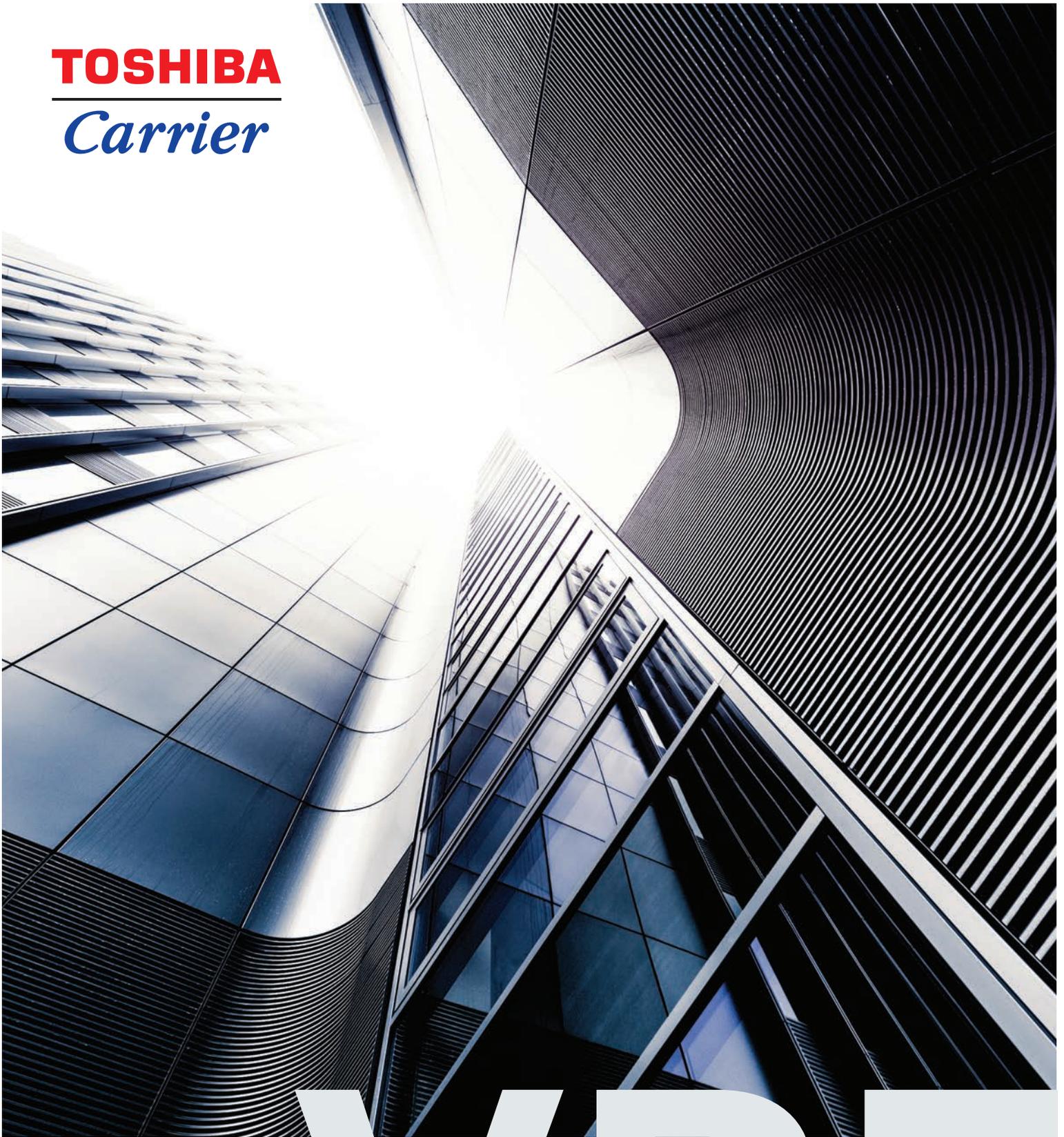


TOSHIBA
Carrier



Toshiba Carrier
VRF Catalog

2021 Edition | North America

VRF

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 Variable Refrigerant Flow (VRF) 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.

Engineered for
North America

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

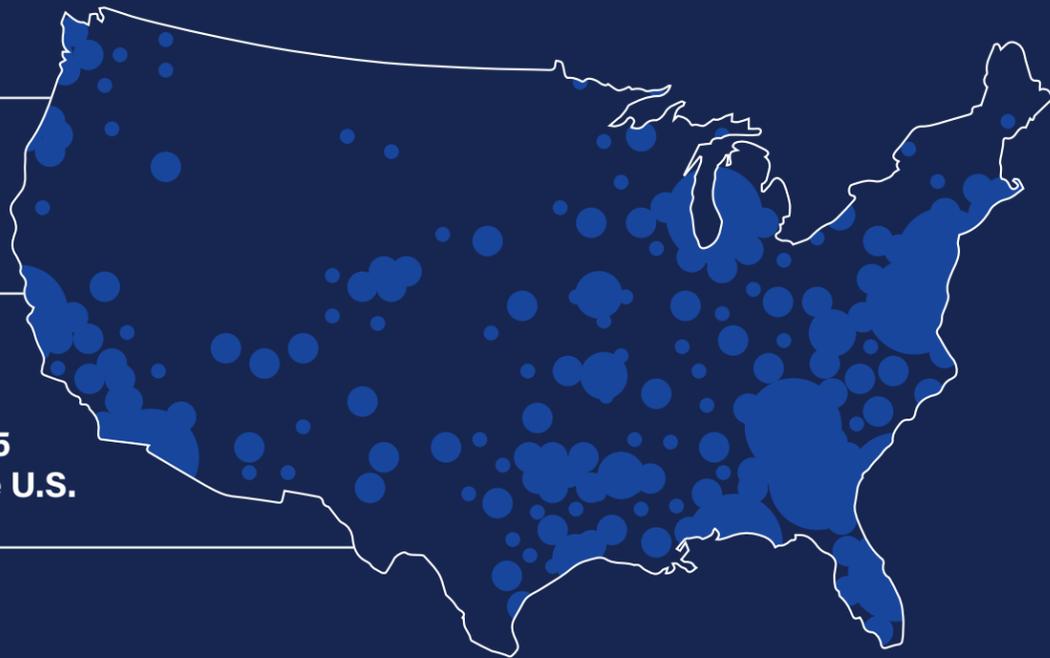


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What Is VRF



A Comfortable Experience...

Variable Refrigerant Flow (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 is not just about sophisticated control. It computes the precise amount of refrigerant required by each indoor unit and controls the refrigerant flow accordingly. This avoids over cooling or heating—and adds major operational efficiency.



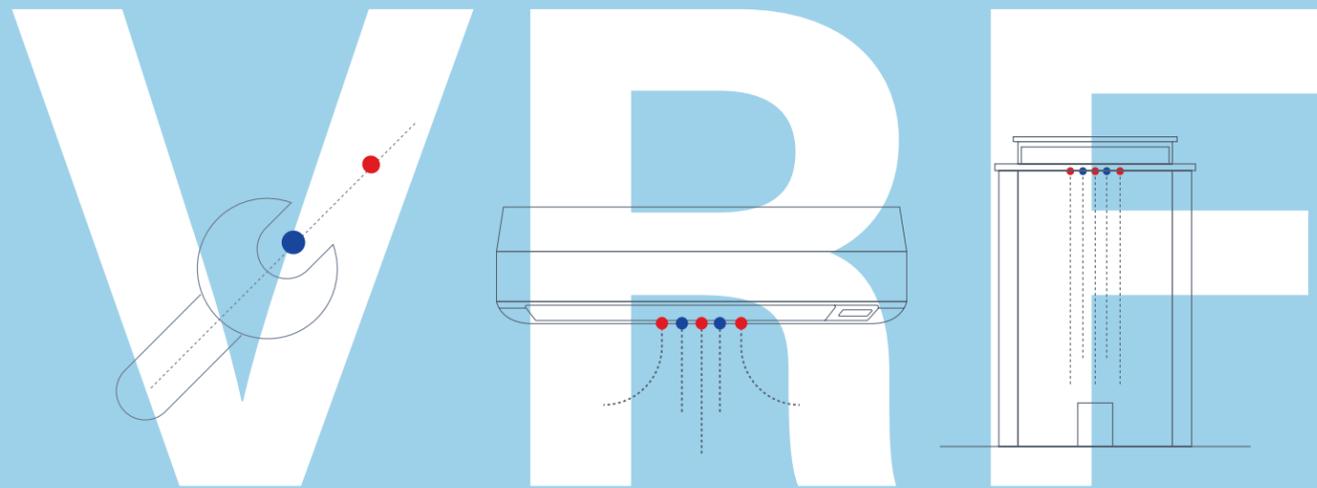
Why VRF



It's Hard to Object to the Flexibility of VRF

Whether you're looking to maximize comfort in a new building or retrofit an existing one, VRF systems join design flexibility with space and potential energy savings—but the only thing occupants notice is the comfort.

It pays to choose wisely—and choose the efficiency of VRF. According to the U.S. Department of Energy (DOE), heating, cooling and ventilation account for 40% of energy costs in the average commercial building.¹



Sustainability and Efficiency

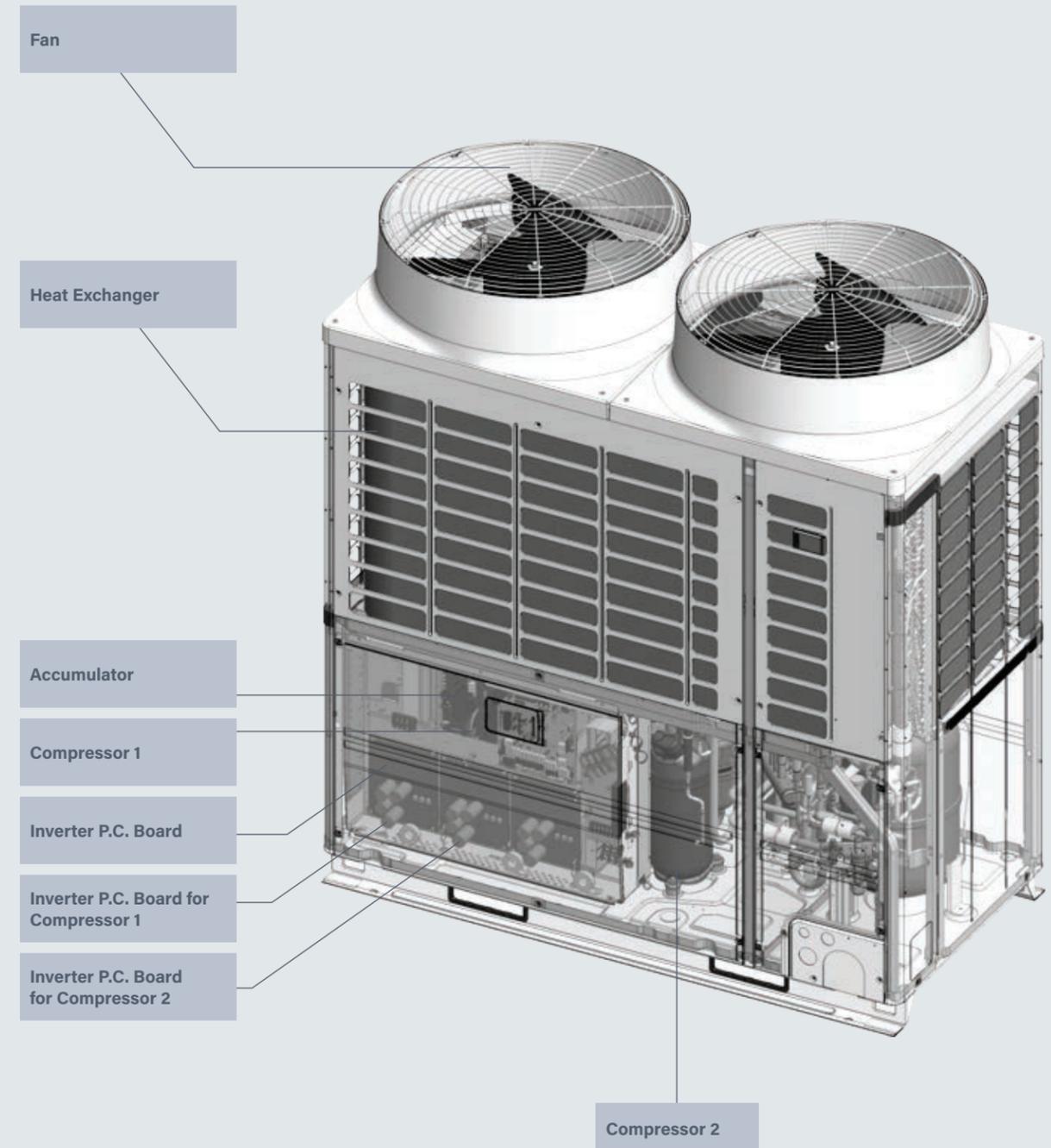
- Enjoy simplified maintenance and efficient operation
- Gain energy savings that contribute to Leadership in Energy and Environmental Design (LEED) certification

Ease of Design

- Connect up to 64 indoor units to one outdoor module
- Maximize limited ceiling space and eliminate need for maintenance rooms and service shafts
- Precisely match building capacity or power requirements

Performance

- Zoned temperature control for ideal comfort
- Simultaneous heating and cooling with heat recovery systems
- Optimum part-load performance



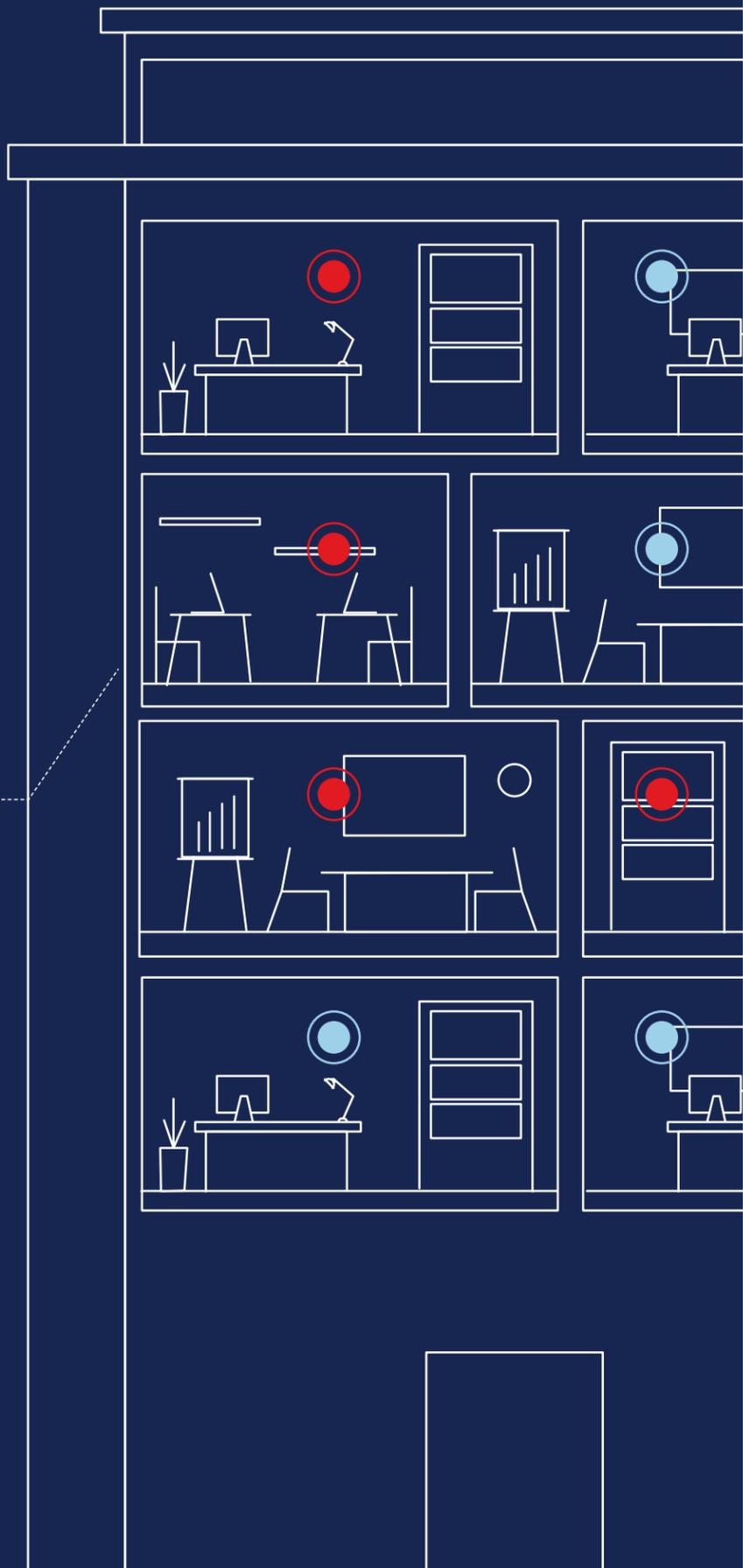
¹https://www.pnnl.gov/main/publications/external/technical_reports/PNNL-20955.pdf

To Heat or to Cool? Or Both?

Perfect for large open spaces, **VRF heat pumps** provide either heating or cooling at a given time. And for buildings with varying temperature zones, **VRF heat recovery systems** can heat and cool different zones at the same time. The heat recovery system reuses energy from one zone, like a sunlit lobby, in a cooler part of the building.

38 Tons

Toshiba Carrier VRF systems now offer heat recovery up to 38 tons—meaning serious cooling power for your next project.



Toshiba Carrier 3-Pipe VRF Heat Recovery

Since heat recovery provides simultaneous heating and cooling of different building zones on a single refrigerant piping system, it's ideal for highly zoned areas, areas that require multiple thermal zones or spaces that naturally include high zone diversity. The system also works well for retrofit needs, since it doesn't require ducting. It also offers design flexibility by allocating one flow selector box for each indoor unit.

Your choice of Toshiba Carrier VRF heat recovery will depend on a range of factors specific to your project, including local climate, specific building needs and project type (remodel, retrofit or new construction). The system can be an ideal fit for a variety of verticals, including, but not limited to, hotels, assisted living and office spaces.



Heat Recovery

Toshiba Carrier VRF Heat Pump

VRF heat pumps are ideal for large, open spaces with single common zones, since all indoor units will share the same load. It can also accommodate spaces with limited roof support or unique structural needs when paired with the Toshiba Carrier 40QQ-E rooftop outdoor unit.

The system is an ideal fit for restaurants, retail, places of worship, storage facilities, parking garages—and more. Your choice of Toshiba Carrier VRF heat pump systems still depend on factors specific to your project, including local climate, specific building needs and project type (remodel, retrofit, or new construction).



Heat Pump



Why Toshiba Carrier VRF



VRF Comfort. Built on **Toshiba** Carrier Confidence.

More Than Just Components. A Total System Solution.

Your choice of VRF system makes a difference. We're invested in advancements that help your VRF system serve the design needs and function of a space—not the other way around. Case in point: we were the first in the industry to offer single-phase VRF heat recovery.

But our commitment extends well beyond setup. When you invest in Toshiba Carrier VRF, you create a system that delivers on the promise of comfort, time after time. Because performance and reliability are the backbone of Toshiba Carrier confidence.

Toshiba Carrier VRF
expects the unexpected
—and doesn't waste
energy on it.



DX Interface

Choose a Compatible Outlook

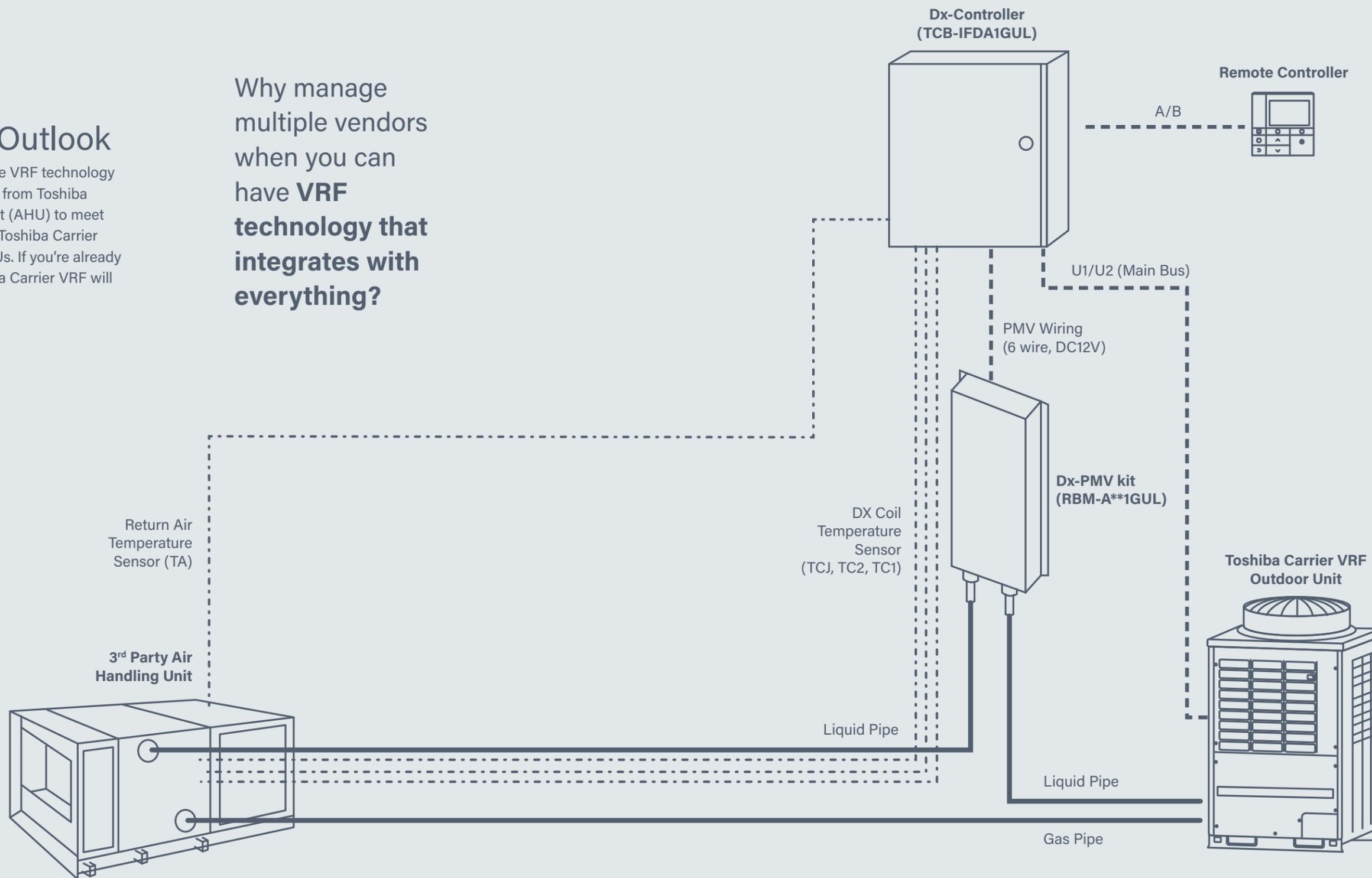
Why manage multiple vendors when you can have VRF technology that integrates with everything? The DX Interface from Toshiba Carrier allows integration with an air handling unit (AHU) to meet ventilation requirements. Using the DX Interface, Toshiba Carrier VRF integrates with Carrier's market-leading AHUs. If you're already using an AHU from another manufacturer, Toshiba Carrier VRF will integrate with those, too.

Why manage multiple vendors when you can have **VRF technology that integrates with everything?**

Refrigerant Piping

Control Wiring (Field Installed)

Temperature Sensor Wiring

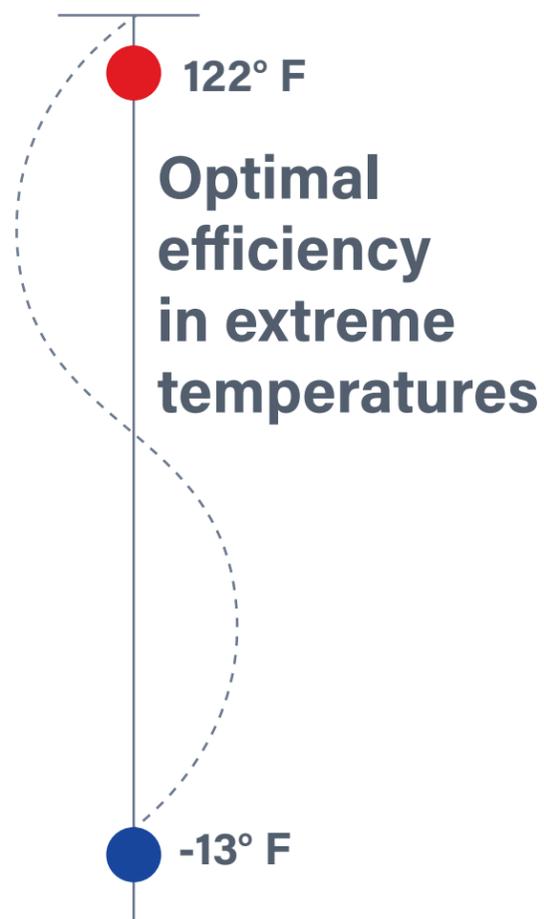


for
it
B
B

Extreme Temperature Performance

Toshiba Carrier VRF delivers heating down to -13° F and cooling up to 122° F in cooling mode. And there are no “hard shutoffs” when operating outside these temperatures or based on outdoor temperatures.

The system also features dual rotary compressors, which function well in harsh environments, in addition to delivering optimal efficiency at all speeds (and being easy to maintain).



Sample Application: Place of Worship

Location
Omaha, NE

Background

A historic property built in 1915, this place of worship needed a heating and cooling system that would maintain structural integrity of the building and withstand extreme ambient temperatures.

Challenge

The building structure and location presented several design challenges, including:

- Coping with the existing steam heat with radiators
- No cooling in the building
- Property line and security issues
- Low ambient temperatures (-15° F to -20° F common temperature during cool season)

Solution

Three, 10-ton outdoor condensing units were installed indoors. We also created custom-built wood cabinets for the floor consoles to match the historic church's existing woodwork and fit the footprint of the old radiators.

Results

CO₂ sensors connect to the Toshiba Carrier ERV interface, driving the opening and closing of fresh air dampers in the ductwork based on occupancy to meet ventilation code. When a compressor is running and the outside air temperature is above 50° F, control dampers are driven open and units are vented in the mechanical room. During cold temperatures, outside air intake dampers close and gas unit heaters maintain ambient temperatures in the mechanical room.

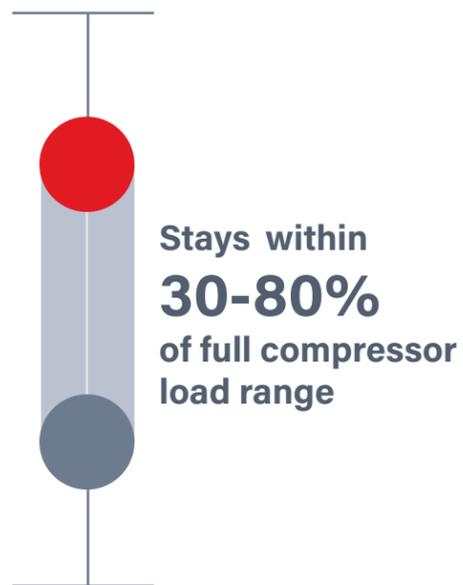


Comfort
for
Unit
Build

Smooth (and Quiet) Operations

Comfort isn't a disruption—so Toshiba Carrier VRF keeps it quiet. Intentionally designed for efficient operations and reduced compressor stress, compressor load stays within 30-80% of full load range. That means the output is as quiet as it is steady and reliable.

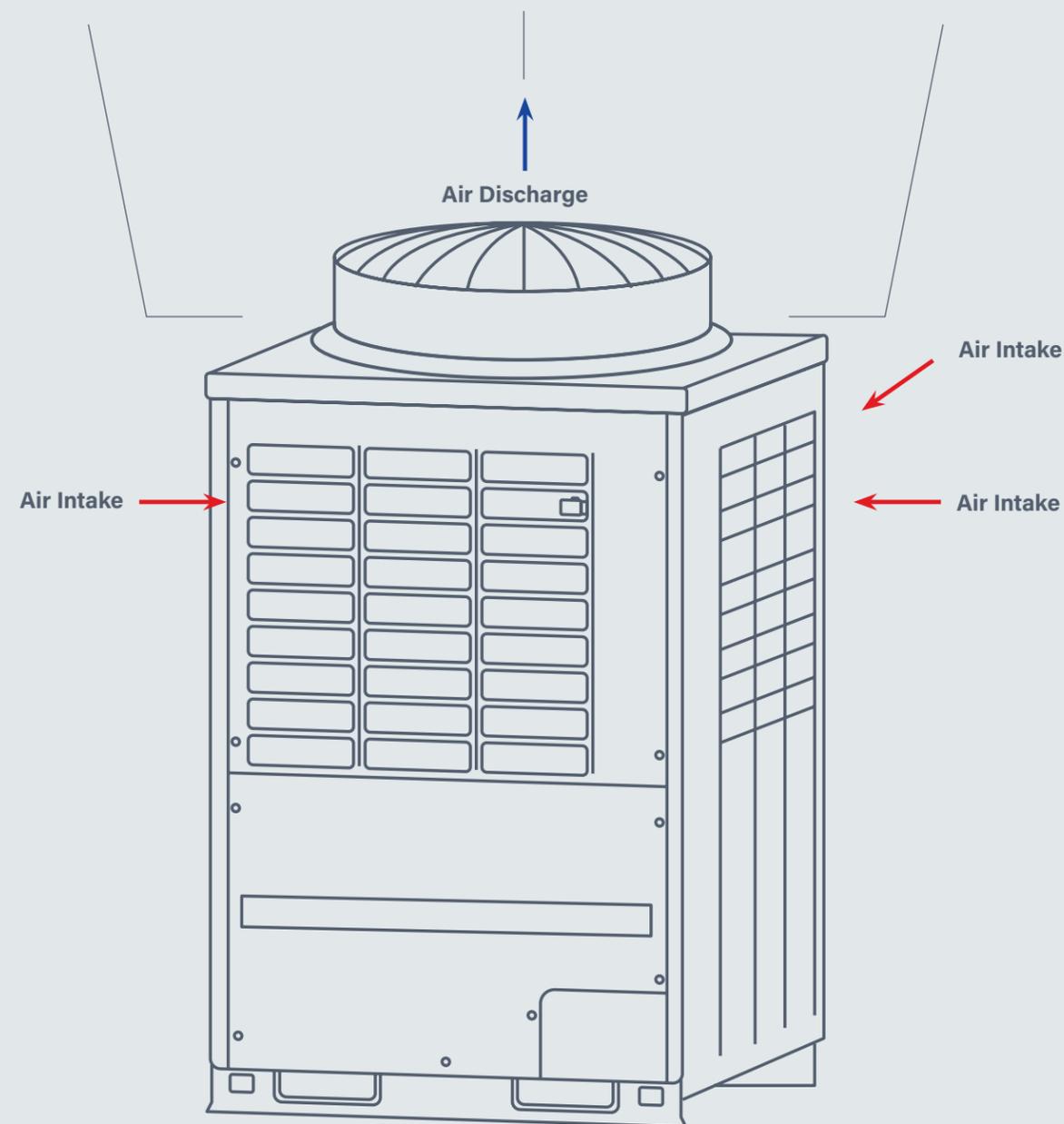
Similarly, the outdoor unit's air discharge propeller fan features a unique profile and shape that minimizes air resistance, maximizes power—and reduces sound.



**Minimized
Air Resistance**

**Reduced
Sound**

**Maximized
Power**



Even Flow

Control each compressor and maintain consistent overall compressor performance. How? The system's operating sequence rotates between compressors in a single outdoor unit or between outdoor units in a modular system for an even spread of operating hours.

Intelligent Refrigerant Flow

Toshiba Carrier VRF uses over 300 sensors and multiple Pulse Motor Valves (PMV) to pinpoint the needed refrigerant flow for each indoor unit, creating increased efficiency at full or partial building loads.

Contingencies Upon Contingencies

From multiple inverter-driven compressors to a three-stage oil monitoring system, Toshiba Carrier VRF systems flag, and correct for, potential disruptions long before they delay anyone's comfort.

The system's design flexibility helps you anticipate structural limitations, confined spacing and industry regulations with sustainable, efficient solutions for heating and cooling.

Taking Rooftop Units to a New Level

The 40QQ-E Rooftop Unit

The Toshiba Carrier VRF 40QQ-E rooftop unit is the first rooftop product line designed using VRF technology. The 40QQ-E features EcoBlue™ technology, which includes a more compact vane axial fan and a simplified design for better performance. And, options like electric heat with single-point power connection, horizontal or vertical discharge, economizer and use of existing curb can help you complete a replacement job faster and more cost-effectively with less downtime.

Other 40QQ-E benefits include:

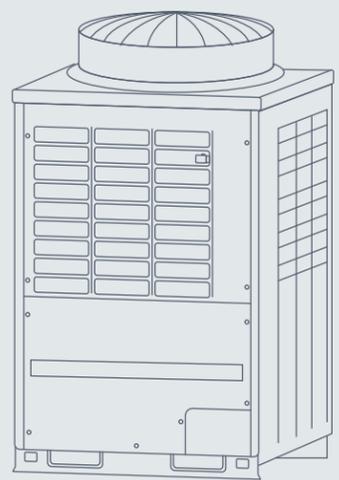
- Provides outside air circulation without the full weight of a traditional rooftop unit
- Curb-compatible rooftop unit
- Economizer provides Title 24 compliant outside air circulation
- Provides flexibility for expansion, if needed

ecoblue™ technology

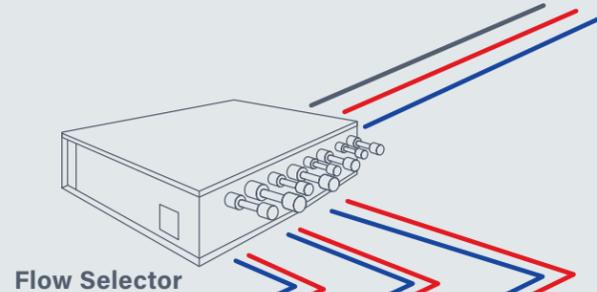


Engineer Flexibility and Visibility Into Your Basis of Design

As you design, you need flexibility—so our system offers up to 131 feet between indoor units, as well as longer piping distance between indoor and outdoor units. And connect up to 64 indoor units to the outdoor unit to satisfy your specific zoning needs.



Outdoor Unit

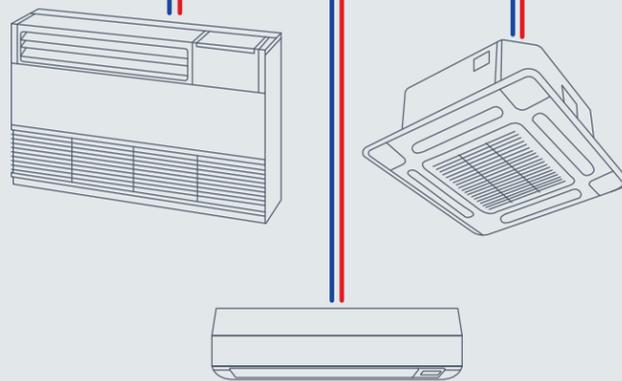


Flow Selector

Up to **131 feet** between flow selector and indoor units

Long piping

Up to **64 indoor units**



Indoor Units

VRoom

Once you've chosen Toshiba Carrier VRF, easily design, layout and prepare VRF systems for quote with our advanced software, VRoom. It's a selection tool designed for engineers with built-in error checking and system 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 from day one.

And that's just the start of how VRoom helps you get going:

- Drag and drop feature for easy selection of indoor units
- Quick edits of indoor unit type, piping length and operating conditions using Excel feature
- Automatic software updates

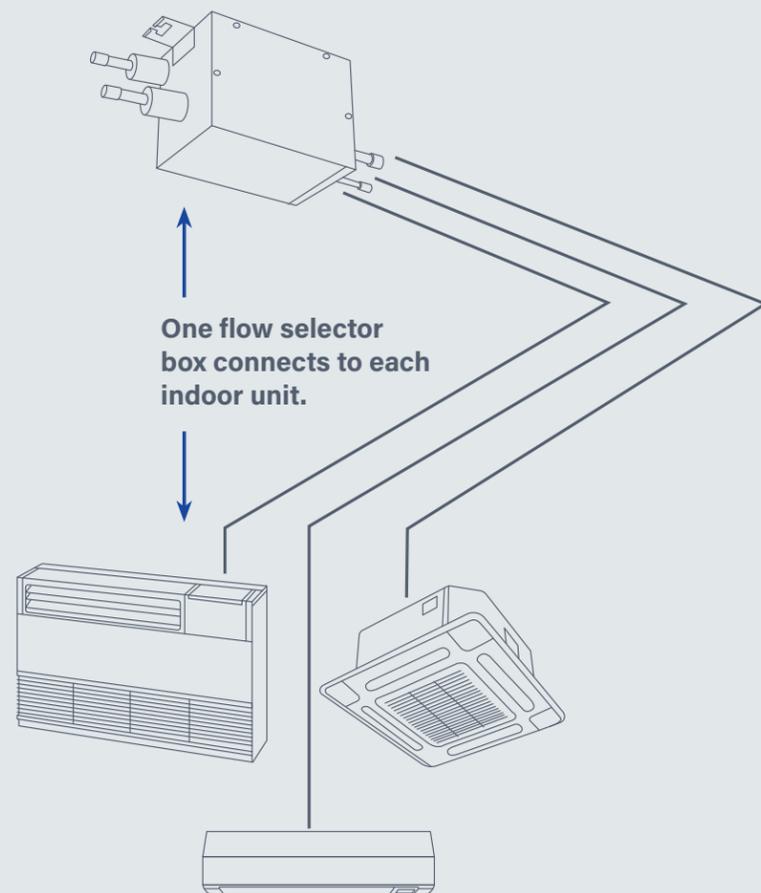
Contact VRoomhelp@carrier.com for assistance and support.

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.

The system itself is intentionally designed to make installation simpler. For example, Toshiba Carrier VRF heat recovery systems offer both single "one to one" 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 the build out of a complete VRF system—with everything from specs to start-up to commissioning.



VRF 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 onsite during normal business hours to assess, and anticipate any issues with, your VRF installation.

At a minimum, the technician will do the following:

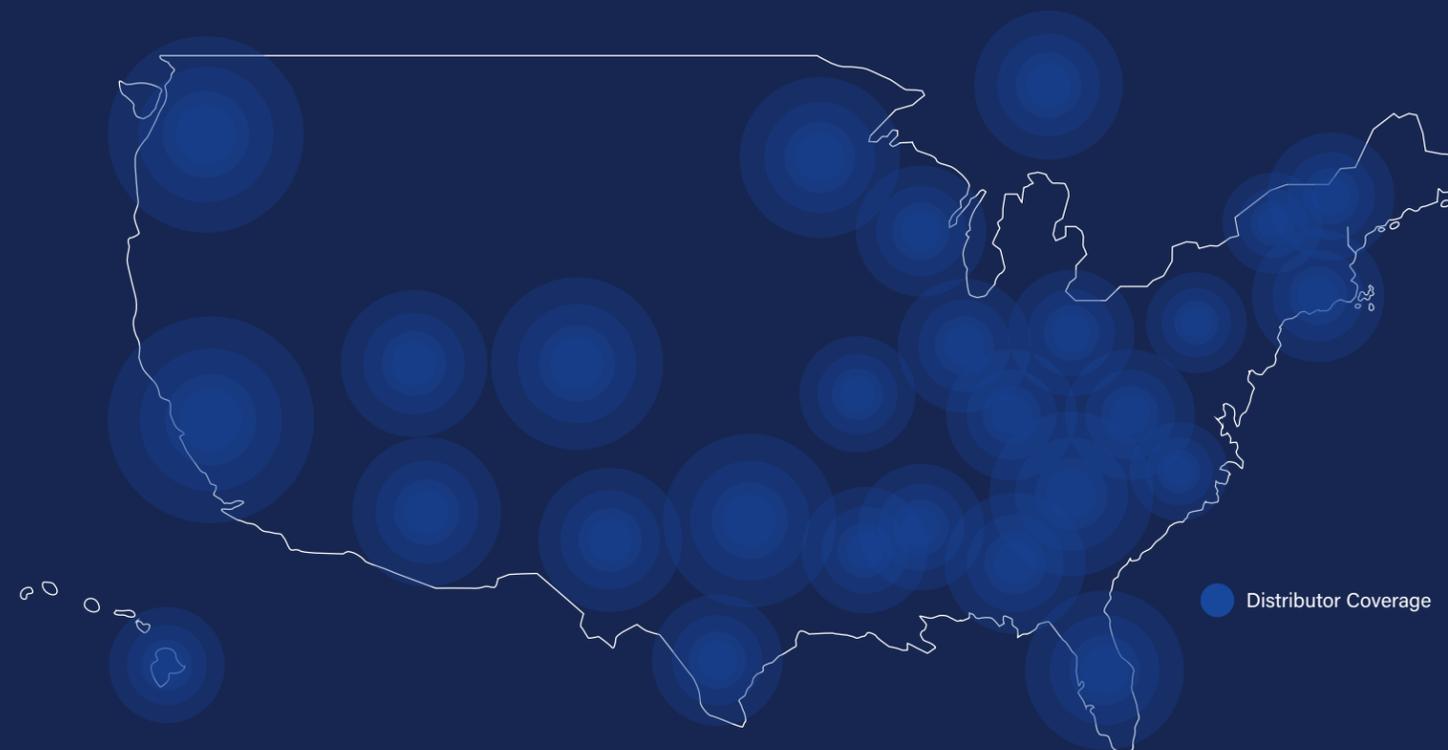
- Reference engineering and installation manuals to identify and document installation issues that may impact the startup
- Utilize service software to communicate with the VRF system and collect real runtime data for a fixed period of time to insure optimum operation at the time of commissioning
- Verify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

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

Please contact vrfstartup@carrier.com for factory startup assistance.

Your VRF 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 high product knowledge with high levels of training so you can make confident choices when it comes to Toshiba Carrier VRF.



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?**



VRF



Outdoor Units

Whether you're building a heat recovery or heat pump system, **Toshiba Carrier VRF outdoor units are quiet, reliable, and flexible. And up to 64 indoor units can connect to just one outdoor module.**

VRF Outdoor Units Overview



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

*For use with Flow Selector "FS" box and multiport FS box on page 82.

**Space Saving model.

Single-Phase Heat Recovery Outdoor Unit (MMYF) 208/230V-1-60



| Standard Model (Combination) | | | | | | |
|---|----------------------------------|---------------------------------|-------------------------|---------------------------------|-------------------------|--|
| Outdoor Unit Model Name (MMY) | | MAP0726FT2P-UL | | AP1446FT2P-UL | | |
| Nominal Tons | | 6 | | 12 | | |
| Combination Model (MMY) | | - | | MAP0726FT2P-UL | | |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | | Nominal | kBtu/h | 72 | 144 | |
| | | Rated | kBtu/h | 69 | 138 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | | Nominal | kBtu/h | 81 | 162 | |
| | | Rated | kBtu/h | 77 | 154 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 1-Phase, 60Hz | | 208/230V, 1-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 4.53 | 9.92 | |
| | | IEER ⁴ | Btu/W*hr | 26.6 | 25.7 | |
| | Heating | Power Consumption ³ | kW | 5.98 | 11.69 | |
| SCHE ⁵ | | Btu/W*hr | 30.6 | 31.3 | | |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 1-Phase, 60Hz | | 208/230V, 1-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 5.11 | 10.10 | |
| | | IEER ⁴ | Btu/W*hr | 19.5 | 20.0 | |
| | Heating | Power Consumption ³ | kW | 6.25 | 11.82 | |
| SCHE ⁵ | | Btu/W*hr | 26.9 | 26.6 | | |
| External Dimensions | | Height | in | 72.9 | 72.9 | |
| | | Width | in | 39.0 | 39.0 x 2 | |
| | | Depth | in | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 600 | 600 | 600 x 2 | |
| Compressor | Type | Hermetic Twin Rotary Compressor | | Hermetic Twin Rotary Compressor | | |
| | Motor Output | kW | 2.1 x 2 | 2.1 x 4 | | |
| Fan Unit | Motor Output | kW | 1.0 | 1.0 x 2 | | |
| | Air Volume | cfm | 5,900 | 5,900 x 2 | | |
| | Maximum External Static Pressure | in WG | 0.24 | 0.24 | | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | 24.3 | 24.3 x 2 | | | |
| Electrical Specifications | Unit | MCA ⁷ | A | 47 | 47 + 47 | |
| | | Recommended Fuse Size | A | 50 | 50 + 50 | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 7/8 | 1-1/8 | |
| | | Liquid Side (Main Pipe) (Flare) | in | 1/2 | 5/8 | |
| | | Discharge (Main Pipe) (Flare) | in | 3/4 | 7/8 | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | | |
| | Heating | ° F WB | -13-60 | -13-60 | | |
| Maximum Number of Connected Indoor Units | | 12 | | 25 | | |
| Maximum Capacity of Combined Indoor Units ⁸ | | 50-150% | | 50-150% | | |
| Sound Pressure Level Cooling / Heating | | dB(A) | | 57/60 | | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.
²The source voltage must not fluctuate more than ±10%.
³Only for outdoor unit.
⁴IEER: Integrated Energy Efficiency Ratio.
⁵SCHE: Simultaneous Cooling & Heating Efficiency.
⁶The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
⁷Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
⁸In 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

Heat Recovery Outdoor Unit (MMYF) 208/230V-3-60



| Standard Model (Single Unit) | | | | | | | | | | | |
|---|----------------------------------|---------------------------------|-------------------------|---------------------------------|-------------------------|---------------------------------|-------------------------|---------------------------------|-------------------------|----------------|--|
| Outdoor Unit Model Name (MMY) | | MAP0726FT9P-UL | | MAP0966FT9P-UL | | MAP1206FT9P-UL | | MAP1446FT9P-UL | | MAP1686FT9P-UL | |
| Nominal Tons | | 6 | | 8 | | 10 | | 12 | | 14 | |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 72 | 96 | 120 | 144 | 168 | | | | |
| | Rated | kBtu/h | 69 | 92 | 114 | 138 | 160 | | | | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 81 | 108 | 135 | 162 | 189 | | | | |
| | Rated | kBtu/h | 77 | 103 | 129 | 154 | 180 | | | | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | | |
| | Cooling | Power Consumption ³ | kW | 4.53 | 7.16 | 9.39 | 11.03 | 14.55 | | | |
| | | IEER ⁴ | Btu/W*hr | 26.6 | 28.3 | 27.5 | 25.9 | 23.3 | | | |
| | Heating | Power Consumption ³ | kW | 5.98 | 7.66 | 10.21 | 11.76 | 15.05 | | | |
| SCHE ⁵ | | Btu/W*hr | 30.6 | 31.3 | 34.9 | 33.6 | 30.2 | | | | |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | | |
| | Cooling | Power Consumption ³ | kW | 5.11 | 7.34 | 9.05 | 11.29 | 14.48 | | | |
| | | IEER ⁴ | Btu/W*hr | 19.5 | 21.4 | 20.0 | 20.2 | 19.2 | | | |
| | Heating | Power Consumption ³ | kW | 6.25 | 7.61 | 10.34 | 12.02 | 15.38 | | | |
| SCHE ⁵ | | Btu/W*hr | 26.9 | 26.7 | 26.7 | 29.9 | 26.9 | | | | |
| External Dimensions | | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | | | | |
| | | Width | in | 39.0 | 47.6 | 47.6 | 63.0 | | | | |
| | | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | | | | |
| Total Weight | Unit | lb | 600 | 721 | 721 | 882 | 882 | | | | |
| Compressor | Type | Hermetic Twin Rotary Compressor | | | |
| | Motor Output | kW | 2.1 x 2 | 3.0 x 2 | 4.0 x 2 | 5.4 x 2 | 6.5 x 2 | | | | |
| Fan Unit | Motor Output | kW | 1.0 | 1.0 | 1.0 | 1.0 x 2 | 1.0 x 2 | | | | |
| | Air Volume | cfm | 5,900 | 7,480 | 7,700 | 10,850 | 10,850 | | | | |
| | Maximum External Static Pressure | in WG | 0.24 | 0.16 | 0.16 | 0.16 | 0.16 | | | | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | 24.3 | 24.3 | 24.3 | 24.3 | 24.3 | | | | | |
| Electrical Specifications | Unit | MCA ⁷ | A | 23.3 | 34.2 | 45.4 | 52.1 | 66.2 | | | |
| | | Recommended Fuse Size | A | 30 | 40 | 50 | 60 | 70 | | | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 7/8 | 7/8 | 1-1/8 | 1-1/8 | 1-1/8 | | | |
| | | Liquid Side (Main Pipe) (Flare) | in | 1/2 | 1/2 | 1/2 | 5/8 | 3/4 | | | |
| | | Discharge (Main Pipe) (Flare) | in | 3/4 | 3/4 | 3/4 | 7/8 | 7/8 | | | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | | | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | | | | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | | | | |
| Maximum Number of Connected Indoor Units | | 12 | | 16 | | 21 | | 25 | | 30 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | 50-150% | | 50-150% | | 50-150% | | 50-150% | | 50-150% | |
| Sound Pressure Level Cooling / Heating | | dB(A) | | 57/60 | | 62/62 | | 63/64 | | 66.5/66.5 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.
²The source voltage must not fluctuate more than ±10%.
³Only for outdoor unit.
⁴IEER: Integrated Energy Efficiency Ratio.
⁵SCHE: Simultaneous Cooling & Heating Efficiency.
⁶The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
⁷Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
⁸In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor units is reduced.



The standard pipe
072 type – 120 type
Equivalent piping length
25 ft, Height difference: 0 ft

Heat Recovery Outdoor Unit (MMYF) 208/230V-3-60



| Standard Model (Combination) | | | | AP1926FT9P-UL | AP2166FT9P-UL | AP2406FT9P-UL | AP2646FT9P-UL | AP2886FT9P-UL | AP3126FT9P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|----------------|
| Outdoor Unit Model Name (MMY) | | | | 16 | 18 | 20 | 22 | 24 | 26 |
| Nominal Tons | | | | 16 | 18 | 20 | 22 | 24 | 26 |
| Combination Model (MMY) | | | | MAP0966FT9P-UL | MAP1206FT9P-UL | MAP1446FT9P-UL | MAP1446FT9P-UL | MAP1446FT9P-UL | MAP1686FT9P-UL |
| | | | | MAP0966FT9P-UL | MAP0966FT9P-UL | MAP0966FT9P-UL | MAP1206FT9P-UL | MAP1446FT9P-UL | MAP1446FT9P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 192 | 216 | 240 | 264 | 288 | 312 | |
| | Rated | kBtu/h | 184 | 206 | 230 | 252 | 276 | 298 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 216 | 243 | 270 | 297 | 324 | 351 | |
| | Rated | kBtu/h | 206 | 232 | 256 | 282 | 308 | 334 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 14.60 | 17.22 | 19.29 | 22.44 | 24.14 | |
| | | IEER ⁴ | Btu/W*hr | 26.1 | 24.2 | 23.3 | 23.1 | 22.8 | |
| | Heating | Power Consumption ³ | kW | 15.91 | 18.63 | 20.30 | 23.76 | 25.50 | |
| | | SCHE ⁵ | Btu/W*hr | 29.5 | 29.0 | 29.0 | 27.7 | 28.1 | |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 14.91 | 17.29 | 19.26 | 22.01 | 23.96 | |
| | | IEER ⁴ | Btu/W*hr | 20.4 | 20.5 | 20.8 | 20.5 | 20.2 | |
| | Heating | Power Consumption ³ | kW | 15.36 | 17.09 | 19.99 | 22.80 | 24.97 | |
| | | SCHE ⁵ | Btu/W*hr | 27.4 | 27.6 | 27.7 | 27.0 | 25.9 | |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | | |
| | Width | in | 47.6 x 2 | 47.6 x 2 | 63.0 + 47.6 | 63.0 + 47.6 | 63.0 x 2 | | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | | |
| Total Weight | Unit | lb | 721 x 2 | 721 x 2 | 882 + 721 | 882 + 721 | 882 x 2 | | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | | |
| | Motor Output | kW | 3.0 x 4 | 4.0 x 2 + 3.0 x 2 | 5.4 x 2 + 3.0 x 2 | 5.4 x 2 + 4.0 x 2 | 5.4 x 4 | | |
| Fan Unit | Motor Output | kW | 1.0 x 2 | 1.0 x 2 | 1.0 x 3 | 1.0 x 3 | 1.0 x 4 | | |
| | Air Volume | cfm | 7,480 x 2 | 7,700 + 7,480 | 10,850 + 7,480 | 10,850 + 7,700 | 10,850 x 2 | | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | | lb | 24.3 x 2 | | |
| | Electrical Unit | MCA ⁷ | A | 34.2 + 34.2 | 45.4 + 34.2 | 52.1 + 34.2 | 52.1 + 45.4 | | |
| | Recommended Fuse Size | A | 40 + 40 | 50 + 40 | 60 + 40 | 60 + 50 | 60 + 60 | | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-3/8 | | |
| | | Liquid Side (Main Pipe) (Flare) | in | 3/4 | 3/4 | 3/4 | 7/8 | | |
| | | Discharge (Main Pipe) (Flare) | in | 7/8 | 1-1/8 | 1-1/8 | 1-1/8 | | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | | |
| | | | | | | | | | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | | | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | | | |
| Maximum Number of Connected Indoor Units | | | 34 | 38 | 42 | 46 | | | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | | | |
| Sound Pressure Level Cooling / Heating | | | 65/65 | 65.5/66.5 | 68/68 | 68.5/68.5 | | | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵SCHE: Simultaneous Cooling & Heating Efficiency.

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

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

⁸In 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 – 240 type

Equivalent piping length
50 ft, Height difference: 0 ft

Heat Recovery Outdoor Unit (MMYF) 208/230V-3-60



| Standard Model (Combination) | | | | AP3366FT9P-UL | AP3606FT9P-UL | AP3846FT9P-UL | AP4086FT9P-UL | AP4326FT9P-UL | AP4566FT9P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|----------------|
| Outdoor Unit Model Name (MMY) | | | | 28 | 30 | 32 | 34 | 36 | 38 |
| Nominal Tons | | | | 28 | 30 | 32 | 34 | 36 | 38 |
| Combination Model (MMY) | | | | MAP1206FT9P-UL | MAP1206FT9P-UL | MAP1446FT9P-UL | MAP1446FT9P-UL | MAP1446FT9P-UL | MAP1686FT9P-UL |
| | | | | MAP1206FT9P-UL | MAP1206FT9P-UL | MAP1206FT9P-UL | MAP1446FT9P-UL | MAP1446FT9P-UL | MAP1446FT9P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 336 | 360 | 384 | 408 | 432 | 456 | |
| | Rated | kBtu/h | 320 | 342 | 366 | 390 | 410 | 430 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 378 | 405 | 432 | 459 | 486 | 513 | |
| | Rated | kBtu/h | 360 | 386 | 412 | 436 | 462 | 488 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 29.11 | 34.26 | 36.70 | 39.49 | 41.28 | |
| | | IEER ⁴ | Btu/W*hr | 23.9 | 22.7 | 22.7 | 21.9 | 21.4 | |
| | Heating | Power Consumption ³ | kW | 30.23 | 33.48 | 36.34 | 38.73 | 40.99 | |
| | | SCHE ⁵ | Btu/W*hr | 26.0 | 25.1 | 24.5 | 23.5 | 23.2 | |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 30.20 | 34.72 | 37.21 | 39.70 | 42.09 | |
| | | IEER ⁴ | Btu/W*hr | 20.7 | 20.2 | 19.8 | 19.4 | 19.0 | |
| | Heating | Power Consumption ³ | kW | 30.63 | 32.39 | 35.72 | 37.84 | 41.05 | |
| | | SCHE ⁵ | Btu/W*hr | 22.4 | 22.2 | 21.6 | 21.1 | 20.6 | |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | | |
| | Width | in | 47.6 x 3 | 47.6 x 3 | 63.0 + 47.6 x 2 | 63.0 x 2 + 47.6 | 63.0 x 3 | | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | | |
| Total Weight | Unit | lb | 721 x 3 | 721 x 3 | 882 + 721 x 2 | 882 x 2 + 721 | 882 x 3 | | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | | |
| | Motor Output | kW | 4.0 x 4 + 3.0 x 2 | 4.0 x 6 | 5.4 x 2 + 4.0 x 4 | 5.4 x 4 + 4.0 x 2 | 5.4 x 6 | | |
| Fan Unit | Motor Output | kW | 1.0 x 3 | 1.0 x 3 | 1.0 x 4 | 1.0 x 5 | 1.0 x 6 | | |
| | Air Volume | cfm | 7,700 x 2 + 7,480 | 7,700 x 3 | 10,850 + 7,700 x 2 | 10,850 x 2 + 7,700 | 10,850 x 3 | | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | | lb | 24.3 x 3 | | |
| | Electrical Unit | MCA ⁷ | A | 45.4 + 45.4 + 34.2 | 45.4 + 45.4 + 45.4 | 52.1 + 45.4 + 45.4 | 52.1 + 52.1 + 45.4 | | |
| | Recommended Fuse Size | A | 50 + 50 + 40 | 50 + 50 + 50 | 60 + 50 + 50 | 60 + 60 + 50 | 60 + 60 + 60 | | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 1-3/8 | 1-5/8 | 1-5/8 | 1-5/8 | | |
| | | Liquid Side (Main Pipe) (Flare) | in | 7/8 | 7/8 | 7/8 | 7/8 | | |
| | | Discharge (Main Pipe) (Flare) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-3/8 | | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | | |
| | | | | | | | | | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | | | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | | | |
| Maximum Number of Connected Indoor Units | | | 60 | 63 | 64 | 64 | | | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | | | |
| Sound Pressure Level Cooling / Heating | | | 67.5/68.5 | 68/69 | 69.5/70.0 | 70.5/71.0 | | | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵SCHE: Simultaneous Cooling & Heating Efficiency.

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

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

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



The standard pipe
072 type – 120 type

Equivalent piping length
25 ft, Height difference: 0 ft

Heat Recovery Outdoor Unit (MMYF) 208/230V-3-60



| Space Saving Model (Combination) | | | | AP192S6FT9P-UL | AP240S6FT9P-UL | AP288S6FT9P-UL | AP336S6FT9P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------|
| Outdoor Unit Model Name (MMY) | | | | 16 | 20 | 24 | 28 |
| Nominal Tons | | | | MAP1206FT9P-UL | MAP1206FT9P-UL | MAP1686FT9P-UL | MAP1686FT9P-UL |
| Combination Model (MMY) | | | | MAP0726FT9P-UL | MAP1206FT9P-UL | MAP1206FT9P-UL | MAP1686FT9P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 192 | 240 | 288 | 336 | |
| | Rated | kBtu/h | 184 | 230 | 276 | 320 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 216 | 270 | 324 | 378 | |
| | Rated | kBtu/h | 206 | 256 | 308 | 360 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 15.29 | 20.91 | 26.12 | 30.88 |
| | | IEER ⁴ | Btu/W*hr | 25.3 | 22.8 | 22.4 | 21.9 |
| | Heating | Power Consumption ³ | kW | 16.36 | 20.90 | 26.28 | 31.66 |
| | | SCHE ⁵ | Btu/W*hr | 29.5 | 29.0 | 28.1 | 26.0 |
| | Power Supply ² | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | |
| Cooling | Power Consumption ³ | kW | 15.19 | 20.81 | 26.99 | 32.44 | |
| | IEER ⁴ | Btu/W*hr | 19.9 | 20.3 | 19.7 | 19.3 | |
| Heating | Power Consumption ³ | kW | 15.82 | 20.60 | 25.67 | 31.82 | |
| | SCHE ⁵ | Btu/W*hr | 27.4 | 27.7 | 25.9 | 22.4 | |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 + 39.0 | 47.6 x 2 | 63.0 + 47.6 | 63.0 x 2 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 721 + 600 | 721 x 2 | 882 + 721 | 882 x 2 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 4.0 x 2 + 2.1 x 2 | 4.0 x 4 | 6.5 x 2 + 4.0 x 2 | 6.5 x 4 | |
| Fan Unit | Motor Output | kW | 1.0 x 2 | 1.0 x 2 | 1.0 x 3 | 1.0 x 4 | |
| | Air Volume | cfm | 7,700 + 5,900 | 7,700 x 2 | 10,850 + 7,700 | 10,850 x 2 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | | lb | 24.3 x 2 | 24.3 x 2 | 24.3 x 2 | 24.3 x 2 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 45.4 + 23.3 | 45.4 + 45.4 | 66.2 + 45.4 | |
| | Recommended Fuse Size | A | 50 + 30 | 50 + 50 | 70 + 50 | 70 + 70 | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 1-1/8 | 1-3/8 | 1-3/8 | |
| | | Liquid Side (Main Pipe) (Flare) | in | 7/8 | 7/8 | 7/8 | |
| | Discharge (Main Pipe) (Flare) | in | 7/8 | 1-1/8 | 1-1/8 | 1-1/8 | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | |
| Maximum Number of Connected Indoor Units | | | 34 | 42 | 50 | 60 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | |
| Sound Pressure Level Cooling / Heating | | dB(A) | 64.0/65.5 | 66/67 | 68.5/67.0 | 69.5/70.0 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵SCHE: Simultaneous Cooling & Heating Efficiency.

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

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

⁸In 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 – 240 type

Equivalent piping length
50 ft, Height difference: 0 ft

Heat Recovery Outdoor Unit (MMYF) 460V-3-60



| Standard Model (Single Unit) | | | | MAP0726FT6P-UL | MAP0966FT6P-UL | MAP1206FT6P-UL | MAP1446FT6P-UL | MAP1686FT6P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------|----------------|
| Outdoor Unit Model Name (MMY) | | | | 6 | 8 | 10 | 12 | 14 |
| Nominal Tons | | | | 6 | 8 | 10 | 12 | 14 |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 72 | 96 | 120 | 144 | 168 | |
| | Rated | kBtu/h | 69 | 92 | 114 | 138 | 160 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 81 | 108 | 135 | 162 | 189 | |
| | Rated | kBtu/h | 77 | 103 | 129 | 154 | 180 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 4.53 | 7.16 | 9.39 | 11.03 | |
| | | IEER ⁴ | Btu/W*hr | 26.6 | 28.3 | 27.5 | 25.9 | |
| | Heating | Power Consumption ³ | kW | 5.98 | 7.66 | 10.21 | 11.76 | |
| | | SCHE ⁵ | Btu/W*hr | 30.6 | 31.3 | 34.9 | 33.6 | |
| | Power Supply ² | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | | |
| Cooling | Power Consumption ³ | kW | 5.11 | 7.34 | 9.05 | 11.29 | | |
| | IEER ⁴ | Btu/W*hr | 19.5 | 21.4 | 20.0 | 20.2 | | |
| Heating | Power Consumption ³ | kW | 6.25 | 7.61 | 10.34 | 12.02 | | |
| | SCHE ⁵ | Btu/W*hr | 26.9 | 26.7 | 26.7 | 29.9 | | |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | | |
| | Width | in | 39.0 | 47.6 | 47.6 | 63.0 | | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | | |
| Total Weight | Unit | lb | 615 | 736 | 736 | 875 | | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | | |
| | Motor Output | kW | 2.1 x 2 | 3.0 x 2 | 4.0 x 2 | 5.4 x 2 | | |
| Fan Unit | Motor Output | kW | 1.0 | 1.0 | 1.0 | 1.0 x 2 | | |
| | Air Volume | cfm | 5,900 | 7,480 | 7,700 | 10,850 | | |
| | Maximum External Static Pressure | in WG | 0.24 | 0.16 | 0.16 | 0.16 | | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | | lb | 24.3 | 24.3 | 24.3 | 24.3 | | |
| Electrical Specifications | Unit | MCA ⁷ | A | 11.8 | 17.0 | 22.0 | | |
| | Recommended Fuse Size | A | 15 | 20 | 25 | 30 | | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 7/8 | 7/8 | 1-1/8 | | |
| | | Liquid Side (Main Pipe) (Flare) | in | 1/2 | 1/2 | 1/2 | | |
| | Discharge (Main Pipe) (Flare) | in | 3/4 | 3/4 | 3/4 | | | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | | |
| Maximum Number of Connected Indoor Units | | | 12 | 16 | 21 | 25 | | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | | |
| Sound Pressure Level Cooling / Heating | | dB(A) | 57/60 | 62/62 | 63/64 | 66.5/66.5 | | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵SCHE: Simultaneous Cooling & Heating Efficiency.

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

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

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



The standard pipe
072 type – 114 type

Equivalent piping length
25 ft, Height difference: 0 ft

Heat Recovery Outdoor Unit (MMYF) 460V-3-60



| Standard Model (Combination) | | | | AP1926FT6P-UL | AP2166FT6P-UL | AP2406FT6P-UL | AP2646FT6P-UL | AP2886FT6P-UL | AP3126FT6P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------|
| Outdoor Unit Model Name (MMY) | | | | 16 | 18 | 20 | 22 | 24 | 26 |
| Nominal Tons | | | | MAP0966FT6P-UL | MAP1206FT6P-UL | MAP1446FT6P-UL | MAP1446FT6P-UL | MAP1446FT6P-UL | MAP1686FT6P-UL |
| Combination Model (MMY) | | | | MAP0966FT6P-UL | MAP0966FT6P-UL | MAP0966FT6P-UL | MAP1206FT6P-UL | MAP1446FT6P-UL | MAP1446FT6P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 192 | 216 | 240 | 264 | 288 | 312 |
| | Rated | kBtu/h | | 184 | 206 | 230 | 252 | 276 | 298 |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 216 | 243 | 270 | 297 | 324 | 351 |
| | Rated | kBtu/h | | 206 | 232 | 256 | 282 | 308 | 334 |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 14.60 | 17.22 | 19.29 | 22.44 | 24.14 | 28.14 |
| | | IEER ⁴ | Btu/W*hr | 26.1 | 24.2 | 23.3 | 23.1 | 22.8 | 22.1 |
| | Heating | Power Consumption ³ | kW | 15.91 | 18.63 | 20.30 | 23.76 | 25.50 | 28.98 |
| | | SCHE ⁵ | Btu/W*hr | 29.5 | 29.0 | 29.0 | 27.7 | 28.1 | 26.7 |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 14.91 | 17.29 | 19.26 | 22.01 | 23.96 | 28.61 |
| | | IEER ⁴ | Btu/W*hr | 20.4 | 20.5 | 20.8 | 20.5 | 20.2 | 19.7 |
| | Heating | Power Consumption ³ | kW | 15.36 | 17.09 | 19.99 | 22.80 | 24.97 | 28.61 |
| | | SCHE ⁵ | Btu/W*hr | 27.4 | 27.6 | 27.7 | 27.0 | 25.9 | 24.7 |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 x 2 | 47.6 x 2 | 63.0 + 47.6 | 63.0 + 47.6 | 63.0 x 2 | 63.0 x 2 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 736 x 2 | 736 x 2 | 875 + 736 | 875 + 736 | 875 x 2 | 875 x 2 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 3.0 x 4 | 4.0 x 2 + 3.0 x 2 | 5.4 x 2 + 3.0 x 2 | 5.4 x 2 + 4.0 x 2 | 5.4 x 4 | 6.5 x 2 + 5.4 x 2 | |
| Fan Unit | Motor Output | kW | 1.0 x 2 | 1.0 x 2 | 1.0 x 3 | 1.0 x 3 | 1.0 x 4 | 1.0 x 4 | |
| | Air Volume | cfm | 7,480 x 2 | 7,700 + 7,480 | 10,850 + 7,480 | 10,850 + 7,700 | 10,850 x 2 | 10,850 x 2 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | 24.3 x 2 | | |
| Electrical Specifications | Unit | MCA ⁷ | A | 17 + 17 | 22 + 17 | 23.4 + 17 | 23.4 + 22 | 23.4 + 23.4 | 29.7 + 23.4 |
| | Recommended Fuse Size | A | 20 + 20 | 25 + 20 | 30 + 20 | 30 + 25 | 30 + 30 | 35 + 30 | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-3/8 |
| | | Liquid Side (Main Pipe) (Flare) | in | 3/4 | 3/4 | 3/4 | 7/8 | 7/8 | 7/8 |
| | | Discharge (Main Pipe) (Flare) | in | 7/8 | 1-1/8 | 1-1/8 | 1-1/8 | 1-1/8 | 1-1/8 |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | | Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 |
| Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | | |
| Maximum Number of Connected Indoor Units | | | 34 | 38 | 42 | 46 | 50 | 55 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | |
| Sound Pressure Level Cooling / Heating | | dB(A) | 65/65 | 65.5/66.5 | 68/68 | 68.5/68.5 | 69.5/69.5 | 69.5/70.0 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵SCHE: Simultaneous Cooling & Heating Efficiency.

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

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

⁸In 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 – 240 type

Equivalent piping length
50 ft, Height difference: 0 ft

Heat Recovery Outdoor Unit (MMYF) 460V-3-60



| Standard Model (Combination) | | | | AP3366FT6P-UL | AP3606FT6P-UL | AP3846FT6P-UL | AP4086FT6P-UL | AP4326FT6P-UL | AP4566FT6P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------|
| Outdoor Unit Model Name (MMY) | | | | 28 | 30 | 32 | 34 | 36 | 38 |
| Nominal Tons | | | | MAP1206FT6P-UL | MAP1206FT6P-UL | MAP1446FT6P-UL | MAP1446FT6P-UL | MAP1446FT6P-UL | MAP1686FT6P-UL |
| Combination Model (MMY) | | | | MAP1206FT6P-UL | MAP1206FT6P-UL | MAP1206FT6P-UL | MAP1446FT6P-UL | MAP1446FT6P-UL | MAP1446FT6P-UL |
| | | | | MAP0966FT6P-UL | MAP1206FT6P-UL | MAP1206FT6P-UL | MAP1206FT6P-UL | MAP1446FT6P-UL | MAP1446FT6P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 336 | 360 | 384 | 408 | 432 | 456 |
| | Rated | kBtu/h | | 320 | 342 | 366 | 390 | 412 | 434 |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 378 | 405 | 432 | 459 | 486 | 513 |
| | Rated | kBtu/h | | 360 | 386 | 412 | 436 | 462 | 488 |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 29.11 | 34.26 | 36.70 | 39.49 | 40.14 | 44.58 |
| | | IEER ⁴ | Btu/W*hr | 23.9 | 23.3 | 22.7 | 21.9 | 21.4 | 19.4 |
| | Heating | Power Consumption ³ | kW | 30.23 | 33.48 | 36.34 | 38.73 | 40.99 | 43.60 |
| | | SCHE ⁵ | Btu/W*hr | 26.0 | 25.1 | 24.5 | 23.5 | 23.2 | 23.2 |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 30.20 | 34.72 | 37.21 | 39.70 | 42.09 | 45.32 |
| | | IEER ⁴ | Btu/W*hr | 20.7 | 20.2 | 19.8 | 19.4 | 19.0 | 18.9 |
| | Heating | Power Consumption ³ | kW | 30.63 | 32.39 | 35.72 | 37.84 | 41.05 | 43.36 |
| | | SCHE ⁵ | Btu/W*hr | 22.4 | 22.2 | 21.6 | 21.1 | 20.6 | 20.8 |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 x 3 | 47.6 x 3 | 63.0 + 47.6 x 2 | 63.0 x 2 + 47.6 | 63.0 x 3 | 63.0 x 3 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 736 x 3 | 736 x 3 | 875 + 736 x 2 | 875 x 2 + 736 | 875 x 3 | 875 x 3 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 4.0 x 4 + 3.0 x 2 | 4.0 x 6 | 5.4 x 2 + 4.0 x 4 | 5.4 x 4 + 4.0 x 2 | 5.4 x 6 | 6.5 x 2 + 5.4 x 4 | |
| Fan Unit | Motor Output | kW | 1.0 x 3 | 1.0 x 3 | 1.0 x 4 | 1.0 x 5 | 1.0 x 6 | 1.0 x 6 | |
| | Air Volume | cfm | 7,700 x 2 + 7,480 | 7,700 x 3 | 10,850 + 7,700 x 2 | 10,850 x 2 + 7,700 | 10,850 x 3 | 10,850 x 3 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | 24.3 x 3 | | |
| Electrical Specifications | Unit | MCA ⁷ | A | 22 + 22 + 17 | 22 + 22 + 22 | 23.4 + 22 + 22 | 23.4 + 23.4 + 22 | 23.4 + 23.4 + 23.4 | 29.7 + 23.4 + 23.4 |
| | Recommended Fuse Size | A | 25 + 25 + 20 | 25 + 25 + 20 | 30 + 25 + 25 | 30 + 30 + 25 | 30 + 30 + 30 | 35 + 30 + 30 | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 1-3/8 | 1-5/8 | 1-5/8 | 1-5/8 | 1-5/8 | 1-5/8 |
| | | Liquid Side (Main Pipe) (Flare) | in | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| | | Discharge (Main Pipe) (Flare) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-3/8 |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | | Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 |
| Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | | |
| Maximum Number of Connected Indoor Units | | | 60 | 63 | 64 | 64 | 64 | 64 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | |
| Sound Pressure Level Cooling / Heating | | dB(A) | 67.5/68.5 | 68/69 | 69.5/70.0 | 70.5/71.0 | 71.5/71.5 | 71.5/71.5 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵SCHE: Simultaneous Cooling & Heating Efficiency.

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

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

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



The standard pipe
072 type – 114 type

Equivalent piping length
25 ft, Height difference: 0 ft

Heat Recovery Outdoor Unit (MMYF) 460V-3-60



| Space Saving Model (Combination) | | | | AP192S6FT6P-UL | AP240S6FT6P-UL | AP288S6FT6P-UL | AP336S6FT6P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------|
| Outdoor Unit Model Name (MMY) | | | | 16 | 20 | 24 | 28 |
| Nominal Tons | | | | MAP1206FT6P-UL | MAP1206FT6P-UL | MAP1686FT6P-UL | MAP1686FT6P-UL |
| Combination Model (MMY) | | | | MAP0726FT6P-UL | MAP1206FT6P-UL | MAP1206FT6P-UL | MAP1686FT6P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 192 | 240 | 288 | 336 | |
| | Rated | kBtu/h | 184 | 230 | 276 | 320 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 216 | 270 | 324 | 378 | |
| | Rated | kBtu/h | 206 | 256 | 308 | 360 | |
| With Non-Ducted Indoor Units | Power Supply ² | | 460V, 3-Phase, 60Hz | | | | |
| | Cooling | Power Consumption ³ | kW | 15.29 | 20.91 | 26.12 | 30.88 |
| | | IEER ⁴ | Btu/W*hr | 25.3 | 22.8 | 22.4 | 21.9 |
| | Heating | Power Consumption ³ | kW | 16.36 | 20.90 | 26.28 | 31.66 |
| SCHE ⁵ | | Btu/W*hr | 29.5 | 29.0 | 28.1 | 26.0 | |
| With Ducted Indoor Units | Power Supply ² | | 460V, 3-Phase, 60Hz | | | | |
| | Cooling | Power Consumption ³ | kW | 15.19 | 20.81 | 26.99 | 32.44 |
| | | IEER ⁴ | Btu/W*hr | 19.9 | 20.3 | 19.7 | 19.3 |
| | Heating | Power Consumption ³ | kW | 15.82 | 20.60 | 25.67 | 31.82 |
| SCHE ⁵ | | Btu/W*hr | 27.4 | 27.7 | 25.9 | 22.4 | |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 + 39.0 | 47.6 x 2 | 63.0 + 47.6 | 63.0 x 2 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 736 + 615 | 736 x 2 | 875 + 736 | 875 x 2 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 4.0 x 2 + 2.1 x 2 | 4.0 x 4 | 6.5 x 2 + 4.0 x 2 | 6.5 x 4 | |
| Fan Unit | Motor Output | kW | 1.0 x 2 | 1.0 x 2 | 1.0 x 3 | 1.0 x 4 | |
| | Air Volume | cfm | 7,700 + 5,900 | 7,700 x 2 | 10,850 + 7,700 | 10,850 x 2 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | | lb | 24.3 x 2 | 24.3 x 2 | 24.3 x 2 | 24.3 x 2 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 22 + 11.8 | 22 + 22 | 29.7 + 22 | 29.7 + 29.7 |
| | | Recommended Fuse Size | A | 25 + 15 | 25 + 25 | 35 + 25 | 35 + 35 |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Brazing) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-3/8 |
| | | Liquid Side (Main Pipe) (Flare) | in | 7/8 | 7/8 | 7/8 | 7/8 |
| | Discharge (Main Pipe) (Flare) | in | 7/8 | 1-1/8 | 1-1/8 | 1-1/8 | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | |
| Maximum Number of Connected Indoor Units | | | 34 | 42 | 50 | 60 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | |
| Sound Pressure Level Cooling / Heating | | dB(A) | 64/65.5 | 66/67 | 68.5/67 | 69.5/70 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵SCHE: Simultaneous Cooling & Heating Efficiency.

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

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

⁸In 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 – 240 type

Equivalent piping length
50 ft, Height difference: 0 ft

Single-Phase Heat Pump Outdoor Unit (MCY7) 208/230V-1-60



| Standard Model (Single Unit) | | | | MAP0367HS-UL | MAP0487HS-UL | MAP0607HS-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------|
| Outdoor Unit Model Name (MMY) | | | | 3 | 4 | 5 |
| Nominal Tons | | | | | | |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 36 | 48 | 60 |
| | | | | | | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 40 | 54 | 66 |
| | | | | | | |
| Power Supply ² | | | 208/230V, 1Phase, 60Hz | 208/230V, 1Phase, 60Hz | 208/230V, 1Phase, 60Hz | |
| With Non-Ducted Indoor Units | Cooling | Power Consumption ³ | kW | 2.29 | 3.71 | 5.26 |
| | | EER ⁴ | Btu/W*hr | 15.7 | 12.95 | 11.4 |
| Electrical Characteristics (Nominal) ¹ | Heating | Power Consumption ³ | kW | 2.79 | 3.95 | 5.16 |
| | | COP ⁵ | Btu/W*hr | 4.20 | 4.01 | 3.75 |
| SEER ⁶ | | | | 22.7 | 21.0 | 20.5 |
| HSPF ⁷ | | | | 11.5 | 11.5 | 11.5 |
| Power Supply ² | | | 208/230V, 1Phase, 60Hz | 208/230V, 1Phase, 60Hz | 208/230V, 1Phase, 60Hz | |
| With Ducted Indoor Units | Cooling | Power Consumption ³ | kW | 2.76 | 4.87 | 5.76 |
| | | EER ⁴ | Btu/W*hr | 13.05 | 9.85 | 10.40 |
| Electrical Characteristics (Nominal) ¹ | Heating | Power Consumption ³ | kW | 3.45 | 5.27 | 5.34 |
| | | COP ⁵ | Btu/W*hr | 3.40 | 3.00 | 3.62 |
| SEER ⁶ | | | | 17.70 | 16.60 | 17.60 |
| HSPF ⁷ | | | | 10.5 | 9.5 | 11.0 |
| External Dimensions | Height | in | 61 | 61 | 61 | |
| | Width | in | 39.8 | 39.8 | 39.8 | |
| | Depth | in | 14.6 | 14.6 | 14.6 | |
| Total Weight | Unit | lb | 311 | 311 | 311 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | Hermetic Twin Rotary Compressor | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 3.75 | 3.75 | 3.75 | |
| Fan Unit | Motor Output | kW | 100 + 100 | 100 + 100 | 100 + 100 | |
| | Air Volume | cfm | 4,520 | 4,690 | 4,850 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | | lb | 14.8 | 14.8 | 14.8 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 36.3 | 36.3 | 36.3 |
| | | Recommended Fuse Size | A | 40 | 40 | 40 |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Brazing) | in | 5/8 | 5/8 | 3/4 |
| | | Liquid Side (Main Pipe) (Flare) | in | 3/8 | 3/8 | 3/8 |
| Operation Temperature Range | Cooling | ° F DB | 23-122 | 23-122 | 23-122 | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | |
| Maximum Number of Connected Indoor Units | | | 6 | 8 | 9 | |
| Maximum Capacity of Combined Indoor Units ¹⁰ | | | 80-135% | 80-135% | 50-135% | |
| Sound Pressure Level Cooling / Heating | | dB(A) | 52/56 | 54/57 | 55/58 | |

¹Rated conditions:

Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.

Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴EER: Energy Efficiency Ratio.

⁵COP: Coefficient of Performance.

⁶SEER: Seasonal Energy Efficiency Ratio.

⁷HSPF: Heating Seasonal Performance Ratio.

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

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

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

Heat Pump Outdoor Unit (MMYH) 208/230V-3-60



| Standard Model (Single Unit) | | | | MAP0726HT9P-UL | MAP0966HT9P-UL | MAP1206HT9P-UL | MAP1446HT9P-UL | MAP1686HT9P-UL |
|--|---------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|
| Outdoor Unit Model Name (MMY) | | | | | | | | |
| Nominal Tons | | | | 6 | 8 | 10 | 12 | 14 |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 72 | 96 | 120 | 144 | 168 | |
| | Rated | kBtu/h | 69 | 92 | 114 | 138 | 160 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 81 | 108 | 135 | 162 | 189 | |
| | Rated | kBtu/h | 77 | 103 | 129 | 154 | 180 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 4.49 | 7.12 | 8.65 | 10.85 | 14.26 |
| | | IEER ⁴ | Btu/W*hr | 29.0 | 28.0 | 25.1 | 25.6 | 23.8 |
| | Heating | Power Consumption ³ | kW | 5.17 | 6.53 | 9.22 | 10.68 | 13.82 |
| | | COP ⁵ | W/W | 4.23 | 4.50 | 3.99 | 4.12 | 3.74 |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 4.69 | 6.28 | 8.81 | 11.09 | 13.39 |
| | | IEER ⁴ | Btu/W*hr | 22.7 | 22.3 | 21.6 | 20.0 | 19.0 |
| | Heating | Power Consumption ³ | kW | 5.47 | 6.83 | 9.04 | 10.47 | 13.36 |
| | | COP ⁵ | W/W | 3.79 | 4.00 | 3.89 | 3.91 | 3.63 |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 39.0 | 47.6 | 47.6 | 63.0 | 63.0 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 574 | 684 | 684 | 838 | 838 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 2.1 x 2 | 3.0 x 2 | 4.0 x 2 | 5.4 x 2 | 6.5 x 2 | |
| Fan Unit | Motor Output | kW | 1.0 | 1.0 | 1.0 | 1.0 x 2 | 1.0 x 2 | |
| | Air Volume | cfm | 6,700 | 7,480 | 7,480 | 9,760 | 10,100 | |
| Maximum External Static Pressure | | in WG | 0.24 | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | | lb | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 27.0 | 36.0 | 42.0 | 54.0 | 69.0 |
| | Recommended Fuse Size | A | 30.0 | 40.0 | 45.0 | 60.0 | 75.0 | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Brazing) | in | 7/8 | 7/8 | 1-1/8 | 1-1/8 | 1-1/8 |
| | | Liquid Side (Main Pipe) (Flare) | in | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | | Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | |
| Maximum Number of Connected Indoor Units | | | 12 | 16 | 21 | 25 | 30 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 80-150% | 80-150% | 80-150% | 80-150% | 80-150% | |
| Sound Pressure Level Cooling / Heating | | dB(A) | 56/58 | 61/61 | 61/62 | 63/64 | 64/65 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵COP: Coefficient of Performance.

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

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

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



The standard pipe
072 type – 120 type

Equivalent piping length
25 ft, Height difference: 0 ft

Heat Pump Outdoor Unit (MMYH) 208/230V-3-60



| Standard Model (Combination) | | | | AP1926HT9P-UL | AP2166HT9P-UL | AP2406HT9P-UL | AP2646HT9P-UL | AP2886HT9P-UL | AP3126HT9P-UL | AP3366HT9P-UL | | |
|--|---------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|-------------------------|-----|
| Outdoor Unit Model Name (MMY) | | | | | | | | | | | | |
| Nominal Tons | | | | 16 | 18 | 20 | 22 | 24 | 26 | 28 | | |
| Combination Model (MMY) | | | | MAP0966HT9P-UL | MAP1206HT9P-UL | MAP1446HT9P-UL | MAP1446HT9P-UL | MAP1446HT9P-UL | MAP1686HT9P-UL | MAP1686HT9P-UL | | |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | | | | Nominal | kBtu/h | 192 | 216 | 240 | 264 | 288 | 312 | 336 |
| | | | | Rated | kBtu/h | 184 | 206 | 230 | 252 | 276 | 298 | 320 |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | | | | Nominal | kBtu/h | 216 | 243 | 270 | 297 | 324 | 351 | 378 |
| | | | | Rated | kBtu/h | 206 | 232 | 256 | 282 | 308 | 334 | 360 |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 13.97 | 16.75 | 18.63 | 21.56 | 24.19 | 27.97 | 30.27 | | |
| | | IEER ⁴ | Btu/W*hr | 25.5 | 24.6 | 24.1 | 22.8 | 22.5 | 22.1 | 22.0 | | |
| | Heating | Power Consumption ³ | kW | 14.50 | 17.01 | 19.47 | 22.09 | 24.40 | 27.94 | 30.70 | | |
| | | COP ⁵ | W/W | 4.05 | 3.90 | 3.75 | 3.65 | 3.60 | 3.42 | 3.35 | | |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | | |
| | Cooling | Power Consumption ³ | kW | 13.40 | 15.39 | 17.46 | 19.57 | 22.88 | 25.94 | 29.04 | | |
| | | IEER ⁴ | Btu/W*hr | 20.3 | 20.3 | 20.6 | 20.4 | 20.0 | 19.7 | 19.6 | | |
| | Heating | Power Consumption ³ | kW | 13.64 | 15.91 | 17.67 | 19.83 | 22.33 | 25.31 | 28.82 | | |
| | | COP ⁵ | W/W | 4.00 | 3.93 | 3.95 | 3.90 | 3.81 | 3.66 | 3.49 | | |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | | | |
| | Width | in | 47.6 x 2 | 47.6 x 2 | 63.0 + 47.6 | 63.0 + 47.6 | 63.0 x 2 | 63.0 x 2 | 63.0 x 2 | | | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | | | |
| Total Weight | Unit | lb | 684 x 2 | 684 x 2 | 838 + 684 | 838 + 684 | 838 x 2 | 838 x 2 | 838 x 2 | | | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | | | |
| | Motor Output | kW | 3.0 x 4 | 4.0 x 2 + 3.0 x 2 | 5.4 x 2 + 3.0 x 2 | 5.4 x 2 + 4.0 x 2 | 5.4 x 4 | 6.5 x 2 + 5.4 x 2 | 6.5 x 4 | | | |
| Fan Unit | Motor Output | kW | 1.0 x 2 | 1.0 x 2 | 1.0 x 3 | 1.0 x 3 | 1.0 x 4 | 1.0 x 4 | 1.0 x 4 | | | |
| | Air Volume | cfm | 7,480 x 2 | 7,480 x 2 | 9,760 + 7,480 | 9,760 + 7,480 | 9,760 x 2 | 10,100 + 9,760 | 10,100 x 2 | | | |
| Maximum External Static Pressure | | in WG | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | | | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | | lb | 25.4 x 2 | | | |
| Electrical Specifications | Unit | MCA ⁷ | A | 36 + 36 | 42 + 36 | 54 + 36 | 54 + 42 | 54 + 54 | 69 + 54 | 69 + 69 | | |
| | Recommended Fuse Size | A | 40 + 40 | 45 + 40 | 60 + 40 | 60 + 45 | 60 + 60 | 75 + 60 | 75 + 75 | | | |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Brazing) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-5/8 | | |
| | | Liquid Side (Main Pipe) (Flare) | in | 5/8 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 7/8 | | |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | | |
| | | Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | | | |
| Maximum Number of Connected Indoor Units | | | 34 | 38 | 42 | 46 | 50 | 55 | 60 | | | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 80-150% | 80-150% | 80-150% | 80-150% | 80-150% | 80-150% | 80-150% | | | |
| Sound Pressure Level Cooling / Heating | | dB(A) | 64/64 | 64.0/64.5 | 65.5/66.0 | 65.5/66.5 | 66/67 | 66.5/67.5 | 67/68 | | | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.

²The source voltage must not fluctuate more than ±10%.

³Only for outdoor unit.

⁴IEER: Integrated Energy Efficiency Ratio.

⁵COP: Coefficient of Performance.

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

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

⁸In 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 – 240 type

Equivalent piping length
50 ft, Height difference: 0 ft

Heat Pump Outdoor Unit (MMYH) 208/230V-3-60



| Standard Model (Single Unit) | | | | AP360HT9P-UL | AP384HT9P-UL | AP408HT9P-UL | AP432HT9P-UL | AP456HT9P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|
| Outdoor Unit Model Name (MMY) | | | | 30 | 32 | 34 | 36 | 38 |
| Nominal Tons | | | | MAP1206HT9P-UL | MAP1446HT9P-UL | MAP1446HT9P-UL | MAP1686HT9P-UL | MAP1686HT9P-UL |
| Combination Model (MMY) | | | | MAP1206HT9P-UL | MAP1206HT9P-UL | MAP1446HT9P-UL | MAP1446HT9P-UL | MAP1686HT9P-UL |
| | | | | MAP1206HT9P-UL | MAP1206HT9P-UL | MAP1206HT9P-UL | MAP1206HT9P-UL | MAP1206HT9P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 360 | 384 | 408 | 432 | 456 |
| | Rated | kBtu/h | | 342 | 366 | 390 | 412 | 434 |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 405 | 432 | 459 | 486 | 513 |
| | Rated | kBtu/h | | 386 | 412 | 436 | 462 | 488 |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 28.67 | 33.60 | 36.55 | 40.14 | 44.58 |
| | | IEER ⁴ | Btu/W*hr | 22.4 | 21.8 | 21.4 | 21.3 | 20.9 |
| | Heating | Power Consumption ³ | kW | 31.33 | 34.58 | 36.86 | 40.22 | 43.60 |
| | | COP ⁵ | W/W | 3.52 | 3.40 | 3.38 | 3.28 | 3.20 |
| | Power Supply ² | | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz |
| Cooling | Power Consumption ³ | kW | 27.32 | 31.47 | 33.58 | 38.35 | 42.06 | |
| | IEER ⁴ | Btu/W*hr | 20.3 | 19.8 | 19.6 | 19.1 | 19.3 | |
| Heating | Power Consumption ³ | kW | 29.40 | 32.52 | 36.34 | 39.15 | 42.27 | |
| | COP ⁵ | W/W | 3.66 | 3.55 | 3.37 | 3.32 | 3.26 | |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 x 3 | 63.0 + 47.6 x 2 | 63.0 x 2 + 47.6 | 63.0 x 2 + 47.6 | 63.0 x 2 + 47.6 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 684 x 3 | 838 + 684 x 2 | 838 x 2 + 684 | 838 x 2 + 684 | 838 x 2 + 684 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 4.0 x 6 | 5.4 x 2 + 4.0 x 4 | 5.4 x 4 + 4.0 x 2 | 6.5 x 2 + 5.4 x 2 + 4.0 x 2 | 6.5 x 4 + 4.0 x 2 | |
| Fan Unit | Motor Output | kW | 1.0 x 3 | 1.0 x 4 | 1.0 x 5 | 1.0 x 5 | 1.0 x 5 | |
| | Air Volume | cfm | 7,480 x 3 | 9,760 + 7,480 x 2 | 9,760 x 2 + 7,480 | 10,100 + 9,760 + 7,480 | 10,100 x 2 + 7,480 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | | 25.4 x 3 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 42 + 42 + 42 | 54 + 42 + 42 | 54 + 54 + 42 | 69 + 54 + 42 | 69 + 69 + 42 |
| | | Recommended Fuse Size | A | 45 + 45 + 45 | 60 + 45 + 45 | 60 + 60 + 45 | 75 + 60 + 45 | 75 + 75 + 45 |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Brazeing) | in | 1-5/8 | 1-5/8 | 1-5/8 | 1-5/8 | 1-5/8 |
| | | Liquid Side (Main Pipe) (Flare) | in | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | | | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| Operation Temperature Range | Cooling | ° F DB | | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 |
| | Heating | ° F WB | | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 |
| Maximum Number of Connected Indoor Units | | | 63 | 64 | 64 | 64 | 64 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 80-150% | 80-150% | 80-150% | 80-150% | 80-150% | |
| Sound Pressure Level Cooling / Heating | dB(A) | | 66/67 | 66.5/67.5 | 67.5/68.5 | 68/69 | 68/69 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.
²The source voltage must not fluctuate more than ±10%.
³Only for outdoor unit.
⁴IEER: Integrated Energy Efficiency Ratio.
⁵COP: Coefficient of Performance.
⁶The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
⁷Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
⁸In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor units is reduced.



The standard pipe
072 type – 120 type
Equivalent piping length
25 ft, Height difference: 0 ft

Heat Pump Outdoor Unit (MMYH) 208/230V-3-60



| Space Saving Model (Combination) | | | | AP192S6HT9P-UL | AP240S6HT9P-UL | AP288S6HT9P-UL | AP408S6HT9P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|
| Outdoor Unit Model Name (MMY) | | | | 16 | 20 | 24 | 34 |
| Nominal Tons | | | | MAP1206HT9P-UL | MAP1206HT9P-UL | MAP1686HT9P-UL | MAP1686HT9P-UL |
| Combination Model (MMY) | | | | MAP0726HT9P-UL | MAP1206HT9P-UL | MAP1206HT9P-UL | MAP1206HT9P-UL |
| | | | | - | - | - | MAP1206HT9P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 192 | 240 | 288 | 408 |
| | Rated | kBtu/h | | 184 | 230 | 276 | 390 |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | | 216 | 270 | 324 | 459 |
| | Rated | kBtu/h | | 206 | 256 | 308 | 436 |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 14.19 | 19.29 | 24.65 | 37.29 |
| | | IEER ⁴ | Btu/W*hr | 22.2 | 23.6 | 25.1 | 21.0 |
| | Heating | Power Consumption ³ | kW | 14.87 | 19.74 | 25.12 | 37.77 |
| | | COP ⁵ | W/W | 3.95 | 3.70 | 3.50 | 3.30 |
| | Power Supply ² | | | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz | 208/230V, 3-Phase, 60Hz |
| Cooling | Power Consumption ³ | kW | 13.87 | 17.61 | 23.09 | 34.87 | |
| | IEER ⁴ | Btu/W*hr | 19.9 | 30.3 | 19.6 | 19.3 | |
| Heating | Power Consumption ³ | kW | 14.31 | 17.90 | 22.64 | 36.90 | |
| | COP ⁵ | W/W | 3.83 | 3.90 | 3.76 | 3.32 | |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 + 39.0 | 47.6 x 2 | 63.0 + 47.6 | 63.0 + 47.6 x 2 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 684 + 574 | 684 x 2 | 838 + 684 | 838 + 684 x 2 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 4.0 x 2 + 2.1 x 2 | 4.0 x 4 | 6.5 x 2 + 4.0 x 2 | 6.5 x 2 + 4.0 x 4 | |
| Fan Unit | Motor Output | kW | 1.0 x 2 | 1.0 x 2 | 1.0 x 3 | 1.0 x 4 | |
| | Air Volume | cfm | 7,480 + 6,700 | 7,480 x 2 | 10,100 + 7,480 | 10,100 + 7,480 x 2 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | | 25.4 x 2 | 25.4 x 2 | 25.4 x 2 | 25.4 x 3 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 42 + 27 | 42 + 42 | 69 + 42 | 69 + 42 + 42 |
| | | Recommended Fuse Size | A | 45 + 30 | 45 + 45 | 75 + 45 | 75 + 45 + 45 |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Brazeing) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-5/8 |
| | | Liquid Side (Main Pipe) (Flare) | in | 5/8 | 3/4 | 3/4 | 7/8 |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 |
| | | | in | 3/8 | 3/8 | 3/8 | 3/8 |
| Operation Temperature Range | Cooling | ° F DB | | 14-122 | 14-122 | 14-122 | 14-122 |
| | Heating | ° F WB | | -13-60 | -13-60 | -13-60 | -13-60 |
| Maximum Number of Connected Indoor Units | | | 34 | 42 | 50 | 64 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 80-150% | 80-150% | 80-150% | 80-150% | |
| Sound Pressure Level Cooling / Heating | dB(A) | | 62.5/63.5 | 64/65 | 66/67 | 67/68 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.
²The source voltage must not fluctuate more than ±10%.
³Only for outdoor unit.
⁴IEER: Integrated Energy Efficiency Ratio.
⁵COP: Coefficient of Performance.
⁶The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
⁷Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
⁸In 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 – 240 type
Equivalent piping length
50 ft, Height difference: 0 ft

Heat Pump Outdoor Unit (MMYH) 460V-3-60



| Standard Model (Single Unit) | | | | MAP072GHT6P-UL | MAP096GHT6P-UL | MAP120GHT6P-UL | MAP144GHT6P-UL | MAP168GHT6P-UL |
|--|----------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------|
| Outdoor Unit Model Name (MMY) | | | | | | | | |
| Nominal Tons | | | | 6 | 8 | 10 | 12 | 14 |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 72 | 96 | 120 | 144 | 168 | |
| | Rated | kBtu/h | 69 | 92 | 114 | 138 | 160 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 81 | 108 | 135 | 162 | 189 | |
| | Rated | kBtu/h | 77 | 103 | 129 | 154 | 180 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 460V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 4.49 | 7.12 | 8.65 | 10.85 | 14.26 |
| | | IEER ⁴ | Btu/W*hr | 29.0 | 28.0 | 25.1 | 25.6 | 23.8 |
| | Heating | Power Consumption ³ | kW | 5.17 | 6.53 | 9.22 | 10.68 | 13.82 |
| | | COP ⁵ | W/W | 4.23 | 4.50 | 3.99 | 4.12 | 3.74 |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 460V, 3-Phase, 60Hz | |
| | Cooling | Power Consumption ³ | kW | 4.69 | 6.28 | 8.81 | 11.09 | 13.39 |
| | | IEER ⁴ | Btu/W*hr | 22.7 | 22.3 | 21.6 | 20.0 | 19.0 |
| | Heating | Power Consumption ³ | kW | 5.47 | 6.83 | 9.04 | 10.47 | 13.36 |
| | | COP ⁵ | W/W | 3.79 | 4.00 | 3.89 | 3.91 | 3.63 |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 39.0 | 47.6 | 47.6 | 63.0 | 63.0 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 574 | 684 | 684 | 838 | 838 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 2.1 x 2 | 3.0 x 2 | 4.0 x 2 | 5.4 x 2 | 6.5 x 2 | |
| Fan Unit | Motor Output | kW | 1.0 | 1.0 | 1.0 | 1.0 x 2 | 1.0 x 2 | |
| | Air Volume | cfm | 6,700 | 7,480 | 7,480 | 9,760 | 10,080 | |
| | Maximum External Static Pressure | in WG | 0.24 | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | | |
| Electrical Specifications | Unit | MCA ⁷ | A | 12.9 | 20.0 | 23.0 | 25 | 31 |
| | | Recommended Fuse Size | A | 15 | 25 | 25 | 30 | 35 |
| | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 7/8 | 7/8 | 1-1/8 | 1-1/8 | 1-1/8 |
| Liquid Side (Main Pipe) (Flare) | | in | 1/2 | 1/2 | 1/2 | 5/8 | 5/8 | |
| Balance Pipe (Flare) | | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | |
| Maximum Number of Connected Indoor Units | | | 12 | 16 | 21 | 25 | 30 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | |
| Sound Pressure Level Cooling / Heating | dB(A) | | 56/58 | 61/61 | 61/62 | 63/64 | 64/65 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.
²The source voltage must not fluctuate more than ±10%.
³Only for outdoor unit.
⁴IEER: Integrated Energy Efficiency Ratio.
⁵COP: Coefficient of Performance.
⁶The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
⁷Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
⁸In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor units is reduced.



The standard pipe
072 type – 120 type
Equivalent piping length
25 ft, Height difference: 0 ft

Heat Pump Outdoor Unit (MMYH) 460V-3-60



| Standard Model (Combination) | | | | AP1926HT6P-UL | AP2166HT6P-UL | AP2406HT6P-UL | AP2646HT6P-UL | AP2886HT6P-UL | AP3126HT6P-UL | AP3366HT6P-UL |
|--|----------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------|
| Outdoor Unit Model Name (MMY) | | | | | | | | | | |
| Nominal Tons | | | | 16 | 18 | 20 | 22 | 24 | 26 | 28 |
| Combination Model (MMY) | | | | MAP096GHT6P-UL | MAP120GHT6P-UL | MAP144GHT6P-UL | MAP144GHT6P-UL | MAP144GHT6P-UL | MAP168GHT6P-UL | MAP168GHT6P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 192 | 216 | 240 | 264 | 288 | 312 | 336 | |
| | Rated | kBtu/h | 184 | 206 | 230 | 252 | 276 | 298 | 320 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 216 | 243 | 270 | 297 | 324 | 351 | 378 | |
| | Rated | kBtu/h | 206 | 232 | 256 | 282 | 308 | 334 | 360 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 13.97 | 16.75 | 18.63 | 21.56 | 24.19 | 27.97 | 30.27 |
| | | IEER ⁴ | Btu/W*hr | 25.5 | 24.6 | 24.1 | 22.8 | 22.5 | 22.1 | 22.0 |
| | Heating | Power Consumption ³ | kW | 14.50 | 17.01 | 19.47 | 22.09 | 24.40 | 27.94 | 30.70 |
| | | COP ⁵ | W/W | 4.05 | 3.90 | 3.75 | 3.65 | 3.60 | 3.42 | 3.35 |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 13.40 | 15.39 | 17.46 | 19.57 | 22.88 | 25.94 | 29.04 |
| | | IEER ⁴ | Btu/W*hr | 20.3 | 20.3 | 20.6 | 20.4 | 20.0 | 19.7 | 19.6 |
| | Heating | Power Consumption ³ | kW | 13.64 | 15.91 | 17.67 | 19.83 | 22.33 | 25.31 | 28.82 |
| | | COP ⁵ | W/W | 4.00 | 3.93 | 3.95 | 3.90 | 3.81 | 3.66 | 3.49 |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 x 2 | 47.6 x 2 | 63.0 + 47.6 | 63.0 + 47.6 | 63.0 x 2 | 63.0 x 2 | 63.0 x 2 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 684 x 2 | 684 x 2 | 838 + 684 | 838 + 684 | 838 x 2 | 838 x 2 | 838 x 2 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 3.0 x 4 | 4.0 x 2 + 3.0 x 2 | 5.4 x 2 + 3.0 x 2 | 5.4 x 2 + 4.0 x 2 | 5.4 x 4 | 6.5 x 2 + 5.4 x 2 | 6.5 x 4 | |
| Fan Unit | Motor Output | kW | 1.0 x 2 | 1.0 x 2 | 1.0 x 3 | 1.0 x 3 | 1.0 x 4 | 1.0 x 4 | 1.0 x 4 | |
| | Air Volume | cfm | 7,480 x 2 | 7,480 x 2 | 9,760 + 7,480 | 9,760 + 7,480 | 9,760 x 2 | 10,080 + 9,760 | 10,080 x 2 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | 25.4 x 2 | 25.4 x 2 | 25.4 x 2 | 25.4 x 2 | 25.4 x 2 | 25.4 x 2 | 25.4 x 2 | 25.4 x 2 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 20 + 20 | 23 + 20 | 25 + 20 | 25 + 23 | 25 + 25 | 31 + 25 | 31 + 31 |
| | | Recommended Fuse Size | A | 25 + 25 | 25 + 25 | 30 + 25 | 30 + 25 | 30 + 30 | 35 + 30 | 35 + 35 |
| | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-3/8 | 1-5/8 |
| Liquid Side (Main Pipe) (Flare) | | in | 5/8 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 7/8 | |
| Balance Pipe (Flare) | | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | |
| Maximum Number of Connected Indoor Units | | | 34 | 38 | 42 | 46 | 50 | 55 | 60 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | |
| Sound Pressure Level Cooling / Heating | dB(A) | | 64/64 | 64/64.5 | 65.5/66 | 65.5/66.5 | 66/67 | 66.5/67.5 | 67/68 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.
²The source voltage must not fluctuate more than ±10%.
³Only for outdoor unit.
⁴IEER: Integrated Energy Efficiency Ratio.
⁵COP: Coefficient of Performance.
⁶The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
⁷Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
⁸In 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 – 240 type
Equivalent piping length
50 ft, Height difference: 0 ft

Heat Pump Outdoor Unit (MMYH) 460V-3-60



| Standard Model (Single Unit) | | | | AP360HT6P-UL | AP384HT6P-UL | AP408HT6P-UL | AP432HT6P-UL | AP456HT6P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------|
| Outdoor Unit Model Name (MMY) | | | | 30 | 32 | 34 | 36 | 38 |
| Nominal Tons | | | | MAP1206HT6P-UL | MAP1446HT6P-UL | MAP1446HT6P-UL | MAP1686HT6P-UL | MAP1686HT6P-UL |
| Combination Model (MMY) | | | | MAP1206HT6P-UL | MAP1206HT6P-UL | MAP1206HT6P-UL | MAP1206HT6P-UL | MAP1206HT6P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 360 | 384 | 408 | 432 | 456 | |
| | Rated | kBtu/h | 342 | 366 | 390 | 412 | 434 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 405 | 432 | 459 | 486 | 513 | |
| | Rated | kBtu/h | 386 | 412 | 436 | 462 | 488 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 28.67 | 33.60 | 36.55 | 40.14 | 44.58 |
| | | IEER ⁴ | Btu/W*hr | 22.4 | 21.8 | 21.4 | 21.3 | 20.9 |
| | Heating | Power Consumption ³ | kW | 31.33 | 34.58 | 36.86 | 40.22 | 43.60 |
| | | COP ⁵ | W/W | 3.52 | 3.40 | 3.38 | 3.28 | 3.20 |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 27.32 | 31.47 | 33.58 | 38.35 | 42.06 |
| | | IEER ⁴ | Btu/W*hr | 20.3 | 19.8 | 19.6 | 19.1 | 19.3 |
| | Heating | Power Consumption ³ | kW | 29.40 | 32.52 | 36.34 | 39.15 | 42.27 |
| | | COP ⁵ | W/W | 3.66 | 3.55 | 3.37 | 3.32 | 3.26 |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 x 3 | 63.0 + 47.6 x 2 | 63.0 x 2 + 47.6 | 63.0 x 2 + 47.6 | 63.0 x 2 + 47.6 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 684 x 3 | 838 + 684 x 2 | 838 x 2 + 684 | 838 x 2 + 684 | 838 x 2 + 684 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 4.0 x 6 | 5.4 x 2 + 4.0 x 4 | 5.4 x 4 + 4.0 x 2 | 6.5 x 2 + 5.4 x 2 + 4.0 x 2 | 6.5 x 4 + 4.0 x 2 | |
| Fan Unit | Motor Output | kW | 1.0 x 3 | 1.0 x 4 | 1.0 x 5 | 1.0 x 5 | 1.0 x 5 | |
| | Air Volume | cfm | 7,480 x 3 | 9,760 + 7,480 x 2 | 9,760 x 2 + 7,480 | 10,080 + 9,760 + 7,480 | 10,080 x 2 + 7,480 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | | 25.4 x 3 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 23 + 23 + 23 | 25 + 23 + 23 | 25 + 25 + 23 | 31 + 25 + 23 | 31 + 31 + 23 |
| | | Recommended Fuse Size | A | 25 + 25 + 25 | 30 + 25 + 25 | 30 + 30 + 25 | 35 + 30 + 25 | 35 + 35 + 25 |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 1-5/8 | 1-5/8 | 1-5/8 | 1-5/8 | 1-5/8 |
| | | Liquid Side (Main Pipe) (Flare) | in | 7/8 | 7/8 | 7/8 | 7/8 | 7/8 |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | | | | | | | | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | 14-122 | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | -13-60 | |
| Maximum Number of Connected Indoor Units | | | 63 | 64 | 64 | 64 | 64 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 50-150% | 50-150% | 50-150% | 50-150% | 50-150% | |
| Sound Pressure Level Cooling / Heating | dB(A) | | 66/67 | 66.5/67.5 | 67.5/68.5 | 68/69 | 68/69 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.
²The source voltage must not fluctuate more than ±10%.
³Only for outdoor unit.
⁴IEER: Integrated Energy Efficiency Ratio.
⁵COP: Coefficient of Performance.
⁶The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
⁷Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
⁸In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor units is reduced.



The standard pipe
072 type – 120 type
Equivalent piping length
25 ft, Height difference: 0 ft

Heat Pump Outdoor Unit (MMYH) 460V-3-60



| Space Saving Model (Combination) | | | | AP192S6HT6P-UL | AP240S6HT6P-UL | AP288S6HT6P-UL | AP408S6HT6P-UL |
|--|----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------|
| Outdoor Unit Model Name (MMY) | | | | 16 | 20 | 24 | 34 |
| Nominal Tons | | | | MAP1206HT6P-UL | MAP1206HT6P-UL | MAP1686HT6P-UL | MAP1686HT6P-UL |
| Combination Model (MMY) | | | | MAP0726HT6P-UL | MAP1206HT6P-UL | MAP1206HT6P-UL | MAP1206HT6P-UL |
| | | | | - | - | - | MAP1206HT6P-UL |
| Cooling Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 192 | 240 | 288 | 408 | |
| | Rated | kBtu/h | 184 | 230 | 276 | 390 | |
| Heating Capacity ¹ (With Non-Ducted Indoor Units / Ducted) | Nominal | kBtu/h | 216 | 270 | 324 | 459 | |
| | Rated | kBtu/h | 206 | 256 | 308 | 436 | |
| With Non-Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 14.19 | 19.29 | 24.65 | 37.29 |
| | | IEER ⁴ | Btu/W*hr | 25.1 | 23.6 | 22.2 | 21.0 |
| | Heating | Power Consumption ³ | kW | 14.87 | 19.74 | 25.12 | 37.77 |
| | | COP ⁵ | W/W | 3.95 | 3.70 | 3.50 | 3.30 |
| With Ducted Indoor Units Electrical Characteristics | Power Supply ² | | | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | Cooling | Power Consumption ³ | kW | 13.87 | 17.61 | 23.09 | 34.87 |
| | | IEER ⁴ | Btu/W*hr | 19.9 | 30.3 | 19.6 | 19.3 |
| | Heating | Power Consumption ³ | kW | 14.31 | 17.90 | 22.64 | 36.90 |
| | | COP ⁵ | W/W | 3.83 | 3.90 | 3.76 | 3.32 |
| External Dimensions | Height | in | 72.9 | 72.9 | 72.9 | 72.9 | |
| | Width | in | 47.6 + 39.0 | 47.6 x 2 | 63.0 + 47.6 | 63.0 + 47.6 x 2 | |
| | Depth | in | 30.7 | 30.7 | 30.7 | 30.7 | |
| Total Weight | Unit | lb | 684 + 574 | 684 x 2 | 838 + 684 | 838 + 684 x 2 | |
| Compressor | Type | | Hermetic Twin Rotary Compressor | |
| | Motor Output | kW | 4.0 x 2 + 2.1 x 2 | 4.0 x 4 | 6.5 x 2 + 4.0 x 2 | 6.5 x 2 + 4.0 x 4 | |
| Fan Unit | Motor Output | kW | 1.0 x 2 | 1.0 x 2 | 1.0 x 3 | 1.0 x 4 | |
| | Air Volume | cfm | 7,480 + 6,700 | 7,480 x 2 | 10,080 + 7,480 | 10,080 + 7,480 x 2 | |
| | Maximum External Static Pressure | in WG | 0.16 | 0.16 | 0.16 | 0.16 | |
| Refrigerant ⁶ (Charged Refrigerant Amount) | lb | | 25.4 x 2 | 25.4 x 2 | 25.4 x 2 | 25.4 x 3 | |
| Electrical Specifications | Unit | MCA ⁷ | A | 23 + 12.9 | 23 + 23 | 31 + 23 | 31 + 23 + 23 |
| | | Recommended Fuse Size | A | 25 + 20 | 25 + 25 | 35 + 25 | 35 + 25 + 25 |
| Refrigerant Piping | Connecting Port Diameter | Gas Side (Main Pipe) (Braze) | in | 1-1/8 | 1-3/8 | 1-3/8 | 1-5/8 |
| | | Liquid Side (Main Pipe) (Flare) | in | 5/8 | 3/4 | 3/4 | 7/8 |
| | | Balance Pipe (Flare) | in | 3/8 | 3/8 | 3/8 | 3/8 |
| | | | | | | | |
| Operation Temperature Range | Cooling | ° F DB | 14-122 | 14-122 | 14-122 | 14-122 | |
| | Heating | ° F WB | -13-60 | -13-60 | -13-60 | -13-60 | |
| Maximum Number of Connected Indoor Units | | | 34 | 42 | 50 | 64 | |
| Maximum Capacity of Combined Indoor Units ⁸ | | | 80-150% | 80-150% | 80-150% | 80-150% | |
| Sound Pressure Level Cooling / Heating | dB(A) | | 62.5/63.5 | 64/65 | 66/67 | 67/68 | |

¹Rated conditions:
Cooling: Indoor 80° F dry bulb / 67° F wet bulb, Outdoor 95° F dry bulb.
Heating: Indoor 70° F dry bulb, Outdoor 47° F dry bulb / 43° F wet bulb.
²The source voltage must not fluctuate more than ±10%.
³Only for outdoor unit.
⁴IEER: Integrated Energy Efficiency Ratio.
⁵COP: Coefficient of Performance.
⁶The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.
⁷Select wire size based on the larger value of MCA. MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).
⁸In 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 – 240 type
Equivalent piping length
50 ft, Height difference: 0 ft

Flow Selector and Branching Joints

Heat Recovery Flow Selectors

| Model Name | RBM-Y0383FUL | RBM-Y0613FUL | RBM-Y0963FUL | RBM-Y0384FUL | RBM-Y0614FUL | RBM-Y0964FUL | RBM-Y0611F4PUL | RBM-Y0611F6PUL |
|---|---|----------------|------------------|---|--------------|--|----------------|----------------|
| | Single Port Applications where the indoor unit is less than 49 ft. from the flow selector. | | | Single Port Long Applications where the indoor unit is less than 164 ft. from the flow selector. | | Multi-port** Multiple ports which optimizes the piping length between port and indoor unit. | | |
| Appearance | | | | | | | | |
| Connectable Indoor Unit Capacity (kBtu/H) | Below 38 | 38 to below 61 | 61 to 96 or less | Below 38 | 38 to 61 | 61 to 96 | 61 or less | 61 or less |
| Connectable indoor units for each port* | 5 | 8 | 8 | 5 | 8 | 8 | 10 | 10 |

*Only group operation is possible with 1 (or 2) remote controller(s)

**Multi-port flow selector box requires separate power supply
Connection cable kit: RBC-CBK15FE

Heat Recovery Branching Joints

| Model Name | RBM-BY55FUL | RBM-BY105FUL | RBM-BY205FUL | RBM-BY305FUL | 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-HY2043UL | 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



VRF



Indoor Units

We offer a variety of indoor options to fit every need, space and layout. But no matter which you choose, you'll be met with high comfort and quiet operation.

VRF Indoor Units Overview



| Cooling Capacity kBtu/h (Ton) | Non-Ducted Models | | | | | |
|----------------------------------|----------------------------|---------------------------|--------------|--------------|-----------------------------|----------------------------|
| | Standard 4-Way Cassette | Compact 4-Way Cassette | High Wall | Underceiling | Floor Console (Recessed) | Floor Console (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 kBtu/h (Ton) | Ducted Models | | | | | |
|----------------------------------|---------------|----------------------|--------------------|--------------|-------------|--------------|
| | Slim Ducted | Medium Static Ducted | High Static Ducted | Vertical AHU | Outside Air | Rooftop Unit |
| 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) | | | • | | • | |

4-Way Cassette



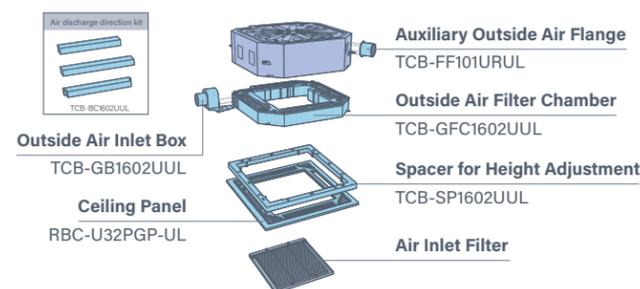
MMU-AP***4HPUL

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

| Model Name (MMU-) | | AP0074HPUL | AP0094HPUL | AP0124HPUL | AP0154HPUL | AP0184HPUL | AP0244HPUL | AP0304HPUL | AP0364HPUL | AP0424HPUL | AP0484HPUL | AP0544HPUL | |
|--|--------------------------------------|------------|---|---|---|---|---|---|---|---|---|---|--------------------------------|
| Cooling Capacity | | 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 | | kBtu/h | 8.5 | 10.5 | 13.5 | 17.0 | 20.0 | 27.0 | 34.0 | 40.0 | 47.5 | 54.0 | 60.0 |
| Electrical Characteristics | Power Supply | | 230V (208/230V), 1-Phase, 60Hz | 230V (208/230V), 1-Phase, 60Hz |
| | Power Consumption | kW | 0.021 | 0.021 | 0.023 | 0.026 | 0.026 | 0.036 | 0.043 | 0.088 | 0.112 | 0.112 | 0.112 |
| Appearance | Main Unit | | Zinc Hot Dipping Steel Plate | Zinc Hot Dipping Steel Plate |
| | Ceiling Panel | | White (2.5GY 9.0/9.5) | White (2.5GY 9.0/9.5) |
| External Dimensions Main Unit (Ceiling Panel)* | Height | in | 10.1 (1.2) | 10.1 (1.2) | 10.1 (1.2) | 10.1 (1.2) | 10.1 (1.2) | 10.1 (1.2) | 10.1 (1.2) | 12.6 (1.2) | 12.6 (1.2) | 12.6 (1.2) | 12.6 (1.2) |
| | Width | in | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) |
| | Depth | in | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) | 33.1 (37.4) |
| Total Weight (Ceiling Panel)* | | lb | 42 (10) | 42 (10) | 46 (10) | 46 (10) | 48 (10) | 48 (10) | 59 (10) | 59 (10) | 60 (10) | 60 (10) | |
| Fan Unit | Standard Air Flow (High / Mid / Low) | cfm | 470/430/400 | 470/430/400 | 550/490/460 | 550/480/440 | 550/480/440 | 670/540/490 | 730/630/510 | 1160/840/630 | 1250/840/670 | 1250/840/670 | 1250/890/720 |
| | Motor Output | W | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 150 | 150 | 150 | 150 |
| | Motor Type | | DC | DC |
| | Gas Side | in | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| Connecting Pipe | Liquid Side | in | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | |
| | Drain Port (Nominal Dia.) | in | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | |
| | | | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | | | | |
| Sound Pressure Level (High / Mid / Low) ¹ | | dB(A) | 32.5/30.5/29.0 | 32.5/30.5/29.0 | 34.0/31.5/29.5 | 35/33/31 | 35/33/31 | 38/33/31 | 41.0/36.5/34.0 | 46.0/40.5/36.5 | 48.5/40.5/37.5 | 48.5/40.5/37.5 | 48.5/40.5/33 |

*Figures in parentheses are for ceiling panels.
¹The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise.

Options



Required Parts



Ceiling Panel
RBC-U32PGP-UL

Compact 4-Way Cassette



MMU-AP***1MH2UL

- Perfect for grid-system ceiling
- Matches standard architectural modules—less need to cut 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
- The built-in condensate lift is up to 24.7 inches

| Model Name (MMU-) | | AP0071MH2UL | AP0091MH2UL | AP0121MH2UL | AP0151MH2UL | AP0181MH2UL | |
|--|--------------------------------------|-------------|--|--|--|--|--|
| Cooling Capacity | | kBtu/h | 7.5 | 9.5 | 12.0 | 15.4 | 18.0 |
| Sensible Cooling Capacity | | kBtu/h | 5.8 | 6.7 | 8.3 | 10.6 | 11.5 |
| Heating Capacity | | kBtu/h | 8.5 | 10.5 | 13.5 | 17.0 | 20.0 |
| Electrical Characteristics | Power Supply | | 230V (208/230V), 1-Phase, 60Hz |
| | Power Consumption | kW | 0.034 | 0.036 | 0.038 | 0.041 | 0.052 |
| Appearance | | | Zinc Hot Dipping Steel Plate |
| External Dimensions Main Unit (Ceiling Panel)* | Height | in | 10.6 (1.1) | 10.6 (1.1) | 10.6 (1.1) | 10.6 (1.1) | 10.6 (1.1) |
| | Width | in | 22.6 (27.6) | 22.6 (27.6) | 22.6 (27.6) | 22.6 (27.6) | 22.6 (27.6) |
| | Depth | in | 22.6 (27.6) | 22.6 (27.6) | 22.6 (27.6) | 22.6 (27.6) | 22.6 (27.6) |
| Total Weight (Ceiling Panel)* | | lb | 35 (7) | 35 (7) | 35 (7) | 35 (7) | 35 (7) |
| Fan Unit | Standard Air Flow (High / Mid / Low) | cfm | 320/270/220 | 330/280/220 | 330/300/240 | 390/330/280 | 450/380/310 |
| | Motor Output | W | 60 | 60 | 60 | 60 | 60 |
| | Motor Type | | DC | DC | DC | DC | DC |
| | Gas Side | in | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 |
| Connecting Pipe | Liquid Side | in | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| | Drain Port (Nominal Dia.) | in | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) |
| Sound Pressure Level (High / Mid / Low) ¹ | | dB(A) | 38.5/35.0/31.0 | 40.0/35.5/31.0 | 40/36/32 | 42.5/37.5/33.0 | 46.5/41.5/36.0 |

*Figures in parentheses are for ceiling panels.
¹The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise.

Required Parts



Ceiling Panel
RBC-UM11PG(W)UL

High Wall



MMK-AP***7HPUL

- 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-) | | AP0077HPUL | AP0097HPUL | AP0127HPUL | AP0157HPUL | AP0187HPUL | AP0247HPUL |
|--|--------------------------------------|---|------------|---|------------|---|------------|
| Cooling Capacity | kBtu/h | 7.5 | 9.5 | 12.0 | 15.4 | 18.0 | 24.0 |
| Sensible Cooling Capacity | kBtu/h | 5.6 | 7.1 | 9.0 | 11.6 | 13.5 | 18.0 |
| Heating Capacity | kBtu/h | 8.5 | 10.5 | 13.5 | 17.0 | 20.0 | 27.0 |
| Electrical Characteristics | Power Supply | 230V (208/230V), 1-Phase, 60Hz | | 230V (208/230V), 1-Phase, 60Hz | | 230V (208/230V), 1-Phase, 60Hz | |
| | Power Consumption | 0.015 | | 0.016 | | 0.017 | |
| Appearance | | Munsell 2.5GY 9.0/0.5 | | Munsell 2.5GY 9.0/0.5 | | Munsell 2.5GY 9.0/0.5 | |
| External Dimensions Main Unit | Height | in 11.6 | | in 11.6 | | in 12.6 | |
| | Width | in 31.5 | | in 31.5 | | in 41.4 | |
| | Depth | in 9.1 | | in 9.1 | | in 9.9 | |
| Total Weight | lb | 27 | | 27 | | 36 | |
| Fan Unit | Standard Air Flow (High / Mid / Low) | cfm 283/226/159 | | cfm 300/232/159 | | cfm 318/241/159 | |
| | Motor Output | W 30 | | W 30 | | W 30 | |
| | Motor Type | DC | | DC | | DC | |
| Connecting Pipe | Gas Side | in 3/8 | | in 3/8 | | in 5/8 | |
| | Liquid Side | in 1/4 | | in 1/4 | | in 3/8 | |
| | Drain Port (Nominal Dia.) | in VP16 (Polyvinyl Chloride Tube: Dia. 0.87 Internal Dia. 0.63) | | in VP16 (Polyvinyl Chloride Tube: Dia. 0.87 Internal Dia. 0.63) | | in VP16 (Polyvinyl Chloride Tube: Dia. 0.87 Internal Dia. 0.63) | |
| Sound Pressure Level (High / Mid / Low) ¹ | dB(A) | 35/30/27 | | 36/31/27 | | 37/32/27 | |

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

Required Parts



Wireless Controller
(Included)

Underceiling



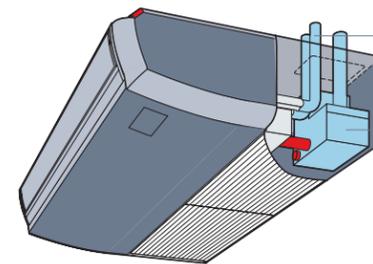
MMC-AP***8HPUL

- 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-) | | AP0188HPUL | AP0248HPUL | AP0308HPUL | AP0368HPUL | AP0488HPUL | |
|--|--------------------------------------|--|------------|--|------------|--|--|
| Cooling Capacity | 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 | kBtu/h | 20.0 | 27.0 | 34.0 | 40.5 | 54.0 | |
| Electrical Characteristics | Power Supply | 230V (208/230V), 1-Phase, 60Hz | | 230V (208/230V), 1-Phase, 60Hz | | 230V (208/230V), 1-Phase, 60Hz | |
| | Power Consumption | 0.034 | | 0.067 | | 0.083 | |
| Appearance | | Munsell N9.1 | | Munsell N9.1 | | Munsell N9.1 | |
| External Dimensions Main Unit | Height | in 9.3 | | in 9.3 | | in 9.3 | |
| | Width | in 37.5 | | in 50.0 | | in 62.5 | |
| | Depth | in 27.2 | | in 27.2 | | in 27.2 | |
| Total Weight | lb | 58 | | 69 | | 89 | |
| Fan Unit | Standard Air Flow (High / Mid / Low) | cfm 565/424/318 | | cfm 848/600/441 | | cfm 848/600/441 | |
| | Motor Output | W 94 | | W 94 | | W 139 | |
| | Motor Type | DC | | DC | | DC | |
| Connecting Pipe | Gas Side | in 1/2 | | in 5/8 | | in 5/8 | |
| | Liquid Side | in 1/4 | | in 3/8 | | in 3/8 | |
| | Drain Port (Nominal Dia.) | in VP20 (Polyvinyl Chloride Tube: Dia. 1 Internal Dia. 0.79) | | in VP20 (Polyvinyl Chloride Tube: Dia. 1 Internal Dia. 0.79) | | in VP20 (Polyvinyl Chloride Tube: Dia. 1 Internal Dia. 0.79) | |
| Sound Pressure Level (High / Mid / Low) ¹ | dB(A) | 38/35/32 | | 43/36/33 | | 43/36/33 | |

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

Options



Elbow Piping Kit

TCB-KP14CPE
TCB-KP24CPE

Drain Pump Kit

TCB-DP31CE



Auxiliary Outside Air Flange
TCB-FF101URUL

Floor Console (Recessed)



MML-AP***4BH2UL

- Installed inside a wall or custom-built cabinet to match interior space design
- Optional Condensate Drain Kit available

| Model Name (MML-) | | | AP0074BH2UL | AP0094BH2UL | AP0124BH2UL | AP0154BH2UL | AP0184BH2UL | AP0244BH2UL | |
|--|--------------------------------------|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Cooling Capacity | | | kBtu/h | 7.5 | 9.5 | 12.0 | 15.4 | 18.0 | 24.0 |
| Sensible Cooling Capacity | | | kBtu/h | 4.7 | 5.4 | 7.3 | 9.5 | 11.2 | 15.2 |
| Heating Capacity | | | kBtu/h | 8.5 | 10.5 | 13.5 | 17.0 | 20.0 | 27.0 |
| Electrical Characteristics | Power Supply | | | 230V (208/230V), 1-Phase, 60Hz |
| | Power Consumption (208V) | | kW | 0.047 | 0.047 | 0.047 | 0.095 | 0.095 | 0.104 |
| | Power Consumption (230V) | | kW | 0.056 | 0.056 | 0.056 | 0.114 | 0.114 | 0.120 |
| Appearance | | | | Zinc Hot Dipping Steel Plate |
| External Dimensions Main Unit | Height | in | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | |
| | Width | in | 29.3 | 29.3 | 29.3 | 41.1 | 41.1 | 41.1 | |
| | Depth | in | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | |
| Total Weight | | | lb | 50.7 | 50.7 | 50.7 | 68.3 | 68.3 | 68.3 |
| Fan Unit | Standard Air Flow (High / Mid / Low) | | cfm | 270/240/180 | 270/240/180 | 270/240/180 | 440/350/290 | 440/350/290 | 560/470/380 |
| | Motor Output | | W | 19 | 19 | 19 | 70 | 70 | 70 |
| | Motor Type | | | DC | DC | DC | DC | DC | DC |
| Connecting Pipe | Gas Side | in | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 5/8 | |
| | Liquid Side | in | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3/8 | |
| | Drain Port (Nominal Dia.) | in | 0.8" (Polyvinyl Chloride Tube) | |
| Sound Pressure Level (High / Mid / Low) ¹ | 208V | dB(A) | 40/36/33 | 40/36/33 | 40/36/33 | 40/36/33 | 40/36/33 | 47/42/35 | |
| | 230V | dB(A) | 42/39/36 | 42/39/36 | 42/39/36 | 42/39/36 | 42/39/36 | 49/44/37 | |

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

Floor Console (Exposed)



MML-AP***4H2UL

- Installed flush against a wall typically under a window or in a room with an exterior wall
- Optional Condensate Drain Kit available

| Model Name (MML-) | | | AP0074H2UL | AP0094H2UL | AP0124H2UL | AP0154H2UL | AP0184H2UL | AP0244H2UL | |
|--|--------------------------------------|-------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Cooling Capacity | | | kBtu/h | 7.5 | 9.5 | 12.0 | 15.4 | 18.0 | 24.0 |
| Sensible Cooling Capacity | | | kBtu/h | 4.7 | 5.4 | 7.3 | 9.5 | 11.2 | 15.2 |
| Heating Capacity | | | kBtu/h | 8.5 | 10.5 | 13.5 | 17.0 | 20.0 | 27.0 |
| Electrical Characteristics | Power Supply | | | 230V (208/230V), 1-Phase, 60Hz |
| | Power Consumption (208V) | | kW | 0.049 | 0.049 | 0.080 | 0.080 | 0.098 | 0.098 |
| | Power Consumption (230V) | | kW | 0.058 | 0.058 | 0.093 | 0.093 | 0.113 | 0.113 |
| Appearance | | | | Silky Shade (Munsell 1Y 8.5/9.5) |
| External Dimensions Main Unit | Height | in | 24.8 | 24.8 | 24.8 | 24.8 | 24.8 | 24.8 | |
| | Width | in | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | |
| | Depth | in | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | |
| Total Weight | | | lb | 81.6 | 81.6 | 81.6 | 81.6 | 88.2 | 88.2 |
| Fan Unit | Standard Air Flow (High / Mid / Low) | | cfm | 280/250/210 | 280/250/210 | 530/460/380 | 530/460/380 | 640/550/460 | 640/550/460 |
| | Motor Output | | W | 19 | 19 | 45 | 45 | 70 | 70 |
| | Motor Type | | | DC | DC | DC | DC | DC | DC |
| Connecting Pipe | Gas Side | in | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 5/8 | |
| | Liquid Side | in | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3/8 | |
| | Drain Port (Nominal Dia.) | in | 0.8" (Polyvinyl Chloride Tube) | 0.8" (Polyvinyl Chloride Tube) | 0.8" (Polyvinyl Chloride Tube) | 0.8" (Polyvinyl Chloride Tube) | 0.8" (Polyvinyl Chloride Tube) | 0.8" (Polyvinyl Chloride Tube) | |
| Sound Pressure Level (High / Mid / Low) ¹ | 208V | dB(A) | 39/38/35 | 39/38/35 | 47/44/40 | 47/44/40 | 51/46/41 | 51/46/41 | |
| | 230V | dB(A) | 42/40/38 | 42/40/38 | 50/46/42 | 50/46/42 | 53/48/43 | 53/48/43 | |

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

Slim Ducted (Low Profile)



MMD-AP***4SPH2UL

- 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
- Includes drain pump
- No filters provided with the unit
- Can be used with any style of air diffuser

| Model Name (MMD-) | | | AP0074SPH2UL | AP0094SPH2UL | AP0124SPH2UL | AP0154SPH2UL | AP0184SPH2UL | | |
|--|---|-------|--|--|--|--|--|--------------------------------|------------------------------|
| Cooling Capacity | | | kBtu/h | 7.5 | 9.5 | 12.0 | 15.4 | 18.0 | |
| Sensible Cooling Capacity | | | kBtu/h | 6.1 | 7.1 | 8.3 | 10.9 | 12.5 | |
| Heating Capacity | | | kBtu/h | 8.5 | 10.5 | 13.5 | 17.0 | 20.0 | |
| Electrical Characteristics | Power Supply | | 230V (208/230V), 1-Phase, 60Hz | 230V (208/230V), 1-Phase, 60Hz | |
| | Power Consumption | kW | 0.043 | 0.043 | 0.048 | 0.061 | 0.071 | | |
| Appearance | | | Zinc Hot Dipping Steel Plate | | | | | Zinc Hot Dipping Steel Plate | Zinc Hot Dipping Steel Plate |
| External Dimensions Main Unit | Height | in | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | 8.3 | |
| | Width | in | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | |
| | Depth | in | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | |
| Total Weight | | | lb | 49 | 49 | 49 | 51 | 51 | |
| Fan Unit | Standard Air Flow (High / Mid / Low) | cfm | 318/276/235 | 318/276/235 | 353/306/265 | 406/353/306 | 459/400/341 | | |
| | Motor Output | W | 60 | 60 | 60 | 60 | 60 | | |
| | Motor Type | | DC | DC | DC | DC | DC | | |
| | External Static Pressure (Standard) | in WG | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | | |
| | External Static Pressure (Max) ¹ | in WG | 0.14-0.20 | 0.14-0.20 | 0.14-0.20 | 0.14-0.20 | 0.14-0.20 | | |
| Connecting Pipe | Gas Side | in | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | | |
| | Liquid Side | in | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | | |
| | Drain Port (Nominal Dia.) | in | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | | |
| Sound Pressure Level (High / Mid / Low) ² | Bottom Return | dB(A) | 39/36/33 | 39/36/33 | 41/38/35 | 41.0/38.5/35.0 | 44.5/41.0/37.5 | | |
| | Rear Return | dB(A) | 31/30/28 | 31/30/28 | 32.5/31.5/28.5 | 34.5/33.5/30.0 | 37/34/32 | | |

¹Without filter
²The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise.

Options



Auxiliary Outside Air Flange
TCB-FF101URUL

Concealed Ducted (Medium Static)



MMD-AP***6BHPUL

- 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

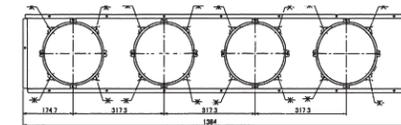
| Model Name (MMD-) | | | AP0076BHPUL | AP0096BHPUL | AP0126BHPUL | AP0156BHPUL | AP0186BHPUL | AP0216BHPUL | AP0246BHPUL | AP0306BHPUL | AP0366BHPUL | AP0426BHPUL | AP0486BHPUL | AP0546BHPUL | |
|--|--------------------------------------|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cooling Capacity | | | 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 |
| Sensible Cooling Capacity | | | kBtu/h | 5.6 | 7.1 | 9.0 | 11.6 | 13.5 | 15.8 | 18.0 | 22.5 | 27.0 | 31.5 | 36.0 | 40.5 |
| Heating Capacity | | | 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 |
| Electrical Characteristics | Power Supply | | 230V (208/230V) 1-Phase, 60Hz |
| | Power Consumption | kW | 0.07 | 0.09 | 0.09 | 0.13 | 0.14 | 0.21 | 0.21 | 0.22 | 0.33 | 0.33 | 0.34 | 0.34 | 0.34 |
| Appearance | | | Zinc Hot Dipping Steel Plate | | | | | | | | | | | | |
| External Dimensions Main Unit | Height | in | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| | Width | in | 27.6 | 27.6 | 27.6 | 39.4 | 39.4 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 |
| | Depth | in | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 |
| Total Weight | | | lb | 56 | 56 | 56 | 73 | 73 | 93 | 93 | 93 | 93 | 93 | 93 | 93 |
| Fan Unit | Standard Air Flow (High / Mid / Low) | cfm | 318/265/212 | 395/329/263 | 395/329/263 | 589/489/394 | 624/489/394 | 706/583/512 | 706/583/512 | 742/653/547 | 1,130/954/812 | 1,130/954/812 | 1,177/1,024/883 | 1,177/1,024/883 | |
| | Motor Output | W | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | |
| | Motor Type | | DC | |
| | External Static Pressure (Default) | in WG | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | |
| | External Static Pressure | in WG | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | |
| Connecting Pipe | Gas Side | in | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | |
| | Liquid Side | in | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | |
| | Drain Port (Nominal Dia.) | in | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1) |
| Sound Pressure Level (High / Mid / Low) ¹ | | | dB(A) | 36/31/27 | 37/32/29 | 37/32/29 | 38/35/29 | 39/35/29 | 41/36/33 | 41/36/33 | 41/36/33 | 45/39/36 | 45/39/36 | 46/40/37 | 46/40/37 |

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

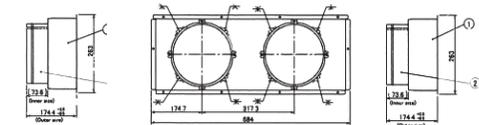
Options



Auxiliary Outside Air Flange
TCB-FF101URUL



Zoning Duct Flange
TCB-SF160C6BPE



Zoning Duct Flange
TCB-SF80C6BPE TCB-SF56C6BPE

High Static Ducted



MMD-AP***HPUL

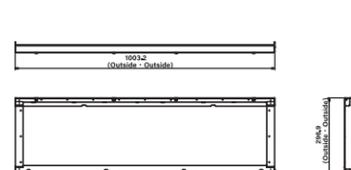
- Compatible with external static pressures up to 1.0 inches WG
- Filters provided with the unit (Except 6 & 8 ton)
- Switchable static pressure
- Built-in condensate lift (24.3") (Except 6 & 8 ton)

| Model Name (MMD-) | | AP0246HPUL | AP0306HPUL | AP0366HPUL | AP0486HPUL | AP0546HPUL | AP0726HP-UL | AP0966HP-UL | |
|--|---|------------|--|--|--|--|--|--|--|
| Cooling Capacity | | 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 | 60.0 | 80.6 |
| Heating Capacity | | kBtu/h | 27.0 | 34.0 | 40.0 | 54.0 | 60.0 | 81.0 | 108.0 |
| Electrical Characteristics | Power Supply | | 230V (208/230V), 1-Phase, 60Hz |
| | Power Consumption (208V) | kW | 0.255 | 0.295 | 0.35 | 0.385 | 0.435 | 0.54 | 0.79 |
| | Power Consumption (230V) | kW | 0.255 | 0.295 | 0.35 | 0.385 | 0.435 | 0.54 | 0.79 |
| Appearance | | | Zinc Hot Dipping Steel Plate |
| External Dimensions Main Unit | Height | in | 11.8 | 11.8 | 11.8 | 11.8 | 17.6 | 17.6 | |
| | Width | in | 39.4 | 39.4 | 55.2 | 55.2 | 55.1 | 55.1 | |
| | Depth | in | 29.6 | 29.6 | 29.6 | 29.6 | 35.4 | 35.4 | |
| Total Weight | | lb | 80 | 80 | 98 | 98 | 218 | 218 | |
| Fan Unit | Standard Air Flow (High / Mid / Low) | cfm | 706/571/471 | 883/795/706 | 1,130/918/789 | 1,236/1,024/836 | 1,413/1,200/977 | 2,236/1,883/1,471 | 2,825/2,471/2,059 |
| | Motor Output | W | 250 | 250 | 350 | 350 | 350 | 1,000 | 1,000 |
| | Motor Type | | DC |
| | External Static Pressure ¹ Factory Setting (208V/230V) | in WG | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.603 | 0.603 |
| | External Static Pressure 208V ² (High Tap / Mid Tap / Low Tap) | in WG | 0.2-1.0 (7Step) | 0.2-1.0 (7 steps) | 0.2-1.0 (7 steps) |
| | External Static Pressure 230V ² (High Tap / Mid Tap / Low Tap) | in WG | 0.2-1.0 (7Step) | 0.2-1.0 (7 steps) | 0.2-1.0 (7 steps) |
| Connecting Pipe | Gas Side | in | 5/8 | 5/8 | 5/8 | 5/8 | 7/8 | 7/8 | |
| | Liquid Side | in | 3/8 | 3/8 | 3/8 | 3/8 | 1/2 | 1/2 | |
| | Drain Port (Nominal Dia.) | in | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) | VP25 (Polyvinyl Chloride Tube: Dia. 1-1/4 Internal Dia. 1) |
| Sound Pressure Level (High / Mid / Low) ³ | 208V | dB(A) | 45/39/36 | 46/41/37 | 48/42/35 | 49/43/36 | 50/44/38 | 44/40/36 | 46/42/38 |
| | 230V | dB(A) | 45/39/36 | 46/41/37 | 48/42/35 | 49/43/36 | 50/44/38 | 44/40/36 | 46/42/38 |

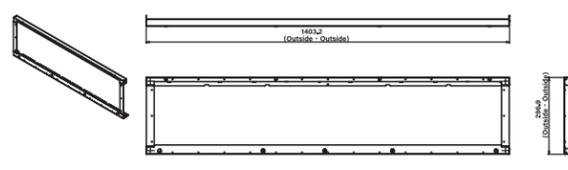
¹The ESP is set by changing the fan motor wire tap.

²The actual values in an operating environment are generally higher than the indicated values due to the contribution from ambient noise.

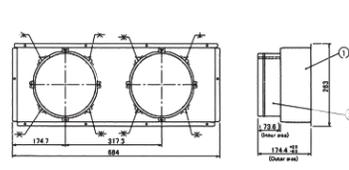
Options



Filter Kit
TCB-LK801D-E



Filter Kit
TCB-LK1401D-E



Zoning Duct Flange
TCB-SF56C6BPE

Vertical Air Handling Unit (AHU)



MMD-AP***VHG2UL

- 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 inch filter rack

| Model Name (MMD-) | | AP0120VHG2UL | AP0180VHG2UL | AP0240VHG2UL | AP0300VHG2UL | AP0360VHG2UL | AP0420VHG2UL | AP0480VHG2UL | AP0600VHG2UL | |
|--|--------------------------------------|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Cooling Capacity | | kBtu/h | 12.0 | 18.0 | 24.0 | 30.0 | 36.0 | 42.0 | 48.0 | 60.0 |
| Sensible Cooling Capacity | | kBtu/h | 9.1 | 13.6 | 17.7 | 22.8 | 26.6 | 31.9 | 35.5 | 44.4 |
| Heating Capacity | | kBtu/h | 13.5 | 20.0 | 27.0 | 34.0 | 40.0 | 45.0 | 54.0 | 67.0 |
| Electrical Characteristics | Power Supply | | 230V (208/230V), 1-Phase, 60Hz |
| | Power Consumption | kW | 0.120 | 0.174 | 0.174 | 0.296 | 0.410 | 0.386 | 0.496 | 0.938 |
| Appearance | | | Grey |
| External Dimensions Main Unit | Height | in | 46.9 | 46.9 | 46.9 | 51.9 | 51.9 | 55.9 | 55.9 | 57.9 |
| | Width | in | 17.7 | 17.7 | 17.7 | 20.2 | 20.2 | 22.2 | 22.2 | 24.2 |
| | Depth | in | 22.3 | 22.3 | 22.3 | 25.3 | 25.3 | 27.3 | 27.3 | 31.3 |
| Total Weight | | lb | 130 | 164 | 164 | 170 | 170 | 200 | 200 | 253 |
| Fan Unit | Standard Air Flow (High / Mid / Low) | 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 |
| | Motor | HP | 1/3 | 1/3 | 1/3 | 1/2 | 1/2 | 3/4 | 3/4 | 1 |
| | Motor Type | | EC |
| | External Static Pressure (Standard) | in WG | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| | External Static Pressure (Max) | in WG | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Connecting Pipe | Gas Side | in | 3/8 | 1/2 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| | Liquid Side | in | 1/4 | 1/4 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | Drain Port (Nominal Dia.) | in | 3/4" FPT |
| Sound Pressure Level (High / Mid / Low) ¹ | | dB(A) | 41/38/37 | 41/39/38 | 41/39/38 | 43/42/40 | 45/44/42 | 46/45/43 | 48/47/45 | 52/51/47 |

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

Optional

| Model Name (MMD-) | | AP0120VHG2UL | AP0180VHG2UL | AP0240VHG2UL | AP0300VHG2UL | AP0360VHG2UL | AP0420VHG2UL | AP0480VHG2UL | AP0600VHG2UL |
|---------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Electrical Heater (208V/240V) | TCB-HT101VDGUL | • | • | • | • | • | • | • | • |
| | TCB-HT301VDGUL | • | • | • | • | • | • | • | • |
| | TCB-HT501VDGUL | • | • | • | • | • | • | • | • |
| | TCB-HT601VDGUL | • | • | • | • | • | • | • | • |
| | TCB-HT801VDGUL | • | • | • | • | • | • | • | • |
| | TCB-HT951VDGUL | • | • | • | • | • | • | • | • |
| Plenum with 2" MERV 8 Filter | TCB-PL2S241VDGUL | • | • | • | | | | | |
| | TCB-PL2S361VDGUL | | | | • | • | | | |
| | TCB-PL2S481VDGUL | | | | | | • | • | |
| | TCB-PL2S601VDGUL | | | | | | | | • |
| Filterbox with 2" MERV 8 Filter | TCB-FB2F241VDGUL | • | • | • | | | | | |
| | TCB-FB2F361VDGUL | | | | • | • | | | |
| | TCB-FB2F481VDGUL | | | | | | • | • | |
| | TCB-FB2F601VDGUL | | | | | | | | • |

Outside Air



MMD-AP***1HF2UL

- 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-) | | | AP0481HF2UL | AP0721HF2UL | AP0961HF2UL |
|--|--------------------------------------|--------|--|--|--|
| Cooling Capacity | | kBtu/h | 48.0 | 72.0 | 96.0 |
| Heating Capacity | | kBtu/h | 30.0 | 47.0 | 59.0 |
| Electrical Characteristics | Power Supply | | 230V (208/230V), 1-Phase, 60Hz | 230V (208/230V), 1-Phase, 60Hz | 230V (208/230V), 1-Phase, 60Hz |
| | Power Consumption (208V) | kW | 0.31 | 0.56 | 0.64 |
| | Power Consumption (230V) | kW | 0.34 | 0.58 | 0.66 |
| External Dimensions Main Unit | Height | in | 19.5 | 19.5 | 19.5 |
| | Width | in | 35.4 | 55 | 55 |
| | Depth | in | 49.8 | 49.8 | 49.8 |
| Total Weight | | lb | 212 | 349 | 349 |
| Fan Unit | Standard Air Flow (High / Mid / Low) | cfm | 636 | 989 | 1237 |
| | Motor Output | W | 160 | 160 x 2 | 160 x 2 |
| | Motor Type | | AC | AC | AC |
| Connecting Pipe | Gas Side | in | 5/8 | 7/8 | 7/8 |
| | Liquid Side | in | 3/8 | 1/2 | 1/2 |
| | Drain Port (Nominal Dia.) | in | 1-1/4 OD: 1.0 ID (Polyvinyl Chloride Tube) | 1-1/4 OD: 1.0 ID (Polyvinyl Chloride Tube) | 1-1/4 OD: 1.0 ID (Polyvinyl Chloride Tube) |
| Sound Pressure Level (High / Mid / Low) ¹ | 208V | dB(A) | 44/43/36 | 47/46/40 | 47/45 (H/L) |
| | 230V | dB(A) | 46/45/42 | 48/47/46 | 50/49 (H/L) |
| Operating Range for SMMS-e | Cooling ² | ° F | 41-115 | 41-115 | 41-115 |
| | Heating ³ | ° F | 23-109 | 23-109 | 23-109 |

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

²When supply air temperature is "setting temperature + 5.4° F" or less. Outside Air unit operates as FAN mode.

³When supply air temperature is "setting temperature - 5.4° F" or over. Outside Air unit operates as FAN mode.

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 | | 208/230V, 1-Phase, 60Hz | 208/230V, 1-Phase, 60Hz | 208/230V, 1-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz | 460V, 3-Phase, 60Hz |
| | MCA | A | 8 | 8 | 11 | 2 | 2 | 3 |
| | MOC | A | 15 | 15 | 15 | 15 | 15 | 15 |
| Appearance | | | Painted Grey | Painted Grey | Painted Grey | Painted Grey | Painted Grey | Painted Grey |
| External Dimensions Main Unit | Height | in | 33-3/8 | 41-3/8 | 41-3/8 | 33-3/8 | 41-3/8 | 41-3/8 |
| | Width | in | 74-3/8 | 74-3/8 | 74-3/8 | 74-3/8 | 74-3/8 | 74-3/8 |
| | Depth | in | 46-5/8 | 46-5/8 | 46-5/8 | 46-5/8 | 46-5/8 | 46-5/8 |
| Total Weight | | lb | 364 | 388 | 401 | 364 | 388 | 401 |
| Fan Unit | Standard Rated Air Flow (Cooling) | cfm | 1,050 | 1,350 | 1,750 | 1,050 | 1,350 | 1,750 |
| | Standard Rated Air Flow (Heating) | cfm | 1,050 | 1,750 | 1,750 | 1,050 | 1,750 | 1,750 |
| | Motor | HP | 1.10 | 1.08 | 1.46 | 1.10 | 1.08 | 1.46 |
| | Motor Type | | EC | EC | EC | EC | EC | EC |
| Connecting Pipe | Gas Side | in | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 | 5/8 |
| | Liquid Side | in | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | Drain Port (Nominal Dia.) | in | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Sound Pressure Level (High / Mid / Low) ¹ | | dB(A) | 76/73/68 | 76/73/66 | 77/73/66 | 76/73/68 | 76/73/66 | 77/73/66 |

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



VRF



Controls and Accessories

Remote Controls



RBC-AMS54E-UL

Wired Remote 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

Remote Controls



BMS-SM1280HTLUL

Smart Manager With Web

The Smart Manager is a line voltage controller mounted on the wall that enables the customer to control and monitor the operation of the VRF system by using an onsite computer.

- List view function allows all indoor units to be displayed on one screen
- Set view functionality to show general indoor settings on main screen
- Advanced operation and master schedule functions with ability to be set on calendar
- Up to four concurrent users can be connected
- Up to 32 user accounts can be programmed with different levels of access (at least one must be administrator level)
- Energy monitoring and report creation functions available
- Thin profile controller and separate power supply unit enables easy installation

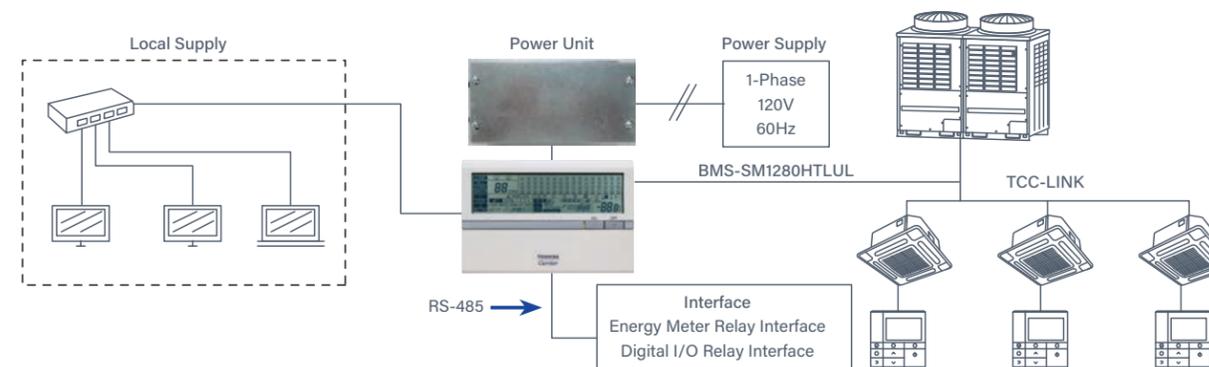


BMS-CT5120UL

Touchscreen Central Controller

The Touchscreen Central Controller is a line voltage controller mounted on the wall with a touch screen LCD display panel. This controller enables the customer to control and monitor the operation of the VRF system.

- Grouping based on floor, unit, area, tenant and level
- Operating Mode, Turning ON / OFF
- Master Scheduler—Weekly, five special days, monthly
- Alarm display with history
- Web browser monitoring and control (for Intranet PC)
- Up to two concurrent users can be connected
- Additional digital input / output device available
- Maximum of 512 indoor units can be connected
- Ability to display language in English, Spanish or French



BMS-CM1281TLUL

Central Remote Control

- Individual control (ON / OFF, operating mode, etc.)
- Manages up to 128 units (max: 2 x 64 indoor units)
- Flexible grouping in zones
- External input / output control (input: ON / OFF signal; output: Error signal)

Additional Remote Controls



RBC-AS41UL

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

Additional Remote Controls



TCB-AX32UL

Stand-Alone Receiver

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

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



TCB-TC41LUL

Remote Sensor

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

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



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

Additional Remote Controls



TCB-1FTH1GUL

24V Thermostat Interface

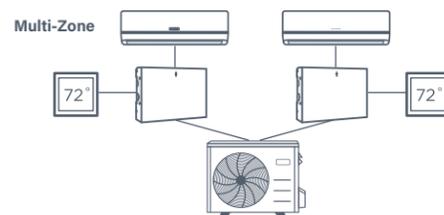
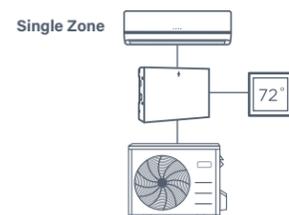
The 24V Interface allows third-party conventional thermostat to communicate and operate Toshiba Carrier VRF indoor fan coil units.

Two Methods of Control

- Inverter control
- Two-stage cooling / heating

Features

- Fan speed control: high, medium and low
- Operating modes: cooling, heating, fan and off



RBC-AX32UW-UL

Integral Receiver

(For 4-Way Cassette)

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

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



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

Network Controls

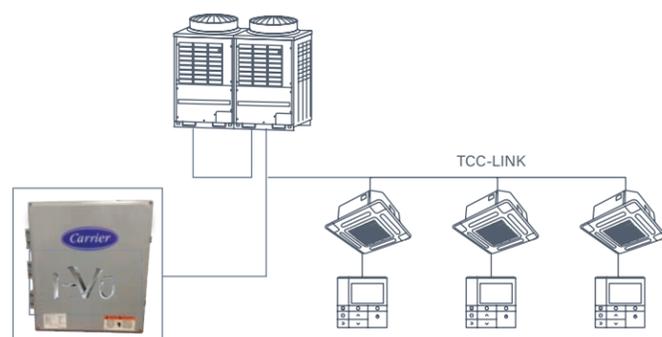


OPN-MTCC

i-Vu® Interface

The i-Vu® Building Automation System brings your system into sharp focus with a 360° view of your building's entire operation. With its ability to communicate with the Toshiba Carrier VRF system, other HVAC systems and ancillary system components, i-Vu gives you a real-time consolidated view of occupant comfort, energy usage and other operating conditions.

- Regardless of the control type or equipment manufacturer, the i-Vu Building Automation System is your connection for seamless, comprehensive and flexible control of all systems in your building
- Easy to install and commission
- Pre-engineered, pre-loaded control programs simplify system set-up and minimize the need for field programming
- Intuitive, graphic-rich i-Vu user interface keeps you connected to your facility from any web-enabled device or locally through a wall-mounted touchscreen
- Unique graphics for individual system components give users total insight and control



Network Controls



BMS-IFBN640TLUL

BACNet® Interface

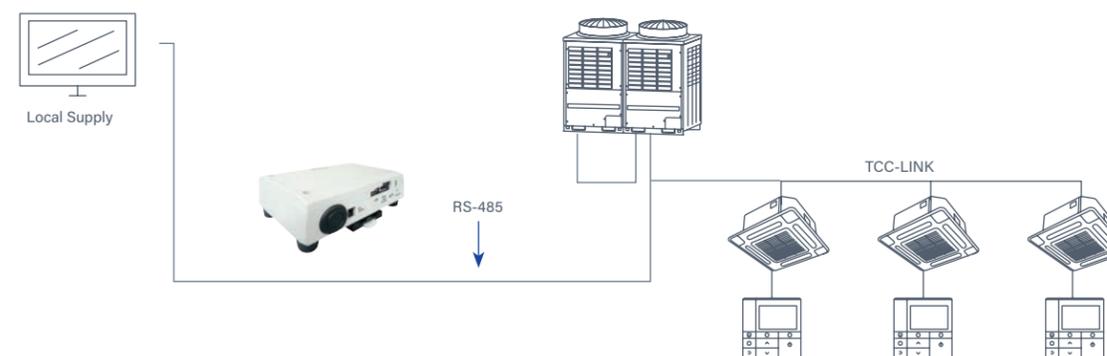
The BACNet Interface is a BACNet controller which enables the communication between the building automation system (BAS) and Toshiba Carrier VRF unit. This allows the customer to control the Toshiba Carrier VRF system from a centralized location. The BACNet system uses object signals to provide the following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



BACNet®: Trademark registration of American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc. Integration done in field by customer.

Network Controls



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

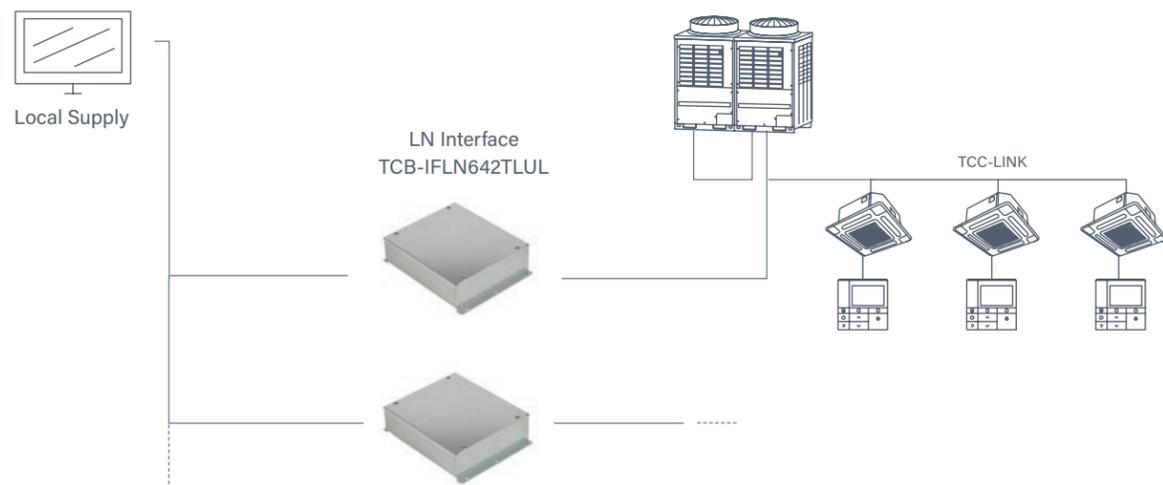
Signals and provides the following functions:

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



Network Controls



TCB-IF**1GUL
RBM-A***1GUL

DX Interface

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

Two Types of Controls

- Return Air (RA) control
- Supply Air (0-10V) control

For Return Air (RA) Control

- Single (normal) coil AHU up to 16 tons
- Split face coil AHU up to 32 tons

For Supply Air (0-10V) Control

- Single (normal) coil AHU up to 16 tons



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 CO2 sensor, motion sensor, etc.
- Individual, group or central control option

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

Benchmark Tools



VRoom Selection Software

The Toshiba Carrier VRoom Selection Tool application has been designed to allow you to easily select VRF systems. It enables engineers to easily design, lay out and prepare VRF systems for quote.

- Automatic software updates
- Sleek drag-and-drop interface
- Table edit features for quick editing of multiple units
- Quick global edits for wired controllers

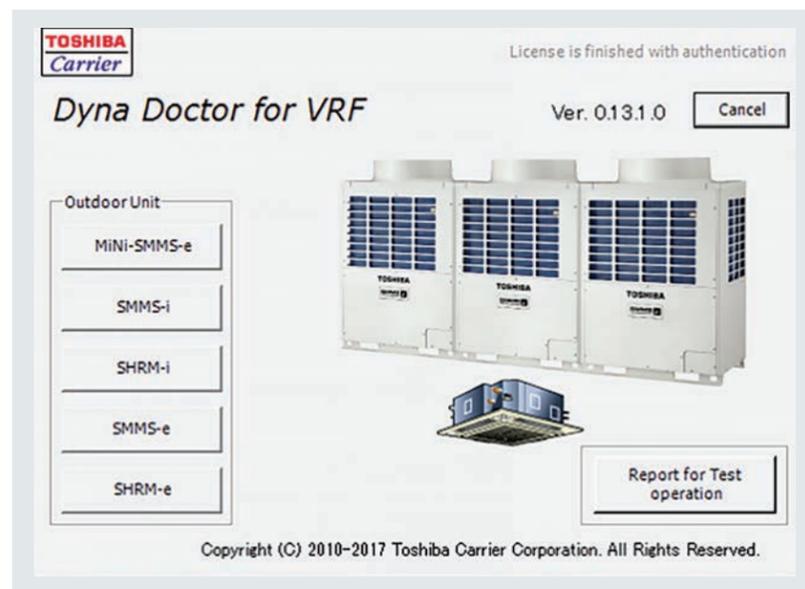
Contact VRoomhelp@carrier.com for assistance and support.



TCB-DK01SS-E

Dyna Doctor

Dyna Doctor is a service tool that provides a graphical view of Toshiba Carrier system operation. Dyna Doctor allows users to run reports and analyze system functionality. Dyna Doctor software can be downloaded for free from hvacpartners.com, but a special connector to communicate with the Toshiba Carrier VRF system is required to use this service tool.



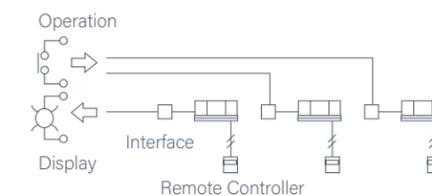
Application Controls



TCB-IFCB-4UL
Size: 7.9 x 6.7 x 2.6 (in.)

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

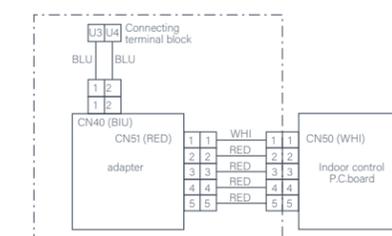
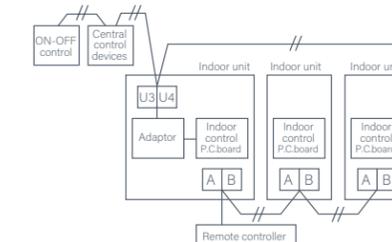
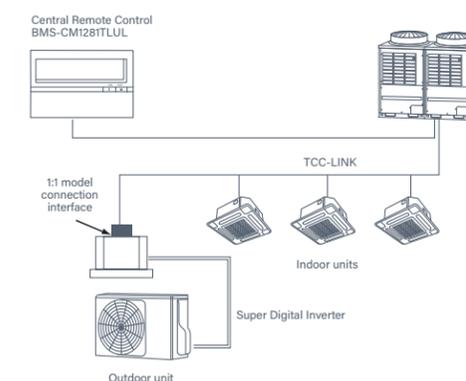


TCB-PCNT31TLUL
Size: 3.3 x 2.0 (in.)
Install optional P.C. board in E-parts of the indoor unit.

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



Application Controls



TCB-PCDM4UL
Size: 2.8 x 3.3 (in.)

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



TCB-PCMO4UL
Size: 2.2 x 2.4 (in.)

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 reduction)

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

Snowfall Fan Control

The outdoor fan will operate to prevent snow buildup



TCB-PCIN4UL
Size: 2.9 x 3.1 (in.)

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

Install the optional P.C. board in the inverter assembly of the outdoor header unit



TOSHIBA

Carrier



Toshiba Carrier VRF

carriervrf.com

Rev. 03/2021 | 01-VRF-018-01



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