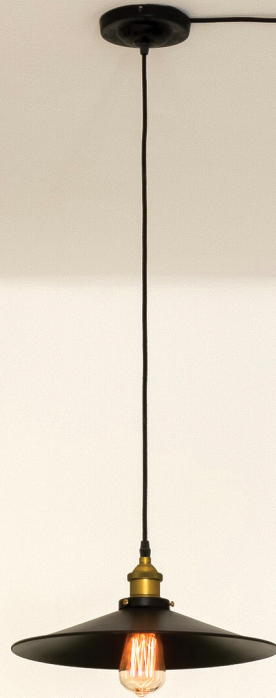


Turn to the experts

# WHAT'S NEXT FOR IN-HOME COMFORT

Carrier Ductless Systems  
Product Catalog

Fall 2023



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# *ENHANCING YOUR IN-HOME COMFORT ONE ROOM AT A TIME*

**Ductless systems are becoming an increasingly popular HVAC choice in homes across the U.S. Why?**

Because not only can they heat and cool any space with precision—but, in most cases, they don't require ductwork, which provides homeowners with increased flexibility.

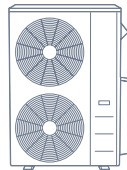
Often called “mini-splits,” ductless systems use the same process for heating and cooling as traditional systems. However, instead of delivering hot or cool air to an entire home (through ducts and vents), each ductless unit blows air directly into a single room. This allows for greater comfort control of individual spaces and improves energy efficiency and sustainability along the way.

# CARRIER. MAKING INDOOR SPACES MORE LIVABLE.

As a general rule of thumb, complete ductless systems include:



**Indoor unit(s)**  
with a coil and  
blower fan



**Outdoor unit**  
with a compressor,  
coil and fan



**Copper refrigerant tubing**  
and electrical wiring that  
connects the indoor and  
outdoor units

Carrier ductless systems also use inverter technology—which continually adjusts the compressor speed as conditions change for consistent temperatures, quiet operation and lower energy usage. Plus, enjoy year-round comfort with a system that performs in even the harshest of conditions.

With Carrier ductless solutions on hand, any space can become a more comfortable place.

# VERSATILE UNITS. STREAMLINED DESIGNS.

Almost every home has a room that always seems drafty or overheated. Perhaps it's a sunroom that gets too hot to be enjoyable or a master bedroom that's just not cool enough for sleeping.

**Whatever the challenge, Carrier ductless units meet virtually any application and installation need.**



The high wall is easily and quickly mounted directly to the wall

---



The console mounts near the floor or ceiling with a slim, discrete profile

---



The ducted is a great example of a unit that's hidden from view (if ceiling space allows)

---



The cassette can be mounted directly in the ceiling

---



The multi-poise air handler uses existing ductwork to seamlessly replace traditional systems and furnaces



Experience the best of comfort and design flexibility with the new Carrier one-way cassette. This versatile unit can be incorporated into a single or multi-zone system and easily installed nearly anywhere in the home or office with no modifications to existing framing.

The latest addition to the Carrier ductless series, the one-way cassette is the ideal choice for homeowners seeking an exceptionally efficient, whisper-quiet and stylish system that provides dependable comfort in all climates.

# MORE OF WHAT YOU NEED & LESS OF WHAT YOU DON'T

It goes without saying that ductless systems have benefits to spare. Even the most challenging areas to control and maintain can be turned into comfortable, usable spaces with the addition of ductless.

## ENHANCED COMFORT

- **Air Quality**—Each Carrier ductless unit has removable, washable air filters inside. This helps prevent airborne particles from recirculating in your home's air, keeping it fresher and cleaner. Plus, our top-of-the-line systems allow you to precisely control humidity levels, so rooms never feel too damp or too dry.
- **Multi-Zone Capabilities**—Our multi-zone outdoor unit can connect and power several indoor units at the same time, which helps achieve the desired comfort level for every room.
- **Smart Controls**—Carrier Infinity ductless systems have built-in Wi-Fi®. Most ductless systems have integrated sensors that can direct airflow toward the people in the room and third-party thermostat compatibility.
- **Quiet Operation**—Ultra-quiet operation reduces noise pollution both indoors and out for more peaceful, comfortable spaces.





## **GREATER SUSTAINABILITY**

- **Energy Efficiency**—Ductless systems only use power when it's needed, reducing energy consumption and keeping costs down in tandem. Plus, owners may qualify for added efficiency rebates from local utilities companies. Visit the [Carrier Rebate Center](#) to see eligible products and incentives for your area.
- **Energy Savings**—Because Carrier ductless systems allow you to select which rooms to heat or cool (instead of an entire house), energy use is limited to those specific areas. This also helps offset the energy loss commonly experienced in older homes.
- **SEER2** (Seasonal Energy Efficiency Ratio) measures the cooling efficiency of a system. The higher the SEER2, the less energy needed to cool your home. Carrier systems have a SEER2 rating of up to 28.5.
- **HSPF2** (Heating Seasonal Performance Factor) is how the heating efficiency of the system is measured. Just like SEER2, the higher the HSPF2 number, the more efficient the heat pump. Carrier systems have an up to 18.0 HSPF2 rating.

***CARRIER DUCTLESS  
SYSTEMS DON'T  
JUST KEEP YOU  
COMFORTABLE—  
THEY ALSO HELP  
THE PLANET AND  
KEEP YOUR UTILITY  
BILLS DOWN.***

# IMPROVED APPLICATION FLEXIBILITY

## *RENOVATIONS & EXPANSIONS*

The flexibility of ductless systems means they can be easily integrated into new architecture without having to accommodate for additional space between walls and ceilings. When converting an existing area that may not be connected to the central HVAC system into a new living space (i.e., a basement, attic or garage), ductless is a simple solution for providing comfort year-round.

## *EASY INSTALLATION*

The system's refrigerant pipe and electrical cable enter the house through a three-inch hole in the wall. That's it! Installation is quick, non-intrusive and minimally disruptive to your space.

## *CONSISTENT TEMPERATURES*

Have a room that's too hot or too cold? No problem. Ductless can help you target areas with uneven temperatures for more consistent comfort.

## *OLDER & HISTORIC HOMES*

When your home doesn't have the space to add ductwork, ductless is an ideal solution that doesn't require costly renovations and installation.

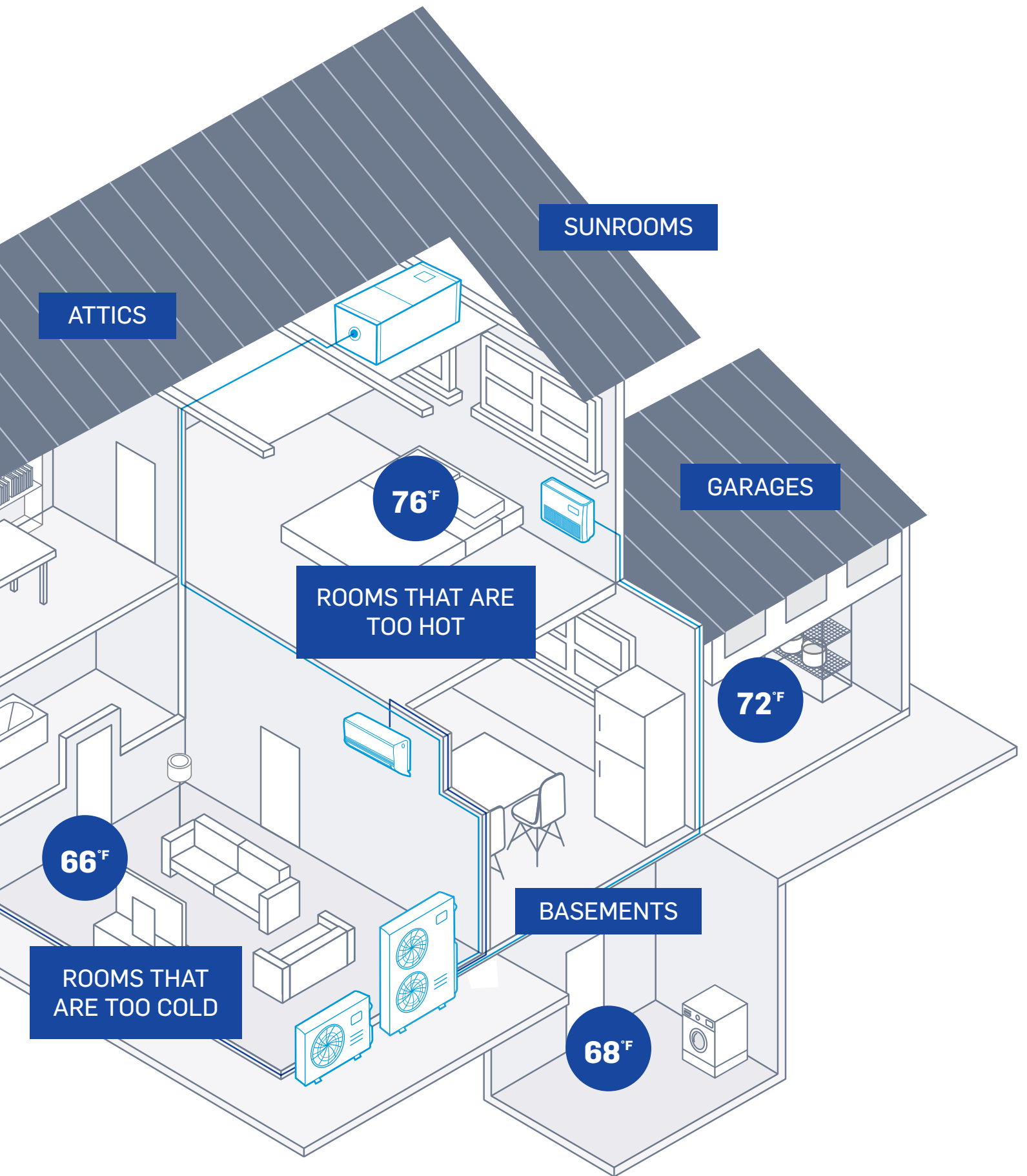
## *MIXED-USE & LIGHT COMMERCIAL*

Ductless systems can deliver individualized temperature control across multiple rooms—making them the ideal choice for applications like multi-family developments, assisted living facilities, strip malls, hotels and more.



HOME ADDITIONS

RENOVATIONS



*A BRAND THAT  
HAS NEVER  
STOPPED  
INNOVATING—  
& NEVER WILL*



Founded upon Willis Carrier's invention of the modern air conditioning in 1902, Carrier is a world leader in heating, cooling and refrigeration solutions. We are constantly building upon our history of proven innovation with new products and services that improve global comfort and efficiency—addressing customer challenges and providing great experiences along the way.

But our innovation doesn't stop there. From the hiring of the first female air conditioning engineer to the creation of the first air conditioning systems for skyscrapers, homes, factories and ships, Carrier continues to look for ways to advance comfort.

As a trusted partner for precise temperature and humidity control, we know a thing or two about innovation. And it's this same innovation that we put to work in your home. For enhanced in-home comfort, Carrier is the expert you can count on.

*"CARRIER IS ALWAYS FORWARD-THINKING. I ABSOLUTELY LOVE HOW THEY'RE ALWAYS DEVELOPING NEW TECHNOLOGY, AND NOT JUST WITH UTILITY SAVINGS AND EFFICIENCIES IN MIND. THEY'RE ALSO THINKING ABOUT US, THE DEALERS AND THE TECHNICIANS."*

**Daren Shawver**  
IMS Heating and Air

"In the 20 years we've worked together, Carrier has been tested. And every time, Carrier's passed the test."

**Ryan Brown**  
Conway Air Conditioning

"Ductless gives us so much adaptability for different needs and spaces."



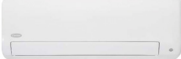

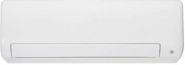


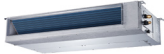
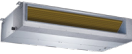








**Mike Hinton**  
Mike's Heating & Cooling

"They invented the industry, and they continue to innovate."

**Brianna Woods**  
Advantage Heating & Cooling

# DUCTLESS & VRF SYSTEMS

## Product Lineup

Product Line	Outdoor Units	Indoor Units		
<p><b>INFINITY SYSTEM</b></p> <p><b>Capacity Range</b></p> <ul style="list-style-type: none"> <li>• 9-18K Btu/h</li> <li>• Up to 28.5 SEER2</li> <li>• Up to 18.0 HSPF2</li> </ul> <p><b>Pump Type</b></p> <p>Heat Pump</p>	 <p><b>38MPRB Outdoor Unit</b> Sizes: 09 / 12 / 18</p>	 <p><b>40MPHB High Wall</b> Sizes: 09 / 12</p>	 <p><b>40MPHB High Wall</b> Size: 18</p>	
<p><b>Performance SERIES</b></p> <p><b>Capacity Range</b></p> <ul style="list-style-type: none"> <li>• 6-36K Btu/h</li> <li>• Up to 28.1 SEER2</li> <li>• Up to 12.0 HSPF2</li> </ul> <p><b>Pump Type</b></p> <p>Heat Pump</p>	 <p><b>38MARB Outdoor Unit</b> Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36</p>	 <p><b>40MAHB High Wall</b> Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36</p>	 <p><b>40MBCQ Cassette</b> Sizes: 09 / 12 / 18</p>	 <p><b>40MBCAQ Cassette</b> Size: 24</p>
		 <p><b>40MBDQ Ducted</b> Sizes: 09 / 12 / 18 / 24</p>	 <p><b>40MBDAQ High Static Slim Ducted</b> Sizes: 09 / 12 / 18 / 24</p>	 <p><b>40MCCAQ One-Way Cassette</b> Sizes: 06 / 09 / 12 / 18</p>
		 <p><b>40MBFAQ Floor Console</b> Size: 12</p>	 <p><b>40MBFQ Console</b> Sizes: 18 / 24</p>	 <p><b>40MBAB Air Handler</b> Sizes: 18 / 24 / 30 / 36</p>
<p><b>Comfort SERIES</b></p> <p><b>Capacity Range</b></p> <ul style="list-style-type: none"> <li>• 9-36K Btu/h</li> <li>• Up to 21.5 SEER2*</li> <li>• Up to 9.4 HSPF2</li> </ul> <p><b>Pump Type</b></p> <p>Heat Pump Cooling Only</p> <p>*size 9K only</p>	 <p><b>38MHRDC Outdoor Unit</b> Sizes: 09 / 12 / 18 / 24 <b>Cooling Only</b></p>	 <p><b>40MHHAC High Wall</b> Sizes: 09 / 12 / 18 / 24 <b>Cooling Only</b></p>	 <p><b>40MHHAQ High Wall</b> Sizes: 09 / 12 / 18 / 24 / 30 / 36 <b>Heat Pump</b></p>	
	 <p><b>38MHCRCQ Outdoor Unit</b> Sizes: 09 / 12 / 18 / 24 / 30 / 36 <b>Heat Pump</b></p>			

Product Line	Outdoor Units	Indoor Units					
<b>Performance SERIES</b>  <b>Capacity Range</b> • 18–48K Btu/h • Up to 26.0 SEER2 • Up to 10.5 HSPF2  <b>Pump Type</b> Heat Pump	 <b>38MGRB Outdoor Unit</b> Size: 18R	 <b>38MGRB Outdoor Unit</b> Size: 36R	 <b>40MPHB High Wall</b> Sizes: 09 / 12 / 18	 <b>40MAHB High Wall</b> Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36	 <b>40MHH High Wall</b> Sizes: 09 / 12 / 18 / 24 / 30 / 36	 <b>40MBAB Air Handler</b> Sizes: 18 / 24 / 30 / 36	 <b>40MCCAQ One-Way Cassette</b> Sizes: 06 / 09 / 12 / 18
	 <b>38MGRB Outdoor Unit</b> Size: 48R	 <b>38MGHB High Heat Outdoor Unit</b> Sizes: 24HH / 30HH	 <b>40MBDQ Ducted</b> Sizes: 09 / 12 / 18 / 24	 <b>40MBDAQ High Static Slim Ducted</b> Sizes: 09 / 12 / 18 / 24	 <b>40MBFQ Console</b> Size: 18 / 24	 <b>40MBFAQ Floor Console</b> Size: 12	 <b>40MBCQ Cassette</b> Sizes: 09 / 12 / 18




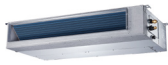


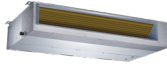





**VRF PRODUCTS**

<b>Carrier VRF</b>  <b>Capacity Range</b> • 36–60K Btu/h • Up to 19.2 SEER2 • Up to 9.2 HSPF2  <b>Pump Type</b> 2-pipe Heat Pump 2-pipe Single-Phase Heat Pump	 <b>38VMB-H Outdoor Unit</b> Sizes: 36 / 48 / 60	 <b>40VMW High Wall</b> Sizes: 12 / 15 / 18 / 24 / 30 / 36 / 48	 <b>40VMC 4-way Compact Cassette</b> Sizes: 05 / 07 / 09 / 12 / 15	 <b>40VMF 4-way Cassette</b> Sizes: 09 / 12 / 15 / 18 / 24 / 30 / 36 / 48	 <b>40VMI One-way Compact Cassette</b> Sizes: 05 / 07 / 09 / 12 / 15 / 18 / 24	 <b>40VMU Underceiling</b> Sizes: 12 / 15 / 18 / 24 / 30 / 36 / 48	 <b>40VMR Floor Console</b> Sizes: 07 / 09 / 12 / 15 / 18 / 24
	 <b>40VMV Vertical Air Handling Unit (AHU)</b> Sizes: 12 / 18 / 24 / 30 / 36 / 48 / 53.5	 <b>40VML Low Static Ducted (Slim Profile)</b> Sizes: 07 / 09 / 12 / 15 / 18 / 24	 <b>40VMM Medium Static Ducted</b> Sizes: 07 / 09 / 12 / 15 / 18 / 24 / 30 / 36 / 48	 <b>40VMH High Static Ducted</b> Sizes: 24 / 30 / 36 / 48 / 53.5 / 72 / 96	 <b>40VMA Outside Air Ducted</b> Sizes: 36 / 48 / 53.5 / 72 / 96		






<b>TOSHIBA Carrier</b>  <b>Capacity Range</b> • 72 / 144K Btu/h • Up to 27.4 IEER • Up to 31.3 SCHE  <b>Pump Type</b> Heat Pump 3-pipe System  <b>Capacity Range</b> • 36–60K Btu/h • Up to 23.1 SEER2 • Up to 10.9 HSPF2  <b>Pump Type</b> 2-pipe Heat Pump 3-pipe Heat Recovery	 <b>MMYF-1P Heat Recovery Outdoor Unit</b> Sizes: 72 / 144	 <b>MCY7 Heat Pump Outdoor Unit</b> Sizes: 36 / 48 / 60	 <b>MMK7 High Wall</b> Sizes: 07 / 09 / 12 / 15 / 18 / 24 / 30 / 36	 <b>MMU1Y One-way Cassette</b> Sizes: 07 / 09 / 12	 <b>MMUM 4-way Compact Cassette</b> Sizes: 07 / 09 / 12 / 15 / 18	 <b>MMU4 4-way Cassette</b> Sizes: 07 / 09 / 12 / 15 / 18 / 24 / 30 / 36 / 42 / 48 / 54	 <b>MMC8 Underceiling</b> Sizes: 18 / 24 / 30 / 36 / 48
		 <b>MML4 Floor Console – Exposed</b> Sizes: 07 / 09 / 12 / 15 / 18 / 24	 <b>MMDP Slim Ducted (Low Profile)</b> Sizes: 07 / 09 / 12 / 15 / 18	 <b>MMD6B Concealed Ducted (Medium Static)</b> Sizes: 07 / 09 / 12 / 15 / 18 / 21 / 24 / 30 / 36 / 42 / 48 / 54	 <b>MMD6H High Static Ducted</b> Sizes: 24 / 30 / 36 / 48 / 54 / 72 / 96	 <b>MMLB Floor Console – Recessed</b> Sizes: 07 / 09 / 12 / 15 / 18 / 24	
		 <b>MMDV Vertical Air Handling Unit (AHU)</b> Sizes: 12 / 18 / 24 / 30 / 36 / 42 / 48 / 60	 <b>MMD1 Outside Air Handling Unit</b> Sizes: 48 / 72 / 96				

# DUCTLESS & VRF SYSTEMS

## Product Lineup

Product Line	Outdoor Units	Indoor Units			
<b>Performance SERIES</b>  <b>Capacity Range</b> • 36–58K Btu/h • Up to 19.8 SEER2 • Up to 10.2 HSPF2  <b>Pump Type</b> Heat Pump	 <b>38MBRC Outdoor Unit</b> Size: 36	 <b>40MBCAQ Cassette</b> Sizes: 36 / 48	 <b>40MBFQ Console</b> Sizes: 36 / 48 / 58	 <b>40MBDQ Ducted</b> Sizes: 36 / 48	 <b>40MBDQ Ducted</b> Size: 58
	 <b>38MBRC Outdoor Unit</b> Sizes: 48 / 58	 <b>40MBDAQ High Static Slim Ducted</b> Sizes: 36 / 48	 <b>40MBDAQ High Static Slim Ducted</b> Size: 58	 <b>40MBAB Air Handler</b> Sizes: 36 / 48 / 60	
<b>Horizontal Discharge</b>  <b>Capacity Range</b> • 18–60k Btu/h • 34SCA5: Up to 17.1 SEER2 • 38MURA: Up to 18.0 SEER2 Up to 9.8 HSPF2  <b>Pump Type</b> Heat Pump Cooling Only	 <b>38MURA Outdoor Units</b> Sizes: 18 / 24 / 30 / 36 / 48 / 60 Heat Pump	 <b>40MUAA Air Handler</b> Sizes: 18 / 24 / 30 / 36 / 48 / 60			
	 <b>34SCA5</b> Sizes: 18 / 24 / 30 / 36 / 48 / 60 Cooling Only				

### RAV PRODUCTS

<b>TOSHIBA Carrier</b>  <b>Capacity Range</b> • 12–48K Btu/h • Up to 25.5 SEER2 • Up to 11.3 HSPF2  <b>Pump Type</b> Heat Pump	 <b>RAVAT2 Outdoor Unit</b> Sizes: 12 / 18	 <b>RAVAT2 Outdoor Unit</b> Size: 24	 <b>RAVKR2 High Wall</b> Sizes: 12 / 18 / 24 / 30 / 36	 <b>RAVUT2 Cassette</b> Sizes: 18 / 24 / 30 / 36 / 42 / 48
	 <b>RAVAT2 Outdoor Unit</b> Sizes: 30 / 36 / 42 / 48	 <b>RAVB2 Medium Static Ducted</b> Sizes: 12 / 18 / 24 / 30 / 36 / 42 / 48	 <b>RAVCT2 Underceiling</b> Sizes: 18 / 24 / 30 / 36 / 42 / 48	



## VROOM SELECTION SOFTWARE

With VRoom Selection Software, engineers can easily design, lay out and prepare VRF and DLS systems for quotes.

#### Features include:

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





Carrier

# *SINGLE ZONE RESIDENTIAL*



**38MPRB Outdoor Unit**  
 Up to 28.5 SEER2  
 Up to 18.0 HSPF2  
 Sizes: 09 / 12 / 18



**40MPHB High Wall**  
 Sizes: 09 / 12



**40MPHB High Wall**  
 Size: 18



**38MARB Outdoor Unit**  
 Up to 28.1 SEER2  
 Up to 12.0 HSPF2  
 Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36



**40MAHB High Wall**  
 Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36



**40MCCAQ One-Way Cassette**  
 Sizes: 06 / 09 / 12 / 18



**40MBCQ Cassette**  
 Sizes: 09 / 12 / 18



**40MBCAQ Cassette**  
 Size: 24



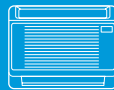
**40MBDQ Ducted**  
 Sizes: 09 / 12 / 18 / 24



**40MBDAQ High Static Slim Ducted**  
 Sizes: 09 / 12 / 18 / 24



**40MBAB Air Handler**  
 Sizes: 18 / 24 / 30 / 36



**40MBFAQ Floor Console**  
 Size: 12



**40MBFQ Console**  
 Sizes: 18 / 24



**38MHRDC & 38MHRQC Outdoor Unit**  
 Up to 21.5 SEER2  
 Up to 9.4 HSPF2  
 Sizes: 09 / 12 / 18 / 24 / 30 / 36



**40MHAC & 40MHQAQ High Wall**  
 Sizes: 09 / 12 / 18 / 24 / 30 / 36

## INFINITY® SYSTEM

### 38MPRB OUTDOOR UNIT



# An Efficient Outdoor Unit for Peak Performance & Energy Savings

## FEATURES

- 100% Heating capacity at 0°F (-17°C) without wind baffles
- 100% Cooling capacity at -22°F (-30°C)
- Available in 208/230V
- Built-in basepan heater
- Auto-restart function
- Refrigerant leakage detection
- Quiet outdoor operation
- Anti-corrosive fin coating
- Piping length up to 164 ft (50m)
- Cooling operating range: -22° ~ 122°F (-30° ~ 50°C)
- Heating operating range: -22° ~ 75°F (-25° ~ 24°C)

## COMPATIBLE WITH:

- 40MPHB High Wall (p 22)

INFINITY SYSTEM

## Heat Pump with Basepan Heater

Inverter Compressor

Up to 28.5 SEER2

Up to 18.0 HSPF2

Sizes: 09 / 12 / 18

All systems are ENERGY STAR® certified



## KEY FEATURES

### Unrivalled Efficiency

With a SEER2 rating of up to 28.5 and a cooling operating range of -22° F to 122° F, this outdoor unit offers first-rate efficiency without compromising performance.

### Virtually Silent Operation

Enjoy a more peaceful outdoor experience with a unit that's nearly silent—operating at as low as 54.0 dB(A).

**SPECIFICATIONS:**

38MPRB Outdoor Unit				
Heat Pump				
System				
Size		9K	12K	18K
Outdoor Model		38MPRBQ09AA3	38MPRBQ12AA3	38MPRBQ18AA3
Electrical				
Voltage, Phase, Cycle	V-Ph-Hz	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	16	16	25
Recommended Fuse Rating	A.	20	20	30
MOCP - Fuse Rating	A.	20	20	35
Operating Range				
Cooling Outdoor DB Min - Max	° F (° C)	-22~122 (-30~50)	-22~122 (-30~50)	-22~122 (-30~50)
Heating Outdoor DB Min - Max	° F (° C)	-22~75 (-30~24)	-22~75 (-30~24)	-22~75 (-30~24)
Piping				
Total Piping Length	ft (m)	82 (25)	82 (25)	164 (50)
Piping Lift*	ft (m)	32.8 (10)	32.8 (10)	82 (25)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	3/8" (9.52)
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	1/2 (12.7)	5/8" (15.9)
Refrigerant				
Type		R410A	R410A	R410A
Charge	lbs (kg)	3.31 (1.5)	3.31 (1.5)	5.73 (2.6)
Outdoor				
Unit Width	in (mm)	35.04 (890)	35.04 (890)	37.24 (946)
Unit Height	in (mm)	26.50 (673)	26.50 (673)	31.89 (810)
Unit Depth	in (mm)	13.46 (342)	13.46 (342)	16.14 (410)
Net Weight	lbs (kg)	101.41 (46)	101.41 (46)	134.48 (61)
Airflow	CFM	1,765	1,765	2,235
Sound Pressure	dB(A)	56.5	56.5	54.0

\*Condensing unit above or below indoor unit.

**COMPATIBILITY:**

Indoor Unit		Outdoor Unit		
		38MPRBQ09AA3	38MPRBQ12AA3	38MPRBQ18AA3
High Wall	40MPHBQ09XA3	•		
	40MPHBQ12XA3		•	
	40MPHBQ18XA3			•

High Wall				
Indoor Model		40MPHBQ09XA3	40MPHBQ12XA3	40MPHBQ18XA3
<b>ENERGY STAR®</b>		YES	YES	YES
Cooling System Tons		0.75	1	1.5
Cooling Rated Capacity	Btu/h	9,000	12,000	18,000
Cooling Cap. Range Min - Max	Btu/h	2,800~16,900	2,800~16,900	6,900~27,000
SEER2		28.5	27.0	26.3
EER2		16.0	14.0	15.3
Heating Rated Capacity (47° F)	Btu/h	12,000	12,000	20,000
Heating Rated Capacity (17° F)	Btu/h	6,900	6,900	11,000
Heating Maximum Capacity (17° F)	Btu/h	18,100	18,100	11,300
Heating Maximum Capacity (5° F)	Btu/h	13,900	13,900	25,400
Heating Cap. Range Min - Max	Btu/h	5,100~19,000	5,100~19,000	9,900~31,000
HSPF2		18.0	12.0	15.5
COP (47° F)	W/W	3.84	3.84	4.30
COP (17° F)	W/W	2.89	2.89	2.80
COP (5° F)	W/W	2.00	2.00	2.00

**INFINITY® SYSTEM**  
**40MPHB HIGH WALL**



# Infinity® High Wall

**FEATURES**

- Modes: Cool, Heat, Dry, Fan, Auto
- Four Fan speeds including Turbo Mode
- Carbon Filter
- Sleep Mode
- Relative Humidity Sensor
- Intelligent Eye (Occupancy Sensor)
- ECO Mode
- Up-Down / Right-Left louver control (fixed or swing)
- *Follow Me* (senses temperature at handheld remote)
- NEW drop-down motor feature (18K only)
- Heating setback (46° F Heating Mode)
- Quiet indoor operation
- Anti-corrosive fin coating

**COMPATIBLE WITH:**

- 38MPRB Outdoor Unit Single Zone (p 20)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)



Sizes: 09 / 12 / 18

**KEY FEATURES**

**Superior Comfort**

With innovative features, like the Occupancy Sensor, airflow is directed toward or away from anyone in the room.

**Top Tier Performance**

Get the most out of a flexible, energy efficient unit with best-in-class performance and ultimate efficiency.

**CONTROLS**

Wi-Fi® Kit included with indoor unit

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller KSACN0601AAA (7-Day Programmable) Sizes 09 / 12

Optional Wired Remote Controller KSACN0801AAA (7-Day Programmable) Size 18



**Optional  
 Wired Controller  
 (7-Day Programmable)**



**Wireless  
 Remote  
 Controller**

**SPECIFICATIONS:**

40MPHB High Wall				
Heat Pump				
System				
Size		9K	12K	18K
Indoor Model		40MPHBQ09XA3	40MPHBQ12XA3	40MPHBQ18XA3
Electrical				
Voltage-Phase-Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit		
MCA	A.	0.3	0.3	0.625
Operating Range				
Cooling Indoor DB Min - Max	° F (° C)	62~90 (17~32)	62~90 (17~32)	63~90 (17~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping				
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	5/8 (16)
Indoor				
Unit Width (W)	in (mm)	35.2 (895)	35.2 (895)	44.88 (1140)
Unit Height (H)	in (mm)	11.7 (298)	11.7 (298)	14.57 (370)
Unit Depth (D)	in (mm)	9.8 (248)	9.8 (248)	10.83 (275)
Net Weight	lbs (kg)	28.66 (13)	28.66 (13)	43.65 (19.8)
Number of Fan Speeds		4	4	4
Airflow (lowest to highest)	CFM	144/245/295/345	168/252/306/357	319/414/611/719
Cooling Sound Pressure (lowest to highest)	dB(A)	29/35.5/41.5/45.6	29/35.5/41.5/46.8	36.7/39.2/43.5/52.1
Heating Sound Pressure (lowest to highest)	dB(A)	30.5/36/40.5/44.5	30.5/36/40.5/46.1	36.5/38.2/44.1/52
Air throw Data	ft (m)	21.98 (6.7)	22.97 (7)	31.5 (9.6)
Moisture Removal	Pint/h (L/h)	2.11 (1.0)	2.54 (1.2)	5.5 (2.6)
Field Drain Pipe Size O.D.	in (mm)	0.625 (16)	0.625 (16)	0.625 (16)

**COMPATIBILITY:**

Indoor Unit	40MPHBQ09XA3	40MPHBQ12XA3	40MPHBQ18XA3
Outdoor Unit Single Zone*	38MPRBQ09AA3	38MPRBQ12AA3	38MPRBQ18AA3
Outdoor Unit Multi-Zone*	38MGRBQ18BA3	38MGRBQ18BA3	
	38MGHBQ24CA3	38MGHBQ24CA3	
	38MGHBQ30DA3	38MGHBQ30DA3	38MGHBQ30DA3
	38MGRBQ36DA3	38MGRBQ36DA3	38MGRBQ36DA3
	38MGHBQ36DA3	38MGHBQ36DA3	38MGHBQ36DA3
	38MGRBQ48EA3	38MGRBQ48EA3	38MGRBQ48EA3
	38MGHBQ48EA3	38MGHBQ48EA3	38MGHBQ48EA3

\*Performance may vary based on the compatible outdoor units.  
 See respective pages for performance data.

## PERFORMANCE™ SERIES

### 38MARB OUTDOOR UNIT



# Performance™ Heat Pump with Basepan Heater

## FEATURES

- 100% Heating capacity at -4° F (-20° C)\*
- Available in 208/230V (6-36K) and 115V (12K)
- Built-in basepan heater
- Auto-restart function
- Anti-corrosive fin coating
- Piping length up to 213 ft (65m)
- Cooling operating range -22° ~ 130° F (-30° ~ 55° C)
- Heating operating range -22° ~ 86° F (-25° ~ 30° C)

## COMPATIBLE WITH:

- 40MAHB High Wall (p 28)
- 40MCCAQ One-Way Cassette (p 30)
- 40MBCQ & 40MBCAQ Cassette (p 32)
- 40MBDQ Ducted (p 36)
- 40MBDAQ High Static Slim Ducted (p 38)
- 40MBFAQ & 40MBFQ Console (p 42)
- 40MBAB Air Handler (p 40)

Performance  
SERIES

## Heat Pump With Basepan Heater

Inverter Compressor

Up to 28.1 SEER2

Up to 12.0 HSPF2

Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36 (208-230V);

Size 12 (115V)

Select sizes are ENERGY STAR® certified based on indoor unit pairing



## KEY FEATURES

### Extra-Low Temperature Heating

Heat output up to 69% of rated capacity at -22° F (-30° C). So, when it's cold outside, it will be warm inside, making this a primary heat source and eliminating the need for a backup.

### Rapid Cooling and Heating

After startup, the compressor quickly gets up to maximum speed, cooling or heating the room in minutes.

\* For certain models.



# PERFORMANCE™ SERIES

## 38MARB OUTDOOR UNIT

### PERFORMANCE:

		40MAHB High Wall							
Size		12	6	9	12	18	24	30	36
Indoor Model		40MAHBQ12XA1	40MAHBQ06XA3	40MAHBQ09XA3	40MAHBQ12XA3	40MAHBQ18XA3	40MAHBQ24XA3	40MAHBQ30XA3	40MAHBQ36XA3
ENERGY STAR®		YES	YES	YES	YES	YES	YES	NO	NO
Cooling Rated Capacity	Btu/h	12,000	6,000	9,000	12,000	18,000	24,000	30,000	36,000
Cooling Cap. Range Min - Max	Btu/h	3,500~13,200	3,400~12,000	3,300~14,300	3,300~14,300	8,900~19,400	6,850~27,000	8,900~32,600	9,300~38,800
SEER2		23.5	26.5	28.1	25.5	21.5	21.5	20.0	20.5
EER2		13.0	15.8	16.2	14	12.5	13.0	11.5	8.5
Heating Rated Capacity (47° F)	Btu/h	12,000	7,000	12,000	12,000	18,000	29,000	30,000	36,000
Heating Rated Capacity (17° F)	Btu/h	8,400	8,500	9,500	10,000	15,000	19,800	19,000	22,400
Heating Rated Capacity (5° F)	Btu/h	7,100	7,500	10,500	12,000	18,000	25,200	20,600	20,400
Heating Maximum Capacity (17° F)	Btu/h	8,500	9,000	12,000	12,000	20,270	27,200	21,200	22,500
Heating Cap. Range Min - Max	Btu/h	5,000~12,200	3,500~11,500	5,000~15,200	5,000~15,300	15,100~19,500	11,600~33,000	12,300~34,100	11,550~37,000
HSPF2		9.9	13.0	11.5	10.4	10.7	11.4	9.0	8.0
COP (47° F)	W/W	3.52	3.92	3.81	3.88	3.10	3.40	2.90	2.51
COP (17° F)	W/W	2.80	2.90	2.53	2.41	2.35	2.87	2.3	2.18
2.18	W/W	2.18	2.10	1.80	1.80	1.80	1.80	1.94	1.80

### PERFORMANCE:

		40MBCQ & 40MBCAQ Cassette			
Size		9	12	18	24
Indoor Model		40MBCQ09---3	40MBCQ12---3	40MBCQ18---3	40MBCAQ24---3
ENERGY STAR®		YES	YES	YES	YES
Cooling System Tons		0.75	1.00	1.33	2.00
Cooling Rated Capacity	Btu/h	9,000	12,000	16,000	24,000
Cooling Cap. Range Min - Max	Btu/h	2,850~11,100	3,000~13,700	5,600~17,000	8,000~25,000
SEER2		20.5	22.3	20.0	20.5
EER2		13.0	12.7	12.5	11.0
Heating Rated Capacity (47° F)	Btu/h	9,800	12,000	17,000	25,000
Heating Rated Capacity (17° F)	Btu/h	9,000	9,900	15,900	21,000
Heating Maximum Capacity (5° F)	Btu/h	10,000	11,300	16,000	25,800
Heating Maximum Capacity (17° F)	Btu/h	11,800	14,000	17,000	25,800
Heating Cap. Range Min - Max	Btu/h	2,250~12,500	2,000~15,300	8,700~21,000	11,800~27,000
HSPF2		10.3	10.2	9.5	11.5
COP (47° F)	W/W	3.09	3.26	2.95	3.5
COP (17° F)	W/W	1.91	2.54	2.44	2.64
COP (5° F)	W/W	1.8	1.9	1.75	2.0

		40MBDQ Ducted			
Size		9	12	18	24
Indoor Model		40MBDQ09---3	40MBDQ12---3	40MBDQ18---3	40MBDQ24---3
ENERGY STAR®		YES	YES	YES	YES
Cooling System Tons		0.75	1.0	1.4	2.0
Cooling Rated Capacity	Btu/h	9,000	12,000	16,500	24,000
Cooling Cap. Range Min - Max	Btu/h	2,400~12,500	2,250~14,400	6,500~18,800	6,500~27,800
SEER2		20.2	19.5	18.0	19.2
EER2		13.2	11.7	11.7	12.0
Heating Rated Capacity (47° F)	Btu/h	10,000	12,500	19,000	25,000
Heating Rated Capacity (17° F)	Btu/h	10,100	10,600	15,000	21,000
Heating Rated Capacity (5° F)	Btu/h	10,800	12,100	17,700	27,000
Heating Maximum Capacity (17° F)	Btu/h	11,600	12,600	19,000	24,000
Heating Cap. Range Min - Max	Btu/h	1,700~15,600	1,800~16,300	8,900~22,000	12,200~32,200
HSPF2		12.0	10.0	9.5	10.5
COP (47° F)	W/W	3.37	3.56	2.93	3.30
COP (17° F)	W/W	2.40	2.50	2.27	2.64
COP (5° F)	W/W	1.90	1.96	1.85	2.00

### PERFORMANCE:

		40MBFAQ & 40MBFQ Console		
Size		12	18	24
Indoor Model		40MBFAQ12---3	40MBFQ18---3	40MBFQ24---3
ENERGY STAR®		YES	YES	YES
Cooling System Tons		1.0	1.42	2.0
Cooling Rated Capacity	Btu/h	12,000	17,000	24,000
Cooling Cap. Range Min - Max	Btu/h	7,600~14,400	7,800~19,900	5,400~26,800
SEER2		24.2	20.5	20.5
EER2		13.3	12.5	11.7
Heating Rated Capacity (47° F)	Btu/h	12,000	18,000	25,000
Heating Rated Capacity (17° F)	Btu/h	10,200	12,000	19,000
Heating Rated Capacity (5° F)	Btu/h	11,600	16,000	25,000
Heating Maximum Capacity (17° F)	Btu/h	12,800	17,000	28,600
Heating Cap. Range Min - Max	Btu/h	5,000~15,700	8,600~21,500	12,500~30,500
HSPF2		10.7	9.8	11.0
COP (47° F)	W/W	4.10	3.01	3.56
COP (17° F)	W/W	2.71	2.30	2.64
COP (5° F)	W/W	2.08	1.80	2.10

		40MBAB Air Handler			
Size		18	24	30	36
Indoor Model		40MBABQ18XB3	40MBABQ24XB3	40MBABQ30XB3	40MBABQ36XB3
ENERGY STAR®		YES	YES	NO	NO
Cooling System Tons		1.5	1.92	2.5	3.0
Cooling Rated Capacity	Btu/h	18,000	23,000	30,000	36,000
Cooling Cap. Range Min - Max	Btu/h	21,000	25,600	33,600	38,000
SEER2		17.6	18.4	17.5	15.4
EER2		11.7	11.7	11.2	8.2
Heating Rated Capacity (47° F)	Btu/h	19,000	26,000	30,000	38,000
Heating Rated Capacity (17° F)	Btu/h	15,400	16,900	20,500	27,000
Heating Rated Capacity (5° F)	Btu/h	17,600	23,500	20,500	20,900
Heating Maximum Capacity (17° F)	Btu/h	18,200	25,000	22,000	27,200
Heating Cap. Range Min - Max	Btu/h	9,000~21,000	5,600~29,000	12,000~32,000	9,200~43,000
HSPF2		9.6	9.3	8.4	9.0
COP (47° F)	W/W	3.39	3.50	3.52	3.10
COP (17° F)	W/W	2.70	2.39	2.40	2.53
COP (5° F)	W/W	2.00	1.94	1.90	1.79

# PERFORMANCE™ SERIES

## 38MARB OUTDOOR UNIT

### PERFORMANCE:

40MCCAQ One-Way Cassette					
Size	6		12	18	
Indoor Model	40MCCAQ09XA3		40MCCAQ18XA3		
ENERGY STAR®	YES	YES	YES	YES	
Cooling System Tons	0.5	0.75	1.0	1.5	
Cooling Rated Capacity	Btu/h	6,500	9,000	12,000	16,700
Cooling Cap. Range Min - Max	Btu/h	3,600~11,200	3,600~12,200	4,000~14,100	6,100~17,500
SEER2	22.0	24.0	23.0	19.8	
EER2	14.5	13.0	13.0	12.5	
Heating Rated Capacity (47° F)	Btu/h	9,700	12,000	14,800	20,000
Heating Rated Capacity (17° F)	Btu/h	5,700	9,800	9,500	12,500
Heating Rated Capacity (5° F)	Btu/h	8,000	10,500	11,000	16,700
Heating Maximum Capacity (17° F)	Btu/h	10,000	11,400	11,500	18,800
Heating Cap. Range Min - Max	Btu/h	3,700~12,500	4,800~14,000	4,600~15,000	6,450~21,500
HSPF2	10.8	12.4	10.0	11.2	
COP (47° F)	W/W	3.75	3.30	3.56	3.19
COP (17° F)	W/W	2.60	2.35	2.48	2.50
COP (5° F)	W/W	2.00	1.80	1.80	1.80

40MBDAQ High Static Ducted					
Size	9		12	18	24
Indoor Model	40MBDAQ09XH3		40MBDAQ12XH3	40MBDAQ18XH3	40MBDAQ24XH3
ENERGY STAR®	YES	YES	YES	YES	YES
Cooling System Tons	0.75	1.00	1.46	2.00	
Cooling Rated Capacity	Btu/h	9,000	12,000	17,500	24,000
Cooling Cap. Range Min - Max	Btu/h	3,450~13,000	4,000~14,000	7,000~18,700	6,500~27,800
SEER2	20.5	20.0	18.0	19.2	
EER2	13.6	12.0	12.1	12.0	
Heating Rated Capacity (47° F)	Btu/h	9,800	12,000	19,000	25,000
Heating Rated Capacity (17° F)	Btu/h	8,600	9,700	15,700	21,000
Heating Rated Capacity (5° F)	Btu/h	10,800	12,000	18,000	24,000
Heating Maximum Capacity (17° F)	Btu/h	12,000	12,200	20,000	24,000
Heating Cap. Range Min - Max	Btu/h	4,550-14,000	3,600-15,000	5,900-23,000	12,200-32,200
HSPF2	10.0	9.5	10.8	11.1	
COP (47° F)	W/W	3.46	3.35	3.71	3.30
COP (17° F)	W/W	2.30	2.58	2.60	2.75
COP (5° F)	W/W	1.90	1.85	2.20	2.00

### SPECIFICATIONS:

38MARB Outdoor Unit									
Heat Pump									
System									
Size	12		6	9	12	18	24	30	36
Outdoor Model	38MARBQ12AA1		38MARBQ06AA3	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3
Electrical									
Voltage-Phase-Cycle	V-Ph-Hz	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	19	13	15	15	16	25	23	28
MOCP - Fuse Rating	A.	25	15	15	15	25	35	30	35
Operating Range									
Cooling Outdoor DB Min - Max	° F (° C)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)	-22~-122 (-30~-50)
Heating Outdoor DB Min - Max	° F (° C)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)
Piping									
Total Piping Length	ft (m)	82 (25)	82 (25)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)	213 (65)
Piping Lift*	ft (m)	32 (10)	32 (10)	32 (10)	32 (10)	65 (20)	82 (25)	82 (25)	98 (30)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (16)	5/8 (16)	5/8 (16)
Refrigerant									
Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	in (mm)	2.47 (1.12)	2.38 (1.08)	2.6 (1.18)	2.6 (1.18)	4.08 (1.85)	5.73 (2.6)	6.06 (2.75)	7.50 (3.40)
Compressor									
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Outdoor									
Unit Width	in (mm)	30.12 (765)	30.12 (765)	31.69 (805)	31.69 (805)	35.04 (890)	37.24 (946)	37.24 (946)	37.24 (946)
Unit Height	in (mm)	21.85 (555)	21.85 (555)	21.81 (554)	21.81 (554)	26.50 (673)	31.89 (810)	31.89 (810)	31.89 (810)
Unit Depth	in (mm)	11.93 (303)	11.93 (303)	12.99 (330)	12.99 (330)	13.46 (342)	16.14 (410)	16.14 (410)	16.14 (410)
Net Weight	lbs (kg)	66.80 (30.3)	63.71 (28.9)	74.07 (33.6)	73.63 (33.4)	100.97 (45.8)	134.48 (61)	141.76 (64.3)	150.13 (68.1)
Airflow	CFM	794	1,324	1,324	1,324	1,765	2,235	2,235	2,235
Sound Pressure	dB(A)	54.0	54.5	54.5	56.0	59.0	62.0	61.5	61.5

\*Condensing unit above or below indoor unit.

**COMPATIBILITY:**

Indoor Unit		Outdoor Unit								
		38MARBQ12AA1	38MARBQ06AA3	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3	38MARBQ36AB3
High Wall	40MAHBQ12XA1	•								
	40MAHBQ06XA3		•							
	40MAHBQ09XA3			•						
	40MAHBQ12XA3				•					
	40MAHBQ18XA3					•				
	40MAHBQ24XA3						•			
	40MAHBQ30XA3							•		
Cassette	40MBCQ09---3			•						
	40MBCQ12---3				•					
	40MBCQ18---3					•				
	40MBCAQ24XA3						•			
One-Way Cassette	40MCCAQ09XA3		•	•						
	40MCCAQ18XA3				•	•				
Ducted	40MBDQ09---3			•						
	40MBDAQ09XH3									
	40MBDQ12---3				•					
	40MBDAQ12XH3									
	40MBDQ18---3					•				
	40MBDAQ18XH3									
High Static Slim Ducted	40MBDQ24---3					•	•			
	40MBDAQ24XH3									
	40MBDAQ09XH3			•						
	40MBDAQ12XH3				•					
	40MBDAQ18XH3					•				
	40MBDAQ24XH3						•			
	40MBDAQ36XH3							•		
Console	40MBDAQ48XH3								•	
	40MBDAQ58XH3									•
	40MBFAQ12XA3				•					
	40MBFQ18---3					•				
	40MBFQ24---3						•			
	40MBABQ18XB3					• †				
Air Handler	40MBABQ24XB3						• †			
	40MBABQ30XB3							• †		
	40MBABQ36XB3								•	

Not available/compatible or Phased out

• Compatible

† Compatible with phased out outdoor unit models starting with serial number: 5122V10319, see TIC 2022-0021 for additional information

## PERFORMANCE™ SERIES

### 40MAHB HIGH WALL



# Performance™ High Wall

#### FEATURES

- Available in 208/230V (6-36K) or 115V (12K)
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Fully modulating fan speeds
- Sleep Mode
- Up-Down / Left-Right louver control (fixed or swing)
- ECO Mode
- Heating setback (46° F Heating Mode)
- Anti-corrosive fin coating

#### COMPATIBLE WITH:

- 38MARB Outdoor Unit Single Zone (p 24)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)

Performance  
SERIES

Sizes: 06 / 09 / 12 / 18 / 24 / 30 / 36  
(208-230V); Size 12 (115V)

#### KEY FEATURES

##### Time-saving Design

The unit disassembles quickly with a removable filter on top for simplified maintenance. The motor and blower can be serviced without removing the cabinet.

##### Improved Efficiency & Performance

ECO mode with intelligent eight-hour night cycle program saves up to 60% of energy for improved overnight comfort, efficiency and performance.

##### Customizable Comfort

Compatible with both single and multi-zone outdoor units for maximum flexibility.

#### CONTROLS

Wireless Remote Controller included with indoor unit  
Optional Wired Remote Controller KSACN0801AAA  
(7-Day Programmable)



**Wireless  
Remote Controller**



**Optional Wired  
Controller  
(7-Day  
Programmable)  
KSACN0801AAA**

#### ACCESSORIES

Wi-Fi® Kit KSAIF0601AAA

24V Interface for third-party thermostat compatibility KSAIC0301230

**PERFORMANCE™ SERIES**  
**40MAHB HIGH WALL**

Single Zone Residential

**SPECIFICATIONS:**

40MAHB High Wall									
Heat Pump									
System									
Size		12	6	9	12	18	24	30	36
Indoor Model		40MAHBQ12XA1	40MAHBQ06XA3	40MAHBQ09XA3	40MAHBQ12XA3	40MAHBQ18XA3	40MAHBQ24XA3	40MAHBQ30XA3	40MAHBQ36XA3
Electrical									
Voltage-Phase-Cycle	V-Ph-Hz	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor unit powered from outdoor unit							
MCA	A.	0.2500	0.3125	0.3125	0.3125	0.1625	0.6250	0.6250	0.6250
Controls									
Wireless Remote Controller (° F/° C Convertible)		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (° F/° C Convertible)		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
24V Interface for 3rd Party Thermostat Control		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Wi-Fi® for Phone App Control		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Operating Range									
Cooling Outdoor DB Min - Max	° F (° C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)
Heating Outdoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping									
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (16)	5/8 (16)	5/8 (16)
Indoor Coil									
Face Area	Sq. Ft.	2.15	2.15	2.15	2.15	2.75	3.60	3.60	3.60
No. Rows		2	2	2	2	2	3	3	3
Fins per inch		20	20	20	20	20	20	20	20
Circuits		3	3	3	3	4	7	7	7
Indoor									
Unit Width	in (mm)	31.3 (795)	31.3 (795)	31.3 (795)	31.3 (795)	37.99 (965)	44.88 (1140)	44.88 (1140)	44.88 (1140)
Unit Height	in (mm)	11.61 (295)	11.61 (295)	11.61 (295)	11.61 (295)	12.56 (319)	14.57 (370)	14.57 (370)	14.57 (370)
Unit Depth	in (mm)	8.86 (225)	8.86 (225)	8.86 (225)	8.86 (225)	9.41 (239)	10.83 (275)	10.83 (275)	10.83 (275)
Net Weight	lbs (kg)	22.93 (10.4)	22.71 (10.3)	22.71 (10.3)	22.93 (10.4)	27.12 (12.3)	43.65 (19.8)	43.65 (19.8)	43.65 (19.8)
Number of Fan Speeds		4	4	4	4	4	4	4	4
Airflow (lowest to highest)	CFM	235/294/353/412	176/229/335/382	176/229/335/382	176/229/335/382	306/376/524/635	319/414/611/719	382/505/646/843	382/506/639/843
Sound Pressure (lowest to highest)	dB(A)	24/30/41/47	32/34/38/47	32/34/38/47	30/32/37/47	37/40/46/48	37/39/44/52	38/41/46/52	39/41/46/52
Air Throw Data	ft (m)	27.9 (8.5)		24.9 (7.6)	26.2 (8.0)	27.9 (8.5)	31.5 (9.6)	33.8 (10.3)	33.8 (10.3)
Moisture Removal	Pint/h (L/h)	0.048 (0.023)		0.015 (0.007)	0.046 (0.022)	0.091 (0.044)	0.108 (0.052)	0.154 (0.074)	0.240 (0.115)
Field Drain Pipe Size O.D.	in (mm)	0.625 (16)	0.625 (16)	0.625 (16)	0.625 (16)	0.625 (16)	0.625 (16)	0.625 (16)	0.625 (16)

**COMPATIBILITY:**

Indoor Unit	40MAHBQ12XA1	40MAHBQ06XA3	40MAHBQ09XA3	40MAHBQ12XA3	40MAHBQ18XA3	40MAHBQ24XA3	40MAHBQ30XA3	40MAHBQ36XA3
Outdoor Unit Single Zone*	38MARBQ12AA1	38MARBQ06AA3	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AA3
Outdoor Unit Multi-Zone*			38MGRQ18B--3					
			38MGRQ24C--3					
			38MGRQ30D--3					
			38MGRQ36D--3					
			38MGRQ48E--3					

\*Performance may vary based on the compatible outdoor units. See respective pages for performance data.

## PERFORMANCE™ SERIES

### 40MCCAQ ONE-WAY CASSETTE



# Performance™ Cassette

## FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Four fan speeds
- Sleep Mode
- ECO Mode
- Quiet indoor operation
- Anti-corrosive fin coating

## COMPATIBLE WITH:

- 38MARB Outdoor Unit Single Zone (p 24)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)

Performance  
SERIES

Sizes: 06 / 09 / 12 / 18

Select sizes are ENERGY STAR® certified

## KEY FEATURES

### Flexible Installation

The one-way cassette is designed to be mounted between 16" joists for a range of installation applications, including corners.

### High Efficiency

Achieve up to 25.0 SEER2 and 12.4 HSPF2 with an indoor unit that's inherently energy efficient, no matter the mode.

### Dual Capacity

Experience this capability through a dipswitch setting on each one-way cassette indoor unit of the 6K/9K and 12K/18K sizes.

## CONTROLS

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller KSACN0101AAA (Timer Function)

Optional Wired Remote Controller KSACN0701AAA (7-Day Programmable)



**Wireless  
Remote  
Controller**



**Optional Wired  
Remote Controller with  
Timer Function  
KSACN0101AAA**



**Optional  
Wired Controller  
(7-Day Programmable)  
KSACN0701AAA**

## ACCESSORIES

Wi-Fi® Kit KSAIF0601AAA

24V Interface for compatibility with conventional thermostat KSAIC0301230

**PERFORMANCE™ SERIES**  
**40MCCAQ ONE-WAY CASSETTE**

**SPECIFICATIONS:**

40MCCAQ One-Way Cassette			
Heat Pump			
System			
Size		6/9*	12/18*
Indoor Model		40MCCAQ09XA3	40MCCAQ18XA3
Electrical			
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit	
MCA	A	3.0	3.0
Controls			
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Optional	Optional
Wi-Fi® for Phone App Control		Optional	Optional
Operating Range			
Cooling Indoor DB Min - Max	° F (° C)	60~90 (16~32)	60~90 (16~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)
Piping			
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)
Indoor Coil			
Face Area	Sq. Ft.	2.81	2.81
No. Rows		2	2
Fins per inch		20	20
Circuits		2	3
Indoor			
Unit Width	in (mm)	50.31 (1278)	50.31 (1278)
Unit Height	in (mm)	8.98 (228)	8.98 (228)
Unit Depth	in (mm)	13.19 (335)	13.19 (335)
Net Weight	lbs (kg)	43.87 (19.9)	43.87 (19.9)
Number of Fan Speeds		4	4
Airflow (lowest to highest)	CFM	235/259/294/341	247/282/312/353 - 12K 207/300/352/400 - 18K
Sound Pressure (lowest to highest)	dB(A)	35/37/38/40	37/40/42/43 - 12K 38/42/45/47 - 18K
Moisture Removal	Pint/h (L/h)	2.16 (1.02)	3.06 (1.45) - 12K 4.61 (2.18) - 18K

\*Refer to the installation instructions for capacity setting  
 Performance may vary based on the compatible outdoor units. See respective pages for performance data.

**COMPATIBILITY:**

Indoor Unit	40MCCAQ09XA3	40MCCAQ09XA3	40MCCAQ18XA3	40MCCAQ18XA3
Outdoor Unit Single Zone	38MARBQ06AA3	38MARBQ09AA3	38MARBQ12AA3*	38MARBQ18AA3*
Outdoor Unit Multi-Zone	38MGRBQ18BA3			
	38MGHBQ24CA3			
	38MGHBQ30DA3			
	38MGRBQ36DA3			
	38MGHBQ36DA3			
	38MGRBQ48EA3			
	38MGHBQ48EA3			

\*IDU must be set to the capacity size matching the ODU, refer to the installation instructions for more information.

## PERFORMANCE™ SERIES

### 40MBCQ CASSETTE



#### FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- Auto-restart function
- Louver control (fixed or swing)
- Three fan speeds
- Outside air intake
- Built-in condensate lift pump
- *Follow Me* (senses temperature at handheld remote)
- Heating setback (46° F Heating Mode)
- Quiet indoor operation, as low as 34 dB(A)
- Anti-corrosive fin coating
- Grille/ceiling panel 2" x 2" sizes 9 to 18  
40MBCQ01XXX3
- Grille/ceiling panel 3" x 3" size 24 P/N  
40MBCQ02XXX4

#### COMPATIBLE WITH:

- 38MARB Outdoor Unit Single Zone (p 24)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)

Performance  
SERIES

# Performance™ Cassette

Sizes: 09 / 12 / 18

#### KEY FEATURES

##### Built-in Condensate Lift Pump

The cassette is supplied with a condensate lift pump that is capable of lifting the water 29.5in. (750mm.) above the top of the unit.

##### Integrated Electrical Components

Easy maintenance with the circuit box right inside the unit. The integrated design provides a more compact size for easier installation.

#### CONTROLS

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller KSACN0101AAA  
(Timer Function)

Optional Wired Remote Controller KSACN0701AAA  
(7-Day Programmable)



**Optional  
Wired Controller  
(Timer Function)  
KSACN0101AAA**



**Optional  
Wired Controller  
(7-Day Programmable)  
KSACN0701AAA**



**Wireless  
Remote  
Controller**

#### ACCESSORIES

Wi-Fi® Smartphone control kit KSAIF0401AAA

24V Interface for compatibility with conventional thermostat  
KSAIC0301230

Grille is required; sold separately.



**SPECIFICATIONS:**

40MBCQ Cassette				
Heat Pump				
System				
Size		9	12	18
Indoor Model		40MBCQ09---3	40MBCQ12---3	40MBCQ18---3
Electrical				
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit		
MCA	A	0.2	0.2	0.2
Controls				
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Optional	Optional	Optional
Operating Range				
Cooling Indoor DB Min - Max	° F (° C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping				
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)
Indoor				
Body Unit Width	in (mm)	22.44 (570)	22.44 (570)	22.44 (570)
Body Unit Height	in (mm)	10.24 (260)	10.24 (260)	10.24 (260)
Body Unit Depth	in (mm)	22.44 (570)	22.44 (570)	22.44 (570)
Body Net Weight	lbs (kg)	35.27 (16)	35.27 (16)	39.68 (18)
Panel Unit Width	in (mm)	25.47 (647)	25.47 (647)	25.47 (647)
Panel Unit Height	in (mm)	1.97 (50)	1.97 (50)	1.97 (50)
Panel Unit Depth	in (mm)	25.47 (647)	25.47 (647)	25.47 (647)
Panel Net Weight	lbs (kg)	5.51 (2.5)	5.51 (2.5)	5.51 (2.5)
Number of Fan Speeds		3	3	3
Airflow (lowest to highest)	cfm	260/320/380	280/340/400	290/350/420
Sound Pressure (lowest to highest)	dB(A)	34/39/44	36/39/42	46/48/50
Air Throw Data	ft (m)	23 (7)	23 (7)	30 (9)
Moisture Removal	Pint/h (L/h)	1.58 (0.75)	2.88 (1.366)	4.26 (2.02)
Field Drain Pipe Size O.D.	in (mm)	1 (25.4)	1 (25.4)	1 (25.4)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

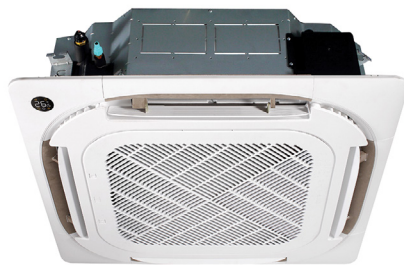
**COMPATIBILITY:**

Indoor Unit	40MBCQ09---3	40MBCQ12---3	40MBCQ18---3
Outdoor Unit Single Zone	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3
Outdoor Unit Multi-Zone	38MGRQ18B--3		
	38MGRQ24C--3		
	38MGRQ30D--3		
	38MGRQ36D--3		
	38MGRQ48E--3		

Backward compatible with 38MAQ Single Zone and 38MGQ Multi-Zone Systems

## PERFORMANCE™ SERIES

### 40MBCAQ CASSETTE



# Performance™ Cassette

#### FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto, Turbo
- Louver control (fixed or swing)
- Outside air intake
- Built-in condensate lift pump
- *Follow Me* (senses temperature at handheld remote)
- Heating setback (46° F Heating Mode)
- Quiet indoor operation
- Anti-corrosive fin coating

#### COMPATIBLE WITH:

- 38MARB Outdoor Unit Single Zone (p 24)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)

Performance  
SERIES

Size: 24

Select sizes are ENERGY STAR® certified based on indoor pairings

#### KEY FEATURES

##### Easier Service & Installation

The cassette is supplied with a condensate lift pump that is capable of lifting the water 29.5in. (750mm.) above the top of the unit.

##### Seamless Connection

Optimized Wi-Fi® connectivity means fewer installation steps for faster, more seamless connections.

##### Enhanced Design

A new, ergonomic design and larger vents for improved airflow means greater comfort from an unobtrusive indoor unit.

#### CONTROLS

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller KSACN0101AAA (timer function)

Optional Wired Remote Controller KSACN0701AAA (7 day programmable)



**Wireless  
Remote Controller**



**Optional Wired  
Controller  
(7-Day Programmable)  
KSACN0701AAA**

**SPECIFICATIONS:**

40MBCAQ Cassette		
Heat Pump		
System		
Size		24
Indoor Model		40MBCAQ24XA3
Electrical		
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit
MCA	A	1.0
Controls		
Wireless Remote Controller (° F / ° C Convertible)		Standard
Wired Remote Controller (° F / ° C Convertible)		Optional
Operating Range		
Cooling Indoor DB Min - Max	° F (° C)	60.8~90 (16~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)
Piping		
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	5/8 (15.9)
Indoor		
Body Unit Width	in (mm)	32.68 (830)
Body Unit Height	in (mm)	8.07 (205)
Body Unit Depth	in (mm)	32.68 (830)
Body Net Weight	lbs (kg)	47.18 (21.4)
Panel Unit Width	in (mm)	37.4 (950)
Panel Unit Height	in (mm)	2.17 (55)
Panel Unit Depth	in (mm)	37.4 (950)
Panel Net Weight	lbs (kg)	11.02 (5)
Number of Fan Speeds		4
Airflow (lowest to highest)	cfm	547/635/706/764
Sound Pressure (lowest to highest)	dB(A)	42/44/47/49
Air Throw Data	ft (m)	14.7 (4.5)
Moisture Removal	Pint/h (L/h)	5.6 (2.6)
Field Drain Pipe Size O.D.	in (mm)	1 (25.4)

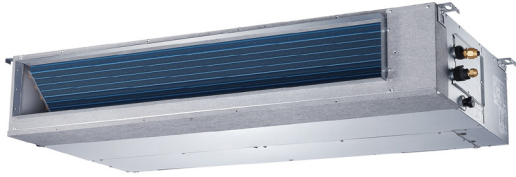
Performance may vary based on the Outdoor unit matched to. See compatible Outdoor Units pages for Performance Data

**COMPATIBILITY:**

Indoor Unit	40MBCAQ24XA3
Outdoor Unit Single Zone	38MARBQ24AA3
Outdoor Unit Multi-Zone	38MGRQ30D--3
	38MGRQ36D--3
	38MGRQ48E--3
	38MGHBQ30DA3
	38MGRBQ36DA3
	38MGHBQ36DA3
	38MGRBQ48EA3
	38MGHBQ48EA3

## PERFORMANCE™ SERIES

### 40MBDQ DUCTED



# Performance™ Ducted

## FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- Vertical or horizontal installation
- Up to 0.64 in W.C.
- Rear or bottom return
- Outside air intake
- *Follow Me* (senses temperature at handheld remote)
- Heating setback (46°F Heating Mode)
- Quiet indoor operation, as low as 30 dB(A)
- Anti-corrosive fin coating
- External condensate lift pump shipped with the unit (sizes 09-18)
- Built-in condensate lift pump (size 24)

## COMPATIBLE WITH:

- 38MARB Outdoor Unit Single Zone (p 24)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)

Performance  
SERIES

Sizes: 09 / 12 / 18 / 24

## KEY FEATURES

### Vertical or Horizontal Installation

Designed for maximum installation flexibility. The secondary drain built-in allows the unit to be mounted vertically allowing either a floor or ceiling-concealed installation depending on existing conditions.

### Flexible Air Intake

Air inlet can be installed either at the back or the bottom of the unit due to the small plate size on the flange, allowing for flexible installation to meet the needs of each job.

## CONTROLS

Wireless Remote Controller included with indoor unit

Wired Remote Controller KSACN0701AAA included with indoor unit (7-Day Programmable)



**Wired Controller  
(7-Day Programmable)  
KSACN0701AAA**



**Wireless  
Remote  
Controller**

## ACCESSORIES

Wi-Fi® kit KSAIF0401AAA

24V Interface for compatibility with conventional thermostat KSAIC0301230

**SPECIFICATIONS:**

40MBDQ Ducted					
Heat Pump					
System					
Size		9	12	18	24
Indoor Model		40MBDQ09---3	40MBDQ12---3	40MBDQ18---3	40MBDQ24---3
Electrical					
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit			
MCA	A	1.11	1.11	1.2	1.2
Controls					
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard	Standard
Operating Range					
Cooling Indoor DB Min - Max	° F (° C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping					
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (16)
Indoor					
Unit Width	in (mm)	27.56 (700)	27.56 (700)	34.65 (880)	43.31 (1100)
Unit Height	in (mm)	7.87 (200)	7.87 (200)	8.27 (210)	9.8 (249)
Unit Depth	in (mm)	19.92 (506)	19.92 (506)	26.54 (674)	30.47 (774)
Net Weight	lbs (kg)	43.56 (19.8)	43.56 (19.8)	54 (24.5)	86.86 (39.4)
Number of Fan Speeds		3	3	3	3
Airflow (lowest to highest)	cfm	147/211/264	176/282/353	300/400/480	440/700/780
Sound Pressure (lowest to highest)	dB(A)	30/34/38	35/37/39	35/37/39	35.5/40/44
Max Static Pressure	in W.C.	0.20	0.20	0.40	0.64
Field Drain Pipe Size O.D.	in (mm)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

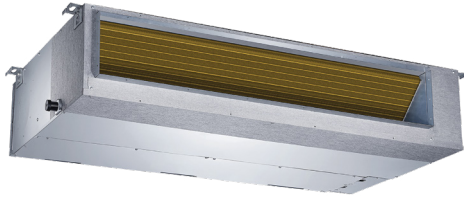
**COMPATIBILITY:**

Indoor Unit	40MBDQ09---3	40MBDQ12---3	40MBDQ18---3	40MBDQ24---3
Outdoor Unit Single Zone	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3
Outdoor Unit Multi-Zone	38MGRQ18B--3			
	38MGRQ24C--3			
	38MGRQ30D--3			
	38MGRQ36D--3			
	38MGRQ48E--3			

For Sizes 36 and 48, refer to the Light Commercial Section  
 Backward compatible with 38MAQ Single Zone and 38MGQ Multi-Zone Systems

## PERFORMANCE™ SERIES

### 40MBDAQ HIGH STATIC SLIM DUCTED



# Performance™ Slim Ducted

## FEATURES

- Vertical or horizontal installation (Except 58K)
- External static pressures of up to 0.80 in W.C.
- Constant air volume control
- Modes: Cool, Heat, Dry, Fan, Auto
- Rear or bottom return
- Outside air intake
- Built-in condensate lift pump
- *Follow Me* (senses temperature at handheld remote)
- Quiet indoor operation, as low as 35 dB(A)

## COMPATIBLE WITH:

- 38MARB Outdoor Unit Single Zone (p 24)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)

Performance  
SERIES

Sizes: 09 / 12 / 18 / 24

## KEY FEATURES

### Discrete Design

A slim duct design, recessed installation and exterior connection via flexible refrigerant tubing allow this unit to integrate seamlessly into existing architecture and new construction.

### Improved Indoor Air Quality

Each unit comes equipped with a washable, reusable filter for simple, cost-effective servicing. And with the ability to accommodate filters rated up to MERV 13, customers can benefit from the gold standard in indoor air quality technology without sacrificing performance or efficiency.

## CONTROLS

Wired Remote Controller KSACN0701AAA  
(7-Day Programmable)

Wired Remote Control with Timer Function  
KSACN0101AAA



**Wired Controller  
(7-Day Programmable)  
KSACN0701AAA**



**Wireless  
Remote  
Controller**

## ACCESSORIES

Wi-Fi® kit KSAIF0401AAA

24V Interface Kit 230V KSAIC0301230

**PERFORMANCE™ SERIES**  
**40MBDAQ HIGH STATIC SLIM DUCTED**

**SPECIFICATIONS:**

40MBDAQ High Static Slim Ducted					
Heat Pump					
System					
Size		9	12	18	24
Indoor Model		40MBDAQ09XH3	40MBDAQ12XH3	40MBDAQ18XH3	40MBDAQ24XH3
Electrical					
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit			
MCA	A	3.0	3.0	3.0	3.0
Controls					
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard	Standard
24V Interface for 3rd Part Thermostat Control		Optional	Optional	Optional	Optional
Wi-Fi® Control for Phone App Control		Optional	Optional	Optional	Optional
Operating Range					
Cooling Indoor DB Min - Max	° F (° C)	62~90 (16~32)	62~90 (16~32)	62~90 (16~32)	62~90 (16~32)
Heating Indoor DB Min - Max	° F (° C)	59~84 (15~29)	59~84 (15~29)	59~84 (15~29)	59~84 (15~29)
Piping					
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (16)
Indoor					
Unit Width	in (mm)	34.65 (880)	43.31 (1100)	43.31 (1100)	43.31 (1100)
Unit Height	in (mm)	8.27 (210)	9.8 (249)	9.8 (249)	9.8 (249)
Unit Depth	in (mm)	26.54 (674)	30.47 (774)	30.47 (774)	30.47 (774)
Net Weight	lbs (kg)	55.34 (25.1)	83.11 (37.7)	88.18 (40)	87.52 (39.7)
Number of Fan Speeds		3	3	3	3
Airflow (lowest to highest)	cfm	176/235/300	176/294/400	619/812/949	642/861/1045
Sound Pressure (lowest to highest)	dB(A)	30/32/38	36/37/39	29/33/36	33/36/38
Max Static Pressure	in W.C.	0.64	0.64	0.68	0.8
Field Drain Pipe Size O.D.	in (mm)	2.64 (1.25)	1.0 (25.4)	1.0 (25.4)	1.0 (25.4)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

**COMPATIBILITY:**

Indoor Unit	40MBDAQ09XH3	40MBDAQ12XH3	40MBDAQ18XH3	40MBDAQ24XH3
Outdoor Unit Single Zone	38MARBQ09AA3	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3
Outdoor Unit Multi-Zone	38MGHBQ24CA3			
		38MGHBQ30DA3		
		38MGRBQ36DA3		
		38MGHBQ36DA3		
		38MGRBQ48EA3		
	38MGHBQ48EA3			

For Sizes 36, 48 and 58, refer to the Light Commercial Section  
 Backward compatible with 38MAQ Single Zone and 38MGQ Multi-Zone Systems

## PERFORMANCE™ SERIES

### 40MBAB AIR HANDLER



# Performance™ Air Handler

## FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- 4-way installation (Up flow, Down flow, Right, Left)
- New aluminum coil
- Automatic Airflow Technology with static pressure up to 0.8 in W.C.
- Less than 2% air leakage
- Easy maintenance
- Quiet indoor operation
- Anti-corrosive fin coating

## COMPATIBLE WITH:

- 38MARB Outdoor Unit Single Zone (p 24)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)

Performance™  
SERIES

Size: 18 / 24 / 30 / 36

Select sizes are ENERGY STAR® certified based on indoor pairings

## KEY FEATURES

### Unmatched Maintenance Simplicity

With a top panel and an indoor coil that can be easily removed, get faster access to the core parts of the unit needed for service. You only need to remove two screws!

### Less Complex Electronics

Having only two integrated printed circuit boards means the electronic components are less complicated. One is the main control board, and the other is the function board for the 24V Interface, dip switch, wired controller and LED display.

### Easier Access to Electric Heater

This single-piece construction enables easy installation and maintenance.

### Modular Slide Design

The indoor coil can be easily pulled out through the slide track for quick and easy maintenance.

## CONTROLS

Wireless Remote Controller included with indoor unit  
24V Interface for third party thermostat compatibility built-in

## WARRANTY

Limited Warranty\*

10-year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years.

\*For residential applications. See warranty for full details.



**SPECIFICATIONS:**

40MBAB Air Handler							
Heat Pump							
System							
Size	18		24		30		
Indoor Model	40MBABQ18XB3		40MBABQ24XB3		40MBABQ30XB3		
Electrical							
Voltage-Phase-Cycle	V/Ph/Hz	208/230-1-60		208/230-1-60		208/230-1-60	
Power Supply	Indoor unit powered from outdoor unit						
MCA	A.	3		4		4.5	
Controls							
Wireless Remote Controller (° F / ° C Convertible)	Standard		Standard		Standard		
Wired Remote Controller (° F / ° C Convertible)	Standard		Standard		Standard		
Operating Range							
Cooling Indoor DB Min - Max	° F (° C)	62~90 (17~32)		60~90 (16~32)		60~90 (16~32)	
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)		32~86 (0~30)		32~86 (0~30)	
Piping							
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)		3/8 (9.52)		3/8 (9.52)	
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)		5/8 (16)		5/8 (16)	
Indoor							
Unit Width	in (mm)	17.5 (445)		17.5 (445)		21 (534)	
Unit Height	in (mm)	45 (1143)		45 (1143)		49 (1245)	
Unit Depth	in (mm)	21 (534)		21 (534)		21 (534)	
Net Weight	lbs (kg)	106.7 (48.4)		106.7 (48.4)		129.63 (58.8)	
Number of Fan Speeds	4		4		4		
Airflow (lowest to highest)	CFM	488/529/576/618		629/694/759/824		712/806/894/1088	
Sound Pressure - Cooling (lowest to highest)	dB(A)	35.2/35.7/36.4/37.2		38.2/39.9/41.0/42.5		35.8/38.1/40.4/42.7	
Sound Pressure - Heating (lowest to highest)	dB(A)	28.9/30.5/33.6/34.2		32.2/35.8/39.5/40.5		28.1/33.1/39.3/42.4	
Max Static Pressure	in W.C.	0.8		0.8		0.8	
Field Drain Pipe Size O.D.	in (mm)	3/4 (19.1)		3/4 (19.1)		3/4 (19.1)	

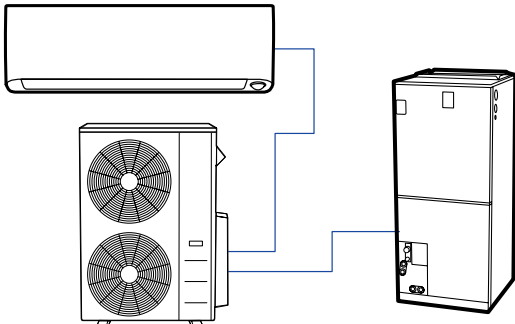
\*Performance may vary based on the compatible outdoor units. See respective pages for performance data.

**COMPATIBILITY:**

Indoor Unit	40MBABQ18XB3	40MBABQ24XB3	40MBABQ30XB3	40MBABQ36XB3
Outdoor Unit Single Zone	38MARBQ18AA3	38MARBQ24AA3	38MARBQ30AA3	38MARBQ36AB3
Outdoor Unit Multi-Zone	38MGHBQ24CA3			
	38MGHBQ30DA3	38MGHBQ30DA3		
	38MGRBQ36DA3	38MGRBQ36DA3		
	38MGHBQ36DA3	38MGHBQ36DA3		
	38MGRBQ48EA3	38MGRBQ48EA3	38MGRBQ48EA3	38MGRBQ48EA3
	38MGHBQ48EA3	38MGHBQ48EA3	38MGHBQ48EA3	38MGHBQ48EA3

Manufacturer reserves the right to discontinue, or change at any time, specification or designs without notice or incurring obligations.

**Multi-Zone configuration:**



## PERFORMANCE™ SERIES

### 40MBFAQ & 40MBFQ CONSOLE



**Floor Console Size 12**  
**40MBFAQ**



**Console Sizes 18 & 24**  
**40MBFQ**

### FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- Auto-restart function
- Louver control (fixed or swing)
- Three fan speeds
- Air discharge from top and bottom (size 12)
- *Follow Me* (senses temperature at handheld remote)
- Heating setback (46° F Heating Mode)
- Quiet indoor operation, as low as 37 dB(A)
- Anti-corrosive fin coating

### COMPATIBLE WITH:

- 38MARB Outdoor Unit  
Single Zone (p 24)
- 38MGRB & 38MGHB  
Outdoor Unit Multi-Zone (p 54)

Performance  
SERIES

# Performance™ Console

Sizes: 12 / 18 /24

### KEY FEATURES

#### 2-Way Optional Air Outlet

Both up and down air-outlet or up air-outlet only.  
(Size 12 only.)

#### Outside Air Intake

Outside air is brought into the room via a connection pipe, which keeps the indoor air fresher and cleaner.  
(Sizes 18 to 24 only.)

### CONTROLS

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller KSACN0601AAA  
(7-Day Programmable) Size 12

Optional Wired Remote Controller KSACN0701AAA  
(7-Day Programmable) Sizes 18 and 24



**Optional  
Wired Controller  
(7-Day Programmable)**  
**KSACN0601AAA or  
KSACN0701AAA**



**Wireless  
Remote  
Controller**

### ACCESSORIES

Wi-Fi® kit KSAIF0401AAA (sizes 18–24)

24V Interface for compatibility with conventional thermostat KSAIC0301230

# PERFORMANCE™ SERIES

## 40MBFAQ & 40MBFQ CONSOLE

### SPECIFICATIONS:

40MBFAQ & 40MBFQ Console				
Heat Pump				
System				
Size		12	18	24
Indoor Model		40MBFAQ12---3	40MBFQ18---3	40MBFQ24---3
Electrical				
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit		
MCA	A	0.29	1.0	1.0
Controls				
Wireless Remote Controller (° F / ° C Convertible)		Standard		
Wired Remote Controller (° F / ° C Convertible)		Optional		
Operating Range				
Cooling Indoor DB Min - Max	° F (° C)	63~90 (17~32)	62~90 (17~32)	62~90 (17~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping				
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	1/2 (12.7)	5/8 (16)
Indoor				
Unit Width	in (mm)	27.56 (700)	42.05 (1,068)	42.05 (1,068)
Unit Height	in (mm)	23.62 (600)	26.57 (675)	26.57 (675)
Unit Depth	in (mm)	8.27 (210)	9.25 (235)	9.25 (235)
Net Weight	lbs (kg)	32.41 (14.7)	55.12 (25)	58.42 (26.5)
Number of Fan Speeds		3	3	3
Airflow (lowest to highest)	cfm	220/250/280	420/485/550	600/710/760
Sound Pressure (lowest to highest)	dB(A)	34/41/45	39/44/47	46/50/52
Air Throw Data	ft (m)	23 (7)	26 (8)	26 (8)
Field Drain Pipe Size O.D.	in (mm)	1 (25.4)	1 (25.4)	1 (25.4)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

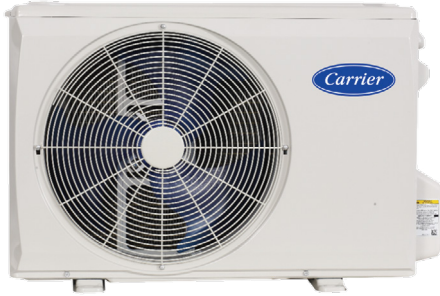
### COMPATIBILITY:

Indoor Unit	40MBFAQ12---3	40MBFQ18---3	40MBFQ24---3
Outdoor Unit Single Zone	38MARBQ12AA3	38MARBQ18AA3	38MARBQ24AA3
Outdoor Unit Multi-Zone	38MGRQ18B--3		
	38MGRQ24C--3		
	38MGRQ30D--3		
	38MGRQ36D--3		
	38MGRQ48E--3		

Backward compatible with 38MAQ Single Zone and 38MGQ Multi-Zone Systems

**COMFORT™ SERIES**

38MHRDC &amp; 38MHRCQ OUTDOOR UNIT



# Comfort™ Heat Pump

**FEATURES**

- Cost competitive
- Built-in basepan heater
- Auto-restart function
- Condenser high-temperature protection
- Refrigerant leakage detection
- Quiet outdoor operation
- Anti-corrosive fin coating

**COMPATIBLE WITH:**

- 40MHHAC High Wall Cooling only (p 48)
- 40MHHAQ High Wall Heat Pump (p 48)

**Comfort™**  
SERIES

**Cooling Only — 38MHRDC**

Sizes: 09 / 12 / 18 / 24

**Heat Pump — 38MHRCQ**

Sizes: 09 / 12 / 18 / 24 / 30 / 36

Up to 21.5 SEER2

(Size 9K only)

Up to 9.4 HSPF2

**KEY FEATURES****Easy Maintenance**

Simple and fast installation and maintenance means less system downtime and costs.

**Small Physical Size**

With an optimized cabinet design and small footprint, the unit is unobtrusive and quiet.

SPECIFICATIONS:

38MHRCQ Outdoor Unit									
Heat Pump									
System									
Size		09	12	09	12	18	24	30	36
Outdoor Model		38MHRCQ09AA1	38MHRCQ12AA1	38MHRCQ09AA3	38MHRCQ12AA3	38MHRCQ18AA3	38MHRCQ24AA3	38MHRCQ30AA3	38MHRCQ36AA3
Electrical									
Voltage-Phase-Cycle	V-Ph-Hz	115-1-60	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	20	18.5	12.0	15	15	19	25	28
MOCP - Fuse Rating	A.	30	25	15	15	20	30	30	35
Operating Range									
Cooling Outdoor DB Min - Max	° F (° C)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)
Cooling Outdoor DB Min - Max	° F (° C)	0~86 (-17~30)	0~86 (-17~30)	0~86 (-17~30)	0~86 (-17~30)	0~86 (-17~30)	0~86 (-17~30)	0~86 (-17~30)	0~86 (-17~30)
Piping									
Total Piping Length	ft (m)	82 (25)	82 (25)	82 (25)	82 (25)	98.4 (30)	164 (50)	164 (50)	213 (65)
Piping Lift*	ft (m)	32 (10)	32 (10)	32 (10)	32 (10)	65.6 (20)	82 (25)	82 (25)	98.4 (30)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/8 (12.7)	1/2 (9.52)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)	5/8 (15.9)	5/8 (15.9)
Refrigerant									
Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	1.59 (0.72)	1.59 (0.72)	1.59 (0.72)	2.98 (1.35)	3.92 (1.78)	1.79 (0.81)	2.98 (1.35)	3.92 (1.78)
Compressor									
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Outdoor									
Unit Width	in (mm)	30.12 (765)	30.12 (765)	30.12 (765)	30.12 (765)	31.69 (805)	35.04 (890)	37.24 (946)	37.24 (946)
Unit Height	in (mm)	21.85 (555)	21.85 (555)	21.85 (555)	21.85 (555)	21.81 (554)	26.50 (673)	31.89 (810)	31.89 (810)
Unit Depth	in (mm)	11.93 (303)	11.93 (303)	11.93 (303)	11.93 (303)	12.99 (330)	13.46 (342)	16.14 (410)	16.14 (410)
Net Weight	lbs (kg)	57.76 (26.2)	62.17 (28.2)	55.11 (25.0)	59.30 (26.9)	73.85 (33.5)	97.88 (44.4)	142.86 (64.8)	150.13 (68.1)
Airflow	CFM	1,294	1,235	1,294	1,235	1,235	1,765	2,235	2,235
Sound Pressure	dB(A)	55	54	55	56	55	60	63	65

\*Condensing unit above or below indoor unit.

COMPATIBILITY:

Indoor Unit	Outdoor Unit								
	38MHRCQ09AA1	38MHRCQ12AA1	38MHRCQ09AA3	38MHRCQ12AA3	38MHRCQ18AA3	38MHRCQ24AA3	38MHRCQ30AA3	38MHRCQ36AA3	
High Wall	40MHHAQ09XA1	•							
	40MHHAQ12XA1		•						
	40MHHAQ09XA3			•					
	40MHHAQ12XA3				•				
	40MHHAQ18XA3					•			
	40MHHAQ24XA3						•		
	40MHHAQ30XA3							•	
	40MHHAQ36XA3								•

Backward compatible with 38MHRBQ Single Zone Systems

# COMFORT™ SERIES 38MHR OUTDOOR UNIT

## PERFORMANCE:

40MHHAQ High Wall								
Heat Pump								
Indoor Unit	40MHHAQ09XA1	40MHHAQ12XA1	40MHHAQ09XA3	40MHHAQ12XA3	40MHHAQ18XA3	40MHHAQ24XA3	40MHHAQ30XA3	40MHHAQ36XA3
ENERGY STAR®	NO	NO	NO	NO	NO	NO	NO	NO
Cooling System Tons	0.75	1.0	0.75	1.0	1.5	2.0	2.5	3.0
Cooling Rated Capacity	9,000	12,000	9,000	12,000	18,000	24,000	30,000	36,000
Cooling Cap. Range Min - Max	Btu/h 2,650~10,300	3,800~12,100	2,900~10,500	3,800~13,350	3,900~20,000	6,200~24,600	8,200~30,670	8,300~37,500
SEER2	21.5	20	21.5	20.5	19.5	18.5	21	18
EER2	12.5	10.3	12.6	10.8	11	9.5	12.2	9.5
Heating Rated Capacity (47° F)	Btu/h 10,000	12,000	10,000	12,000	18,800	24,000	30,000	36,000
Heating Rated Capacity (17° F)	Btu/h 5,800	7,000	5,800	7,000	11,400	16,300	20,000	20,000
Heating Maximum Capacity (17° F)	Btu/h 7,800	9,000	7,500	9,000	12,500	14,800	21,100	25,000
Heating Maximum Capacity (5° F)	Btu/h 7,500	6,272	7,300	8,000	11,700	15,400	17,800	20,000
Heating Cap. Range Min - Max	Btu/h 2,700~10,500	2,730~12,500	2,400~10,500	2,730~13,900	6,300~19,400	6,800~26,800	11,800~30,800	10,900~37,360
HSPF2	9.1	8.7	9.4	9.2	8.7	8.6	8.7	7.8
COP (47° F)	W/W 3.26	3.05	3.24	3.38	3.05	2.99	2.75	2.78
COP (17° F)	W/W 2.5	2.5	2.5	2.5	2.52	2.3	2.39	2.3
COP (5° F)	W/W 2.15	1.68	2.2	1.8	2.05	1.76	1.8	1.76

## PERFORMANCE:

40MHHAC High Wall					
Cooling Only					
Indoor Unit	40MHHAC09XA3	40MHHAC12XA1	40MHHAC12XA3	40MHHAC18XA3	40MHHAC24XA3
Outdoor Model	38MHRDC09AA3	38MHRDC12AA1	38MHRDC12AA3	38MHRDC18AA3	38MHRDC24AA3
Cooling Rated Capacity	Btu/h 9,000	12,000	12,000	18,000	24,000
Cooling System Tons	0.75	1.0	1.0	1.5	2.0
Cooling Cap. Range Min - Max	Btu/h 2800~11000	3300~12500	3030~12500	4200~18300	4700~23600
SEER2	20.5	21	21	21	20
EER2	12.5	11.9	12.0	11.3	10.2

An economical choice that can  
**provide comfort when you need it.**

**SPECIFICATIONS:**

38MRDC Outdoor Unit						
Cooling Only						
System						
Size		9	12	12	18	24
Outdoor Model		38MRDC09AA3	38MRDC12AA1	38MRDC12AA3	38MRDC18AA3	38MRDC24AA3
Electrical						
Voltage-Phase-Cycle	V/Ph/Hz	208/230-1-60	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	11	18	11	16	16
Recommended Fuse Size	A.	15	20	15	20	20
MOCP - Fuse Rating	A.	15	30	12	20	20
Max-Min Voltage*	V	253-187	127-104	253-187	253-187	253-187
Operating Range						
Cooling Outdoor DB Min - Max	° F (° C)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)	0~122 (-17~50)
Piping						
Total Piping Length	ft (m)	82 (25)	82 (25)	82 (25)	98 (30)	98 (30)
Piping Lift**	ft (m)	32 (10)	32 (10)	32 (10)	65 (20)	82 (25)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (16)
Refrigerant						
Type		R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	1.26 (0.57)	1.46 (0.66)	1.46 (0.66)	1.98 (0.9)	2.36 (1.07)
Metering Device		Capillary	Capillary	Capillary	Capillary	Capillary
Refrigerant						
Face Area	Sq. Ft.	3.73	3.75	3.75	4.15	4.78
No. Rows		1	1	1	2	2
Fins per inch		21	21	21	21	21
Circuits		2	2	2	2	4
Compressor						
Compressor Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Model		KSK103D33UEZ3	KSK103D33UEZ3	KSK103D33UEZ3	KSN140D58UFZ	KSN140D58UFZ
Oil Type		VG74	VG74	VG74	VG74	VG74
Oil Charge	Fl. Oz.	10.48	10.48	10.48	14.88	14.88
Rated Input Current of the Power Conversion Equipment	A.	6.7	14.0	7.0	11.5	15.5
Outdoor						
Unit Width	in (mm)	28.35 (720)	28.35 (720)	28.35 (720)	30.12 (765)	31.69 (805)
Unit Height	in (mm)	19.49 (495)	19.49 (495)	19.49 (495)	21.85 (555)	21.81 (554)
Unit Depth	in (mm)	10.63 (270)	10.63 (270)	10.63 (270)	11.93 (303)	12.99 (330)
Net Weight	lbs (kg)	54.45(24.7)	54.45(24.7)	54.45(24.7)	59.30 (26.9)	73.85 (33.5)
Airflow	CFM	1,059	1,059	1,059	1,235	1,353
Sound Pressure	dB(A)	54.0	54.0	54.5	55.5	56.5

\* Permissible limits of the voltage range at which the unit will operate satisfactorily

\*\* Condensing unit above or below indoor unit

**COMPATIBILITY:**

Indoor Unit		Outdoor Unit				
		38MRDC09AA3	38MRDC12AA1	38MRDC12AA3	38MRDC18AA3	38MRDC24AA3
High Wall	40MHHAC09XA3	•				
	40MHHAC12XA1		•			
	40MHHAC12XA3			•		
	40MHHAC18XA3				•	
	40MHHAC18XA3					•

**COMFORT™ SERIES**

40MHHAC &amp; 40MHHAQ HIGH WALL



# Comfort™ High Wall

**FEATURES**

- Available in 115V and 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Up-down right-left louver control (fixed or swing)
- Four fan speeds
- ECO Mode
- Anti-corrosive fin coating

**COMPATIBLE WITH:**

- 38MHRDC & 38MHRQC Outdoor Unit Single Zone (p 44)
- 38MGRB & 38MGHB Outdoor Unit Multi-Zone (p 54)

**Comfort™**  
SERIES

**Cooling Only - 40MHHAC**

Sizes: 09 / 12 / 18 / 24

**Heat Pump - 40MHHAQ**

Sizes: 09 / 12 / 18 / 24 / 30 / 36

**KEY FEATURES****Improved Serviceability**

Full access to the terminal connections and fan after lifting the front cover of the high wall for easy installation and service.

**Eco Mode**

An intelligent eight-hour night cycle program provides huge energy savings—up to 60%—while maintaining a comfortable sleeping environment.

**CONTROLS**

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller (7-Day Programmable)

Optional Wired Remote Controller with Timer Function



**Optional  
Wired Controller  
(7-Day Programmable)  
KSACN0901AAA**



**Wireless  
Remote  
Controller**



**Optional Wired  
Remote Controller  
with Timer Function  
KSACN0101AAA**

**ACCESSORIES**

Wi-Fi® kit KSAIF0601AAA

24V Interface for compatibility with conventional thermostat KSAIC0301230



**COMFORT™ SERIES**  
**40MHAC & 40MHQA HIGH WALL**

**SPECIFICATIONS:**

40MHAC High Wall						
Cooling Only						
System						
Size		09	12	12	18	24
Indoor Model		40MHAC09XA3	40MHAC12XA1	40MHAC12XA3	40MHAC18XA3	40MHAC24XA3
Electrical						
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit				
Controls						
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Optional	Optional	Optional	Optional	Optional
24V Interface for 3rd Party T-stat		Optional	N/A	Optional	Optional	Optional
Wi-Fi® Control for Phone App Control		Optional	Optional	Optional	Optional	Optional
Operating Range						
Cooling Indoor DB Min - Max	° F (° C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)
Piping						
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)	5/8 (15.9)
Indoor Coil						
Face Area	Sq. Ft.	1.66	2.05	2.05	2.71	2.67
No. Rows		2	2	2	2	2
Fins per inch		20	20	20	20	20
Circuits		2	2	2	4	4
Indoor						
Unit Width	in (mm)	28.7 (729)	31.57 (802)	31.57 (802)	38.23 (971)	42.60 (1082)
Unit Height	in (mm)	11.5 (292)	11.61 (295)	11.61 (295)	12.64 (321)	13.27 (337)
Unit Depth	in (mm)	7.87 (200)	7.87 (200)	7.87 (200)	8.98 (228)	9.21 (234)
Net Weight	lbs (kg)	17.37 (7.88)	19.18 (8.7)	18.96 (8.6)	24.69 (11.2)	29.98 (13.6)
Number of Fan Speeds		4	4	4	4	4
Airflow (lowest to highest)	CFM	147/206/246/312	212/253/333/347	194/232/324/347	306/353/471/500	400/471/588/706
Sound Pressure (lowest to highest)	dB(A)	31/32/36	32/36/41	31/36/41	31/38/44	33/41/48
Air Throw Data	ft (m)	22.6 (6.9)	24.3 (7.4)	24.3 (7.4)	26.2 (8)	27.2 (8.3)
Moisture Removal	Pint/h (L/h)	2.0 (0.97)	2.58 (1.22)	2.6 (1.23)	4.5 (2.14)	4.9 (2.34)
Field Drain Pipe Size O.D.	in (mm)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

# COMFORT™ SERIES 40MHHA HIGH WALL

## SPECIFICATIONS:

40MHHAQ High Wall									
Heat Pump									
System									
Size		09	12	09	12	18	24	30	36
Indoor Model		40MHHAQ09XA1	40MHHAQ12XA1	40MHHAQ09XA3	40MHHAQ12XA3	40MHHAQ18XA3	40MHHAQ24XA3	40MHHAQ30XA3	40MHHAQ36XA3
Electrical									
Voltage, Phase, Cycle	V/Ph/Hz	115-1-60	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit							
MCA	A	0.31	0.31	0.19	0.19	0.50	0.63	0.63	0.63
Controls									
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Operating Range									
Cooling Indoor DB Min - Max	° F (° C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping									
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	3/8 (9.52)	1/2 (12.7)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)
Indoor									
Unit Width	in (mm)	28.7 (729)	31.57 (802)	28.7 (729)	31.57 (802)	38.23 (971)	42.60 (1082)	49.57 (1259)	49.57 (1259)
Unit Height	in (mm)	11.5 (292)	11.61 (295)	11.5 (292)	11.61 (295)	12.64 (321)	13.27 (337)	14.25 (362)	14.25 (362)
Unit Depth	in (mm)	7.87 (200)	7.87 (200)	7.87 (200)	7.87 (200)	8.98 (228)	9.21 (234)	11.14 (283)	11.14 (283)
Net Weight	lbs (kg)	17.64 (8.0)	18.52 (8.4)	17.64 (8.0)	18.74 (8.5)	24.47 (11.1)	29.98 (13.6)	42.99 (19.5)	42.77 (19.4)
Number of Fan Speeds		4	4	4	4	4	4	4	4
Airflow (lowest to highest)	cfm	137/170/ 239/312	176/241/ 300/341	141/176/ 246/312	156/197/ 291/347	271/329/ 459/550	330/402/ 546/728	380/536/ 702/741	330/447/ 753/795
Sound Pressure (lowest to highest)	dB(A)	28/32/36/43	30/36/40/44	27/31/36/43	30/35/40/45	31/38/44/49	32/38/44/51	34/40/44/50	36/38/43/51
Air Throw Data	ft (m)	22.6 (6.9)	24.3 (7.4)	22.6 (6.9)	24.3 (7.4)	26.2 (8.0)	27.2 (8.3)	29.8 (9.1)	31.2 (9.5)
Moisture Removal	Pint/h (L/h)	1.5 (0.69)	2.9 (1.39)	1.5 (0.69)	3.0 (1.47)	3.6 (1.72)	5.3 (2.54)	7.9 (3.73)	10.6 (5.03)
Field Drain Pipe Size O.D.	in (mm)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

**COMPATIBILITY:**

Cooling Only					
Indoor Unit	40MHHAC09XA3	40MHHAC12XA1	40MHHAC12XA3	40MHHAC18XA3	40MHHAC24XA3
Outdoor Unit Single Zone	38MHRDC09AA3				
		38MHRDC12AA1			
			38MHRDC12AA3		
				38MHRDC18AA3	
					38MHRDC24AA3

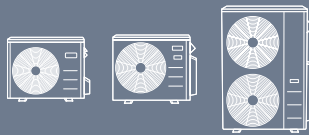
**COMPATIBILITY:**

Heat Pump								
Indoor Unit	40MHHAQ09XA1	40MHHAQ12XA1	40MHHAQ09XA3	40MHHAQ12XA3	40MHHAQ18XA3	40MHHAQ24XA3	40MHHAQ30XA3	40MHHAQ36XA3
Outdoor Unit Single Zone	38MGRQ18B--3							
		38MHRCQ12AA1						
			38MHRCQ09AA3					
				38MHRCQ12AA3				
					38MHRCQ18AA3			
						38MHRCQ24AA3		
							38MHRCQ30AA3	
								38MHRCQ36AA3

Backward compatible with 38MHRQ Single Zone.

# *MULTI-ZONE RESIDENTIAL*

### Multi-Zone Ductless



#### **38MGRB & 38MGHB Outdoor Unit**

Up to 26.0 SEER2  
Up to 10.5 HSPF2  
Sizes: 18 / 24HH / 30HH /  
36 / 36HH / 48 / 48HH

### Multi-Zone VRF



#### **38VMB-H Outdoor Unit**

Up to 19.2 SEER2  
Up to 9.2 HSPF2  
Sizes: 36 / 48 / 60



#### **MMYF-1P Heat Recovery System**

Sizes: 72 / 144



#### **MCY7 Heat Pump System**

Sizes: 36 / 48 / 60

**PERFORMANCE™ SERIES****38MGRB & 38MGHB OUTDOOR UNIT**

# High Performance Outdoor Unit for Customizable Indoor Comfort

**FEATURES**

- Cost competitive
- Built-in base pan heater
- Auto-restart function
- Quiet outdoor operation, as low as 59 dB(A)
- Anti-corrosive fin coating
- Total zones range from 2 to 5 indoor heads
- Piping length 131–328 ft. (40–100 m)
- Cooling operating range -22° – 122° F (-30° – 50° C)
- Heating operating range -22° – 75° F (-30° – 24° C)

**COMPATIBLE WITH:**

- 40MPHB High Wall (p 22)
- 40MAHB High Wall (p 28)
- 40MHHAC & 40MHHAQ High Wall (p 48)
- 40MCCAQ One-Way Cassette (p 30)
- 40MBCQ Cassette (p 32)
- 40MBCAQ Cassette (p 34)
- 40MBDQ Ducted (p 36)
- 40MBDAQ High Static Slim Ducted (p 38)
- 40MBAB Air Handler (p 40)
- 40MBFQ Console (p 42)
- 40MBFAQ Floor Console (p 42)

Performance  
SERIES

**Heat Pump With Basepan Heater**

Inverter Compressor

Sizes: 18 / 24HH / 30HH / 36 / 36HH / 48 / 48HH

Up to 26.0 SEER2

Up to 10.5 HSPF2

Select systems are ENERGY STAR® certified based on indoor pairings

**KEY FEATURES****Multi-Zone Compatibility**

Mix and match up to five indoor units to this outdoor unit to bring customizable comfort to multiple rooms or your whole home.

**Improved Performance**

With new high-heat models, plus standard heat models, experience high performance in cold climates and temps.

**Quiet Operation**

A sleek, unobtrusive outdoor unit that's ultra-quiet means less noise pollution and more peaceful outdoor spaces.

**COMBINATIONS:**

To access the Combination Charts, please see instructions on page 55.

**Note:** Multi-Zone units cannot heat and cool simultaneously.

# PERFORMANCE™ SERIES

## 38MGRB & 38MGHB OUTDOOR UNIT

### SPECIFICATIONS:

Multi-Zone Ductless

38MGRB & 38MGHB Outdoor Unit								
Heat Pump								
System								
Size		18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model		38MGRBQ18BA3	38MGHBQ24CA3	38MGHBQ30DA3	38MGRBQ36DA3	38MGHBQ36DA3	38MGRBQ48EA3	38MGHBQ48EA3
Max Number of Zones		2	3	4	4	4	5	5
Operating Range								
Cooling Outdoor DB Min - Max	° F (° C)	5~122 (-15~50)	5~122 (-15~50)	5~122 (-15~50)	5~122 (-15~50)	5~122 (-15~50)	5~122 (-15~50)	5~122 (-15~50)
Heating Outdoor DB Min - Max	° F (° C)	13~75 (-30~24)	-22~75 (-30~24)	-22~75 (-30~24)	13~75 (-30~24)	-22~75 (-30~24)	13~75 (-30~24)	-22~75 (-30~24)
Piping								
Total Piping Length	ft (m)	131 (40)	197 (60)	262 (80)	262 (80)	262 (80)	328 (100)	328 (100)
Piping to furthest FCU	ft (m)	82 (25)	98 (30)	115 (35)	115 (35)	115 (35)	115 (35)	115 (35)
Drop (OD above ID)	ft (m)	49 (15)	49 (15)	49 (15)	49 (15)	65 (20)	65 (20)	65 (20)
Lift (OD below ID)	ft (m)	49 (15)	49 (15)	49 (15)	49 (15)	65 (20)	65 (20)	65 (20)
Pipe Connection Size - Liquid	in (mm)	1/4*2 (6.35*2)	1/4*3 (6.35*3)	1/4*4 (6.35*4)	1/4*4 (6.35*4)	1/4*4 (6.35*4)	1/4*5 (6.35*5)	1/4*5 (6.35*5)
Pipe Connection Size - Suction	in (mm)	3/8*2 (9.52*2)	3/8*3 (9.52*3)	1/2 *1+ 3/8*3 (12.7*1+9.52*3)	1/2 *1+ 3/8*3 (12.7*1+9.52*3)	1/2 *2+ 3/8*2 (12.7*2+9.52*2)	1/2 *2+ 3/8*3 (12.7*2+9.52*3)	1/2 *2+ 3/8*3 (12.7*2+9.52*3)
Refrigerant								
Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	4.08 (1.85)	5.73 (2.6)	8.38 (3.8)	8.38 (3.8)	10.14 (4.6)	10.14 (4.6)	10.14 (4.6)
Electrical								
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor unit powered from outdoor unit						
MCA	A.	18	24.5	25	25	40	40	40
Recommended Fuse Size	A.	20	25	30	30	45	45	45
MOCP - Fuse Rating	A.	25	30	40	40	60	60	60
Compressor								
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Outdoor								
Unit Width	in (mm)	35.04 (890)	37.24 (946)	37.24 (946)	37.24 (946)	37.48 (952)	37.48 (952)	37.48 (952)
Unit Height	in (mm)	26.50 (673)	31.89 (810)	31.89 (810)	31.89 (810)	52.48 (1333)	52.48 (1333)	52.48 (1333)
Unit Depth	in (mm)	13.46 (342)	16.14 (410)	16.14 (410)	16.14 (410)	16.34 (415)	16.34 (415)	16.34 (415)
Net Weight	lbs (kg)	100.31 (45.5)	139.77 (63.4)	169.09 (76.7)	169.09 (76.7)	223.1 (101.2)	225.5 (102.3)	238.32 (108.1)
Airflow	CFM	1,765	2,129	2,147	2,147	4,500	4,500	4,500
Sound Pressure	dB(A)	59	61	63	63	64	64	65

# PERFORMANCE™ SERIES

## 38MGRB & 38MGHB OUTDOOR UNIT

### PERFORMANCE:

Non-Ducted								
Size		18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model		38MGRBQ18BA3	38MGHBQ24CA3	38MGHBQ30DA3	38MGRBQ36DA3	38MGHBQ36DA3	38MGRBQ48EA3	38MGHBQ48EA3
Max Number of Zones		2	3	4	4	4	5	5
ENERGY STAR®		YES	YES	YES	NO	YES	YES	NO
Cooling System Tons		1.5	2.0	2.5	3.0	3.0	4.0	4.0
Cooling Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	36,000	48,000	48,000
Cooling Cap. Range Min - Max	Btu/h	5,650~22,000	9,573~32,100	9,429~40,800	8,209~40,555	17,900~42,000	19,000~50,000	19,300~51,000
SEER2		22.9	24.6	26.0	23.9	22.2	23.4	21.8
EER2		13.9	13.4	13.0	11.7	13.6	12.5	11.7
Heating Rated Capacity (47° F)	Btu/h	19,000	25,000	30,000	37,000	36,500	48,000	49,000
Heating Maximum Capacity (5° F)	Btu/h	12,400	23,000	29,400	23,900	36,000	36,000	48,000
Heating Cap. Range Min - Max	Btu/h	5,050~24,400	8,439~33,930	8,118~41,400	8,008~44,632	12,500~49,000	12,500~52,000	11,500~58,000
HSPF2		10.5	10.0	9.8	9.5	10.5	8.7	9.8
COP (47° F)	W/W	3.92	4.10	3.81	3.61	3.85	3.60	3.59
COP (5° F) - Maximum	W/W	1.75	1.75	1.90	1.75	1.75	1.75	2.00

### PERFORMANCE:

Ducted								
Size		18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model		38MGRBQ18BA3	38MGHBQ24CA3	38MGHBQ30DA3	38MGRBQ36DA3	38MGHBQ36DA3	38MGRBQ48EA3	38MGHBQ48EA3
Max Number of Zones		2	3	4	4	4	5	5
ENERGY STAR®		NO	YES	NO	NO	NO	NO	NO
Cooling System Tons		1.5	2.0	2.5	3.0	3.0	4.0	4.0
Cooling Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	36,000	48,000	48,000
Cooling Cap. Range Min - Max	Btu/h	3,850~22,400	6,193~30,697	8,124~38,500	8,789~40,288	17,400~44,000	19,400~51,000	18,500~51,000
SEER2		19.0	21.3	20.0	20.0	19.0	20.5	20.9
EER2		12.0	12.5	12.0	11.0	11.7	10.8	11.7
Heating Rated Capacity (47° F)	Btu/h	19,000	24,000	30,000	37,000	37,000	50,000	50,000
Heating Maximum Capacity (5° F)	Btu/h	13,000	21,500	28,600	24,000	36,000	36,000	48,000
Heating Cap. Range Min - Max	Btu/h	4,350~25,800	7,394~33,700	6,652~43,200	6,900~46,624	13,300~47,000	15,500~56,000	12,000~59,000
HSPF2		9.8	9.7	9.2	9.2	10.0	9.7	8.9
COP (47° F)	W/W	3.80	3.81	3.81	3.60	3.74	3.57	3.86
COP (5° F) - Maximum	W/W	1.75	1.95	1.85	1.68	1.80	1.80	1.85



**PERFORMANCE™ SERIES**  
**38MGRB & 38MGHB OUTDOOR UNIT**

**PERFORMANCE:**

Combination Ducted and Non-Ducted								
Size		18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model		38MGRBQ18BA3	38MGHBQ24CA3	38MGHBQ30DA3	38MGRBQ36DA3	38MGHBQ36DA3	38MGRBQ48EA3	38MGHBQ48EA3
Max Number of Zones		2	3	4	4	4	5	5
ENERGY STAR®		YES	YES	NO	NO	YES	NO	NO
Cooling System Tons		1.5	2.0	2.5	3.0	3.0	4.0	4.0
Cooling Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	36,000	48,000	48,000
Cooling Cap. Range Min - Max	Btu/h	4,750~22,200	7,883~31,399	8,777~39,650	8,499~40,422	17,500~43,000	19,200~50,500	18,900~51,000
SEER2		20.9	22.9	23.0	21.95	20.6	21.9	21.3
EER2		12.9	12.9	12.5	11.35	12.6	11.6	11.7
Heating Rated Capacity (47° F)	Btu/h	19,000	24,500	30,000	37,000	36,750	49,000	49,500
Heating Maximum Capacity (5° F)	Btu/h	12,700	22,000	29,000	23,900	36,000	36,000	48,000
Heating Cap. Range Min - Max	Btu/h	4,700~25,100	7,917~33,815	7,385~42,300	7,454~45,628	12,900~48,000	14,000~54,000	11,750~58,500
HSPF2		10.1	9.8	9.5	9.35	10.1	9.2	9.3
COP (47° F)	W/W	3.86	3.96	3.81	3.61	3.80	3.59	3.73
COP (5° F) - Maximum	W/W	1.75	1.85	1.88	1.72	1.80	1.80	1.90

Multi-Zone Ductless

## SINGLE-PHASE VRF 38VMB-H OUTDOOR UNIT



# Single-Phase VRF Heat Pump

### FEATURES

- Up to 19.2 SEER2
- Up to 9.2 HSPF2
- 208/230-1-60Hz power supply
- Connect up to nine multiple-style indoor units on a 5-ton system
- High-performance outdoor unit with inverter-driven scroll compressor
- Cooling operating range 5° ~ 118° F
- Heating operating range -13° ~ 64° F
- Connected capacity up to 130%
- Quiet outdoor operation, as low as 58.7 dB(A)

### COMPATIBLE WITH:

40VMA, 40VMF, 40VMH, 40VML, 40VMM, 40VMR, 40VMU, 40VMV, 40VMW, 40VMC, 40VMI & 40VM9 (controller)

### VRF Heat Pump System

Sizes: 36K / 48K / 60K

36,000 to 60,000 Btu/h

3 to 5 tons

### KEY FEATURES

The Carrier 38VMB-H VRF heat pump system is a combination of an outdoor unit with multiple-style indoor units connected by refrigerant piping and wiring. The outdoor units have stacked dual-condenser fan with side-blow arrangement.

# SINGLE-PHASE VRF 38VMB-H OUTDOOR UNIT

## SPECIFICATIONS:

38VMB-H Outdoor Unit						
System						
Outdoor Unit Model Name			38VMB036HDS3-1	38VMB048HDS3-1	38VMB060HDS3-1	
Nominal Tons		Ton	3	4	5	
Performance						
Cooling Capacity (*1) (with non-ducted indoor units/ducted)	Nominal	kBtu/h	36,000	48,000	60,000	
	Rated	kBtu/h	36,000	48,000	60,000	
Heating Capacity (*1) (with non-ducted indoor units/ducted)	Nominal	kBtu/h	40,000	52,500	66,000	
	Rated	kBtu/h	40,000	52,500	66,000	
Performance Non-Ducted						
With Non-Ducted Indoor Units	Power Supply (*2)		208/230V, 1-Phase, 60Hz			
	Cooling	Power Consumption	kW	3.1	4.6	6.1
		SEER2 (Seasonal Energy Efficiency Ratio)	Btu/W*hr	19.2	19.0	18.6
	Heating	Power Consumption	kW	3.1	4.3	5.8
		HSPF2 (Heating Seasonal Performance Factor)	Btu/W*hr	9.2	8.9	8.7
Electrical Characteristics (Nominal) (*1)						
Performance Ducted						
With Ducted Indoor Units	Power Supply (*2)		208/230V, 1-Phase, 60Hz			
	Cooling	Power Consumption	kW	2.9	4.7	6.1
		SEER2 (Seasonal Energy Efficiency Ratio)	Btu/W*hr	17.3	17.0	15.9
	Heating	Power Consumption	kW	3.0	4.2	5.7
		HSPF2 (Heating Seasonal Performance Factor)	Btu/W*hr	9.1	8.5	8.0
Electrical Characteristics (Nominal) (*1)						
Dimensions						
Height			in	52-1/4		
Width			in	35-1/2		
Depth			in	15-3/4		
Total Weight	Unit			lb	220	
Compressor						
Type/Quantity		Inverter-Driven Hermetic Rotary/1				
Motor Output		kW	13			
Fan Unit						
Motor Output		W	90+90			
Air Volume		cfm	4,100			
Refrigerant (*3) (charged refrigerant amount)		lb	8.6			
Electrical Specifications	Unit	MCA (*4)	A	36	40	
		Recommended Fuse Size	A	40	40	
Piping						
Refrigerant Piping	Connecting Port Diameter	Gas Side (main pipe) (brazing)	in	5/8	3/4	
		Liquid Side (main pipe) (brazing)	in	3/8		
Operation Temperature Range						
Cooling		° F DB		5~118		
Heating		° F WB		-13~64		
Indoor						
Maximum Number of Connected Indoor Units			5	7	9	
Maximum Capacity of Combined Indoor Units			50 to 130%			
Sound Pressure Level Cooling/Heating (*5)		dB(A)	58.7	60.1	60.7	

Specifications subject to change.

(\*1) Rated conditions

Cooling: Indoor air temperature 80 o F dry bulb / 67 o F wet bulb, outdoor air temperature 95 o F dry bulb.  
Heating: Indoor air temperature 70 o F dry bulb, outdoor air temperature 47 o F dry bulb / 43 o F wet bulb.

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

(\*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*4) Select wire size based on larger value of MCA.

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

(\*5) These values, measured in anechoic chamber, at a point 1m in front of the unit at a height of 1.4 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

## TOSHIBA CARRIER

### MMYF-1P HEAT RECOVERY SYSTEM



# Toshiba Carrier VRF Heat Recovery

## FEATURES

- Available in 6-ton single module which can be twinned up to 12-ton capacity
- Ability to connect up to 25 indoor units
- High-performance outdoor units with all inverter-driven twin rotary compressor
- DC inverter condenser fan motor
- 208/230-1-60Hz voltage
- Cooling ambient operating temperature is 14° ~ 122° F
- Heating ambient operating temperature is -13° ~ 60° F
- Connected capacity up to 150%

## COMPATIBLE WITH:

The MMYF-SP heat recovery unit is matched with multiple VRF fan coils.

**TOSHIBA**  
*Carrier*

## 3-Pipe VRF Heat Recovery System

72,000 or 144,000 Btu/h  
6 or 12 tons

## KEY FEATURES

The Toshiba Carrier VRF system is a combination of an outdoor unit with multiple-style indoor units connected by refrigerant piping and wiring. The VRF heat recovery outdoor unit is a single module with twinning capability up to 12 tons to achieve greater capacity.

**SPECIFICATIONS:**

MMYF-1P Outdoor Unit				
System				
Outdoor Unit Set Model Name	MMY-		AP1446FT2P-UL	
Outdoor Unit Model Name	MMY-MAP		MAP0726FT2P-UL	
Nominal Tons		Ton	6	12
Performance				
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
Performance Non-Ducted				
With Non-ducted Indoor Units	Power Supply (*2)		208/230V, 1-Phase, 60Hz	
	Cooling	Power Consumption (*6)	kW	4.43
		IEER (Integrated Energy Efficiency Ratio)	Btu/W*hr	27.4
	Heating	Power Consumption (*6)	kW	5.98
SCHE (Simultaneous Cooling & Heating Efficiency)		Btu/W*hr	30.6	31.3
Performance Ducted				
With Ducted Indoor Units	Power Supply (*2)		208/230V, 1-Phase, 60Hz	
	Cooling	Power Consumption (*6)	kW	4.88
		IEER (Integrated Energy Efficiency Ratio)	Btu/W*hr	20.6
	Heating	Power Consumption (*6)	kW	6.10
SCHE (Simultaneous Cooling & Heating Efficiency)		Btu/W*hr	27.8	26.6
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
Compressor				
Type	Hermetic Twin Rotary Compressor			
Fan Unit				
Air Volume		cfm	5,900	5,900 x 2
Maximum External Static Pressure		in W.C.	0.24	0.24
Refrigerant (*3) (charged refrigerant amount)		lb	24.3	24.3 x 2
Electrical Specifications	Unit	MCA (*4)	A	47 + 47
		Recommended Fuse Size	A	50 + 50
Piping				
Refrigerant Piping	Connecting Port Diameter	Gas Side (main pipe) (brazing)	in	7/8
		Liquid Side (main pipe) (flare)	in	1/2
		Discharge (main pipe) (flare)	in	3/4
		Balance Pipe (flare)	in	3/8
Operation Temperature Range				
Cooling		° F DB	14~122	
Heating		° F WB	-13~60	
Indoor				
Maximum Number of Connected Indoor Units			12	25
Maximum Capacity of Combined Indoor Units			50 to 150%	
Sound Pressure Level Cooling/Heating (*5)		dB(A)	57/60	60/63

(\*1) Rated 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

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

(\*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*4) Select wire size based on the larger value of MCA.  
MCA: Minimum Circuit Amps (Minimum Circuit Amps required for power supply design).

(\*5) In case the diversity exceeds 135%, the type of indoor unit is limited and the maximum number of indoor unit is reduced.

(\*6) Only for outdoor unit.

**The standard pipe**  
144 type – 228 type  
**Equivalent piping length**  
25 ft., Height difference: 0 ft.

## TOSHIBA CARRIER MCY7 HEAT PUMP SYSTEM



# Toshiba Carrier VRF Single-Phase Heat Pump

### FEATURES

- Ability to connect up to nine multiple-style indoor units on a 5-ton system
- High-performance outdoor unit with inverter-driven twin rotary compressor
- 208/230-1-60Hz power supply
- Cooling operating range 23° ~ 122° F
- Heating operating range -13° ~ 60° F
- Connected capacity up to 135%
- Up to 23.1 SEER2 cooling efficiency
- Up to 10.9 HSPF2 heating efficiency
- Quiet outdoor operation

### COMPATIBLE WITH:

The MCY7 heat pump is matched with multiple VRF fan coils.

**TOSHIBA**  
*Carrier*

### VRF Heat Pump System

36,000 to 60,000 Btu/h

3 to 5 tons

### KEY FEATURES

The Toshiba Carrier VRF System is a combination of an outdoor unit with multiple-style indoor units connected by refrigerant piping and wiring. The outdoor units have stacked dual-condenser fan with side-blow arrangement.

**SPECIFICATIONS:**

MCY7 Outdoor Unit							
System							
Outdoor Unit Model Name	MCY-		MAP0367HS-UL	MAP0487HS-UL	MAP0607HS-UL		
Nominal Tons		Ton	3	4	5		
Performance							
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	
Performance Non-Ducted							
With Non-Ducted Indoor Units	Power Supply (*2)		208/230V, 1-Phase, 60Hz				
	Cooling	Power Consumption	kW	2.29	3.71	5.26	
		EER (Energy Efficiency Ratio)	Btu/W*hr	15.7	12.95	11.4	
	Heating	Power Consumption	kW	2.79	3.95	5.16	
		COP (Coefficient of Performance)	Btu/W*hr	4.20	4.01	3.75	
	SEER2 (Seasonal Energy Efficiency Ratio)				22.8	21.1	23.1
	HSPF2 (Heating Seasonal Performance Ratio)				10.9	9.4	10.6
Electrical Characteristics (Nominal) (*1)	Performance Ducted						
	Power Supply (*2)		208/230V, 1-Phase, 60Hz				
	Cooling	Power Consumption	kW	2.76	4.87	5.76	
		EER (Energy Efficiency Ratio)	Btu/W*hr	13.05	9.85	10.42	
	Heating	Power Consumption	kW	3.45	5.27	5.34	
		COP (Coefficient of Performance)	Btu/W*hr	3.40	3.0	3.62	
	SEER2 (Seasonal Energy Efficiency Ratio)				20.1	17.2	18.4
HSPF2 (Heating Seasonal Performance Ratio)				10.0	9.5	9.8	
With Ducted Indoor Units	Power Supply (*2)		208/230V, 1-Phase, 60Hz				
	Cooling	Power Consumption	kW	2.76	4.87	5.76	
		EER (Energy Efficiency Ratio)	Btu/W*hr	13.05	9.85	10.42	
	Heating	Power Consumption	kW	3.45	5.27	5.34	
		COP (Coefficient of Performance)	Btu/W*hr	3.40	3.0	3.62	
SEER2 (Seasonal Energy Efficiency Ratio)				20.1	17.2	18.4	
HSPF2 (Heating Seasonal Performance Ratio)				10.0	9.5	9.8	
Electrical Characteristics (Nominal) (*1)							
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						
Motor Output		kW	3.75	3.75	3.75		
Fan Unit							
Air Volume		cfm	4,520	4,690	4,850		
Refrigerant R410A (*3) (charged refrigerant amount)		lb	14.8	14.8	14.8		
Electrical Specifications	Unit	MCA (*4)	A	36.3	36.3	36.3	
		Recommended Fuse Size	A	40	40	40	
Piping							
Refrigerant Piping	Connecting Port Diameter	Gas Side (main pipe) (brazing)	in	5/8	5/8	3/4	
		Liquid Side (main pipe) (brazing)	in	3/8	3/8	3/8	
Operation Temperature Range							
Cooling		° F DB	23~122				
Heating		° F WB	-13~60				
Indoor							
Maximum Number of Connected Indoor Units			6	8	9		
Maximum Capacity of Combined Indoor Units			80 to 135%	80 to 135%	50 to 135%		
Sound Pressure Level Cooling/Heating (*5)		dB(A)	52/56	54/57	55/58		

(\*1) Rated 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.

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

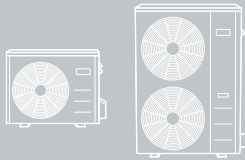
(\*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*4) Select wire size based on the larger value of MCA.

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

*LIGHT  
COMMERCIAL*





**38MBRC Outdoor Unit**

Up to 19.8 SEER2  
Up to 10.2 HSPF2  
Sizes: 36 / 48 / 58



**40MBCAQ Cassette**

Sizes: 36 / 48



**40MBDQ Ducted**

Sizes: 36 / 48 / 58



**40MBDAQ High Static Slim Ducted**

Sizes: 36 / 48 / 58



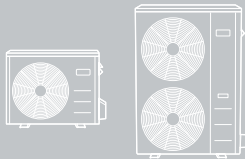
**40MBFQ Console**

Sizes: 36 / 48 / 58



**40MBAB Air Handler**

Sizes: 36 / 48 / 60



**38MURA Outdoor Unit**

Up to 18.0 SEER2  
Up to 9.8 HSPF2  
Sizes: 18 / 24 / 30 / 36 / 48 / 60



**40MUAA Air Handler**

Sizes: 18 / 24 / 30 / 36 / 48 / 60

**PERFORMANCE™ SERIES**  
**38MBRC OUTDOOR UNIT**



**36K**



**48K/58K**

# An Efficient Outdoor Unit with Easy Maintenance

**FEATURES**

- Variable speed compressor
- High efficiency ECM fan motor
- Factory installed base pan heater
- Factory installed crankcase heater
- Low voltage controls
- Auto-restart function
- Condenser high temperature protection
- Quiet operation
- Anti-corrosive fin coating

**COMPATIBLE WITH:**

- 40MBCAQ Cassette (p 70)
- 40MBDQ Ducted (p 72)
- 40MBDAQ High Static Slim Ducted (p 74)
- 40MBFQ Console (p 76)
- 40MBAB Air Handler (p 78)

**Outdoor Heat Pump Unit**

Inverter Compressor

Sizes: 36 / 48 / 58

Up to 19.8 SEER2

Up to 10.2 HSPF2

**KEY FEATURES**

**Premium Efficiency**

Enjoy increased energy savings with a unit equipped with inverter technology that delivers first-rate comfort and efficiency.

**Simple Maintenance**

With convenient access to the control compartment through both top and side panels, this outdoor unit makes servicing and maintenance a breeze.



**SPECIFICATIONS:**

38MBRC Outdoor Unit				
Heat Pump System				
Size		36K	48K	58K
Outdoor Model		38MBRCQ36AA3	38MBRCQ48AA3	38MBRCQ58AA3
Electrical				
Voltage-Phase-Cycle	V-Ph-Hz	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	30	35	35
MOCP - Fuse Rating	A.	50	50	50
Operating Range				
Cooling Outdoor DB Min - Max	° F (° C)	-22~130 (-30~55)	-22~130 (-30~55)	-22~130 (-30~55)
Heating Outdoor DB Min - Max	° F (° C)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)
Piping				
Total Piping Length	ft (m)	213 (65)	213 (65)	213 (65)
Piping Lift*	ft (m)	98 (30)	98 (30)	98 (30)
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	5/8 (16)	5/8 (16)	7/8 (22)
Refrigerant				
Type		R410A	R410A	R410A
Charge	lbs (kg)	6.72 (3.05)	9.26 (4.2)	10.58 (4.8)
Compressor				
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter
Dimensions				
Unit Width	in (mm)	37.24 (946)	37.48 (952)	37.48 (952)
Unit Height	in (mm)	31.89 (810)	52.48 (1333)	52.48 (1333)
Unit Depth	in (mm)	16.14 (410)	16.34 (415)	16.34 (415)
Net Weight	lbs (kg)	148.59 (67.4)	219.14 (99.4)	217.15 (98.5)
Airflow	CFM	2,130	4,500	4,500
Sound Pressure	dB(A)	63	62.5	61.2

\*Condensing unit above or below indoor unit.

**COMPATIBILITY:**

Indoor Unit		Outdoor Unit		
		38MBRCQ36AA3	38MBRCQ48AA3	38MBRCQ58AA3
Air Handler	40MBABQ36XA3	•		
	40MBABQ48XA3		•	
	40MBABQ60XA3			•
Cassette	40MBCAQ36XA3	•		
	40MBCAQ48XA3		•	
Console	40MBFQ36---3	•		
	40MBFQ48---3		•	
	40MBFQ58---3			•
Ducted	40MBDQ36---3	•		
	40MBDQ48---3		•	
	40MBDQ58---3			•
High Static Slim Ducted	40MBDAQ36XH3	•		
	40MBDAQ48XH3		•	
	40MBDAQ58XH3			•

# PERFORMANCE™ SERIES

## 38MBRC OUTDOOR UNIT

### PERFORMANCE:

40MBAB Air Handler				
Size		36K	48K	60K
Indoor Model		40MBABQ36XA3	40MBABQ48XA3	40MBABQ60XA3
Cooling System Tons		3.0	4.0	4.8
Cooling Rated Capacity	Btu/h	36,000	48,000	57,000
Cooling Cap. Range Min - Max	Btu/h	11,600-41,000	11,800~51,900	11,000~60,000
SEER2		15.4	15.3	16.0
EER2		8.2	8.2	9.6
Heating Rated Capacity (47° F)	Btu/h	38,000	55,000	60,000
Heating Rated Capacity (17° F)	Btu/h	25,600	37,500	34,000
Heating Maximum Capacity (17° F)	Btu/h	27,000	37,500	34,600
Heating Maximum Capacity (5° F)	Btu/h	22,000	31,000	33,000
Heating Cap. Range Min - Max	Btu/h	9,200-43,000	11,900~58,000	12,000~60,400
HSPF2		9.0	9.2	8.5
COP (47° F)	W/W	3.35	3.03	3.2
COP (17° F)	W/W	2.61	2.46	2.52
COP (5° F)	W/W	1.9	1.75	1.81

### PERFORMANCE:

40MBCAQ Cassette			
Size		36K	48K
Indoor Model		40MBCAQ36XA3	40MBCAQ48XA3
Cooling System Tons		3.0	4.0
Cooling Rated Capacity	Btu/h	36,000	48,000
Cooling Cap. Range Min - Max	Btu/h	12,400~36,000	16,600~48,000
SEER2		19.2	18.5
EER2		9.4	9.5
Heating Rated Capacity (47° F)	Btu/h	38,000	50,000
Heating Rated Capacity (17° F)	Btu/h	23,000	28,000
Heating Maximum Capacity (17° F)	Btu/h	25,300	37,900
Heating Maximum Capacity (5° F)	Btu/h	22,300	30,200
Heating Cap. Range Min - Max	Btu/h	11,200~38,000	11,850~52,000
HSPF2		8.8	9.8
COP (47° F)	W/W	3.01	3.1
COP (17° F)	W/W	1.9	1.8
COP (5° F)	W/W	2.02	1.92

**PERFORMANCE:**

40MBFQ Floor Console				
Size		36K	48K	58K
Indoor Model		40MBFQ36---3	40MBFQ48---3	40MBFQ58---3
Cooling System Tons		3.0	4.0	4.5
Cooling Rated Capacity	Btu/h	36,000	48,000	54,000
Cooling Cap. Range Min - Max	Btu/h	11,400~36,000	15,800~48,000	15,000~54,000
SEER2		19.0	18.9	19.8
EER2		8.5	9.3	9.8
Heating Rated Capacity (47° F)	Btu/h	38,000	50,000	60,000
Heating Rated Capacity (17° F)	Btu/h	23,000	29,000	35,000
Heating Maximum Capacity (17° F)	Btu/h	23,000	29,000	35,000
Heating Maximum Capacity (5° F)	Btu/h	22,000	28,000	30,000
Heating Cap. Range Min - Max	Btu/h	11,400~38,000	12,000~50,000	17,000~62,000
HSPF2		9.0	10.0	9.0
COP (47° F)	W/W	2.8	2.5	3
COP (17° F)	W/W	2.34	2.52	2.49
COP (5° F)	W/W	1.8	1.95	1.9

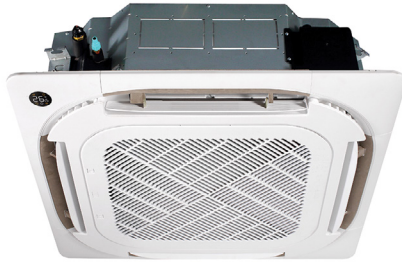
**PERFORMANCE:**

40MBDQ Ducted				
Size		36K	48K	58K
Indoor Model		40MBDQ36---3	40MBDQ48---3	40MBDQ58---3
Cooling System Tons		3.0	4.0	4.8
Cooling Rated Capacity	Btu/h	36,000	48,000	57,000
Cooling Cap. Range Min - Max	Btu/h	5,900~36,000	12,000~48,000	13,000~59,000
SEER2		15.8	15.1	17.0
EER2		8.8	8.5	10.3
Heating Rated Capacity (47° F)	Btu/h	40,000	50,000	60,000
Heating Rated Capacity (17° F)	Btu/h	27,000	29,000	35,400
Heating Maximum Capacity (17° F)	Btu/h	25,000	29,000	35,400
Heating Maximum Capacity (5° F)	Btu/h	22,000	32,000	35,000
Heating Cap. Range Min - Max	Btu/h	12,700~40,000	11,600~50,000	12,000~61,000
HSPF2		8.8	9.3	8.4
COP (47° F)	W/W	3.37	3	3.5
COP (17° F)	W/W	2.63	2.57	2.5
COP (5° F)	W/W	1.9	1.95	2.01

**PERFORMANCE:**

40MBDAQ High Static Slim Ducted				
Size		36K	48K	58K
Indoor Model		40MBDAQ36XH3	40MBDAQ48XH3	40MBDAQ58XH3
Cooling System Tons		3.00	4.00	4.92
Cooling Rated Capacity	Btu/h	36,000	48,000	59,000
Cooling Cap. Range Min - Max	Btu/h	8,900~37,000	10,500~48,800	12,000~62,000
SEER2		16.0	15.2	17.0
EER2		9.2	8.8	10.3
Heating Rated Capacity (47° F)	Btu/h	39,500	50,000	60,000
Heating Rated Capacity (17° F)	Btu/h	26,200	35,000	34,400
Heating Maximum Capacity (17° F)	Btu/h	26,400	35,600	31,000
Heating Maximum Capacity (5° F)	Btu/h	26,400	40,000	36,000
Heating Cap. Range Min - Max	Btu/h	12,800~42,000	11,000~55,600	12,000~60,000
HSPF2		10.2	9.7	8.4
COP (47° F)	W/W	3.18	3.19	3.52
COP (17° F)	W/W	2.52	2.36	2.46
COP (5° F)	W/W	2.08	1.93	2.00

**PERFORMANCE™ SERIES**  
**40MBCAQ CASSETTE**



# Performance™ Cassette

**FEATURES**

- Modes: Cool, Heat, Dry, Fan, Auto, Turbo
- Louver control (fixed or swing)
- Outside air intake
- Built-in condensate lift pump
- *Follow Me* (senses temperature at handheld remote)
- Heating setback (46° F Heating Mode)
- Quiet indoor operation
- Anti-corrosive fin coating

**COMPATIBLE WITH:**

- 38MBRC Outdoor Unit (p 66)



Sizes: 36 / 48

Select sizes are ENERGY STAR® certified based on indoor pairings

**KEY FEATURES**

**Easier Service & Installation**

The cassette is supplied with a condensate lift pump that is capable of lifting the water 29.5in. (750mm.) above the top of the unit.

**Seamless Connection**

Optimized Wi-Fi® connectivity means fewer installation steps for faster, more seamless connections.

**Enhanced Design**

A new, ergonomic design and larger vents for improved airflow means greater comfort from an unobtrusive indoor unit.

**CONTROLS**

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller KSACN0101AAA (timer function)

Optional Wired Remote Controller KSACN0701AAA (7 day programmable)



**Wireless  
 Remote Controller**



**Optional Wired  
 Controller  
 (7-Day Programmable)  
 KSACN0701AAA**

**SPECIFICATIONS:**

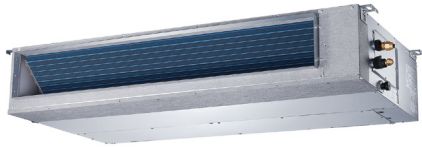
40MBCAQ Cassette			
Heat Pump			
System			
Size		36	48
Indoor Model		40MBCAQ36XA3	40MBCAQ48XA3
Electrical			
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit	
MCA	A	1.0	1.5
Controls			
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Optional	Optional
Operating Range			
Cooling Indoor DB Min - Max	° F (° C)	60.8~90 (16~32)	60.8~90 (16~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)
Piping			
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	5/8 (15.9)	5/8 (15.9)
Indoor			
Body Unit Width	in (mm)	32.68 (830)	32.68 (830)
Body Unit Height	in (mm)	9.65 (245)	11.3 (287)
Body Unit Depth	in (mm)	32.68 (830)	32.68 (830)
Body Net Weight	lbs (kg)	59.97 (27.2)	64.59 (29.3)
Panel Unit Width	in (mm)	37.4 (950)	37.4 (950)
Panel Unit Height	in (mm)	2.17 (55)	2.17 (55)
Panel Unit Depth	in (mm)	37.4 (950)	37.4 (950)
Panel Net Weight	lbs (kg)	11.02 (5)	11.02 (5)
Number of Fan Speeds		4	4
Airflow (lowest to highest)	cfm	753/853/947/1041	935/1059/1171/1288
Sound Pressure (lowest to highest)	dB(A)	46/49/51/53	49/52/54/56
Air Throw Data	ft (m)	16.4 (5)	16.4 (5)
Moisture Removal	Pint/h (L/h)	8.5 (4.0)	12.3 (5.8)
Field Drain Pipe Size O.D.	in (mm)	1 (25.4)	1 (25.4)

Performance may vary based on the Outdoor unit matched to. See compatible Outdoor Units pages for Performance Data

**COMPATIBILITY:**

Indoor Unit	40MBCAQ36XA3	40MBCAQ48XA3
Outdoor Unit	38MBRCQ36AA3	38MBRCQ48AA3

**PERFORMANCE™ SERIES**  
40MBDQ DUCTED



36K & 48K



58K

# Performance™ Commercial Ducted

**FEATURES**

- Modes: Cool, Heat, Dry, Fan, Auto
- Vertical (sizes 36 & 48) or horizontal installation
- Up to 0.8 in W.C.
- Rear or bottom return
- Outside air intake
- Built-in condensate lift pump
- *Follow Me* (senses temperature at handheld remote)
- Heating setback (46° F Heating Mode)
- Quiet indoor operation, as low as 38.5 dB(A)
- Anti-corrosive fin coating

**COMPATIBLE WITH:**

- 38MBRC Outdoor Unit (p 66)

Performance  
SERIES

Sizes: 36 / 48 / 58

**KEY FEATURES**

**Vertical or Horizontal Installation**

Designed for maximum installation flexibility. The secondary drain built-in allows the unit to be mounted vertically allowing either a floor or ceiling-concealed installation depending on existing conditions. (Sizes 36 and 48 only.)

**Built-in Condensate Lift Pump**

Supplied with a condensate lift pump that is capable of lifting the water 29.5in. (750mm.) above the top of the unit.

**CONTROLS**

Wireless Remote Controller included with indoor unit

Wired Remote KSACN0701AAA Controller (7-Day Programmable)



**Wired Controller  
(7-Day Programmable)  
KSACN0701AAA**



**Wireless  
Remote  
Controller**

**ACCESSORIES**

Wi-Fi® kit KSAIF0401AAA

24V Interface for third-party thermostat compatibility KSAIC0301230



**SPECIFICATIONS:**

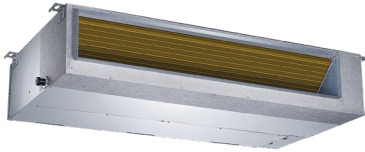
40MBDQ Ducted				
Heat Pump				
System				
Size		36	48	58
Indoor Model		40MBDQ36---3	40MBDQ48---3	40MBDQ58---3
Electrical				
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit		
MCA	A	2.45	3.2	3.65
Controls				
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard
Operating Range				
Cooling Indoor DB Min - Max	° F (° C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping				
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	5/8 (16)	5/8 (16)	3/4 (19)
Indoor				
Unit Width	in (mm)	53.54 (1,360)	47.24 (1,200)	55.12 (1,400)
Unit Height	in (mm)	9.8 (249)	11.81 (300)	17.32 (440)
Unit Depth	in (mm)	30.47 (774)	34.41 (874)	33.78 (858)
Net Weight	lbs (kg)	106.48 (48.3)	119.71 (54.3)	163 (74)
Number of Fan Speeds		3	3	3
Airflow (lowest to highest)	cfm	700/910/1,080	720/1,030/1,230	1,260/1,710/2,150
Sound Pressure (lowest to highest)	dB(A)	38.5/42/45.5	46/49.5/50.5	51/54/57
Max Static Pressure	in W.C.	0.64	0.64	0.80
Field Drain Pipe Size O.D.	in (mm)	1 (25.4)	1 (25.4)	1 (25.4)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

**COMPATIBILITY:**

Indoor Unit	40MBDQ36---3	40MBDQ48---3	40MBDQ58---3
Outdoor Unit	38MBRCQ36A--3	38MBRCQ48A--3	38MBRCQ58A--3

**PERFORMANCE™ SERIES**  
**40MBDAQ HIGH STATIC SLIM DUCTED**



**36K & 48K**



**58K**

# Performance™ Commercial Slim Ducted

**FEATURES**

- Vertical or horizontal installation (Except 58K)
- External static pressures 0.80 in W.C.
- Constant air volume control
- Modes: Cool, Heat, Dry, Fan, Auto
- Rear or bottom return
- Outside air intake
- Built-in condensate lift pump
- *Follow Me* (senses temperature at handheld remote)
- Quiet indoor operation, as low as 35 dB(A)

**COMPATIBLE WITH:**

- 38MBRC Outdoor Unit (p 66)



Sizes: 36 / 48 / 58

**KEY FEATURES**

**Discrete Design**

A slim duct design, recessed installation and exterior connection via flexible refrigerant tubing allow this unit to integrate seamlessly into existing architecture and new construction.

**Improved Indoor Air Quality**

Each unit comes equipped with a washable, reusable filter for simple, cost-effective servicing. And with the ability to accommodate filters rated up to MERV 13, customers can benefit from the gold standard in indoor air quality technology without sacrificing performance or efficiency.

**CONTROLS**

Wired Remote Controller KSACN0701AAA  
 (7-Day Programmable)

Wireless Remote Control with Timer Function  
 KSACN0101AAA



**Wired Controller  
 (7-Day Programmable)  
 KSACN0701AAA**



**Wireless  
 Remote  
 Controller**

**ACCESSORIES**

Wi-Fi® kit KSAIF0401AAA

24V Interface Kit 230V KSAIC0301230

**PERFORMANCE™ SERIES**  
40MBDAQ HIGH STATIC SLIM DUCTED:

**SPECIFICATIONS:**

40MBDAQ High Static Slim Ducted				
Heat Pump				
System				
Size		36	48	58
Indoor Model		40MBDAQ36XH3	40MBDAQ48XH3	40MBDAQ58XH3
Electrical				
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit		
MCA	A	3.0	4.0	5.0
Controls				
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard
24V Interface for 3rd Part Thermostat Control		Optional	Optional	Optional
Wi-Fi® Control for Phone App Control		Optional	Optional	Optional
Operating Range				
Cooling Indoor DB Min - Max	° F (° C)	62~90 (16~32)	62~90 (16~32)	62~90 (16~32)
Heating Indoor DB Min - Max	° F (° C)	59~84 (15~29)	59~84 (15~29)	59~84 (15~29)
Piping				
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	5/8 (16)	5/8 (15.9)	7/8 (22)
Indoor				
Unit Width	in (mm)	47.24 (1200)	47.24 (1200)	55.12 (1400)
Unit Height	in (mm)	11.81 (300)	11.81 (300)	18.11 (460)
Unit Depth	in (mm)	34.41 (874)	34.41 (874)	33.78 (858)
Net Weight	lbs (kg)	106.48 (48.3)	119.71 (54.3)	163 (74)
Number of Fan Speeds		3	3	3
Airflow (lowest to highest)	cfm	1000/1235/1588	1059/1588/1882	1262/1709/2156
Sound Pressure (lowest to highest)	dB(A)	36/41/45	45/51/54	50/53/57
Max Static Pressure	in W.C.	0.8	0.8	0.8
Field Drain Pipe Size O.D.	in (mm)	1.0 (25.4)	1.0 (25.4)	1.0 (25.4)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

**COMPATIBILITY:**

Indoor Unit	40MBDAQ36XH3	40MBDAQ48XH3	40MBDAQ58XH3
Outdoor Unit	38MBRCQ36AA3	38MBRCQ48AA3	38MBRCQ58AA3

**PERFORMANCE™ SERIES**  
**40MBFQ CONSOLE**



# Performance™ Commercial Console

**FEATURES**

- Modes: Cool, Heat, Dry, Fan, Auto
- Auto-restart function
- Capable to be mounted on floor and ceiling
- Louver control (fixed or swing)
- Three fan speeds
- *Follow Me* (senses temperature at handheld remote)
- Heating setback (46° F Heating Mode)
- Quiet indoor operation, as low as 43 dB(A)
- Anti-corrosive fin coating

**COMPATIBLE WITH:**

- 38MBRC Outdoor Unit (p 66)



Sizes: 36 / 48 / 58

**KEY FEATURES**

**Outside Air Intake**

Outside air is brought into the room via a connection pipe, which keeps the indoor air fresher and cleaner.

**Flexible Installation**

Can be installed on the floor or ceiling depending on the application need.

**CONTROLS**

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller KSACN0701AAA (7-Day Programmable)



**Optional  
 Wired Controller  
 (7-Day Programmable)  
 KSACN0701AAA**



**Wireless  
 Remote  
 Controller**

**ACCESSORIES**

Wi-Fi® kit KSAIF0401AAA

24V Interface for third-party thermostat compatibility KSAIC0301230

**SPECIFICATIONS:**

40MBFQ Console				
Heat Pump				
System				
Size		36	48	58
Indoor Model		40MBFQ36---3	40MBFQ48---3	40MBFQ58---3
Electrical				
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor Unit Powered From Outdoor Unit		
MCA	A	1.23	0.85	1.48
Controls				
Wireless Remote Controller (° F / ° C Convertible)		Standard	Standard	Standard
Wired Remote Controller (° F / ° C Convertible)		Optional	Optional	Optional
Operating Range				
Cooling Indoor DB Min - Max	° F (° C)	63~90 (17~32)	63~90 (17~32)	63~90 (17~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping				
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	5/8 (16)	5/8 (16)	3/4 (19)
Indoor				
Unit Width	in (mm)	50.59 (1,285)	64.96 (1,650)	64.96 (1,650)
Unit Height	in (mm)	9.25 (235)	9.25 (235)	9.25 (235)
Unit Depth	in (mm)	26.57 (675)	26.57 (675)	26.57 (675)
Net Weight	lbs (kg)	69 (31.3)	83.78 (38)	110 (50)
Number of Fan Speeds		3	3	3
Airflow (lowest to highest)	cfm	638/917/1,037	1,000/1,120/1,350	796/1,029/1,385
Sound Pressure (lowest to highest)	dB(A)	43/49/54	52/54/57	46/49/55
Air Throw Data	ft (m)	33 (10)	39 (12)	39 (12)
Field Drain Pipe Size O.D.	in (mm)	1 (25.4)	1 (25.4)	1 (25.4)

Performance may vary based on the compatible outdoor units. See respective pages for performance data.

**COMPATIBILITY:**

Indoor Unit	40MBFQ36---3	40MBFQ48---3	40MBFQ58---3
Outdoor Unit	38MBRCQ36A--3	38MBRCQ48A--3	38MBRCQ58A--3

## PERFORMANCE™ SERIES

### 40MBAB AIR HANDLER



#### FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- 4-way installation (Up flow, Down flow, Right, Left)
- New aluminum coil
- Automatic Airflow Technology with static pressure up to 0.8 in W.C.
- Less than 2% air leakage
- Easy maintenance
- Quiet indoor operation
- Anti-corrosive fin coating

#### COMPATIBLE WITH:

- 38MBRC Outdoor Unit

Performance  
SERIES

(p 66)

# Performance™ Air Handler

Size: 36 / 48 / 60

#### KEY FEATURES

##### Unmatched Maintenance Simplicity

With a top panel and an indoor coil that can be easily removed, get faster access to the core parts of the unit needed for service. You only need to remove two screws!

##### Less Complex Electronics

Having only two integrated printed circuit boards means the electronic components are less complicated. One is the main control board, and the other is the function board for the 24V Interface, dip switch, wired controller and LED display.

##### Easier Access to Electric Heater

This single-piece construction enables easy installation and maintenance.

##### Modular Slide Design

The indoor coil can be easily pulled out through the slide track for quick and easy maintenance.

#### CONTROLS

Wireless Remote Controller included with indoor unit  
24V Interface for third party thermostat compatibility built-in

#### WARRANTY

Limited Warranty\*

10-year limited to original purchaser on compressor and parts upon timely registration, otherwise 5 years.

**SPECIFICATIONS:**

40MBAB Air Handler				
Heat Pump				
System				
Size		36	48	60
Indoor Model		40MBABQ36XA3	40MBABQ48XA3	40MBABQ60XA3
Electrical				
Voltage-Phase-Cycle	V-Ph-Hz	208/230-1-60	208/230-1-60	208/230-1-60
Power Supply		Indoor unit powered from outdoor unit		
MCA	A.	5	7.5	9
Controls				
Wireless Remote Controller (° F/° C Convertible)		Standard	Standard	Standard
Wired Remote Controller (° F/° C Convertible)		Standard	Standard	Standard
Operating Range				
Cooling Indoor DB Min - Max	° F (° C)	60~90 (16~32)	60~90 (16~32)	60~90 (16~32)
Heating Indoor DB Min - Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
Piping				
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	5/8 (16)	5/8 (16)	7/8 (22)
Indoor				
Unit Width	in (mm)	21 (534)	21 (534)	24.5 (622)
Unit Height	in (mm)	49 (1245)	49 (1245)	53 (1346)
Unit Depth	in (mm)	21 (534)	21 (534)	21 (534)
Net Weight	lbs (kg)	129.63 (58.8)	132.5 (60.1)	164.02 (74.4)
Number of Fan Speeds		4	4	4
Airflow (lowest to highest)	CFM	865/971/1082/1188	906/1094/1282/1471	1135/1359/1582/1806
Sound Pressure - Cooling (lowest to highest)	dB(A)	41.4/44.0/48.5	44.6/47.7/51.0/53.7	45.7/47.5/51.2/53.3
Sound Pressure - Heating (lowest to highest)	dB(A)	33.9/39.0/45.1	43.4/47.8/50.5/53.8	39.4/44.9/50.1/51.0
Max Static Pressure	in W.C.	0.8	0.8	0.8
Field Drain Pipe Size O.D.	in (mm)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)

\*Performance may vary based on the compatible outdoor units. See respective pages for performance data.

**COMPATIBILITY:**

Indoor Unit	40MBABQ36XA3	40MBABQ48XA3	40MBABQ60XA3
Outdoor Unit	38MBRCQ36AA3	38MBRCQ48AA3	38MBRCQ58AA3

Manufacturer reserves the right to discontinue, or change at any time, specification or designs without notice or incurring obligations.

**PERFORMANCE™ SERIES**

38MURA OUTDOOR UNIT &amp; 40MUAA AIR HANDLER



# An Efficient Reliable System that's Ideal for Small Outdoor Spaces

**SYSTEM FEATURES**

- Anti-corrosive fin coating
- Traditional unitary line set sizes
- Quiet operation

**OUTDOOR FEATURES**

- Factory installed basepan heater
- Factory installed crankcase heater
- Low voltage controls
- 24V Interface pre-installed
- Standard heat and high heat options
- Auto-restart function
- Condenser high temp protection

**INDOOR FEATURES**

- Modes: Cool, Heat, Dry, Fan, Auto
- 4-way installation  
(Up flow, Down flow, Right, Left)
- New aluminum coil
- Automatic airflow technology with static pressure up to 0.8 in W.C.
- Less than 2% air leakage
- Easy maintenance

Performance  
SERIES

**Heat Pump with Basepan Heater**

Inverter-driven, variable speed, rotary compressor

Up to 18.0 SEER2

Up to 10.0 HSPF2

Sizes: 18 / 24 / 30 / 36 / 48 / 60

**KEY FEATURES****Minimal Footprint**

A low-profile, unobtrusive outdoor unit makes this system an ideal option for homes with zero lot lines or limited outdoor space.

**Whole-Home Solution**

This versatile, energy efficient system can be easily retrofitted to combine with existing connections, providing an efficiency upgrade for your entire home.

**CONTROLS**

Built-in 24V Interface for third-party thermostat control

**OPTIONAL ACCESSORIES**

Electric heater kit

7-day programmable wired controller

**LIMITED WARRANTY\***

10-year limited to original purchaser on compressor and parts upon timely registration. Otherwise, 5 years.

\*For residential applications. See warranty for full details.



**PERFORMANCE™ SERIES**  
**38MURA OUTDOOR UNIT**

Light Commercial

**SPECIFICATIONS:**

38MURA Outdoor Unit							
Heat Pump (Standard Heat)							
System							
Outdoor Size		1.5T	2T	2.5T	3T	4T	5T
Outdoor Model		38MURAQ18AA3	38MURAQ24AA3	38MURAQ30AA3	38MURAQ36AA3	38MURAQ48AA3	38MURAQ60AA3
Electrical							
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	16	19	20	24	34	34
Recommended Fuse Size	A.	20	20	25	25	35	35
MOPA - Fuse Rating	A.	20	30	35	40	50	60
Short Circuit Current Rating (SCCR)	kA	2.4	2.4	2.4	2.4	2.4	2.4
Operating Range							
Cooling Outdoor DB Min - Max	° F (° C)	5~130 (-15~55)	5~130 (-15~55)	5~130 (-15~55)	5~130 (-15~55)	5~130 (-15~55)	5~130 (-15~55)
Heating Outdoor DB Min - Max	° F (° C)	-5~86 (-15~30)	-5~86 (-15~30)	-5~86 (-15~30)	-5~86 (-15~30)	-5~86 (-15~30)	-5~86 (-15~30)
Piping							
Total Piping Length	ft (m)	98 (30)	164 (50)	164 (50)	213 (65)	213 (65)	213 (65)
Piping Lift*	ft (m)	65 (20)	82 (25)	82 (25)	98 (30)	98 (30)	98 (30)
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	7/8 (22)
Refrigerant							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	3.53 (1.6)	4.63 (2.1)	6.72 (3.05)	8.16 (3.7)	10.4 (4.7)	10.8 (4.9)
Add'l Refrigerant (between Std & Max Piping Lengths)	Oz/ft (g/m)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)
Metering Device		EEV	EEV	EEV	EEV	EEV	EEV
Outdoor Coil							
Face Area	Sq. Ft.	5	5.9	8.18	8.14	13.53	13.36
No. Rows		2	2	2.6	3	2	3
Fins per inch		20	20	18	18	18	18
Circuits		4	6	6	6	8	14
Compressor							
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Model		KSN140D21UFZ	KTM240D57UMT	KTF250D22UMT	KTF250D22UMT	KTQ420D1UMU	KTQ420D1UMU
Oil Type		VG74	VG74	VG74	VG74	VG74	VG74
Oil Charge	Fl. Oz.	14.9	22.7	22.7	22.7	47.3	47.3
Rated Current	RLA	9	14	16	17.6	24	24.6
Airflow & Sound							
Airflow	CFM	1,450	1,765	3,000	2,235	4,500	4,412
Sound Pressure	dB(A)	54	60	62	61	59	61

\* Condensing unit above or below indoor unit

**PERFORMANCE:**

38MURA Outdoor Unit							
Heat Pump (Standard Heat)							
Outdoor Size		1.5T	2T	2.5T	3T	4T	5T
M1 Ratings							
Cooling Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	47,000	57,000
Cooling Cap. Range Min - Max	Btu/h	5400~18700	7500~26000	9500~33000	8900~38900	10500~48000	4400~60200
SEER2		17.0	17.0	17.3	16.9	15.8	14.7
EER2		10.9	10.5	10.6	10.1	8.8	8.8
Heating Rated Capacity (47° F)	Btu/h	18,000	26,000	31,000	36,000	55,000	60,000
Heating Rated Capacity (17° F)	Btu/h	11,500	20,700	20,000	20,500	36,500	36,000
Heating Rated Capacity (5° F)	Btu/h	10,000	17,000	17,800	21,000	36,500	34,800
Heating Cap. Range Min - Max	Btu/h	5600~18700	5600~30000	12200~32000	6000~36400	11700~57000	11400~63100
HSPF2		8.8	9.2	8.5	8.2	9.4	8.5
COP (47° F)	W/W	3.50	3.45	3.25	3.39	3.15	3.45
COP (17° F)	W/W	2.75	2.40	2.45	2.40	2.30	2.35
COP (5° F)	W/W	1.90	2.00	1.75	1.88	1.98	1.89

# PERFORMANCE™ SERIES

## 38MURA OUTDOOR UNIT

### SPECIFICATIONS:

38MURA Outdoor Unit							
Heat Pump (High Heat)							
System							
Outdoor Size		1.5T - HH	2T - HH	2.5T - HH	3T - HH	4T - HH	5T - HH
Outdoor Model		38MURAQ18AB3	38MURAQ24AB3	38MURAQ30AB3	38MURAQ36AB3	38MURAQ48AB3	38MURAQ60AB3
Electrical							
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	16	20.5	23	41	42	42
Recommended Fuse Size	A.	20	25	25	45	45	45
MOCP - Fuse Rating	A.	20	35	35	50	50	60
Short Circuit Current Rating (SCCR)	kA	2.4	2.4	2.4	2.4	2.4	2.4
Operating Range							
Cooling Outdoor DB Min - Max	° F (° C)	-22~130 (-30~55)	-22~130 (-30~55)	-22~130 (-30~55)	-22~130 (-30~55)	-22~130 (-30~55)	-22~130 (-30~55)
Heating Outdoor DB Min - Max	° F (° C)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)
Piping							
Total Piping Length	ft (m)	98 (30)	164 (50)	164 (50)	213 (65)	213 (65)	213 (65)
Piping Lift*	ft (m)	65 (20)	82 (25)	82 (25)	98 (30)	98 (30)	98 (30)
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	7/8 (22)
Refrigerant							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	5.07 (2.3)	6.39 (2.9)	8.38 (3.8)	10.36 (4.7)	10.58 (4.8)	10.58 (4.8)
Add'l Refrigerant (between Std & Max Piping Lngths)	Oz/ft (g/m)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)
Metering Device		EEV	EEV	EEV	EEV	EEV	EEV
Outdoor Coil							
Face Area	Sq. Ft.	5.9	8.16	8.16	14.08	13.53	13.29
No. Rows		2	2	3	1.6	2	2.6
Fins per inch		20	20	20	18	18	20
Circuits		6	4	4	8	8	10
Compressor							
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Model		KTM240D57UMT	KTM240D57UMT	KTF310D43UMT	EAPQ420D1UMUA	EAPQ420D1UMUA	EAPQ440D1UMUA
Oil Type		VG74	VG74	VG74	VG74	VG74	VG75
Oil Charge	Fl. Oz.	22.7	22.7	33.8	49.4	49.4	43.96
Rated Current	RLA	10	15	16.5	32	33	28
Airflow & Sound							
Airflow	CFM	1,279	3,000	3,000	4,500	4,412	4,500
Sound Pressure	dB(A)	58	64	62	64	64	64

\* Condensing unit above or below indoor unit

### PERFORMANCE:

38MURA Outdoor Unit							
Heat Pump (High Heat)							
Outdoor Size		1.5T - HH	2T - HH	2.5T - HH	3T - HH	4T - HH	5T - HH
M1 Ratings							
Cooling Rated Capacity	Btu/h	18,000	24,000	30,000	36,000	47,000	55,000
Cooling Cap. Range Min - Max	Btu/h	6900~21000	6400~27000	10400~33600	12000~47400	18000~48000	18000~56000
SEER2		18.0	17.4	16.2	16.0	15.6	15.3
EER2		12.4	11.7	10.0	10.0	8.2	8.8
Heating Rated Capacity (47° F)	Btu/h	19,000	24,000	33,000	40,000	50,000	59,000
Heating Rated Capacity (17° F)	Btu/h	13,000	18,600	20,400	29,500	35,000	42,000
Heating Rated Capacity (5° F)	Btu/h	16,500	22,700	24,100	34,500	46,000	50,000
Heating Cap. Range Min - Max	Btu/h	2800~21000	10100~31000	12000~37000	9000~57200	20000~55000	20000~68000
HSPF2		9.3	10.0	8.9	9.5	9.4	9.4
COP (47° F)	W/W	3.60	3.40	3.30	3.35	3.15	3.00
COP (17° F)	W/W	2.50	2.40	2.30	2.40	2.30	2.60
COP (5° F)	W/W	2.00	1.85	1.80	1.95	1.90	1.96

**SPECIFICATIONS:**

40MUAA Air Handler							
System							
Indoor Size		18K	24K	30K	36K	48K	60K
Indoor Model		40MUAAQ18XA3	40MUAAQ24XA3	40MUAAQ30XA3	40MUAAQ36XA3	40MUAAQ48XA3	40MUAAQ60XA3
Electrical							
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	2.5	4	4.5	5	7.5	9
Recommended Fuse Size	A.	5	5	5	10	10	10
MOPA - Fuse Rating	A.	15	15	15	15	15	15
Operating Range							
Cooling Indoor DB Min - Max	° F (° C)	60~90 (16~32)	60~90 (16~32)	60~90 (16~32)	60~90 (16~32)	60~90 (16~32)	60~90 (16~32)
Heating Indoor DB Min - Max	° F (° C)	32~86(0~30)	32~86(0~30)	32~86(0~30)	32~86(0~30)	32~86(0~30)	32~86(0~30)
Piping							
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)	7/8 (22)
Refrigerant							
Refrigerant Type		R410A	R410A	R410A	R410A	R410A	R410A
Metering Device		EEV	EEV	EEV	EEV	EEV	EEV
Indoor Coil							
Face Area	Sq. Ft.	3	3	3.8	3.8	3.8	4.88
No. Rows		3	3	4	4	4	5
Fins Per Inch		20	20	20	20	20	20
Circuits		6	6	10	10	10	14
Airflow & Sound							
Number of Fan Speeds (low/med/high/turbo)		4	4	4	4	4	4
Airflow (lowest to highest)	CFM	488/529/576/618	629/694/759/824	712/806/894/1088	865/971/1082/1188	906/1094/1282/1471	1135/1359/1582/1806
Cooling Sound Pressure (low to high)	dB(A)	30.5/31.4/33.4/35.2	33.6/36.6/38.7/40.4	37.7/41.3/43.0/45.6	40.2/43.2/45.7/48.0	42.5/47.1/50.3/54.0	45.0/49.1/52.1/55.3
Heating Sound Pressure (low to high)	dB(A)	29.8/30.7/34.0/35.3	32.4/36.9/39.6/40.6	29.5/36.9/43.0/43.2	35.6/40.7/46.8/46.7	43.7/46.8/50.2/52.7	43.4/48.0/53.0/60.5
Max Static Pressure	in W.C.	0.8	0.8	0.8	0.8	0.8	0.8
Field Drain Pipe Size O.D.	in (mm)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)	3/4 (19.1)

**PERFORMANCE™ SERIES****35SCA5**

# Performance™ Outdoor Unit

**FEATURES**

- Available in 208/230V-1, 208/230V-3 and 460V-3
- WeatherArmor™ cabinet – All-steel cabinet construction – Mesh coil guard
- Quiet outdoor operation, as low as 66 dB(A)
- Piping length up to 250 ft.
- Cooling operating range -20° ~ 125° F (-28° ~ 52° C) (w/ Low-Ambient Kit)

**COMPATIBLE WITH:**

- Ducted Indoor Units

**Cooling Only – 35SCA5**

Fixed-Speed Compressor

Up to 17.1 SEER2

Sizes: 18 / 24 / 30 / 36 / 48 / 60

**KEY FEATURES****Longer Piping Lengths**

Piping flexibility up to a total piping length of 213 ft. (65m.).

**Low Ambient Cooling**

With built-in low ambient kit or special designed PCB, outdoor fan speeds can be changed automatically based on the temperature. The unit can run cooling operation even in low ambient temperatures.

Performance  
SERIES

**PHYSICAL DATA:**

		35SCA5					
Unit Size		18	24	30	36	48	60
Compressor Type		Scroll					
Refrigerant		Puron® (R-410A)					
Charge	lbs (kg)	7.50 (3.40)	6.80 (3.08)	8.70 (3.95)	9.40 (4.26)	10.50 (4.76)	10.50 (4.76)
Cond Fan		Propeller Type, Direct Drive					
Air Discharge		Horizontal					
Air Qty	CFM	1360	1530	1920	2615	2785	2785
Motor HP		1/3	1/3	1/10	1/4	1/4	1/3
Motor RPM	in (mm)	830	830	800	825	850	840
Cond Coil							
Face Area	Sq. ft.	7.5	7.5	12.3	12.3	14.4	14.4
Fins per In.		20	20	20	20	20	20
Rows		2	2	2	2	2	2
Circuits		2	3	3	3	4	4
Valve Connect	In. ID						
Vapor		5/8	3/4	3/4	7/8	7/8	7/8
Liquid		3/8					
Refrigerant Tubes*	In. OD						
Rated Vapor*		5/8	3/4	3/4	7/8	7/8	1-1/8
Max Liquid Line†		3/8					

\* Units are rated with 25ft.(7.6m) of lineset length. Review the Vapor Line Sizing and Cooling Capacity Loss section when using other lineset sizes and lengths of lineset.

† Liquid Line Sizing For Cooling Only Systems with Puron® (R-410A) Refrigerant Tables.

Note: Review the unit's Installation Instructions for proper installation guidance.

**TOSHIBA CARRIER**  
RAVAT2 OUTDOOR UNIT



# Toshiba Carrier Light Commercial Heat Pump

**FEATURES**

- Available in 208/230V
- Quiet outdoor operation, as low as 48 dB(A)
- Piping length 165 ~ 245 ft.
- Cooling operating range 5° ~ 115° F
- Heating operating range -13° ~ 59° F (-20° ~ 15° C)

Systems can be programmed to operate in cooling-only mode with heating locked out.

**COMPATIBLE WITH:**

- RAVKR2 High Wall (p 88)
- RAVUT2 Cassette (p 90)
- RAVBT2 Ducted (p 92)
- RAVCT2 Underceiling (p 94)



Inverter Compressor  
Up to 25.5 SEER2  
Up to 11.3 HSPF2  
Sizes: 12 / 18 / 24 / 30 / 36 / 42 / 48



**High Wall**



**Cassette**



**Ducted**



**Console**

Systems can be programmed to operate in cooling-only mode with heating locked out.

**SPECIFICATIONS:**

RAV System: Outdoor Model									
Model name	Outdoor unit	RAV -	SP122AT2P-UL	SP182AT2P-UL	SP242AT2P-UL	SP302AT2P-UL	SP362AT2P-UL	SP422AT2P-UL	SP482AT2P-UL
<b>Outdoor unit</b>									
Air flow volume	Cooling / Heating	CFM	1590 / 1590	1590 / 1590	2300 / 2220	3570 / 2870	3570 / 3100	3570 / 3290	4540 / 4060
Sound pressure level (High) (*2)	Cooling / Heating	dB(A)	48 / 52	48 / 52	52 / 54	54 / 54	54 / 54	54 / 54	60 / 60
External dimension	Height	in	21.7		35	52.8			
	Width	in	30.8		35.3	35.4			
	Depth	in	11.4		12.6	12.6			
Total weight	Main unit	lbs	99.2		141.1	218.3		233.7	
<b>Refrigerant</b>									
Refrigerant pipe	Min. length	ft	16-1/2						
	Max. total length	ft	164			246			
	Lift (ODU below IDU)	ft	98						
	Lift (ODU above IDU)	ft	98						
Refrigerant (*3) (Charged refrigerant amount)		lbs	3.75	3.75	5.51	6.83	6.83	7.27	7.27
<b>Flare connections</b>									
Gas side		in	1/2			5/8			
Liquid side		in	1/4			3/8			
<b>Operating range</b>									
Cooling		°F DB	5 to 115						
Cooling w/ wind baffles		°F DB	5 to 115			-13 to 115			
Heating		°F WB	-13 to 59						

**Note:**

(\*1) Rated conditions

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

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

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





(\*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*4) Select wire size based on larger value of MCA

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

(\*5) MOCP: Maximum Over Current Protection

**COMPATIBILITY:**

	 4-Way Cassette RAV-SPxxxUT-UL	 Underceiling RAV-SPxxxCT-UL	 Medium Static Ducted RAV-SPxxxBTP-UL	 High Wall RAV-SPxxxKRT-UL
<b>Outdoor Units</b>	<b>Indoor Units</b>			
Single-split SDI RAV-SP120AT2P-UL			•	•
Single-split SDI RAV-SP180/240/300/360AT2-UL	•	•	•	•
Single-split SDI RAV-SP420/480AT2-UL	•	•	•	

# TOSHIBA CARRIER RAVCR2 HIGH WALL



# Toshiba Carrier RAV High Wall

## FEATURES

- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- One-touch memory
- Sleep Mode
- Filter maintenance indicator
- Quiet indoor operation, as low as 28 dB(A)

## COMPATIBLE WITH:

- RAVAT2 Outdoor Unit  
Single Zone (p 86)



Sizes: 12 / 18 / 24 / 30 / 36

## CONTROLS

Wireless Remote Controller included with indoor unit  
Optional Wired Remote Controller (7-Day Programmable)



**Optional  
Wired Controller  
(7-Day Programmable)  
RBC-AWSU52-UL**



**Standard  
Wireless  
Controller**

## ACCESSORIES

- Condensate Pump (230V optional)
- Insulated 25' Line Set

Systems can be programmed to operate in cooling-only mode with heating locked out.



**SPECIFICATIONS:**

RAV System: High Wall							
Model name	Indoor unit	RAV -	SM122KRTP-UL	SM182KRTP-UL	SM242KRTP-UL	SM302KRTP-UL	SM362KRTP-UL
<b>Operating Range</b>							
Cooling	Capacity	kBtu/h	12	18	24	30	36
	SEER2		25.2	23.8	22.7	23.6	22
	EER2		15.7	12	11.8	13.1	10.5
Heating	Capacity	kBtu/h	14	20	27	34	40
	HSPF2		11.1	10.3	10.3	9.5	8.9
	COP		13.0	11.4	10.6	12.0	10.7
<b>Electrical</b>							
Electrical requirements	Power supply		1 Phase 208V/230V 60 Hz				
	MCA(*4)		14	14	17	30	30
	MOCP(*5)		25	25	25	40	40
<b>Indoor unit</b>							
External dimension	Height	in	12.6			13.7	
	Width	in	41.4			47.2	
	Depth	in	9.9			11	
Total weight			33.1			44.1	
Main unit	Standard airflow (H/M/L)	CFM	475 / 355 / 250	530 / 425 / 325	705 / 530 / 355	940 / 825 / 705	970 / 910 / 735
	Motor output	W	30	30	30	61	61
	Motor type		DC	DC	DC	DC	DC
Connecting pipe	Gas side	in	1/2			5/8	
	Liquide side	in	1/4			3/8	
	Drain port (nominal dia)	in	VP16 (Polyvinyl Chloride Tube: Dia. 0.87 Internal Dia. 0.63)				
Sound pressure level (H/M/L)(*2)		dB(A)	37 / 33 / 28	41 / 37 / 32	46 / 41 / 35	48 / 45 / 41	50 / 47 / 43

**Note:**

(\*1) Rated conditions

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

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

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

(\*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*4) Select wire size based on larger value of MCA

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

(\*5) MOCP: Maximum Over Current Protection

**TOSHIBA CARRIER**  
RAVUT2 CASSETTE



# Toshiba Carrier Cassette

**FEATURES**

- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- One-touch memory
- Sleep Mode
- Filter maintenance indicator
- Built-in condensate lift pump
- Outside air intake
- Branch duct capability
- Independent louver control (fixed or swing)
- Power-saving Mode
- Quiet indoor operation, as low as 32 dB(A)

**COMPATIBLE WITH:**

- RAVAT2 Outdoor Unit Single Zone (p 86)



Sizes: 18 / 24 / 30 / 36 / 42 / 48

**CONTROLS**

**Controller not included with indoor unit. Must order:**  
Optional Wireless Remote Controller  
Optional Wired Remote Controller



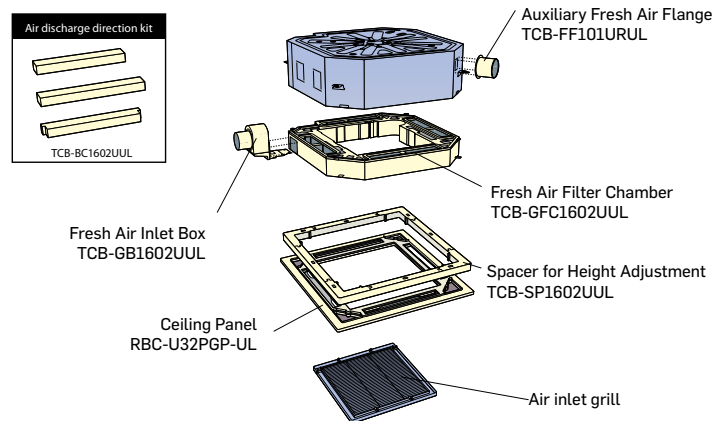
**Optional  
Wired Controller  
(7-Day Programmable)  
RBC-AWSU52-UL**



**Standard  
Wireless  
Controller**

**ACCESSORIES**

- Condensate Pump (230V optional)
- Insulated 25' Line Set
- Outside air intake
- Air-discharge direction kit



Systems can be programmed to operate in cooling-only mode with heating locked out.

**SPECIFICATIONS:**

RAV System: 4-Way Cassette								
Model name	Indoor unit	RAV -	SM182UTP-UL	SM242UTP-UL	SM302UTP-UL	SM362UTP-UL	SM422UTP-UL	SM482UTP-UL
<b>Operating Range</b>								
Cooling	Capacity(*1)	kBtu/h	18	24	30	36	42	48
	SEER2		25.5	23.7	23.7	24.3	22.6	22.4
	EER2		13.5	13	14	13.4	12	10.6
Heating	Capacity(*1)	kBtu/h	20	27	34	40	47	54
	HSPF2		11.3	10.7	11.2	11.1	10.2	9.8
	COP		13.90	13.2	13.8	13.3	12.0	11.0
<b>Electrical</b>								
Electrical requirements	Power supply		1 Phase 208V/230V 60 Hz					
	MCA(*4)	A	14	17	30	30	32	32
	MOCP(*5)	A	25	25	40	40	40	40
<b>Indoor unit</b>								
External dimension Main unit (Ceiling panel)*	Height	in	10.1 (1.2)			12.6 (1.2)		
	Width	in	33.1 (37.4)			33.1 (37.4)		
	Depth	in	33.1 (37.4)			33.1 (37.4)		
Total weight (Ceiling panel)*		lbs	56.3 (10)			65.1 (10)		
Main unit	Standard airflow (H/M/L)	CFM	670 / 540 / 470	730 / 630 / 510	1150 / 840 / 630	1200 / 850 / 650	1250 / 870 / 650	1300 / 1080 / 880
	Motor output	W	60	60	130	130	130	130
	Motor type		DC	DC	DC	DC	DC	DC
Connecting pipe	Gas side	in	1/2	5/8				
	Liquid side	in	1/4	3/8				
	Drain port (nominal dia)	in	VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1)					
Sound pressure level (H/M/L)(*2)		dB(A)	38 / 33 / 31	41 / 37 / 34	43 / 38 / 34	45 / 39 / 35	46 / 40 / 36	48 / 44 / 41

**Note:**

(\*1) Rated conditions

Cooling: Indoor air temperature 80°F dry bulb / 67°F wet bulb, Outdoor air temperature 95°F dry bulb  
Heating: Indoor air temperature 70°F dry bulb, Outdoor air temperature 47°F dry bulb / 43°F wet bulb

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

(\*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*4) Select wire size based on larger value of MCA

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

(\*5) MOCP: Maximum Over Current Protection

**TOSHIBA CARRIER**  
RAVBT2 DUCTED STYLE



# Toshiba Carrier Ducted

**FEATURES**

- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Up to 0.46 in W.C.
- Rear or bottom return
- Outside air intake
- Built-in condensate lift pump
- Quiet indoor operation, as low as 25 dB(A)

**COMPATIBLE WITH:**

- RAVAT2 Outdoor Unit  
Single Zone (p 86)



Sizes: 12 / 18 / 24 / 30 / 36 / 42 / 48

**CONTROLS**

**Controller not included with indoor unit. Must order:**  
Optional Wireless Remote Controller  
Optional Wired Remote Controller



**Optional  
Wired Controller  
(7-Day Programmable)  
RBC-AWSU52-UL**



**Optional  
Wireless  
Controller**

**ACCESSORIES**

Condensate Pump (208-230V optional)

Systems can be programmed to operate in cooling-only mode with heating locked out.

**SPECIFICATIONS:**

RAV System: Medium Static Ducted									
Model name	Indoor unit	RAV -	SM122BTP-UL	SM182BTP-UL	SM242BTP-UL	SM302BTP-UL	SM362BTP-UL	SM422BTP-UL	SM482BTP-UL
<b>Operating Range</b>									
Cooling	Capacity(*1)	kBtu/h	12	18	24	30	36	42	48
	SEER2		17.1	14.5	19.4	19.3	17.6	16.9	16.2
	EER2		12.2	9.8	12.4	12.5	11	9.5	8.5
Heating	Capacity(*1)	kBtu/h	14	20	27	34	40	47	54
	HSPF2		8.9	8.7	10.3	10.3	9.9	9	7.9
	COP		13.3	11.4	13.4	14.1	13.1	12.2	11.3
<b>Electrical</b>									
Electrical requirements	Power supply		1 Phase 208V/230V 60 Hz						
	MCA(*4)	A	14	14	17	30	30	32	32
	MOCP(*5)	A	25	25	25	40	40	40	40
<b>Indoor unit</b>									
External dimension	Height	in	10.9		10.9	10.9			
	Width	in	27.6		39.4	55.2			
	Depth	in	29.6		29.6	29.6			
Total weight		lbs	52.9		70.5	92.6			
Main unit	Standard airflow (H/M/L)	CFM	395 / 330 / 265	540 / 390 / 315	775 / 640 / 510	990 / 780 / 650	1130 / 920 / 790	1130 / 955 / 810	1175 / 1025 / 885
	Motor output	W	150	150	150	250	250	250	250
	Motor type		DC	DC	DC	DC	DC	DC	DC
Connecting pipe	Gas side	in	1/2			5/8			
	Liquid side	in	1/4			3/8			
	Drain port (nominal dia)	in	VP25 (Polyvinyl Chloride Tube: External Dia. 1-1/4 Internal Dia. 1)						
Sound pressure level (H/M/L)(*2)		dB(A)	33 / 29 / 25	34 / 30 / 26	36 / 31 / 27	37 / 34 / 31	38 / 35 / 32	38 / 35 / 32	40 / 36 / 33

**Note:**

(\*1) Rated conditions

Cooling: Indoor air temperature 80°F dry bulb / 67°F wet bulb, Outdoor air temperature 95°F dry bulb  
Heating: Indoor air temperature 70°F dry bulb, Outdoor air temperature 47°F dry bulb / 43°F wet bulb

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

(\*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*4) Select wire size based on larger value of MCA

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

(\*5) MOCP: Maximum Over Current Protection

**TOSHIBA CARRIER**  
RAVCT2 UNDERCEILING



# Toshiba Carrier Underceiling

**FEATURES**

- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Outside air intake
- Power-saving Mode
- Filter maintenance indicator
- Quiet indoor operation, as low as 32 dB(A)

**COMPATIBLE WITH:**

- RAVAT2 Outdoor Unit Single Zone (p 86)



Sizes: 18 / 24 / 30 / 36 / 42 / 48

**CONTROLS**

**Controller not included with indoor unit. Must order:**  
Optional Wireless Remote Controller  
Optional Wired Remote Controller



**Optional Wired Controller (7-Day Programmable) RBC-AWSU52-UL**



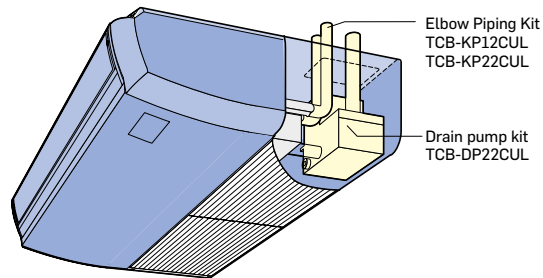
**Optional Wireless Controller**

**ACCESSORIES**

Condensate Pump (208-230V optional)

Elbow Piping Kit

Systems can be programmed to operate in cooling-only mode with heating locked out



**SPECIFICATIONS:**

RAV System: Underceiling								
Model name	Indoor unit	RAV -	SM182CTP-UL	SM242CTP-UL	SM302CTP-UL	SM362CTP-UL	SM422CTP-UL	SM482CTP-UL
<b>Operating Range</b>								
Cooling	Capacity	kBtu/h	18	24	30	36	42	48
	SEER2		23.6	23.2	22	22.4	19.6	19.4
	EER2		11.5	12.7	13	12.1	9.9	9.2
Heating	Capacity	kBtu/h	20	27	34	40	47	54
	HSPF2		10.7	10.4	10.4	11.1	10.7	10.3
	COP		13.1	12.9	12.2	12.5	11.5	11.1
<b>Electrical</b>								
Electrical requirements	Power supply		1 Phase 208V/230V 60 Hz					
	MCA(*4)	A	14	17	30	30	32	32
	MOCP(*5)	A	25	25	40	40	40	40
<b>Indoor unit</b>								
External dimension	Height	in	9.3	9.3	9.3			
	Width	in	37.5	50	62.5			
	Depth	in	27.2	27.2	27.2			
Total weight			52.9	66.1	83.8			
Main unit	Standard airflow (H/M/L)	CFM	565 / 425 / 320	845 / 600 / 440	845 / 600 / 440	1095 / 795 / 600	1095 / 900 / 705	1250 / 1125 / 925
	Motor output	W	94	94	94	139	139	139
	Motor type		DC	DC	DC	DC	DC	DC
Connecting pipe	Gas side	in	1/2	5/8				
	Liquid side	in	1/4	3/8				
	Drain port (nominal dia)		in	VP20 (Polyvinyl Chloride Tube: Dia. 1.1 Internal Dia 0.79)				
Sound pressure level (H/M/L)(*2)		dB(A)	37 / 35 / 28	41 / 36 / 29	43 / 36 / 33	44 / 38 / 32	44 / 41 / 35	47 / 45 / 41

**Note:**

(\*1) Rated conditions

Cooling: Indoor air temperature 80°F dry bulb / 67°F wet bulb, Outdoor air temperature 95°F dry bulb  
Heating: Indoor air temperature 70°F dry bulb, Outdoor air temperature 47°F dry bulb / 43°F wet bulb

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

(\*3) The amount does not consider extra piping length. Refrigerant must be added on site in accordance with the actual piping length.

(\*4) Select wire size based on larger value of MCA

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

(\*5) MOCP: Maximum Over Current Protection



# 24V Interface for Third-Party Thermostat

## FEATURES

- Control the ductless system using a third-party thermostat(\*1)
- One 24V Interface Kit per indoor head(\*2)
- Single and multi-zone applications
- Keeps the inverter compressor operating as a variable-speed system(\*3)
- Rated for outdoor and indoor mounting
- Dry mode contact for active dehumidification control
- Remote on/off contact
- Auxiliary heat control through the thermostat(\*4)
- Diagnostic code display LEDs
- Power supplied through the outdoor unit

## COMPATIBLE WITH:

- 40MPHB High Wall (p 22)
- 40MAHB High Wall (p 28)
- 40MCCAQ One-Way Cassette (p 30)
- 40MBCQ Cassette (p 32)
- 40MBCAQ Cassette (p 34)
- 40MHHAC & 40MHHAQ High Wall (p 48)
- 40MBDQ Ducted (p 72)
- 40MBDAQ High Static Slim Ducted (p 74)
- 40MBFQ Console (p 76)

Included in:

- 40MBAB Air Handler (p 78)
- 40MUAA Air Handler & 38MURA Outdoor Unit (p 80)

## KSAIC0301230 Ductless Indoor + Outdoor Single Zone 208–230V

### KEY FEATURES:

#### Maintain Inverter Compressor Technology

The new 24V Interface keeps the inverter compressor operating as a variable-speed system when using a third-party thermostat, making adjustments to maintain more consistent operation.

#### Easy & Flexible Installation

Experience quick and easy installation between either a single or multi-zone outdoor unit and the fan coil. The interface can be installed either indoors or outdoors.

#### Consumer Choice & Control

Consumers can choose the type of thermostat they want to use without adversely affecting the efficiency or performance of their ductless systems.

### ACCESSORIES:

115V Transformer RCD#11203103000393  
(Used only on ductless systems with 115V power.)

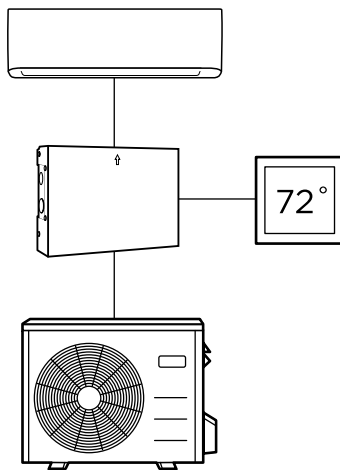


**COMPATIBILITY:**

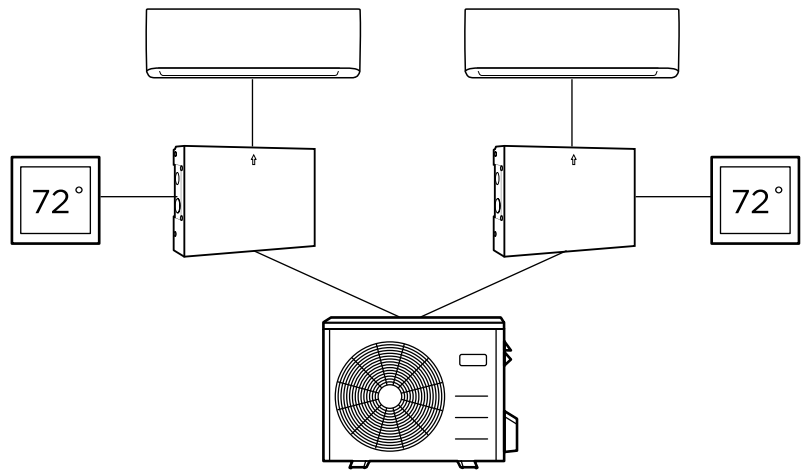
Compatibility Table				
Type of Indoor Unit	Indoor Family Name	Single Zone Outdoor Family Name	Multi-Zone Outdoor Family Name	208/230V
High Wall	40MPHB	38MPRB	38MGR	All Sizes
	40MAHB	38MARB	38MGR	All Sizes
	40MHHA	38MHR	38MGR	All Sizes
Cassette	40MCCAQ	38MARB	38MGR	All Sizes
	40MBCQ	38MARB	38MGR	All Sizes
	40MBCAQ	38MARB	38MGR	All Sizes
Ducted	40MBDQ	38MARB	38MGR	All Sizes Except Size 58 (See Note)
	40MBDAQ	38MARB	38MGR	All Sizes Except Size 58 (See Note)
Console	40MBFQ	38MARB	38MGR	All Sizes Except Sizes 12 and 58 (See Note)

**Note:** The indoor unit requires an updated control board for compatibility with the 24V Interface Kit. High Wall units starting with Serial #4316V10001 are shipped with the compatible control board. Ducted units starting with Serial #4616V10001 are shipped with the compatible control board. For other model numbers not shown on the table above, please contact your ductless representative. Ducted size 58 Console sizes 12 and 58 starting with serial #1419V1001 are shipped with compatible control board.

**Single Zone**



**Multi-Zone**



**Notes:**

- (\*1) Third-party thermostats used with the 24V Interface Kit will replace the wireless Remote Controller included with the unit. Consult with dealer for more information.
- (\*2) When using in a Multi-Zone System not all the indoor heads require a 24V Interface Kit.
- (\*3) A conventional 5-wire thermostat is required.
- (\*4) A secondary output is necessary for auxiliary heat control.

## COMPATIBILITY CONTROLS:



**Optional Wired Controller  
(7-Day Programmable)  
KSACN0601AAA, KSACN0701AAA  
KSACN0801AAA or KSACN0901AAA**

Indoor Unit Type			High Wall			Cassette	One-Way Cassette	Ducted	High Static Slim Ducted	Console	Air Handler	
	Indoor Family Name	Single Zone/Multi-Zone	40MPHB	40MAHB	40MHH	40MBCQ	40MCCAQ	40MBDQ	40MBDAQ	40MBFQ	40MBAB	40MUAA
Wired Controllers	KSACN0101AAA	Single Zone & Multi-Zone		○	○	○	○	○	○	○		
	KSACN0401AAA	Single Zone & Multi-Zone			○					○ 9-12 ‡		
	KSACN0501AAA	Single Zone & Multi-Zone				○		●		○ 18-58		
	KSACN0601AAA	Single Zone & Multi-Zone	○ 9-12K		○					○ 9-12 ‡		
	KSACN0701AAA	Single Zone & Multi-Zone				○	○	●**	●	○ 18-58		
	KSACN0801AAA	Single Zone & Multi-Zone	○ 18K	○								
	KSACN0901AAA	Single Zone & Multi-Zone			○							
	KSACN1001AAA	Single Zone & Multi-Zone									●	○
24V Interface	KSAIC0301230	Single Zone & Multi-Zone	○	○ 230V	○ 230V	○	○	○	○	○ 12-58*	BUILT-IN	
Wi-Fi® Kits	KSAIF0101AAA	Single Zone & Multi-Zone			○ 9/12/24k							
	KSAIF0201AAA	Single Zone & Multi-Zone			○ 18k							
	KSAIF0301AAA	Single Zone & Multi-Zone	→	→	→							
	KSAIF0401AAA	Single Zone & Multi-Zone				○	○	○	○	○ 18-58		
	KSAIF0601AAA	Single Zone & Multi-Zone	●	○			○					

○	Optional
●	Standard

Not available / compatible
Current models

**Notes:**

‡ Compatible with indoor units starting with Serial Number 0117V10001.

\*\* Starting with Serial Number 2820V10001 (Week 28, Year 2020) the KSACN0701AAA became the standard controller but is backwards compatible with previous production units.

\* 24V Interface compatible with all the sizes except sizes 12 and 58 depending on serial number. Starting with Serial Number 1419V10001 the sizes 12 and 58 are shipped with the compatible control board. Units built prior these serial number would require a Control Board Replacement on the Indoor unit in order to be compatible.

→ Indoor unit model comes with everything to be compatible with the USB WiFi Dongle Model 17310900000281 from the KSAIF0301AAA kit. If installed in a high wall unit other than the 40MAQ, install the USB Wi-Fi® Dongle 17310900000281 into the high wall unit's factory USB port only and discard all other components of the KSAIF0301AAA kit.

Board replacement for forward compatibility is not covered as a warranty claim

## WI-FI® COMPATIBILITY:

The use of the Wi-Fi® Accessory Kits on some indoor units would disable the ability to use the Wired Controllers in some instances:

		Wired Control	Wireless Control
High-Tier High Wall	40MPHB	●	●
Mid-Tier High Wall	40MAHB		●
Entry-Tier High Wall	40MHH		●
Ducted	40MBCQ	●	●
Cassette	40MBCAQ	●	●
Console 18-58	40MBFQ	●	●

**Note:**

The use of the 24V interface will disable system's Wi-Fi® module. Please consider using a Wi-Fi® Thermostat when using the 24V interface.

Wi-Fi® kits cannot be used on networks requiring a user login.

Wi-Fi® kits are only supported with networks using WPA-PSK/WPA2-PSK encryption and no encryption. WPA-PSK/WPA2-PSK encryption is recommended.

Please consult the installation instructions and Owners Manuals of the individual kits for more information.

# STANDARD FEATURES GLOSSARY

## 24-Hour Timer

Set the unit to start and stop automatically in a 24-hour period.

## Airflow Panel

360° air outlet creates a soft and gentle airflow, which circulates throughout the whole space and provides an even temperature distribution in the room.

## Auto Defrosting

Prevents the evaporator from freezing and maintains dehumidifying effect in low temperature environments.

## Auto Restart Function

If the air conditioner shuts off unexpectedly due to a power outage, it will restart with the previous settings automatically when the power resumes.

## Built-In Basepan Heater

A heating belt is fitted on the base plate of the outdoor unit to prevent water accumulation, which improves heat transfer efficiency.

## Built-In Condensate Lift Pump

A powerful, built-in drain pump can lift the condensing water up to 29 inches.

## Control Box Inside the Cassette

Easy maintenance with the box right inside the cassette indoor unit. The integrated design provides a more compact size for easier installation.

## Convenient Temperature Controls

An intuitive, easy-to-use remote control displays temperature and other functions on a bright, clear LCD screen.

## Convertible Return Air Inlet

The air inlet can be installed either at the back or bottom of the ducted unit, allowing for flexible installation to meet the needs of each job.

## Crankcase Heater

A heating belt is fitted on the compressor to prevent frosting water accumulation, which improves heat transfer efficiency.

## Diamond Outdoor Unit Design

An innovative outdoor unit reduces noise level by more than 3 dB(A), with higher reliability, easier maintenance and improved performance.

## Eco Mode

Provides the ultimate energy savings and a comfortable sleeping environment with an intelligent eight-hour night cycle program that saves up to 60% of energy.

## Extra-Low Temperature Heating

When it's cold outside, it's warm inside. High Tier ductless systems can be used as a primary heat source, with heat output down to -22° F.

## Follow Me

A temperature sensor built into the remote controller will sense its surrounding temperature. The unit will adjust the room temperature more accurately to give you comfort.

## High Ambient Cooling

The indoor space can be cooled to a desired, comfortable indoor temperature, even when outside temperatures reach up to 122°F.

## High Heating Operation

The high tier and mid-tier systems can be a primary heat source, with high heating down to -22° F, so when it's cold outside, it's warm inside.

## Independent Vane Control

Airflow direction from individual outlets can be controlled separately to achieve the optimal airflow based on a room's configuration.

## Inverter Technology

With the inverter, the outdoor unit uses only the energy required to meet the desired temperature requirements of the indoor unit, thus lowering energy consumption.

## Louver Position Memory

A horizontal louver will automatically move to the same position that was set the last time the unit was on.

## Low Ambient Cooling

Even when it's cold outside, but warm inside, the air conditioner will keep the area cool – perfect for server rooms and commercial kitchens.

## Refrigerant Leak Detection

The indoor unit shows error code "EC" and stops automatically when refrigerant leakage is detected. This protects the compressor from high temperature damage due to refrigerant leakage.

## Single and Multi-Zone Compatible

A single zone outdoor unit can be paired with any indoor unit type. One multi-zone unit can be leveraged for up to five indoor units of any style.

## Sleep Mode

This function enables the system to automatically increase cooling or decrease heating by around four degrees for the first two hours, then holds steady for the next five hours. After that, it will switch off. This function achieves both energy savings and comfort at night.

## Stepless Frequency Adjustment

Precise control maintains a stable and constant room temperature while reducing the sound level and saving energy.

## Two-Way Draining

Connections, piping and drainage can be installed from both the left and right on the high wall.

## Universal Matching

Get maximum flexibility with up to five different indoor units connected to one outdoor unit. Maintain a different temperature in each room for ultimate comfort, with the best indoor unit choice for each. Universal matching units are also available for single zone outdoor units. One outdoor unit can match any type of indoor unit.

## Wired Remote Controller

Compared to an infrared remote controller, a wired controller can be fixed on the wall and makes air conditioner operation more convenient for larger setups or ducted units.



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