

**TOSHIBA**  
*Carrier*



Toshiba Carrier

# VRF u-Series Systems

2024 Catalog | North America

# We Don't Just Build Units. We Help You Engineer Comfort.

Comfort is a system that works for everyone. At Carrier®, we recognize there's no one solution for all HVAC needs, so we've invested in a full range of them, including VRF (Variable Refrigerant Flow) products.

We found a natural partner in Toshiba, the creator of two key technologies for modern VRF. From the world's first inverter in AC in 1980 and the world's first DC twin-rotary compressor in 1993 to the Carrier joint venture in 1999, Toshiba's legacy moves in one direction: forward.

Designed and engineered specifically for North America, Toshiba Carrier VRF joins two early innovators of variable refrigerant flow for one total system solution.

So you can trade the sourcing of components for the design and redesign of indoor comfort systems—for virtually any application or need.

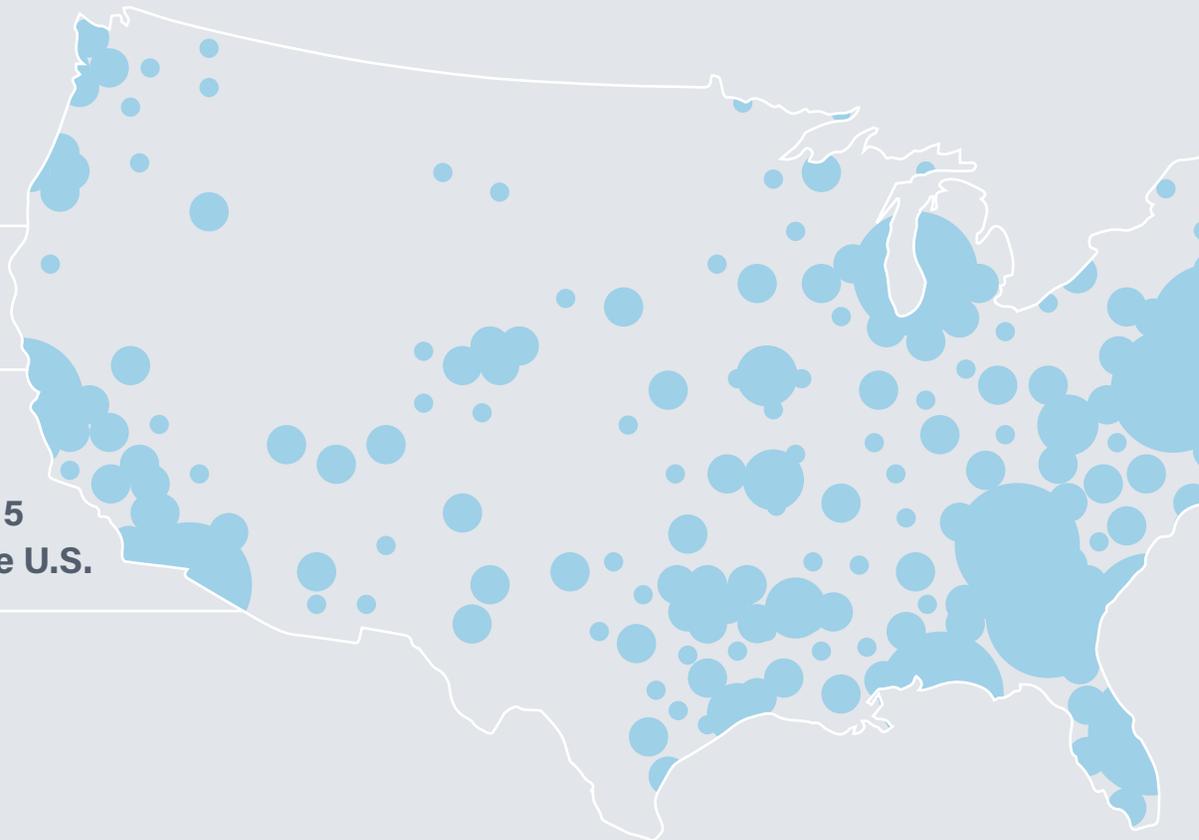
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Engineered for  
**North America**

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Toshiba Carrier VRF systems have been **installed across all 5 climate zones in the U.S.**

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# What Is VRF

## A Comfortable Experience...

VRF systems allow for the heating and/or cooling of individual zones throughout a building, as opposed to an “all or nothing” temperature setting. The system achieves this customization by adjusting the flow of refrigerant to multiple indoor units connected to one operating system.

## ...Without the Waste

VRF offers benefits beyond sophisticated control. It leverages advanced inverter technology to precisely dial compressor speeds as conditions change. The result? Consistent temperatures, no on/off power surges and remarkable energy efficiency.

Unlike other HVAC solutions, VRF is a closed-loop system—not just components. This means you get a complete solution from the start with confidence that everything will work seamlessly together.

Now, we're leveling up VRF with our most innovative models to date. **Introducing Toshiba Carrier VRF u-Series Systems.**

# What's New with u-Series?

## Higher Capacity

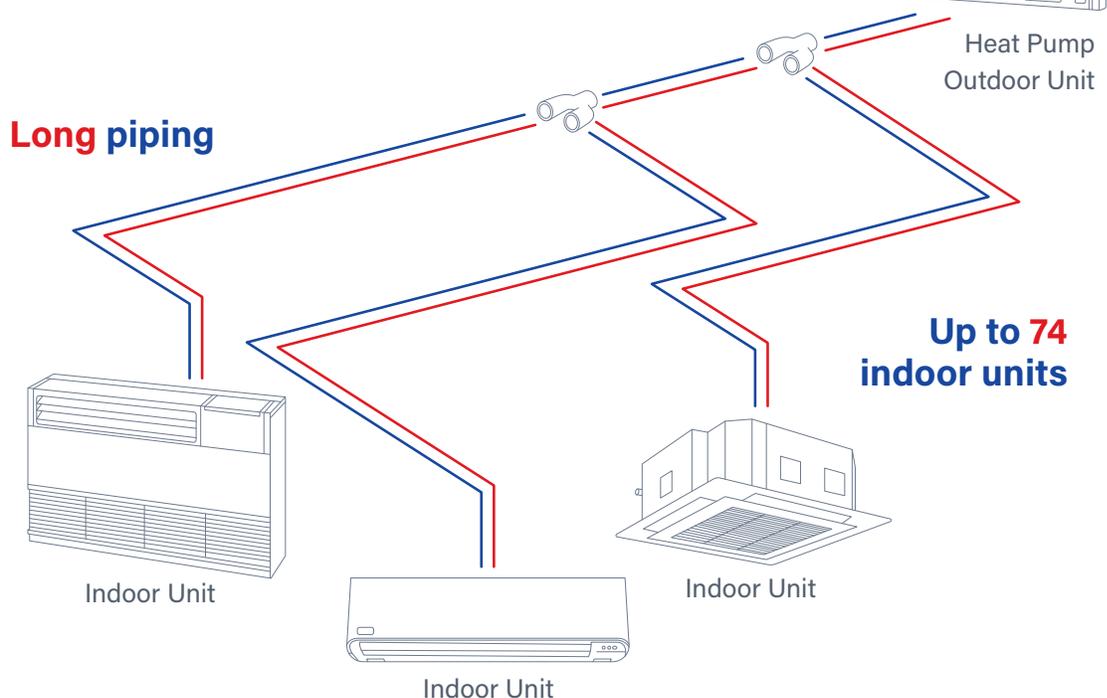
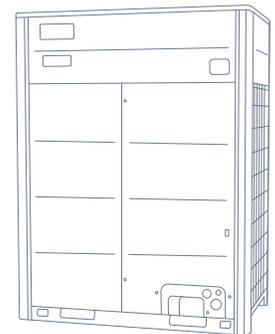
- Connect up to 74 indoor units to one outdoor unit
- Heat recovery systems available in sizes up to 42 tons
- Super-efficient, large heat exchangers

## Expanded Operating Range

- Cool in temperatures up to 125° F
- Heat in temperatures down to -30° F with our Elite Heat unit
- Ensure performance in cold climates with shorter defrost cycles

## Simplified Servicing & Control

- Easily commission and service units with our updated service tool
- Access performance and error reports via smartphone app
- Connect to building management systems for centralized monitoring and control
- Reduce installation costs and refrigerant requirements with a liquid tank-free system
- Reliable operation with improved oil management



# u-Series Systems

## VRF Done Better



### Industry-Leading Efficiency

- **Innovative twin- and triple-rotary compressor** designs boost capacity and energy efficiency while minimizing vibrations
- **16-45% larger heat exchanger surface area** delivers exceptional efficiency and output capacity
- **Ruggedly redesigned high-static pressure propeller fan** allows for increased air flow and static pressure without increasing system noise



### Designed with Sustainability in Mind

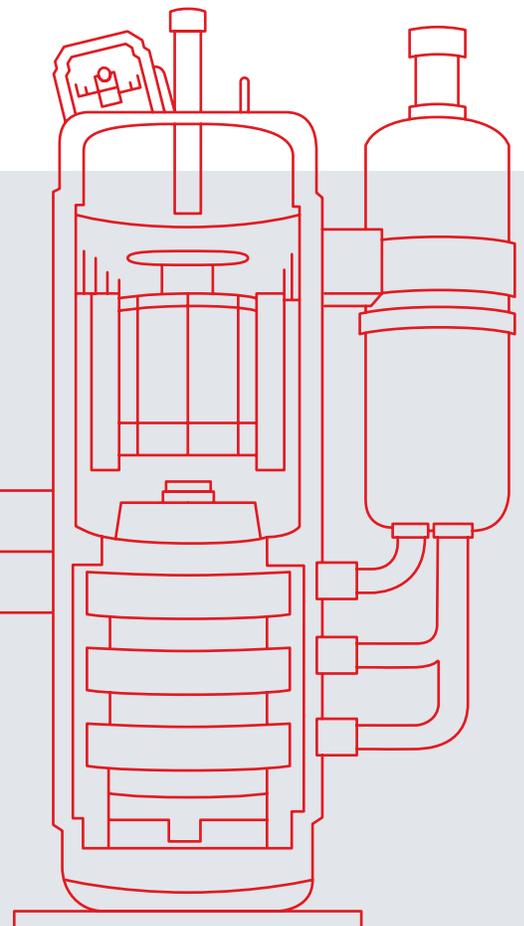
- **Fully electric design** eliminates the need for fossil fuels and reduces carbon emissions
- **Integrated sensors** regulate output based on room size and occupancy to minimize energy waste
- **Reduced refrigerant requirements** enable an eco-friendlier system

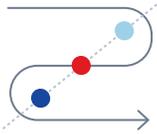
## The New Triple-Rotary Compressor —VRF's Next Big Thing

High capacity

Ultra-efficient

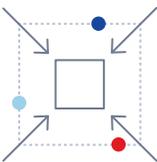
Low vibration





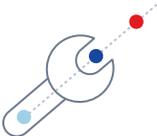
## Flexibility in Design & Comfort Control

- **Longer line lengths, new configuration options and backward compatibility** with all existing Toshiba Carrier VRF units make u-Series systems a perfect fit for any project
- **No or low-profile ductwork** helps you avoid the need for mechanical rooms and allows for higher ceilings
- **Zoned temperature control** with options for simultaneous heating and cooling brings customized comfort to everyone



## Quiet, Space-Saving & Easy to Use

- **Smaller chassis footprint** fits easily in tight spaces
- **Quiet outdoor units** operate at sound levels as low as 52 dB(A)
- **Intuitive touchscreen controls** allow for easy monitoring and management of all zones from one location



## Effortless Maintenance & Management

- **Easy-access components** enable quick servicing of individual zones without impacting the whole system
- **DLC-coated vane** reduces wear on components to extend equipment life
- **Automated management** of refrigerant, oil, defrost cycles and more optimizes system performance
- **Maximize equalizing operation time** by switching off header unit for increased durability

# Systems Engineered to Suit Your Needs



## Heat Pump Zoned Heating or Cooling

Toshiba Carrier VRF u-Series heat pump systems are ideal for large, open spaces with single common zones. Additionally, their compact size makes them a smart choice for a variety of installation sites, like retrofits, remodels or projects with space limitations.



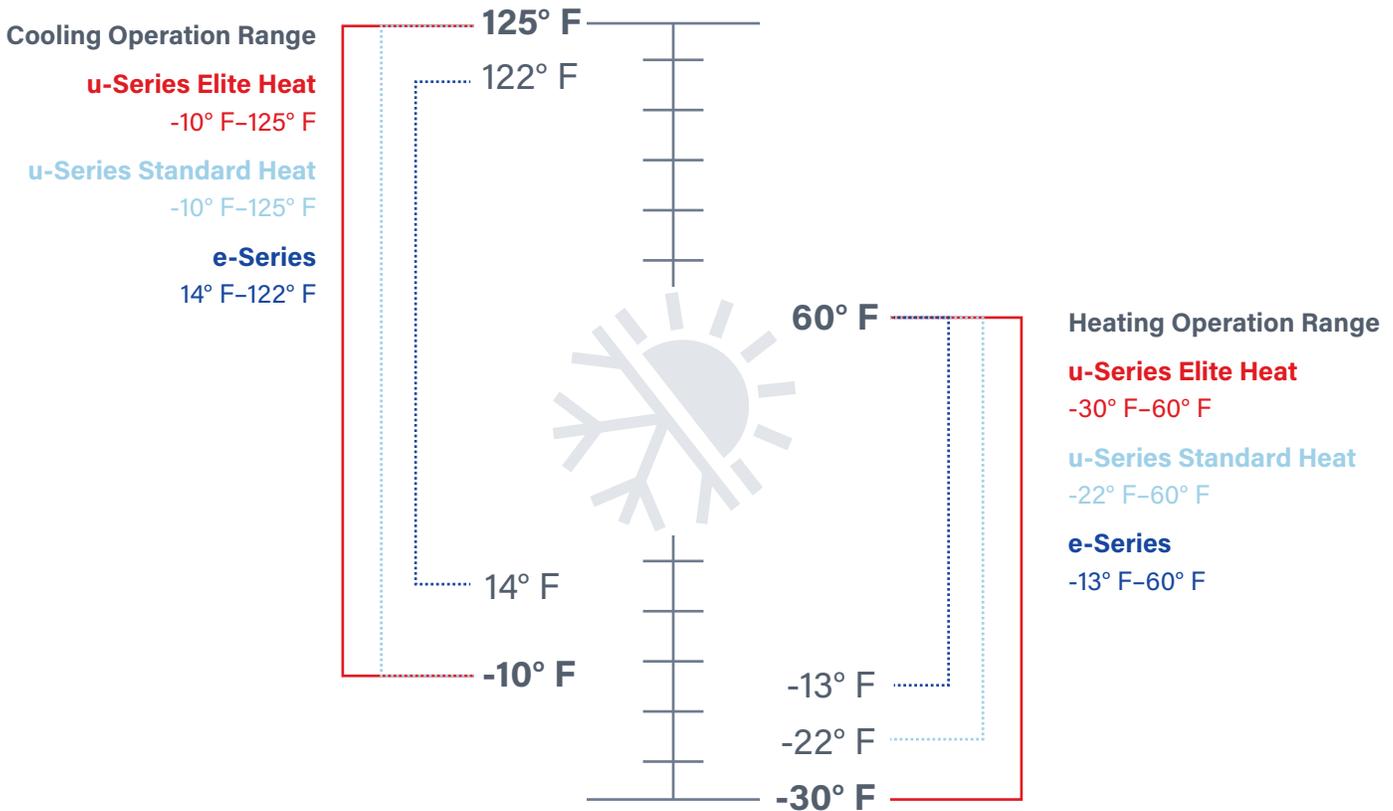
## Heat Recovery Simultaneous Heating & Cooling

u-Series heat recovery options enable concurrent heating and cooling across zones, so they're perfect for multi-room spaces with diverse temperature needs. These cutting-edge systems can even use excess heat from one zone to warm other parts of the building, making them exceptionally efficient. Plus, with one flow selector box for every indoor unit, heat recovery systems allow for longer pipe runs and enhanced design flexibility.

# In Cold Climates, Elite Heat Can't Be Beat

u-Series Elite Heat units are built to perform in even the most extreme climates. Available in sizes up to 30 tons, Elite Heat units feature a redesigned heat exchanger and innovative triple-rotary compressor—for exceptional efficiency and comfort in all seasons.

- Heating performance available down to  $-30^{\circ}\text{F}$
- Increased heating capacity available with an up to 45% larger heat exchanger
- Reach efficiencies of up to 4.12 COP with the new triple-rotary compressor



# Options for Any Application\*

## Office Buildings

u-Series systems are the perfect fit for office spaces of all sizes—providing consistent temperatures with precise monitoring and control from a central location.

### High-Rise Office Buildings

- Air Handling Unit (AHU)
- DX Kit
- High Static Ducted Unit
- Three-Phase Heat Recovery Unit

### Small to Medium-Sized Office Buildings

- 4-Way Cassette
- Concealed Ducted Unit (Medium Static)
- Three-Phase Heat Recovery Unit

## Light Commercial

With compact units, simple maintenance and versatile installation options, u-Series is ideal for projects with space limitations and diverse temperature needs.

### Banks

- Concealed Ducted Unit (Medium Static)
- VRF Rooftop Air Handling Unit
- Single-Phase Heat Pump

### Retail

- Slim Ducted Unit (Low Static)
- VRF Rooftop Air Handling Unit
- Single-Phase Heat Pump

### Restaurants

- Outside Air Unit
- VRF Rooftop Air Handling Unit
- Single-Phase Heat Pump

## Residential

From multi-family developments to high-end homes, u-Series systems deliver customized comfort for every room in an all-electric, energy-saving solution.

### Condos

- Concealed Ducted Unit (Medium Static)
- High Wall
- Single-Phase Heat Recovery Unit

### Apartments

- 1-Way Cassette
- High Wall
- Single-Phase Heat Pump

### High-End Homes

- Floor Console (Recessed)
- Single-Phase Heat Recovery Unit

## Schools

With ultra-efficient outdoor units and air filters in every indoor unit, u-Series systems help schools take advantage of incentive programs and create healthier, eco-friendlier learning environments.

- 4-Way Cassette
- Concealed Ducted Unit (Medium Static)
- Three-Phase Heat Recovery Unit
- VRF Rooftop Air Handling Unit

## Hospitality

u-Series systems help guests enjoy more comfortable stays with whisper-quiet operation, individualized temperature zones and intuitive controls.

- 4-Way Cassette
- Concealed Ducted Unit (Medium Static)
- DX Interface
- Vertical Air Handling Unit (AHU)
- Three-Phase Heat Recovery Unit

\*Applicable units not limited to examples provided on this page



# DX Interface

## Choose a Compatible Outlook

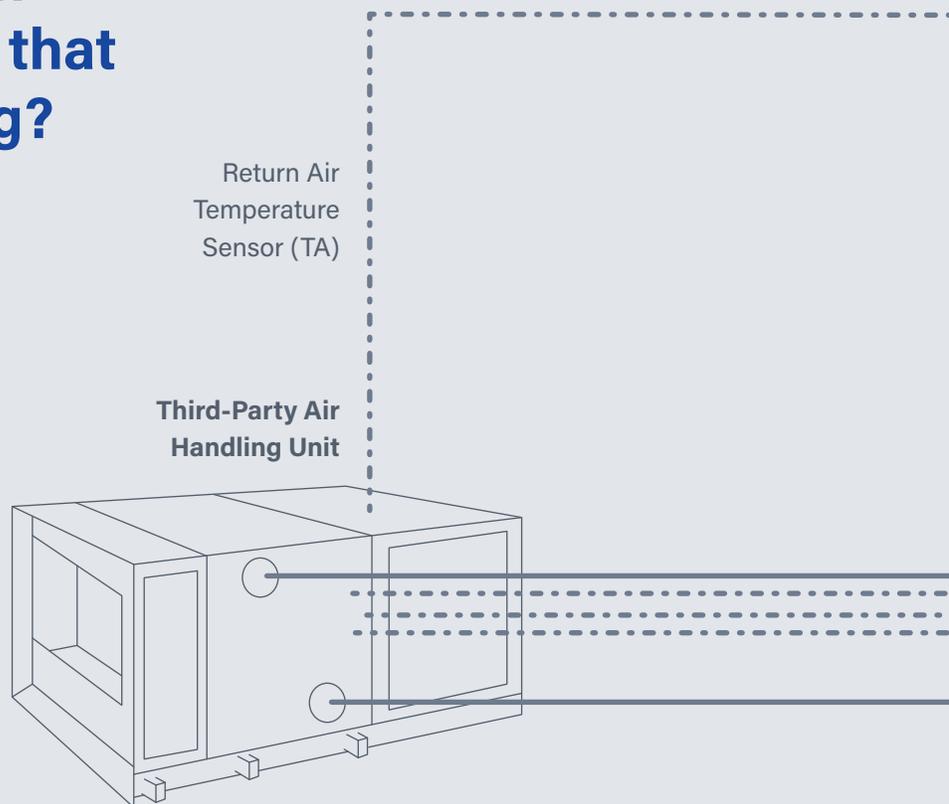
Why manage multiple vendors when you can have VRF technology that works with everything? The DX Interface from Toshiba Carrier makes it easy to integrate market-leading Carrier air handling units (AHUs) into your VRF system for added ventilation. Already using an AHU from another manufacturer? Toshiba Carrier VRF can work with those, too.

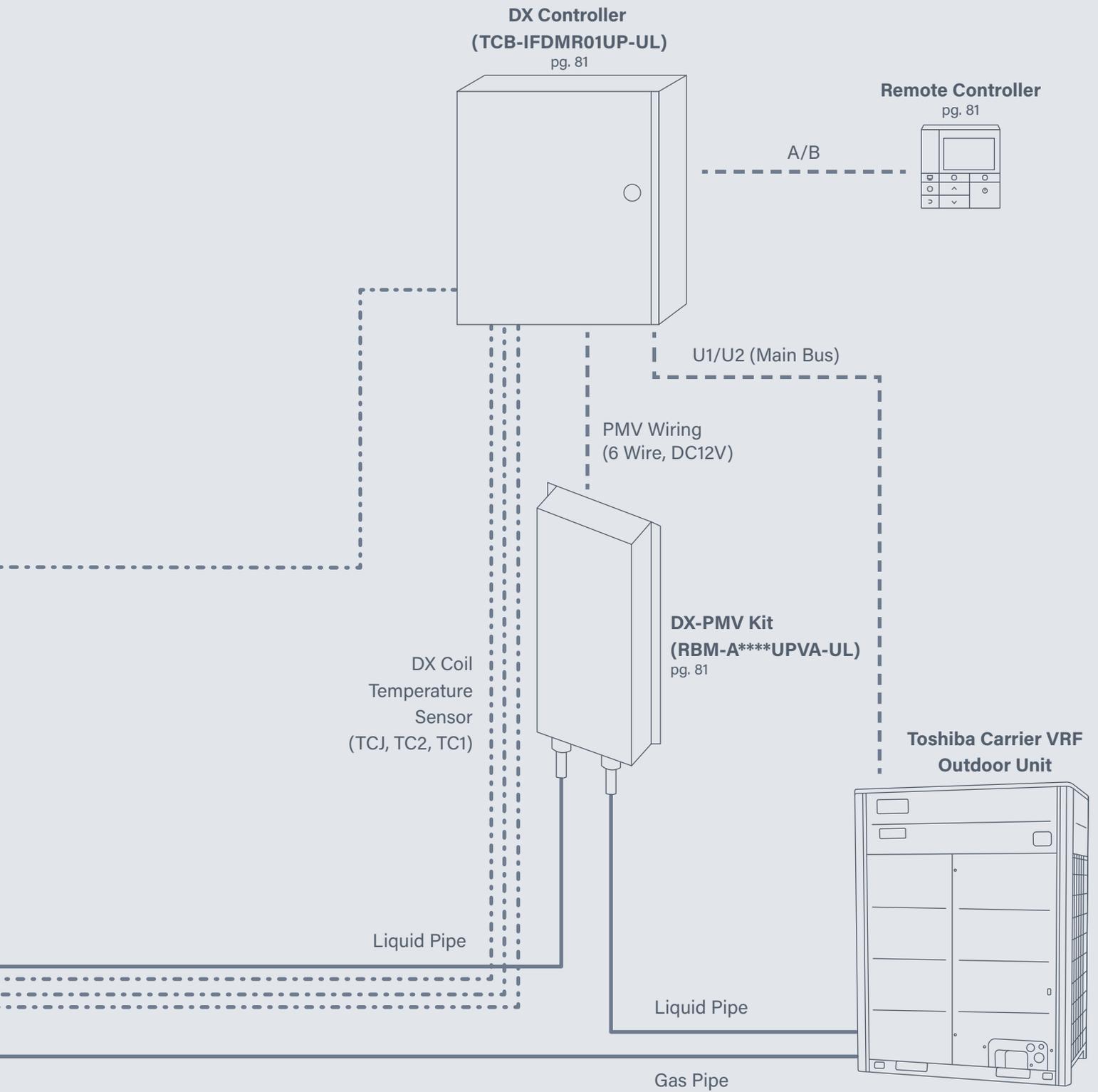
## Why manage multiple vendors when you can have VRF technology that works with everything?

Refrigerant Piping

Control Wiring (Field Installed)

Temperature Sensor Wiring





# Unleash Design Flexibility with Piping That Goes the Distance

As you design, you need flexibility—so our system offers up to 591 feet between indoor units (IDUs) and flow selector boxes, as well as longer piping distance between indoor and outdoor units. And connect up to 74 indoor units to the outdoor unit to satisfy your specific zoning needs.

## e-Series vs. u-Series Heat Pump Connected Capacity Range

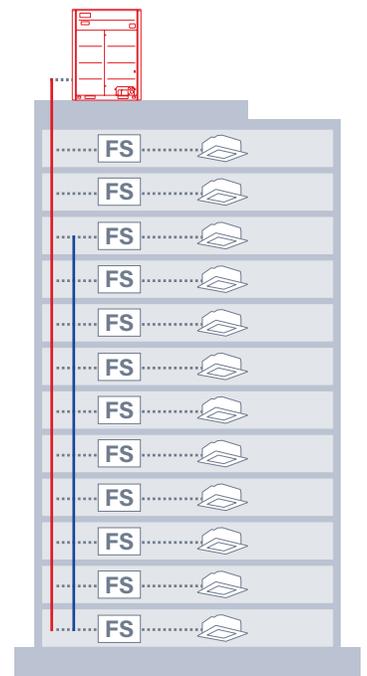
|  |   |   |                  |
|--|---|---|------------------|
|    | <b>e-Series Heat Pumps</b><br>(MMY-MAP***6HT9(6)P-UL) | Maximum height difference between highest and lowest IDU ≤ 49 ft                                | 50%–135%         |
|  |   | Maximum height difference between highest and lowest IDU > 49 ft                                | 50%–105%         |
|  | <b>u-Series Heat Pumps</b><br>(MMY-MUP***1HT9(6)P-UL) | Maximum height difference between highest and lowest IDU ≤ 49 ft (for single module units only) | 50%– <b>200%</b> |
|  |   | Maximum height difference between highest and lowest IDU ≤ 49 ft (for multi-module units)       | 50%– <b>150%</b> |
|  |   | Maximum height difference between highest and lowest IDU > 49 ft                                | 50%–105%         |

## e-Series vs. u-Series Heat Recovery Connected Capacity Range

|   |  |   |                  |
|---|--|---|------------------|
|   | <b>e-Series Heat Recovery</b><br>(MMY-MAP***6FT9(6)P-UL) | Maximum height difference between highest and lowest IDU ≤ 49 ft                                | 50%–135%         |
|   |  | Maximum height difference between highest and lowest IDU > 49 ft                                | 50%–105%         |
|  | <b>u-Series Heat Recovery</b><br>(MMY-MUP***1FT9(6)P-UL) | Maximum height difference between highest and lowest IDU ≤ 49 ft (for single module units only) | 70%– <b>200%</b> |
|   |  | Maximum height difference between highest and lowest IDU ≤ 49 ft (for multi-module units)       | 50%– <b>135%</b> |
|   |  | Maximum height difference between highest and lowest IDU > 49 ft                                | 50%– 135%        |

u-Series Total Length  
**3,937 ft**

e-Series Total Length  
**3,281 ft**



# VPro

Once you've chosen Toshiba Carrier, easily design, lay out and prepare VRF u-Series systems for quote with our online platform, VPro. It's a selection tool designed for engineers with built-in error and performance checks every step of the way. So you enjoy technical support as early as ideation, and issues are consistently easy to identify and resolve.

**VPro puts all your project information in one place, so you can:**

- Enjoy complete project visibility from preliminary design to order release
- Effortlessly collaborate with internal and external stakeholders
- Improve inventory planning to ensure timely project completion
- Seamlessly translate information to third-party platforms like QuotePro
- Conveniently and securely store project information in the cloud

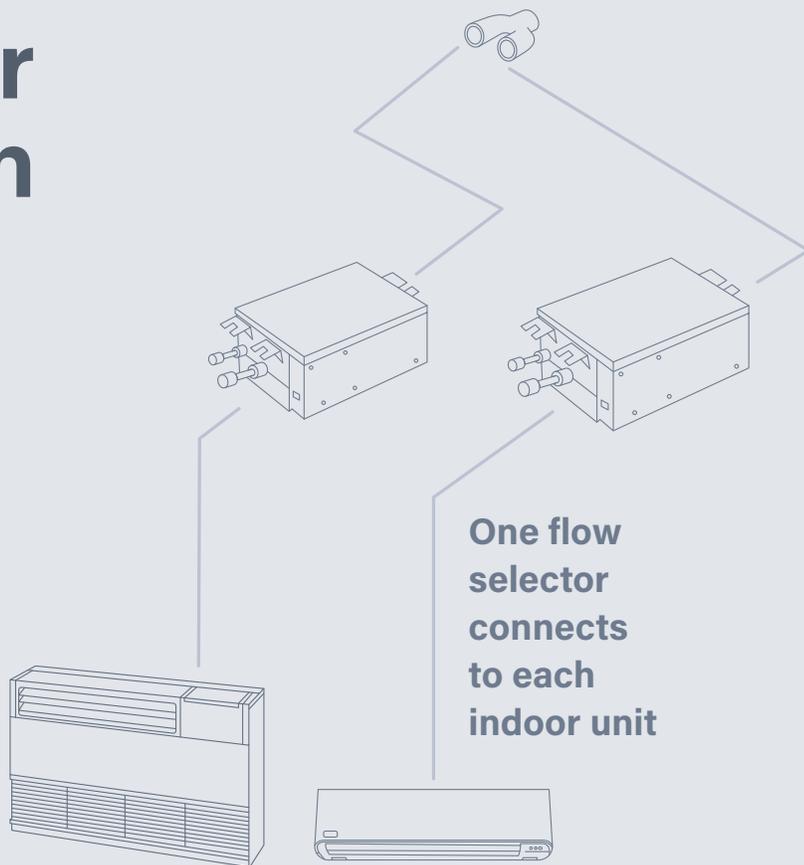
**Contact [vprohelp@carrier.com](mailto:vprohelp@carrier.com) for assistance and support.**

# We're Ready for Implementation When You Are

Carrier didn't invent air—but we did invent modern air conditioning. Our longstanding commitment to convenient comfort is your support system throughout the design and installation of Toshiba Carrier VRF u-Series Systems.

The system itself is intentionally designed to make installation simpler. For example, Toshiba Carrier VRF u-Series heat recovery systems offer both single and multiport flow selector boxes to optimize system configuration, meaning you have more options for outdoor unit placement.

In addition, Carrier offers training and support to help with the build-out of a complete VRF system with everything from specs to start-up to commissioning.



## VRF u-Series Startup Assistance

Our assistance program helps you make sure nothing's in the way of a successful start to your heating and cooling operations. Post-installation, but before your system is commissioned or operational, a factory-authorized Carrier HVAC Technician works on site during normal business hours to assess and anticipate any issues with your VRF installation.

### At a minimum, the technician will do the following:

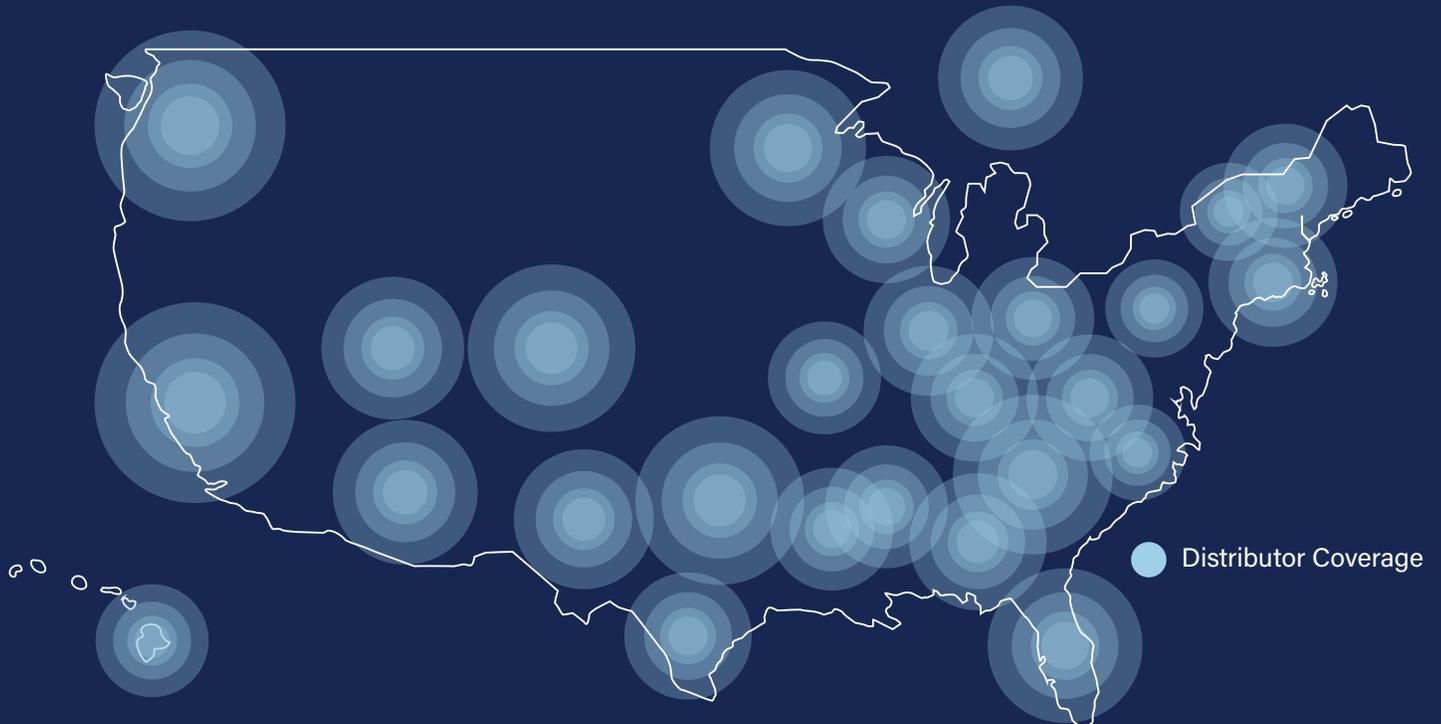
- Reference engineering and installation manuals to identify and document installation issues that may impact the startup
- Utilize service software to communicate with the system and collect real runtime data for a fixed period of time to ensure optimum operation at the time of commissioning
- Verify operating conditions of other system components
- Conduct on-site training for owner and end-user personnel

At the conclusion of the engagement, the technician will create and deliver a post-visit Startup Report to the distributor covering all assessment insights.

**Please contact  
[vrfstartup@carrier.com](mailto:vrfstartup@carrier.com)  
for factory  
startup assistance.**

# Your VRF u-Series System Is a Distributor Away

Toshiba Carrier offers a single-source solution through a nationwide network of distributors. It's as easy to find us as it is to work with us. We serve heating and cooling needs in all regions with many experienced, longstanding distributor relationships. Our distributors combine expert product knowledge with comprehensive training, so you can make confident choices when it comes to Toshiba Carrier VRF u-Series Systems.



The results speak for themselves:

Our network of experts have successfully installed VRF systems in a wide range of regions and climate zones. **Will yours be next?**

# THREE- PHASE OUTDOOR UNITS

# VRF u-Series Three-Phase Outdoor Units Overview



| Tonnage | Heat Pump   |          |              | Heat Recovery* |          |              |
|---------|-------------|----------|--------------|----------------|----------|--------------|
|         | Three-phase |          |              | Three-phase    |          |              |
|         | 1 Module    | 2 Module | 3 Module     | 1 Module       | 2 Module | 3 Module     |
| 3       |             |          |              |                |          |              |
| 4       |             |          |              |                |          |              |
| 5       |             |          |              |                |          |              |
| 6       | 6           |          |              | 6              |          |              |
| 8       | 8           |          |              | 8              |          |              |
| 10      | 10          |          |              | 10             |          |              |
| 12      | 12          |          |              | 12             |          |              |
| 14      | 14          |          |              | 14             |          |              |
| 16      | 16          | 8 + 8    |              | 16             | 8 + 8    |              |
| 18      |             | 12 + 6   |              |                | 12 + 6   |              |
| 20      |             | 12 + 8   |              |                | 12 + 8   |              |
| 22      |             | 14 + 8   |              |                | 14 + 8   |              |
| 24      |             | 12 + 12  |              |                | 12 + 12  |              |
| 26      |             | 14 + 12  |              |                | 14 + 12  |              |
| 28      |             | 14 + 14  |              |                | 14 + 14  |              |
| 30      |             |          | 14 + 8 + 8   |                |          | 14 + 8 + 8   |
| 32      |             |          | 12 + 12 + 8  |                |          | 12 + 12 + 8  |
| 34      |             |          | 14 + 12 + 8  |                |          | 14 + 12 + 8  |
| 36      |             |          | 14 + 14 + 8  |                |          | 14 + 14 + 8  |
| 38      |             |          | 14 + 14 + 10 |                |          | 14 + 12 + 12 |
| 40      |             |          | 14 + 14 + 12 |                |          | 14 + 14 + 12 |
| 42      |             |          |              |                |          | 14 + 14 + 14 |



| Tonnage | "Elite Heat" Heat Pump |          |              | "Elite Heat" Heat Recovery* |          |              |
|---------|------------------------|----------|--------------|-----------------------------|----------|--------------|
|         | Three-phase            |          |              | Three-phase                 |          |              |
|         | 1 Module               | 2 Module | 3 Module     | 1 Module                    | 2 Module | 3 Module     |
| 6       | 6                      |          |              | 6                           |          |              |
| 8       | 8                      |          |              | 8                           |          |              |
| 10      | 10                     |          |              | 10                          |          |              |
| 12      |                        | 6 + 6    |              |                             | 6 + 6    |              |
| 16      |                        | 8 + 8    |              |                             | 8 + 8    |              |
| 20      |                        | 10 + 10  |              |                             | 10 + 10  |              |
| 24      |                        |          | 8 + 8 + 8    |                             |          | 8 + 8 + 8    |
| 30      |                        |          | 10 + 10 + 10 |                             |          | 10 + 10 + 10 |

\*For use with single port flow selector (FS) box and multiport FX box on page 57.

# u-Series Heat Pump

## MMYH-u

### 208-230V / Three-Phase / 60Hz



| Standard Model                           |  |                                   |                                   | MUP0721HT9P-UL                | MUP0961HT9P-UL | MUP1201HT9P-UL | MUP1441HT9P-UL | MUP1681HT9P-UL |
|--|--|-----------------------------------|-----------------------------------|-------------------------------|----------------|----------------|----------------|----------------|
| Model Name                               |  | MMY-                              |                                   |                               |                |                |                |                |
| Power Supply                             |  | Nominal Voltage                   | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz |                |                |                |                |
|  |  | Voltage Range                     | V                                 | 187-253V                      |                |                |                |                |
| Cooling                                  |  | Nominal Capacity (*1)             | kBTU/h                            | 72.0                          | 96.0           | 120.0          | 144.0          | 168.0          |
|  |  | Rated Capacity (*1)               | kBTU/h                            | 69.0                          | 92.0           | 114.0          | 138.0          | 160.0          |
| Heating                                  |  | Nominal Capacity (*1)             | kBTU/h                            | 81.0                          | 108.0          | 135.0          | 162.0          | 189.0          |
|  |  | Rated Capacity (*1)               | kBTU/h                            | 77.0                          | 103.0          | 129.0          | 154.0          | 180.0          |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 4.99                          | 7.60           | 10.00          | 12.10          | 13.70          |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 13.80                         | 12.10          | 11.30          |                | 11.60          |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 4.90                          | 6.96           | 8.99           | 11.17          | 14.22          |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 4.60                          | 4.30           | 4.20           | 4.00           | 3.70           |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 4.84                          | 6.83           | 8.66           | 10.55          | 13.53          |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 14.20                         | 13.40          | 13.10          | 13.00          | 11.80          |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 4.99                          | 7.04           | 8.79           | 10.84          | 13.26          |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 4.52                          | 4.28           | 4.30           | 4.16           | 3.97           |
| Starting Current                         |  |                                   | A                                 | Soft Start                    |                |                |                |                |
| Dimensions                               | Unit                                       | Height                            | in                                | 66.5                          |                |                |                |                |
|  |  | Width                             | in                                | 39.6                          |                | 51.4           |                |                |
|  |  | Depth                             | in                                | 31.1                          |                |                |                |                |
| Weight                                   | Unit                                       | lbs                               | 521.0                             |                               | 725.0          |                | 778.0          |                |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   |                                   | Twin                          |                | Triple         |                |                |
|  | Motor Output                               | kW                                | 4.1                               | 6.2                           | 8.0            | 9.7            | 12.1           |                |
| Fan Unit                                 | Type                                       |                                   |                                   | Propeller Fan                 |                |                |                |                |
|  | Motor Output                               | kW                                | 0.43 x 1                          | 0.59 x 1                      | 0.33 x 2       | 0.43 x 2       | 0.73 x 2       |                |
|  | Air Volume                                 | cfm                               | 5,650                             | 6,180                         | 7,770          | 8,650          | 8,670          |                |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.32                              |                               |                |                |                |                |
| Heat Exchanger                           |  |                                   | Finned Tube                       |                               |                |                |                |                |
| Refrigerant                              | Name                                       |                                   |                                   | R410A                         |                |                |                |                |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs                               | 13.2                          |                | 19.8           |                |                |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 60                   |                               |                |                |                |                |
| Protective Devices                       |  |                                   | (*5)                              |                               |                |                |                |                |
| Power Supply Wiring                      | MCA  | A                                 | 36.4                              | 36.6                          | 50.5           | 51.5           | 57.4           |                |
|  | MOCP (*6)                                  | A                                 | 40.0                              | 45.0                          | 60.0           | 70.0           | 80.0           |                |
| Piping Connections                       | Gas  | Type                              | Brazeing                          |                               |                |                |                |                |
|  |  | Diameter                          | in                                | 3/4                           | 7/8            | 1-1/8          |                |                |
|  | Liquid                                     | Type                              | Brazeing                          |                               |                |                |                |                |
|  |  | Diameter                          | in                                | 1/2                           |                | 5/8            |                |                |
| Furthest Piping Length                   |  | Equivalent Length                 | ft                                | 689.0                         |                |                |                |                |
|  |  | Real Length                       | ft                                | 591.0                         |                |                |                |                |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 70~200                            |                               |                |                |                |                |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 144                               | 192                           | 240            | 288            | 336            |                |
|  | Maximum Number of Indoor Units             |                                   | 12                                | 17                            | 21             | 25             | 30             |                |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 53.0                              | 56.0                          | 58.0           | 61.0           |                |                |
|  | Heating                                    | dB(A)                             | 56.0                              | 59.0                          | 61.0           | 64.0           | 67.0           |                |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |                               |                |                |                |                |
|  | Heating                                    | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)  |                               |                |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 208-230V / Three-Phase / 60Hz



| Standard Model                           |  |                                   |                                   | UP1921HT9P-UL  |                | UP2161HT9P-UL  |                | UP2401HT9P-UL  |                | UP2641HT9P-UL  |          |  |
|--|--|-----------------------------------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|--|
| Model Name                               |  | MMY-                              |                                   |                |                |                |                |                |                |                |          |  |
| Outdoor Unit Model Name                  |  | MMY-                              | MUP0961HT9P-UL                    | MUP0961HT9P-UL | MUP1441HT9P-UL | MUP0721HT9P-UL | MUP1441HT9P-UL | MUP0961HT9P-UL | MUP1681HT9P-UL | MUP0961HT9P-UL |          |  |
| Power Supply                             |  | Nominal Voltage                   | 208-230V / Three-Phase / 60Hz     |                |                |                |                |                |                |                |          |  |
|  |  | Voltage Range                     | 187-253V                          |                |                |                |                |                |                |                |          |  |
| Cooling                                  |  | Nominal Capacity (*1)             | 192.0                             |                | 216.0          |                | 240.0          |                | 264.0          |                |          |  |
|  |  | Rated Capacity (*1)               | 184.0                             |                | 206.0          |                | 230.0          |                | 252.0          |                |          |  |
| Heating                                  |  | Nominal Capacity (*1)             | 216.0                             |                | 243.0          |                | 270.0          |                | 297.0          |                |          |  |
|  |  | Rated Capacity (*1)               | 206.0                             |                | 232.0          |                | 258.0          |                | 284.0          |                |          |  |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | 17.40                             |                | 18.50          |                | 21.80          |                | 23.90          |                |          |  |
|  |  | Rated EER (*1) (*2)               | 10.50                             |                | 11.10          |                | 10.50          |                | 10.50          |                |          |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | 13.73                             |                | 16.39          |                | 18.39          |                | 21.70          |                |          |  |
|  |  | Rated COP (*1) (*2)               | 4.40                              |                | 4.10           |                | 4.10           |                | 3.80           |                |          |  |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | 14.70                             |                | 16.00          |                | 18.48          |                | 22.23          |                |          |  |
|  |  | Rated EER (*1) (*2)               | 12.50                             |                | 12.80          |                | 12.40          |                | 11.30          |                |          |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | 13.51                             |                | 15.20          |                | 17.43          |                | 19.55          |                |          |  |
|  |  | Rated COP (*1) (*2)               | 4.46                              |                | 4.47           |                | 4.33           |                | 4.25           |                |          |  |
| Starting Current                         |  | A                                 | Soft Start                        |                |                |                |                |                |                |                |          |  |
| Dimensions                               | Unit                                       | Height                            | 66.5                              |                |                |                |                |                |                |                |          |  |
|  |  | Width                             | 39.6                              |                | 51.4           |                | 39.6           |                | 51.4           |                | 39.6     |  |
|  |  | Depth                             | 31.1                              |                |                |                |                |                |                |                |          |  |
| Weight                                   | Unit                                       | lbs                               | 521.0                             |                | 725.0          |                | 521.0          |                | 778.0          |                | 521.0    |  |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Twin                              |                | Triple         |                | Twin           |                | Triple         |                | Twin     |  |
|  | Motor Output                               |                                   | 6.2                               |                | 9.7            |                | 4.1            |                | 9.7            |                | 6.2      |  |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan                     |                |                |                |                |                |                |                |          |  |
|  | Motor Output                               |                                   | 0.59 x 1                          |                | 0.43 x 2       |                | 0.43 x 1       |                | 0.43 x 2       |                | 0.59 x 1 |  |
|  | Air Volume                                 |                                   | 6,180                             |                | 8,650          |                | 5,650          |                | 8,650          |                | 6,180    |  |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.32                              |                |                |                |                |                |                |                |          |  |
| Heat Exchanger                           |  | Finned Tube                       |                                   |                |                |                |                |                |                |                |          |  |
| Refrigerant                              | Name                                       |                                   | R410A                             |                |                |                |                |                |                |                |          |  |
|  | Charged Refrigerant Amount (*4)            |                                   | 13.2                              |                | 19.8           |                | 13.2           |                | 19.8           |                | 13.2     |  |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                  |                |                |                |                |                |                |                |          |  |
| Protective Devices                       |  | (*5)                              |                                   |                |                |                |                |                |                |                |          |  |
| Power Supply Wiring                      | MCA  | A                                 | 36.6                              |                | 51.5           |                | 36.4           |                | 51.5           |                | 36.6     |  |
|  | MOCP (*6)                                  | A                                 | 45.0                              |                | 70.0           |                | 40.0           |                | 70.0           |                | 45.0     |  |
| Piping Connections                       | Gas  | Type                              | Brazing                           |                |                |                |                |                |                |                |          |  |
|  |  | Diameter                          | 7/8                               |                | 1-1/8          |                | 3/4            |                | 1-1/8          |                | 7/8      |  |
|  | Liquid                                     | Type                              | Brazing                           |                |                |                |                |                |                |                |          |  |
|  |  | Diameter                          | 1/2                               |                | 5/8            |                | 1/2            |                | 5/8            |                | 1/2      |  |
| Furthest Piping Length                   | Equivalent Length                          |                                   | 738.0                             |                |                |                |                |                |                |                |          |  |
|  | Real Length                                |                                   | 607.0                             |                |                |                |                |                |                |                |          |  |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 50~150                            |                |                |                |                |                |                |                |          |  |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 288                               |                | 324            |                | 360            |                | 396            |                |          |  |
|  | Maximum Number of Indoor Units             |                                   | 34                                |                | 38             |                | 43             |                | 47             |                |          |  |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 59.0                              |                | 61.6           |                | 62.2           |                | 62.2           |                |          |  |
|  | Heating                                    | dB(A)                             | 62.0                              |                | 64.6           |                | 65.2           |                | 67.6           |                |          |  |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |                |                |                |                |          |  |
|  | Heating                                    | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)  |                |                |                |                |                |                |                |          |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 208-230V / Three-Phase / 60Hz



| Standard Model                           |  |                                   |                                   |                |                |          |
|--|--|-----------------------------------|-----------------------------------|----------------|----------------|----------|
| Model Name                               |  | MMY-                              | UP2881HT9P-UL                     | UP3121HT9P-UL  | UP3361HT9P-UL  |          |
| Outdoor Unit Model Name                  |  | MMY-                              | MUP1441HT9P-UL                    | MUP1441HT9P-UL | MUP1681HT9P-UL |          |
| Power Supply                             | Nominal Voltage                            | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz     |                |                |          |
|  | Voltage Range                              | V                                 | 187-253V                          |                |                |          |
| Cooling                                  | Nominal Capacity (*1)                      | kBTU/h                            | 288.0                             | 312.0          | 336.0          |          |
|  | Rated Capacity (*1)                        | kBTU/h                            | 276.0                             | 298.0          | 320.0          |          |
| Heating                                  | Nominal Capacity (*1)                      | kBTU/h                            | 324.0                             | 351.0          | 378.0          |          |
|  | Rated Capacity (*1)                        | kBTU/h                            | 308.0                             | 334.0          | 360.0          |          |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 27.10          | 30.40          | 29.40    |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 10.20          | 9.81           | 10.80    |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 24.33          | 26.97          | 29.08    |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 3.70           | 3.60           |          |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 23.04          | 26.96          | 29.00    |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 11.92          | 11.05          | 11.00    |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 21.17          | 24.65          | 27.79    |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 4.26           | 3.97           | 3.83     |
| Starting Current                         |  | A                                 | Soft Start                        |                |                |          |
| Dimensions                               | Unit                                       | Height                            | in                                | 66.5           |                |          |
|  |  | Width                             | in                                | 51.4           |                |          |
|  |  | Depth                             | in                                | 31.1           |                |          |
| Weight                                   | Unit                                       | lbs                               | 725.0                             | 778.0          | 725.0          | 778.0    |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Triple                            |                |                |          |
|  | Motor Output                               | kW                                | 9.7                               | 12.1           | 9.7            | 12.1     |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan                     |                |                |          |
|  | Motor Output                               | kW                                | 0.43 x 2                          | 0.73 x 2       | 0.43 x 2       | 0.73 x 2 |
|  | Air Volume                                 | cfm                               | 8,650                             | 8,670          | 8,650          | 8,670    |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.32                              |                |                |          |
| Heat Exchanger                           |  | Finned Tube                       |                                   |                |                |          |
| Refrigerant                              | Name                                       |                                   | R410A                             |                |                |          |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs                               | 19.8           |                |          |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                  |                |                |          |
| Protective Devices                       |  | (*5)                              |                                   |                |                |          |
| Power Supply Wiring                      | MCA  | A                                 | 51.5                              | 57.4           | 51.5           | 57.4     |
|  | MOCP (*6)                                  | A                                 | 70.0                              | 80.0           | 70.0           | 80.0     |
| Piping Connections                       | Gas  | Type                              | Brazing                           |                |                |          |
|  |  | Diameter                          | in                                | 1-1/8          |                |          |
|  | Liquid                                     | Type                              | Brazing                           |                |                |          |
|  |  | Diameter                          | in                                | 5/8            |                |          |
| Furthest Piping Length                   | Equivalent Length                          | ft                                | 738.0                             |                |                |          |
|  | Real Length                                | ft                                | 607.0                             |                |                |          |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 50~150                            |                |                |          |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 432                               | 468            | 504            |          |
|  | Maximum Number of Indoor Units             |                                   | 51                                | 56             | 60             |          |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 64.0                              |                |                |          |
|  | Heating                                    | dB(A)                             | 67.0                              | 68.8           | 70.0           |          |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |          |
|  | Heating                                    | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)  |                |                |          |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 208-230V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  | UP3601HT9P-UL    |                                   |                | UP3841HT9P-UL  |                |                | UP4081HT9P-UL  |                |          |          |          |      |
|--|---|-----------------------------------|--|------------------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|----------|----------|------|
| Model Name                               |   | MMY-                              | UP3601HT9P-UL                              |                  |                                   | UP3841HT9P-UL  |                |                | UP4081HT9P-UL  |                |                |          |          |          |      |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681HT9P-UL                             | MUP0961HT9P-UL   | MUP0961HT9P-UL                    | MUP1441HT9P-UL | MUP1441HT9P-UL | MUP0961HT9P-UL | MUP1681HT9P-UL | MUP1441HT9P-UL | MUP0961HT9P-UL |          |          |          |      |
| Power Supply                             |   | Nominal Voltage                   | 208-230V / Three-Phase / 60Hz              |                  |                                   |                |                |                |                |                |                |          |          |          |      |
|  |   | Voltage Range                     | 187-253V                                   |                  |                                   |                |                |                |                |                |                |          |          |          |      |
| Cooling                                  |   | Nominal Capacity (*1)             | 360.0                                      |                  |                                   | 384.0          |                |                | 408.0          |                |                |          |          |          |      |
|  |   | Rated Capacity (*1)               | 342.0                                      |                  |                                   | 366.0          |                |                | 390.0          |                |                |          |          |          |      |
| Heating                                  |   | Nominal Capacity (*1)             | 405.0                                      |                  |                                   | 432.0          |                |                | 459.0          |                |                |          |          |          |      |
|  |   | Rated Capacity (*1)               | 386.0                                      |                  |                                   | 412.0          |                |                | 438.0          |                |                |          |          |          |      |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | 34.70                                      |                  |                                   | 37.30          |                |                | 38.80          |                |                |          |          |          |      |
|  |   | Rated EER (*1) (*2)               | 9.85                                       |                  |                                   | 9.81           |                |                | 10.03          |                |                |          |          |          |      |
|  | Heating                                   | Rated power consumption (*1) (*2) | 32.08                                      |                  |                                   | 34.07          |                |                | 37.48          |                |                |          |          |          |      |
|  |   | Rated COP (*1) (*2)               | 3.50                                       |                  |                                   | 3.40           |                |                | 3.40           |                |                |          |          |          |      |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | 27.52                                      |                  |                                   | 29.79          |                |                | 33.78          |                |                |          |          |          |      |
|  |   | Rated EER (*1) (*2)               | 12.42                                      |                  |                                   | 12.28          |                |                | 11.54          |                |                |          |          |          |      |
|  | Heating                                   | Rated power consumption (*1) (*2) | 29.30                                      |                  |                                   | 31.22          |                |                | 34.26          |                |                |          |          |          |      |
|  |   | Rated COP (*1) (*2)               | 3.86                                       |                  |                                   | 3.74           |                |                | 3.74           |                |                |          |          |          |      |
| Starting Current                         |   | A                                 | Soft Start                                 |                  |                                   |                |                |                |                |                |                |          |          |          |      |
| Dimensions                               | Unit                                      | Height                            | 66.5                                       |                  |                                   |                |                |                |                |                |                |          |          |          |      |
|  |   | Width                             | 51.4                                       | 39.6             |                                   |                | 51.4           | 39.6           |                |                | 51.4           | 39.6     |          |          |      |
|  |   | Depth                             | 31.1                                       |                  |                                   |                |                |                |                |                |                |          |          |          |      |
| Weight                                   | Unit                                      | lbs                               | 778.0                                      | 521.0            |                                   |                | 725.0          | 521.0          |                |                | 778.0          | 725.0    | 521.0    |          |      |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor | Triple           | Twin                              |                |                | Triple         | Twin           |                |                | Triple   | Twin     |          |      |
| Fan Unit                                 | Motor Output                              |                                   | kW   |                  | 12.1                              | 6.2            |                |                | 9.7            | 6.2            |                |          | 12.1     | 9.7      | 6.2  |
|  | Type                                      | Propeller Fan                     |  |                  |                                   |                |                |                |                |                |                |          |          |          |      |
|  | Motor Output                              | kW                                |  | 0.73 x 2         | 0.59 x 1                          |                |                | 0.43 x 2       | 0.59 x 1       |                |                | 0.73 x 2 | 0.43 x 2 | 0.59 x 1 |      |
| Air Volume                               |   | cfm                               |  | 8,670            | 6,180                             |                |                | 8,650          | 6,180          |                |                | 8,670    | 8,650    | 6,180    |      |
| Maximum External Static Pressure (*3)    |   | in H2O                            |  | 0.32             |                                   |                |                |                |                |                |                |          |          |          |      |
| Heat Exchanger                           |   | Finned Tube                       |  |                  |                                   |                |                |                |                |                |                |          |          |          |      |
| Refrigerant                              |   | R410A                             |  |                  |                                   |                |                |                |                |                |                |          |          |          |      |
| Name                                     |   |                                   |  |                  |                                   |                |                |                |                |                |                |          |          |          |      |
| Charged Refrigerant Amount (*4)          |   | lbs                               |  | 19.8             | 13.2                              |                |                | 19.8           | 13.2           |                |                | 19.8     | 13.2     |          |      |
| High-Pressure Switch (Protective Device) |   | psi                               |  | ON: 464 OFF: 601 |                                   |                |                |                |                |                |                |          |          |          |      |
| Protective Devices                       |   | (*5)                              |  |                  |                                   |                |                |                |                |                |                |          |          |          |      |
| Power Supply Wiring                      |   | MCA                               | A  |                  | 57.4                              | 36.6           |                |                | 51.5           | 36.6           |                |          | 57.4     | 51.5     | 36.6 |
|  |   | MOCP (*6)                         | A  |                  | 80.0                              | 45.0           |                |                | 70.0           | 45.0           |                |          | 80.0     | 70.0     | 45.0 |
| Piping Connections                       | Gas                                       | Type                              | Brazeing                                   |                  |                                   |                |                |                |                |                |                |          |          |          |      |
|  |   | Diameter                          | in   |                  | 1-1/8                             | 7/8            |                |                | 1-1/8          | 7/8            |                |          | 1-1/8    | 7/8      |      |
|  | Liquid                                    | Type                              | Brazeing                                   |                  |                                   |                |                |                |                |                |                |          |          |          |      |
|  |   | Diameter                          | in   |                  | 5/8                               | 1/2            |                |                | 5/8            | 1/2            |                |          | 5/8      | 1/2      |      |
| Furthest Piping Length                   |   | Equivalent Length                 | ft   |                  |                                   |                |                |                |                |                |                | 771.0    |          |          |      |
|  |   | Real Length                       | ft   |                  |                                   |                |                |                |                |                |                | 623.0    |          |          |      |
| Indoor Units                             | Total Capacity                            |                                   | % of Outdoor Unit Capacity (*7)            |                  | %                                 |                |                |                |                |                |                |          |          | 50~150   |      |
|  | Maximum Capacity of Combined Indoor Units |                                   | 540  |                  |                                   | 576            |                |                | 612            |                |                | 612      |          |          |      |
|  | Maximum Number of Indoor Units            |                                   | 64   |                  |                                   | 69             |                |                | 70             |                |                | 70       |          |          |      |
| Sound Pressure Level                     |   | Cooling                           | dB(A)                                      |                  | 63.1                              |                |                | 64.6           |                |                | 69.2           |          |          |          |      |
|  |   | Heating                           | dB(A)                                      |                  | 68.2                              |                |                | 67.6           |                |                | 69.2           |          |          |          |      |
| Operation Temperature Range              |   | Cooling                           | ° F DB                                     |                  | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |                |                |                |          |          |          |      |
|  |   | Heating                           | ° F WB                                     |                  | -22.0 to 60.0 (-30.0 to 15.5° C)  |                |                |                |                |                |                |          |          |          |      |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 208-230V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  | UP4321HT9P-UL  |                |                | UP4561HT9P-UL  |                |                | UP4801HT9P-UL  |                |  |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               |   | MMY-                              | UP4321HT9P-UL                              |                |                | UP4561HT9P-UL  |                |                | UP4801HT9P-UL  |                |                |  |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681HT9P-UL                             | MUP1681HT9P-UL | MUP0961HT9P-UL | MUP1681HT9P-UL | MUP1681HT9P-UL | MUP1201HT9P-UL | MUP1681HT9P-UL | MUP1681HT9P-UL | MUP1441HT9P-UL |  |
| Power Supply                             |   | Nominal Voltage                   | 208-230V / Three-Phase / 60Hz              |                |                |                |                |                |                |                |                |  |
|  |   | Voltage Range                     | 187-253V                                   |                |                |                |                |                |                |                |                |  |
| Cooling                                  |   | Nominal Capacity (*1)             | 432.0                                      |                |                | 456.0          |                |                | 480.0          |                |                |  |
|  |   | Rated Capacity (*1)               | 412.0                                      |                |                | 434.0          |                |                | 456.0          |                |                |  |
| Heating                                  |   | Nominal Capacity (*1)             | 486.0                                      |                |                | 513.0          |                |                | 540.0          |                |                |  |
|  |   | Rated Capacity (*1)               | 462.0                                      |                |                | 488.0          |                |                | 514.0          |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | 40.10                                      |                |                | 43.20          |                |                | 44.50          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 10.20                                      |                |                | 10.04          |                |                | 10.23          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 39.60                                      |                |                | 42.51          |                |                | 45.88          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.40                                       |                |                | 3.40           |                |                | 3.3            |                |                |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | 37.78                                      |                |                | 41.72          |                |                | 44.04          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 10.90                                      |                |                | 10.40          |                |                | 10.35          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 36.46                                      |                |                | 38.99          |                |                | 42.68          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.71                                       |                |                | 3.66           |                |                | 3.52           |                |                |  |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |                |                |  |
| Dimensions                               | Unit                                      | Height                            | 66.5                                       |                |                |                |                |                |                |                |                |  |
|  |   | Width                             | 51.4                                       |                |                | 39.6           |                |                | 51.4           |                |                |  |
|  |   | Depth                             | 31.1                                       |                |                |                |                |                |                |                |                |  |
| Weight                                   | Unit                                      | lbs                               | 778.0                                      |                | 521.0          |                | 778.0          |                | 725.0          |                | 725.0          |  |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                | Triple         |                | Twin           |                | Triple         |                |                |  |
| Motor Output                             |   | kW                                | 12.1                                       |                | 6.2            |                | 12.1           |                | 8.0            |                | 12.1           |  |
| Fan Unit                                 | Type                                      |                                   | Propeller Fan                              |                |                |                |                |                |                |                |                |  |
|  | Motor Output                              | kW                                | 0.73 x 2                                   |                | 0.59 x 1       |                | 0.73 x 2       |                | 0.33 x 2       |                | 0.73 x 2       |  |
|  | Air Volume                                | cfm                               | 8,670                                      |                | 6,180          |                | 8,670          |                | 7,770          |                | 8,670          |  |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.32                                       |                |                |                |                |                |                |                |                |  |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |                |                |                |  |
| Refrigerant Name                         |   | R410A                             |  |                |                |                |                |                |                |                |                |  |
| Charged Refrigerant Amount (*4)          |   | lbs                               | 19.8                                       |                | 13.2           |                | 19.8           |                | 19.8           |                |                |  |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |                |                |  |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |                |                |                |  |
| Power Supply Wiring                      |   | MCA                               | 57.4                                       |                | 36.6           |                | 57.4           |                | 50.5           |                | 57.4           |  |
|  |   | MOCP (*6)                         | 80.0                                       |                | 45.0           |                | 80.0           |                | 60.0           |                | 80.0           |  |
| Piping Connections                       | Gas                                       | Type                              | Brazeing                                   |                |                |                |                |                |                |                |                |  |
|  |   | Diameter                          | 1-1/8                                      |                | 7/8            |                | 1-1/8          |                |                |                |                |  |
|  | Liquid                                    | Type                              | Brazeing                                   |                |                |                |                |                |                |                |                |  |
|  |   | Diameter                          | 5/8  |                | 1/2            |                | 5/8            |                | 1/2            |                | 5/8            |  |
| Furthest Piping Length                   |   | Equivalent Length                 | 771.0                                      |                |                |                |                |                |                |                |                |  |
|  |   | Real Length                       | 623.0                                      |                |                |                |                |                |                |                |                |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~150                                     |                |                |                |                |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units |                                   | 648  |                |                | 684            |                |                | 720            |                |                |  |
|  | Maximum Number of Indoor Units            |                                   | 72   |                |                | 73             |                |                | 74             |                |                |  |
| Sound Pressure Level                     |   | Cooling                           | 64.6                                       |                |                | 65.0           |                |                | 65.8           |                |                |  |
|  |   | Heating                           | 70.3                                       |                |                | 70.5           |                |                | 71.0           |                |                |  |
| Operation Temperature Range              |   | Cooling                           | -10.0 to 125.0 (-23.3 to 52.0° C)          |                |                |                |                |                |                |                |                |  |
|  |   | Heating                           | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 460V / Three-Phase / 60Hz



| Standard Model                           |  |                                   |         | MUP0721HT6P-UL                    | MUP0961HT6P-UL | MUP1201HT6P-UL | MUP1441HT6P-UL | MUP1681HT6P-UL | MUP1921HT6P-UL |
|--|--|-----------------------------------|---------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|
| Model Name                               |  | MMY-                              |         |                                   |                |                |                |                |                |
| Power Supply                             |  | Nominal Voltage                   | V/Ph/Hz | 460V / Three-Phase / 60Hz         |                |                |                |                |                |
|  |  | Voltage Range                     | V       | 414-506V                          |                |                |                |                |                |
| Cooling                                  |  | Nominal Capacity (*1)             | kBTU/h  | 72.0                              | 96.0           | 120.0          | 144.0          | 168.0          | 192.0          |
|  |  | Rated Capacity (*1)               | kBTU/h  | 69.0                              | 92.0           | 114.0          | 138.0          | 160.0          | 184.0          |
| Heating                                  |  | Nominal Capacity (*1)             | kBTU/h  | 81.0                              | 108.0          | 135.0          | 162.0          | 189.0          | 216.0          |
|  |  | Rated Capacity (*1)               | kBTU/h  | 77.0                              | 103.0          | 129.0          | 154.0          | 180.0          | 206.0          |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW      | 4.99                              | 7.60           | 10.00          | 12.10          | 13.70          | 16.90          |
|  |  | Rated EER (*1) (*2)               | BTU/W   | 13.80                             | 12.10          | 11.30          | 11.30          | 11.60          | 10.80          |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW      | 4.90                              | 6.96           | 8.99           | 11.17          | 14.22          | 17.16          |
|  |  | Rated COP (*1) (*2)               | BTU/W   | 4.60                              | 4.30           | 4.20           | 4.00           | 3.70           | 3.50           |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW      | 4.84                              | 6.83           | 8.50           | 10.55          | 13.53          | 15.78          |
|  |  | Rated EER (*1) (*2)               | BTU/W   | 14.20                             | 13.40          | 13.40          | 13.00          | 11.80          | 11.60          |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW      | 4.99                              | 7.04           | 8.79           | 10.84          | 13.38          | 16.02          |
|  |  | Rated COP (*1) (*2)               | BTU/W   | 4.52                              | 4.28           | 4.30           | 4.16           | 3.97           | 3.76           |
| Starting Current                         |  |                                   | A       | Soft Start                        |                |                |                |                |                |
| Dimensions                               | Unit                                       | Height                            | in      | 66.5                              |                |                |                |                |                |
|  |  | Width                             | in      | 39.6                              |                | 51.4           |                |                |                |
|  |  | Depth                             | in      | 31.1                              |                |                |                |                |                |
| Weight                                   | Unit                                       |                                   | lbs     | 533.0                             |                | 721.0          |                | 774.0          | 828.0          |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   |         | Twin                              |                | Triple         |                |                | Twin x 2       |
|  | Motor Output                               |                                   | kW      | 4.1                               | 6.2            | 8.0            | 9.7            | 12.1           | 14.1           |
| Fan Unit                                 | Type                                       |                                   |         | Propeller Fan                     |                |                |                |                |                |
|  | Motor Output                               |                                   | kW      | 0.43 x 1                          | 0.59 x 1       | 0.33 x 2       | 0.43x 2        | 0.73 x 2       | 0.85x 2        |
|  | Air Volume                                 |                                   | cfm     | 5,650                             | 6,180          | 7,770          | 8,650          | 8,670          | 9,780          |
| Maximum External Static Pressure (*3)    |  |                                   | in H2O  | 0.32                              |                |                |                |                |                |
| Heat Exchanger                           |  |                                   |         | Finned Tube                       |                |                |                |                |                |
| Refrigerant                              | Name                                       |                                   |         | R410A                             |                |                |                |                |                |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs     | 13.2                              |                | 19.8           |                |                |                |
| High-Pressure Switch (Protective Device) |  |                                   | psi     | ON: 464 OFF: 601                  |                |                |                |                |                |
| Protective Devices                       |  |                                   |         | (*5)                              |                |                |                |                |                |
| Power Supply Wiring                      | MCA  | A                                 |         | 17.4                              | 17.5           | 24.2           | 24.6           | 27.4           | 31.8           |
|  | MOC (*6)                                   | A                                 |         | 20.0                              |                | 30.0           | 35.0           | 40.0           | 50.0           |
| Piping Connections                       | Gas  | Type                              |         | Brazing                           |                |                |                |                |                |
|  |  | Diameter                          | in      | 3/4                               | 7/8            | 1-1/8          |                |                |                |
|  | Liquid                                     | Type                              |         | Brazing                           |                |                |                |                |                |
|  |  | Diameter                          | in      | 1/2                               |                | 5/8            |                |                |                |
| Furthest Piping Length                   |  | Equivalent Length                 | ft      | 689.0                             |                |                |                |                |                |
|  |  | Real Length                       | ft      | 591.0                             |                |                |                |                |                |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | %       | 70~200                            |                |                |                |                |                |
|  | Maximum Capacity of Combined Indoor Units  |                                   |         | 144                               | 192            | 240            | 288            | 336            | 384            |
|  | Maximum Number of Indoor Units             |                                   |         | 12                                | 17             | 21             | 25             | 30             | 34             |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             |         | 53.0                              | 56.0           | 58.0           | 61.0           |                | 64.0           |
|  | Heating                                    | dB(A)                             |         | 56.0                              | 59.0           | 61.0           | 64.0           | 67.0           |                |
| Operation Temperature Range              | Cooling                                    | ° F DB                            |         | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |                |                |
|  | Heating                                    | ° F WB                            |         | -22.0 to 60.0 (-30.0 to 15.5° C)  |                |                |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOC: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 460V / Three-Phase / 60Hz



| Standard Model                           |  |                                   | UP1921HT6P-UL                     |                  | UP2161HT6P-UL  |                | UP2401HT6P-UL  |                | UP2641HT6P-UL  |                |  |
|--|--|-----------------------------------|-----------------------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               | MMY-                                       |                                   | MUP0961HT6P-UL                    | MUP0961HT6P-UL   | MUP1441HT6P-UL | MUP0721HT6P-UL | MUP1441HT6P-UL | MUP0961HT6P-UL | MUP1681HT6P-UL | MUP0961HT6P-UL |  |
| Outdoor Unit Model Name                  | Nominal Voltage                            | V/Ph/Hz                           | 460V / Three-Phase / 60Hz         |                  |                |                |                |                |                |                |  |
|  | Voltage Range                              | V                                 | 414-506V                          |                  |                |                |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                      | kBTU/h                            | 192.0                             |                  | 216.0          |                | 240.0          |                | 264.0          |                |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 184.0                             |                  | 206.0          |                | 230.0          |                | 252.0          |                |  |
| Heating                                  | Nominal Capacity (*1)                      | kBTU/h                            | 216.0                             |                  | 243.0          |                | 270.0          |                | 297.0          |                |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 206.0                             |                  | 232.0          |                | 258.0          |                | 284.0          |                |  |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 17.40            |                | 18.50          |                | 21.80          |                | 23.90          |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 10.50            |                | 11.10          |                | 10.50          |                |                |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 13.73            |                | 16.39          |                | 18.39          |                | 21.70          |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 4.40             |                | 4.10           |                | 3.80           |                |                |  |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 14.70            |                | 16.00          |                | 18.48          |                | 22.23          |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 12.50            |                | 12.80          |                | 12.40          |                | 11.30          |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 13.51            |                | 15.20          |                | 17.43          |                | 19.55          |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 4.46             |                | 4.47           |                | 4.33           |                | 4.25           |  |
| Starting Current                         |  | A                                 | Soft Start                        |                  |                |                |                |                |                |                |  |
| Dimensions                               | Unit                                       | Height                            | in                                | 66.5             |                |                |                |                |                |                |  |
|  |  | Width                             | in                                | 39.6             | 51.4           | 39.6           | 51.4           | 39.6           | 51.4           | 39.6           |  |
|  |  | Depth                             | in                                | 31.1             |                |                |                |                |                |                |  |
| Weight                                   | Unit                                       | lbs                               | 533.0                             | 721.0            | 533.0          | 721.0          | 533.0          | 774.0          | 533.0          |                |  |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Twin                              | Triple           | Twin           | Triple         | Twin           | Triple         | Twin           |                |  |
|  | Motor Output                               | kW                                | 6.2                               | 9.7              | 4.1            | 9.7            | 6.2            | 12.1           | 6.2            |                |  |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan                     |                  |                |                |                |                |                |                |  |
|  | Motor Output                               | kW                                | 0.59 x 1                          | 0.43 x 2         | 0.43 x 1       | 0.43 x 2       | 0.59 x 1       | 0.73 x 2       | 0.59 x 1       |                |  |
|  | Air Volume                                 | cfm                               | 6,180                             | 8,650            | 5,650          | 8,650          | 6,180          | 8,670          | 6,180          |                |  |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.32                              |                  |                |                |                |                |                |                |  |
| Heat Exchanger                           |  |                                   | Finned Tube                       |                  |                |                |                |                |                |                |  |
| Refrigerant                              | Name                                       |                                   | R410A                             |                  |                |                |                |                |                |                |  |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs                               | ON: 464 OFF: 601 |                |                |                |                |                |                |  |
| High-Pressure Switch (Protective Device) |  | psi                               | 13.2                              | 19.8             | 13.2           | 19.8           | 13.2           | 19.8           | 13.2           |                |  |
| Protective Devices                       |  |                                   | (*5)                              |                  |                |                |                |                |                |                |  |
| Power Supply Wiring                      | MCA  | A                                 | 17.5                              | 24.6             | 17.4           | 24.6           | 17.5           | 27.4           | 17.5           |                |  |
|  | MOCP (*6)                                  | A                                 | 20.0                              | 35.0             | 20.0           | 35.0           | 20.0           | 40.0           | 20.0           |                |  |
| Piping Connections                       | Gas  | Type                              | Brazeing                          |                  |                |                |                |                |                |                |  |
|  |  | Diameter                          | in                                | 7/8              | 1-1/8          | 3/4            | 1-1/8          | 7/8            | 1-1/8          | 7/8            |  |
|  | Liquid                                     | Type                              | Brazeing                          |                  |                |                |                |                |                |                |  |
|  |  | Diameter                          | in                                | 1/2              | 5/8            | 1/2            | 5/8            | 1/2            | 5/8            | 1/2            |  |
| Furthest Piping Length                   | Equivalent Length                          | ft                                | 738.0                             |                  |                |                |                |                |                |                |  |
|  | Real Length                                | ft                                | 607.0                             |                  |                |                |                |                |                |                |  |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 50~150                            |                  |                |                |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 288                               | 324              | 360            | 396            |                |                |                |                |  |
|  | Maximum Number of Indoor Units             |                                   | 34                                | 38               | 43             | 47             |                |                |                |                |  |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 59.0                              | 61.6             | 62.2           | 67.6           |                |                |                |                |  |
|  | Heating                                    | dB(A)                             | 62.0                              | 64.6             | 65.2           | 67.6           |                |                |                |                |  |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |                  |                |                |                |                |                |                |  |
|  | Heating                                    | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)  |                  |                |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 460V / Three-Phase / 60Hz



| Standard Model                           |  |                                   |                                   |                |                |                |
|--|--|-----------------------------------|-----------------------------------|----------------|----------------|----------------|
| Model Name                               |  | MMY-                              | UP2881HT6P-UL                     | UP3121HT6P-UL  | UP3361HT6P-UL  |                |
| Outdoor Unit Model Name                  |  | MMY-                              | MUP1441HT6P-UL                    | MUP1441HT6P-UL | MUP1681HT6P-UL | MUP1681HT6P-UL |
| Power Supply                             | Nominal Voltage                            | V/Ph/Hz                           | 460V / Three-Phase / 60Hz         |                |                |                |
|  | Voltage Range                              | V                                 | 414-506V                          |                |                |                |
| Cooling                                  | Nominal Capacity (*1)                      | kBTU/h                            | 288.0                             | 312.0          | 336.0          |                |
|  | Rated Capacity (*1)                        | kBTU/h                            | 276.0                             | 298.0          | 320.0          |                |
| Heating                                  | Nominal Capacity (*1)                      | kBTU/h                            | 324.0                             | 351.0          | 378.0          |                |
|  | Rated Capacity (*1)                        | kBTU/h                            | 308.0                             | 334.0          | 360.0          |                |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 27.10          | 30.40          | 29.40          |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 10.20          | 9.81           | 10.80          |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 24.33          | 26.97          | 29.08          |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 3.70           | 3.60           | 3.60           |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 23.04          | 26.96          | 29.00          |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 11.97          | 11.05          | 11.00          |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 21.17          | 24.65          | 27.49          |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 4.26           | 3.97           | 3.83           |
| Starting Current                         |  | A                                 | Soft Start                        |                |                |                |
| Dimensions                               | Unit                                       | Height                            | in                                | 66.5           |                |                |
|  |  | Width                             | in                                | 51.4           |                |                |
|  |  | Depth                             | in                                | 31.1           |                |                |
| Weight                                   | Unit                                       | lbs                               | 721.0                             | 774.0          | 721.0          | 774.0          |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Triple                            |                |                |                |
|  | Motor Output                               | kW                                | 9.7                               | 12.1           | 9.7            | 12.1           |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan                     |                |                |                |
|  | Motor Output                               | kW                                | 0.43 x 2                          | 0.73 x 2       | 0.43 x 2       | 0.73 x 2       |
|  | Air Volume                                 | cfm                               | 8,650                             | 8,670          | 8,650          | 8,670          |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.32                              |                |                |                |
| Heat Exchanger                           |  | Finned Tube                       |                                   |                |                |                |
| Refrigerant                              | Name                                       |                                   | R410A                             |                |                |                |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs                               | 19.8           |                |                |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                  |                |                |                |
| Protective Devices                       |  | (*5)                              |                                   |                |                |                |
| Power Supply Wiring                      | MCA  | A                                 | 24.6                              | 27.4           | 24.6           | 27.4           |
|  | MOCP (*6)                                  | A                                 | 35.0                              | 40.0           | 35.0           | 40.0           |
| Piping Connections                       | Gas  | Type                              | Brazeing                          |                |                |                |
|  |  | Diameter                          | in                                | 1-1/8          |                |                |
|  | Liquid                                     | Type                              | Brazeing                          |                |                |                |
|  |  | Diameter                          | in                                | 5/8            |                |                |
| Furthest Piping Length                   | Equivalent Length                          | ft                                | 738.0                             |                |                |                |
|  | Real Length                                | ft                                | 607.0                             |                |                |                |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 50~150                            |                |                |                |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 432                               | 468            | 504            |                |
|  | Maximum Number of Indoor Units             |                                   | 51                                | 56             | 60             |                |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 64.0                              |                |                |                |
|  | Heating                                    | dB(A)                             | 67.0                              | 68.8           | 70.0           |                |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |
|  | Heating                                    | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)  |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 460V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  | UP3601HT6P-UL  |                |                | UP3841HT6P-UL  |                |                | UP4081HT6P-UL  |                |      |          |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|----------|
| Model Name                               |   | MMY-                              |  |                |                |                |                |                |                |                |                |      |          |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681HT6P-UL                             | MUP0961HT6P-UL | MUP0961HT6P-UL | MUP1441HT6P-UL | MUP1441HT6P-UL | MUP0961HT6P-UL | MUP1681HT6P-UL | MUP1441HT6P-UL | MUP0961HT6P-UL |      |          |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 460V / Three-Phase / 60Hz                  |                |                |                |                |                |                |                |                |      |          |
|  | Voltage Range                             | V                                 | 414-506V                                   |                |                |                |                |                |                |                |                |      |          |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 360.0                                      |                |                | 384.0          |                |                | 408.0          |                |                |      |          |
|  | Rated Capacity (*1)                       | kBTU/h                            | 342.0                                      |                |                | 366.0          |                |                | 390.0          |                |                |      |          |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 405.0                                      |                |                | 432.0          |                |                | 459.0          |                |                |      |          |
|  | Rated Capacity (*1)                       | kBTU/h                            | 386.0                                      |                |                | 412.0          |                |                | 438.0          |                |                |      |          |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW   | 34.70          |                |                | 37.30          |                |                | 38.80          |                |      |          |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      | 9.85           |                |                | 9.81           |                |                | 10.03          |                |      |          |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   | 32.08          |                |                | 34.07          |                |                | 37.48          |                |      |          |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      | 3.50           |                |                | 3.50           |                |                | 3.40           |                |      |          |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW   | 27.52          |                |                | 29.79          |                |                | 33.78          |                |      |          |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      | 12.42          |                |                | 12.28          |                |                | 11.54          |                |      |          |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   | 29.30          |                |                | 31.22          |                |                | 34.26          |                |      |          |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      | 3.86           |                |                | 3.86           |                |                | 3.74           |                |      |          |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |                |                |      |          |
| Dimensions                               | Unit                                      | Height                            | in   | 66.5           |                |                |                |                |                |                |                |      |          |
|  |   | Width                             | in   | 51.4           | 39.6           |                |                | 51.4           | 39.6           |                | 51.4           | 39.6 |          |
|  |   | Depth                             | in   | 31.1           |                |                |                |                |                |                |                |      |          |
| Weight                                   | Unit                                      | lbs                               | 774.0                                      | 533.0          |                |                | 721.0          | 533.0          |                | 774.0          | 721.0          |      | 533.0    |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor | Triple         | Twin           |                |                | Triple         | Twin           |                | Triple         | Twin |          |
| Fan Unit                                 | Motor Output                              | kW                                | 12.1                                       | 6.2            |                |                | 9.7            | 6.2            |                | 12.1           | 9.7            |      | 6.2      |
|  |   | Type                              | Propeller Fan                              |                |                |                |                |                |                |                |                |      |          |
| Fan Unit                                 | Air Volume                                | kW                                | 0.73 x 2                                   | 0.59 x 1       |                |                | 0.43 x 2       | 0.59 x 1       |                | 0.73 x 2       | 0.43 x 2       |      | 0.59 x 1 |
|  |   | cfm                               | 8,670                                      | 6,180          |                |                | 8,650          | 6,180          |                | 8,670          | 8,650          |      | 6,180    |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.32                                       |                |                |                |                |                |                |                |                |      |          |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |                |                |                |      |          |
| Refrigerant                              | Name                                      | R410A                             |  |                |                |                |                |                |                |                |                |      |          |
|  | Charged Refrigerant Amount (*4)           | lbs                               | 19.8                                       | 13.2           |                |                | 19.8           | 13.2           |                | 19.8           | 13.2           |      |          |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |                |                |      |          |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |                |                |                |      |          |
| Power Supply Wiring                      | MCA                                       | A                                 | 27.4                                       | 17.5           |                |                | 24.6           | 17.5           |                | 27.4           | 17.5           |      |          |
|  | MOCP (*6)                                 | A                                 | 40.0                                       | 20.0           |                |                | 35.0           | 20.0           |                | 40.0           | 20.0           |      |          |
| Piping Connections                       | Gas                                       | Type                              | Brazeing                                   |                |                |                |                |                |                |                |                |      |          |
|  |   | Diameter                          | in   | 1-1/8          | 7/8            |                |                | 1-1/8          | 7/8            |                | 1-1/8          | 7/8  |          |
|  | Liquid                                    | Type                              | Brazeing                                   |                |                |                |                |                |                |                |                |      |          |
|  |   | Diameter                          | in   | 5/8            | 1/2            |                |                | 5/8            | 1/2            |                | 5/8            | 1/2  |          |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 771.0                                      |                |                |                |                |                |                |                |                |      |          |
|  | Real Length                               | ft                                | 623.0                                      |                |                |                |                |                |                |                |                |      |          |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~150                                     |                |                |                |                |                |                |                |                |      |          |
|  | Maximum Capacity of Combined Indoor Units |                                   | 540  |                |                | 576            |                |                | 612            |                |                |      |          |
|  | Maximum Number of Indoor Units            |                                   | 64   |                |                | 69             |                |                | 70             |                |                |      |          |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 63.1                                       |                |                | 64.6           |                |                | 69.2           |                |                |      |          |
|  | Heating                                   | dB(A)                             | 68.2                                       |                |                | 67.6           |                |                | 69.2           |                |                |      |          |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C)          |                |                |                |                |                |                |                |                |      |          |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |                |                |      |          |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Pump

## MMYH-u

### 460V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  | UP4321HT6P-UL  |                |                | UP4561HT6P-UL  |                |                | UP4801HT6P-UL  |                |  |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               |   | MMY-                              | UP4321HT6P-UL                              |                |                | UP4561HT6P-UL  |                |                | UP4801HT6P-UL  |                |                |  |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681HT6P-UL                             | MUP1681HT6P-UL | MUP0961HT6P-UL | MUP1681HT6P-UL | MUP1681HT6P-UL | MUP1201HT6P-UL | MUP1681HT6P-UL | MUP1681HT6P-UL | MUP1441HT6P-UL |  |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 460V / Three-Phase / 60Hz                  |                |                |                |                |                |                |                |                |  |
|  | Voltage Range                             | V                                 | 414-506V                                   |                |                |                |                |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 432.0                                      |                |                | 456.0          |                |                | 480.0          |                |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 412.0                                      |                |                | 434.0          |                |                | 456.0          |                |                |  |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 486.0                                      |                |                | 513.0          |                |                | 540.0          |                |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 462.0                                      |                |                | 488.0          |                |                | 514.0          |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | 40.10                                      |                |                | 43.20          |                |                | 44.50          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 10.20                                      |                |                | 10.04          |                |                | 10.23          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 39.60                                      |                |                | 42.51          |                |                | 45.88          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.40                                       |                |                | 3.40           |                |                | 3.30           |                |                |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | 37.78                                      |                |                | 41.72          |                |                | 44.04          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 10.90                                      |                |                | 10.40          |                |                | 10.35          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 36.46                                      |                |                | 38.99          |                |                | 42.68          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.71                                       |                |                | 3.66           |                |                | 3.52           |                |                |  |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |                |                |  |
| Dimensions                               | Unit                                      | Height                            | 66.5                                       |                |                |                |                |                |                |                |                |  |
|  |   | Width                             | 51.4                                       |                |                | 39.6           |                |                | 51.4           |                |                |  |
|  |   | Depth                             | 31.1                                       |                |                |                |                |                |                |                |                |  |
| Weight                                   | Unit                                      | lbs                               | 774.0                                      |                | 533.0          |                | 774.0          |                | 721.0          |                | 721.0          |  |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                | Triple         |                | Twin           |                | Triple         |                |                |  |
| Motor Output                             |   | kW                                | 12.1                                       |                | 6.2            |                | 12.1           |                | 8.0            |                | 12.1           |  |
| Fan Unit                                 | Type                                      |                                   | Propeller Fan                              |                |                |                |                |                |                |                |                |  |
|  | Motor Output                              | kW                                | 0.73 x 2                                   |                | 0.59 x 1       |                | 0.73 x 2       |                | 0.33 x 2       |                | 0.73 x 2       |  |
|  | Air Volume                                | cfm                               | 8,670                                      |                | 6,180          |                | 8,670          |                | 7,770          |                | 8,670          |  |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.32                                       |                |                |                |                |                |                |                |                |  |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |                |                |                |  |
| Refrigerant                              |   | R410A                             |  |                |                |                |                |                |                |                |                |  |
| Name                                     |   |                                   |  |                |                |                |                |                |                |                |                |  |
| Charged Refrigerant Amount (*4)          |   | lbs                               | 19.8                                       |                | 13.2           |                | 19.8           |                | 19.8           |                |                |  |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |                |                |  |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |                |                |                |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 27.4                                       |                | 17.5           |                | 27.4           |                | 24.2           |                | 27.4           |  |
|  | MOCP (*6)                                 | A                                 | 40.0                                       |                | 20.0           |                | 40.0           |                | 30.0           |                | 40.0           |  |
| Piping Connections                       | Gas                                       | Type                              | Brazing                                    |                |                |                |                |                |                |                |                |  |
|  |   | Diameter                          | 1-1/8                                      |                |                | 7/8            |                |                | 1-1/8          |                |                |  |
|  | Liquid                                    | Type                              | Brazing                                    |                |                |                |                |                |                |                |                |  |
|  |   | Diameter                          | 5/8  |                | 1/2            |                | 5/8            |                | 1/2            |                | 5/8            |  |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 771.0                                      |                |                |                |                |                |                |                |                |  |
|  | Real Length                               | ft                                | 623.0                                      |                |                |                |                |                |                |                |                |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~150                                     |                |                |                |                |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units |                                   | 648  |                |                | 684            |                |                | 720            |                |                |  |
|  | Maximum Number of Indoor Units            |                                   | 72   |                |                | 73             |                |                | 74             |                |                |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 64.6                                       |                |                | 65.0           |                |                | 65.8           |                |                |  |
|  | Heating                                   | dB(A)                             | 70.3                                       |                |                | 70.5           |                |                | 71.0           |                |                |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C)          |                |                |                |                |                |                |                |                |  |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series "Elite Heat" Heat Pump MMYH-u High Heat 208-230V / Three-Phase / 60Hz



| High Heat Model                          |  |                                   |                                   | MUP072H1HT9PUL | MUP096H1HT9PUL | MUP120H1HT9PUL |
|--|--|-----------------------------------|-----------------------------------|----------------|----------------|----------------|
| Model Name                               |  | MMY-                              |                                   |                |                |                |
| Power Supply                             |  | Nominal Voltage                   | 208-230V / Three-Phase / 60Hz     |                |                |                |
|  |  | Voltage Range                     | 187-253V                          |                |                |                |
| Cooling                                  |  | Nominal Capacity (*1)             | 72.0                              | 96.0           | 120.0          |                |
|  |  | Rated Capacity (*1)               | 69.0                              | 92.0           | 114.0          |                |
| Heating                                  |  | Nominal Capacity (*1)             | 81.0                              | 108.0          | 135.0          |                |
|  |  | Rated Capacity (*1)               | 77.0                              | 103.0          | 129.0          |                |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | 4.91                              | 7.40           | 9.90           |                |
|  |  | Rated EER (*1) (*2)               | 14.00                             | 12.40          | 11.40          |                |
|  | Heating                                    | Rated power consumption (*1) (*2) | 4.83                              | 6.51           | 8.90           |                |
|  |  | Rated COP (*1) (*2)               | 4.70                              | 4.60           | 4.30           |                |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | 4.65                              | 6.96           | 8.42           |                |
|  |  | Rated EER (*1) (*2)               | 14.80                             | 13.20          | 13.50          |                |
|  | Heating                                    | Rated power consumption (*1) (*2) | 4.56                              | 6.31           | 8.56           |                |
|  |  | Rated COP (*1) (*2)               | 4.94                              | 4.78           | 4.41           |                |
| Starting Current                         |  | A                                 | Soft Start                        |                |                |                |
| Dimensions                               | Unit                                       | Height                            | 66.5                              |                |                |                |
|  |  | Width                             | 51.4                              |                |                |                |
|  |  | Depth                             | 31.1                              |                |                |                |
| Weight                                   | Unit                                       | lbs                               | 597.0                             | 725.0          | 778.0          |                |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Twin                              |                | Triple         |                |
|  | Motor Output                               |                                   | kW                                | 4.6            | 6.3            | 7.7            |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan                     |                |                |                |
|  | Motor Output                               |                                   | kW                                | 0.24 x 1       | 0.33 x 2       | 0.38 x 2       |
|  | Air Volume                                 |                                   | cfm                               | 6,340          | 7,770          | 7,415          |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.32                              |                |                |                |
| Heat Exchanger                           |  | Finned Tube                       |                                   |                |                |                |
| Refrigerant                              | Name                                       |                                   | R410A                             |                |                |                |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs                               | 19.8           |                |                |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                  |                |                |                |
| Protective Devices                       |  | (*5)                              |                                   |                |                |                |
| Power Supply Wiring                      | MCA  | A                                 | 38.8                              | 52.3           | 60.0           | 53.1           |
|  | MOC (*6)                                   | A                                 | 45.0                              |                |                |                |
| Piping Connections                       | Gas  | Type                              | Brazeing                          |                |                |                |
|  |  | Diameter                          | in                                | 3/4            | 1-1/8          |                |
|  | Liquid                                     | Type                              | Brazeing                          |                |                |                |
|  |  | Diameter                          | in                                | 1/2            |                | 5/8            |
| Furthest Piping Length                   |  | Equivalent Length                 | 689.0                             |                |                |                |
|  |  | Real Length                       | 591.0                             |                |                |                |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 80-200                            |                |                |                |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 144                               | 192            | 240            |                |
|  | Maximum Number of Indoor Units             |                                   | 12                                | 17             | 21             |                |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 53.0                              |                |                | 58.0           |
|  | Heating                                    | dB(A)                             | 56.0                              |                |                | 60.0           |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |
|  | Heating                                    | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C)  |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOC: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series “Elite Heat” Heat Pump

## MMYH-u High Heat

### 208-230V / Three-Phase / 60Hz



| High Heat Model                          |   |                                   |  | UP144H1HT9PUL    |                | UP192H1HT9PUL  |                | UP240H1HT9PUL  |                |  |
|--|---|-----------------------------------|--|------------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               |   |                                   | MMY-                                       |                  |                |                |                |                |                |  |
| Outdoor Unit Model Name                  |   |                                   | MMY-                                       | MUP072H1HT9PUL   | MUP072H1HT9PUL | MUP096H1HT9PUL | MUP096H1HT9PUL | MUP120H1HT9PUL | MUP120H1HT9PUL |  |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz              |                  |                |                |                |                |                |  |
|  | Voltage Range                             | V                                 | 187-253V                                   |                  |                |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 144.0                                      |                  | 192.0          |                | 240.0          |                |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 138.0                                      |                  | 184.0          |                | 230.0          |                |                |  |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 162.0                                      |                  | 216.0          |                | 270.0          |                |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 154.0                                      |                  | 206.0          |                | 258.0          |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW   | 10.90            |                | 16.60          |                | 18.60          |                |  |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      | 12.60            |                | 11.00          |                | 12.30          |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   | 9.21             |                | 13.25          |                | 18.73          |                |  |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      | 4.90             |                | 4.60           |                | 4.00           |                |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW   | 10.34            |                | 15.46          |                | 18.29          |                |  |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      | 13.30            |                | 11.90          |                | 12.50          |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   | 9.16             |                | 12.36          |                | 16.89          |                |  |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      | 4.92             |                | 4.88           |                | 4.47           |                |  |
| Starting Current                         |   |                                   | A  | Soft Start       |                |                |                |                |                |  |
| Dimensions                               | Unit                                      | Height                            | in   | 66.5             |                |                |                |                |                |  |
|  |   | Width                             | in   | 51.4             |                |                |                |                |                |  |
|  |   | Depth                             | in   | 31.1             |                |                |                |                |                |  |
| Weight                                   | Unit                                      | lbs                               | 597.0                                      |                  | 725.0          |                | 778.0          |                |                |  |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor | Twin             |                | Triple         |                |                |                |  |
| Fan Unit                                 | Motor Output                              | kW                                | 4.6  |                  | 6.3            |                | 7.7            |                |                |  |
|  | Type                                      |                                   | Propeller Fan                              |                  |                |                |                |                |                |  |
| Fan Unit                                 | Motor Output                              | kW                                | 0.24 x 1                                   |                  | 0.33 x 2       |                | 0.38 x 2       |                |                |  |
|  | Air Volume                                | cfm                               | 6,340                                      |                  | 7,770          |                | 7,415          |                |                |  |
| Maximum External Static Pressure (*3)    |   |                                   | in H2O                                     | 0.32             |                |                |                |                |                |  |
| Heat Exchanger                           |   |                                   |  | Finned Tube      |                |                |                |                |                |  |
| Refrigerant                              | Name                                      |                                   | R410A                                      |                  |                |                |                |                |                |  |
|  | Charged Refrigerant Amount (*4)           | lbs                               | 19.8                                       |                  |                |                |                |                |                |  |
| High-Pressure Switch (Protective Device) |   |                                   | psi  | ON: 464 OFF: 601 |                |                |                |                |                |  |
| Protective Devices                       |   |                                   |  | (*5)             |                |                |                |                |                |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 38.8                                       |                  | 52.3           |                | 53.1           |                |                |  |
|  | MOCP (*6)                                 | A                                 | 45.0                                       |                  |                |                | 60.0           |                |                |  |
| Piping Connections                       | Gas                                       | Type                              | Brazeing                                   |                  |                |                |                |                |                |  |
|  |   | Diameter                          | in   | 3/4              |                | 1-1/8          |                |                |                |  |
|  | Liquid                                    | Type                              | Brazeing                                   |                  |                |                |                |                |                |  |
|  |   | Diameter                          | in   | 1/2              |                |                |                | 5/8            |                |  |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 738.0                                      |                  |                |                |                |                |                |  |
|  | Real Length                               | ft                                | 607.0                                      |                  |                |                |                |                |                |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 216.0                                      |                  | 288.0          |                | 360.0          |                |                |  |
|  | Maximum Capacity of Combined Indoor Units |                                   | 216  |                  | 288            |                | 360            |                |                |  |
|  | Maximum Number of Indoor Units            |                                   | 25   |                  | 34             |                | 43             |                |                |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 56.0                                       |                  | 61.0           |                |                |                |                |  |
|  | Heating                                   | dB(A)                             | 59.0                                       |                  | 63.0           |                |                |                |                |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C)          |                  |                |                |                |                |                |  |
|  | Heating                                   | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C)           |                  |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series “Elite Heat” Heat Pump MMYH-u High Heat 208-230V / Three-Phase / 60Hz



| High Heat Model                          |   |                                   |                                   | UP288H1HT9PUL                              |                |                | UP360H1HT9PUL  |                |  |
|--|---|-----------------------------------|-----------------------------------|--|----------------|----------------|----------------|----------------|--|
| Model Name                               |   | MMY-                              |                                   |  |                |                |                |                |  |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP096H1HT9PUL                    | MUP096H1HT9PUL                             | MUP096H1HT9PUL | MUP120H1HT9PUL | MUP120H1HT9PUL | MUP120H1HT9PUL |  |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz     |  |                |                |                |                |  |
|  | Voltage Range                             | V                                 | 187-253V                          |  |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 288.0                             |  |                | 360.0          |                |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 276.0                             |  |                | 342.0          |                |                |  |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 324.0                             |  |                | 405.0          |                |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 308.0                             |  |                | 386.0          |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | 24.40                             |  |                | 33.10          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 11.30                             |  |                | 10.34          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 22.95                             |  |                | 29.77          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.90                              |  |                | 3.80           |                |                |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | 22.12                             |  |                | 28.65          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 12.47                             |  |                | 11.93          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 19.60                             |  |                | 26.75          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 4.60                              |  |                | 4.22           |                |                |  |
| Starting Current                         |   | A                                 | Soft Start                        |  |                |                |                |                |  |
| Dimensions                               | Unit                                      | Height                            | 66.5                              |  |                |                |                |                |  |
|  |   | Width                             | 51.4                              |  |                |                |                |                |  |
|  |   | Depth                             | 31.1                              |  |                |                |                |                |  |
| Weight                                   | Unit                                      | lbs                               | 725.0                             |  |                | 778.0          |                |                |  |
|  |   | Compressor                        |                                   | Hermetic Twin- or Triple-Rotary Compressor |                |                |                |                |  |
| Motor Output                             |   | kW                                | 6.3                               |  |                | 7.7            |                |                |  |
| Fan Unit                                 |   | Type                              |                                   |  |                |                |                |                |  |
| Motor Output                             |   | kW                                | 0.33 x 2                          |  |                | 0.38 x 2       |                |                |  |
| Air Volume                               |   | cfm                               | 7,770                             |  |                | 7,415          |                |                |  |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.32                              |  |                |                |                |                |  |
| Heat Exchanger                           |   | Finned Tube                       |                                   |  |                |                |                |                |  |
| Refrigerant                              |   | Name                              |                                   |  |                |                |                |                |  |
| Charged Refrigerant Amount (*4)          |   | lbs                               | R410A                             |  |                |                |                |                |  |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                  |  |                |                |                |                |  |
| Protective Devices                       |   | (*5)                              |                                   |  |                |                |                |                |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 52.3                              |  |                | 53.1           |                |                |  |
|  | MOCP (*6)                                 | A                                 | 60.0                              |  |                | 60.0           |                |                |  |
| Piping Connections                       | Gas                                       | Type                              | Brazing                           |  |                |                |                |                |  |
|  |   | Diameter                          | 1-1/8                             |  |                |                |                |                |  |
|  | Liquid                                    | Type                              | Brazing                           |  |                |                |                |                |  |
|  |   | Diameter                          | in                                | 1/2  |                |                | 5/8            |                |  |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 771.0                             |  |                |                |                |                |  |
|  | Real Length                               | ft                                | 623.0                             |  |                |                |                |                |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~150                            |  |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units |                                   | 432                               |  |                | 540            |                |                |  |
|  | Maximum Number of Indoor Units            |                                   | 51                                |  |                | 64             |                |                |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 62.8                              |  |                |                |                |                |  |
|  | Heating                                   | dB(A)                             | 64.8                              |  |                |                |                |                |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |  |                |                |                |                |  |
|  | Heating                                   | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C)  |  |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series “Elite Heat” Heat Pump

## MMYH-u High Heat

### 460V / Three-Phase / 60Hz



| High Heat Model                          |   |  |                                   | MUP072H1HT6PUL |       | MUP096H1HT6PUL |       | MUP120H1HT6PUL |  |
|--|---|--|-----------------------------------|----------------|-------|----------------|-------|----------------|--|
| Model Name                               |   | MMY-                                       |                                   |                |       |                |       |                |  |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                                    | 460V / Three-Phase / 60Hz         |                |       |                |       |                |  |
|  | Voltage Range                             | V  | 414-506V                          |                |       |                |       |                |  |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                                     | 72.0                              |                | 96.0  |                | 120.0 |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                                     | 69.0                              |                | 92.0  |                | 114.0 |                |  |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                                     | 81.0                              |                | 108.0 |                | 135.0 |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                                     | 77.0                              |                | 103.0 |                | 129.0 |                |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2)          | kW                                | 4.91           |       | 7.40           |       | 9.90           |  |
|  |   | Rated EER (*1) (*2)                        | BTU/W                             | 14.00          |       | 12.40          |       | 11.40          |  |
|  | Heating                                   | Rated power consumption (*1) (*2)          | kW                                | 4.83           |       | 6.51           |       | 8.90           |  |
|  |   | Rated COP (*1) (*2)                        | BTU/W                             | 4.70           |       | 4.60           |       | 4.30           |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2)          | kW                                | 4.65           |       | 6.96           |       | 8.42           |  |
|  |   | Rated EER (*1) (*2)                        | BTU/W                             | 14.80          |       | 13.20          |       | 13.50          |  |
|  | Heating                                   | Rated power consumption (*1) (*2)          | kW                                | 4.56           |       | 6.31           |       | 8.56           |  |
|  |   | Rated COP (*1) (*2)                        | BTU/W                             | 4.94           |       | 4.78           |       | 4.41           |  |
| Starting Current                         |   | A  | Soft Start                        |                |       |                |       |                |  |
| Dimensions                               | Unit                                      | Height                                     | in                                | 66.5           |       |                |       |                |  |
|  |   | Width                                      | in                                | 51.4           |       |                |       |                |  |
|  |   | Depth                                      | in                                | 31.1           |       |                |       |                |  |
| Weight                                   | Unit                                      |  |                                   | 611.0          |       | 721.0          |       | 774.0          |  |
|  |   | Hermetic Twin- or Triple-Rotary Compressor |                                   | Twin           |       | Triple         |       |                |  |
| Compressor                               | Motor Output                              |  | kW                                | 4.6            |       | 6.3            |       | 7.7            |  |
|  | Type                                      |  | Propeller Fan                     |                |       |                |       |                |  |
| Fan Unit                                 | Motor Output                              |  | kW                                | 0.24 x 1       |       | 0.33 x 2       |       | 0.38 x 2       |  |
|  | Air Volume                                |  | cfm                               | 6,340          |       | 7,770          |       | 7,415          |  |
| Maximum External Static Pressure (*3)    |   | in H2O                                     | 0.32                              |                |       |                |       |                |  |
| Heat Exchanger                           |   | Finned Tube                                |                                   |                |       |                |       |                |  |
| Refrigerant                              | Name                                      |  | R410A                             |                |       |                |       |                |  |
|  | Charged Refrigerant Amount (*4)           |  | lbs                               | 19.8           |       |                |       |                |  |
| High-Pressure Switch (Protective Device) |   | psi  | ON: 464 OFF: 601                  |                |       |                |       |                |  |
| Protective Devices                       |   | (*5)                                       |                                   |                |       |                |       |                |  |
| Power Supply Wiring                      | MCA                                       | A  | 18.5                              |                | 24.9  |                | 25.4  |                |  |
|  | MOCP (*6)                                 | A  | 20.0                              |                | 30.0  |                |       |                |  |
| Piping Connections                       | Gas                                       | Type                                       | Brazeing                          |                |       |                |       |                |  |
|  |   | Diameter                                   | in                                | 3/4            |       | 1-1/8          |       |                |  |
|  | Liquid                                    | Type                                       | Brazeing                          |                |       |                |       |                |  |
|  |   | Diameter                                   | in                                | 1/2            |       | 5/8            |       |                |  |
| Furthest Piping Length                   | Equivalent Length                         | ft   | 689.0                             |                |       |                |       |                |  |
|  | Real Length                               | ft   | 591.0                             |                |       |                |       |                |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)            | 80~200                            |                |       |                |       |                |  |
|  | Maximum Capacity of Combined Indoor Units |  | 144                               |                | 192   |                | 240   |                |  |
|  | Maximum Number of Indoor Units            |  | 12                                |                | 17    |                | 21    |                |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                                      | 53.0                              |                | 58.0  |                |       |                |  |
|  | Heating                                   | dB(A)                                      | 56.0                              |                | 60.0  |                |       |                |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                                     | -10.0 to 125.0 (-23.3 to 52.0° C) |                |       |                |       |                |  |
|  | Heating                                   | ° F WB                                     | -30.0 to 60.0 (-34.4 to 15.5° C)  |                |       |                |       |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series "Elite Heat" Heat Pump

## MMYH-u High Heat

### 460V / Three-Phase / 60Hz



| High Heat Model                          |   |                                   |  | UP144H1HT6PUL                     |                | UP192H1HT6PUL  |                | UP240H1HT6PUL  |                |
|--|---|-----------------------------------|--|-----------------------------------|----------------|----------------|----------------|----------------|----------------|
| Model Name                               |   |                                   | MMY-                                       |                                   |                |                |                |                |                |
| Outdoor Unit Model Name                  |   |                                   | MMY-                                       | MUP072H1HT6PUL                    | MUP072H1HT6PUL | MUP096H1HT6PUL | MUP096H1HT6PUL | MUP120H1HT6PUL | MUP120H1HT6PUL |
| Power Supply                             |   | Nominal Voltage                   | V/Ph/Hz                                    | 460V / Three-Phase / 60Hz         |                |                |                |                |                |
|  |   | Voltage Range                     | V  | 414-506V                          |                |                |                |                |                |
| Cooling                                  |   | Nominal Capacity (*1)             | kBTU/h                                     | 144.0                             |                | 192.0          |                | 240.0          |                |
|  |   | Rated Capacity (*1)               | kBTU/h                                     | 138.0                             |                | 184.0          |                | 230.0          |                |
| Heating                                  |   | Nominal Capacity (*1)             | kBTU/h                                     | 162.0                             |                | 216.0          |                | 270.0          |                |
|  |   | Rated Capacity (*1)               | kBTU/h                                     | 154.0                             |                | 206.0          |                | 258.0          |                |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW   | 10.90                             |                | 16.60          |                | 18.60          |                |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      | 12.60                             |                | 11.00          |                | 12.30          |                |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   | 9.21                              |                | 13.25          |                | 18.73          |                |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      | 4.90                              |                | 4.60           |                | 4.00           |                |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW   | 10.34                             |                | 15.46          |                | 18.29          |                |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      | 13.30                             |                | 11.90          |                | 12.50          |                |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   | 9.16                              |                | 12.36          |                | 16.89          |                |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      | 4.92                              |                | 4.88           |                | 4.47           |                |
| Starting Current                         |   |                                   | A  | Soft Start                        |                |                |                |                |                |
| Dimensions                               | Unit                                      | Height                            | in   | 66.5                              |                |                |                |                |                |
|  |   | Width                             | in   | 51.4                              |                |                |                |                |                |
|  |   | Depth                             | in   | 31.1                              |                |                |                |                |                |
| Weight                                   | Unit                                      | lbs                               | 611.0                                      |                                   | 721.0          |                | 774.0          |                |                |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                                   |                | Twin           |                | Triple         |                |
| Motor Output                             |   | kW                                | 4.6  |                                   | 6.3            |                | 7.7            |                |                |
| Fan Unit                                 | Type                                      |                                   | Propeller Fan                              |                                   |                |                |                |                |                |
|  | Motor Output                              | kW                                | 0.24 x 1                                   |                                   | 0.33 x 2       |                | 0.38 x 2       |                |                |
|  | Air Volume                                | cfm                               | 6,340                                      |                                   | 7,770          |                | 7,415          |                |                |
| Maximum External Static Pressure (*3)    |   |                                   | in H2O                                     | 0.32                              |                |                |                |                |                |
| Heat Exchanger                           |   |                                   | Finned Tube                                |                                   |                |                |                |                |                |
| Refrigerant                              |   | Name                              | R410A                                      |                                   |                |                |                |                |                |
|  |   | Charged Refrigerant Amount (*4)   | lbs  | 19.8                              |                |                |                |                |                |
| High-Pressure Switch (Protective Device) |   |                                   | psi  | ON: 464 OFF: 601                  |                |                |                |                |                |
| Protective Devices                       |   |                                   | (*5)                                       |                                   |                |                |                |                |                |
| Power Supply Wiring                      |   | MCA                               | A  | 18.5                              |                | 24.9           |                | 25.4           |                |
|  |   | MOCP (*6)                         | A  | 20.0                              |                |                |                | 30.0           |                |
| Piping Connections                       | Gas                                       | Type                              | Brazing                                    |                                   |                |                |                |                |                |
|  |   | Diameter                          | in   | 3/4                               |                | 1-1/8          |                |                |                |
|  | Liquid                                    | Type                              | Brazing                                    |                                   |                |                |                |                |                |
|  |   | Diameter                          | in   | 1/2                               |                | 5/8            |                |                |                |
| Furthest Piping Length                   |   | Equivalent Length                 | ft   | 738.0                             |                |                |                |                |                |
|  |   | Real Length                       | ft   | 607.0                             |                |                |                |                |                |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | %  | 50~150                            |                |                |                |                |                |
|  | Maximum Capacity of Combined Indoor Units |                                   |  | 216                               |                | 288            |                | 360            |                |
|  | Maximum Number of Indoor Units            |                                   |  | 25                                |                | 34             |                | 43             |                |
| Sound Pressure Level                     |   | Cooling                           | dB(A)                                      | 56.0                              |                | 61.0           |                |                |                |
|  |   | Heating                           | dB(A)                                      | 59.0                              |                | 63.0           |                |                |                |
| Operation Temperature Range              |   | Cooling                           | ° F DB                                     | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |                |                |
|  |   | Heating                           | ° F WB                                     | -30.0 to 60.0 (-34.4 to 15.5° C)  |                |                |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series “Elite Heat” Heat Pump

## MMYH-u High Heat

### 460V / Three-Phase / 60Hz



| High Heat Model                          |  |                                   |                                   | UP288H1HT6PUL  |                |                | UP360H1HT6PUL  |                |  |
|--|--|-----------------------------------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               |  | MMY-                              |                                   |                |                |                |                |                |  |
| Outdoor Unit Model Name                  |  | MMY-                              | MUP096H1HT6PUL                    | MUP096H1HT6PUL | MUP096H1HT6PUL | MUP120H1HT6PUL | MUP120H1HT6PUL | MUP120H1HT6PUL |  |
| Power Supply                             | Nominal Voltage                            | V/Ph/Hz                           | 460V / Three-Phase / 60Hz         |                |                |                |                |                |  |
|  | Voltage Range                              | V                                 | 414-506V                          |                |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                      | kBTU/h                            | 288.0                             |                |                | 360.0          |                |                |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 276.0                             |                |                | 342.0          |                |                |  |
| Heating                                  | Nominal Capacity (*1)                      | kBTU/h                            | 324.0                             |                |                | 405.0          |                |                |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 308.0                             |                |                | 386.0          |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 24.40          |                |                | 33.10          |                |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 11.30          |                |                | 10.34          |                |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 22.95          |                |                | 29.77          |                |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 3.90           |                |                | 3.80           |                |  |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW                                | 22.12          |                |                | 28.65          |                |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                             | 12.47          |                |                | 11.93          |                |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                                | 19.60          |                |                | 26.75          |                |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                             | 4.60           |                |                | 4.22           |                |  |
| Starting Current                         |  | A                                 | Soft Start                        |                |                |                |                |                |  |
| Dimensions                               | Unit                                       | Height                            | in                                | 66.5           |                |                |                |                |  |
|  |  | Width                             | in                                | 51.4           |                |                |                |                |  |
|  |  | Depth                             | in                                | 31.1           |                |                |                |                |  |
| Weight                                   | Unit                                       | lbs                               | 774.0                             |                |                | 721.0          |                |                |  |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Triple                            |                |                |                |                |                |  |
|  | Motor Output                               | kW                                | 6.3                               |                |                | 7.7            |                |                |  |
| Fan Unit                                 | Type                                       | Propeller Fan                     |                                   |                |                |                |                |                |  |
|  | Motor Output                               | kW                                | 0.33 x 2                          |                |                | 0.38 x 2       |                |                |  |
|  | Air Volume                                 | cfm                               | 7,770                             |                |                | 7,415          |                |                |  |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.32                              |                |                |                |                |                |  |
| Heat Exchanger                           |  | Finned Tube                       |                                   |                |                |                |                |                |  |
| Refrigerant                              | Name                                       | R410A                             |                                   |                |                |                |                |                |  |
|  | Charged Refrigerant Amount (*4)            | lbs                               | 19.8                              |                |                |                |                |                |  |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                  |                |                |                |                |                |  |
| Protective Devices                       |  | (*5)                              |                                   |                |                |                |                |                |  |
| Power Supply Wiring                      | MCA  | A                                 | 24.9                              |                |                | 25.4           |                |                |  |
|  | MOCP (*6)                                  | A                                 |                                   |                |                | 30.0           |                |                |  |
| Piping Connections                       | Gas  | Type                              | Brazing                           |                |                |                |                |                |  |
|  |  | Diameter                          | in                                | 7/8            |                |                | 1-1/8          |                |  |
|  | Liquid                                     | Type                              | Brazing                           |                |                |                |                |                |  |
|  |  | Diameter                          | in                                | 1/2            |                |                | 5/8            |                |  |
| Furthest Piping Length                   | Equivalent Length                          | ft                                | 771.0                             |                |                |                |                |                |  |
|  | Real Length                                | ft                                | 623.0                             |                |                |                |                |                |  |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 50~150                            |                |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 432                               |                |                | 540            |                |                |  |
|  | Maximum Number of Indoor Units             |                                   | 51                                |                |                | 64             |                |                |  |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 62.8                              |                |                |                |                |                |  |
|  | Heating                                    | dB(A)                             | 64.8                              |                |                |                |                |                |  |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |                |                |  |
|  | Heating                                    | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C)  |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 208-230V / Three-Phase / 60Hz



| Standard Model                           |  |                                   | MUP0721FT9P-UL                    | MUP0961FT9P-UL | MUP1201FT9P-UL | MUP1441FT9P-UL | MUP1681FT9P-UL |
|--|--|-----------------------------------|-----------------------------------|----------------|----------------|----------------|----------------|
| Model Name                               |  | MMY-                              |                                   |                |                |                |                |
| Power Supply                             |  | Nominal Voltage                   | 208-230V / Three-Phase / 60Hz     |                |                |                |                |
|  |  | Voltage Range                     | 187-253V                          |                |                |                |                |
| Cooling                                  |  | Nominal Capacity (*1)             | 72                                | 96             | 120            | 144            | 168            |
|  |  | Rated Capacity (*1)               | 69                                | 92             | 115            | 138            | 160            |
| Heating                                  |  | Nominal Capacity (*1)             | 81                                | 108            | 135            | 162            | 189            |
|  |  | Rated Capacity (*1)               | 77                                | 103            | 129            | 154            | 180            |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | 4.97                              | 7.41           | 9.26           | 11.31          | 13.97          |
|  |  | Rated EER (*1) (*2)               | 13.90                             | 12.40          | 12.40          | 12.20          | 11.50          |
|  | Heating                                    | Rated power consumption (*1) (*2) | 4.81                              | 6.59           | 8.76           | 10.99          | 13.39          |
|  |  | Rated COP (*1) (*2)               | 4.69                              | 4.58           | 4.32           | 4.11           | 3.94           |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | 4.69                              | 7.39           | 8.60           | 10.64          | 13.22          |
|  |  | Rated COP (*1) (*2)               | 14.70                             | 12.40          | 13.40          | 13.00          | 12.10          |
|  | Heating                                    | Rated power consumption (*1) (*2) | 4.61                              | 6.73           | 8.53           | 10.27          | 13.17          |
|  |  | Rated COP (*1) (*2)               | 4.90                              | 4.49           | 4.43           | 4.39           | 4.01           |
| Starting Current                         |  | A                                 | Soft Start                        |                |                |                |                |
| Dimensions                               | Unit                                       | Height                            | 66.5                              |                |                |                |                |
|  |  | Width                             | 39.6                              |                | 51.4           |                |                |
|  |  | Depth                             | 31.2                              |                |                |                |                |
| Weight                                   | Unit                                       | lbs                               | 532                               | 675            | 783            | 783            |                |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Twin                              |                | Triple         |                |                |
|  | Motor Output                               |                                   | 4.54 x 1                          | 6.75 x 1       | 8.60 x 1       | 10.40 x 1      | 13.00 x 1      |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan                     |                |                |                |                |
|  | Motor Output                               |                                   | 0.43 x 1                          | 0.66 x 1       | 0.33 x 2       | 0.48 x 2       |                |
|  | Air Volume                                 |                                   | 5,721                             | 6,357          | 7,416          | 7,981          | 8,476          |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.321                             |                |                |                |                |
| Heat Exchanger                           |  | Finned Tube                       |                                   |                |                |                |                |
| Refrigerant                              | Name                                       |                                   | R410A                             |                |                |                |                |
|  | Charged Refrigerant Amount (*4)            |                                   | 13.2                              | 19.8           |                |                |                |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                  |                |                |                |                |
| Protective Devices                       |  | (*5)                              |                                   |                |                |                |                |
| Power Supply Wiring                      | MCA  | A                                 | 36.4                              | 36.6           | 36.8           | 51.5           | 57.4           |
|  | MOCPP (*6)                                 | A                                 | 45                                |                | 60             | 80             |                |
| Piping Connections                       | Liquid Pipe                                | Type                              | Brazeing                          |                |                |                |                |
|  |  | Diameter                          | 1/2                               |                | 5/8            |                |                |
|  | HP/LP Gas Pipe                             | Type                              | Brazeing                          |                |                |                |                |
|  |  | Diameter                          | 3/4                               |                | 7/8            |                |                |
| Suction Gas Pipe                         | Type                                       | Brazeing                          |                                   |                |                |                |                |
|  | Diameter                                   | 3/4                               | 7/8                               | 1-1/8          |                |                |                |
| Furthest Piping Length                   | Equivalent Length                          | ft                                | 606.9                             |                |                |                |                |
|  | Real Length                                | ft                                | 541.3                             |                |                |                |                |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 70~200                            |                |                |                |                |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 144.0                             | 192.0          | 240.0          | 288.0          | 336.0          |
|  | Maximum Number of Indoor Units             |                                   | 12                                | 17             | 21             | 25             | 30             |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 56.0                              | 61.0           | 60.0           | 63.0           |                |
|  | Heating                                    | dB(A)                             | 59.0                              | 61.0           | 61.0           | 64.0           | 67.0           |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |                |
|  | Heating                                    | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)  |                |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCPP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery

## MMYF-u

### 208-230V / Three-Phase / 60Hz



| Standard Model                           |  |                                   |                                  | UP1921FT9P-UL  |                | UP2161FT9P-UL  |                | UP2401FT9P-UL  |           |  |
|--|--|-----------------------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|-----------|--|
| Model Name                               |  | MMY-                              |                                  |                |                |                |                |                |           |  |
| Outdoor Unit Model Name                  |  | MMY-                              | MUP0961FT9P-UL                   | MUP0961FT9P-UL | MUP1441FT9P-UL | MUP0721FT9P-UL | MUP1441FT9P-UL | MUP0961FT9P-UL |           |  |
| Power Supply                             | Nominal Voltage                            | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz    |                |                |                |                |                |           |  |
|  | Voltage Range                              | V                                 | 187-253V                         |                |                |                |                |                |           |  |
| Cooling                                  | Nominal Capacity (*1)                      | kBTU/h                            | 192                              |                | 216            |                | 240            |                |           |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 184                              |                | 206            |                | 230            |                |           |  |
| Heating                                  | Nominal Capacity (*1)                      | kBTU/h                            | 216                              |                | 243            |                | 270            |                |           |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 206                              |                | 232            |                | 258            |                |           |  |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | 14.79                            |                | 16.72          |                | 18.78          |                |           |  |
|  |  | Rated EER (*1) (*2)               | 12.40                            |                | 12.30          |                | 12.20          |                |           |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | 13.30                            |                | 15.26          |                | 17.54          |                |           |  |
|  |  | Rated COP (*1) (*2)               | 4.54                             |                | 4.46           |                | 4.31           |                |           |  |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | 14.11                            |                | 16.18          |                | 18.32          |                |           |  |
|  |  | Rated EER (*1) (*2)               | 13.00                            |                | 12.70          |                | 12.60          |                |           |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | 13.95                            |                | 16.68          |                | 19.58          |                |           |  |
|  |  | Rated COP (*1) (*2)               | 4.33                             |                | 4.08           |                | 3.86           |                |           |  |
| Starting Current                         |  | A                                 | Soft Start                       |                |                |                |                |                |           |  |
| Dimensions                               | Unit                                       | Height                            | in 66.5                          |                |                |                |                |                |           |  |
|  |  | Width                             | 39.6                             |                | 51.4           |                | 39.6           |                | 51.4      |  |
|  |  | Depth                             | in 31.2                          |                |                |                |                |                |           |  |
| Weight                                   | Unit                                       | lbs                               | 532                              |                | 783            |                | 532            |                | 783       |  |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Twin                             |                | Triple         |                | Twin           |                | Triple    |  |
|  | Motor Output                               |                                   | kW 6.75 x 1                      |                | 10.40 x 1      |                | 4.54 x 1       |                | 10.40 x 1 |  |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan                    |                |                |                |                |                |           |  |
|  | Motor Output                               |                                   | kW 0.66 x 1                      |                | 0.48 x 2       |                | 0.43 x 1       |                | 0.48 x 2  |  |
|  | Air Volume                                 |                                   | cfm 6,357                        |                | 7,981          |                | 5,721          |                | 7,981     |  |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.321                            |                |                |                |                |                |           |  |
| Heat Exchanger                           |  |                                   | Finned Tube                      |                |                |                |                |                |           |  |
| Refrigerant                              | Name                                       |                                   | R410A                            |                |                |                |                |                |           |  |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs 13.2                         |                | 19.8           |                | 13.2           |                | 19.8      |  |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                 |                |                |                |                |                |           |  |
| Protective Devices                       |  |                                   | (*5)                             |                |                |                |                |                |           |  |
| Power Supply Wiring                      | MCA  | A                                 | 36.6                             |                | 51.5           |                | 36.4           |                | 51.5      |  |
|  | MOCP (*6)                                  | A                                 | 45                               |                | 60             |                | 45             |                | 60        |  |
| Piping Connections                       | Liquid Pipe                                | Type                              | Brazing                          |                |                |                |                |                |           |  |
|  |  | Diameter                          | in 1/2                           |                | 5/8            |                | 1/2            |                | 5/8       |  |
|  | HP/LP Gas Pipe                             | Type                              | Brazing                          |                |                |                |                |                |           |  |
|  |  | Diameter                          | in 3/4                           |                | 7/8            |                | 3/4            |                | 7/8       |  |
|  | Suction Gas Pipe                           | Type                              | Brazing                          |                |                |                |                |                |           |  |
|  |  | Diameter                          | in 7/8                           |                | 1-1/8          |                | 3/4            |                | 1-1/8     |  |
| Furthest Piping Length                   | Equivalent Length                          |                                   | ft 639.8                         |                |                |                |                |                |           |  |
|  | Real Length                                |                                   | ft 574.1                         |                |                |                |                |                |           |  |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | % 50~135                         |                |                |                |                |                |           |  |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 259.2                            |                | 291.6          |                | 324.0          |                |           |  |
|  | Maximum Number of Indoor Units             |                                   | 34                               |                | 38             |                | 43             |                |           |  |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 64.0                             |                | 63.8           |                | 65.1           |                |           |  |
|  | Heating                                    | dB(A)                             | 64.0                             |                | 65.2           |                | 65.8           |                |           |  |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)  |                |                |                |                |                |           |  |
|  | Heating                                    | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C) |                |                |                |                |                |           |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 208-230V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  |                |                |                |                |                |                |                |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Model Name                               |   | MMY-                              | UP2641FT9P-UL                              |                | UP2881FT9P-UL  |                | UP3121FT9P-UL  |                | UP3361FT9P-UL  |                |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681FT9P-UL                             | MUP0961FT9P-UL | MUP1441FT9P-UL | MUP1441FT9P-UL | MUP1681FT9P-UL | MUP1441FT9P-UL | MUP1681FT9P-UL | MUP1681FT9P-UL |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz              |                |                |                |                |                |                |                |
|  | Voltage Range                             | V                                 | 187-253V                                   |                |                |                |                |                |                |                |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 264  |                | 288            |                | 312            |                | 336            |                |
|  | Rated Capacity (*1)                       | kBTU/h                            | 252  |                | 276            |                | 298            |                | 320            |                |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 297  |                | 324            |                | 351            |                | 378            |                |
|  | Rated Capacity (*1)                       | kBTU/h                            | 284  |                | 308            |                | 334            |                | 360            |                |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | 20.96                                      |                | 23.11          |                | 25.67          |                | 29.38          |                |
|  |   | Rated EER (*1) (*2)               | 12.00                                      |                | 11.90          |                | 11.60          |                | 10.90          |                |
|  | Heating                                   | Rated power consumption (*1) (*2) | 20.66                                      |                | 22.58          |                | 24.65          |                | 28.74          |                |
|  |   | Rated COP (*1) (*2)               | 4.03                                       |                | 4.00           |                | 3.97           |                | 3.67           |                |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | 21.18                                      |                | 23.50          |                | 25.56          |                | 27.46          |                |
|  |   | Rated EER (*1) (*2)               | 11.90                                      |                |                |                | 11.70          |                |                |                |
|  | Heating                                   | Rated power consumption (*1) (*2) | 23.00                                      |                | 25.07          |                | 27.57          |                | 29.55          |                |
|  |   | Rated COP (*1) (*2)               | 3.62                                       |                | 3.60           |                | 3.55           |                | 3.57           |                |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |                |
| Dimensions                               | Unit                                      | Height                            | 66.5                                       |                |                |                |                |                |                |                |
|  |   | Width                             | 51.4                                       |                | 39.6           |                | 51.4           |                |                |                |
|  |   | Depth                             | 31.2                                       |                |                |                |                |                |                |                |
| Weight                                   | Unit                                      | lbs                               | 783  |                | 532            |                | 783            |                |                |                |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                | Triple         |                | Twin           |                | Triple         |                |
| Fan Unit                                 | Motor Output                              | kW                                | 13.00 x 1                                  |                | 6.75 x 1       |                | 10.40 x 1      |                | 13.00 x 1      |                |
|  | Type                                      |                                   | Propeller Fan                              |                |                |                |                |                |                |                |
| Fan Unit                                 | Motor Output                              | kW                                | 0.48 x 2                                   |                | 0.66 x 1       |                | 0.48 x 2       |                |                |                |
|  | Air Volume                                | cfm                               | 8,476                                      |                | 6,357          |                | 7,981          |                | 8,476          |                |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.321                                      |                |                |                |                |                |                |                |
| Heat Exchanger                           |   |                                   | Finned Tube                                |                |                |                |                |                |                |                |
| Refrigerant                              | Name                                      |                                   | R410A                                      |                |                |                |                |                |                |                |
|  | Charged Refrigerant Amount (*4)           | lbs                               | 19.8                                       |                | 13.2           |                | 19.8           |                |                |                |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |                |
| Protective Devices                       |   |                                   | (*5)                                       |                |                |                |                |                |                |                |
| Power Supply Wiring                      | MCA                                       | A                                 | 57.4                                       |                | 36.6           |                | 51.5           |                | 57.4           |                |
|  | MOCP (*6)                                 | A                                 | 80   |                | 45             |                | 60             |                | 80             |                |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazing                                    |                |                |                |                |                |                |                |
|  |   | Diameter                          | 5/8  |                | 1/2            |                | 5/8            |                |                |                |
|  | HP/LP Gas Pipe                            | Type                              | Brazing                                    |                |                |                |                |                |                |                |
|  |   | Diameter                          | 7/8  |                | 3/4            |                | 7/8            |                |                |                |
|  | Suction Gas Pipe                          | Type                              | Brazing                                    |                |                |                |                |                |                |                |
|  |   | Diameter                          | 1-1/8                                      |                | 7/8            |                | 1-1/8          |                |                |                |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 639.8                                      |                |                |                |                |                |                |                |
|  | Real Length                               | ft                                | 574.1                                      |                |                |                |                |                |                |                |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~135                                     |                |                |                |                |                |                |                |
|  | Maximum Capacity of Combined Indoor Units |                                   | 356.4                                      |                | 388.8          |                | 421.2          |                | 453.6          |                |
|  | Maximum Number of Indoor Units            |                                   | 47   |                | 51             |                | 56             |                | 60             |                |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 65.1                                       |                | 66.0           |                | 68.8           |                | 70.0           |                |
|  | Heating                                   | dB(A)                             | 68.0                                       |                | 67.0           |                | 68.8           |                | 70.0           |                |
| Operation Temperature Range              | Cooling                                   | ° F WB                            | 23.0 to 125.0 (-5.0 to 52.0° C)            |                |                |                |                |                |                |                |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 208-230V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  | UP3601FT9P-UL  |                |                | UP3841FT9P-UL  |                |                | UP4081FT9P-UL  |                |  |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               |   | MMY-                              | UP3601FT9P-UL                              |                |                | UP3841FT9P-UL  |                |                | UP4081FT9P-UL  |                |                |  |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681FT9P-UL                             | MUP0961FT9P-UL | MUP0961FT9P-UL | MUP1441FT9P-UL | MUP1441FT9P-UL | MUP0961FT9P-UL | MUP1681FT9P-UL | MUP1441FT9P-UL | MUP0961FT9P-UL |  |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz              |                |                |                |                |                |                |                |                |  |
|  | Voltage Range                             | V                                 | 187-253V                                   |                |                |                |                |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 360  |                |                | 384            |                |                | 408            |                |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 342  |                |                | 366            |                |                | 390            |                |                |  |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 405  |                |                | 432            |                |                | 459            |                |                |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 386  |                |                | 412            |                |                | 438            |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | 31.44                                      |                |                | 33.59          |                |                | 36.90          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 10.90                                      |                |                | 10.90          |                |                | 10.60          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 31.14                                      |                |                | 33.27          |                |                | 35.61          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.63                                       |                |                | 3.63           |                |                | 3.60           |                |                |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | 30.17                                      |                |                | 32.39          |                |                | 35.27          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 11.30                                      |                |                | 11.30          |                |                | 11.10          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 31.88                                      |                |                | 33.77          |                |                | 35.89          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.55                                       |                |                | 3.58           |                |                | 3.58           |                |                |  |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |                |                |  |
| Dimensions                               | Unit                                      | Height                            | in 66.5                                    |                |                |                |                |                |                |                |                |  |
|  |   | Width                             | in 51.4                                    | in 39.6        |                |                | in 51.4        | in 39.6        |                | in 51.4        | in 39.6        |  |
|  |   | Depth                             | in 31.2                                    |                |                |                |                |                |                |                |                |  |
| Weight                                   | Unit                                      | lbs                               | 783  | 532            |                | 783            | 532            |                | 783            | 532            |                |  |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor | Triple         | Twin           |                | Triple         | Twin           |                | Triple         | Twin           |  |
| Fan Unit                                 | Motor Output                              | kW                                | 13.00 x 1                                  | 6.75 x 1       |                | 10.40 x 1      | 6.75 x 1       |                | 13.00 x 1      | 6.75 x 1       |                |  |
|  | Type                                      | Propeller Fan                     |  |                |                |                |                |                |                |                |                |  |
| Fan Unit                                 | Motor Output                              | kW                                | 0.48 x 2                                   | 0.66 x 1       |                | 0.48 x 2       | 0.66 x 1       |                | 0.48 x 2       | 0.66 x 1       |                |  |
|  | Air Volume                                | cfm                               | 8,476                                      | 6,357          |                | 7,981          | 6,357          |                | 8,476          | 7,981          |                |  |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.321                                      |                |                |                |                |                |                |                |                |  |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |                |                |                |  |
| Refrigerant                              | Name                                      | R410A                             |  |                |                |                |                |                |                |                |                |  |
|  | Charged Refrigerant Amount (*4)           | lbs                               | 19.8                                       | 13.2           |                | 19.8           | 13.2           |                | 19.8           | 13.2           |                |  |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |                |                |  |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |                |                |                |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 57.4                                       | 36.6           |                | 51.5           | 36.6           |                | 57.4           | 36.6           |                |  |
|  | MOCP (*6)                                 | A                                 | 80   | 45             |                | 60             | 45             |                | 80             | 45             |                |  |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazeing                                   |                |                |                |                |                |                |                |                |  |
|  |   | Diameter                          | in 5/8                                     | in 1/2         |                | in 5/8         | in 1/2         |                | in 5/8         | in 1/2         |                |  |
|  | HP/LP Gas Pipe                            | Type                              | Brazeing                                   |                |                |                |                |                |                |                |                |  |
|  |   | Diameter                          | in 7/8                                     | in 3/4         |                | in 7/8         | in 3/4         |                | in 7/8         | in 3/4         |                |  |
| Suction Gas Pipe                         | Type                                      | Brazeing                          |  |                |                |                |                |                |                |                |                |  |
|  | Diameter                                  | in 1-1/8                          | in 7/8                                     |                | in 1-1/8       | in 7/8         |                | in 1-1/8       | in 7/8         |                |                |  |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 656.2                                      |                |                |                |                |                |                |                |                |  |
|  | Real Length                               | ft                                | 590.5                                      |                |                |                |                |                |                |                |                |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~135                                     |                |                |                |                |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units |                                   | 486.0                                      |                |                | 518.4          |                |                | 550.8          |                |                |  |
|  | Maximum Number of Indoor Units            |                                   | 64   |                |                | 69             |                |                | 70             |                |                |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 66.5                                       |                |                | 67.2           |                |                | 69.4           |                |                |  |
|  | Heating                                   | dB(A)                             | 68.8                                       |                |                | 68.0           |                |                | 69.4           |                |                |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)            |                |                |                |                |                |                |                |                |  |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 208-230V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  | UP4321FT9P-UL  |                |                | UP4561FT9P-UL  |                |                | UP4801FT9P-UL  |                |                | UP5041FT9P-UL  |                |  |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               |   | MMY-                              |  |                |                |                |                |                |                |                |                |                |                |                |  |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681FT9P-UL                             | MUP1681FT9P-UL | MUP0961FT9P-UL | MUP1681FT9P-UL | MUP1441FT9P-UL | MUP1441FT9P-UL | MUP1681FT9P-UL | MUP1681FT9P-UL | MUP1441FT9P-UL | MUP1681FT9P-UL | MUP1681FT9P-UL | MUP1681FT9P-UL |  |
| Power Supply                             |   | Nominal Voltage                   | 208-230V / Three-Phase / 60Hz              |                |                |                |                |                |                |                |                |                |                |                |  |
|  |   | Voltage Range                     | 187-253V                                   |                |                |                |                |                |                |                |                |                |                |                |  |
| Cooling                                  |   | Nominal Capacity (*1)             | 432  |                |                | 456            |                |                | 480            |                |                | 504            |                |                |  |
|  |   | Rated Capacity (*1)               | 412  |                |                | 434            |                |                | 456            |                |                | 480            |                |                |  |
| Heating                                  |   | Nominal Capacity (*1)             | 486  |                |                | 513            |                |                | 540            |                |                | 567            |                |                |  |
|  |   | Rated Capacity (*1)               | 462  |                |                | 488            |                |                | 514            |                |                | 540            |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | 40.55                                      |                |                | 42.72          |                |                | 45.80          |                |                | 49.71          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 10.20                                      |                |                | 10.20          |                |                | 10.00          |                |                | 9.70           |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 37.84                                      |                |                | 40.34          |                |                | 43.49          |                |                | 47.04          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.58                                       |                |                | 3.55           |                |                | 3.46           |                |                | 3.36           |                |                |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | 38.07                                      |                |                | 40.31          |                |                | 43.04          |                |                | 47.09          |                |                |  |
|  |   | Rated EER (*1) (*2)               | 10.80                                      |                |                | 10.60          |                |                | 10.20          |                |                | 10.20          |                |                |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 37.95                                      |                |                | 40.31          |                |                | 42.81          |                |                | 45.18          |                |                |  |
|  |   | Rated COP (*1) (*2)               | 3.57                                       |                |                | 3.55           |                |                | 3.52           |                |                | 3.50           |                |                |  |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |                |                |                |                |                |  |
| Dimensions                               | Unit                                      | Height                            | 66.5                                       |                |                |                |                |                |                |                |                |                |                |                |  |
|  |   | Width                             | 51.4                                       |                |                | 39.6           |                |                | 51.4           |                |                | 31.2           |                |                |  |
|  |   | Depth                             | 31.2                                       |                |                |                |                |                |                |                |                |                |                |                |  |
| Weight                                   | Unit                                      | lbs                               | 783  |                |                | 532            |                |                | 783            |                |                | 783            |                |                |  |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                | Triple         |                |                | Twin           |                |                | Triple         |                |                |                |  |
| Fan Unit                                 | Motor Output                              |                                   | 13.00 x 1                                  |                |                | 6.75 x 1       |                |                | 13.00 x 1      |                |                | 10.40 x 1      |                |                |  |
|  | Type                                      | Propeller Fan                     |  |                |                |                |                |                |                |                |                |                |                |                |  |
| Fan Unit                                 | Motor Output                              |                                   | 0.48 x 2                                   |                |                | 0.66 x 1       |                |                | 0.48 x 2       |                |                | 0.48 x 2       |                |                |  |
|  | Air Volume                                |                                   | 8,476                                      |                |                | 6,357          |                |                | 8,476          |                |                | 7,981          |                |                |  |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.321                                      |                |                |                |                |                |                |                |                |                |                |                |  |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |                |                |                |                |                |                |  |
| Refrigerant                              |   | R410A                             |  |                |                |                |                |                |                |                |                |                |                |                |  |
| Charged Refrigerant Amount (*4)          |   | lbs                               | 19.8                                       |                |                | 13.2           |                |                | 19.8           |                |                | 19.8           |                |                |  |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |                |                |                |                |                |  |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |                |                |                |                |                |                |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 57.4                                       |                |                | 36.6           |                |                | 57.4           |                |                | 51.5           |                |                |  |
|  | MOCP (*6)                                 | A                                 | 80   |                |                | 45             |                |                | 80             |                |                | 60             |                |                |  |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazing                                    |                |                |                |                |                |                |                |                |                |                |                |  |
|  |   | Diameter                          | 5/8  |                |                | 1/2            |                |                | 5/8            |                |                | 5/8            |                |                |  |
|  | HP/LP Gas Pipe                            | Type                              | Brazing                                    |                |                |                |                |                |                |                |                |                |                |                |  |
|  |   | Diameter                          | 7/8  |                |                | 3/4            |                |                | 7/8            |                |                | 7/8            |                |                |  |
| Suction Gas Pipe                         | Type                                      | Brazing                           |  |                |                |                |                |                |                |                |                |                |                |                |  |
|  | Diameter                                  | 1-1/8                             |  |                | 7/8            |                |                | 1-1/8          |                |                | 1-1/8          |                |                |                |  |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 656.2                                      |                |                |                |                |                |                |                |                |                |                |                |  |
|  | Real Length                               | ft                                | 590.5                                      |                |                |                |                |                |                |                |                |                |                |                |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~135                                     |                |                |                |                |                |                |                |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units |                                   | 583.2                                      |                |                | 615.6          |                |                | 648.0          |                |                | 680.4          |                |                |  |
|  | Maximum Number of Indoor Units            |                                   | 72   |                |                | 73             |                |                | 74             |                |                | 75             |                |                |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 67.2                                       |                |                | 67.8           |                |                | 67.8           |                |                | 67.8           |                |                |  |
|  | Heating                                   | dB(A)                             | 70.5                                       |                |                | 70.0           |                |                | 71.0           |                |                | 71.8           |                |                |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)            |                |                |                |                |                |                |                |                |                |                |                |  |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 460V / Three-Phase / 60Hz



| Standard Model                           |  |                                   |          | MUP0721FT6P-UL                    | MUP0961FT6P-UL | MUP1201FT6P-UL | MUP1441FT6P-UL | MUP1681FT6P-UL | MUP1921FT6P-UL |
|--|--|-----------------------------------|----------|-----------------------------------|----------------|----------------|----------------|----------------|----------------|
| Model Name                               |  | MMY-                              |          |                                   |                |                |                |                |                |
| Power Supply                             |  | Nominal Voltage                   | V/Ph/Hz  | 460V / Three-Phase / 60Hz         |                |                |                |                |                |
|  |  | Voltage Range                     | V        | 414-506V                          |                |                |                |                |                |
| Cooling                                  |  | Nominal Capacity (*1)             | kBTU/h   | 72                                | 96             | 120            | 144            | 168            | 192            |
|  |  | Rated Capacity (*1)               | kBTU/h   | 69                                | 92             | 115            | 138            | 160            | 184            |
| Heating                                  |  | Nominal Capacity (*1)             | kBTU/h   | 81                                | 108            | 135            | 162            | 189            | 216            |
|  |  | Rated Capacity (*1)               | kBTU/h   | 77                                | 103            | 129            | 154            | 180            | 206            |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW       | 4.97                              | 7.41           | 9.26           | 11.31          | 13.97          | 16.78          |
|  |  | Rated EER (*1) (*2)               | BTU/W    | 13.90                             | 12.40          | 12.40          | 12.20          | 11.50          | 11.00          |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW       | 4.81                              | 6.59           | 8.76           | 10.99          | 13.39          | 16.17          |
|  |  | Rated COP (*1) (*2)               | BTU/W    | 4.69                              | 4.58           | 4.32           | 4.11           | 3.94           | 3.73           |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW       | 4.69                              | 7.39           | 8.60           | 10.64          | 13.22          | 15.30          |
|  |  | Rated EER (*1) (*2)               | BTU/W    | 14.70                             | 12.40          | 13.40          | 13.00          | 12.10          | 12.00          |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW       | 4.61                              | 6.73           | 8.53           | 10.27          | 13.17          | 16.02          |
|  |  | Rated COP (*1) (*2)               | BTU/W    | 4.90                              | 4.49           | 4.43           | 4.39           | 4.01           | 3.77           |
| Starting Current                         |  |                                   | A        | Soft Start                        |                |                |                |                |                |
| Dimensions                               | Unit                                       | Height                            | in       | 66.5                              |                |                |                |                |                |
|  |  | Width                             | in       | 39.6                              |                |                | 51.4           |                |                |
|  |  | Depth                             | in       | 31.2                              |                |                |                |                |                |
| Weight                                   | Unit                                       |                                   | lbs      | 552                               |                | 686            |                | 776            | 829            |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   |          | Twin                              |                |                | Triple         |                |                |
|  | Motor Output                               |                                   | kW       | 4.54 x 1                          | 6.75 x 1       | 8.60 x 1       | 10.40 x 1      | 13.00 x 1      | 7.74 x 2       |
| Fan Unit                                 | Type                                       |                                   |          | Propeller Fan                     |                |                |                |                |                |
|  | Motor Output                               |                                   | kW       | 0.43 x 1                          | 0.66 x 1       | 0.33 x 2       | 0.48 x 2       |                | 0.73 x 2       |
|  | Air Volume                                 |                                   | cfm      | 5,721                             | 6,357          | 7,416          | 7,981          | 8,476          | 9,712          |
| Maximum External Static Pressure (*3)    |  |                                   | in H2O   | 0.321                             |                |                |                |                |                |
| Heat Exchanger                           |  |                                   |          | Finned Tube                       |                |                |                |                |                |
| Refrigerant                              | Name                                       |                                   |          | R410A                             |                |                |                |                |                |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs      | 13.2                              |                |                | 19.8           |                |                |
| High-Pressure Switch (Protective Device) |  |                                   | psi      | ON: 464 OFF: 601                  |                |                |                |                |                |
| Protective Devices                       |  |                                   |          | (*5)                              |                |                |                |                |                |
| Power Supply Wiring                      | MCA  | A                                 |          | 17.4                              | 17.5           | 21.3           | 24.6           | 27.4           | 31.8           |
|  | MOC (*6)                                   | A                                 |          | 20                                |                | 25             | 30             | 40             | 45             |
| Piping Connections                       | Liquid Pipe                                | Type                              |          | Brazeing                          |                |                |                |                |                |
|  |  | Diameter                          | in       | 1/2                               |                |                | 5/8            |                |                |
|  | HP/LP Gas Pipe                             | Type                              |          | Brazeing                          |                |                |                |                |                |
|  |  | Diameter                          | in       | 3/4                               |                |                | 7/8            |                |                |
| Suction Gas Pipe                         | Type                                       |                                   | Brazeing |                                   |                |                |                |                |                |
|  | Diameter                                   | in                                | 3/4      | 7/8                               | 1-1/8          |                |                |                |                |
| Furthest Piping Length                   | Equivalent Length                          |                                   | ft       | 606.9                             |                |                |                |                |                |
|  | Real Length                                |                                   | ft       | 541.3                             |                |                |                |                |                |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | %        | 70~200                            |                |                |                |                |                |
|  | Maximum Capacity of Combined Indoor Units  |                                   |          | 144.0                             | 192.0          | 240.0          | 288.0          | 336.0          | 384.0          |
|  | Maximum Number of Indoor Units             |                                   |          | 12.0                              | 17.0           | 21.0           | 25.0           | 30.0           | 34.0           |
| Sound Pressure Level                     | Cooling                                    |                                   | dB(A)    | 56.0                              | 61.0           | 60.0           | 63.0           |                | 68.0           |
|  | Heating                                    |                                   | dB(A)    | 59.0                              | 61.0           |                | 64.0           | 67.0           | 71.0           |
| Operation Temperature Range              | Cooling                                    |                                   | ° F DB   | -10.0 to 125.0 (-23.3 to 52.0° C) |                |                |                |                |                |
|  | Heating                                    |                                   | ° F WB   | -22.0 to 60.0 (-30.0 to 15.5° C)  |                |                |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOC: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 460V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  | UP1921FT6P-UL  |                | UP2161FT6P-UL  |                | UP2401FT6P-UL  |                |      |        |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|------|--------|
| Model Name                               |   |                                   | MMY-                                       |                |                |                |                |                |                |      |        |
| Outdoor Unit Model Name                  |   |                                   | MMY-                                       | MUP0961FT6P-UL | MUP0961FT6P-UL | MUP1441FT6P-UL | MUP0721FT6P-UL | MUP1441FT6P-UL | MUP0961FT6P-UL |      |        |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 460V / Three-Phase / 60Hz                  |                |                |                |                |                |                |      |        |
|  | Voltage Range                             | V                                 | 414-506V                                   |                |                |                |                |                |                |      |        |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 192  |                | 216            |                | 240            |                |                |      |        |
|  | Rated Capacity (*1)                       | kBTU/h                            | 184  |                | 206            |                | 230            |                |                |      |        |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 216  |                | 243            |                | 270            |                |                |      |        |
|  | Rated Capacity (*1)                       | kBTU/h                            | 206  |                | 232            |                | 258            |                |                |      |        |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW   | 14.79          |                | 16.72          |                | 18.78          |                |      |        |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      | 12.40          |                | 12.30          |                | 12.20          |                |      |        |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   | 13.30          |                | 15.26          |                | 17.54          |                |      |        |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      | 4.54           |                | 4.46           |                | 4.31           |                |      |        |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW   | 14.11          |                | 16.18          |                | 18.32          |                |      |        |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      | 13.00          |                | 12.70          |                | 12.60          |                |      |        |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   | 13.95          |                | 16.68          |                | 19.58          |                |      |        |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      | 4.33           |                | 4.08           |                | 3.86           |                |      |        |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |      |        |
| Dimensions                               | Unit                                      | Height                            | in   | 66.5           |                |                |                |                |                |      |        |
|  |   | Width                             | in   | 39.6           |                | 51.4           |                | 39.6           |                | 51.4 |        |
|  |   | Depth                             | in   | 31.2           |                |                |                |                |                |      |        |
| Weight                                   | Unit                                      | lbs                               | 552  |                | 776            |                | 552            |                | 776            |      |        |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                | Twin           |                | Triple         |                | Twin           |      | Triple |
| Fan Unit                                 | Motor Output                              | kW                                | 6.75 x 1                                   |                | 10.40 x 1      |                | 4.54 x 1       |                | 10.40 x 1      |      |        |
|  |   | Type                              | Propeller Fan                              |                |                |                |                |                |                |      |        |
| Fan Unit                                 | Air Volume                                | kW                                | 0.66 x 1                                   |                | 0.48 x 2       |                | 0.43 x 1       |                | 0.48 x 2       |      |        |
|  |   | cfm                               | 6,357                                      |                | 7,981          |                | 5,721          |                | 7,981          |      |        |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.321                                      |                |                |                |                |                |                |      |        |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |                |      |        |
| Refrigerant                              | Name                                      |                                   | R410A                                      |                |                |                |                |                |                |      |        |
|  | Charged Refrigerant Amount (*4)           |                                   | lbs  | 13.2           |                | 19.8           |                | 13.2           |                | 19.8 |        |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |      |        |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |                |      |        |
| Power Supply Wiring                      | MCA                                       | A                                 | 17.5                                       |                | 24.6           |                | 17.4           |                | 24.6           |      |        |
|  | MOCP (*6)                                 | A                                 | 20   |                | 30             |                | 20             |                | 30             |      |        |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazing                                    |                |                |                |                |                |                |      |        |
|  |   | Diameter                          | in   | 1/2            |                | 5/8            |                | 1/2            |                | 5/8  |        |
|  | HP/LP Gas Pipe                            | Type                              | Brazing                                    |                |                |                |                |                |                |      |        |
|  |   | Diameter                          | in   | 3/4            |                | 7/8            |                | 3/4            |                | 7/8  |        |
| Suction Gas Pipe                         | Type                                      | Brazing                           |  |                |                |                |                |                |                |      |        |
|  | Diameter                                  | in                                | 7/8  |                | 1-1/8          |                | 3/4            |                | 1-1/8          |      |        |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 639.8                                      |                |                |                |                |                |                |      |        |
|  | Real Length                               | ft                                | 574.1                                      |                |                |                |                |                |                |      |        |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~135                                     |                |                |                |                |                |                |      |        |
|  | Maximum Capacity of Combined Indoor Units |                                   | 259.2                                      |                | 291.6          |                | 324.0          |                |                |      |        |
|  | Maximum Number of Indoor Units            |                                   | 34   |                | 38             |                | 43             |                |                |      |        |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 64.0                                       |                | 63.8           |                | 65.1           |                |                |      |        |
|  | Heating                                   | dB(A)                             | 64.0                                       |                | 65.2           |                | 65.8           |                |                |      |        |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)            |                |                |                |                |                |                |      |        |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |      |        |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 460V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |                                  | UP2641FT6P-UL    |                | -UP2881FT6P-UL |                | UP3121FT6P-UL  |                | UP3361FT6P-UL  |                |
|--|---|-----------------------------------|----------------------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Model Name                               |   |                                   | MMY-                             |                  |                |                |                |                |                |                |                |
| Outdoor Unit Model Name                  |   |                                   | MMY-                             | MUP1681FT6P-UL   | MUP0961FT6P-UL | MUP1441FT6P-UL | MUP1441FT6P-UL | MUP1681FT6P-UL | MUP1441FT6P-UL | MUP1681FT6P-UL | MUP1681FT6P-UL |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 460V / Three-Phase / 60Hz        |                  |                |                |                |                |                |                |                |
|  | Voltage Range                             | V                                 | 414-506V                         |                  |                |                |                |                |                |                |                |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 264                              |                  | 288            |                | 312            |                | 336            |                |                |
|  | Rated Capacity (*1)                       | kBTU/h                            | 252                              |                  | 276            |                | 298            |                | 320            |                |                |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 297                              |                  | 324            |                | 351            |                | 378            |                |                |
|  | Rated Capacity (*1)                       | kBTU/h                            | 284                              |                  | 308            |                | 334            |                | 360            |                |                |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW                               | 20.96            |                | 23.11          |                | 25.67          |                | 29.38          |                |
|  |   | Rated EER (*1) (*2)               | BTU/W                            | 12.00            |                | 11.90          |                | 11.60          |                | 10.90          |                |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW                               | 20.66            |                | 22.58          |                | 24.65          |                | 28.74          |                |
|  |   | Rated COP (*1) (*2)               | BTU/W                            | 4.03             |                | 4.00           |                | 3.97           |                | 3.67           |                |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW                               | 21.18            |                | 23.50          |                | 25.56          |                | 27.46          |                |
|  |   | Rated EER (*1) (*2)               | BTU/W                            | 11.90            |                |                |                | 11.70          |                |                |                |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW                               | 23.00            |                | 25.07          |                | 27.57          |                | 29.55          |                |
|  |   | Rated COP (*1) (*2)               | BTU/W                            | 3.62             |                | 3.60           |                | 3.55           |                | 3.57           |                |
| Starting Current                         |   |                                   | A                                | Soft Start       |                |                |                |                |                |                |                |
| Dimensions                               | Unit                                      | Height                            | in                               | 66.5             |                |                |                |                |                |                |                |
|  |   | Width                             | in                               | 51.4             |                | 39.6           |                | 51.4           |                |                |                |
|  |   | Depth                             | in                               | 31.2             |                |                |                |                |                |                |                |
| Weight                                   | Unit                                      | lbs                               | 776                              |                  | 552            |                | 776            |                |                |                |                |
|  |   | Compressor                        |                                  |                  | Triple         |                | Twin           |                | Triple         |                |                |
| Fan Unit                                 | Motor Output                              |                                   | kW                               | 13.00 x 1        |                | 6.75 x 1       |                | 10.40 x 1      |                | 13.00 x 1      |                |
|  | Air Volume                                |                                   | cfm                              | 8,476            |                | 6,357          |                | 7,981          |                | 8,476          |                |
| Maximum External Static Pressure (*3)    |   |                                   | in H2O                           | 0.321            |                |                |                |                |                |                |                |
| Heat Exchanger                           |   |                                   | Finned Tube                      |                  |                |                |                |                |                |                |                |
| Refrigerant                              | Name                                      |                                   | R410A                            |                  |                |                |                |                |                |                |                |
|  | Charged Refrigerant Amount (*4)           |                                   | lbs                              | 19.8             |                | 13.2           |                | 19.8           |                |                |                |
| High-Pressure Switch (Protective Device) |   |                                   | psi                              | ON: 464 OFF: 601 |                |                |                |                |                |                |                |
| Protective Devices                       |   |                                   | (*5)                             |                  |                |                |                |                |                |                |                |
| Power Supply Wiring                      | MCA                                       | A                                 | 27.4                             |                  | 17.5           |                | 24.6           |                | 27.4           |                | 27.4           |
|  | MOCP (*6)                                 | A                                 | 40                               |                  | 20             |                | 30             |                | 40             |                | 30             |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazing                          |                  |                |                |                |                |                |                |                |
|  |   | Diameter                          | in                               | 5/8              |                | 1/2            |                | 5/8            |                |                |                |
|  | HP/LP Gas Pipe                            | Type                              | Brazing                          |                  |                |                |                |                |                |                |                |
|  |   | Diameter                          | in                               | 7/8              |                | 3/4            |                | 7/8            |                |                |                |
| Suction Gas Pipe                         | Type                                      | Brazing                           |                                  |                  |                |                |                |                |                |                |                |
|  | Diameter                                  | in                                | 1-1/8                            |                  | 7/8            |                | 1-1/8          |                |                |                |                |
| Furthest Piping Length                   | Equivalent Length                         |                                   | ft                               | 639.8            |                |                |                |                |                |                |                |
|  | Real Length                               |                                   | ft                               | 574.1            |                |                |                |                |                |                |                |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~135                           |                  |                |                |                |                |                |                |                |
|  | Maximum Capacity of Combined Indoor Units |                                   |                                  | 356.4            |                | 388.8          |                | 421.2          |                | 453.6          |                |
|  | Maximum Number of Indoor Units            |                                   |                                  | 47               |                | 51             |                | 56             |                | 60             |                |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 65.1                             |                  | 67.0           |                | 66.0           |                | 70.0           |                |                |
|  | Heating                                   | dB(A)                             | 68.0                             |                  | 67.0           |                | 68.8           |                | 70.0           |                |                |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)  |                  |                |                |                |                |                |                |                |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C) |                  |                |                |                |                |                |                |                |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 460V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  | UP3601FT6P-UL  |                |                | UP3841FT6P-UL  |                |                | UP4081FT6P-UL  |                |           |           |  |          |  |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|-----------|--|----------|--|
| Model Name                               |   | MMY-                              | UP3601FT6P-UL                              |                |                | UP3841FT6P-UL  |                |                | UP4081FT6P-UL  |                |                |           |           |  |          |  |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681FT6P-UL                             | MUP0961FT6P-UL | MUP0961FT6P-UL | MUP1441FT6P-UL | MUP1441FT6P-UL | MUP0961FT6P-UL | MUP1681FT6P-UL | MUP1441FT6P-UL | MUP0961FT6P-UL |           |           |  |          |  |
| Power Supply                             |   | Nominal Voltage                   | 460V / Three-Phase / 60Hz                  |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  |   | Voltage Range                     | 414-506V                                   |                |                |                |                |                |                |                |                |           |           |  |          |  |
| Cooling                                  |   | Nominal Capacity (*1)             | 360  |                |                | 384            |                |                | 408            |                |                |           |           |  |          |  |
|  |   | Rated Capacity (*1)               | 342  |                |                | 366            |                |                | 390            |                |                |           |           |  |          |  |
| Heating                                  |   | Nominal Capacity (*1)             | 405  |                |                | 432            |                |                | 459            |                |                |           |           |  |          |  |
|  |   | Rated Capacity (*1)               | 386  |                |                | 412            |                |                | 438            |                |                |           |           |  |          |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | 31.44                                      |                |                | 33.59          |                |                | 36.90          |                |                |           |           |  |          |  |
|  |   | Rated EER (*1) (*2)               | 10.90                                      |                |                | 10.90          |                |                | 10.60          |                |                |           |           |  |          |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 31.14                                      |                |                | 33.27          |                |                | 35.61          |                |                |           |           |  |          |  |
|  |   | Rated COP (*1) (*2)               |  |                |                | 3.63           |                |                | 3.60           |                |                |           |           |  |          |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | 30.17                                      |                |                | 32.39          |                |                | 35.27          |                |                |           |           |  |          |  |
|  |   | Rated EER (*1) (*2)               |  |                |                | 11.30          |                |                | 11.10          |                |                |           |           |  |          |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | 31.88                                      |                |                | 33.77          |                |                | 35.89          |                |                |           |           |  |          |  |
|  |   | Rated COP (*1) (*2)               | 3.55                                       |                |                |                |                |                | 3.58           |                |                |           |           |  |          |  |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |                |                |           |           |  |          |  |
| Dimensions                               | Unit                                      | Height                            | 66.5                                       |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  |   | Width                             | 51.4                                       | 39.6           |                |                | 51.4           |                |                | 39.6           |                |           |           |  |          |  |
|  |   | Depth                             | 31.2                                       |                |                |                |                |                |                |                |                |           |           |  |          |  |
| Weight                                   | Unit                                      | lbs                               | 776  | 552            |                |                | 776            |                |                | 552            |                |           |           |  |          |  |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                | Triple         | Twin           |                | Triple         |                | Twin           |                | Triple    |           |  |          |  |
| Fan Unit                                 | Motor Output                              |                                   | kW   |                | 13.00 x 1      | 6.75 x 1       |                | 10.40 x 1      |                | 6.75 x 1       |                | 13.00 x 1 | 10.40 x 1 |  | 6.75 x 1 |  |
|  | Type                                      |                                   | Propeller Fan                              |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  | Air Volume                                |                                   | cfm  |                | 8,476          | 6,357          |                |                | 7,981          |                |                | 6,357     |           |  |          |  |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.321                                      |                |                |                |                |                |                |                |                |           |           |  |          |  |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |                |                |                |           |           |  |          |  |
| Refrigerant                              | Name                                      |                                   | R410A                                      |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  | Charged Refrigerant Amount (*4)           |                                   | lbs  | 19.8           | 13.2           |                |                | 19.8           |                |                | 13.2           |           |           |  |          |  |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |                |                |           |           |  |          |  |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |                |                |                |           |           |  |          |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 27.4                                       | 17.5           |                |                | 24.6           |                |                | 17.5           |                |           |           |  |          |  |
|  | MOCP (*6)                                 | A                                 | 40   | 20             |                |                | 30             |                |                | 20             |                |           |           |  |          |  |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazeing                                   |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  |   | Diameter                          | 5/8  | 1/2            |                |                | 5/8            |                |                | 1/2            |                |           |           |  |          |  |
|  | HP/LP Gas Pipe                            | Type                              | Brazeing                                   |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  |   | Diameter                          | 7/8  | 3/4            |                |                | 7/8            |                |                | 3/4            |                |           |           |  |          |  |
| Suction Gas Pipe                         | Type                                      | Brazeing                          |  |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  | Diameter                                  | 1-1/8                             | 7/8  |                |                | 1-1/8          |                |                | 7/8            |                |                |           |           |  |          |  |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 656.2                                      |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  | Real Length                               | ft                                | 590.5                                      |                |                |                |                |                |                |                |                |           |           |  |          |  |
| Indoor Units                             | Total Capacity                            |                                   | % of Outdoor Unit Capacity (*7)            | 50~135         |                |                |                |                |                |                |                |           |           |  |          |  |
|  | Maximum Capacity of Combined Indoor Units |                                   |  | 486.0          |                |                | 518.4          |                |                | 550.8          |                |           |           |  |          |  |
|  | Maximum Number of Indoor Units            |                                   |  | 64             |                |                | 69             |                |                | 70             |                |           |           |  |          |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 66.5                                       |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  | Heating                                   | dB(A)                             | 68.8                                       |                |                | 68.0           |                |                | 69.4           |                |                |           |           |  |          |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)            |                |                |                |                |                |                |                |                |           |           |  |          |  |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |                |                |           |           |  |          |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series Heat Recovery MMYF-u 460V / Three-Phase / 60Hz



| Standard Model                           |   |                                   |  |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------|--|-----------|------|--|--|------|--|--|--|--|--|
| Model Name                               |   | MMY-                              | UP4321FT6P-UL                              |                |                | UP4561FT6P-UL  |                |                | UP4801FT6P-UL  |                |                | UP5041FT6P-UL  |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP1681FT6P-UL                             | MUP1681FT6P-UL | MUP0961FT6P-UL | MUP1681FT6P-UL | MUP1441FT6P-UL | MUP1441FT6P-UL | MUP1681FT6P-UL | MUP1681FT6P-UL | MUP1441FT6P-UL | MUP1681FT6P-UL | MUP1681FT6P-UL | MUP1681FT6P-UL |           |  |           |      |  |  |      |  |  |  |  |  |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 460V / Three-Phase / 60Hz                  |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  | Voltage Range                             | V                                 | 414-506V                                   |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 432  |                |                | 456            |                |                | 480            |                |                | 504            |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 412  |                |                | 434            |                |                | 456            |                |                | 480            |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 486  |                |                | 513            |                |                | 540            |                |                | 567            |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 462  |                |                | 488            |                |                | 514            |                |                | 540            |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW   |                |                | 40.55          |                |                | 42.72          |                |                | 45.80          |                |                | 49.71     |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      |                |                | 10.20          |                |                | 10.20          |                |                | 10.00          |                |                | 9.70      |  |           |      |  |  |      |  |  |  |  |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   |                |                | 37.84          |                |                | 40.34          |                |                | 43.49          |                |                | 47.04     |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      |                |                | 3.58           |                |                | 3.55           |                |                | 3.46           |                |                | 3.36      |  |           |      |  |  |      |  |  |  |  |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW   |                |                | 38.07          |                |                | 40.31          |                |                | 43.04          |                |                | 47.09     |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      |                |                | 10.80          |                |                | 10.60          |                |                | 10.20          |                |                | 10.20     |  |           |      |  |  |      |  |  |  |  |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   |                |                | 37.95          |                |                | 40.31          |                |                | 42.81          |                |                | 45.18     |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      |                |                | 3.57           |                |                | 3.55           |                |                | 3.52           |                |                | 3.50      |  |           |      |  |  |      |  |  |  |  |  |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Dimensions                               | Unit                                      | Height                            | in   |                |                |                |                |                |                |                |                |                |                |                | 66.5      |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Width                             | in   |                |                | 51.4           |                |                | 39.6           |                |                | 51.4           |                |                | 51.4      |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Depth                             | in   |                |                |                |                |                |                |                |                |                |                |                | 31.2      |  |           |      |  |  |      |  |  |  |  |  |
| Weight                                   | Unit                                      | lbs                               | 776  |                |                | 552            |                |                | 776            |                |                | 776            |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                | Triple         |                |                | Twin           |                |                | Triple         |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Fan Unit                                 | Motor Output                              |                                   | kW   |                | 13.00 x 1      |                | 6.75 x 1       |                | 13.00 x 1      |                | 10.40 x 1      |                | 13.00 x 1      |                | 10.40 x 1 |  | 13.00 x 1 |      |  |  |      |  |  |  |  |  |
|  | Type                                      | Propeller Fan                     |  |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Fan Unit                                 | Motor Output                              |                                   | kW   |                | 0.48 x 2       |                | 0.66 x 1       |                | 0.48 x 2       |                | 0.48 x 2       |                | 0.48 x 2       |                | 0.48 x 2  |  |           |      |  |  |      |  |  |  |  |  |
|  | Air Volume                                |                                   | cfm  |                | 8,476          |                | 6,357          |                | 8,476          |                | 7,981          |                | 8,476          |                | 7,981     |  | 8,476     |      |  |  |      |  |  |  |  |  |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.321                                      |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Refrigerant                              | Name                                      |                                   | R410A                                      |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  | Charged Refrigerant Amount (*4)           |                                   | lbs  | 19.8           |                |                | 13.2           |                |                | 19.8           |                |                | 19.8           |                |           |  |           |      |  |  |      |  |  |  |  |  |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 27.4                                       |                |                | 17.5           |                |                | 27.4           |                |                | 24.6           |                |                | 27.4      |  |           | 24.6 |  |  | 27.4 |  |  |  |  |  |
|  | MOCP (*6)                                 | A                                 | 40   |                |                | 20             |                |                | 40             |                |                | 30             |                |                | 40        |  |           | 30   |  |  | 40   |  |  |  |  |  |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazing                                    |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Diameter                          | in   |                |                | 5/8            |                |                | 1/2            |                |                | 5/8            |                |                | 5/8       |  |           |      |  |  |      |  |  |  |  |  |
|  | HP/LP Gas Pipe                            | Type                              | Brazing                                    |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  |   | Diameter                          | in   |                |                | 7/8            |                |                | 3/4            |                |                | 7/8            |                |                | 7/8       |  |           |      |  |  |      |  |  |  |  |  |
| Suction Gas Pipe                         | Type                                      | Brazing                           |  |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  | Diameter                                  | in                                |  |                | 1-1/8          |                |                | 7/8            |                |                | 1-1/8          |                |                | 1-1/8          |           |  |           |      |  |  |      |  |  |  |  |  |
| Furthest Piping Length                   | Equivalent Length                         |                                   | ft   |                |                |                |                |                |                |                |                |                |                |                | 656.2     |  |           |      |  |  |      |  |  |  |  |  |
|  | Real Length                               |                                   | ft   |                |                |                |                |                |                |                |                |                |                |                | 590.5     |  |           |      |  |  |      |  |  |  |  |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | %  |                |                |                |                |                |                |                |                |                |                |                | 50~135    |  |           |      |  |  |      |  |  |  |  |  |
|  | Maximum Capacity of Combined Indoor Units |                                   | 583.2                                      |                |                | 615.6          |                |                | 648.0          |                |                | 680.4          |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  | Maximum Number of Indoor Units            |                                   | 72   |                |                | 73             |                |                | 74             |                |                | 75             |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 67.2                                       |                |                | 67.8           |                |                | 67.8           |                |                | 67.8           |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  | Heating                                   | dB(A)                             | 70.5                                       |                |                | 70.0           |                |                | 71.0           |                |                | 71.8           |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)            |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |
|  | Heating                                   | ° F WB                            | -22.0 to 60.0 (-30.0 to 15.5° C)           |                |                |                |                |                |                |                |                |                |                |                |           |  |           |      |  |  |      |  |  |  |  |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB  
 Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB  
 Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series “Elite Heat” Heat Recovery MMYF-u High Heat 208-230V / Three-Phase / 60Hz



| High Heat Model                          |   |                                   |                                   | MUP072H1FT9PUL                             |          | MUP096H1FT9PUL |          | MUP120H1FT9PUL |  |  |
|--|---|-----------------------------------|-----------------------------------|--|----------|----------------|----------|----------------|--|--|
| Model Name                               |   | MMY-                              |                                   |  |          |                |          |                |  |  |
| Power Supply                             |   | Nominal Voltage                   | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz              |          |                |          |                |  |  |
|  |   | Voltage Range                     | V                                 | 187-253V                                   |          |                |          |                |  |  |
| Cooling                                  |   | Nominal Capacity (*1)             | kBTU/h                            | 72   |          | 96             |          | 120            |  |  |
|  |   | Rated Capacity (*1)               | kBTU/h                            | 69   |          | 92             |          | 115            |  |  |
| Heating                                  |   | Nominal Capacity (*1)             | kBTU/h                            | 81   |          | 108            |          | 135            |  |  |
|  |   | Rated Capacity (*1)               | kBTU/h                            | 77   |          | 103            |          | 129            |  |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW                                | 4.97                                       |          | 6.72           |          | 9.03           |  |  |
|  |   | Rated EER (*1) (*2)               | BTU/W                             | 13.90                                      |          | 13.70          |          | 12.70          |  |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW                                | 4.81                                       |          | 6.10           |          | 8.29           |  |  |
|  |   | Rated COP (*1) (*2)               | BTU/W                             | 4.69                                       |          | 4.95           |          | 4.56           |  |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW                                | 4.69                                       |          | 6.49           |          | 8.27           |  |  |
|  |   | Rated EER (*1) (*2)               | BTU/W                             | 14.70                                      |          | 14.20          |          | 13.90          |  |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW                                | 4.61                                       |          | 6.31           |          | 8.36           |  |  |
|  |   | Rated COP (*1) (*2)               | BTU/W                             | 4.90                                       |          | 4.78           |          | 4.52           |  |  |
| Starting Current                         |   |                                   | A                                 | Soft Start                                 |          |                |          |                |  |  |
| Dimensions                               | Unit                                      | Height                            | in                                | 66.5                                       |          |                |          |                |  |  |
|  |   | Width                             | in                                | 39.6                                       | 51.4     |                |          |                |  |  |
|  |   | Depth                             | in                                | 31.2                                       |          |                |          |                |  |  |
| Weight                                   | Unit                                      |                                   | lbs                               | 532  | 783      |                |          |                |  |  |
|  | Compressor                                |                                   |                                   | Hermetic Twin- or Triple-Rotary Compressor |          | Twin           |          | Triple         |  |  |
|  |   | Motor Output                      | kW                                | 4.54 x 1                                   | 5.96 x 1 |                | 8.27 x 1 |                |  |  |
|  |   | Type                              |                                   | Propeller Fan                              |          |                |          |                |  |  |
| Fan Unit                                 | Motor Output                              |                                   | kW                                | 0.43 x 1                                   | 0.38 x 2 |                |          |                |  |  |
|  | Air Volume                                |                                   | cfm                               | 5,721                                      | 7,240    |                | 7,416    |                |  |  |
| Maximum External Static Pressure (*3)    |   |                                   | in H2O                            | 0.321                                      |          |                |          |                |  |  |
| Heat Exchanger                           |   |                                   |                                   | Finned Tube                                |          |                |          |                |  |  |
| Refrigerant                              | Name                                      |                                   |                                   | R410A                                      |          |                |          |                |  |  |
|  | Charged Refrigerant Amount (*4)           |                                   | lbs                               | 13.2                                       | 19.8     |                |          |                |  |  |
| High-Pressure Switch (Protective Device) |   |                                   | psi                               | ON: 464 OFF: 601                           |          |                |          |                |  |  |
| Protective Devices                       |   |                                   |                                   | (*5)                                       |          |                |          |                |  |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 36.6                              | 52.3                                       |          | 53.1           |          |                |  |  |
|  | MOC (*6)                                  | A                                 | 45                                | 60   |          | 70             |          |                |  |  |
| Piping Connections                       | Liquid Pipe                               | Type                              |                                   | Brazing                                    |          |                |          |                |  |  |
|  |   | Diameter                          | in                                | 1/2  |          |                |          |                |  |  |
|  | HP/LP Gas Pipe                            | Type                              |                                   | Brazing                                    |          |                |          |                |  |  |
|  |   | Diameter                          | in                                | 3/4  |          |                |          |                |  |  |
| Suction Gas Pipe                         | Type                                      |                                   | Brazing                           |  |          |                |          |                |  |  |
|  | Diameter                                  | in                                | 3/4                               | 7/8  |          | 1-1/8          |          |                |  |  |
| Furthest Piping Length                   | Equivalent Length                         |                                   | ft                                | 606.9                                      |          |                |          |                |  |  |
|  | Real Length                               |                                   | ft                                | 541.3                                      |          |                |          |                |  |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | %                                 | 80-200                                     |          |                |          |                |  |  |
|  | Maximum Capacity of Combined Indoor Units |                                   |                                   | 144.0                                      | 192.0    |                | 240.0    |                |  |  |
|  | Maximum Number of Indoor Units            |                                   |                                   | 12   | 17       |                | 21       |                |  |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 56.0                              | 61.0                                       |          | 60.0           |          |                |  |  |
|  | Heating                                   | dB(A)                             | 59.0                              | 62.0                                       |          | 63.0           |          |                |  |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | -10.0 to 125.0 (-23.3 to 52.0° C) |  |          |                |          |                |  |  |
|  | Heating                                   | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C)  |  |          |                |          |                |  |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOC: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series "Elite Heat" Heat Recovery MMYF-u High Heat 208-230V / Three-Phase / 60Hz



| High Heat Model                          |   |                                   |  |                |                |                |                |                |       |
|--|---|-----------------------------------|--|----------------|----------------|----------------|----------------|----------------|-------|
| Model Name                               |   | MMY-                              | UP144H1FT9PUL                              |                | UP168H1FT9PUL  |                | UP240H1FT9PUL  |                |       |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP072H1FT9PUL                             | MUP072H1FT9PUL | MUP096H1FT9PUL | MUP096H1FT9PUL | MUP120H1FT9PUL | MUP120H1FT9PUL |       |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz              |                |                |                |                |                |       |
|  | Voltage Range                             | V                                 | 187-253V                                   |                |                |                |                |                |       |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 144  |                | 192            |                | 240            |                |       |
|  | Rated Capacity (*1)                       | kBTU/h                            | 138  |                | 184            |                | 230            |                |       |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 162  |                | 216            |                | 270            |                |       |
|  | Rated Capacity (*1)                       | kBTU/h                            | 154  |                | 206            |                | 258            |                |       |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW   |                | 10.01          |                | 13.52          |                |       |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      |                | 13.80          |                | 13.60          |                |       |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   |                | 8.98           |                | 12.91          |                |       |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      |                | 5.03           |                | 4.68           |                |       |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW   |                | 9.12           |                | 12.83          |                |       |
|  |   | Rated EER (*1) (*2)               | BTU/W                                      |                | 15.10          |                | 14.30          |                |       |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW   |                | 9.38           |                | 13.51          |                |       |
|  |   | Rated COP (*1) (*2)               | BTU/W                                      |                | 4.81           |                | 4.47           |                |       |
| Starting Current                         |   | A                                 | Soft Start                                 |                |                |                |                |                |       |
| Dimensions                               | Unit                                      | Height                            | in   |                | 66.5           |                |                |                |       |
|  |   | Width                             | in   |                | 39.6           |                | 51.4           |                |       |
|  |   | Depth                             | in   |                | 31.2           |                |                |                |       |
| Weight                                   | Unit                                      | lbs                               | 532  |                | 783            |                |                |                |       |
|  |   | Compressor                        | Hermetic Twin- or Triple-Rotary Compressor |                | Twin           |                | Triple         |                |       |
| Fan Unit                                 | Motor Output                              | kW                                | 4.54 x 1                                   |                | 5.96 x 1       |                | 8.27 x 1       |                |       |
|  | Type                                      | Propeller Fan                     |  |                |                |                |                |                |       |
| Air Volume                               | Motor Output                              | kW                                | 0.43 x 1                                   |                | 0.38 x 2       |                |                |                |       |
|  | Air Volume                                | cfm                               | 5,721                                      |                | 7,240          |                | 7,416          |                |       |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.321                                      |                |                |                |                |                |       |
| Heat Exchanger                           |   | Finned Tube                       |  |                |                |                |                |                |       |
| Refrigerant                              | Name                                      | R410A                             |  |                |                |                |                |                |       |
|  | Charged Refrigerant Amount (*4)           | lbs                               | 13.2                                       |                | 19.8           |                |                |                |       |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                           |                |                |                |                |                |       |
| Protective Devices                       |   | (*5)                              |  |                |                |                |                |                |       |
| Power Supply Wiring                      | MCA                                       | A                                 | 36.6                                       |                | 52.3           |                | 53.1           |                |       |
|  | MOCP (*6)                                 | A                                 | 45   |                | 60             |                | 70             |                |       |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazing                                    |                |                |                |                |                |       |
|  |   | Diameter                          | in   |                | 1/2            |                |                |                |       |
|  | HP/LP Gas Pipe                            | Type                              | Brazing                                    |                |                |                |                |                |       |
|  |   | Diameter                          | in   |                | 3/4            |                |                |                |       |
|  | Suction Gas Pipe                          | Type                              | Brazing                                    |                |                |                |                |                |       |
|  |   | Diameter                          | in   |                | 3/4            |                | 7/8            |                | 1-1/8 |
| Furthest Piping Length                   | Equivalent Length                         | ft                                |  | 639.8          |                |                |                |                |       |
|  | Real Length                               | ft                                |  | 574.1          |                |                |                |                |       |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | %  |                |                |                |                |                |       |
|  | Maximum Capacity of Combined Indoor Units |                                   |  | 194.4          |                | 259.2          |                | 324.0          |       |
|  | Maximum Number of Indoor Units            |                                   |  | 25             |                | 34             |                | 43             |       |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 59.0                                       |                | 64.0           |                | 63.0           |                |       |
|  | Heating                                   | dB(A)                             | 62.0                                       |                | 65.0           |                | 66.0           |                |       |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)            |                |                |                |                |                |       |
|  | Heating                                   | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C)           |                |                |                |                |                |       |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series "Elite Heat" Heat Recovery MMYF-u High Heat 208-230V / Three-Phase / 60Hz



| High Heat Model                          |  |                                   |                                  | UP288H1FT9PUL  |                |                | UP360H1FT9PUL  |                |  |
|--|--|-----------------------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               |  | MMY-                              |                                  |                |                |                |                |                |  |
| Outdoor Unit Model Name                  |  | MMY-                              | MUP096H1FT9PUL                   | MUP096H1FT9PUL | MUP096H1FT9PUL | MUP120H1FT9PUL | MUP120H1FT9PUL | MUP120H1FT9PUL |  |
| Power Supply                             | Nominal Voltage                            | V/Ph/Hz                           | 208-230V / Three-Phase / 60Hz    |                |                |                |                |                |  |
|  | Voltage Range                              | V                                 | 187-253V                         |                |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                      | kBTU/h                            | 288                              |                |                | 360            |                |                |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 276                              |                |                | 342            |                |                |  |
| Heating                                  | Nominal Capacity (*1)                      | kBTU/h                            | 324                              |                |                | 405            |                |                |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 308                              |                |                | 386            |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW                               |                |                | 27.92          |                |                |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                            |                |                | 12.20          |                |                |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                               |                |                | 29.84          |                |                |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                            |                |                | 3.79           |                |                |  |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW                               |                |                | 26.97          |                |                |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                            |                |                | 12.70          |                |                |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                               |                |                | 28.83          |                |                |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                            |                |                | 3.92           |                |                |  |
| Starting Current                         |  | A                                 | Soft Start                       |                |                |                |                |                |  |
| Dimensions                               | Unit                                       | Height                            | in                               |                |                |                |                |                |  |
|  |  | Width                             | 66.5                             |                |                |                |                |                |  |
|  |  | Depth                             | in                               |                |                |                |                |                |  |
| Weight                                   | Unit                                       | Weight                            | lbs                              |                |                |                |                |                |  |
|  |  | Weight                            | 783                              |                |                |                |                |                |  |
|  |  | Weight                            | in                               |                |                |                |                |                |  |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Triple                           |                |                |                |                |                |  |
|  | Motor Output                               | kW                                | 5.96 x 1                         |                |                | 8.27 x 1       |                |                |  |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan                    |                |                |                |                |                |  |
|  | Motor Output                               | kW                                | 0.38 x 2                         |                |                |                |                |                |  |
|  | Air Volume                                 | cfm                               | 7,240                            |                |                | 7,416          |                |                |  |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.321                            |                |                |                |                |                |  |
| Heat Exchanger                           |  |                                   | Finned Tube                      |                |                |                |                |                |  |
| Refrigerant                              | Name                                       |                                   | R410A                            |                |                |                |                |                |  |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs                              | 19.8           |                |                |                |                |  |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                 |                |                |                |                |                |  |
| Protective Devices                       |  |                                   | (*5)                             |                |                |                |                |                |  |
| Power Supply Wiring                      | MCA  | A                                 | 52.3                             |                |                | 53.1           |                |                |  |
|  | MOCP (*6)                                  | A                                 | 60                               |                |                | 70             |                |                |  |
| Piping Connections                       | Liquid Pipe                                | Type                              | Brazing                          |                |                |                |                |                |  |
|  |  | Diameter                          | in                               |                |                |                |                |                |  |
|  | HP/LP Gas Pipe                             | Type                              | Brazing                          |                |                |                |                |                |  |
|  |  | Diameter                          | in                               |                |                |                |                |                |  |
|  | Suction Gas Pipe                           | Type                              | Brazing                          |                |                |                |                |                |  |
|  |  | Diameter                          | 7/8                              |                |                | 1-1/8          |                |                |  |
| Furthest Piping Length                   | Equivalent Length                          | ft                                | 656.2                            |                |                |                |                |                |  |
|  | Real Length                                | ft                                | 590.5                            |                |                |                |                |                |  |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 50~135                           |                |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 388.8                            |                |                | 486.0          |                |                |  |
|  | Maximum Number of Indoor Units             |                                   | 51                               |                |                | 64             |                |                |  |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 65.8                             |                |                | 64.8           |                |                |  |
|  | Heating                                    | dB(A)                             | 66.8                             |                |                | 67.8           |                |                |  |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)  |                |                |                |                |                |  |
|  | Heating                                    | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C) |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series “Elite Heat” Heat Recovery MMYF-u High Heat 460V / Three-Phase / 60Hz



| High Heat Model                          |  |                                   |                           | MUP072H1FT6PUL                    |          | MUP096H1FT6PUL |          | MUP120H1FT6PUL |          |  |
|--|--|-----------------------------------|---------------------------|-----------------------------------|----------|----------------|----------|----------------|----------|--|
| Model Name                               |  | MMY-                              |                           |                                   |          |                |          |                |          |  |
| Power Supply                             | Nominal Voltage                            | V/Ph/Hz                           | 460V / Three-Phase / 60Hz |                                   |          |                |          |                |          |  |
|  | Voltage Range                              | V                                 | 414-506V                  |                                   |          |                |          |                |          |  |
| Cooling                                  | Nominal Capacity (*1)                      | kBTU/h                            | 72                        |                                   | 96       |                | 120      |                |          |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 69                        |                                   | 92       |                | 115      |                |          |  |
| Heating                                  | Nominal Capacity (*1)                      | kBTU/h                            | 81                        |                                   | 108      |                | 135      |                |          |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 77                        |                                   | 103      |                | 129      |                |          |  |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW                        |                                   | 4.97     |                | 6.72     |                | 9.03     |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                     |                                   | 13.90    |                | 13.70    |                | 12.70    |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                        |                                   | 4.81     |                | 6.10     |                | 8.29     |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                     |                                   | 4.69     |                | 4.95     |                | 4.56     |  |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW                        |                                   | 4.69     |                | 6.49     |                | 8.27     |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                     |                                   | 14.70    |                | 14.20    |                | 13.90    |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                        |                                   | 4.61     |                | 6.31     |                | 8.36     |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                     |                                   | 4.90     |                | 4.78     |                | 4.52     |  |
| Starting Current                         |  | A                                 | Soft Start                |                                   |          |                |          |                |          |  |
| Dimensions                               | Unit                                       | Height                            | in                        |                                   | 66.5     |                |          |                |          |  |
|  |  | Width                             | in                        |                                   | 39.6     |                | 51.4     |                |          |  |
|  |  | Depth                             | in                        |                                   | 31.2     |                |          |                |          |  |
| Weight                                   | Unit                                       | lbs                               | 552                       |                                   | 776      |                |          |                |          |  |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Twin                      |                                   | Triple   |                |          |                |          |  |
|  | Motor Output                               |                                   | kW                        |                                   | 4.54 x 1 |                | 5.96 x 1 |                | 8.27 x 1 |  |
| Fan Unit                                 | Type                                       |                                   | Propeller Fan             |                                   |          |                |          |                |          |  |
|  | Motor Output                               |                                   | kW                        |                                   | 0.43 x 1 |                | 0.38 x 2 |                |          |  |
|  | Air Volume                                 |                                   | cfm                       |                                   | 5,721    |                | 7,240    |                | 7,416    |  |
| Maximum External Static Pressure (*3)    |  | in H2O                            |                           | 0.321                             |          |                |          |                |          |  |
| Heat Exchanger                           |  | Finned Tube                       |                           |                                   |          |                |          |                |          |  |
| Refrigerant                              | Name                                       |                                   | R410A                     |                                   |          |                |          |                |          |  |
|  | Charged Refrigerant Amount (*4)            |                                   | lbs                       |                                   | 13.2     |                | 19.8     |                |          |  |
| High-Pressure Switch (Protective Device) |  | psi                               |                           | ON: 464 OFF: 601                  |          |                |          |                |          |  |
| Protective Devices                       |  | (*5)                              |                           |                                   |          |                |          |                |          |  |
| Power Supply Wiring                      | MCA  | A                                 |                           | 18.5                              |          | 25.0           |          | 25.4           |          |  |
|  | MOCP (*6)                                  | A                                 |                           | 25                                |          | 30             |          |                |          |  |
| Piping Connections                       | Liquid Pipe                                | Type                              | Brazing                   |                                   |          |                |          |                |          |  |
|  |  | Diameter                          | in                        |                                   | 1/2      |                |          |                |          |  |
|  | HP/LP Gas Pipe                             | Type                              | Brazing                   |                                   |          |                |          |                |          |  |
|  |  | Diameter                          | in                        |                                   | 3/4      |                |          |                |          |  |
| Suction Gas Pipe                         | Type                                       | Brazing                           |                           |                                   |          |                |          |                |          |  |
|  | Diameter                                   | in                                |                           | 3/4                               |          | 7/8            |          | 1-1/8          |          |  |
| Furthest Piping Length                   | Equivalent Length                          |                                   | ft                        |                                   | 606.9    |                |          |                |          |  |
|  | Real Length                                |                                   | ft                        |                                   | 541.3    |                |          |                |          |  |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | %                         |                                   | 80~200   |                |          |                |          |  |
|  | Maximum Capacity of Combined Indoor Units  |                                   |                           |                                   | 144.0    |                | 192.0    |                | 240.0    |  |
|  | Maximum Number of Indoor Units             |                                   |                           |                                   | 12       |                | 17       |                | 21       |  |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             |                           | 56.0                              |          | 61.0           |          | 60.0           |          |  |
|  | Heating                                    | dB(A)                             |                           | 59.0                              |          | 62.0           |          | 63.0           |          |  |
| Operation Temperature Range              | Cooling                                    | ° F DB                            |                           | -10.0 to 125.0 (-23.3 to 52.0° C) |          |                |          |                |          |  |
|  | Heating                                    | ° F WB                            |                           | -30.0 to 60.0 (-34.4 to 15.5° C)  |          |                |          |                |          |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series "Elite Heat" Heat Recovery MMYF-u High Heat 460V / Three-Phase / 60Hz



| High Heat Model                          |   |                                   |                                  |  |                |                |                |                |  |
|--|---|-----------------------------------|----------------------------------|--|----------------|----------------|----------------|----------------|--|
| Model Name                               |   | MMY-                              | UP144H1FT6PUL                    | UP168H1FT6PUL                              | UP240H1FT6PUL  |                |                |                |  |
| Outdoor Unit Model Name                  |   | MMY-                              | MUP072H1FT6PUL                   | MUP072H1FT6PUL                             | MUP096H1FT6PUL | MUP096H1FT6PUL | MUP120H1FT6PUL | MUP120H1FT6PUL |  |
| Power Supply                             | Nominal Voltage                           | V/Ph/Hz                           | 460V / Three-Phase / 60Hz        |  |                |                |                |                |  |
|  | Voltage Range                             | V                                 | 414-506V                         |  |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                     | kBTU/h                            | 144                              |  | 192            |                |                | 240            |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 138                              |  | 184            |                |                | 230            |  |
| Heating                                  | Nominal Capacity (*1)                     | kBTU/h                            | 162                              |  | 216            |                |                | 270            |  |
|  | Rated Capacity (*1)                       | kBTU/h                            | 154                              |  | 206            |                |                | 258            |  |
| With Non-Ducted Indoor Units             | Cooling                                   | Rated power consumption (*1) (*2) | kW                               | 10.01                                      |                | 13.52          |                | 17.70          |  |
|  |   | Rated EER (*1) (*2)               | BTU/W                            | 13.80                                      |                | 13.60          |                | 13.00          |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW                               | 8.98                                       |                | 12.91          |                | 16.63          |  |
|  |   | Rated COP (*1) (*2)               | BTU/W                            | 5.03                                       |                | 4.68           |                | 4.55           |  |
| With Ducted Indoor Units                 | Cooling                                   | Rated power consumption (*1) (*2) | kW                               | 9.12                                       |                | 12.83          |                | 16.79          |  |
|  |   | Rated EER (*1) (*2)               | BTU/W                            | 15.10                                      |                | 14.30          |                | 13.70          |  |
|  | Heating                                   | Rated power consumption (*1) (*2) | kW                               | 9.38                                       |                | 13.51          |                | 18.79          |  |
|  |   | Rated COP (*1) (*2)               | BTU/W                            | 4.81                                       |                | 4.47           |                | 4.02           |  |
| Starting Current                         |   | A                                 | Soft Start                       |  |                |                |                |                |  |
| Dimensions                               | Unit                                      | Height                            | in                               | 66.5                                       |                |                |                |                |  |
|  |   | Width                             | in                               | 39.6                                       |                | 51.4           |                |                |  |
|  |   | Depth                             | in                               | 31.2                                       |                |                |                |                |  |
| Weight                                   | Unit                                      | lbs                               | 552                              |  | 776            |                |                |                |  |
|  |   | Compressor                        |                                  | Hermetic Twin- or Triple-Rotary Compressor | Twin           |                | Triple         |                |  |
| Fan Unit                                 | Motor Output                              | kW                                | 4.54 x 1                         |  | 5.96 x 1       |                | 8.27 x 1       |                |  |
|  |   | Type                              | Propeller Fan                    |  |                |                |                |                |  |
| Fan Unit                                 | Air Volume                                | kW                                | 0.43 x 1                         |  | 0.38 x 2       |                |                |                |  |
|  |   | cfm                               | 5,721                            |  | 7,240          |                | 7,416          |                |  |
| Maximum External Static Pressure (*3)    |   | in H2O                            | 0.321                            |  |                |                |                |                |  |
| Heat Exchanger                           |   |                                   | Finned Tube                      |  |                |                |                |                |  |
| Refrigerant                              | Name                                      |                                   | R410A                            |  |                |                |                |                |  |
|  | Charged Refrigerant Amount (*4)           | lbs                               | 13.2                             |  | 19.8           |                |                |                |  |
| High-Pressure Switch (Protective Device) |   | psi                               | ON: 464 OFF: 601                 |  |                |                |                |                |  |
| Protective Devices                       |   |                                   | (*5)                             |  |                |                |                |                |  |
| Power Supply Wiring                      | MCA                                       | A                                 | 18.5                             |  | 25.0           |                | 25.4           |                |  |
|  | MOCP (*6)                                 | A                                 | 25                               |  | 30             |                |                |                |  |
| Piping Connections                       | Liquid Pipe                               | Type                              | Brazing                          |  |                |                |                |                |  |
|  |   | Diameter                          | in                               | 1/2  |                |                |                |                |  |
|  | HP/LP Gas Pipe                            | Type                              | Brazing                          |  |                |                |                |                |  |
|  |   | Diameter                          | in                               | 3/4  |                |                |                |                |  |
|  | Suction Gas Pipe                          | Type                              | Brazing                          |  |                |                |                |                |  |
|  |   | Diameter                          | in                               | 3/4  |                | 7/8            |                | 1-1/8          |  |
| Furthest Piping Length                   | Equivalent Length                         | ft                                | 639.8                            |  |                |                |                |                |  |
|  | Real Length                               | ft                                | 574.1                            |  |                |                |                |                |  |
| Indoor Units                             | Total Capacity                            | % of Outdoor Unit Capacity (*7)   | 50~135                           |  |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units |                                   | 194.4                            |  | 259.2          |                | 324.0          |                |  |
|  | Maximum Number of Indoor Units            |                                   | 25                               |  | 34             |                | 43             |                |  |
| Sound Pressure Level                     | Cooling                                   | dB(A)                             | 59.0                             |  | 64.0           |                | 63.0           |                |  |
|  | Heating                                   | dB(A)                             | 62.0                             |  | 65.0           |                | 66.0           |                |  |
| Operation Temperature Range              | Cooling                                   | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)  |  |                |                |                |                |  |
|  | Heating                                   | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C) |  |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# u-Series "Elite Heat" Heat Recovery MMYF-u High Heat 460V / Three-Phase / 60Hz



| High Heat Model                          |  |                                   |                                  |                |                |                |                |                |  |
|--|--|-----------------------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|--|
| Model Name                               |  | MMY-                              | UP288H1FT6PUL                    | UP360H1FT6PUL  |                |                |                |                |  |
| Outdoor Unit Model Name                  |  | MMY-                              | MUP096H1FT6PUL                   | MUP096H1FT6PUL | MUP096H1FT6PUL | MUP120H1FT6PUL | MUP120H1FT6PUL | MUP120H1FT6PUL |  |
| Power Supply                             | Nominal Voltage                            | V/Ph/Hz                           | 460V / Three-Phase / 60Hz        |                |                |                |                |                |  |
|  | Voltage Range                              | V                                 | 414-506V                         |                |                |                |                |                |  |
| Cooling                                  | Nominal Capacity (*1)                      | kBTU/h                            | 288                              |                |                | 360            |                |                |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 276                              |                |                | 342            |                |                |  |
| Heating                                  | Nominal Capacity (*1)                      | kBTU/h                            | 324                              |                |                | 405            |                |                |  |
|  | Rated Capacity (*1)                        | kBTU/h                            | 308                              |                |                | 386            |                |                |  |
| With Non-Ducted Indoor Units             | Cooling                                    | Rated power consumption (*1) (*2) | kW                               | 21.22          |                |                | 27.92          |                |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                            | 13.00          |                |                | 12.20          |                |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                               | 22.47          |                |                | 29.84          |                |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                            | 4.02           |                |                | 3.79           |                |  |
| With Ducted Indoor Units                 | Cooling                                    | Rated power consumption (*1) (*2) | kW                               | 21.26          |                |                | 26.97          |                |  |
|  |  | Rated EER (*1) (*2)               | BTU/W                            | 13.00          |                |                | 12.70          |                |  |
|  | Heating                                    | Rated power consumption (*1) (*2) | kW                               | 22.61          |                |                | 28.83          |                |  |
|  |  | Rated COP (*1) (*2)               | BTU/W                            | 3.99           |                |                | 3.92           |                |  |
| Starting Current                         |  | A                                 | Soft Start                       |                |                |                |                |                |  |
| Dimensions                               | Unit                                       | Height                            | in                               | 66.5           |                |                |                |                |  |
|  |  | Width                             | in                               | 51.4           |                |                |                |                |  |
|  |  | Depth                             | in                               | 31.2           |                |                |                |                |  |
| Weight                                   | Unit                                       | lbs                               | 776                              |                |                |                |                |                |  |
| Compressor                               | Hermetic Twin- or Triple-Rotary Compressor |                                   | Triple                           |                |                |                |                |                |  |
|  | Motor Output                               | kW                                | 5.96 x 1                         |                |                | 8.27 x 1       |                |                |  |
| Fan Unit                                 | Type                                       | Propeller Fan                     |                                  |                |                |                |                |                |  |
|  | Motor Output                               | kW                                | 0.38 x 2                         |                |                |                |                |                |  |
|  | Air Volume                                 | cfm                               | 7,240                            |                |                | 7,416          |                |                |  |
| Maximum External Static Pressure (*3)    |  | in H2O                            | 0.321                            |                |                |                |                |                |  |
| Heat Exchanger                           |  | Finned Tube                       |                                  |                |                |                |                |                |  |
| Refrigerant                              | Name                                       | R410A                             |                                  |                |                |                |                |                |  |
|  | Charged Refrigerant Amount (*4)            | lbs                               | 19.8                             |                |                |                |                |                |  |
| High-Pressure Switch (Protective Device) |  | psi                               | ON: 464 OFF: 601                 |                |                |                |                |                |  |
| Protective Devices                       |  | (*5)                              |                                  |                |                |                |                |                |  |
| Power Supply Wiring                      | MCA  | A                                 | 25.0                             |                |                | 25.4           |                |                |  |
|  | MOCP (*6)                                  | A                                 | 30                               |                |                |                |                |                |  |
| Piping Connections                       | Liquid Pipe                                | Type                              | Brazing                          |                |                |                |                |                |  |
|  |  | Diameter                          | in                               | 1/2            |                |                |                |                |  |
|  | HP/LP Gas Pipe                             | Type                              | Brazing                          |                |                |                |                |                |  |
|  |  | Diameter                          | in                               | 3/4            |                |                |                |                |  |
|  | Suction Gas Pipe                           | Type                              | Brazing                          |                |                |                |                |                |  |
|  |  | Diameter                          | in                               | 7/8            |                |                | 1-1/8          |                |  |
| Furthest Piping Length                   |  | Equivalent Length                 | ft                               | 656.2          |                |                |                |                |  |
|  |  | Real Length                       | ft                               | 590.5          |                |                |                |                |  |
| Indoor Units                             | Total Capacity                             | % of Outdoor Unit Capacity (*7)   | 50~135                           |                |                |                |                |                |  |
|  | Maximum Capacity of Combined Indoor Units  |                                   | 388.8                            |                |                | 486.0          |                |                |  |
|  | Maximum Number of Indoor Units             |                                   | 51                               |                |                | 64             |                |                |  |
| Sound Pressure Level                     | Cooling                                    | dB(A)                             | 65.8                             |                |                | 64.8           |                |                |  |
|  | Heating                                    | dB(A)                             | 66.8                             |                |                | 67.8           |                |                |  |
| Operation Temperature Range              | Cooling                                    | ° F DB                            | 23.0 to 125.0 (-5.0 to 52.0° C)  |                |                |                |                |                |  |
|  | Heating                                    | ° F WB                            | -30.0 to 60.0 (-34.4 to 15.5° C) |                |                |                |                |                |  |

(\*1) Rating conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

Test conditions are based on AHRI 1230\_2021

(\*2) Value for only outdoor unit

(\*3) Setting is necessary

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / P.C. board fuse

(\*6) MOCP: Maximum Overcurrent Protection (Amps)

(\*7) If outdoor temperature is lower than -13° F, please set the total capacity of outdoor unit to 100%

# SINGLE- PHASE OUTDOOR UNITS



# Need Something Smaller? Try Single-Phase VRF.

Perfect for smaller commercial or larger residential applications, single-phase VRF delivers the same benefits of other VRF systems in a compact package. Choose from heat pump or heat recovery options and connect up to nine indoor units to one outdoor unit.



## Better Air Quality

Air filters in every indoor unit remove airborne pollutants in the room for a cleaner, healthier environment.

- Multiple indoor units create more filter points
- Continuous cycling increases filtering frequency and ventilation



## Total Flexibility

A zoned, modular design and small footprint allow for versatile options and customized comfort.

- Choose from multiple outdoor unit sizes
- Mix and match indoor unit styles to meet your design needs
- Easily integrate into any space without compromising architectural integrity
- Control zone temperatures from any room or moderate settings from a central controller



## Customizable Heating and/or Cooling

With automatic, concurrent heating and cooling for each designated space, heat recovery systems cater to everyone's needs. Or, get whole-home heating or cooling with a heat pump system.

- Designate up to 25 customizable temperature zones
- Designed to make installation simpler
- Reuses energy from one zone in other parts of the building

## VRF Single-Phase Outdoor Units Overview



| Tonnage | Heat Pump    | Heat Recovery* |          |
|---------|--------------|----------------|----------|
|         | Single-phase | Single-phase   |          |
|         | 1 Module     | 1 Module       | 2 Module |
| 3       | 3            |                |          |
| 4       | 4            |                |          |
| 5       | 5            |                |          |
| 6       |              | 6              |          |
| 8       |              |                |          |
| 10      |              |                |          |
| 12      |              |                | 6 + 6    |

\*For use with single port flow selector (FS) box and multiport FX box on page 57.

# Single-Phase Heat Pump MCY7 208-230V / Single-Phase / 60Hz



| Standard Model (Single Unit)  |   |                                    |                                 |              |              |       |
|---|---|------------------------------------|---------------------------------|--------------|--------------|-------|
| Outdoor Unit Model Name   |   | MCY-                               | MAP0367HS-UL                    | MAP0487HS-UL | MAP0607HS-UL |       |
| Nominal Tons  |   |                                    | 3                               | 4            | 5            |       |
| Cooling Capacity (*1)<br>(With Non-Ducted<br>Indoor Units / Ducted)                       | Nominal   | kBTU/h                             | 36.0                            | 48.0         | 60.0         |       |
|   | Heating Capacity (*1)<br>(With Non-Ducted<br>Indoor Units / Ducted) | Nominal                            | kBTU/h                          | 40.0         | 54.0         | 66.0  |
| <b>With<br/>Non-Ducted<br/>Indoor Units</b><br>Electrical<br>Characteristics<br>(Nominal) | Power Supply (*2)   |                                    | 208V/230V / Single-Phase / 60Hz |              |              |       |
|   | Cooling   | Power Consumption (*3)             | kW                              | 2.52         | 3.64         | 4.88  |
|   |   | EER2 (*4)                          | BTU/W*hr                        | 14.30        | 13.20        | 12.30 |
|   | Heating   | Power Consumption (*3)             | kW                              | 2.60         | 3.86         | 4.83  |
|   |   | COP2 (*5)                          | BTU/W*hr                        | 4.50         | 4.10         | 4.00  |
|   | SEER2 (*6)  |                                    |                                 | 22.80        | 22.60        | 23.10 |
|   | HSPF2 (*7)  |                                    |                                 | 10.00        | 10.30        | 10.60 |
| <b>With Ducted<br/>Indoor Units</b><br>Electrical<br>Characteristics<br>(Nominal)         | Power Supply (*2)   |                                    | 208V/230V / Single-Phase / 60Hz |              |              |       |
|   | Cooling   | Power Consumption (*3)             | kW                              | 2.98         | 4.10         | 5.83  |
|   |   | EER2 (*4)                          | BTU/W*hr                        | 12.10        | 11.70        | 10.30 |
|   | Heating   | Power Consumption (*3)             | kW                              | 2.93         | 4.16         | 5.37  |
|   |   | COP2 (*5)                          | BTU/W*hr                        | 4.00         | 3.80         | 3.60  |
|   | SEER2 (*6)  |                                    |                                 | 20.10        | 17.90        | 18.40 |
|   | HSPF2 (*7)  |                                    |                                 | 10.90        | 10.00        | 9.80  |
| External Dimensions   | Height  | in                                 | 61.0                            |              |              |       |
|   | Width   | in                                 | 39.8                            |              |              |       |
|   | Depth   | in                                 | 14.6                            |              |              |       |
| Total Weight  | Unit  | lbs                                | 311                             |              |              |       |
| Compressor  | Type  | Hermetic Twin-Rotary Compressor    |                                 |              |              |       |
|   | Motor Output  | kW                                 | 3.75                            |              |              |       |
| Fan Unit  | Motor Output  | kW                                 | 100.0 + 100.0                   |              |              |       |
|   | Air Volume  | cfm                                | 4,520                           | 4,690        | 4,850        |       |
| Refrigerant (*8) (Charged Refrigerant Amount)   |   | lbs                                | 14.8                            |              |              |       |
| Refrigerant Type  |   |                                    | R410A                           |              |              |       |
| Electrical<br>Specifications  | Unit  | MCA (*9)                           | A                               |              |              |       |
|   |   | Recommended Fuse Size              | A                               |              |              |       |
| Refrigerant<br>Piping   | Connecting<br>Port<br>Diameter                                      | Gas Side<br>(Main Pipe) (Flare)    | in                              | 5/8          | 3/4          |       |
|   |   | Liquid Side<br>(Main Pipe) (Flare) | in                              | 3/8          |              |       |
| Operation<br>Temperature Range  | Cooling   | ° F DB                             | 23-122                          |              |              |       |
|   | Heating   | ° F WB                             | -13-60                          |              |              |       |
| Maximum Number of Connected Indoor Units  |   |                                    | 6.0                             | 8.0          | 9.0          |       |
| Maximum Capacity of Combined Indoor Units (*10)   |   |                                    | 80-135%                         |              | 50-135%      |       |
| Sound Pressure Level Cooling/Heating  |   | dB(A)                              | 52/55                           | 54/57        | 55/58        |       |

(\*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

(\*2) The source voltage must not fluctuate more than ±10%

(\*3) Only for outdoor unit

(\*4) EER2: Energy Efficiency Ratio

(\*5) COP2: Coefficient of Performance

(\*6) SEER2: Seasonal Energy Efficiency Ratio

(\*7) HSPF2: Heating Seasonal Performance Ratio

(\*8) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*9) Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design)

(\*10) In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor units is reduced



# Single-Phase Heat Recovery (MMYF-1P) 208/230V / Single-Phase / 60Hz

| Standard Model (Combination)   |                                  |                                    |                                 |                       |             |
|--|----------------------------------|------------------------------------|---------------------------------|-----------------------|-------------|
| Outdoor Unit Model Name  |                                  | MMY-                               | MAP0726FT2P-UL                  | AP1446FT2P-UL         |             |
| Nominal Tons   |                                  |                                    | 6                               | 12                    |             |
| Combination Model  |                                  | MMY-                               | -                               | MAP0726FT2P-UL        |             |
|  |                                  |                                    | -                               | MAP0726FT2P-UL        |             |
| Cooling Capacity (*1)<br>(With Non-Ducted<br>Indoor Units / Ducted)          | Nominal                          | kBTU/h                             | 72.0                            | 144.0                 |             |
|  | Rated                            | kBTU/h                             | 72.0                            | 144.0                 |             |
| Heating Capacity (*1)<br>(With Non-Ducted<br>Indoor Units / Ducted)          | Nominal                          | kBTU/h                             | 81.0                            | 162.0                 |             |
|  | Rated                            | kBTU/h                             | 81.0                            | 162.0                 |             |
| <b>With<br/>Non-Ducted<br/>Indoor Units</b><br>Electrical<br>Characteristics | Power Supply (*2)                |                                    | 208V/230V / Single-Phase / 60Hz |                       |             |
|  | Cooling                          | Power Consumption (*3)             | kW                              | 5.40                  | 11.92       |
|  |                                  | IEER (*4)                          | BTU/W*hr                        | 24.50                 | 23.00       |
|  | Heating                          | Power Consumption (*3)             | kW                              | 6.33                  | 12.31       |
|  |                                  | SCHE (*5)                          | BTU/W*hr                        | 30.60                 | 30.70       |
| <b>With Ducted<br/>Indoor Units</b><br>Electrical<br>Characteristics         | Power Supply (*2)                |                                    | 208V/230V / Single-Phase / 60Hz |                       |             |
|  | Cooling                          | Power Consumption (*3)             | kW                              | 5.37                  | 11.40       |
|  |                                  | IEER (*4)                          | BTU/W*hr                        | 19.00                 | 20.00       |
|  | Heating                          | Power Consumption (*3)             | kW                              | 6.16                  | 11.73       |
|  |                                  | SCHE (*5)                          | BTU/W*hr                        | 26.90                 | 26.60       |
| External Dimensions  | Height                           | in                                 | 72.9                            |                       |             |
|  | Width                            | in                                 | 39.0                            | 39.0 + 39.0           |             |
|  | Depth                            | in                                 | 30.7                            |                       |             |
| Total Weight   | Unit                             | lbs                                | 600.0                           | 600.0 x 2.0           |             |
| Compressor   | Type                             | Hermetic Twin-Rotary Compressor    |                                 |                       |             |
|  | Motor Output                     | kW                                 | 2.1 x 2.0                       | 2.1 x 2.0 + 2.1 x 2.0 |             |
| Fan Unit   | Motor Output                     | kW                                 | 1.0                             | 1.0 + 1.0             |             |
|  | Air Volume                       | cfm                                | 5,900                           | 5,900 + 5,900         |             |
|  | Maximum External Static Pressure | in H2O                             | 0.24                            |                       |             |
| Refrigerant (*6) (Charged Refrigerant Amount)                                |                                  | lbs                                | 24.3                            | 24.3 x 2.0            |             |
| Refrigerant Type   | R410A                            |                                    |                                 |                       |             |
| Electrical<br>Specifications   | Unit                             | MCA (*8)                           | A                               | 47.0                  | 47.0 + 47.0 |
|  |                                  | Recommended Fuse Size              | A                               | 50.0                  | 50.0 + 50.0 |
| Refrigerant<br>Piping  | Connecting<br>Port<br>Diameter   | Gas Side<br>(Main Pipe) (Flare)    | in                              | 7/8                   | 1-1/8       |
|  |                                  | Liquid Side<br>(Main Pipe) (Flare) | in                              | 1/2                   | 5/8         |
|  |                                  | Discharge<br>(Main Pipe) (Flare)   | in                              | 3/4                   | 7/8         |
|  |                                  | Balance Pipe (Flare)               | in                              | 3/8                   |             |
| Operation<br>Temperature Range   | Cooling                          | ° F DB                             | 14-122                          |                       |             |
|  | Heating                          | ° F WB                             | -13-60                          |                       |             |
| Maximum Number of Connected Indoor Units                                     |                                  |                                    | 12.0                            | 25.0                  |             |
| Maximum Capacity of Combined Indoor Units (*8)                               |                                  |                                    | 50-150%                         |                       |             |
| Sound Pressure Level Cooling/Heating   |                                  | dB(A)                              | 57/60                           | 60/63                 |             |

(\*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

(\*2) The source voltage must not fluctuate more than ±10%

(\*3) Only for outdoor unit

(\*4) IEER: Integrated Energy Efficiency Ratio

(\*5) SCHE: Simultaneous Cooling & Heating Efficiency

(\*6) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*7) Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design)

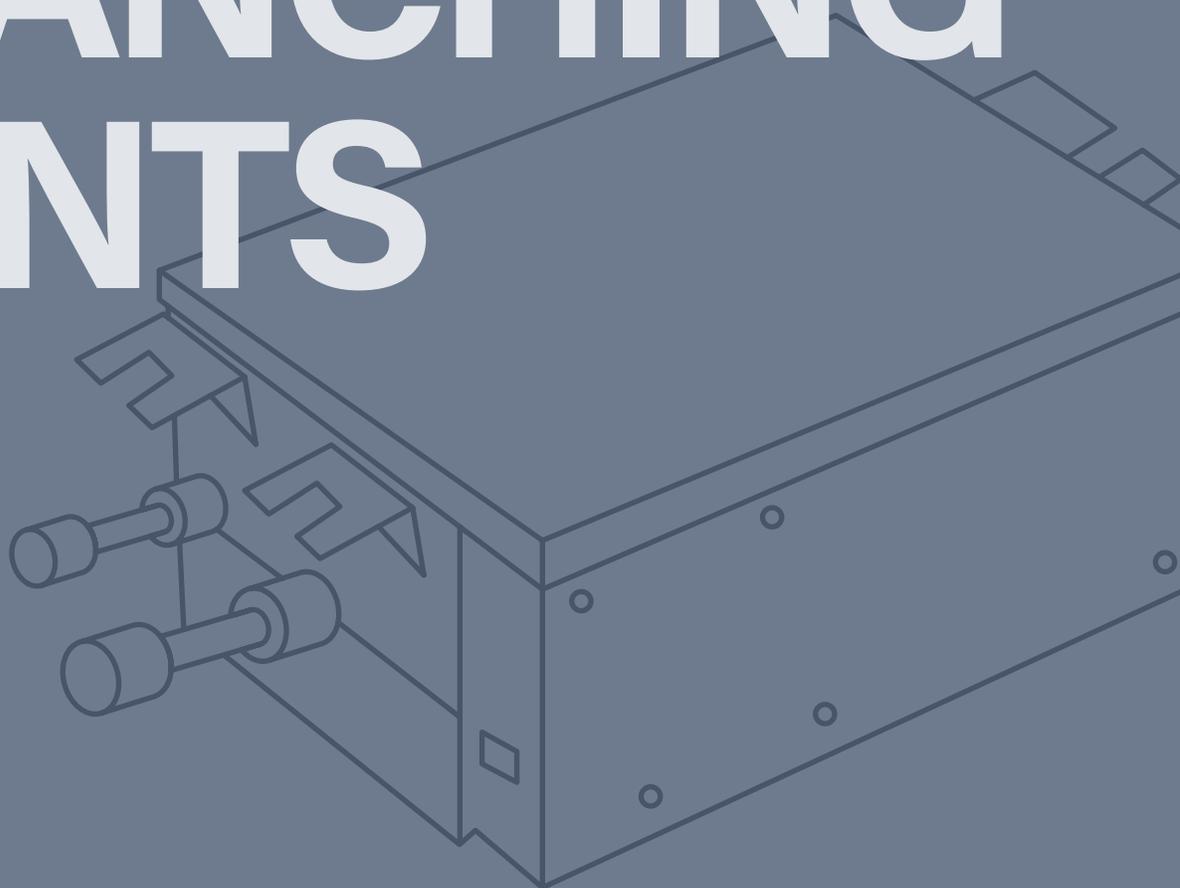
(\*8) In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor units is reduced



The standard pipe  
144 type – 228 type

Equivalent piping length  
25 ft, Height difference: 0 ft

# FLOW SELECTOR & BRANCHING JOINTS



# VRF Flow Selector & Branching Joints Overview

| Heat Recovery Flow Selectors              |   |                |   |   |   |
|---|---|----------------|---|---|---|
| Model Name                                | RBM-Y0611FUPUL  | RBM-Y0961FUPUL | RBM-Y0611FU4PUL   | RBM-Y0611FU8PUL   | RBM-Y0611FU12PUL  |
|   | Single Port FS Box  |                | Multiport FS Box  |   |   |
| Appearance                                |  |                |  |  |  |
| Connectable Indoor Unit Capacity (kBTU/h) | Below 61  | 61 to 96       | Below 61  |   |   |
| Connectable indoor units for each port    | 1   | 1              | 4   | 8   | 12  |

| Heat Recovery Branching Joints |   |                            |                             |              |  |               |                 |               |   |             |  |
|--------------------------------|---|----------------------------|-----------------------------|--------------|--|---------------|-----------------|---------------|---|-------------|--|
| Model Name                     | RBM-BY55FUL   | RBM-BY105FUL               | RBM-BY205FUL                | RBM-BY205FUL | RBM-HY1043FUL  | RBM-HY2043FUL | RBM-HY1083FUL   | RBM-HY2083FUL | RBM-BT14FUL   | RBM-BT24FUL |  |
|                                | Y-shape Branching Joint   |                            |                             |              | Branch Headers   |               |                 |               | Outdoor Unit Connection Piping Kit  |             |  |
| Appearance                     |  |                            |                             |              |  |               |                 |               |  |             |  |
| Usage Branches                 |   |                            |                             |              | Max. 4 branches  |               | Max. 8 branches |               |   |             |  |
| Total Usage* (kBTU/h)          | Below 61  | 61 or more and below 134.5 | 134.5 or more and below 239 | 239 or more  | Below 134.5  | 134.5 or more | Below 134.5     | 134.5 or more | Below 247   | 247 or more |  |

\*Classification according to indoor unit capacity code

| Heat Pump Branching Joints |   |                            |                             |             |  |               |                 |              |   |             |  |
|----------------------------|---|----------------------------|-----------------------------|-------------|--|---------------|-----------------|--------------|---|-------------|--|
| Model Name                 | RBM-BY55UL  | RBM-BY105UL                | RBM-BY205UL                 | RBM-BY305UL | RBM-HY1043UL   | RBM-HHY2043UL | RBM-HY1083UL    | RBM-HY2083UL | RBM-BT14UL  | RBM-BT24UL  |  |
|                            | Y-shape Branching Joint for Using 2 Pipes   |                            |                             |             | Branch Headers   |               |                 |              | Outdoor Unit Connection Piping Kit  |             |  |
| Appearance                 |  |                            |                             |             |  |               |                 |              |  |             |  |
| Usage Branches             |   |                            |                             |             | Max. 4 branches  |               | Max. 8 branches |              |   |             |  |
| Total Usage* (kBTU/h)      | Below 61  | 61 or more and below 134.5 | 134.5 or more and below 239 | 239 or more | Below 136  | 136 or more   | Below 136       | 136 or more  | Below 247   | 247 or more |  |

\*Classification according to indoor unit capacity code

# INDOOR UNITS



# VRF Indoor Units Overview

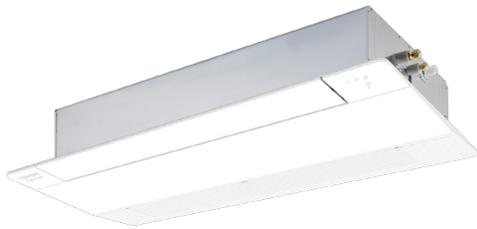


| Cooling Capacity<br>kBTU/h (Ton) | Non-Ducted Models |                            |                           |           |              |                             |                            |
|----------------------------------|-------------------|----------------------------|---------------------------|-----------|--------------|-----------------------------|----------------------------|
|                                  | 1-Way<br>Cassette | Standard 4-Way<br>Cassette | Compact 4-Way<br>Cassette | High Wall | Underceiling | Floor Console<br>(Recessed) | Floor Console<br>(Exposed) |
| 7,500 (0.6)                      | •                 | •                          | •                         | •         |              | •                           | •                          |
| 9,500 (0.8)                      | •                 | •                          | •                         | •         |              | •                           | •                          |
| 12,000 (1)                       | •                 | •                          | •                         | •         |              | •                           | •                          |
| 15,000 (1.25)                    | •                 | •                          | •                         | •         |              | •                           | •                          |
| 18,000 (1.5)                     | •                 | •                          | •                         | •         |              | •                           | •                          |
| 24,000 (2)                       | •                 | •                          |                           | •         | •            | •                           | •                          |
| 30,000 (2.5)                     |                   | •                          |                           | •         | •            |                             |                            |
| 36,000 (3)                       |                   | •                          |                           | •         | •            |                             |                            |
| 42,000 (3.5)                     |                   | •                          |                           |           |              |                             |                            |
| 48,000 (4)                       |                   | •                          |                           |           | •            |                             |                            |
| 54,000 (4.5)                     |                   | •                          |                           |           |              |                             |                            |



| Cooling Capacity<br>kBTU/h (Ton) | Ducted Models |                  |                    |                                     |             |   |
|----------------------------------|---------------|------------------|--------------------|-------------------------------------|-------------|---|
|                                  | Slim Ducted   | Concealed Ducted | High Static Ducted | Vertical Air<br>Handling Unit (AHU) | Outside Air | Rooftop Unit Air<br>Handling Unit (AHU) |
| 7,500 (0.6)                      | •             | •                |                    |                                     |             |   |
| 9,500 (0.8)                      | •             | •                |                    |                                     |             |   |
| 12,000 (1)                       | •             | •                |                    | •                                   |             |   |
| 15,400 (1.25)                    | •             | •                |                    |                                     |             |   |
| 18,000 (1.5)                     | •             | •                |                    | •                                   |             |   |
| 21,000 (1.75)                    |               | •                |                    |                                     |             |   |
| 24,000 (2)                       |               | •                | •                  | •                                   |             |   |
| 30,000 (2.5)                     |               | •                | •                  | •                                   |             |   |
| 36,000 (3)                       |               | •                | •                  | •                                   |             | •                                       |
| 42,000 (3.5)                     |               | •                |                    | •                                   |             |   |
| 48,000 (4)                       |               | •                | •                  | •                                   | •           | •                                       |
| 54,000 (4.5)                     |               | •                | •                  |                                     |             |   |
| 60,000 (5)                       |               |                  |                    | •                                   |             | •                                       |
| 72,000 (6)                       |               |                  | •                  |                                     | •           |   |
| 96,000 (8)                       |               |                  | •                  |                                     | •           |   |
| 120,000 (10)                     |               |                  |                    |                                     | •           |   |

# 1-Way Cassette



## MMU-UP\*\*\*1YHP-UL

- Single louver that can be positioned at different angles
- Attractive grill / panel
- Built-in condensate lift (15.4")

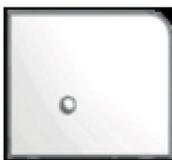
| Model Name                            |                         | MMU-   | UP0071YHP-UL    | UP0091YHP-UL    | UP0121YHP-UL    | UP0151YHP-UL    | UP0181YHP-UL    | UP0241YHP       |
|---------------------------------------|-------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Power Supply                          |                         | 230V (208V/230V) / Single-Phase / 60Hz (Separate power supply for indoor units is required.) |                 |                 |                 |                 |                 |                 |
| Cooling Capacity (*1)                 |                         | kBTU/h   | 7.5             | 9.5             | 12.0            | 15.4            | 18.0            | 24.0            |
| Heating Capacity (*1)                 |                         | kBTU/h   | 8.5             | 10.5            | 13.5            | 17.0            | 20.0            | 27.0            |
| Running Current                       |                         | A  | 0.18            | 0.19            | 0.20            | 0.24            | 0.26            | 0.34            |
| Power Consumption                     |                         | kW   | 0.017           | 0.018           | 0.019           | 0.025           | 0.027           | 0.042           |
| FCU Dimension                         | Unit                    | Height   | in 5.9          |                 |                 |                 |                 |                 |
|                                       |                         | Width  | in 39.0         |                 |                 |                 |                 |                 |
|                                       |                         | Depth  | in 46.4         |                 |                 |                 |                 |                 |
|                                       | Panel                   | Height   | in 17.7         |                 |                 |                 |                 |                 |
|                                       |                         | Width  | in 48.0         |                 |                 |                 |                 |                 |
|                                       |                         | Depth  | in 21.0         |                 |                 |                 |                 |                 |
| Total Weight                          | Unit                    | lbs  | 31.0            |                 |                 |                 |                 |                 |
|                                       | Panel                   | lbs  | 8.8             |                 |                 |                 |                 |                 |
| Heat Exchanger                        |                         | Finned Tube  |                 |                 |                 |                 |                 |                 |
| Soundproof / Heat-Insulation Material |                         | Non-Flammable Insulation   |                 |                 |                 |                 |                 |                 |
| Fan                                   |                         | Cross Flow Fan   |                 |                 |                 |                 |                 |                 |
| Air Flow Volume                       | Indoor Unit (H / M / L) | cfm  | 295 / 230 / 160 | 305 / 240 / 170 | 315 / 245 / 170 | 440 / 370 / 310 | 470 / 390 / 310 | 555 / 450 / 355 |
| Sound Pressure                        | Indoor Unit (H / M / L) | dB(A)  | 38 / 34 / 25    | 39 / 35 / 26    | 40 / 36 / 26    | 39 / 36 / 33    | 40 / 37 / 33    | 40 / 36 / 26    |
| Motor Output                          |                         | W  | 30.0            |                 |                 |                 |                 |                 |
| Connecting Pipe                       | Gas Side                | in   | 3/8             |                 |                 | 1/2             |                 | 5/8             |
|                                       | Liquid Side             | in   | 1/4             |                 |                 |                 |                 |                 |
|                                       | Drain Side              | in   | VP25            |                 |                 |                 |                 |                 |

(\*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

## Optional Accessories

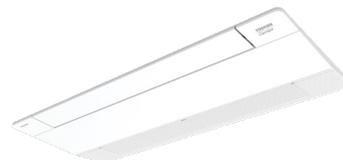


**Occupancy Sensor**  
RBC-SIR41UYP-UL



**Wireless Receiver Kit**  
RBC-AX33UYP-UL

## Required Parts



**Ceiling Panel**  
RBC-UY32P-UL  
RBC-UY42P-UL

# 4-Way Cassette



## MMU-UP\*\*\*1HP-UL

- Four louvers that can each be positioned at different angles
- Customized airflow control
- Built-in condensate lift mechanism (Up to 26")

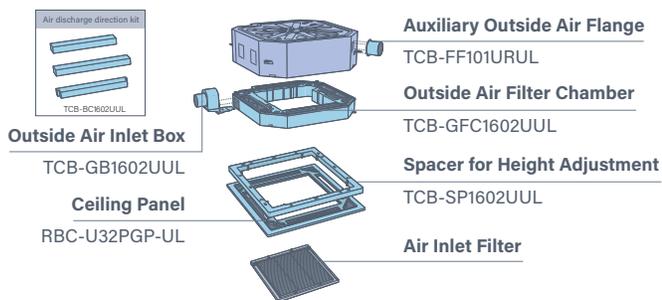
| Model Name                            | MMU-                                   | UP0071HP-UL | UP0091HP-UL   | UP0121HP-UL | UP0151HP-UL     | UP0181HP-UL | UP0241HP-UL     | UP0301HP-UL     | UP0361HP-UL      | UP0421HP-UL        | UP0481HP-UL        | UP0541HP-UL      |
|---------------------------------------|--|-------------|---|-------------|-----------------|-------------|-----------------|-----------------|------------------|--------------------|--------------------|------------------|
| Power Supply                          | 230V (208V/230V) / Single-Phase / 60Hz |             |   |             |                 |             |                 |                 |                  |                    |                    |                  |
| Cooling Capacity (*1)                 | kBTU/h                                 | 7.5         | 9.5   | 12.0        | 15.4            | 18.0        | 24.0            | 30.0            | 36.0             | 42.0               | 48.0               | 54.0             |
| Sensible Cooling Capacity             | kBTU/h                                 | 5.8         | 7.1   | 8.6         | 12.0            | 12.8        | 16.5            | 20.6            | 24.7             | 29.4               | 33.6               | 37.8             |
| Heating Capacity (*1)                 | kBTU/h                                 | 8.5         | 10.5  | 13.5        | 17.0            | 20.0        | 27.0            | 34.0            | 40.0             | 47.5               | 54.0               | 60.0             |
| Power Consumption                     | kW                                     | 0.021       |   | 0.023       | 0.026           |             | 0.036           | 0.043           | 0.088            | 0.112              |                    |                  |
| FCU Dimension                         | Main Unit                              | Height      | 10.1  |             |                 |             |                 |                 |                  |                    | 12.6               |                  |
|                                       |  | Width       |   |             |                 |             |                 |                 |                  |                    | 33.1               |                  |
|                                       |  | Depth       |   |             |                 |             |                 |                 |                  |                    | 33.1               |                  |
| Total Weight                          | Main unit                              | 45.0        |   |             | 51.0            |             |                 |                 | 60.0             |                    |                    |                  |
| Heat Exchanger                        | Finned Tube                            |             |   |             |                 |             |                 |                 |                  |                    |                    |                  |
| Soundproof / Heat-Insulation Material | Polyethylene Foam                      |             |   |             |                 |             |                 |                 |                  |                    |                    |                  |
| Fan                                   | Turbo Fan                              |             |   |             |                 |             |                 |                 |                  |                    |                    |                  |
| Air Flow Volume                       | Indoor Unit (H / M / L)                | cfm         | 470 / 430 / 400   |             | 550 / 480 / 440 |             | 670 / 540 / 490 | 730 / 630 / 510 | 1160 / 840 / 630 | 1250 / 840 / 670   | 1250 / 840 / 670   | 1250 / 890 / 720 |
| Sound Pressure                        | Indoor Unit (H / M / L)                | dB(A)       | 32.5 / 30.5 / 29  |             | 35 / 33 / 31    |             | 38 / 33 / 31    | 41 / 36.5 / 34  | 46 / 40.5 / 36.5 | 48.5 / 40.5 / 37.5 | 48.5 / 40.5 / 37.5 |                  |
| Motor Output                          |  | W           | 60.0  |             |                 |             | 150.0           |                 |                  |                    |                    |                  |
| Flare Connections                     | Gas Side                               | in          | 3/8   |             | 1/2             |             | 5/8             |                 |                  |                    |                    |                  |
|                                       | Liquid Side                            | in          | 1/4   |             |                 |             | 3/8             |                 |                  |                    |                    |                  |
|                                       | Drain Pipe                             | in          | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) |             |                 |             |                 |                 |                  |                    |                    |                  |
| Operating Range for SMMS-I, SMMS-e    | Cooling                                | ° F         | 41 ~ 109  |             |                 |             |                 |                 |                  |                    |                    |                  |
|                                       | Heating                                | ° F         | 14 ~ 109  |             |                 |             |                 |                 |                  |                    |                    |                  |

(\*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F Dry Bulb / 67° F Wet Bulb, Outdoor 95° F Dry Bulb

Heating: Indoor air temperature 70° F Dry Bulb, Outdoor 47° F Dry Bulb / 43° F Wet Bulb

## Optional Accessories



## Required Parts



**Ceiling Panel**  
RBC-U32PGP-UL

# Compact 4-Way Cassette



## MMU-UP\*\*\*1MH-UL

- Perfect for grid-system ceiling
- Matches standard architectural modules for less cutting of ceiling tiles
- Includes 4-Way Cassette features listed on previous page
- Slim design is only 10.6 inches in height, even with an electrical box located inside the unit
- Installation is easy using the panel adjust pocket
- Available for ceilings up to 11.5 feet in height
- Drain-checking hole makes it possible to check the drain pan through the side case
- Built-in condensate lift (24.7")

| Model Name                                   | MMU-   | UP0071MH-UL                            | UP0091MH-UL                   | UP0121MH-UL                 | UP0151MH-UL                 | UP0181MH-UL                 |                             |
|--|--|--|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Cooling Capacity                             | kBTU/h   | 7.5                                    | 9.5                           | 12.0                        | 15.4                        | 18.0                        |                             |
| Heating Capacity                             | kBTU/h   | 8.5                                    | 10.5                          | 13.5                        | 17.0                        | 20.0                        |                             |
| Electrical Characteristics                   | Power Supply   | 230V (208V/230V) / Single-Phase / 60Hz |                               |                             |                             |                             |                             |
|  | Running Current  | A                                      | 0.23                          | 0.24                        | 0.25                        | 0.28                        | 0.36                        |
|  | Power Consumption                                      | kW                                     | 0.023                         | 0.025                       | 0.027                       | 0.030                       | 0.039                       |
|  | Starting Current                                       | A                                      | 0.41                          | 0.43                        | 0.44                        | 0.50                        | 0.62                        |
| Appearance                                   | Main Unit  | Zinc Hot Dipping Steel Plate           |                               |                             |                             |                             |                             |
|  | Ceiling Panel (*1)                                     | Model Name                             | RBC-UM21PG-UL                 |                             |                             |                             |                             |
|  |  | Panel Color                            | Gran White (Mansell 5PB9 / 1) |                             |                             |                             |                             |
| Outer Dimension                              | Main Unit  | Height                                 | in                            |                             |                             |                             | 10.1                        |
|  |  | Width                                  | in                            |                             |                             |                             | 22.6                        |
|  |  | Depth (2*)                             | in                            |                             |                             |                             | 22.6                        |
|  | Ceiling Panel  | Height                                 | in                            |                             |                             |                             | 0.5                         |
|  |  | Width                                  | in                            |                             |                             |                             | 24.4                        |
|  |  | Depth                                  | in                            |                             |                             |                             | 24.4                        |
| Total Weight                                 | Main Unit  | lbs                                    |                               |                             |                             | 33.1                        |                             |
|  | Ceiling Panel  | lbs                                    |                               |                             |                             | 5.5                         |                             |
| Heat Exchanger                               | Finned Tube  |  |                               |                             |                             |                             |                             |
| Soundproof / Heat-Insulation Material        | Non-Flammable Insulation                               |  |                               |                             |                             |                             |                             |
| Fan Unit                                     | Fan  | Turbo fan                              |                               |                             |                             |                             |                             |
|  | Standard Air Flow (H / M + / M / L + / L)              | cfm                                    | 320 / 290 / 270 / 230 / 220   | 340 / 310 / 280 / 230 / 220 | 350 / 320 / 300 / 250 / 240 | 390 / 350 / 320 / 280 / 270 | 450 / 420 / 380 / 320 / 310 |
|  | Motor  | W                                      | 60.0                          |                             |                             |                             |                             |
| Air Filter                                   | Standard Filter (Long life filter) (14.0 in x 14.0 in) |  |                               |                             |                             |                             |                             |
| Controller (*1)                              | Remote Controller                                      |  |                               |                             |                             |                             |                             |
| Connecting Pipe                              | Gas Side   | in                                     | 3/8                           |                             |                             | 1/2                         |                             |
|  | Liquid Side  | in                                     | 1/4                           |                             |                             |                             |                             |
| Drain Port (Nominal dia. mm)                 | VP20 (Polyvinyl chloride tube)                         |  |                               |                             |                             |                             |                             |
| Sound Pressure Level (H / M + / M / L + / L) | dB(A)  | 39 / 36 / 35 / 32 / 31                 | 40 / 37 / 35 / 33 / 31        | 40 / 38 / 36 / 34 / 32      | 43 / 39 / 38 / 35 / 33      | 46 / 44 / 42 / 39 / 37      |                             |
| Sound Power Level (H / M + / M / L + / L)    | dB(A)  | 52 / 49 / 48 / 45 / 44                 | 53 / 50 / 48 / 45 / 44        | 53 / 51 / 49 / 46 / 45      | 55 / 52 / 50 / 47 / 46      | 59 / 57 / 54 / 51 / 49      |                             |
| Operating Range (*3)                         | Cooling  | ° F                                    | 59 to 75 (Wet Bulb)           |                             |                             |                             |                             |
|  | Heating  | ° F                                    | 59 to 82 (Dry Bulb)           |                             |                             |                             |                             |

(\*1) Remote controller and ceiling panel are sold separately

(\*2) Depth doesn't include the Electric parts box

(\*3) Refer to outdoor unit databook for operating range of outdoor units

## Optional Accessories



**Auxiliary Outside Air Flange**  
TCB-FF101URUL

## Required Parts



**Ceiling Panel**  
RBC-UM21PG-UL

# High Wall



## MMK-UP\*\*\*1HP-UL

- Auto-swing louver provides uniform air distribution and enhanced comfort control
- Optional Condensate Drain Kit available
- Aesthetically pleasing and blends with any room's interior decor while efficiently heating and cooling the space

| Model Name                            |                         | MMK-                                   | UP0071HP-UL  | UP0091HP-UL     | UP0121HP-UL     | UP0151HP-UL     | UP0181HP-UL     | UP0241HP-UL                   | UP0301HP-UL     | UP0361HP-UL     |      |
|---------------------------------------|-------------------------|--|--|-----------------|-----------------|-----------------|-----------------|-------------------------------|-----------------|-----------------|------|
| Power Supply                          |                         | 230V (208V/230V) / Single-Phase / 60Hz |  |                 |                 |                 |                 |                               |                 |                 |      |
| Cooling Capacity (*1)                 |                         | kBTU/h                                 | 7.5  | 9.5             | 12.0            | 15.4            | 18.0            | 24.0                          | 30.0            | 36.0            |      |
| Sensible Cooling Capacity             |                         | kBTU/h                                 | 5.6  | 7.1             | 9.0             | 11.6            | 13.5            | 18.0                          | 22.5            | 27.0            |      |
| Heating Capacity (*1)                 |                         | kBTU/h                                 | 8.5  | 10.5            | 13.5            | 17.0            | 20.0            | 27.0                          | 34.0            | 40.0            |      |
| Power Consumption                     |                         | kW                                     | 0.015  | 0.016           | 0.017           | 0.028           | 0.032           | 0.050                         | 0.058           | 0.066           |      |
| FCU Dimension                         | Main Unit               | Height                                 | in   |                 |                 | 11.6            |                 |                               | 12.6            |                 | 13.7 |
|                                       |                         | Width                                  | in   |                 |                 | 31.5            |                 |                               | 41.4            |                 | 47.2 |
|                                       |                         | Depth                                  | in   |                 |                 | 9.1             |                 |                               | 9.9             |                 | 11.0 |
| Total Weight                          | Main Unit               | lbs                                    | 27.0   |                 |                 | 36.0            |                 |                               | 46.3            |                 |      |
| Heat Exchanger                        |                         | Finned Tube                            |  |                 |                 |                 |                 |                               |                 |                 |      |
| Soundproof / Heat-Insulation Material |                         | Polyethylene Foam                      |  |                 |                 |                 |                 |                               |                 |                 |      |
| Fan                                   |                         | Cross Flow Fan                         |  |                 |                 |                 |                 | Centrifugal Fan (Sirocco Fan) |                 |                 |      |
| Air Flow Volume                       | Indoor Unit (H / M / L) | cfm                                    | 285 / 225 / 160  | 300 / 230 / 160 | 320 / 240 / 160 | 495 / 405 / 325 | 530 / 425 / 325 | 700 / 530 / 355               | 940 / 825 / 705 | 970 / 910 / 735 |      |
| Sound Pressure                        | Indoor Unit (H / M / L) | dB(A)                                  | 35 / 30 / 27   | 36 / 31 / 27    | 37 / 32 / 27    | 40 / 36 / 32    | 41 / 37 / 32    | 45 / 39 / 33                  | 48 / 44 / 41    | 50 / 47 / 43    |      |
| Motor Output                          |                         | W                                      | 30.0   |                 |                 |                 |                 |                               | 61.0            |                 |      |
| Flare Connections                     | Gas Side                | in                                     | 3/8  |                 |                 | 1/2             |                 |                               | 5/8             |                 |      |
|                                       | Liquid Side             | in                                     | 1/4  |                 |                 |                 |                 |                               | 3/8             |                 |      |
|                                       | Drain Pipe              | in                                     | VP16 (Polyvinyl Chloride Tube: Dia. 0.87 Internal Dia. 0.63) |                 |                 |                 |                 |                               |                 |                 |      |
| Operating Range for SMMS-I, SMMS-e    | Cooling                 | ° F                                    | 41 ~ 109   |                 |                 |                 |                 |                               | 41 ~ 109.4      |                 |      |
|                                       | Heating                 | ° F                                    | 14 ~ 109   |                 |                 |                 |                 |                               | 14 ~ 109.4      |                 |      |

(\*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

## Included Parts



## Wireless Controller

# Underceiling



## MMC-UP\*\*\*1HP-UL

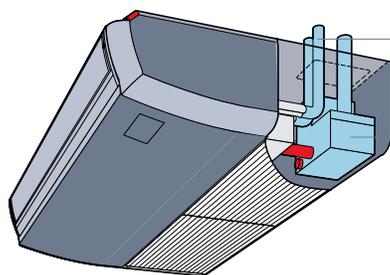
- Airflow angle is automatically set to the most suitable setting according to cooling or heating needs
- Optional Condensate Drain Kit available
- Automatic swing mode enables airflow to reach all areas of the room to create a comfortable ambiance
- Outside air knockout

| Model Name                            |                         |        | MMC-                         | UP0181HP-UL                                 | UP0241HP-UL     | UP0301HP-UL     | UP0361HP-UL      | UP0481HP-UL      |
|---------------------------------------|-------------------------|--------|------------------------------|---|-----------------|-----------------|------------------|------------------|
| Power Supply                          |                         |        |                              | 220V 230V (208V/230V) / Single-Phase / 60Hz |                 |                 |                  |                  |
| Cooling Capacity (*1)                 |                         |        | kBTU/h                       | 18.0  | 24.0            | 30.0            | 36.0             | 48.0             |
| Sensible Cooling Capacity             |                         |        | kBTU/h                       | 13.5  | 18.0            | 22.5            | 27.0             | 36.0             |
| Heating Capacity (*1)                 |                         |        | kBTU/h                       | 20.0  | 27.0            | 34.0            | 40.0             | 54.0             |
| Power Consumption                     |                         |        | kW                           | 0.034                                       |                 | 0.067           |                  | 0.083            |
| FCU Dimension                         | Main Unit               | Height | in                           | 9.3   |                 |                 |                  |                  |
|                                       |                         | Width  | in                           | 37.5  | 50.0            |                 |                  | 62.5             |
|                                       |                         | Depth  | in                           | 27.2  |                 |                 |                  |                  |
| Total Weight                          | Main Unit               | lbs    | 58.0                         | 69.0  |                 |                 | 89.0             |                  |
| Heat Exchanger                        |                         |        |                              | Finned Tube                                 |                 |                 |                  |                  |
| Soundproof / Heat-Insulation Material |                         |        |                              | Polyethylene Foam                           |                 |                 |                  |                  |
| Fan                                   |                         |        |                              | Centrifugal Fan                             |                 |                 |                  |                  |
| Air Flow Volume                       | Indoor Unit (H / M / L) | cfm    |                              | 565 / 425 / 320                             | 845 / 600 / 440 | 845 / 600 / 440 | 1095 / 795 / 600 | 1095 / 900 / 706 |
| Sound Pressure                        | Indoor Unit (H / M / L) | dB(A)  |                              | 38 / 35 / 32                                | 43 / 36 / 33    | 43 / 36 / 33    | 44 / 38 / 32     | 44 / 41 / 35     |
| Motor Output                          |                         |        | W                            | 94.0  |                 |                 | 139.0            |                  |
| Flare Connections                     | Gas Side                | in     | 1/2                          |   |                 |                 | 5/8              |                  |
|                                       | Liquid Side             | in     | 1/4                          |   |                 |                 | 3/8              |                  |
|                                       | Drain Side              | in     | 20 (Polyvinyl Chloride Tube) |   |                 |                 |                  |                  |
| Operating Range for SMMS-I, SMMS-e    | Cooling                 | ° F    | 41 ~ 109                     |   |                 |                 |                  |                  |
|                                       | Heating                 | ° F    | 14 ~ 109                     |   |                 |                 |                  |                  |

(\*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB  
 Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

## Optional Accessories



### Elbow Piping Kit

TCB-KP14CP-UL  
 TCB-KP24CP-UL

### Drain Pump Kit

TCB-DP31CE

## Required Parts



### Auxiliary Outside Air Flange

TCB-FF101URUL

# Floor Console (Recessed)



## MML-UP\*\*\*1BH-UL

- Installed inside a wall or custom-built cabinet to match interior space design

| Model Name                            |                               | MML-   | UP0071BH-UL         | UP0091BH-UL | UP0121BH-UL     | UP0151BH-UL  | UP0181BH-UL     | UP0241BH-UL |
|---------------------------------------|-------------------------------|--|---------------------|-------------|-----------------|--|-----------------|-------------|
| Cooling Capacity                      |                               | kBTU/h   | 7.5                 | 9.5         | 12.0            | 15.4   | 18.0            | 24.0        |
| Heating Capacity                      |                               | kBTU/h   | 8.5                 | 10.5        | 13.5            | 17.0   | 20.0            | 27.0        |
| Electrical Characteristics            |                               | 230V (208V/230V) / Single-Phase / 60Hz             |                     |             |                 |  |                 |             |
| Power Supply                          | Power                         | 208V   | 0.047               |             | 0.095           |  | 0.104           |             |
|                                       | Consumption                   | 230V   | 0.056               |             | 0.114           |  | 0.120           |             |
| Appearance                            |                               | Zinc Hot Dipping Steel Plate                       |                     |             |                 |  |                 |             |
| Dimension                             | Unit                          | Height   | in                  |             | 23.6            |  |                 |             |
|                                       |                               | Width  | in                  |             | 29.3            |  | 41.1            |             |
|                                       |                               | Depth  | in                  |             | 8.7             |  |                 |             |
|                                       | Packing                       | Height   | in                  |             | 26.9            |  |                 |             |
|                                       |                               | Width  | in                  |             | 31.9            |  | 43.7            |             |
|                                       |                               | Depth  | in                  |             | 10.8            |  |                 |             |
| Total Weight                          | Unit                          | lbs  | 50.7                |             | 68.3            |  |                 |             |
|                                       | Packing                       | lbs  | 57.3                |             | 75.0            |  |                 |             |
| Heat Exchanger                        |                               | Finned Tube  |                     |             |                 |  |                 |             |
| Fan Unit                              | Fan                           | Centrifugal Fan                                    |                     |             |                 |  |                 |             |
|                                       | Standard Air Flow (H / M / L) | cfm  | 270 / 240 / 180     |             | 440 / 350 / 290 |  | 560 / 470 / 380 |             |
|                                       | Motor                         | W  | 19.0                |             | 70.0            |  |                 |             |
| Air Filter                            |                               | Standard Filter (Simple Filter) (21.5 in x 8.4 in) |                     |             |                 | Standard Filter (Simple Filter) (33.3 in x 8.4 in) |                 |             |
| Connecting Pipe                       | Gas Side                      | in   | 3/8                 |             | 1/2             |  | 5/8             |             |
|                                       | Liquid Side                   | in   | 1/4                 |             |                 |  | 3/8             |             |
|                                       | Drain Port (Nominal Dia. mm)  | 20 (Polyvinyl Chloride Tube)                       |                     |             |                 |  |                 |             |
| Sound Pressure Level (H / M / L) (*1) | 208V                          | dB(A)  | 40 / 36 / 33        |             |                 |  | 47 / 42 / 35    |             |
|                                       | 230V                          | dB(A)  | 42 / 39 / 36        |             | 43 / 39 / 36    |  | 49 / 44 / 37    |             |
| Operating Range (*2)                  | Cooling                       | ° F  | 59 to 75 (Wet Bulb) |             |                 |  |                 |             |
|                                       | Heating                       | ° F  | 59 to 82 (Dry Bulb) |             |                 |  |                 |             |

(\*1) The actual values in an external operating environment are generally higher than the indicated values due to the contribution from ambient noise

(\*2) Refer to outdoor unit databook for operating range of outdoor units

# Floor Console (Exposed)



## MML-UP\*\*\*1H-UL

- Installed flush against a wall typically under a window or in a room with an exterior wall

| Model Name                            |                               | MML-  | UP0071H-UL                   | UP0091H-UL      | UP0121H-UL          | UP0151H-UL      | UP0181H-UL      | UP0241H-UL      |                 |
|---------------------------------------|-------------------------------|---|------------------------------|-----------------|---------------------|-----------------|-----------------|-----------------|-----------------|
| Cooling Capacity                      |                               | kBTU/h  | 7.5                          | 9.5             | 12.0                | 15.4            | 18.0            | 24.0            |                 |
| Heating Capacity                      |                               | kBTU/h  | 8.5                          | 10.5            | 13.5                | 17.0            | 20.0            | 27.0            |                 |
| Electrical Characteristics            |                               | 230V (208V/230V) / Single-Phase / 60Hz                        |                              |                 |                     |                 |                 |                 |                 |
| Power Supply                          | Power                         | 208V  | kW                           |                 | 0.080               |                 | 0.098           |                 |                 |
|                                       | Consumption                   | 230V  | kW                           |                 | 0.093               |                 | 0.113           |                 |                 |
| Appearance                            |                               | Silky Shade (Munsell 1Y8.5/0.5)                               |                              |                 |                     |                 |                 |                 |                 |
| Dimension                             | Unit                          | Height  | in                           |                 |                     |                 |                 |                 | 24.8            |
|                                       |                               | Width   | in                           |                 |                     |                 |                 |                 | 37.4            |
|                                       |                               | Depth   | in                           |                 |                     |                 |                 |                 | 9.1             |
|                                       | Packing                       | Height  | in                           |                 |                     |                 |                 |                 | 29.0            |
|                                       |                               | Width   | in                           |                 |                     |                 |                 |                 | 41.3            |
|                                       |                               | Depth   | in                           |                 |                     |                 |                 |                 | 12.9            |
| Total Weight                          | Unit                          | lbs   |                              | 81.6            |                     |                 | 88.2            |                 |                 |
|                                       | Packing                       | lbs   |                              | 88.2            |                     |                 | 94.8            |                 |                 |
| Heat Exchanger                        |                               | Finned Tube   |                              |                 |                     |                 |                 |                 |                 |
| Fan Unit                              | Fan                           |   | Centrifugal Fan              |                 |                     |                 |                 |                 |                 |
|                                       | Standard Air Flow (H / M / L) |   | cfm                          | 280 / 250 / 210 | 280 / 250 / 210     | 530 / 460 / 380 | 530 / 460 / 380 | 640 / 550 / 460 | 640 / 550 / 460 |
|                                       | Motor                         |   | W                            | 19.0            |                     | 45.0            |                 | 70.0            |                 |
| Air Filter                            |                               | Standard Filter (Simple Filter) (18.4 in x 6.3 in x 2 sheets) |                              |                 |                     |                 |                 |                 |                 |
| Connecting Pipe                       | Gas Side                      |   | in                           | 3/8             |                     |                 | 1/2             |                 | 5/8             |
|                                       | Liquid Side                   |   | in                           | 1/4             |                     |                 |                 |                 | 3/8             |
|                                       | Drain Port (Nominal Dia. mm)  |   | 20 (Polyvinyl Chloride Tube) |                 |                     |                 |                 |                 |                 |
| Sound pressure level (H / M / L) (*1) | 208V                          | dB(A)   | 39 / 38 / 35                 |                 | 47 / 44 / 40        |                 | 51 / 46 / 41    |                 |                 |
|                                       | 230V                          | dB(A)   | 42 / 40 / 38                 |                 | 50 / 46 / 42        |                 | 53 / 48 / 43    |                 |                 |
| Operating Range (*2)                  | Cooling                       |   | ° F                          |                 | 59 to 75 (Wet Bulb) |                 |                 |                 |                 |
|                                       | Heating                       |   | ° F                          |                 | 59 to 82 (Dry Bulb) |                 |                 |                 |                 |

(\*1) The actual values in an external operating environment are generally higher than the indicated values due to the contribution from ambient noise

(\*2) Refer to outdoor unit databook for operating range of outdoor units

# Slim Ducted (Low Profile)



## MMD-UP\*\*\*1SPH-UL

- Quiet, powerful operation
- Only 8.3 inches in height allows for greater application flexibility
- Three-step static pressure setup
- Concealed installation within a ceiling void
- Outside air intake available
- Built-in condensate lift (23.1")
- No filters provided with the unit
- Can be used with any style of air diffuser

| Model Name                                   | MMD-                         | UP0071SPH-UL   | UP0091SPH-UL                 | UP0121SPH-UL                | UP0151SPH-UL   | UP0181SPH-UL                |                        |
|--|------------------------------|--|------------------------------|-----------------------------|--|-----------------------------|------------------------|
| Cooling Capacity                             | kBTU/h                       | 7.5  | 9.5                          | 12.0                        | 15.4   | 18.0                        |                        |
| Heating Capacity                             | kBTU/h                       | 8.5  | 10.5                         | 13.5                        | 17.0   | 20.0                        |                        |
| Electrical Characteristics                   | Power Supply                 | 230V (208V/230V) / Single-Phase / 60Hz                 |                              |                             |  |                             |                        |
|  | Running Current              | A  | 0.53                         | 0.57                        | 0.63   | 0.59                        | 0.69                   |
|  | Power Consumption            | kW   | 0.048                        | 0.051                       | 0.057  | 0.054                       | 0.069                  |
|  | Starting Current             | A  | 0.93                         | 1.00                        | 1.10   | 1.03                        | 1.21                   |
| Appearance                                   |                              | Zinc Hot Dipping Steel Plate                           |                              |                             |  |                             |                        |
| Dimension                                    | Height                       | in   | 8.3                          |                             |  |                             |                        |
|  | Width                        | in   | 27.6                         |                             | 35.4   |                             |                        |
|  | Depth                        | in   | 17.7                         |                             |  |                             |                        |
| Total Weight                                 | lbs                          | 37.5   |                              |                             | 44.1   |                             |                        |
| Heat Exchanger                               |                              | Finned Tube  |                              |                             |  |                             |                        |
| Soundproof / Heat-Insulating Material        |                              | Polyethylene Foam + Polyurethane Foam                  |                              |                             |  |                             |                        |
| Fan  |                              | Centrifugal Fan (Sirocco Fan)                          |                              |                             |  |                             |                        |
| Standard Air Flow (H / M + / M / L + / L)    | cfm                          | 320 / 290 / 270 / 250 / 240                            | 340 / 310 / 290 / 260 / 250  | 350 / 320 / 310 / 280 / 260 | 410 / 390 / 380 / 350 / 320                            | 460 / 450 / 430 / 410 / 380 |                        |
| Motor Output                                 | W                            | 31.0   |                              |                             | 46.0   |                             |                        |
| External Static Pressure (No Filter)         | in H2O                       | 0.05 (Factory setting) -0.09 -0.13 -0.17 -0.21 <5step> |                              |                             | 0.07 (Factory setting) -0.11 -0.15 -0.19 -0.23 <5step> |                             |                        |
| Controller                                   |                              | Remote Controller                                      |                              |                             |  |                             |                        |
| Air Filter                                   |                              | Local Procurement                                      |                              |                             |  |                             |                        |
| Connecting Pipe                              | Gas Side                     | in   | 3/8                          |                             | 1/2  |                             |                        |
|  | Liquid Side                  | in   | 1/4                          |                             |  |                             |                        |
|  | Drain Port (Nominal Dia. mm) |  | 25 (Polyvinyl Chloride Tube) |                             |  |                             |                        |
| Sound Pressure Level (H / M + / M / L + / L) | Under Air Intake             | dB(A)  | 43 / 41 / 39 / 37 / 35       | 44 / 42 / 40 / 38 / 37      | 45 / 43 / 41 / 39 / 38                                 | 41 / 40 / 39 / 37 / 36      | 44 / 43 / 42 / 40 / 39 |
|  | Back Air Intake              | dB(A)  | 33 / 32 / 30 / 29 / 27       | 34 / 33 / 31 / 30 / 28      | 36 / 33 / 32 / 30 / 29                                 | 31 / 30 / 29 / 28 / 27      | 33 / 32 / 31 / 30 / 29 |
| Operating Range (*1)                         | Cooling                      | ° F  | 59 to 75 (Wet Bulb)          |                             |  |                             |                        |
|  | Heating                      | ° F  | 59 to 82 (Dry Bulb)          |                             |  |                             |                        |

(\*1) Refer to outdoor unit databook for operating range of outdoor unit

## Optional Accessories



### Auxiliary Outside Air Flange

TCB-FF101URUL

# Concealed Ducted (Medium Static)



## MMD-UP\*\*\*1BHP-UL

- External static pressure can be raised as high as 0.8 inches WG, so all areas of the room can be reached for even temperature distribution, no matter how complex the layout
- Built-in condensate lift (24.3")

| Model Name                            | MMD-                                | UP0071BHP-UL                           | UP0091BHP-UL                   | UP0121BHP-UL    | UP0151BHP-UL    | UP0181BHP-UL    | UP0211BHP-UL    | UP0071BHP-UL    | UP0091BHP-UL     | UP0121BHP-UL      | UP0151BHP-UL | UP0181BHP-UL | UP0211BHP-UL |  |
|---------------------------------------|-------------------------------------|--|--------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|-------------------|--------------|--------------|--------------|--|
| Cooling Capacity (*1)                 | kBTU/h                              | 7.5                                    | 9.5                            | 12.0            | 15.4            | 18.0            | 21.0            | 24.0            | 30.0             | 36.0              | 42.0         | 48.0         | 54.0         |  |
| Heating Capacity (*1)                 | kBTU/h                              | 8.5                                    | 10.5                           | 13.5            | 17.0            | 20.0            | 24.0            | 27.0            | 34.0             | 40.0              | 47.5         | 54.0         | 60.0         |  |
| Power Supply                          |                                     | 230V (208V/230V) / Single-Phase / 60Hz |                                |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
| Electrical Characteristics            | Running Current                     | A                                      | 0.48                           | 0.62            | 0.89            | 0.96            | 1.35            | 1.41            | 2.12             | 2.18              |              |              |              |  |
|                                       | Power Consumption                   | kW                                     | 0.07                           | 0.09            | 0.13            | 0.14            | 0.21            | 0.22            | 0.33             | 0.34              |              |              |              |  |
|                                       | Starting Current                    | A                                      | 0.68                           | 0.82            | 1.29            | 1.36            | 2.15            | 2.21            | 2.92             | 2.98              |              |              |              |  |
|                                       | Appearance                          |  | Zinc Hot Dipping Steel Plate   |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
| Outer Dimension                       | Height                              | in                                     | 10.9                           |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
|                                       | Width                               | in                                     | 27.6                           |                 |                 |                 | 39.4            |                 |                  |                   | 55.2         |              |              |  |
|                                       | Dept                                | in                                     | 29.5                           |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
| Total Weight                          | lbs                                 | 56.0                                   |                                |                 |                 | 73.0            |                 |                 |                  | 93.0              |              |              |              |  |
| Heat Exchanger                        | Finned Tube                         |  |                                |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
| Soundproof / Heat-Insulation Material | Polyethylene Foam                   |  |                                |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
| Fan Unit                              | Fan                                 | Centrifugal Fan (Sirocco Fan)          |                                |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
|                                       | Standard Air Flow (H / M / L)       | cfm                                    | 320 / 265 / 210                | 395 / 330 / 265 | 590 / 490 / 395 | 625 / 490 / 395 | 705 / 580 / 510 | 740 / 650 / 545 | 1130 / 955 / 810 | 1175 / 1025 / 885 |              |              |              |  |
|                                       | Motor Output                        | W                                      | 150                            |                 |                 |                 |                 |                 |                  |                   | 250          |              |              |  |
| External Static Pressure (Default)    | in H2O                              | 0.4                                    |                                |                 |                 |                 | 0.6             |                 |                  |                   | 0.8          |              |              |  |
| External Static Pressure              | in H2O                              | 0.6                                    |                                |                 |                 |                 | 0.8             |                 |                  |                   |              |              |              |  |
| Controller (*2)                       | Wired or Infrared Remote Controller |  |                                |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
| Air Filter                            | Standard Filter Supplied            |  |                                |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
| Flare Connections                     | Gas Side                            | in                                     | 3/8                            |                 |                 |                 | 5/8             |                 |                  |                   |              |              |              |  |
|                                       | Liquid Side                         | in                                     | 1/4                            |                 |                 |                 | 3/8             |                 |                  |                   |              |              |              |  |
|                                       | Drain Pipe                          | in                                     | VP25 (Polyvinyl Chloride Tube) |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
| Sound Pressure Level (H / M / L)      | dB(A)                               | 39 / 34 / 30                           | 41 / 36 / 32                   | 44 / 41 / 35    | 45 / 41 / 35    | 44 / 34 / 30    | 45 / 35 / 31    | 46 / 41 / 37    | 47 / 42 / 38     |                   |              |              |              |  |
| Sound Power Level (High)              | dB(A)                               | 54.0                                   | 56.0                           | 59.0            | 60.0            | 59.0            | 60.0            | 61.0            | 62.0             |                   |              |              |              |  |
| Operating Range (*3)                  | Cooling                             | ° F                                    | 41 ~ 109                       |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |
|                                       | Heating                             | ° F                                    | 14 ~ 109                       |                 |                 |                 |                 |                 |                  |                   |              |              |              |  |

(\*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

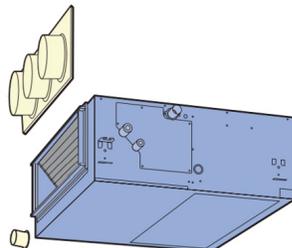
(\*2) Controller is sold separately

(\*3) Non-attached filter

## Optional Accessories

### Zoning Duct Flange

TCB-SF56C6BP-UL  
TCB-SF80C6BP-UL  
TCB-SF160C6BP-UL



### Auxiliary Fresh Air Flange

TCB-FF151US-E

### Filter Rail Kit

TCB-FW561DP-UL  
TCB-FW801DP-UL  
TCB-FW1401DP-UL

# High Static Ducted



## MMD-UP\*\*\*1HP-UL

- Compatible with external static pressures up to 1.0 inches WG
- Filters provided with the unit (Except 6 & 8 ton)
- Switchable static pressure
- Built-in condensate lift (24.3") (Except 6 & 8 ton)

| Model Name                            |                         | MMD-   | UP0241HP-UL  | UP0301HP-UL     | UP0361HP-UL      | UP0481HP-UL       | UP0541HP-UL       | UP0721HP-UL        | UP0961HP-UL        |
|---------------------------------------|-------------------------|--------|--|-----------------|------------------|-------------------|-------------------|--------------------|--------------------|
| Power Supply                          |                         |        | 230V (208V/230V) / Single-Phase / 60Hz                     |                 |                  |                   |                   |                    |                    |
| Cooling Capacity (*1)                 |                         | kBTU/h | 24.0   | 30.0            | 36.0             | 48.0              | 54.0              | 72.0               | 96.0               |
| Sensible Cooling Capacity             |                         | kBTU/h | 19.2   | 24.0            | 28.8             | 38.4              | 43.2              | 60.1               | 80.6               |
| Heating Capacity (*1)                 |                         | kBTU/h | 27.0   | 34.0            | 40.0             | 54.0              | 60.0              | 81.0               | 108.0              |
| Power Consumption                     |                         | kW     | 0.255  | 0.295           | 0.350            | 0.385             | 0.435             | 0.54               | 0.79               |
| FCU Dimension                         | Main Unit               | Height | in   |                 | 11.8             |                   |                   | 17.6               |                    |
|                                       |                         | Width  | in   |                 | 39.4             |                   |                   | 55.1               |                    |
|                                       |                         | Depth  | in   |                 | 29.6             |                   |                   | 35.4               |                    |
| Total Weight                          | Main Unit               | lbs    | 80.0   |                 | 98.0             |                   |                   | 218.0              |                    |
| External Static Pressure (Default)    |                         | in H2O |  |                 | 0.8              |                   |                   | 0.6                |                    |
| External Static Pressure              |                         | in H2O |  |                 | 1.0              |                   |                   | 0.2-1.0 (7 Steps)  |                    |
| Heat Exchanger                        |                         |        | Finned Tube  |                 |                  |                   |                   |                    |                    |
| Soundproof / Heat-Insulation Material |                         |        | Polyethylene Foam  |                 |                  |                   |                   |                    |                    |
| Fan                                   |                         |        | Centrifugal Fan  |                 |                  |                   |                   |                    |                    |
| Air Flow Volume                       | Indoor Unit (H / M / L) | cfm    | 705 / 570 / 470  | 885 / 795 / 705 | 1130 / 920 / 790 | 1235 / 1025 / 835 | 1415 / 1200 / 975 | 2235 / 1885 / 1470 | 2825 / 2470 / 2060 |
| Sound Pressure (*2)                   | Indoor Unit (H / M / L) | dB(A)  | 45 / 35 / 30   | 50 / 46 / 43    | 51 / 46 / 41     | 52 / 47 / 42      | 53 / 49 / 44      | 44 / 40 / 36       | 46 / 42 / 38       |
| Motor Output                          |                         | W      | 250.0  |                 | 350.0            |                   |                   | 1000.0             |                    |
| Flare Connections                     | Gas Side                | in     |  |                 | 5/8              |                   |                   | 7/8                |                    |
|                                       | Liquid Side             | in     |  |                 | 3/8              |                   |                   | 1/2                |                    |
|                                       | Drain Pipe              |        | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) |                 |                  |                   |                   |                    |                    |
| Operating Range for SMMS-I, SMMS-e    | Cooling                 | ° F    | 41 ~ 109   |                 |                  |                   |                   |                    |                    |
|                                       | Heating                 | ° F    | 14 ~ 109   |                 |                  |                   |                   |                    |                    |

(\*1) Rating testing conditions:

Cooling: Indoor air temperature 80° F DB / 67° F WB, Outdoor 95° F DB

Heating: Indoor air temperature 70° F DB, Outdoor 47° F DB / 43° F WB

The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping

The reference piping consists of 16'5"(5m) of main piping and 8'2"(2.5m) of branch piping connected with 0 meter height

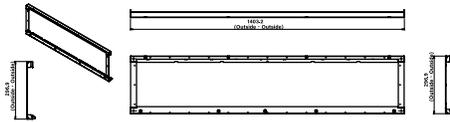
(\*2) The sound level are measured in an anechoic chamber in accordance with JIS B 8616

Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound

## Optional Accessories



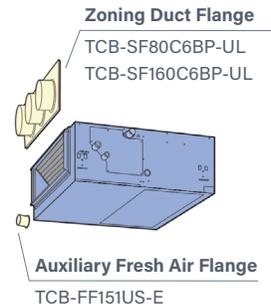
**Filter Kit**  
TCB-LK801DP-UL



**Filter Kit**  
TCB-LK1401DP-UL



**Filter Kit**  
TCB-LK2801DP-UL



### Zoning Duct Flange

TCB-SF80C6BP-UL  
TCB-SF160C6BP-UL

### Auxiliary Fresh Air Flange

TCB-FF151US-E

# Vertical Air Handling Unit (AHU)



## MMD-UP\*\*\*1VHG-UL

- Multi-position installation option
- Energy-efficient ECM operation ensures proper performance across a wide range of duct static pressure, maximizing cooling and heating capacities
- All sizes of the units are multi-position ready for upflow or horizontal applications
- Units can also be suspended from roof or ceiling joints
- 1" filter rack

| Model Name                 | MMD-   | UP0121VHG-UL                    | UP0181VHG-UL            | UP0241VHG-UL    | UP0301VHG-UL    | UP0361VHG-UL      | UP0421VHG-UL          | UP0481VHG-UL          | UP0601VHG-UL          |                       |
|----------------------------|--|---------------------------------|-------------------------|-----------------|-----------------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Cooling Capacity           | kBTU/h   | 12.0                            | 18.0                    | 24.0            | 30.0            | 36.0              | 42.0                  | 48.0                  | 60.0                  |                       |
| Heating Capacity           | kBTU/h   | 13.5                            | 20.0                    | 27.0            | 34.0            | 40.0              | 45.0                  | 54.0                  | 67.0                  |                       |
|                            | kW   | 4.0                             | 5.9                     | 7.9             | 10.0            | 11.7              | 13.2                  | 15.8                  | 19.6                  |                       |
| Electrical Characteristics | Power Supply   | 208V/230V / Single-Phase / 60Hz |                         |                 |                 |                   |                       |                       |                       |                       |
|                            | Power Consumption (*1)                               | kW                              | 0.12                    | 0.174           | 0.178           | 0.296             | 0.41                  | 0.386                 | 0.496                 | 0.938                 |
|                            | MCA  | A                               | 1.9                     | 2.8             |                 | 4.5               |                       | 6.1                   | 7.5                   | 9.5                   |
|                            | MOCPS  | A                               | 15                      |                 |                 |                   |                       |                       |                       |                       |
| Dimension                  | Unit   | Height                          | in                      |                 | 46.9            |                   | 51.9                  |                       | 55.9                  | 57.9                  |
|                            |  | Width                           | in                      |                 | 17.7            |                   | 20.2                  |                       | 22.2                  | 24.2                  |
|                            |  | Depth                           | in                      |                 | 22.3            |                   | 25.3                  |                       | 27.3                  | 31.3                  |
|                            | Packing  | Height                          | in                      |                 | 53.5            |                   | 58.5                  |                       | 62.5                  | 64.5                  |
|                            |  | Width                           | in                      |                 | 24.0            |                   | 24.0                  |                       | 28.0                  | 28.0                  |
|                            |  | Depth                           | in                      |                 | 30.0            |                   | 30.0                  |                       | 33.0                  | 33.0                  |
| Total Weight               | Unit   | lbs                             | 130.0                   | 164.0           | 170.0           | 200.0             | 253.0                 | 253.0                 | 336.0                 |                       |
|                            | Packing  | lbs                             | 157.0                   | 191.0           | 216.0           | 257.0             | 336.0                 | 336.0                 | 336.0                 |                       |
| Heat Exchanger             | Type   | Finned Tube                     |                         |                 |                 |                   |                       |                       |                       |                       |
|                            | Shape  | Slab                            |                         |                 |                 |                   |                       |                       |                       |                       |
|                            | Row x Length   | in                              | 2 x 17                  | 3 x 17          | 3 x 20          | 3 x 22            | 3 x 26                | 3 x 26                | 3 x 26                |                       |
| Fan Unit                   | Fan  | Sirocco Fan                     |                         |                 |                 |                   |                       |                       |                       |                       |
|                            | Nominal Air Volume                                   | cfm                             | 480.0                   | 670.0           | 760.0           | 1,000.0           | 1,160.0               | 1,400.0               | 1,600.0               | 2,000.0               |
|                            | Air Volume (H / M / L) (at standard static pressure) | cfm                             | 480 / 440 / 340         | 670 / 640 / 600 | 760 / 660 / 600 | 1,000 / 990 / 950 | 1,200 / 1,150 / 1,050 | 1,400 / 1,340 / 1,260 | 1,600 / 1,510 / 1,420 | 2,000 / 1,830 / 1,640 |
|                            | Fan Motor  | Type                            | Direct Drive (EC Motor) |                 |                 |                   |                       |                       |                       |                       |
|                            |  | HP                              | 1/3HP                   |                 | 1/2HP           |                   | 3/4HP                 |                       | 1HP                   |                       |
|                            | External Static Pressure (*2)                        | Standard                        | in H2O                  | 0.3             |                 | 0.5               |                       | 0.5                   |                       | 0.8                   |
| Max                        |  | in H2O                          | 0.5                     |                 | 0.8             |                   | 0.8                   |                       | 0.8                   |                       |
| Connecting Pipe            | Gas Side   | in                              | 3/8 (Flare)             | 1/2 (Flare)     | 5/8 (Flare)     |                   |                       |                       |                       |                       |
|                            | Liquid Side  | in                              | 1/4 (Flare)             |                 | 3/8 (Flare)     |                   |                       |                       |                       |                       |
|                            | Drain Port (Nominal dia.)                            | in                              | 3/4 FPT                 |                 |                 |                   |                       |                       |                       |                       |

(\*1) The value is based on the standard external static pressure with high tap fan mode

(\*2) With standard MERV 3 filter attached

| Product Name                 | Model Name       | Description            |
|------------------------------|------------------|------------------------|
| Electric Heater (240V/208V)  | 1.0 kW / 0.8 kW  | TCB-HT101VDGUL         |
|                              | 3.0 kW / 2.3 kW  | TCB-HT301VDGUL         |
|                              | 5.0 kW / 3.8 kW  | TCB-HT501VDGUL         |
|                              | 6.0 kW / 4.5 kW  | TCB-HT601VDGUL         |
|                              | 8.0 kW / 6.0 kW  | TCB-HT801VDGUL         |
|                              | 9.5 kW / 7.1 kW  | TCB-HT951VDGUL         |
| Plenum, with 2" MERV8 Filter | TCB-PL2S241VDGUL | For 012, 018, 024 type |
|                              | TCB-PL2S361VDGUL | For 030, 036 type      |
|                              | TCB-PL2S481VDGUL | For 042, 048 type      |
|                              | TCB-PL2S601VDGUL | For 060 type           |
| Filter Box, 2" MERV8 Filter  | TCB-FB2F241VDGUL | For 012, 018, 024 type |
|                              | TCB-FB2F361VDGUL | For 030, 036 type      |
|                              | TCB-FB2F481VDGUL | For 042, 048 type      |
|                              | TCB-FB2F601VDGUL | For 060 type           |

Notes:

1. Plenum has 1/2" fiberglass insulation
2. 2" filter box has filter rails that can be removed to allow use with 4" filter
3. Return air grill(s) and duct collars are field-provided and field-installed

4. Plenum has return air duct opening on front and right side as standard. Field-changeable to front and left side duct opening. Additional opening will require the field cut and modification.

# Outside Air



## MMD-UP\*\*\*1HFP-UL

- Controls discharge air temperature
- Energy-efficient DC fan motor
- CFM ranges from 600 to 1,200 for a wide array of outside air applications

| Model Name                                     |  | MMD-              | UP0481HFP-UL                    | UP0721HFP-UL                | UP0961HFP-UL                   | UP1201HFP-UL                     |               |
|--|--|-------------------|---------------------------------|-----------------------------|--------------------------------|----------------------------------|---------------|
| Cooling Capacity (*1)                          |  | kBTU/h            | 48.0                            | 72.0                        | 96.0                           | 120.0                            |               |
| Heating Capacity (*1)                          |  | kBTU/h            | 30.0                            | 47.0                        | 59.0                           | 75.0                             |               |
| Electrical Characteristics                     |  | Power Supply      | 208V/230V / Single-Phase / 60Hz |                             |                                |                                  |               |
|  |  | Running Current   | A                               | 0.77                        | 0.86                           | 1.07                             | 1.30          |
|  |  | Power Consumption | kW                              | 0.11                        | 0.16                           | 0.20                             | 0.33          |
|  |  | Starting Current  | A                               | 1.95                        |                                | 7.80                             |               |
| Outer Dimension                                |  | Height            | in                              | 12.9                        |                                | 18.8                             |               |
|  |  | Width             | in                              |                             | 56.3                           |                                  |               |
|  |  | Depth             | in                              | 29.5                        |                                | 35.4                             |               |
| Total Weight                                   |  | lbs               | 97.0                            |                             |                                | 218.0                            |               |
| Heat Exchanger                                 |  |                   | Finned Tube                     |                             |                                |                                  |               |
| Soundproof / Heat-Insulation Material          |  |                   | Non-Flammable Insulation        |                             |                                |                                  |               |
| Fan  |  |                   | Centrifugal Fan                 |                             |                                |                                  |               |
| Standard Air Flow ( H / M + / M / L + / L )    |  | cfm               | 635 / 580 / 545 / 495 / 445     | 990 / 920 / 850 / 775 / 705 | 1235 / 1150 / 1060 / 955 / 865 | 1800 / 1660 / 1520 / 1395 / 1255 |               |
| Motor  |  | kW                | 0.35                            |                             | 0.94                           |                                  |               |
| External Static Pressure (Factory Default)     |  | in H2O            | 0.4                             |                             |                                |                                  |               |
| External Static Pressure                       |  | in H2O            | 0.8-0.7-0.6-0.5-0.4-0.3-0.2     |                             |                                |                                  |               |
| Air Flow Limit                                 |  | Lower Limit       | cfm                             | 355.0                       | 565.0                          | 775.0                            | 1060.0        |
|  |  | Upper Limit       | cfm                             | 775.0                       | 1200.0                         | 1485.0                           | 2120.0        |
| Air Filter                                     |  |                   | Field Supply                    |                             |                                |                                  |               |
| Controller                                     |  |                   | Wired Remote Controller         |                             |                                |                                  |               |
| Connecting Pipe                                |  | Gas Side          | in                              | 5/8                         | 7/8                            | 1" 1/8                           |               |
|  |  | Liquid Side       | in                              | 3/8                         | 1/2                            | 5/8                              |               |
|  |  | Drain Pipe        | in                              | Outside Dia. 1" 1/4         |                                |                                  |               |
| Sound Pressure Level ( H / M + / M / L + / L ) |  | dB(A)             | 38 / 37 / 35 / 32 / 31          | 38 / 37 / 36 / 35 / 33      | 39 / 38 / 36 / 35 / 33         | 42 / 40 / 38 / 37 / 35           |               |
| Operation Range for SMMS-u                     |  | Cooling (*2)      | ° F DB                          |                             |                                |                                  | 41 ~ 115 (*4) |
|  |  | Heating (*3)      | ° F BD                          |                             |                                |                                  | 14 ~ 115      |
| Operation Range for SMMS-i, SMMS-e             |  | Cooling (*2)      | ° F DB                          |                             |                                |                                  | 41 ~ 115 (*5) |
|  |  | Heating (*3)      | ° F BD                          |                             |                                |                                  | 23 ~ 115      |

\* The setting temperature is Cooling: 55° F–77° F, Heating: 64° F–86° F

\* Height difference between outside air units must be within 16.4 ft (5m)

(\*1) Rating testing conditions:

Cooling: Outdoor air temperature 91° F DB / 82° F WB, setting temperature 64° F

Heating: Outdoor air temperature 32° F DB / 26.78° F WB, setting temperature 77° F

(\*2) When supply air temperature is "setting temperature + 5° F" or less, outside air unit operates as FAN mode

(\*3) When supply air temperature is "setting temperature - 5° F" or over, outside air unit operates as FAN mode

(\*4) 115-126° F is also available but temporary operable

(\*5) Case of setting for all outside air unit connection (SMMS-e) is available up to 115° F (46° C)

# Rooftop Unit

ecoblue™ technology



## 40QQ-\*\*\*ABA\*-0A0

- Features EcoBlue™ technology, which includes a more compact vane axial fan and simplified design for better performance
- Lightweight compared to standard rooftop unit
- Direct drive (multi-speed / torque) ECM motor
- Single point electrical connection
- Non-corrosive composite condensate pan
- Access panels with easy grip handles
- 2 inch disposable return air filters

| Model Name                            | 40QQ-                             | 030ABA3-0A0                     | 048ABA3-0A0  | 060ABA3-0A0  | 030ABA6-0A0               | 048ABA6-0A0  | 060ABA6-0A0  |         |
|---------------------------------------|-----------------------------------|---------------------------------|--------------|--------------|---------------------------|--------------|--------------|---------|
| Cooling Capacity                      | kBTU/h                            | 36.0                            | 48.0         | 60.0         | 36.0                      | 48.0         | 60.0         |         |
| Sensible Cooling Capacity             | kBTU/h                            | 35.2                            | 33.6         | 42.0         | 35.2                      | 33.6         | 42.0         |         |
| Heating Capacity                      | kBTU/h                            | 38.0                            | 52.0         | 66.0         | 38.0                      | 52.0         | 66.0         |         |
| Electrical Characteristics            | Power Supply                      | 208V/230V / Single-Phase / 60Hz |              |              | 460V / Three-Phase / 60Hz |              |              |         |
|                                       | MCA                               | A                               | 8.0          | 11.0         | 2.0                       |              | 3.0          |         |
|                                       | MOCP                              | A                               | 15           |              |                           |              |              |         |
| Appearance                            |                                   | Painted Grey                    |              |              |                           |              |              |         |
| External Dimensions Main Unit         | Height                            | in                              | 33-3/8       | 41-3/8       | 33-3/8                    | 41-3/8       |              |         |
|                                       | Width                             | in                              |              |              | 74-3/8                    |              |              |         |
|                                       | Depth                             | in                              | 46-5/8       |              |                           |              |              |         |
| Total Weight                          | lbs                               | 364.0                           | 388.0        | 401.0        | 364.0                     | 388.0        | 401.0        |         |
| Fan Unit                              | Standard Rated Air Flow (Cooling) | cfm                             | 1,050.0      | 1,350.0      | 1,750.0                   | 1,050.0      | 1,350.0      | 1,750.0 |
|                                       | Standard Rated Air Flow (Heating) | cfm                             | 1,050.0      | 1,750.0      |                           | 1,050.0      | 1,750.0      |         |
|                                       | Motor                             | HP                              | 1.10         | 1.08         | 1.46                      | 1.10         | 1.08         | 1.46    |
|                                       | Motor Type                        |                                 | EC           |              |                           |              |              |         |
| Connecting Pipe                       | Gas Side                          | in                              | 5/8          |              |                           |              |              |         |
|                                       | Liquid Side                       | in                              | 3/8          |              |                           |              |              |         |
|                                       | Drain Port (Nominal Dia.)         | in                              | 3/4          |              |                           |              |              |         |
| Sound Pressure Level (H / M / L) (*1) | dB(A)                             | 76 / 73 / 68                    | 76 / 73 / 66 | 77 / 73 / 66 | 76 / 73 / 68              | 76 / 73 / 66 | 77 / 73 / 66 |         |

(\*1) The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise

| Model Number | CRHEATER323A00 + CRSINGLE037A00     | CRHEATER324A00 + CRSINGLE037A00     | CRHEATER325A00 + CRSINGLE037A00     | CRHEATER326A00 + CRSINGLE037A00      | CRHEATER328A00 + CRSINGLE037A00      |
|--------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| Application  | 4.4 KW, 208/230V, Three-Phase, 60Hz | 6.5 KW, 208/230V, Three-Phase, 60Hz | 8.7 KW, 208/230V, Three-Phase, 60Hz | 10.5 KW, 208/230V, Three-Phase, 60Hz | 16.0 KW, 208/230V, Three-Phase, 60Hz |
| Description  | Single Point Electric Heater        |                                     |                                     |                                      |                                      |

| Model Number | CRHEATER331A00 + CRSINGLE038A00      | CRHEATER333A00 + CRSINGLE037A00 | CRHEATER334A00 + CRSINGLE037A00 | CRHEATER335A00 + CRSINGLE037A00  | CRHEATER336A00 + CRSINGLE037A00  |
|--------------|--------------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|
| Application  | 21.0 KW, 208/230V, Three-Phase, 60Hz | 6.0 KW, 460V, Three-Phase, 60Hz | 8.8 KW, 460V, Three-Phase, 60Hz | 11.5 KW, 460V, Three-Phase, 60Hz | 14.0 KW, 460V, Three-Phase, 60Hz |
| Description  | Single Point Electric Heater         |                                 |                                 |                                  |                                  |

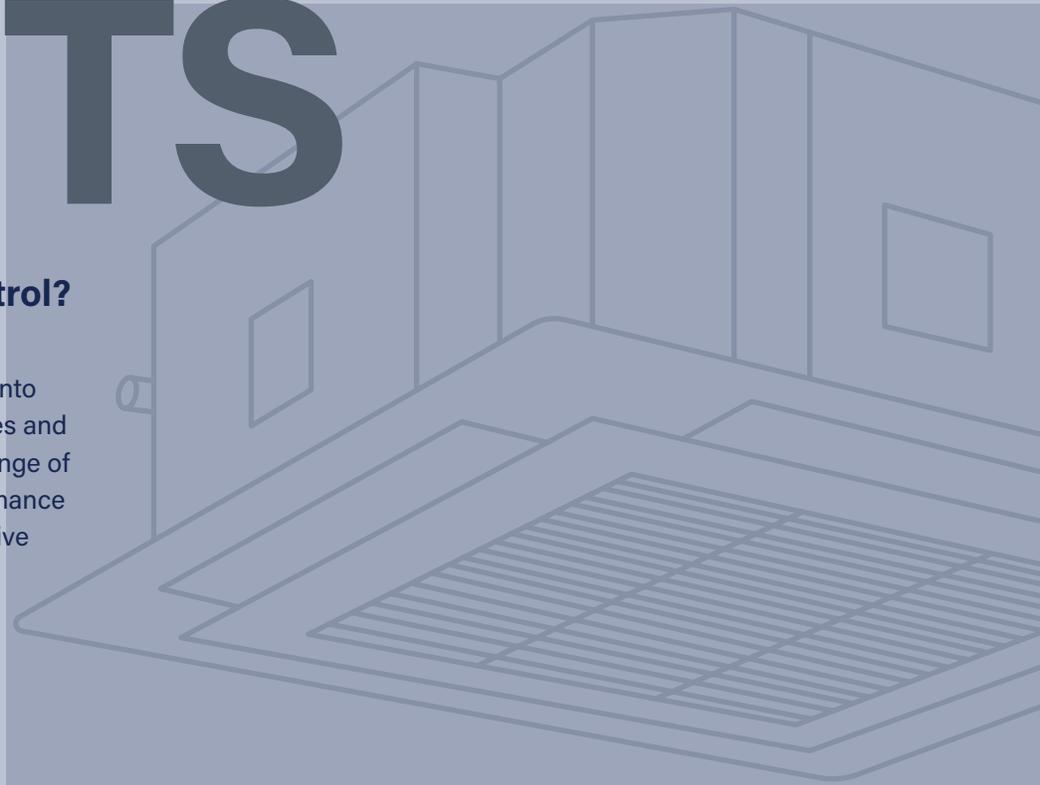
| Model Number | CRHEATER337A00 + CRSINGLE037A00  | CRECOMZR077A00          | CRECOMZR076A00        | CRRFCURB001A01       | CRRFCURB002A01       |
|--------------|----------------------------------|-------------------------|-----------------------|----------------------|----------------------|
| Application  | 23.0 KW, 460V, Three-Phase, 60Hz | -                       | -                     | -                    | -                    |
| Description  | Single Point Electric Heater,    | Economizer - Horizontal | Economizer - Vertical | Roofcurbs - 14" Tall | Roofcurbs - 24" Tall |



# RAV UNITS

## **No Need for Multi-Zone Control? RAV Has You Covered.**

The Toshiba RAV units fit into seamlessly into restaurants, small businesses, office spaces and more. With RAV, you can choose from a range of indoor unit styles to pair with high-performance outdoor units—for a simplified, cost-effective and highly-efficient system.



# RAV Ductless Heat Pumps Outdoor Unit

RAV-SP\*\*2AT2P-UL



| Model Name                       |   | RAV-   | SP122AT2P-UL | SP182AT2P-UL | SP242AT2P-UL | SP302AT2P-UL | SP362AT2P-UL | SP422AT2P-UL | SP482AT2P-UL |  |
|----------------------------------|---|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| Air Flow Volume                  | Cooling / Heating                             | cfm    | 1590 / 1590  |              | 2300 / 2220  |              | 3570 / 2870  |              | 3570 / 3100  |  |
| Sound Pressure Level (High) (*1) | Cooling / Heating                             | dB(A)  | 48 / 52      |              | 52 / 54      |              | 54 / 54      |              | 60 / 60      |  |
| External Dimensions Main Unit    | Height  | in     | 21.7         |              | 35.0         |              | 52.8         |              |              |  |
|                                  | Width   | in     | 30.8         |              | 35.3         |              | 35.4         |              |              |  |
|                                  | Depth   | in     | 11.4         |              |              |              | 12.6         |              |              |  |
| Total Weight                     | Main Unit                                     | lb     | 99.2         |              | 141.1        |              | 218.3        |              | 233.7        |  |
|                                  | Min. Length                                   | ft     |              |              |              |              | 16-1/2       |              |              |  |
| Refrigerant Pipe                 | Max. Total Length                             | ft     | 164          |              |              |              | 246          |              |              |  |
|                                  | Lift (ODU Below IDU)                          | ft     |              |              |              |              | 98           |              |              |  |
|                                  | Lift (ODU Above IDU)                          | ft     |              |              |              |              | 98           |              |              |  |
|                                  | Refrigerant (*2) (Charged Refrigerant Amount) | lbs    | 3.75         |              | 5.51         |              | 6.83         |              | 7.27         |  |
| Flare Connections                | Gas Side                                      | in     | 1/2          |              |              |              | 5/8          |              |              |  |
|                                  | Liquid Side                                   | in     | 1/4          |              |              |              | 3/8          |              |              |  |
| Operating Range                  | Cooling                                       | ° F DB |              |              | 5 to 115     |              |              |              |              |  |
|                                  | Cooling w/ Wind Baffles                       | ° F DB | 5 to 115     |              |              |              | -13 to 115   |              |              |  |
|                                  | Heating                                       | ° F DB |              |              | -13 to 59    |              |              |              |              |  |

(\*1) The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise

(\*2) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

# RAV Ductless System Indoor Units Overview



| System Capacity<br>kBTU/h (Ton) | Non-Ducted Models |              |                      |           |
|---------------------------------|-------------------|--------------|----------------------|-----------|
|                                 | 4-Way Cassette    | Underceiling | Medium Static Ducted | High Wall |
| 12,000 (1)                      |                   |              | •                    | •         |
| 18,000 (1.5)                    | •                 | •            | •                    | •         |
| 24,000 (2)                      | •                 | •            | •                    | •         |
| 30,000 (2.5)                    | •                 | •            | •                    | •         |
| 36,000 (3)                      | •                 | •            | •                    | •         |
| 42,000 (3.5)                    | •                 | •            | •                    |           |
| 48,000 (4)                      | •                 | •            | •                    |           |

# RAV 4-Way Cassette



## RAV-SM\*\*2UTP-UL

- Four louvers that can each be positioned at different angles
- Customized airflow control
- Built-in condensate lift mechanism (Up to 26")

| Model Name  |                               | RAV-         | SM182UTP-UL   | SM242UTP-UL     | SM302UTP-UL      | SM362UTP-UL      | SM422UTP-UL      | SM482UTP-UL       |
|---|-------------------------------|--------------|---|-----------------|------------------|------------------|------------------|-------------------|
| Cooling   | Capacity (*1)                 | kBTU/h       | 18  | 24              | 30               | 36               | 42               | 48                |
|   | SEER2                         |              | 25.5  | 23.7            | 23.7             | 24.3             | 22.6             | 22.4              |
|   | EER2                          |              | 13.5  | 13.0            | 14.0             | 13.4             | 12.0             | 10.6              |
| Heating   | Capacity (*1)                 | kBTU/h       | 20  | 27              | 34               | 40               | 47               | 54                |
|   | HSPF2                         |              | 11.3  | 10.7            | 11.2             | 11.1             | 10.2             | 9.8               |
|   | COP                           |              | 13.9  | 13.2            | 13.8             | 13.3             | 12.0             | 11.0              |
| Electrical Requirements                               | Power Supply                  |              | 208/230V / Single-Phase / 60Hz  |                 |                  |                  |                  |                   |
|   | MCA (*2)                      | A            | 14  | 17              | 30               |                  | 32               |                   |
|   | MOCP (*3)                     | A            | 25  |                 | 40               |                  |                  |                   |
| <b>Indoor Unit</b>                                    |                               |              |   |                 |                  |                  |                  |                   |
| External Dimensions<br>Main Unit (Ceiling Panel) (*4) | Height                        | in           | 10.1 (1.2)  |                 |                  | 12.6 (1.2)       |                  |                   |
|   | Width                         | in           | 33.1 (37.4)   |                 |                  |                  |                  |                   |
|   | Depth                         | in           | 33.1 (37.4)   |                 |                  |                  |                  |                   |
| Total Weight (Ceiling Panel) (*4)                     | lbs                           |              | 56.3 (10.0)   |                 |                  | 65.1 (10.0)      |                  |                   |
| Main Unit   | Standard Air Flow (H / M / L) | cfm          | 670 / 540 / 470   | 730 / 630 / 510 | 1150 / 840 / 630 | 1200 / 850 / 650 | 1250 / 870 / 650 | 1300 / 1080 / 880 |
|   | Motor Output                  | W            | 60  |                 |                  | 130              |                  |                   |
|   | Motor Type                    |              | DC  |                 |                  |                  |                  |                   |
| Connecting Pipe                                       | Gas Side                      | in           | 1/2   | 5/8             |                  |                  |                  |                   |
|   | Liquid Side                   | in           | 1/4   | 3/8             |                  |                  |                  |                   |
|   | Drain Port (Nominal Dia.)     | in           | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1.0) |                 |                  |                  |                  |                   |
| Sound Pressure Level (H / M / L) (*5)                 | dB(A)                         | 38 / 33 / 31 | 41 / 37 / 34  | 43 / 38 / 34    | 45 / 39 / 35     | 46 / 40 / 36     | 48 / 44 / 41     |                   |

(\*1) Rated Conditions

Cooling: Indoor air temperature 80° F Dry Bulb / 67° F Wet Bulb, Outdoor air temperature 95° F Dry Bulb  
 Heating: Indoor air temperature 70° F Dry Bulb, Outdoor air temperature 47° F Dry Bulb / 43° F Wet Bulb

(\*2) Select wire size based on larger value of MCA

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design)

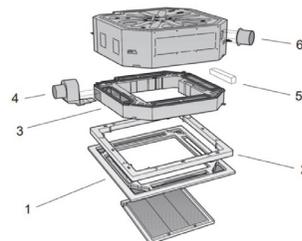
(\*3) MOCP: Maximum Over Current Protection

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length

(\*5) The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise

## Optional Accessories

| No | Type                         | Model Name     |
|----|------------------------------|----------------|
| 1  | Ceiling Panel                | RBC-U32PGP-UL  |
| 2  | Spacer for Height Adjustment | TCB-SP1602UUL  |
| 3  | Fresh-Air Chamber            | TCB-GFC1602UUL |
| 4  | Fresh-Air Inlet Box          | TCB-GB1602UUL  |
| 5  | Air-Discharge Direction Kit  | TCB-BC1602UUL  |
| 6  | Auxiliary Fresh Air Flange   | TCB-FF101URUL  |



# RAV Underceiling



## RAV-SM\*\*2CTP-UL

- Airflow angle is automatically set to the most suitable setting according to cooling or heating needs
- Optional Condensate Drain Kit available
- Automatic swing mode enables airflow to reach all areas of the room to create a comfortable ambiance
- Outside air knockout

| Model Name                            | RAV-                             | SM182CTP-UL  | SM242CTP-UL   | SM302CTP-UL     | SM362CTP-UL     | SM422CTP-UL      | SM482CTP-UL      |                   |
|---------------------------------------|----------------------------------|--------------|---|-----------------|-----------------|------------------|------------------|-------------------|
| Cooling                               | Capacity (*1)                    | kBTU/h       | 18  | 24              | 30              | 36               | 42               | 48                |
|                                       | SEER2                            |              | 23.6  | 23.2            | 22.0            | 22.4             | 19.6             | 19.4              |
|                                       | EER2                             |              | 11.5  | 12.7            | 13.0            | 12.1             | 9.9              | 9.2               |
| Heating                               | Capacity (*1)                    | kBTU/h       | 20  | 27              | 34              | 40               | 47               | 54                |
|                                       | HSPF2                            |              | 10.7  | 10.4            | 10.4            | 11.1             | 10.7             | 10.3              |
|                                       | COP                              |              | 13.1  | 12.9            | 12.2            | 12.5             | 11.5             | 11.1              |
| Electrical Requirements               | Power Supply                     |              | 208/230V / Single-Phase / 60Hz  |                 |                 |                  |                  |                   |
|                                       | MCA (*2)                         | A            | 14  | 17              | 30              |                  | 32               |                   |
|                                       | MOCP (*3)                        | A            | 25  |                 | 40              |                  |                  |                   |
| <b>Indoor Unit</b>                    |                                  |              |   |                 |                 |                  |                  |                   |
| External Dimensions<br>Main Unit      | Height                           | in           | 9.3   |                 |                 |                  |                  |                   |
|                                       | Width                            | in           | 37.5  | 50.0            |                 |                  | 62.5             |                   |
|                                       | Depth                            | in           | 27.2  |                 |                 |                  |                  |                   |
| Total Weight (*4)                     | lbs                              | 52.9         | 66.1  |                 |                 | 83.8             |                  |                   |
| Main Unit                             | Standard Air Flow<br>(H / M / L) | cfm          | 565 / 425 / 320   | 845 / 600 / 440 | 845 / 600 / 440 | 1095 / 795 / 600 | 1095 / 900 / 705 | 1250 / 1125 / 925 |
|                                       | Motor Output                     | W            | 94  |                 |                 |                  | 139              |                   |
|                                       | Motor Type                       |              | DC  |                 |                 |                  |                  |                   |
| Connecting Pipe                       | Gas Side                         | in           | 1/2   | 5/8             |                 |                  |                  |                   |
|                                       | Liquid Side                      | in           | 1/4   | 3/8             |                 |                  |                  |                   |
|                                       | Drain Port (Nominal Dia.)        | in           | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1.0) |                 |                 |                  |                  |                   |
| Sound Pressure Level (H / M / L) (*5) | dB(A)                            | 37 / 35 / 28 | 41 / 36 / 29  | 43 / 36 / 33    | 44 / 38 / 32    | 44 / 41 / 35     | 47 / 45 / 41     |                   |

(\*1) Rated Conditions

Cooling: Indoor air temperature 80° F Dry Bulb / 67° F Wet Bulb, Outdoor air temperature 95° F Dry Bulb

Heating: Indoor air temperature 70° F Dry Bulb, Outdoor air temperature 47° F Dry Bulb / 43° F Wet Bulb

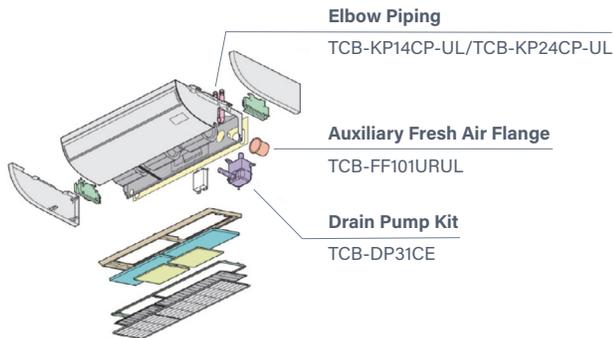
(\*2) Select wire size based on larger value of MCA

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design)

(\*3) MOCP: Maximum Over Current Protection

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length

(\*5) The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise



# RAV Medium Static Ducted



## RAV-SM\*\*2BTP-UL

- External static pressure can be raised as high as 0.8 inches WG, so all areas of the room can be reached for even temperature distribution, no matter how complex the layout
- Kit that raises the drain piping up to 24.3 inches from the drain port

| Model Name                            | RAV-                          | SM122BTP-UL  | SM182BTP-UL   | SM242BTP-UL     | SM302BTP-UL     | SM362BTP-UL     | SM422BTP-UL      | SM482BTP-UL      |                   |
|---------------------------------------|-------------------------------|--------------|---|-----------------|-----------------|-----------------|------------------|------------------|-------------------|
| Cooling                               | Capacity (*1)                 | kBTU/h       | 12  | 18              | 24              | 30              | 36               | 42               | 48                |
|                                       | SEER2                         |              | 17.1  | 14.5            | 19.4            | 19.3            | 17.6             | 16.9             | 16.2              |
|                                       | EER2                          |              | 12.2  | 9.8             | 12.4            | 12.5            | 11.0             | 9.5              | 8.5               |
| Heating                               | Capacity (*1)                 | kBTU/h       | 14  | 20              | 27              | 34              | 40               | 47               | 54                |
|                                       | HSPF2                         |              | 8.9   | 8.7             | 10.3            | 10.3            | 9.9              | 9.0              | 7.9               |
|                                       | COP                           |              | 13.3  | 11.4            | 13.4            | 14.1            | 13.1             | 12.2             | 11.3              |
| Electrical Requirements               | Power Supply                  |              | 208/230V / Single-Phase / 60Hz                                      |                 |                 |                 |                  |                  |                   |
|                                       | MCA (*2)                      | A            | 14  |                 | 17              |                 | 30               |                  | 32                |
|                                       | MOCP (*3)                     | A            | 25  |                 |                 |                 | 40               |                  |                   |
| <b>Indoor Unit</b>                    |                               |              |   |                 |                 |                 |                  |                  |                   |
| External Dimensions Main Unit         | Height                        | in           | 10.9  |                 |                 |                 |                  |                  |                   |
|                                       | Width                         | in           | 27.6  |                 | 39.4            |                 | 55.2             |                  |                   |
|                                       | Depth                         | in           | 29.6  |                 |                 |                 |                  |                  |                   |
| Total Weight (*4)                     | lbs                           | 52.9         |   | 70.5            |                 | 92.6            |                  |                  |                   |
| Main Unit                             | Standard Air Flow (H / M / L) | cfm          | 395 / 330 / 265   | 540 / 390 / 315 | 775 / 640 / 510 | 990 / 780 / 650 | 1130 / 920 / 790 | 1130 / 955 / 810 | 1175 / 1025 / 885 |
|                                       | Motor Output                  | W            | 150   |                 |                 | 250             |                  |                  |                   |
|                                       | Motor Type                    |              | DC  |                 |                 |                 |                  |                  |                   |
| Connecting Pipe                       | Gas Side                      | in           | 1/2   |                 | 5/8             |                 |                  |                  |                   |
|                                       | Liquid Side                   | in           | 1/4   |                 | 3/8             |                 |                  |                  |                   |
|                                       | Drain Port (Nominal Dia.)     | in           | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) |                 |                 |                 |                  |                  |                   |
| Sound Pressure Level (H / M / L) (*5) | dB(A)                         | 33 / 29 / 25 | 34 / 30 / 26  | 36 / 31 / 27    | 37 / 34 / 31    | 38 / 35 / 32    | 38 / 35 / 32     | 40 / 36 / 33     |                   |

(\*1) Rated Conditions

Cooling: Indoor air temperature 80° F Dry Bulb / 67° F Wet Bulb, Outdoor air temperature 95° F Dry Bulb

Heating: Indoor air temperature 70° F Dry Bulb, Outdoor air temperature 47° F Dry Bulb / 43° F Wet Bulb

(\*2) Select wire size based on larger value of MCA

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design)

(\*3) MOCP: Maximum Over Current Protection

(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length

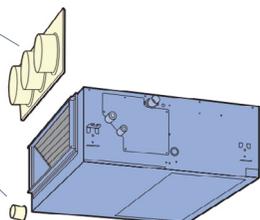
(\*5) The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise

### Zoning Duct Flange

- TCB-SF56C6BP-UL
- TCB-SF80C6BP-UL
- TCB-SF160C6BP-UL

### Auxiliary Fresh Air Flange

- TCB-FF151US-E



### Wireless Remote Controller

- TCB-AX32-UL



# RAV High Wall



## RAV-SM\*\*2KRTP-UL

- Auto-swing louver provides uniform air distribution and enhanced comfort control
- Optional Condensate Drain Kit available
- Aesthetically pleasing and blends with any room's interior decor while efficiently heating and cooling the space

| Model Name                            |                                     | RAV-   | SM122KRTP-UL  | SM182KRTP-UL    | SM242KRTP-UL    | SM302KRTP-UL    | SM362KRTP-UL    |
|---------------------------------------|-------------------------------------|--------|---|-----------------|-----------------|-----------------|-----------------|
| Cooling                               | Capacity (*1)                       | kBTU/h | 12  | 18              | 24              | 30              | 36              |
|                                       | SEER2                               |        | 25.2  | 23.8            | 22.7            | 23.6            | 22.0            |
|                                       | EER2                                |        | 15.7  | 12.0            | 11.8            | 13.1            | 10.5            |
| Heating                               | Capacity (*1)                       | kBTU/h | 14  | 20              | 27              | 34              | 40              |
|                                       | HSPF2                               |        | 11.1  | 10.3            | 10.3            | 9.5             | 8.9             |
|                                       | COP                                 |        | 13.0  | 11.4            | 10.6            | 12.0            | 10.7            |
| Electrical Requirements               | Power Supply                        |        | 208/230V / Single-Phase / 60Hz  |                 |                 |                 |                 |
|                                       | MCA (*2)                            | A      | 14  |                 | 17              | 30              |                 |
|                                       | MOCP (*3)                           | A      | 25  |                 |                 | 40              |                 |
| <b>Indoor Unit</b>                    |                                     |        |   |                 |                 |                 |                 |
| External Dimensions<br>Main Unit      | Height                              | in     | 12.6  |                 |                 | 13.7            |                 |
|                                       | Width                               | in     | 41.4  |                 |                 | 47.2            |                 |
|                                       | Depth                               | in     | 9.9   |                 |                 | 11.0            |                 |
| Total Weight (*4)                     |                                     | lbs    | 33.1  |                 |                 | 44.1            |                 |
| Main Unit                             | Standard Rated Air Flow (H / M / L) | cfm    | 475 / 355 / 250   | 530 / 425 / 325 | 705 / 530 / 355 | 940 / 825 / 705 | 970 / 910 / 735 |
|                                       | Motor Output                        | W      | 30  |                 |                 | 61              |                 |
|                                       | Motor Type                          |        | DC  |                 |                 |                 |                 |
| Connecting Pipe                       | Gas Side                            | in     | 1/2   |                 | 5/8             |                 |                 |
|                                       | Liquid Side                         | in     | 1/4   |                 | 3/8             |                 |                 |
|                                       | Drain Port (Nominal Dia.)           | in     | VP16 (Polyvinyl Chloride Tube: External Dia. 0.87 Internal Dia. 0.63) |                 |                 |                 |                 |
| Sound Pressure Level (H / M / L) (*5) |                                     | dB(A)  | 37 / 33 / 28  | 41 / 37 / 32    | 46 / 41 / 35    | 48 / 45 / 41    | 50 / 47 / 43    |

(\*1) Rated Conditions

Cooling: Indoor air temperature 80° F Dry Bulb / 67° F Wet Bulb, Outdoor air temperature 95° F Dry Bulb

Heating: Indoor air temperature 70° F Dry Bulb, Outdoor air temperature 47° F Dry Bulb / 43° F Wet Bulb

(\*2) Select wire size based on larger value of MCA

MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design)

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(\*4) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length

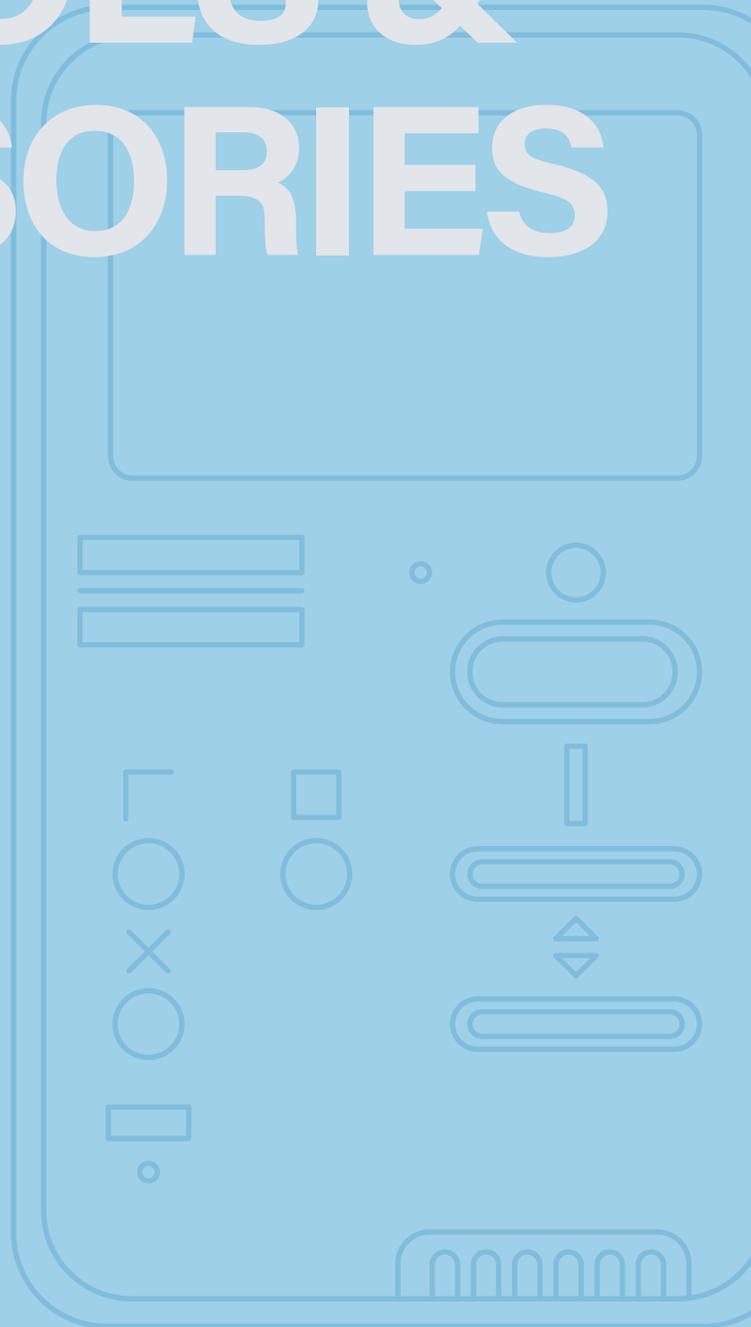
(\*5) The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise

## Optional Accessories



Wireless Remote Controller

# CONTROLS & ACCESSORIES



# Controls



## RBC-AWSU52-UL

Wired Zone Controller

The Wired Remote Controller (programmable) is a low voltage thermostat mounted on the wall that maintains room temperature by controlling system operation.

- Backlit
- Fan speed
- Clock setting
- Schedule timer
- Dual set-point
- 1° F temperature indication
- Set temperature range limiting
- Service check mode
- Compatible with Toshiba Carrier RAV and VRF System
- Bluetooth capability®



## BMS-CT2560U-UL

Touchscreen Central Controller

The Touchscreen Central Controller is a wall-mounted, line voltage controller with a touch-screen LCD display panel. This controller allows for easy system monitoring and management from one central location.

- Compatible with both e-Series and u-Series VRF systems
- Energy monitoring and reporting features available
- Manages up to 256 indoor units
- List view function allows all indoor units to be displayed on one screen
- Includes advanced operation and master schedule functions
- Thin device profile and separate power supply unit enable easy installation



## RBC-ASCU11-UL

Simple Wired Remote Control

The Simple Wired Remote Control is mounted on the wall, allowing remote sensing of room temperature along with user interface with the system

- Start / Stop
- Temperature setting
- Airflow changing
- Check code display



## TCB-AX32UL

Stand-Alone Receiver

The Stand-Alone Receiver is a combination of a wall- or ceiling-mounted receiver and a handheld wireless remote that allows a user to interface with the unit.

- Includes Wireless Remote Control Kit
- For 4-Way Cassette, Compact 4-Way Cassette, Underceiling, Concealed Ducted, Slim Ducted and Vertical AHU



## RBM-A\*\*\*\*UPVA-UL and TCB-IFDMR01UP-UL

u-Series DX Interface Kit

The Toshiba Carrier VRF DX Interface Kit enables the easy integration of any third-party heat pump air handling unit (AHU) into Toshiba Carrier systems.

- Compatible with all u-Series systems
- Equipped with up to three PMV kits for use in configurations up to 40 tons
- Allows for regulation of supply air (0-10V), return air (RA) and ventilation air (TF) using a single controller

# Controls



## TCB-TC41U-UL

Remote Sensor

The Remote Sensor is mounted on the wall, allowing remote sensing of room temperature without any user interface with the system.

- Power supply from indoor unit
- Prevents overcooling or overheating of the space



## Wireless Remote Control

- Start / Stop
- Changing mode
- Temperature setting
- Airflow changing
- Timer function
- Control by two remote controllers is available
- Two wireless remote controllers can operate one indoor unit
- The indoor unit can then be operated separately from the two different locations
- Check code display



## TCB-1FTHUUG-UL 24V Interface

Thermostat Interface

The 24V Interface allows third-party conventional thermostat to communicate and operate Toshiba Carrier VRF indoor fan coil units.

### Two Methods of Control      Features

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>▪ Inverter control</li> <li>▪ Two-stage cooling / heating</li> </ul> | <ul style="list-style-type: none"> <li>▪ Fan speed control: high, medium and low</li> <li>▪ Operating modes: cooling, heating, fan and off</li> <li>▪ Group control</li> </ul> |
|---|--|



## TCB-SIR41UM-E

Occupancy Sensor (For 1-Way Cassette, 4-Way Cassette and Compact 4-Way Cassette)

This smart sensor system adjusts airflow based on room occupancy for enhanced comfort and energy savings.

- In unoccupied rooms, indoor units automatically switch to standby mode or stop operation to save energy
- In highly populated rooms, indoor units increase airflow to ensure optimum comfort
- Indoor units lower airflow after 30 minutes of inactivity, switch to standby after two hours and automatically resume operation when occupants return

# Controls



## RBC-AX32UW-UL

Integral Receiver (For 4-Way Cassette)

The Integral Receiver is a combination of a mounted receiver on a 4-way cassette indoor unit and handheld wireless remote that allows a user to interface with the unit.

- ON / OFF
- Louver setting
- Timer function
- Error display
- Operating modes: auto, heat, dry, cool, and fan
- Fan modes: auto, high, medium and low
- Now available in white or black color options



## RBC-AX33C-UL

Integral Receiver (For Underceiling)

The Integral Receiver is a combination of a mounted receiver on an underceiling indoor unit and handheld wireless remote that allows a user to interface with the unit.

- ON / OFF
- Louver setting
- Timer function
- Error display
- Operating modes: auto, heat, dry, cool, and fan
- Fan modes: auto, high, medium and low



## BMS-IFBN128U-UL

BACNet® Interface

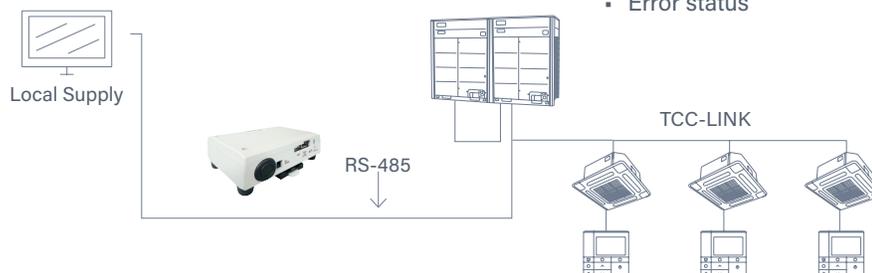
The BACNet Interface is a BACNet controller which enables the communication between the building automation system (BAS) and Toshiba Carrier VRF unit. This allows the customer to control the Toshiba Carrier VRF system from a centralized location. The BACNet system uses object signals to provide the following functions:

### Controller

- ON / OFF
- Operation mode
- Temperature setting
- Fan speed
- Louver
- Permit / prohibit local remote controller

### Monitoring

- ON / OFF
- Operation mode
- Temperature setting
- Fan speed
- Louver
- Room temperature
- Permit / prohibit local remote controller
- Error code
- Error status



# Additional Control Options



## TCB-IFLN642TLUL

LonWorks® LN Interface

The LonWorks Interface manages the system as a Lon device to communicate with the customer's building management system and to monitor operational status. A maximum of 64 units are controllable per interface.

### SNVT Signal

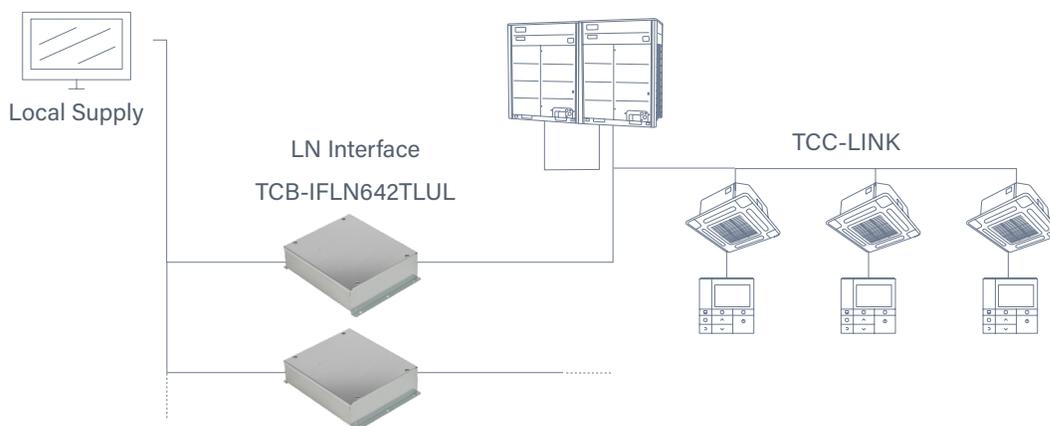
Signals and provides the following functions:

#### Controller

- ON / OFF
- Operation mode
- Temperature setting
- Fan speed
- Louver
- Permit prohibit local remote controller

#### Monitoring

- ON / OFF
- Operation mode
- Temperature setting
- Fan speed
- Louver
- Room temperature
- Permit prohibit local remote controller
- Error code
- Error status



## TCB-IFVN1UL

ERV Control Interface

The ERV Control Interface is used to connect and operate third-party Energy Recovery Ventilation. The third-party ERV ON / OFF and fan speed is controlled using the Toshiba Carrier Wired Controller, which is connected to the Toshiba Carrier VRF system.

- ON / OFF
- Two-step airflow (high or low)
- Scheduling setting
- Ventilation air volume change by external input like CO<sup>2</sup> sensor, motion sensor, etc.
- Individual, group or central control options
- Requires Wired Zone Controller for programing. Model: RBC-AMS54E-UL

LonWorks®: Registered trademark of Echelon corporation. Integration done in field by customer.

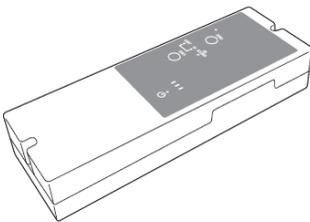
# Tools & Accessories



## VPro Selection Platform

Easily design, lay out and prepare systems for quote with VPro—our convenient online platform for VRF and ductless selection. VPro puts all your project information in one place, so you can:

- Enjoy complete project visibility from preliminary design to order release
- Effortlessly collaborate with internal and external stakeholders
- Improve inventory planning to ensure timely project completion
- Seamlessly translate information to third-party platforms like QuotePro
- Conveniently and securely store project information in the cloud



## TCB-SS1UU-E

Link Adapter

The optional Link Adapter simplifies commissioning and maintenance by allowing you to access operational data directly from the outdoor or indoor unit—without the need for a P.C. This helps you:

- Instantly convert unit communication data (UART or Uv line) into P.C. communication data
- Conveniently store up to 8 GB of data on a built-in in microSDHC™ card
- Easily confirm that the link adapter is receiving signals from the unit using the visual LED display
- Commission and service units by using the link adapter in combination with the unit service tool.



## Wave Tool Advance

The Wave Tool Advance app makes installing and servicing u-Series systems a breeze. Simply tap your smart device to the NFC tag on any outdoor unit to easily access, save and share important system data.

- Test operation to ensure units are working as they should
- View maintenance and check code histories to simplify service and troubleshooting
- Create and share comprehensive reports including photos, videos and audio recordings
- Search stored data based on site name, GPS location and more

## Snow Hood

Ruggedly-designed snow hoods help protect u-Series outdoor units from damaging sleet, snow and ice for dependable operation and an extended equipment lifespans.

### Right and Left Sides:

- TCB-SGMH2802KU-Y
- TCB-SGMH2802KU-B

### Rear Side:

- TCB-SGMH4502KU-B

### Upper Side:

- TCB-SGM2802KU-F

# Additional Control Options



Size: 7.9 × 6.7 × 2.6 (in.)

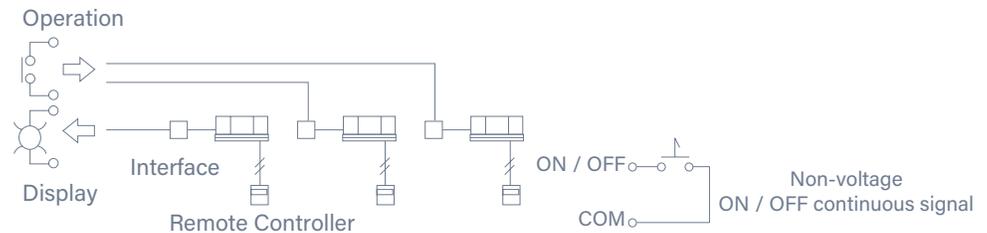
## TCB-IFCB-4UL

Remote Location ON / OFF Control Box

Start and stop of the air conditioner is possible by an external signal and indication of operation / alarm externally

### Monitoring

- ON / OFF status (for indoor unit)
- Alarm status (system and indoor unit stop)
- ON / OFF command
- Air conditioner can be turned ON / OFF by the external signals
- The external ON / OFF signals will initiate the signals shown below



Size: 3.3 × 2.0 (in.)

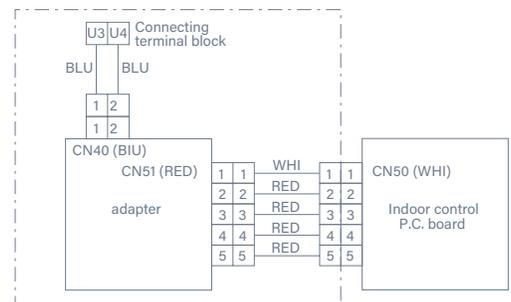
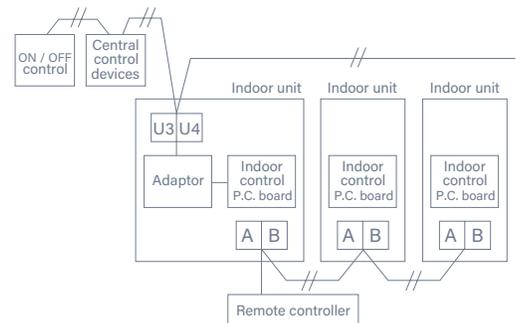
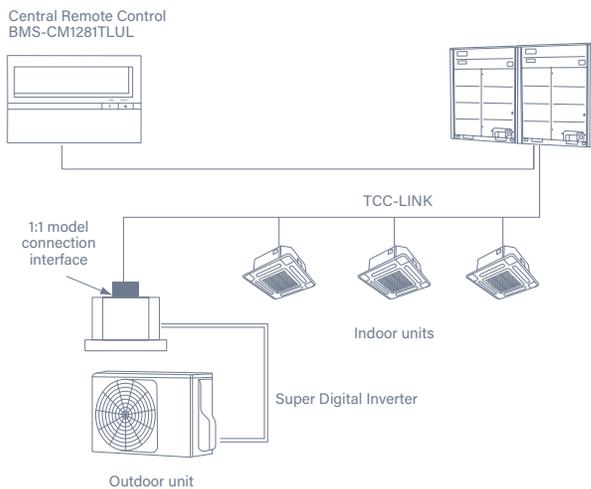
Install optional P.C. board to the P.C. board of the indoor unit

## TCB-PCNT31TLUL

RAV Network Adapter

Link adapter for "1:1 model" to enable connection to VRF system network.

- Super digital inverter
- Used only for light commercial products



# Additional Control Options



Size: 2.8 × 3.3 (in.)

## TCB-PCDM4UL

Power Peak-Cut Control

### Feature

The upper limit capacity of the outdoor unit is restricted based on the outdoor power peak selected setting

### Function

Two control settings are selectable by setting SW07 on the interface P.C. board of the header outdoor unit



Size: 2.2 × 2.4 (in.)

## TCB-PCMO4UL

### External Master ON / OFF Control

The outdoor unit can control start or stop to receive the external signal

### Operation Mode Selection Control

This control can restrict the selectable operation mode

### Night Operation Control

Sound level can be reduced by restricting the compressor and fan speeds

### Snowfall Fan Control

The outdoor fan will operate to prevent snow buildup



Size: 2.9 × 3.1 (in.)

## TCB-PCIN4UL

### Error / Operation Output Control

Enables external output of error and operation signals

### Compressor Operation Output

Enables external signal output for each compressor that is in operation within any given outdoor unit—this feature provides a practical method for calculating total operating times for each compressor

### Operating Rate Output

External output of system operating rates enables remote monitoring of operating conditions

**TOSHIBA**  
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**Toshiba Carrier**  
**VRF u-Series Systems**

[carriervrf.com](http://carriervrf.com)

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05/2024 | 01-VRF-011-TC-01

