

DUCTLESS ROADMAP

- ↑ OPPORTUNITY
- ↑ PARTNERSHIP
- ↑ INCREASED SALES
- ↑ ENHANCED PROFITS
- ↑ SUPERIOR COMFORT
- ↑ ZONE CONTROL
- ↑ TECHNOLOGY
- ↑ UTILITY REBATES
- ↑ CE TRAINING ACADEMY
- ↑ APPLICATIONS
- ↑ TECHNICAL SUPPORT
- ↑ INVENTORY
- ↑ EXPERTISE



YOUR TOUR GUIDE ON THE ROAD TO SUCCESS

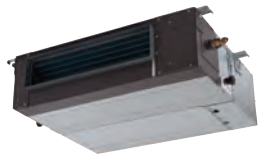


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Supplier Partners / Products

3M: Tapes

AC&R: Refrigeration Accessories, Separators, Accumulators, Receivers, Heat Elements, Regulators, Valves, Strainers

Accumetric LLC: Caulking, Silicone

Aerosys Inc: Thru The Wall System

Airex Filters: Filters

America Saw (Lenox): Saws, Blades and Accessories

Amtrol Inc: Expansion Tanks

Appion: Reclaim Machine

Arkema Inc: Refrigerant

Armacell LLC: Insulation Products

Bacharach: Test Instruments, Refrigerant/GasLeak Detectors

Bard Mfrg: Transformers

Beacon Morris: Heaters

Beckett: Oil Burners

Black Pipes & Fittings

Belimo Air: Actuators

Boss: Caulk

Bradford White: Water Heaters

Bramec Corp: Wall Mount Unit

Brimmar: Winter Covers

Browning: Belts

Building 36: Thermostat Systems

Cambridgeport: Curbs, Adapters, Concentrics

Carel USA: Steam Heaters

Carrier Brand Refrigeration: Equipment Parts

Compressors:

- Toshiba
- Matsushita
- Danfoss
- Bristol
- Daewoo(Rotary)
- Carlyle
- Tecumseh
- Copeland
- Aspera
- Embraco

Cooper-Atkins: Temperature/Humidity Meters

Cooper-B Line: Strut, Pipe Clamps

CPS Products: Meters

Danfoss: Valves / Controls / Compressors

Diversitech: Installation Items

Ductmate: Flat Stock

Duro Dyne: Aerosol Adhesives-Duct Connectors

Dust Free: Air Knights

EWC Controls: Panels And Dampers

Emerson: Motors, System Protectors, Filters-Driers, Sight Glasses, Expansion Valves, Solenoid Valves, Pressure Regulators

Fantech: Ventilation Products

Fasco: Motors

First Co: Air Handlers

Flanders: Air Filters

Flir Commercial: Electronics

Fluke Electronics: Meters

Franklin Elect: Condensate Pumps

G.E.: Serv-S-Line Motors

Genesis Cable: Wire

Gorilla Glue Co: Screwdrivers

Harris Products: Brazing Rods

Henry: Valves, Driers, Oil Control Systems

Honeywell: Dampers, Panels, Controls

Honeywell International: Refrigerant

Hudson Technologies: Reclaim Refrigerant Program

ICOR International: Refrigerant Substitutes

Ideal: Foil And Duct Tapes

Imperial: Tubing Tools

Inficon: Leak Detection, Recovery Machines

J B Industries: Voltage Detectors

Johns Manville: Insulation Products

Johnson Controls: Temperature, Pressure, Lube Oil Controls

JW Harris (Sil Fos): Soldering, Brazing and Welding Products

Klein: Meters

Laars: Boilers

Lenox: Thermostat Wire

Little Giant: Condensate Pumps

Littelfuse: Fuses

Maine Oxy: Acetylene

Malco Products: Screwdrivers

Maneurop

- Hermetic Condensing Units & Compressors

- Refrigeration Compressors

Mastercool: Hand Tools

McDaniel Metals: Filter Bases

Micromet: Curbs, Adapters, Concentrics

Mortex Products: Hot Water Coils

Motors And Armatures: Gloves, Shoe Covers

Mueller: Fittings/Copper

Nest: Thermostat

NuCalgon: Chemicals

Packless: Vibration Eliminators, Heat Exchangers

Paramount: Duct Hangers

Parker: TX Ives, Solenoids, Pressure Regulators

Pro1 IAQ: Thermostats

Quick-Sling

Ranco: Refrigeration Temperature & Pressure Controls

RDM Products: Outdoor Protection Systems for Condensing Units

Rectorseal: Misc Installation

RefTec: Recovery Units

Refrigeration Research: Mufflers, Suction Accumulators

Research Products: Slim Duct, Safety Caps & Switches

Reznor: Unit Heaters

RGF: Air Knights

Rinnai: Heaters

Ritchie Products: Manifolds

Sealed Unit Parts: Leak Lock-Hard Start Kits

Southwark Metal: Anything Metal

Spectronics: Fluorescent Leak Detector

Sporlan: Tx Valves

Sterling: Unit Heaters

Streamlight: Screws, Hand Tools

Superior: Refrigeration Products, Angle Valves

TPI: Instruments

Tecumseh: Compressors, Def. Condensing Units, Parts

Test Products: Meters

Totaline: Relays, Caps, Leak Freeze

Trade Pro: Disconnects, Fuses, Transformers

Trion: Mechanical Air Filters

Truaire: Grills & Registers

TurboTorch: Welding and Brazing Tools

UEI: Meters

Uni-Line: HVACR & Appliances

Uniweld Products: Manifolds And Nitrogen Regulators

Venture: Tape

Victor Technologies: Manifolds And Nitrogen Regulators

Virginia KMP: Chemicals, Vacuum Pump Oil

Watts: Regulators, Strainers, Temperature & Pressure Valves

White Rodgers: Electrical Controls, Thermostats

Wilo: Pumps

Puron™ Related Products

Imperial: Tubing Tools

J/B Industries: Vacuum Pumps, Valves, Fittings, Tools & Accessories for Refrigeration



HVAC/R Products & Mechanical Insulation

Product leadership and excellence is what CE Northeast has built its reputation on from day one. We differentiate you with the innovative technologies that you need to drive the business and be successful.

Note: Not all of the products/brands listed are available in all markets. Ask your salesperson for details!





LOCATIONS & CALL CENTERS

At CE Northeast, we're redefining Customer Service. Customers trust our Sales Support Group to be much more than a Call Center; it's a team of more than 20 inside sales consultants standing by to help you get what you need...where and when you need it. Their expert level of industry knowledge will help you do much more than place an order. They will be there to provide information on existing and new products, help you take advantage of promotional savings opportunities, guide you through special dealer programs and make sure that you aren't forgetting anything important for the job. Your success is our success; let us be your trusted advisor.

APPLICATIONS SUPPORT

Need help crafting the right solution to win the confidence of the customer? With technology changing the HVAC Industry every minute and codes becoming more complicated by the day, it's important to have a resource that will provide you and your team with the most comprehensive applications support on every project. Our in-house and field sales engineering team will help you plan and spec the right equipment, parts and labor to ensure every project is a success. **For Applications Support email: ductlessapplications@cenortheast.com**

TECHNICAL SUPPORT

Sometimes training and experience just aren't enough for some of the painfully unique real world challenges that you face on the job. That's when you engage the talent of our Field Support Success Agents with more than 100 years of combined field experience. These are the McGuyvers of HVAC and your lifeline when you find yourself stumped on site. Plus they provide one heck of a training schedule throughout the year that counts towards NATE certification! Selling is also easier when you're backed by some of the industry's most powerful warranties and a professional team of experts helping you get your claims processed quickly and fairly. In addition, you can select optional labor warranties at a fair price that will help you plan for the unlikely and unexpected. Back it all up with a "100% Customer Satisfaction Guarantee" through our Factory Authorized Dealer program and you have the tools for success.

24 HOUR HOTLINE

Emergency Service calls don't only happen during business hours... and we are here for you. Just call (800) 973-3345 for assistance.*

*Some rules & restrictions apply.

CLICK. SWIPE. CHECKOUT.

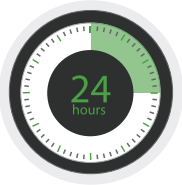


Your time is valuable and where you spend it matters. That's why at CE we're revolutionizing the HVAC industry. Now our entire inventory is available at your fingertips – *wherever you are and whenever you need it.*

carrierenterprise.com



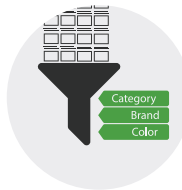
Available on Apple and Google Play
HVAC CONTRACTOR ASSIST



Real-time information available 24 hours a day.



Search for items by name, brand, size and more.



Apply filters to quickly identify the product you're looking for.



Review high-res pictures and rich item data.



Find related accessories for items typically purchased together.



See inventory at your pricing.



Easily pay online with credit card or your existing account.



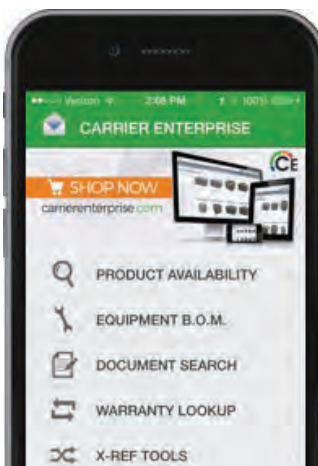
Save frequently purchased items in lists for future use.



Provide ordering access to employees then approve with a click.



Choose pick-up at the store of your choice or we'll deliver to you.



CE MOBILE APP - CE CONTRACTOR ASSIST

Our apps make the HVAC professional's life easier. Access product information and easy to use tools while on the go. Everything is one tap away.

- SHOP ONLINE
- PRODUCT AVAILABILITY
- LOOK AT THE BILL OF MATERIALS ON A RECENT ORDER
- CROSS REFERENCE TOOLS
- WARRANTY LOOKUP
- DOCUMENT LIBRARY
- PT CALCULATOR
- BRANCH LOCATOR
- EQUIPMENT PARTS LIST

TRAINING



Training is at the core of every successful contractor's business. The better their people are educated on the installation and service of HVAC equipment the less time a contractor spends on the jobsite, the fewer problem calls the contractor will receive, the happier the customers will be and the more profitable each job will become.

IN-PERSON TRAINING

In our effort to provide our customers with the most comprehensive training in the industry, CE Northeast has built its first Training Center and Showroom. This Training Center will contain working HVAC equipment and controls from our partner vendors such as Carrier, Bryant, Honeywell and many more. This training center is located in our West Caldwell, NJ branch and will be accessible to all of CE Northeast's customers. Over the course of time, additional training centers will be created throughout CE Northeast's territory to make hands-on technical training classes more accessible. Please log on to see a complete listing of our upcoming classes.

cenortheast.com/training.

ONLINE TRAINING

The following is a partial list of available online training classes for contractors, which can be taken at your convenience:

- Accounting & Office Management
- Becoming a World Class Retail Organization through Structural Sales
- Carrier IAQ for your Market
- Contractor Succession Planning
- Customer Driven Choices – Giving Customer What They Want
- Geothermal Technical Training

Please go online at www.hvacpartners.com and click on LEARNING CENTER to see a complete list of available courses and to register today!



DEALER AND CONSUMER INCENTIVES

Helping you save your customers money with Carrier ENERGY STAR certified ductless systems! ENERGY STAR products are independently certified to save energy without sacrificing features or functionality. And saving energy helps prevent climate change. So look for the ENERGY STAR label to save your customers' money on their energy bills and earn valuable rebates and/or tax credits all while helping to protect our environment!

STATE & LOCAL UTILITY REBATES

Many state and local utility providers offer rebates to homeowners when they have ENERGY STAR-certified systems installed. To learn more about rebates in your area, you may:

- Visit <http://energy.gov/savings/search>
- Contact your CE Team Representative
- Visit the local utility providers website in your area

DEALER REWARDS PROGRAM

EASY SIGN-UP PROCESS

Let's face it, the current process is a hassle. We're streamlining it for dealers, eliminating detailed estimates and allowing users to get started faster. The only information we'll need is a quick dealer survey and estimated spend for a few select categories.

FAD DEALERS NOW ACCRUE PROGRAM POINTS AT 2.5% OF ELIGIBLE PURCHASES FROM CE NORTHEAST

We've increased FAD dealer accruals from 2% to 2.5%. If you're an FAD dealer, for every \$1,000 in purchases you'll receive 25 points.

PROGRAM DEALERS NOW ACCRUE PROGRAM POINTS AT 2% OF ELIGIBLE PURCHASES FROM CE NORTHEAST

Program dealers will now receive 20 points for every \$1,000 in purchases compared to just 15 points last year.

CO-OP SPENDING IS INCREASING FROM 1.5 TO 1.75 POINTS FOR EACH POINT SPENT

In addition to the increase in earning power, co-op spending will increase by an extra 0.25 per point over last year.

EARN TRIPS FASTER

We want more customers to go on more trips. We're increasing trip spending from 1.25 to 1.5 points for each point earned and allocated to trips.

INCENTIVE TRIPS

We appreciate you! Every year our most successful customers join us on adventures to some of the most inviting and relaxing destinations in the world. Speak to one of your sales representatives for further details.

CE NORTHEAST CREDIT

We're giving you another opportunity to choose how you spend your points, giving dealers a \$0.50 per point credit against CE purchases as an optional use of points. This will be a simple statement credit to be used against purchases and balances, replacing the Catalog option in the Toolbox.

SIMPLIFIED POINTS SUMMARY

Dealers will have a more concise, easy to read summary of points—with a single cumulative number for the year, there's no confusion or frustration.

PROGRESS EMAILS DIRECT TO DEALERS

CE will automatically send dealers regular updates on goals, trips, and point summaries to provide easy reference and keep you informed.

DEALER REWARDS ELIGIBILITY

All customers who buy into the program as a dealer are eligible. Non-program dealers will no longer be able to participate in the Toolbox, but will have alternatives offered through CE Rewards. Please see a CE representative for details.

DEALER AND CONSUMER INCENTIVES

COME HOME TO CARRIER DUCTLESS INCENTIVES PROGRAMS

Bring a complete set of comfort solutions to your customers by taking advantage of the full line-up of ductless and VRF equipment now offered by Carrier. As an added benefit of being a ductless dealer, you get access to a variety of unique tools to help your business throughout the sales process. These tools include:

ENHANCED VISIBILITY IN THE DUCTLESS DEALER LOCATOR SEARCH RESULTS:

As a ductless dealer, you'll receive an icon next to your listing in the Carrier Dealer Locator. Your information will also receive enhanced visibility by being placed in a pre-sorted "Ductless" Dealer Locator on www.carrierductless.com, setting you above competing dealers who do not sell ductless products.

PRODUCT VISUALIZATION TOOL (PVT), AUGMENTED REALITY APP:

Stand out from the crowd and have that 'wow' factor with your customers as you utilize this augmented reality mobile app to show them what a Ductless system looks like in their own space. Present the top-level technical information, recommend where an indoor and outdoor unit be installed, and then show them a 3D model of it in their space -- in real-time. Take a photo or video of the application and then share it with your customer with your proposal, or share it with your installers so they know right where the customer wants the units installed. Augment your sales process and business!

GET MORE WITH DUCTLESS:

There's an opportunity for you to bring Carrier Ductless solutions to customers, whether there is a hot or cold spot, room additions, renovations and the list goes on. Each of those opportunities could have you earning BIG in the Get More with Ductless promotion. You will be able to earn Award Points for every eligible Carrier Ductless System you sell. Award Points are redeemable for the best in name-brand merchandise, airfare, hotel stays, event tickets and more! See program brochure for complete details.

DUCTLESS SPECIFIC AD KIT MATERIALS AND RADIO SPOT:

Being a Carrier ductless dealer, you'll have access to a special ad-kit to download unique customizable print and digital ad templates. These tools include print ads, radio, digital, product images and much more. There are many tools available to help promote your business and set yourself apart from the competition.

ACCESS YOUR INCENTIVES:

Incentives are only accessible to those enrolled as a Carrier Ductless Dealer.

Talk to your TM to learn how to become a "Come Home to Carrier" Ductless dealer and find out why: Carrier Ductless Systems are Leaders in Quality and Affordability!

DUCTLESS APPLICATIONS

You guessed it – no ductwork. With a Ductless system from Carrier, you don't need it. Whether you live in a new home or an older home without ductwork or you want more complete year-round climate control over a specific room or area of your home, Ductless systems are an efficient way to expand your comfort, no matter the challenges your space presents.



Going ductless doesn't involve going through a major renovation. Fact is, there's very little mess at all. Nor does it mean sacrificing a room with a view to a bulky window unit. Instead, a ductless heat pump or air conditioner integrates neatly into the space. It's mounted where it's least obtrusive — and most effective at quietly and gently directing treated air to every corner of the room.

EXTREME COMFORT PERFORMANCE

Heating down to -22 degrees and cooling up to 130 degrees F.

PERSONALIZED COMFORT CONTROL

Enjoy separate comfort settings from the rest of the home or building with individual remote control.

ENERGY STAR®

Select systems are ENERGY STAR certified in both heat pump and cooling-only systems.

QUIET OPERATION

Ideal for spaces where people spend large amounts of time and need low sound levels.

ENVIRONMENTALLY FRIENDLY

Washable filters on indoor units and the use of R410A refrigerant reduce harmful effects on the earth.

Single or multi-zone systems. Heating and cooling or just cooling. Whatever your needs, wherever your space, however you use it, Ductless systems offer customizable solutions that are efficient and quiet.

HOT OR COLD ROOMS

Target those problem spots in a home or office that never seem to be comfortable enough with a ducted system alone.

SUNROOMS OR HOME ADDITIONS

Carrier offers efficient residential ductless heat pump and AC systems that can be perfectly matched to keep a smaller add-on space comfortable all year.



DUCTLESS APPLICATIONS

BASEMENTS

Choose from high wall, under-ceiling or cassette indoor units to make a finished basement without adequate ductwork as comfortable as the rest of the home. And with the ductless system's DRY mode, you can keep your basement dry, comfortable and odor free.

With greater efficiency, targeted temperature control, installation flexibility, customer satisfaction and quality, it's no wonder that the industry is shifting towards Ductless Systems.

When it comes to whole-home comfort, understanding heating and cooling equipment can be complicated. At CE Northeast, we want to make it simple. Just like our dealers have the tools to give you whole-home comfort, we want to give you the tools to make the right choices. And it starts with learning the basics. From HVAC to Indoor Air Quality and more, we've got your comfort covered. Carrier Ductless systems not only offer solutions for spaces without ductwork, but they also work well in areas that conventional heating or cooling systems don't adequately keep comfortable, allowing you to personalize your comfort no matter where you are in your home.

SYSTEM TYPES

Ductless systems can be configured with either one or multiple indoor units powered by a single exterior compressor.



SINGLE-ZONE

Ductless air conditioners and heat pumps can be installed so that one indoor unit corresponds to one outdoor compressor. The compressor carries refrigerant and power to the interior unit via a small pipe, running through a small opening, installed with very little impact to your home.

MULTI-ZONE

One outdoor compressor can power up to nine indoor units, each separately controlled by a wireless remote, offering you flexible options for configuring your comfort solutions. You can even choose to add units to your compressor in the future after you've installed just two indoor units (depending on the maximum number of connectible units), allowing for more streamlined expansion or renovation of your home as time and budget allow.

SYSTEM SIZING

Proper sizing of ductless systems is essential to ensure energy efficiency and proper space heating or cooling capacity. If the sizing is too small or too large, the system won't cool properly and therefore won't operate efficiently. Additionally, expensive and time consuming problems will occur if the indoor units are mounted in the wrong locations or the installation itself is done incorrectly. This will also have a direct impact on space humidity control and the customers' utility bills.

Sizing ductless systems will depend on the area you want to cool or heat, how many indoor air handlers you plan to install and the level of insulation in the home. The greater the number of indoor units connected to the ductless system, the more accurate you must be in sizing the system.

Since Ductless systems tend to cool larger areas than window air conditioners at the same BTU level, accurate sizing of indoor units for the target area is incredibly important.

FOR EXAMPLE:

350 square foot space: Approximately 9,000 BTU	1000 square foot space: Approximately 24,000 BTU
500 square foot space: Approximately 12,000 BTU	1250 square foot space: Approximately 30,000 BTU
750 square foot space: Approximately 18,000 BTU	1500 square foot space: Approximately 36,000 BTU

That said, square footage of the space alone should not be the only factor you pay attention to. Make sure to ask questions like the following to ensure that you add enough capacity to the system to take care of the total load:

- *How many people live in the space?*
- *Do they entertain often where they may need to oversize the equipment?*
- *Are doors or windows open excessively?*
- *Do they require additional filtration that would affect the size of the indoor unit?*
- *Are there humidity control issues?*
- *Is this system the primary source of heat and if so, what are the design heating conditions for region where the system will be installed?*

DUCTLESS APPLICATIONS

LOW AMBIENT HEATING & COOLING

One of the biggest mistakes that installers make is proper sizing for low ambient heating or cooling conditions. As we all know, 47 deg F is the lowest point at which a heat pump system will have the ability to absorb the necessary heat from outside to ensure 100% capacity from the system.

RESIDENTIAL SINGLE & MULTI ZONE SYSTEMS

These systems are designed for Low Ambient Heating which means they can provide a higher percentage of heating at or below 0 deg F. When a ductless system says it has low ambient capability, it's important to determine how much heat it will provide on a design day. For example, if the system says it can provide 70% capacity at 0 deg F, you may need to oversize the system by 30% to make up the additional heat, introduce auxiliary heat such as baseboard radiation, radiant floor, electric or hot water coils, etc. or go to a higher heat output ductless system.

LIGHT COMMERCIAL SINGLE ZONE SYSTEMS

These systems are designed for Low Ambient Cooling which means they can provide a higher percentage of cooling at or below 0 deg F. Examples of applications where you would need Low Ambient Cooling are in a IT/Server Room or Elevator Machine Room. Many installers try and substitute the Residential Systems for a Light Commercial System because it's less expensive but 9 times out of 10, the Residential System will be unable to provide the cooling necessary for the space which in turn could result in lawsuits.

SNOW & WIND

When installing ductless condensing units, make sure to take the "elements" into consideration. For example, mount the condensing units above the recommended local Snow Line. This will prevent snow form blocking or damaging the condensing units while the condenser is running. In addition, wind baffles should be installed on both the residential and the light commercial ductless condensing units to reduce the impact the wind will have on the condensers performance during low ambient conditions.

DUCTWORK

When installing ducted indoor units, make sure to properly size for the static pressure requirements of the space. If the ducted unit doesn't have enough static pressure at the required capacity, you can (in some cases) step up to a larger capacity ducted unit (which will provide greater static pressure) but program the unit to keep the capacity lower as required by the space (by adjusting of the Linear Expansion Valve or Pulse Motor Valve). Please speak to your CE Northeast salesperson before performing this action in the field. They will work with the factory to confirm it can be done on the system you've chosen before you install it in the field.

WIRING

Most contractors assume that power and control wiring for traditional and ductless systems are the same. They're not. In most cases, ductless systems utilize the power wiring for communication between the condenser and the indoor units. Without the proper power wiring between the condenser and indoor units as well as the control wiring between the indoor units and their controllers, the system will never operate properly...if at all. Make sure to pay close attention to the manufacturer's specifications on both (ex: BX Cable with solid core wiring will not communicate properly because there is too much interference in the line).



turn to the experts™ 

INFINITY® SERIES

PREMIUM FEATURES, SPECIFICATIONS, SYSTEM BUILDER & PRICING

SINGLE ZONE SYSTEMS



MULTI-ZONE SYSTEMS



**10 YEAR
WARRANTY***

**Upon registration; within 90 days of installation*



GR HIGH WALL SYSTEM & PRICING

HIGH-EFFICIENCY AND HIGH-PERFORMANCE HEAT PUMP WITH BASEPAN HEATER

Inverter Compressor

Up to 30.5 SEER

10.3 HSPF

Sizes: 09 / 12 / 18

All Systems are ENERGY STAR® certified

FEATURES:

- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- 80% heating capacity at -22° F
- White and gray options
- Built-in basepan heater
- Auto-restart function
- Refrigerant leakage detection
- Seven fan speeds
- Quiet indoor operation, as low as 22 dB(A)
- Heating Setback (46° F Heating Mode)
- Follow Me (senses temperature at handheld remote)
- Piping length up to 82 ft.
- Cooling operating range 0° ~ 129° F (-18° ~ 54° C)
- Heating operating range -22° ~ 75° F (-30° ~ 24° C)

CONTROLS:

- Wireless Remote Controller included with indoor unit

INFINITY® SERIES

8.1" Depth from wall
Available in Gray or White



GR SERIES HIGH WALL HEAT PUMP SINGLE-ZONE SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	RATED HEATING BTUH	RATED COOLING BTUH	SEER	EER	STOCK STATUS OUTDOOR	STOCK STATUS INDOOR
38GRQB09-3	40GRQB09H-3	9,000	9,000	30.5	15.8	Stock	Stock
38GRQB12-3	40GRQB12B-3	13,000	12,000	23.0	12.7	Stock	Stock
38GRQB18-3	40GRQB18B-3	19,000	18,000	21.0	12.5	Stock	Stock

9th digit of indoor model number shows the color option. B = Gray; H = White

Wireless remote control included with indoor unit. Wired Remote Control not available.

208/230V 1Ph. Indoor unit powered from outdoor unit.

GR HIGH WALL SPECS

HEAT PUMP				
SYSTEM				
Size		9	12	18
Outdoor Model		38GRQB09---3	38GRQB12---3	38GRQB18---3
Indoor Model (White)		40GRQB09H--3	40GRQB12H--3	40GRQB18H--3
Indoor Model (Gray)		40GRQB09B--3	40GRQB12B--3	40GRQB18B--3
ENERGY START®		YES	YES	YES
PERFORMANCE				
Cooling System Tons		0.75	1.0	1.5
Cooling Rated Capacity	Btu/h	9,000	12,000	18,000
Cooling Cap. Range Min - Max	Btu/h	1,535~12,966	2,900~15,354	4,435~21,496
SEER		30.5	23.0	21.0
EER		15.8	12.8	12.5
Heating Rated Capacity (47° F)	Btu/h	9,000	13,000	19,000
Heating Rated Capacity (17° F)	Btu/h	5,500	8,500	12,700
Heating Maximum Capacity (17° F)	Btu/h	9,000	13,000	19,000
Heating Maximum Capacity (5° F)	Btu/h	9,000	13,000	19,000
Heating Cap. Range Min - Max	Btu/h	2,388~13,648	3,071~18,766	3,753~24,566
HSPF		10.3	10.3	10.3
COP	W/W	4.19	3.12	3.09
Heating Capacity @ 5F	Btu/h	9,000	12,185	18,521
CONTROLS				
Wireless Remote Controller (°F / °C Convertible)		Standard	Standard	Standard
Wired Remote Controller (°F / °C Convertible)		Not Available	Not Available	Not Available
OPERATING RANGE				
Cooling Outdoor DB Min -Max	° F (° C)	0~129 (-18~54)	0~129 (-18~54)	0~129 (-18~54)
Heating Outdoor DB Min -Max	° F (° C)	-22~75 (-30~24)	-22~75 (-30~24)	-22~75 (-30~24)
Cooling Indoor DB Min -Max	° F (° C)	64~95 (18~35)	64~95 (18~35)	64~95 (18~35)
Heating Indoor DB Min -Max	° F (° C)	32~86 (0~30)	32~86 (0~30)	32~86 (0~30)
PIPING				
Total Piping Length	ft (m)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
Piping Lift	ft (m)	33 (10)	33 (10)	33 (10)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	1/2 (12.7)	1/2 (12.7)
REFRIGERANT				
Type		R410A	R410A	R410A
Charge	Lbs	3.1	3.1	3.1
COMPRESSOR				
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter
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.	12	13	19
MOCP - Fuse Rating	A.	15	20	30
OUTDOOR				
Unit Width	in (mm)	35.4 (899)	35.4 (899)	38.6 (980)
Unit Height	in (mm)	23.5 (596)	23.5 (596)	31.1 (790)
Unit Depth	in (mm)	14.9 (378)	14.9 (378)	16.8 (427)
Net Weight	lbs (kg)	99.2 (45)	97 (44)	141.1 (64)
Airflow	CFM	1412	1412	2354
Sound Pressure	dB(A)	53	55	59
INDOOR				
Unit Width	in (mm)	37.8 (960)	37.8 (960)	37.8 (960)
Unit Height	in (mm)	12.6 (320)	12.6 (320)	12.6 (320)
Unit Depth	in (mm)	8.1 (205)	8.1 (205)	8.1 (205)
Net Weight	lbs (kg)	30.9 (14)	30.9 (14)	30.9 (14)
Number of Fan Speeds		7	7	7
Airflow (lowest to highest)	CFM	206/235/294/324/353/383/412	265/294/353/383/412/441/471	324/353/412/441/471/500/530
Sound Pressure (lowest to highest)	dB(A)	22/24/26/30/34/38/41	23/25/27/31/35/39/42	26/28/31/35/39/43/48
Air throw Data	ft (m)	29.5 (9)	29.5 (9)	29.5 (9)

GJ MULTI-ZONE SYSTEM

HEAT PUMP WITH BASEPAN HEATER

Inverter Compressor

Up to 22.0 SEER

Up to 10.2 HSPF

Sizes: 18 / 24 / 30 / 36 / 42 / 48 / 56

Select systems are ENERGY STAR® certified based on indoor combinations

FEATURES:

- Available in 208/230V
- Connect 2 ~ 9, multiple style indoor units (Infinity® Series)
 - High Wall (GR and GJ*B)
 - Cassette (GJ*C)1
 - Ducted (GJ*D)
 - Floor Console (GJ*F)
- Built-in basepan heater
- Total piping length 66 ft. ~ 476 ft.
- Auto-restart function
- Quiet outdoor operation, as low as 56 dB(A)
- Cooling operating range 0° ~ 119° F (-18° ~ 48° C)
- Heating operating range -4° ~ 75° F (-20° ~ 24° C)

CONTROLS:

- Wireless Remote Controller included with each indoor unit
- Wired Remote Controller included with each Ducted and Cassette indoor unit (optional on GJ*B High Wall)

*Grille is required on Cassette indoor units; sold separately.



INFINITY® SERIES



GJ MULTI-ZONE PRICING

GJ SERIES MULTI-SPLIT HEAT PUMP

OUTDOOR UNITS	MIN 2 ZONES ALL SIZES, MAX ZONES	COOL BTUH	HEAT BTUH	SEER / EER	HSPF	MCA	MOPA	LOCAL STOCK
38GJQC18-3	2	18,000	19,000	22.0/10.9	9.0	15	25	Stock
38GJQD24-3	3	26,000	29,000	20.5/10.2	11.0	21	35	Stock
38GJQF30-3	4	29,002	31,595	21.0/12.0	10.2	19	30	Stock
38GJQG36-3	4	34,018	42,514	21.0/12.1	10.2	21	35	Stock
38GJQG42-3	5	39,000	45,004	21.0/10.4	10.2	24	40	Stock
38GJQK48-3	8	47,800	54,600	16.0/9.5	8.2	30	50	Stock
38GJQL56-3	9	52,900	61,400	16.0/9.4	8.2	30	50	Stock

INDOOR MATCHUPS

INDOOR UNITS	TYPE / COLOR	BTU	LINE SET SIZES	INDOOR UNIT PRODUCT IMAGE	LOCAL STOCK
40GRQB09H-3		9K	1/4" X 1/2"		Stock
40GRQB12H-3	High Wall / White (Not to Use with 48k & 56k Units)	12K	1/4" X 1/2"		Stock
40GRQB18H-3		18K	1/4" X 5/8"		Stock
40GRQB09B-3		09K	1/4" X 1/2"		
40GRQB12B-3	High Wall / Silver (Not to Use with 48k & 56k Units)	12K	1/4" X 1/2"	Stock	
40GRQB18B-3		18K	1/4" X 5/8"	Stock	
40GJQB09B-3	High Wall / White	9K	1/4" X 1/2"		Stock
40GJQB12B-3		12K	1/4" X 1/2"		Stock
40GJQB18B-3		18K	1/4" X 5/8"		Stock
40GJQB24B-3		24K	1/4" X 5/8"		Stock
40GJQB09D-3		9K	1/4" X 3/8"		Stock
40GJQB12D-3		12K	1/4" X 3/8"		Stock
40GJQB18D-3	Ceiling Concealed Ducted	18K	1/4" X 1/2"		Stock
40GJQB21D-3		21K	3/8" X 5/8"		Stock
40GJQB24D-3		24K	3/8" X 5/8"		Stock
40GJQB09F-3	Floor Console White	9K	1/4" X 3/8"		Stock
40GJQB12F-3		12K	1/4" X 3/8"		Stock
40GJQB18F-3		18K	1/4" X 1/2"		Stock
40GJQB12C-3		12K	1/4" X 3/8"		Stock
40GJQB18C-3	Ceiling Cassette White	18K	1/4" X 1/2"		Stock
40GJQB24C-3		24K	3/8" X 5/8"		Stock
40GJQB01C-	Required Ceiling Cassette Grille	Fits 12K & 18K BTU Cassettes			Stock
40GJQB02C-	Required Ceiling Cassette Grille	Fits 24K BTU Cassette		Stock	
KSAUI0201AAA	Multi 2 Port Branch Box (IDU gas pipe 5/8")			GJ Multi-Zone 048K & 056K ODU	
KSAUI0401AAA	Multi 3 Port Branch Box (IDU gas pipe 5/8")			GJ Multi-Zone 048K & 056K ODU	
KSAUI0501AAA	Y-type Branch Tube			GJ Multi-Zone 048K & 056K ODU	

GJ MULTI-ZONE SPECS

HEAT PUMP

SYSTEM

Size	18	24	30	36	42	48	56
Outdoor Model	38GJQC18---3	38GJQD24---3	38GJQF30---3	38GJQG36---3	38GJQG42---3	38GJQK48---3	38GJQL56---3
Max Number of Zones	2	3	4	5	5	8	9

PERFORMANCE NON-DUCTED

Energy Star®	YES	NO	NO	NO	NO	NO	NO
Cooling System Tons	1.5	2.2	2.4	2.8	3.3	4.0	4.4
Cooling Rated Capacity	Btu/h 18,000	26,000	29,000	34,000	39,000	48,000	53,000
Cooling Cap. Range Min - Max	Btu/h 7000~21000	7500~33000	8189~33438	8871~35826	8871~40944	3412~54592	3412~61416
SEER	22	20.5	21	21	21	16	16
EER	12.5	9.5	12	12.4	10.43	9.56	9.45
Heating Rated Capacity (47°F)	Btu/h 19,000	29,000	31,600	42,500	45,000	54,500	61,500
Heating Cap. Range Min - Max	Btu/h 8530~22600	7500~35000	8189~32414	8871~44356	8871~46062	4094~59368	4094~63122
HSPF	9	10.2	10.2	10.2	10.2	8.2	8.2
COP @ 47F	W/W 3.85	3.86	3.76	3.63	3.50	3.53	3.34
COP @17F	W/W 2.96	2.96	2.69	2.71	2.56	2.68	2.21
Airflow (lowest to highest)	CFM 210/290/360/380	210/290/360/380	210/290/360/380	210/290/360/380	310/450/650/680	520/620/780/870	520/620/780/870
Sound Pressure (lowest to highest)	dB(A) 27/34/42	27/34/42	27/34/42	27/34/42	33/40/46	39/45/50	39/45/50
Air throw Data	ft (m) 23 (7)	23 (7)	23 (7)	23 (7)	30 (9)	36 (11)	36 (11)

PERFORMANCE COMBINATION DUCTED AND NON-DUCTED

Energy Star®	NO	NO	NO	NO	NO	NO	NO
Cooling Rated Capacity	Btu/h 18,000	26,000	29,200	34,000	39,500	48,500	53000
Cooling Cap. Range Min - Max	Btu/h 7000~21000	7500~33000	7195~32118	16511.5~36395.5	11335.5~41872	7706~53296	8456~58708
SEER	18	17.25	17.75	17.9	17.85	15.75	15.75
EER	11	8.75	10.55	11.25	10.1	9.2	9.1
Heating Rated Capacity (47°F)	Btu/h 19,000	29,000	31,800	43,000	46,000	54500	61000
Heating Cap. Range Min - Max	Btu/h 8530~22600	7500~35000	7344.5~32457	8051~44550.5	8185.5~46531	10047~56934	10047~34611
HSPF	9	9.6	10	9.9	9.9	8.2	8.2
COP @ 47F	W/W 3.53	3.52	3.52	3.30	3.31	3.32	3.18
COP @17F	W/W 2.68	2.51	2.60	2.43	2.50	2.19	2.16

PERFORMANCE DUCTED

Energy Star®	NO	NO	NO	NO	NO	NO	NO
Cooling Rated Capacity	Btu/h 18,000	26,000	29,200	34,000	39,500	48,500	52,500
Cooling Cap. Range Min - Max	Btu/h 7000~21000	7500~33000	6200~30800	12706~36965	13800~42800	12000~52000	13500~56000
SEER	14	14	14.5	14.8	14.7	15.5	15.5
EER	9.5	8	9.1	10.1	9.8	8.8	8.7
Heating Rated Capacity (47°F)	Btu/h 19,000	29,000	32,000	43,500	46,500	54,500	60,500
Heating Cap. Range Min - Max	Btu/h 8530~22600	7500~35000	6500~32500	7231~44745	7500~47000	16000~54500	16000~61000
HSPF	9	9	9.8	9.6	9.6	8.2	8.2
COP @ 47F	W/W 3.22	3.18	3.29	2.97	3.12	3.11	3.01
COP @17F	W/W 2.39	2.32	2.49	2.29	2.32	2.17	2.21

OPERATING RANGE

Cooling Outdoor DB Min - Max	° F (° C) 0~119 (-18~48)	0~119 (-18~48)	0~119 (-18~48)	0~119 (-18~48)	0~119 (-18~48)	0~119 (-15~48)	0~119 (-15~48)
Heating Outdoor DB Min - Max	° F (° C) -4~75 (-20~25)	-4~75 (-20~25)	-4~75 (-20~25)	-4~75 (-20~25)	-4~75 (-20~25)	-4~75 (-20~25)	-4~75 (-20~25)

PIPING

Total Piping Length	ft (m) 65 (19.8)	196 (59.7)	229.7 (70)	246 (75)	246 (75)	442.91 (135)	475.72 (145)
Piping to furthest FCU	ft (m) 33 (10.1)	65 (19.8)	82 (25)	82 (25)	82 (25)	229 (69.8)	229 (69.8)
Drop (OD above ID)	ft (m) 32 (9.8)	32 (9.8)	49.2 (15)	49.2 (15)	49.2 (15)	98.42 (30)	98.42 (30)
Lift (OD below ID)	ft (m) 33 (10.1)	33 (10.1)	49.2 (15)	49.2 (15)	49.2 (15)	98.42 (30)	98.42 (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)
Pipe Connection Size - Suction	in (mm) 3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	5/8 (16)	5/8 (16)

REFRIGERANT

Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg) 3.53 (1.6)	4.85 (2.2)	6.17 (2.8)	8.05 (3.65)	8.05 (3.65)	10.91 (4.9)	10.91 (4.9)
Metering Device	EEV	EEV	EEV	EEV	EEV	EEV	EEV

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					Powered from Branch Box	
MCA	A. 15	21	19	21	24	30	30
MOCP - Fuse Rating	A. 25	35	30	35	40	50	50

COMPRESSOR

Type	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Model	QXA-B141zF030A	QXAS-D23zX090B	QXAS-D32zX090A	QXAS-D32zX090A	QXAS-D32zX090A	QXAS-F428zX050A	QXAS-F428zX050A
Oil Type	RB68EP	RB68EP	FV50S	FV50S	FV50S	FV50S	FV50S
Rated Current	RLA 7.2	11.5	13.9	15.6	17.8	23	23

OUTDOOR

Unit Width	in (mm) 37.6 (955)	38.6 (980)	38.6 (980)	42.8 (1087)	42.8 (1087)	35.4 (899)	35.4 (899)
Unit Height	in (mm) 27.6 (701)	31.1 (790)	31.1 (790)	43.4 (1102)	43.4 (1102)	53 (1346)	53 (1346)
Unit Depth	in (mm) 15.6 (396)	16.8 (427)	17.3 (439)	17.3 (439)	17.3 (439)	13.4 (340)	13.4 (340)
Net Weight	lbs (kg) 114.7 (52)	153.2 (69.5)	145.5 (66)	198.4 (90)	198.4 (90)	255.7 (116)	255.7 (116)
Airflow	CFM 1883	2354	2330	4531	4531	3766	4119
Sound Pressure	dB(A) 56	59	59	61	61	57	57

GJ MULTI-ZONE SPECS

PHYSICAL DATA – INDOOR

HIGH WALL

Size	9	12	18
Model (White)	40GRQB09H--3	40GRQB12H--3	40GRQB18H--3
Model (Gray)	40GRQB09B--3	40GRQB12B--3	40GRQB18B--3
Unit Width	in (mm) 37.8 (960)	37.8 (960)	37.8 (960)
Unit Height	in (mm) 12.6 (320)	12.6 (320)	12.6 (320)
Unit Depth	in (mm) 8.1 (205)	8.1 (205)	8.1 (205)
Net Weight	lbs (kg) 30.9 (14)	30.9 (14)	30.9 (14)
Pipe Connection Size - Liquid	in (mm) 1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
Pipe Connection Size - Suction	in (mm) 1/2 (12.7)	1/2 (12.7)	5/8 (16)
Number of Fan Speeds	7	7	7
Airflow (lowest to highest)	CFM 206/235/294/324/353/383/412	265/294/353/383/412/441/471	324/353/412/441/471/500/530
Sound Pressure (lowest to highest)	dB(A) 22/24/26/30/34/38/41	23/25/27/31/35/39/42	26/28/31/35/39/43/48
Wireless Remote Controller (°F/°C Convertible)	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)	Not Available	Not Available	Not Available

HIGH WALL

Size	9	12	18	24
Model	40GJOB09B--3	40GJOB12B--3	40GJOB18B--3	40GJOB24B--3
Unit Width	in. 34.1 (866)	34.1 (866)	40.1 (1018)	46.4 (1178)
Unit Height	in. 11.5 (292)	11.5 (292)	12.6 (319)	2.8 (72)
Unit Depth	in (mm) 8.2 (209)	8.2 (209)	9.1 (230)	10.4 (264)
Net Weight	lbs (kg) 24.3 (11)	24.3 (11)	30.9 (14)	38.6 (17.5)
Pipe Connection Size - Liquid	in (mm) 1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
Pipe Connection Size - Suction	in (mm) 1/2 (12.7)	1/2 (12.7)	5/8 (16)	5/8 (16)
Number of Fan Speeds	7	7	7	7
Airflow (lowest to highest)	CFM 224/241/271/312/359/394/430	224/241/271/312/659/394/453	282/330/371/418/465/512/589	294/353/412/471/530/588/647
Sound Pressure (lowest to highest)	dB(A) 23/26/30/34/36/38/42	24/26/30/34/36/38/44	33/36/38/41/44/47/51	38/41/43/45/47/49/52
Wireless Remote Controller (°F/°C Convertible)	Standard	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)	Optional	Optional	Optional	Optional

CASSETTE

Size	12	18	24
Model	40GJOB12C--3	40GJOB18C--3	40GJOB24C--3
Unit Width	in. 22.4 (569)	22.4 (569)	33.1 (841)
Unit Height	in. 9.1 (231)	9.1 (231)	9.4 (239)
Unit Depth	in (mm) 22.4 (569)	22.4 (569)	33.1 (841)
Net Weight	in (mm) 39.7 (18)	39.7 (18)	61.7 (28)
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)
Number of Fan Speeds	3	3	3
Airflow	CFM 265/294/353	265/294/353	500/559/694
Sound Pressure (lowest to highest)	dB(A) 42/44/46	42/44/46	35/37/39
Wireless Remote Controller (°F/°C Convertible)	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)	Standard	Standard	Standard

FLOOR CONSOLE

Size	9	12	18
Model	40GJOB09F--3	40GJOB12F--3	40GJOB18F--3
Unit Width	in (mm) 8.5 (215.9)	8.5 (215.9)	8.5 (215.9)
Unit Height	in (mm) 23.6 (599.4)	23.6 (599.4)	23.6 (599.4)
Unit Depth	in (mm) 27.6 (701)	27.6 (701)	35.4 (899)
Net Weight	in (mm) 33.1 (15)	33.1 (15)	33.1 (15)
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)	3/8 (9.52)	1/2 (12.7)
Number of Fan Speeds	7	7	7
Airflow (lowest to highest)	CFM 188/217/253/282/311/329/382	205/264/294/323/353/382/441	241/311/341/382/423/470/494
Sound Pressure (lowest to highest)	dB(A) 25/26/30/33/36/38/40	27/32/35/37/38/40/43	33/35/37/41/44/46/48
Wireless Remote Controller (°F/°C Convertible)	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)	Not Available	Not Available	Not Available

DUCTED

Size	9	12	18	21	24
Model	40GJOB09D--3	40GJOB12D--3	40GJOB18D--3	40GJOB21D--3	40GJOB24D--3
Unit Width	in (mm) 24.2 (615)	24.2 (615)	24.2 (615)	24.2 (615)	24.2 (615)
Unit Height	in (mm) 7.9 (201)	7.9 (201)	7.9 (201)	7.9 (201)	7.9 (201)
Unit Depth	in (mm) 27.6 (701)	27.6 (701)	35.4 (899)	43.3 (1100)	43.3 (1100)
Net Weight	in (mm) 48.5 (22)	50.7 (23)	59.5 (27)	68.3 (31)	43.3 (1100)
Pipe Connection Size - Liquid	in (mm) 1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (16)
Pipe Connection Size - Suction	in (mm) 3/8 (9.52)	3/8 (9.52)	1/2 (12.7)	5/8 (16)	5/8 (16)
Number of Fan Speeds	3	3	3	3	3
Airflow (lowest to highest)	CFM 147/176/264	176/235/323	294/353/411	323/441/588	323/441/588
Sound Pressure (lowest to highest)	dB(A) 31/34/37	32/35/39	33/37/41	34/38/42	34/38/42
Max Static Pressure	In.WG. 0.04	0.04	0.04	0.06	0.06
Wireless Remote Controller (°F/°C Convertible)	Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)	Standard	Standard	Standard	Standard	Standard

GJ MULTI-ZONE SPECS

GJ SERIES MULTI-SPLIT HEAT PUMPS

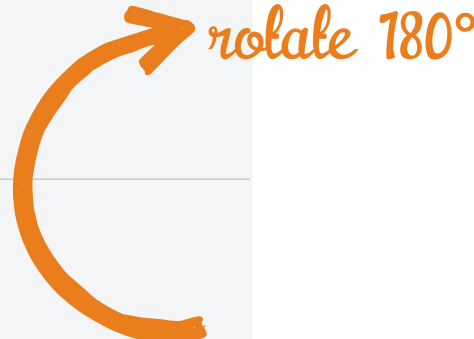
2-ZONE	3-ZONE	4-ZONE	5-ZONE	6-ZONE	7-ZONE	8-ZONE	9-ZONE
38GJQC18---3							
9+9							
9+12							
38GJQD24---3							
9+9	9+9+9						
9+12	9+9+12						
9+18	9+9+18						
12+12	9+12+12						
12+18	12+12+12						
18+18							
38GJQF30---3							
9+9	9+9+9	9+9+9+9					
9+12	9+9+12	9+9+9+12					
9+18	9+9+18	9+9+12+12					
9+21	9+9+21						
9+24	9+9+24						
12+12	9+12+12						
12+18	9+12+18						
12+21	9+12+21						
12+24	12+12+12						
18+18	12+12+18						
18+21							
18+24							
21+21							
38GJQG36---3							
9+9	9+9+9	9+9+9+9	9+9+9+9+9				
9+12	9+9+12	9+9+9+12	9+9+9+9+12				
9+18	9+9+18	9+9+9+18					
9+21	9+9+21	9+9+9+21					
9+24	9+9+24	9+9+12+12					
12+12	9+12+12	9+9+12+18					
12+18	9+12+18	9+12+12+12					
12+21	9+12+21	9+12+12+18					
12+24	9+12+24	12+12+12+12					
18+18	9+18+18						
18+21	9+18+21						
18+24	9+21+21						
21+21	12+12+12						
21+24	12+12+18						
24+24	12+12+21						
	12+12+24						
	12+18+18						
38GJQG42---3							
9+9	9+9+9	9+9+9+9	9+9+9+9+9				
9+12	9+9+12	9+9+9+12	9+9+9+9+12				
9+18	9+9+18	9+9+9+18					
9+21	9+9+21	9+9+9+21					
9+24	9+9+24	9+9+12+12					
12+12	9+12+12	9+9+12+18					
12+18	9+12+18	9+12+12+12					
12+21	9+12+21	9+12+12+18					
12+24	9+12+24	12+12+12+12					
18+18	9+18+18						
18+21	9+18+21						
18+24	9+21+21						
21+21	12+12+12						
21+24	12+12+18						
24+24	12+12+21						
	12+12+24						
	12+18+18						
	12+18+21						

Combnations subject to change. Refer to HVAC Partners product Data for most current combinations.

GJ SERIES MULTI-SPLIT HEAT PUMPS

2-ZONE		3-ZONE		4-ZONE		5-ZONE		6-ZONE		7-ZONE		8-ZONE		9-ZONE	
9+18	9+9+9	12+12+24	9+12+12+24	9+9+9+9	12+12+18+21	9+9+9+9+9	9+9+9+18+24	9+12+12+12+12	9+9+9+9+9+9	9+9+9+9+9+9+9	9+9+9+9+9+9+9+9	9+9+9+9+9+9+9+9+9	9+9+9+9+9+9+9+9+9+9	9+9+9+9+9+9+9+9+9+9+9	9+9+9+9+9+9+9+9+9+9+9+9
9+21	9+9+12	12+12+24	9+12+18+18	9+9+9+12	12+12+18+24	9+9+9+9+12	9+9+9+21+21	9+12+12+18+18	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12
9+24	9+9+18	12+18+18	9+12+18+21	9+9+9+18	12+12+21+21	9+9+9+9+18	9+9+9+21+24	9+12+12+12+21	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18
12+12	9+9+21	12+18+21	9+12+18+24	9+9+9+21	12+12+24+24	9+9+9+9+21	9+9+12+12+12	9+12+12+12+24	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21
12+18	9+9+24	12+18+24	9+12+21+21	9+9+9+24	12+18+18+18	9+9+9+9+24	9+9+12+12+18	9+12+12+12+18	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
12+21	9+12+12	12+21+21	9+12+21+24	9+9+12+12	12+18+18+21	9+9+12+12	9+9+12+12+21	9+12+12+12+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
12+24	9+12+18	12+21+24	9+12+24+24	9+9+12+18	12+18+18+24	9+9+12+18	9+9+12+12+24	9+12+12+12+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
18+18	9+12+21	12+24+24	9+18+18+18	9+9+12+21	12+18+21+21	9+9+12+21	9+9+12+18+21	12+12+12+12+18	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
18+21	9+12+24	18+18+18	9+18+18+21	9+9+12+24	12+18+18+24	9+9+12+24	9+9+12+18+21	12+12+12+12+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
18+24	9+18+18	18+18+21	9+18+18+24	9+9+18+18	12+18+18+24	9+9+18+18	9+9+12+18+21	12+12+12+12+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
21+21	9+18+21	18+18+24	9+18+21+21	9+9+18+21	12+18+21+24	9+9+18+21	9+9+12+18+21	12+12+12+12+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
21+24	9+18+24	18+21+21	9+18+21+24	9+9+18+24	12+18+21+24	9+9+18+24	9+9+12+18+21	12+12+12+12+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
24+24	9+21+21	18+21+24	9+18+21+24	9+9+21+21	12+12+12+12	9+9+21+21	9+9+12+18+21	12+12+12+12+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
	9+21+24	21+21+21	12+12+12+12	9+9+21+24	12+12+12+18	9+9+21+24	9+9+12+18+21	12+12+12+12+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
	9+24+24	21+21+24	12+12+12+21	9+12+12+12	12+12+12+21	9+12+12+12	9+9+12+18+21	12+12+12+12+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
	12+12+12	21+24+24	9+12+12+18	9+12+12+18	12+12+12+24	9+12+12+18	9+9+12+18+21	12+12+12+12+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
	12+12+18	24+24+24	9+12+12+21	9+12+12+21	12+12+18+18	9+12+12+21	9+9+12+18+21	12+12+12+12+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24

386-J0L48---3***		386-J0L48---3***		386-J0L48---3***		386-J0L48---3***		386-J0L48---3***		386-J0L48---3***		386-J0L48---3***		386-J0L48---3***	
9+18	9+9+12	12+12+24	9+12+18+21	9+9+9+9	12+12+18+21	9+9+9+9+9	9+12+18+21	12+12+18+21	9+9+9+9+9+9	9+9+12+12+12+21	9+9+9+9+9+9+9	9+9+9+9+9+9+9+9	9+9+9+9+9+9+9+9+9	9+9+9+9+9+9+9+9+9+9	9+9+9+9+9+9+9+9+9+9+9
9+21	9+9+18	12+18+18	9+12+18+24	9+9+9+12	12+12+18+24	9+9+9+12	9+12+18+24	12+12+18+24	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12	9+9+9+9+9+12
9+24	9+9+21	12+18+21	9+12+21+21	9+9+9+18	12+12+21+21	9+9+9+18	9+12+21+21	12+12+21+21	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18	9+9+9+9+9+18
12+18	9+9+24	12+18+24	9+12+21+24	9+9+9+21	12+12+21+24	9+9+9+21	9+12+21+24	12+12+21+24	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21	9+9+9+9+9+21
12+21	9+12+12	12+21+21	9+12+24+24	9+9+9+24	12+12+24+24	9+9+9+24	9+12+24+24	12+12+24+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
12+24	9+12+18	12+21+24	9+18+18+18	9+9+12+12	12+18+18+18	9+9+12+12	9+18+18+18	12+18+18+18	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
18+18	9+12+21	12+24+24	9+18+18+21	9+9+12+18	12+18+18+21	9+9+12+18	9+18+18+21	12+18+18+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
18+21	9+12+24	18+18+18	9+18+18+24	9+9+12+21	12+18+18+24	9+9+12+21	9+18+18+24	12+18+18+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
18+24	9+18+18	18+18+21	9+18+18+24	9+9+18+18	12+18+18+24	9+9+18+18	9+18+18+24	12+18+18+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
21+21	9+18+21	18+18+24	9+18+21+21	9+9+18+21	12+18+21+21	9+9+18+21	9+18+21+21	12+18+21+21	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
21+24	9+18+24	18+21+21	9+18+21+24	9+9+18+24	12+18+21+24	9+9+18+24	9+18+21+24	12+18+21+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
24+24	9+21+21	18+21+24	9+18+21+24	9+9+21+21	12+12+12+12	9+9+21+21	9+18+21+24	12+18+21+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
	9+21+24	21+21+21	12+12+12+12	9+9+21+24	12+12+12+18	9+9+21+24	9+18+21+24	12+18+21+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
	9+24+24	21+21+24	12+12+12+21	9+12+12+12	12+12+12+21	9+12+12+12	9+18+21+24	12+18+21+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24
	12+12+12	24+24+24	9+12+12+18	9+12+12+18	12+12+12+24	9+12+12+18	9+18+21+24	12+18+21+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24	9+9+9+9+9+24



*** Multi Zone Models 48 and 56 require Branch Box and Y joint accessories. See accessories pricing tables.



turn to the experts™ 

Performance™ SERIES

PREMIUM FEATURES, SPECIFICATIONS, SYSTEM BUILDER & PRICING

**SINGLE ZONE SYSTEMS:
HIGH WALL, CASSETTE,
DUCTED & FLOOR CONSOLE**



MULTI-ZONE SYSTEMS



**Upon registration; within 90 days of installation*



38MA*R OUTDOOR UNIT

HEAT PUMP WITH BASEPAN HEATER

Inverter Compressor

Up to 25.0 SEER

Up to 12.0 HSPF

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

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

FEATURES OUTDOOR:

- 100% heating capacity at 5° F (-15° C)
Sizes 9-24 (208/230V)
- Available in 115V and 208/230V
- Built-in basepan heater
- Auto-restart function
- Condenser high-temperature protection
- Refrigerant leakage detection
- Quiet outdoor operation, as low as 52.5 dB(A)
- Aluminum Blue Hydrophilic pre-coated fins
- Piping length 82 ~ 164 ft.
- Cooling operating range
-13° ~ 122° F (-25° ~ 50° C)
- Heating operating range
-22° ~ 86° F (-30° ~ 30° C) – Sizes 9-24 (208/230V)
-13° ~ 86° F (-25° ~ 30° C) – Sizes 9, 12 (115V) & 30, 36 (208/230V)



COMPATIBILITY TABLE

40MAQ HIGH WALL								
INDOOR UNIT	OUTDOOR UNIT							
	38MAQB09R--1	38MAQB12R--1	38MAQB09R--3	38MAQB12R--3	38MAQB18R--3	38MAQB24R--3	38MAQB30R--3	38MAQB36R--3
40MAQB09B--1								
40MAQB12B--1								
40MAQB09B--3								
40MAQB12B--3								
40MAQB18B--3								
40MAQB24B--3								
40MAQB30B--3								
40MAQB36B--3								
40MB*F CASSETTE								
40MBQB09C--3								
40MBQB12C--3								
40MBQB18C--3								
40MB*DUCTED								
40MBQB12D--3								
40MBQB18D--3								
40MBQB24D--3								
40MB*F FLOOR CONSOLE								
40MBQB09F--3								
40MBQB12F--3								

MA HIGH WALL SYSTEM AND PRICING

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



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

FEATURES

- 100% heating capacity at 5° F (-15° C)
Sizes 9-24 (208/230V)
- Available in 115V and 208/230V
- Built-in basepan heater
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Four fan speeds
- Sleep Mode
- Follow Me (senses temperature at handheld remote)
- Quiet indoor operation, as low as 27 dB(A)
- Heating Setback (46° F Heating Mode)
- Cooling operating range
-13° ~ 122° F (-25° ~ 50° C)
- Heating operating range
-22° ~ 86° F (-30° ~ 30° C) – Sizes 9-24 (208/230V)
-13° ~ 86° F (-25° ~ 30° C) – Sizes 9, 12 (115V) & 30, 36 (208/230V)



Performance
SERIES

CONTROLS

- Wireless Remote Controller included with indoor unit
- Optional Wired Remote Controller (Timer Function)

MAR-MAB SERIES HIGH WALL HEAT PUMP SINGLE ZONE INVERTER SYSTEMS

OUTDOOR UNIT	INDOOR UNIT	RATED HEATING BTUH	RATED COOLING BTUH	SEER	EER	STOCK STATUS OUTDOOR	STOCK STATUS INDOOR
38MAQB09R--1	40MAQB09B--1	10,000	9,000	23.5	14.5	OAN	OAN
38MAQB12R--1	40MAQB12B--1	12,000	12,000	21.5	13.0	OAN	OAN
38MAQB09R--3	40MAQB09B--3	10,000	9,000	23.5	14.5	Stock	Stock
38MAQB12R--3	40MAQB12B--3	12,000	12,000	21.5	13.0	Stock	Stock
38MAQB18R--3	40MAQB18B--3	18,000	17,500	19.5	12.5	Stock	Stock
38MAQB24R--3	40MAQB24B--3	25,000	23,000	20.0	12.5	Stock	Stock
38MAQB30R--3	40MAQB30B--3	33,000	30,000	16.5	9.5	Stock	Stock
38MAQB36R--3	40MAQB36B--3	36,000	36,000	16.0	8.6	Stock	Stock

Wireless remote control included with indoor unit. Wired remote control accessory available separately.

Model numbers ending ---1 are 115V 1Ph; Model numbers ending ---3 are 208/230V 1Ph.

Indoor unit is powered from outdoor unit.

See Page 49 for Complete Accessories Listing.



MA HIGH WALL SPECS

INDOOR WALL MOUNT

SYSTEM									
Size		9	12	9	12	18	24	30	36
Indoor Model		40MAQB09B--1	40MAQB12B--1	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	40MAQB24B--3	40MAQB30B--3	40MAQB36B--3
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.	A.	0.4	0.4	0.2	0.2	0.27	0.4	0.4	0.4
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)	63~86 (17~30)	63~86 (17~30)	63~86 (17~30)	63~86 (17~30)	63~86 (17~30)	63~86 (17~30)	63~86 (17~30)	63~86 (17~30)
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)	1/4 (6.35)	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)	1/2 (12.7)	5/8 (16)	5/8 (16)	5/8 (16)
INDOOR									
Unit Width	in (mm)	32.87 (835)	32.87 (835)	32.87 (835)	32.87 (835)	38.98 (990)	46.69 (1186)	46.69 (1186)	46.69 (1186)
Unit Height	in (mm)	11.02 (280)	11.02 (280)	11.02 (280)	11.02 (280)	12.40 (315)	13.39 (343)	13.39 (343)	13.39 (343)
Unit Depth	in (mm)	7.80 (198)	7.80 (198)	7.80 (198)	7.80 (198)	8.58 (218)	10.16 (258)	10.16 (258)	10.16 (258)
Net Weight	lbs (kg)	19.18 (8.7)	19.18 (8.7)	19.18 (8.7)	19.18 (8.7)	26.46 (12.0)	40.12 (18.2)	40.12 (18.2)	40.12 (18.2)
Number of Fan Speeds		4	4	4	4	4	4	4	4
Airflow (lowest to highest)	CFM	210/290/360/380	210/300/360/380	210/290/360/380	210/300/360/380	310/450/650/680	520/620/780/870	520/620/780/870	520/620/780/870
Sound Pressure (lowest to highest)	dB(A)	27/34/42	27/34/42	27/34/42	27/34/42	33/40/46	39/45/50	39/45/50	39/45/50
Air throw Data	ft (m)	23 (7)	23 (7)	23 (7)	23 (7)	30 (9)	36 (11)	36 (11)	36 (11)

OUTDOOR UNIT

SYSTEM									
Size		9	12	9	12	18	24	30	36
Outdoor Model		38MAQB09R--1	38MAQB12R--1	38MAQB09R--3	38MAQB12R--3	38MAQB18R--3	38MAQB24R--3	38MAQB30R--3	38MAQB36R--3
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.	15	15	9	9	18	20	20	25
MOCP - Fuse Rating	A.	20	20	15	15	25	30	30	35
OPERATING RANGE									
Cooling Outdoor DB Min -Max	° F (° C)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)
Heating Outdoor DB Min -Max	° F (° C)	-13~86 (-25~30)	-13~86 (-25~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-22~86 (-30~30)	-13~86 (-25~30)	-13~86 (-25~30)
PIPING									
Total Piping Length	ft (m)	82 (25)	82 (25)	82 (25)	82 (25)	98 (30)	98 (30)	164 (50)	164 (50)
Piping Lift	ft (m)	32 (10)	32 (10)	32 (10)	32 (10)	65 (20)	65 (20)	82 (25)	82 (25)
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 - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	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	lbs (kg)	2.76 (1.25)	2.76 (1.25)	3.31 (1.5)	3.31 (1.5)	4.30 (1.95)	5.73 (2.60)	6.06 (2.75)	7.50 (3.40)
Metering Device		EEV	EEV	EEV	EEV	EEV	EEV	EEV	EEV
OUTDOOR COIL									
Face Area	Sq. Ft.	4.5	4.5	4.5	4.5	5.2	8.0	8.0	8.0
No. Rows		2	2	2	2	2	2	3	3
Fins per inch		20	20	18	18	18	20	18	18
Circuits		4	4	4	4	4	4	6	6
COMPRESSOR									
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Model		ASM98D32UFZ	ASM98D32UFZ	ATM115D43UFZ2	ATM115D43UFZ2	ATF235D22UMT	ATF235D22UMT	ATF250D22UMT	ATF250D22UMT
Oil Type		VG74	VG74	VG74	VG74	VG74	VG74	VG74	VG74
Oil Charge	Fl. Oz.	13.0	13.0	17.6	17.6	23.6	23.6	23.6	23.6
Rated Current	RLA	9.0	9.0	5.3	5.7	12.3	14.0	15.0	17.0
OUTDOOR									
Unit Width	in (mm)	32.09 (815)	32.09 (815)	32.09 (815)	32.09 (815)	33.66 (855)	37.24 (946)	37.24 (946)	37.24 (946)
Unit Height	in (mm)	21.81 (554)	21.81 (554)	21.81 (554)	21.81 (554)	27.63 (702)	31.89 (810)	31.89 (810)	31.89 (810)
Unit Depth	in (mm)	13.11 (333)	13.11 (333)	13.11 (333)	13.11 (333)	14.17 (360)	16.14 (410)	16.14 (410)	16.14 (410)
Net Weight	lbs (kg)	82.9 (37.6)	82.9 (37.6)	91.5 (41.5)	91.5 (41.5)	118.2 (53.6)	145.5 (66)	139.8 (63.4)	147.3 (66.8)
Airflow	CFM	1,200	1,200	1,200	1,200	1,390	2,130	2,130	2,130
Sound Pressure	dB(A)	52.5	52.5	55.5	56.0	57.5	60.5	60.5	60.5

MB*D DUCTED SYSTEM & PRICING

Sizes: 09 / 12 / 18 / 24

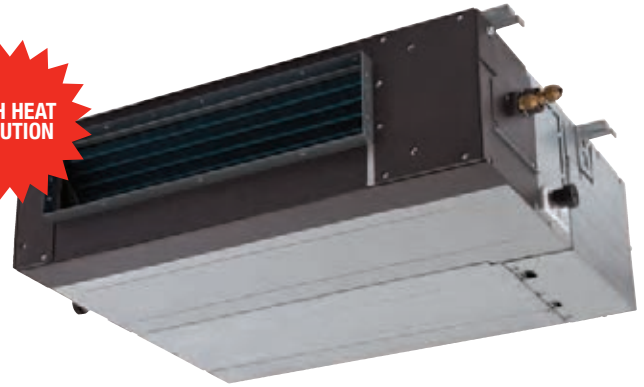
Select sizes are ENERGY STAR® certified based on outdoor unit pairing

FEATURES:

- 100% heating capacity at 5° F (-15° C)
Sizes 9-24 (208/230V)
- Available in 115V and 208/230V
- Built-in basepan heater
- Modes: Cool, Heat, Dry, Fan, Auto
- Three fan speeds
- Maximum static pressure up to 0.40 in. WG (size dependent)
- Follow Me (senses temperature at handheld remote)
- Quiet indoor operation, as low as 30 dB(A)
- Heating Setback (46° F Heating Mode)
- Built-in condensate pump
- Rear or bottom return
- Cooling operating range
-13° ~ 122° F (-25° ~ 50° C)
- Heating operating range
-22° ~ 86° F (-30° ~ 30° C) – Sizes 9-24 (208/230V)

CONTROLS:

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



Performance
SERIES



Standard Wired Controller
(Timer Function)
KSACN0101AAA



Optional Wired Controller
(7-Day Programmable)
KSACN0501AAA



MAR-MB*D SERIES DUCTED HEAT PUMP SINGLE ZONE INVERTER SYSTEMS

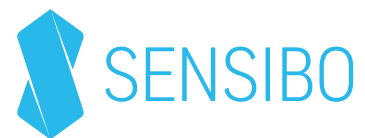
OUTDOOR UNIT	INDOOR UNIT	RATED HEATING BTUH	RATED COOLING BTUH	SEER	EER	STOCK STATUS OUTDOOR	STOCK STATUS INDOOR
38MAQB09R-3	40MBQB09D-3	10,000	9,000	18.5	12.5	Stock	Stock
38MAQB12R-3	40MBQB12D-3	12,000	11,000	17.0	11.4	OAN	Stock
38MAQB18R-3	40MBQB18D-3	17,000	16,000	18.5	12.5	Stock	Stock
38MAQB24R-3	40MBQB24D-3	25,000	23,800	19.0	12.5	Stock	Stock

Built In Condensate Pump

Wired Control & Wireless remote control included with indoor unit.

208/230V 1Ph. Indoor unit is powered from outdoor unit.

See page 49 for complete accessories listing.



MB*D DUCTED SPECS

INDOOR DUCTED

SYSTEM					
Size		9	12	18	24
Indoor Model		40MBQB09D---3	40MBQB12D---3	40MBQB18D---3	40MBQB24D---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.	A.	0.51	0.51	0.62	0.62
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 COIL					
Face Area	Sq. Ft.	1.4	1.4	1.4	2.0
No. Rows		3	3	3	4
Fins per inch		16	16	16	16
Circuits		4	4	4	6
INDOOR					
Unit Width	in (mm)	27.56 (700)	27.56 (700)	36.22 (920)	36.22 (920)
Unit Height	in (mm)	8.27 (210)	8.27 (210)	8.27 (210)	10.63 (270)
Unit Depth	in (mm)	25 (635)	25 (635)	25 (635)	25 (635)
Net Weight	lbs (kg)	39.90 (18.1)	39.90 (18.1)	50.7 (23)	57.32 (26)
Number of Fan Speeds		3	3	3	3
Airflow (lowest to highest)	CFM	290/340/380	290/340/380	400/440/480	590/650/810
Sound Pressure (lowest to highest)	dB(A)	30/33/36	30/34/38	34/37/38	43/45/48
Max Static Pressure	In.WG.	0.18	0.18	0.28	0.40

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

OUTDOOR DUCTED

SYSTEM					
Size		9	12	18	24
Indoor Model		38MAQB09R--3	38MAQB12R--3	38MAQB18R--3	38MAQB24R--3
ELECTRICAL					
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	9	9	18	20
MOCP - Fuse Rating	A.	15	15	25	30
OPERATING RANGE					
Cooling Indoor DB Min -Max	° F (° C)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)
Heating Indoor DB Min -Max	° F (° C)	-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)	98 (30)	98 (30)
Piping Lift*	ft (m)	32 (10)	32 (10)	65 (20)	65 (20)
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)
REFRIGERANT					
Type		R410A	R410A	R410A	R410A
Charge	lbs (kg)	3.31 (1.5)	3.31 (1.5)	4.30 (1.95)	5.73 (2.60)
Metering Device		EEV	EEV	EEV	EEV
OUTDOOR COIL					
Face Area	Sq. Ft.	4.5	4.5	5.2	8.0
No. Rows		2	2	2	2
Fins per inch		18	18	18	20
Circuits		4	4	4	4
COMPRESSOR					
Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Model		ATM115D43UFZ2	ATM115D43UFZ2	ATF235D22UMT	ATF235D22UMT
Oil Type		VG74	VG74	VG74	VG74
Oil Charge	Fl. Oz.	17.6	17.6	23.6	23.6
Rated Current	RLA	5.3	5.7	12.3	14.0
OUTDOOR					
Unit Width	in (mm)	32.09 (815)	32.09 (815)	33.66 (855)	37.24 (946)
Unit Height	in (mm)	21.81 (554)	21.81 (554)	27.63 (702)	31.89 (810)
Unit Depth	in (mm)	13.11 (333)	13.11 (333)	14.17 (360)	16.14 (410)
Net Weight	lbs (kg)	91.5 (41.5)	91.5 (41.5)	118.2 (53.6)	145.5 (66)
Airflow	CFM	1,200	1,200	1,390	2,130
Sound Pressure	dB(A)	55.5	56.0	57.5	60.5

* Condensing unit above or below indoor unit

COMPATIBILITY TABLE

INDOOR UNIT				
40MBQB09D---3	40MBQB12D---3	40MBQB18D---3	40MBQB24D---3	
OUTDOOR UNIT SINGLE ZONE				
38MAQB09R--3	38MAQB12R--3	38MAQB18R--3	38MAQB24R--3	
38MAQB09---3	38MAQB12---3	38MAQB18---3	38MAQB24---3	
OUTDOOR UNIT MULTI-ZONE				
38MGRQ18B--3				
38MGRQ24C--3				
38MGRQ30D--3				
38MGRQ36D--3				
38MGRQ48E--3				

38MBQ OUTDOOR UNIT PRICING

HEAT PUMP WITH BASEPAN HEATER

Inverter Compressor
 Up to 16.5 SEER
 Up to 8.5 HSPF
 Sizes: 36 / 48

FEATURES:

- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Built-in basepan heater
- Condenser high-temperature protection
- Auto-restart function
- Follow Me (senses temperature at handheld remote)
- Refrigerant leakage detection
- Quiet indoor operation, as low as 30 dB(A)
- Heating Setback (46° F Heating Mode)
- Piping length 213 ft.
- Built-in condensate pump
- Rear or bottom return on duct unit
- Cooling operating range -4° ~ 122° F (-20° ~ 50° C)
- Heating operating range -4° ~ 86° F (-20° ~ 30° C)

CONROLS:

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



Performance
 SERIES



**VERTICAL, HIGH
 STATIC MODELS
 COMING SOON!**

LIGHT COMMERCIAL DUCTED HEAT PUMP SINGLE ZONE INVERTER SYSTEMS

OUTDOOR UNIT***	INDOOR UNIT	RATED HEATING BTUH	RATED COOLING BTUH	SEER	EER	STOCK STATUS OUTDOOR	STOCK STATUS INDOOR
38MBQB36---3	40MBQB36D--3	38,000	36,000	17.0	8.8	Stock	Stock
38MBQB48---3	40MBQB48D--3	49,000	48,000	15.5	8.2	Stock	Stock

Built In Condensate Pump
 Wired Control & Wireless remote control included with indoor unit.
 208/230V 1Ph. Indoor unit is powered from outdoor unit.



38MBQ OUTDOOR UNIT SPECS

HEAT PUMP

SYSTEM			
Size		36	48
Outdoor Model		38MBQB36---3	38MBQB48---3
ELECTRICAL			
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60
MCA	A.	30	35
MOCP - Fuse Rating	A.	50	55
OPERATING RANGE			
Cooling Indoor DB Min -Max	° F (° C)	-4~-122 (-20~-50)	-4~-122 (-20~-50)
Heating Indoor DB Min -Max	° F (° C)	-4~-86 (-20~-30)	-4~-86 (-20~-30)
PIPING			
Total Piping Length	ft (m)	213 (65)	213 (65)
Piping Lift*	ft (m)	98 (30)	98 (30)
Pipe Connection Size - Liquid	in (mm)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	5/8 (16)	5/8 (16)
REFRIGERANT			
Type		R410A	R410A
Charge	lbs (kg)	7.5 (3.4)	9.48 (4.3)
Metering Device		EEV	EEV
OUTDOOR COIL			
Face Area	Sq. Ft.	8.2	14.1
No. Rows		2.6	2
Fins per inch		17	17
Circuits		6	10
COMPRESSOR			
Type		Rotary Inverter	Rotary Inverter
Model		TNB306FPGMC-L	MNB36FAAMC-L
Oil Type		FV50S	FV50S
Oil Charge	Fl. Oz.	36.2	47.3
Rated Current	RLA	13.5	13.5
OUTDOOR			
Unit Width	in (mm)	37.20 (945)	36.93 (938)
Unit Height	in (mm)	31.89 (810)	53.90 (1369)
Unit Depth	in (mm)	15.55 (395)	15.43 (392)
Net Weight	lbs (kg)	160.94 (73)	220 (100)
Airflow	CFM	2,940	4,240
Sound Pressure	dB(A)	65.0	65.0

* Condensing unit above or below indoor unit

COMPATIBILITY TABLE

	INDOOR UNIT		OUTDOOR UNIT	
	38MBQB36---3	38MBQB48---3	38MBQB36---3	38MBQB48---3
DUCTED				
40MBQB36D--3			•	
40MBQB48D--3				•
PERFORMANCE				
Indoor Model		40MBQB36D--3		40MBQB48D--3
Energy Star		NO		NO
Cooling System Tons		3.0		4.0
Cooling Rated Capacity	Btu/h	36,000		48,000
Cooling Cap. Range Min - Max	Btu/h	8,500~38,000		9,000~50,000
SEER		15.5		16.5
EER		8.5		8.2
Heating Rated Capacity (47°F)	Btu/h	38,000		50,000
Heating Rated Capacity (17°F)	Btu/h	24,400		35,000
Heating Maximum Capacity (17°F)	Btu/h	29,700		32,800
Heating Capacity (5°F)	Btu/h	24,100		26,900
Heating Cap. Range Min - Max	Btu/h	9,500~50,000		10,000~55,000
HSPF		10.5		10.0
COP (47°F)	W/W	3.45		3.45
COP (17°F)	W/W	2.24		2.07
COP (5°F)	W/W	1.92		1.83

DUCTED

MB*C CASSETTE SYSTEM & PRICING

HEAT PUMP WITH BASEPAN HEATER

Variable Speed (Inverter)
 Up to 20.5 SEER
 Up to 10.0 HSPF
 Sizes: 09 / 12 / 18
 All systems are ENERGY STAR® certified



FEATURES:

- 100% heating capacity at 5° F (-15° C)
 Sizes 9-24 (208/230V)
- Available in 115V and 208/230V
- Built-in basepan heater
- Modes: Cool, Heat, Dry, Fan, Auto
- Timer
- Auto-Restart Function
- Built-in condensate pump
- Louver control (fixed or swing)
- Follow me
- Quiet operation, as low as 34 dB(A)
- 46° F Heating Mode (heating setback)
- Piping length 82 ft. ~ 98 ft.
- Cooling operating range
 -13° ~ 122° F (-25° ~ 50° C)
- Heating operating range
 -22° ~ 86° F (-30° ~ 30° C) – Sizes 9-18 (208/230V)

CONTROLS:

- Wireless Remote Controller included with indoor unit
- Wired Remote Controller (optional)



Performance
 SERIES

MAR-MB*C SERIES CASSETTE HEAT PUMP SINGLE ZONE INVERTER SYSTEMS

OUTDOOR UNIT***	INDOOR UNIT	INDOOR UNIT GRILLE	SEER	EER	STOCK STATUS OUTDOOR	STOCK STATUS INDOOR	STOCK STATUS GRILLE
38MAQB09R--3	40MBQB09C--3	40MBQB01C---	17.0	12.5	Stock	Stock	Stock
38MAQB12R--3	40MBQB12C--3	40MBQB01C---	17.0	12.5	0AN	Stock	Stock
38MAQB18R--3	40MBQB18C--3	40MBQB01C---	17.0	12.5	Stock	Stock	Stock

Wireless remote control included with indoor unit. Wired remote control accessory available separately.
 Indoor Cassette Grille required, sold separately.
 208/230V 1Ph. Indoor unit is powered from outdoor unit.
 Built-in condensate lift pump included with indoor cassette unit.

See page 49 for complete accessories listing.



MB*C CASSETTE SPECS

INDOOR CASSETTE				
SYSTEM				
Size		9	12	18
Indoor Model		40MBQB09C--3	40MBQB12C--3	40MBQB18C--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.	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

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

OUTDOOR UNIT				
SYSTEM				
Size		9	12	18
Outdoor Model		38MAQB09R--3	38MAQB12R--3	38MAQB18R--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.	A.	15	15	25
OPERATING RANGE				
Cooling Indoor DB Min -Max	° F (° C)	-13~-122 (-25~-50)	-13~-122 (-25~-50)	-13~-122 (-25~-50)
Heating Indoor DB Min -Max	° F (° C)	-22~-86 (-30~30)	-22~-86 (-30~30)	-22~-86 (-30~30)
PIPING				
Total Piping Length	ft (m)	82 (25)	82 (25)	98 (30)
Piping Lift*	ft (m)	32 (10)	32 (10)	65 (20)
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)
REFRIGERANT				
Type		R410A	R410A	R410A
Charge	lbs (kg)	3.31 (1.5)	3.31 (1.5)	4.30 (1.95)
Metering Device		EEV	EEV	EEV
OUTDOOR COIL				
Face Area	Sq. Ft.	4.5	4.5	5.2
No. Rows		2	2	2
Fins per inch		18	18	18
Circuits		4	4	4
COMPRESSORS				
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
OUTDOOR				
Unit Width	in (mm)	32.09 (815)	32.09 (815)	33.66 (855)
Unit Height	in (mm)	21.81 (554)	21.81 (554)	27.63 (702)
Unit Depth	in (mm)	13.11 (333)	13.11 (333)	14.17 (360)
Net Weight	lbs (kg)	91.5 (41.5)	91.5 (41.5)	118.2 (53.6)
Airflow	CFM	1,200	1,200	1,390
Sound Pressure	dB(A)	55.5	56.0	57.5

* Condensing unit above or below indoor unit

COMPATIBILITY TABLE		
INDOOR UNIT		
40MBQB09C--3	40MBQB12C--3	40MBQB18C--3
OUTDOOR UNIT SINGLE ZONE		
38MAQB09R--3	38MAQB12R--3	38MAQB18R--3
38MAQB09---3	38MAQB12---3	38MAQB18---3
OUTDOOR UNIT MULTI-ZONE		
38MGQC18---3		
38MGQD27---3		
38MGQF36---3		
38MGQF48---3		
38MGRQ18B--3		
38MGRQ24C--3		
38MGRQ30D--3		
38MGRQ36D--3		
38MGRQ48E--3		

MB*F FLOOR CONSOLE SYSTEM & PRICING

HEAT PUMP WITH BASEPAN HEATER

Variable Speed (Inverter)
 Up to 20.5 SEER
 Up to 10.0 HSPF
 Sizes: 09 / 12
 All systems are ENERGY STAR® certified



FEATURES OUTDOOR:

- 100% heating capacity at 5° F (-15° C)
 Sizes 9-24 (208/230V)
- Available in 115V and 208/230V
- Built-in basepan heater
- Modes: Cool, Heat, Dry, Fan, Auto
- Timer
- Auto-Restart Function
- Follow me
- Quiet operation, as low as 34 dB(A)
- 46° F Heating Mode (Heating Setback)
- Piping length 82 ft.
- Cooling operating range
 -13° ~ 122° F (-25° ~ 50° C)
- Heating operating range
 -22° ~ 86° F (-30° ~ 30° C) – Sizes 9-12 (208/230V)

CONTROLS:

Wireless Remote Controller included with indoor unit
 Wired Remote Controller (optional)



Performance
 SERIES

MAR -MB*F SERIES CONSOLE HEAT PUMP SINGLE ZONE INVERTER SYSTEM

OUTDOOR UNIT***	INDOOR UNIT	RATED HEATING BTUH	RATED COOLING BTUH	SEER	EER	LOCAL STOCK OUT-DOOR	LOCAL STOCK INDOOR
38MAQB09R--3	40MBQB09F--3	9,500	9,000	18.5	11.5	Stock	Stock
38MAQB12R--3	40MBQB12F--3	12,000	12,000	20.5	12.5	Stock	Stock

Wireless remote control included with indoor unit. Wired remote control accessory available separately.
 208/230V 1Ph. Indoor unit is powered from outdoor unit.

See Page 49 for Complete Accessories Listing.



MB*F FLOOR CONSOLE SPECS

INDOOR FLOOR CONSOLE

SYSTEM			
Size		9	12
Indoor Model		40MBQB09F--3	40MBQB12F--3
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.	A.	0.29	0.29
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)	63~90 (17~32)
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.)	Sq. Ft.	2.1	2.1
No. Rows		2	2
Fins per inch		19	19
Circuits		2	2
INDOOR			
Unit Width	in (mm)	27.56 (700)	27.56 (700)
Unit Height	in (mm)	23.62 (600)	23.62 (600)
Unit Depth	in (mm)	8.27 (210)	8.27 (210)
Net Weight	lbs (kg)	32.41 (14.7)	32.41 (14.7)
Number of Fan Speeds		3	3
Airflow (lowest to highest)	CFM	220/250/280	220/250/280
Sound Pressure (lowest to highest)	dB(A)	37/38/41	34/41/45

COMPATIBILITY TABLE

INDOOR UNIT	
40MBQB09F--3	40MBQB12F--3
OUTDOOR UNIT SINGLE ZONE	
40MBQB09F--3	40MBQB12F--3
38MAQB09---3	38MAQB12---3
OUTDOOR UNIT MULTI-ZONE	
38MGQC18---3	
38MGQD27---3	
38MGQF36---3	
38MGQF48---3	
38MGRQ18B--3	
38MGRQ24C--3	
38MGRQ30D--3	
38MGRQ36D--3	
38MGRQ48E--3	

OUTDOOR UNIT

SYSTEM			
Size		9	12
Indoor Model		38MAQB09R--3	38MAQB12R--3
ELECTRICAL			
Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60
MAC	A.	9	9
MOCP - Fuse Rating	A.	15	15
OPERATING RANGE			
Cooling Indoor DB Min -Max	° F (° C)	-13~122 (-25~50)	-13~122 (-25~50)
Heating Indoor DB Min -Max	° F (° C)	-22~86 (-30~30)	-22~86 (-30~30)
PIPING			
Total Piping Length	ft (m)	82 (25)	82 (25)
Piping Lift*	ft (m)	32 (10)	32 (10)
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)
REFRIGERANT			
Type		R410A	R410A
Charge	lbs (kg)	3.31 (1.5)	3.31 (1.5)
Metering Device		EEV	EEV
OUTDOOR COIL			
Face Area	Sq. Ft.	4.5	4.5
No. Rows		2	2
Fins per inch		18	18
Circuits		4	4
COMPRESSOR			
Type		Rotary Inverter	Rotary Inverter
Model		ATM115D43UFZ2	ATM115D43UFZ2
Oil Type		VG74	VG74
Oil Charge	Fl. Oz.	17.6	17.6
Rated Current	RLA	5.3	5.7
OUTDOOR			
Type		Rotary Inverter	Rotary Inverter
Model		ATM115D43UFZ2	ATM115D43UFZ2
Oil Type		VG74	VG74
Oil Charge	Fl. Oz.	17.6	17.6
Rated Current	RLA	5.3	5.7

* Condensing unit above or below indoor unit

MGR SERIES OUTDOOR UNIT SYSTEM & PRICING

HEAT PUMP WITH BASEPAN HEATER

Inverter Compressor

Up to 23.8 SEER

Up to 10.5 HSPF

Sizes: 18 / 24 / 30 / 36 / 48

Select systems are ENERGY STAR® certified based on indoor combinations



18k



24-30k



36k - 48k



High Wall



Cassette



Floor Console



Ducted

FEATURES:

- 100% Heating Capacity at 5°F (-15°C) - Sizes 24-36 (208/230V)
- Connect 2 ~ 5, multiple-style indoor units
- Basepan Heater factory installed
- Quiet outdoor operation, as low 62 dB(A)
- Aluminum Blue Hydrophilic pre-coated fins
- Total piping length 131~328 ft. (40~100 m)
- Vertical Lift/Drop piping Length 49~65 ft (15~20 m)
- Cooling operating range -13°~122°F (-25°~50°C)
- Heating operating range -22°~86°F (-30°~30°C)

COMPATIBLE WITH:

- 40MAQ High Wall
- 40MB*C Cassette
- 40MB*D Ducted
- 40MB*F Floor Console



*Conversion joints shipped with outdoor unit.

COMBINATIONS:

To access the Combination Charts, please see tables on page 36



MGR SERIES MULTI-ZONE HEAT PUMPS

OUTDOOR UNITS	MIN 2 ZONES ALL SIZES, MAX ZONES:	COOLING RATED CAPACITY BTU/H*	HEATING RATED CAPACITY BTU/H*	SEER / EER AS HIGH AS	HSPF AS HIGH AS	MCA	MOPA	LOCAL STOCK
38MGRQ18B--3	2	18,000	19,000	22.5 / 12.5	10.3	18	25	Stock
38MGRQ24C--3	3	24,000	23,000	23 / 12.5	9.8	25	35	Stock
38MGRQ30D--3	4	30,000	28,000	23.8 / 12.5	10	30	45	Stock
38MGRQ36D--3	4	36,000	36,000	21.5 / 13.5	10.5	35	50	Stock
38MGRQ48E--3	5	48,000	48,000	22.4 / 12.5	10.2	35	50	Stock

INDOOR UNITS	TYPE/COLOR	BTU	LINE SET SIZES	CONTROLLER	INDOOR UNIT PRODUCT IMAGE	LOCAL STOCK
40MAQB09B--3	High Wall / White	9K	1/4" X 3/8"	Wireless Remote Included		Stock
40MAQB12B--3		12K	1/4" X 1/2"			Stock
40MAQB18B--3		18K	1/4" X 1/2"			Stock
40MAQB24B--3		24K	3/8" X 5/8"			Stock
40MBQB09D--3	Ceiling Concealed Ducted	9K	1/4" X 3/8"	Wired Wall Mount Controller Included		Stock
40MBQB12D--3		12K	1/4" X 1/2"			Stock
40MBQB18D--3		18K	1/4" X 1/2"			Stock
40MBQB24D--3		24K	3/8" X 5/8"			Stock
40MBQB09C--3	Ceiling Cassette White, Order Grille!	9K	1/4" X 3/8"	Wireless Remote Included		Stock
40MBQB12C--3		12K	1/4" X 1/2"			Stock
40MBQB18C--3		18K	1/4" X 1/2"			Stock
40MBQB01C--	Req'd Cassette Grille - Fits 9, 12 & 18					Stock
40MBQB09F--3	Floor Console White	9K	1/4" X 3/8"	Wireless Remote Included		Stock
40MBQB12F--3		12K	1/4" X 1/2"			Stock

MGR SERIES SPECS

HEAT PUMP

SYSTEM

Size	18	24	30	36	48
Outdoor Model	38MGRQ18B--3	38MGRQ24C--3	38MGRQ30D--3	38MGRQ36D--3	38MGRQ48E--3
Max Number of Zones	2	3	4	4	5

PERFORMANCE NON-DUCTED

Energy Star	YES	YES	YES	YES	YES
Cooling System Tons	1.5	2.0	2.5	3.0	4.0
Cooling Rated Capacity	Btu/h 18,000	24,000	30,000	36,000	48,000
Cooling Cap. Range Min - Max	Btu/h 5810~21940	7880~33510	8090~41470	8560~45020	8560~53160
SEER	22.5	23	23.8	21.5	22.4
EER	12.5	12.5	12.5	13.5	12.5
Heating Rated Capacity (47°F)	Btu/h 19,000	23,000	28,000	36,000	48,000
Heating Rated Capacity (17°F)	Btu/h 12,000	13,600	17,400	23,200	29,600
Heating Maximum Capacity (5°F)	Btu/h 13,900	23,000	28,000	36,000	36,000
Heating Cap. Range Min - Max	Btu/h 5760~24480	6010~36180	6350~41950	7210~50350	7210~55820
HSPF	10.3	9.8	10.0	10.5	10.2
COP (47°F)	W/W 3.6	3.9	3.8	3.8	3.6
COP (17°F)	W/W 2.8	2.7	2.8	2.8	2.7
COP (5°F)	W/W 2.2	2.1	2.0	1.8	2.0

PERFORMANCE COMBINATION DUCTED AND NON-DUCTED

Energy Star	NO	YES	NO	NO	NO	
Cooling System Tons	1.5	1.9	2.4	3.0	4.0	
Cooling Rated Capacity	Btu/h 18,000	23,000	29,000	35,500	48,000	48,000
Cooling Cap. Range Min - Max	Btu/h 5795~20708	7765~31955	8060~39990	8510~42635	8510~52580	8510~52580
SEER	20.45	21	21.65	19.25	20	
EER	12.15	12.5	12	12.15	11.3	
Heating Rated Capacity (47°F)	Btu/h 18,750	22,000	28,000	36,000	49,000	49,000
Heating Rated Capacity (17°F)	Btu/h 11,700	12,900	17,300	23,800	31,300	31,300
Heating Maximum Capacity (5°F)	Btu/h 14,150	22,000	28,000	35,500	36,400	36,400
Heating Cap. Range Min - Max	Btu/h 5650~24365	5980~36190	6275~42305	7045~47800	7045~54935	7045~54935
HSPF	9.9	9.3	9.5	9.9	10.2	
COP (47°F)	W/W 3.7	3.9	3.7	3.7	3.5	3.5
COP (17°F)	W/W 2.7	2.6	2.7	2.7	2.7	
COP (5°F)	W/W 2.1	2.0	2.0	1.8	1.9	

PERFORMANCE DUCTED

Energy Star	NO	YES	NO	NO	NO
Cooling System Tons	1.5	1.8	2.3	2.9	4.0
Cooling Rated Capacity	Btu/h 18,000	22,000	28,000	35,000	48,000
Cooling Rated Capacity	Btu/h 18,000	22,000	28,000	35,000	48,000
SEER	18.4	19	19.5	17	17.6
EER	11.8	12.5	11.5	10.8	10.1
Heating Rated Capacity (47°F)	Btu/h 18,500	21,000	28,000	36,000	50,000
Heating Rated Capacity (17°F)	Btu/h 11,400	12,200	17,200	24,400	33,000
Heating Maximum Capacity (5°F)	Btu/h 14,400	21,000	28,000	35,000	36,800
Heating Cap. Range Min - Max	Btu/h 5539~24249	5950~36200	6200~42660	6880~45250	6880~54050
HSPF	9.4	8.8	9.0	9.2	10.1
COP (47°F)	W/W 3.8	3.8	3.6	3.6	3.4
COP (17°F)	W/W 2.7	2.5	2.5	2.5	2.6
COP (5°F)	W/W 2.1	2.0	2.0	1.7	1.8

OPERATING RANGE

Cooling Outdoor DB Min - Max	° F (° C)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)	-13~122 (-25~50)
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)

PIPING

Total Piping Length	ft (m)	131(40)	197(60)	263(80)	328(100)	328(100)
Piping to furthest FCU	ft (m)	82 (25)	98 (30)	115(35)	115(35)	115 (35)
Drop (OD above ID)	ft (m)	49(15)	49(15)	49(15)	65(20)	65(20)
Lift (OD below ID)	ft (m)	49(15)	49(15)	49(15)	65(20)	65(20)
Pipe Connection Size - Liquid	in (mm)	1/4*2 (6.35*2)	1/4*2 (6.35*3)	1/4*2 (6.35*4)	1/4*2 (6.35*4)	1/4*2 (6.35*5)
Pipe Connection Size - Liquid	in (mm)	3/8*2 (9.52*2)	3/8*2 (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 *1+ 3/8*3 (12.7*1+9.52*3)

REFRIGERANT

Type		R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	4.41 (2.0)	6.17(2.8)	6.61 (3.0)	10.13 (4.6)	10.13 (4.6)
Metering Device		EEV	EEV	EEV	EEV	EEV

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
Power Supply		Indoor unit powered from outdoor unit				
MCA	A.	18	25	30	35	35
MOCF - Fuse Rating	A.	25	35	45	50	50

COMPRESSOR

Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Model		ATM150D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ360D1UMU	ATQ360D1UMU
Oil Type		ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74	ESTER OIL VG74
Oil Charge	Fl. Oz.	17.64	23.58	35.27	49.38	49.38
Rated Current	RLA	10	15	19	21	21
Outdoor						
Unit Width	in (mm)	37.31 (948)	41.22 (1047)	41.22 (1047)	41.15 (1045)	41.15 (1045)
Unit Height	in (mm)	27.64 (702)	31.88 (810)	31.88 (810)	52.48 (1333)	52.48 (1333)
Unit Depth	in (mm)	14.82 (376)	17.91 (455)	17.91 (455)	17.63 (448)	17.63 (448)
Net Weight	lbs (kg)	105.8 (48)	149.9 (68)	156.5 (71)	221.6 (100.5)	223.8 (101.5)
Airflow	CFM	1,390	2,130	2,130	4,500	4,500
Sound Pressure	dB(A)	62	63	62	64	64

MGR SERIES SPECS

HEAT PUMP			
2-ZONE	3-ZONE	4-ZONE	5-ZONE
38MGRQ18B--3			
9+9			
9+12			
12+12			
38MGRQ24C--3			
9+9	9+9+9		
9+12	9+9+12		
9+18	9+9+18		
12+12	9+12+12		
12+18	12+12+12		
18+18			
38MGRQ30D--3			
9+9	9+9+9	9+9+9+9	
9+12	9+9+12	9+9+9+12	
9+18	9+9+18	9+9+9+18	
9+24	9+12+12	9+9+12+12	
12+12	9+12+18	9+9+12+18	
12+18	9+18+18	9+12+12+12	
12+24	12+12+12	12+12+12+12	
18+18	12+12+18		
	12+18+18		
	12+12+24		
38MGRQ36D--3			
9+18	9+9+9	9+9+9+9	
9+24	9+9+12	9+9+9+12	
12+12	9+9+18	9+9+9+18	
12+18	9+9+24	9+9+9+24	
12+24	9+12+12	9+9+12+12	
18+18	9+12+18	9+9+12+18	
18+24	9+12+24	9+9+12+24	
24+24	9+18+18	9+9+18+18	
	9+18+24	9+9+18+24	
	9+24+24	9+12+12+12	
	12+12+12	9+12+12+18	
	12+12+18	9+12+12+24	
	12+12+24	9+12+18+18	
	12+18+18	9+18+18+18	
	12+18+24	12+12+12+12	
	12+24+24	12+12+12+18	
	18+18+18	12+12+12+24	
	18+18+24	12+12+18+18	
38MGRQ48E--3			
9+18	9+9+9	9+9+9+9	9+9+9+9+9
9+24	9+9+12	9+9+9+12	9+9+9+9+12
12+12	9+9+18	9+9+9+18	9+9+9+9+18
12+18	9+9+24	9+9+9+24	9+9+9+9+24
12+24	9+12+12	9+9+12+12	9+9+9+12+12
18+18	9+12+18	9+9+12+18	9+9+9+12+18
18+24	9+12+24	9+9+12+24	9+9+9+18+18
24+24	9+18+18	9+9+18+18	9+9+12+12+12
	9+18+24	9+9+18+24	9+9+12+12+18
	9+24+24	9+12+12+12	9+12+12+12+12
	12+12+12	9+12+12+18	9+12+12+12+18
	12+12+18	9+12+12+24	12+12+12+12+12
	12+12+24	9+12+18+18	
	12+18+18	9+18+18+18	
	12+18+24	12+12+12+12	
	12+24+24	12+12+12+18	
	18+18+18	12+12+12+24	
	18+18+24	12+12+18+18	

*All required conversion joints shipped in outdoor unit.

MGR SERIES SYSTEM BUNDLES



NEW!



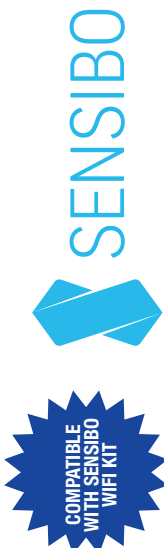
HIGH HEAT SOLUTION

CARRIER PERFORMANCE 38MGR MULTI ZONE BUNDLES

CARRIER PERFORMANCE 38MGR MULTI ZONE BUNDLES

2 ZONES HIGH WALL - HEAT PUMP SYSTEM BUILDER WITH 38MGRQ18B---3					ACCESSORIES			
COMBO SIZES	OUTDOOR UNIT	INDOOR UNIT 1	INDOOR UNIT 2	INDOOR UNIT 3	50" WHITE LINE SET INDOOR UNIT 1	50" WHITE LINE SET INDOOR UNIT 2	50" WHITE LINE SET INDOOR UNIT 3	
9+9	38MGRQ18B--3	40MAQB09B--3	40MAQB09B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH		
9+12	38MGRQ18B--3	40MAQB09B--3	40MAQB12B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH		
12+12	38MGRQ18B--3	40MAQB12B--3	40MAQB12B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
**Accessory Price Total above includes 50" White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6NM Non fused Disconnect 83335								
2 ZONE HIGH WALL - HEAT PUMP SYSTEM BUILDER WTH 38MGRQ24C---3								
9+9	38MGRQ24C--3	40MAQB09B--3	40MAQB09B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH		
9+12	38MGRQ24C--3	40MAQB09B--3	40MAQB12B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
9+18	38MGRQ24C--3	40MAQB09B--3	40MAQB18B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
12+12	38MGRQ24C--3	40MAQB12B--3	40MAQB12B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
12+18	38MGRQ24C--3	40MAQB12B--3	40MAQB18B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
18+18	38MGRQ24C--3	40MAQB18B--3	40MAQB18B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
**Accessory Price Total above includes 50" White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6NM Non fused Disconnect 83335								
3 ZONE HIGH WALL - HEAT PUMP SYSTEM BUILDER WTH 38MGRQ24C---3								
9+9+9	38MGRQ24C--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	
9+9+12	38MGRQ24C--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
9+9+18	38MGRQ24C--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
9+12+12	38MGRQ24C--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
12+12+12	38MGRQ24C--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
2 ZONE HIGH WALL - HEAT PUMP SYSTEM BUILDER WTH 38MGRQ30D---3								
9+9	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH		
9+12	38MGRQ30D--3	40MAQB09B--3	40MAQB12B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
9+18	38MGRQ30D--3	40MAQB09B--3	40MAQB18B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
9+24	38MGRQ30D--3	40MAQB09B--3	40MAQB24B--3		LS-1/4X3/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH		
12+12	38MGRQ30D--3	40MAQB12B--3	40MAQB12B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
12+18	38MGRQ30D--3	40MAQB12B--3	40MAQB18B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
12+24	38MGRQ30D--3	40MAQB12B--3	40MAQB24B--3		LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH		
18+18	38MGRQ30D--3	40MAQB18B--3	40MAQB18B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH		
**Accessory Price Total above includes 50" White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6NM Non fused Disconnect 83335								

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CARRIER PERFORMANCE 38MGR MULTI ZONE BUNDLES

38MGRQ30D---3						
ACCESSORIES						
COMBO SIZES	OUTDOOR UNIT	INDOOR UNIT 1	INDOOR UNIT 2	INDOOR UNIT 3	INDOOR UNIT 4	50' WHITE LINE SET INDOOR UNIT 1
9+9+9	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	LS-1/4X3/8X1/2X50-WH
9+9+12	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH
9+9+18	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH
9+12+12	38MGRQ30D--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH
9+12+18	38MGRQ30D--3	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH
9+18+18	38MGRQ30D--3	40MAQB09B--3	40MAQB18B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH
12+12+12	38MGRQ30D--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH
12+12+18	38MGRQ30D--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH
12+18+18	38MGRQ30D--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH
12+12+24	38MGRQ30D--3	40MAQB12B--3	40MAQB12B--3	40MAQB24B--3	40MAQB24B--3	LS-3/8X5/8X1/2X50-WH
**Accessory Price Total above includes 50' White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6MM Non fused Disconnect 83335						
4 ZONE HIGH WALL- HEAT PUMP SYSTEM BUILDER WTH 38MGRQ30D---3						
9+9+9+9	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	LS-1/4X3/8X1/2X50-WH
9+9+9+12	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH
9+9+9+18	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH
9+9+12+12	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH
9+9+12+18	38MGRQ30D--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH
9+12+12+12	38MGRQ30D--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH
12+12+12+12	38MGRQ30D--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH
**Accessory Price Total above includes 50' White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6MM Non fused Disconnect 83335						

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CARRIER PERFORMANCE 38MGR MULTI ZONE BUNDLES

2 ZONE HIGH WALL - HEAT PUMP SYSTEM BUILDER WTH 38MGRQ36D---3		ACCESSORIES					
COMBO SIZES	OUTDOOR UNIT	INDOOR UNIT 1	INDOOR UNIT 2	INDOOR UNIT 3	50' WHITE LINE SET INDOOR UNIT 1	50' WHITE LINE SET INDOOR UNIT 2	50' WHITE LINE SET INDOOR UNIT 3
9+18	38MGRQ36D--3	40MAQB09B--3	40MAQB18B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
9+24	38MGRQ36D--3	40MAQB09B--3	40MAQB24B--3		LS-1/4X3/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	
12+12	38MGRQ36D--3	40MAQB12B--3	40MAQB12B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
12+18	38MGRQ36D--3	40MAQB12B--3	40MAQB18B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
12+24	38MGRQ36D--3	40MAQB12B--3	40MAQB24B--3		LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	
18+18	38MGRQ36D--3	40MAQB18B--3	40MAQB18B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
18+24	38MGRQ36D--3	40MAQB18B--3	40MAQB24B--3		LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	
24+24	38MGRQ36D--3	40MAQB24B--3	40MAQB24B--3		LS-3/8X5/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	

**Accessory Price Total above includes 50' White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6MM Non fused Disconnect 83335



3 ZONE HIGH WALL - HEAT PUMP SYSTEM BUILDER WTH 38MGRQ36D---3							
9+9+9	38MGRQ36D--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH
9+9+12	38MGRQ36D--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+18	38MGRQ36D--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+24	38MGRQ36D--3	40MAQB09B--3	40MAQB09B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+12+12	38MGRQ36D--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+18	38MGRQ36D--3	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+24	38MGRQ36D--3	40MAQB09B--3	40MAQB12B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+18+18	38MGRQ36D--3	40MAQB09B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+18+24	38MGRQ36D--3	40MAQB09B--3	40MAQB18B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
12+12+12	38MGRQ36D--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+18	38MGRQ36D--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+24	38MGRQ36D--3	40MAQB12B--3	40MAQB12B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
12+18+18	38MGRQ36D--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+18+24	38MGRQ36D--3	40MAQB12B--3	40MAQB18B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
18+18+18	38MGRQ36D--3	40MAQB18B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
18+18+24	38MGRQ36D--3	40MAQB18B--3	40MAQB18B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH

**Accessory Price Total above includes 50' White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6MM Non fused Disconnect 83335

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CARRIER PERFORMANCE 38MGR MULTI ZONE BUNDLES

4 ZONE HIGH WALL- HEAT PUMP SYSTEM BUILDER WITH 38MGRQ36D---3

ACCESSORIES

COMBO SIZES	OUTDOOR UNIT	INDOOR UNIT 1	INDOOR UNIT 2	INDOOR UNIT 3	INDOOR UNIT 4	50' WHITE LINE SET INDOOR UNIT 1	50' WHITE LINE SET INDOOR UNIT 2	50' WHITE LINE SET INDOOR UNIT 3	50' WHITE LINE SET INDOOR UNIT 4
9+9+9+9	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB09B--3	40MAOB09B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH
9+9+9+12	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB09B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+9+18	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB09B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+9+24	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB09B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+9+12+12	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+12+18	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB12B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+12+24	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB12B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+9+18+18	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB18B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+18+24	38MGRQ36D--3	40MAOB09B--3	40MAQB09B--3	40MAOB18B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+12+12+12	38MGRQ36D--3	40MAOB12B--3	40MAQB12B--3	40MAOB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+12+18	38MGRQ36D--3	40MAOB12B--3	40MAQB12B--3	40MAOB12B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+12+24	38MGRQ36D--3	40MAOB12B--3	40MAQB12B--3	40MAOB12B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+18+18+18	38MGRQ36D--3	40MAOB18B--3	40MAQB18B--3	40MAOB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+12+12	38MGRQ36D--3	40MAOB12B--3	40MAQB12B--3	40MAOB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+12+18	38MGRQ36D--3	40MAOB12B--3	40MAQB12B--3	40MAOB12B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+12+24	38MGRQ36D--3	40MAOB12B--3	40MAQB12B--3	40MAOB12B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
12+18+18+18	38MGRQ36D--3	40MAOB18B--3	40MAQB18B--3	40MAOB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH

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CARRIER PERFORMANCE 38MGR MULTI ZONE BUNDLES

2 ZONE HIGH WALL- HEAT PUMP SYSTEM BUILDER WITH 38MGRQ48E---3		ACCESSORIES					
COMBO SIZES	OUTDOOR UNIT	INDOOR UNIT 1	INDOOR UNIT 2	INDOOR UNIT 3	50' WHITE LINE SET INDOOR UNIT 1	50' WHITE LINE SET INDOOR UNIT 2	50' WHITE LINE SET INDOOR UNIT 3
9+18	38MGRQ48E--3	40MAQB09B--3	40MAQB18B--3		LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
9+24	38MGRQ48E--3	40MAQB09B--3	40MAQB24B--3		LS-1/4X3/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	
12+12	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
12+18	38MGRQ48E--3	40MAQB12B--3	40MAQB18B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
12+24	38MGRQ48E--3	40MAQB12B--3	40MAQB24B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
18+18	38MGRQ48E--3	40MAQB18B--3	40MAQB18B--3		LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	
18+24	38MGRQ48E--3	40MAQB18B--3	40MAQB24B--3		LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	
24+24	38MGRQ48E--3	40MAQB24B--3	40MAQB24B--3		LS-3/8X5/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	
**Accessory Price Total above includes 50' White Line Sets as showns plus Pad EP-24X48X3-P, Whip 6-12-6NIM Non fused Disconnect 83335							
3 ZONE HIGH WALL- HEAT PUMP SYSTEM BUILDER WITH 38MGRQ48E---3							
9+9+9	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH
9+9+12	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+24	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+12+12	38MGRQ48E--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+18	38MGRQ48E--3	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+24	38MGRQ48E--3	40MAQB09B--3	40MAQB12B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+18+18	38MGRQ48E--3	40MAQB09B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+18+24	38MGRQ48E--3	40MAQB09B--3	40MAQB18B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
12+12+12	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+18	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+24	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
12+18+18	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+18+24	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
12+24+24	38MGRQ48E--3	40MAQB12B--3	40MAQB24B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
18+18+18	38MGRQ48E--3	40MAQB18B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
18+18+24	38MGRQ48E--3	40MAQB18B--3	40MAQB18B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH

**Accessory Price Total above includes 50' White Line Sets as showns plus Pad EP-24X48X3-P, Whip 6-12-6NIM, Non fused Disconnect 83335

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CARRIER PERFORMANCE 38MGR MULTI ZONE BUNDLES

4 ZONE HIGH WALL- HEAT PUMP SYSTEM BUILDER WITH 38MGRQ48E---3

ACCESSORIES

COMBO SIZES	OUTDOOR UNIT	INDOOR UNIT 1	INDOOR UNIT 2	INDOOR UNIT 3	INDOOR UNIT 4	INDOOR UNIT 5	50' WHITE LINE SET INDOOR UNIT 1	50' WHITE LINE SET INDOOR UNIT 2	50' WHITE LINE SET INDOOR UNIT 3	50' WHITE LINE SET INDOOR UNIT 4
9+9+9+9	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH
9+9+9+12	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+9+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+9+24	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB24B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+9+12+12	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+12+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+12+24	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB24B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+12+12+12	38MGRQ48E--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+12+18	38MGRQ48E--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+12+24	38MGRQ48E--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB24B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+12+18+18	38MGRQ48E--3	40MAQB09B--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+12+12	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+12+18	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
12+12+12+24	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	40MAQB24B--3	40MAQB24B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
12+12+18+18	38MGRQ48E--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	40MAQB18B--3	40MAQB18B--3	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH

**Accessory Price Total above includes 50' White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6MM, Non fused Disconnect 83335

5 ZONE HIGH WALL- HEAT PUMP SYSTEM BUILDER WITH 38MGRQ48E---3

9+9+9+9+9	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH
9+9+9+9+12	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+9+9+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+9+9+24	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+9+9+12+12	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+9+12+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+9+12+24	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+9+9+18+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB09B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+12+12+12	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+9+12+12+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+12+12+12	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB12B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+12+12+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH
9+12+12+12+24	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB24B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-3/8X5/8X1/2X50-WH
9+12+12+18+18	38MGRQ48E--3	40MAQB09B--3	40MAQB09B--3	40MAQB12B--3	40MAQB12B--3	40MAQB18B--3	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X3/8X1/2X50-WH	LS-1/4X1/2X1/2X50-WH	LS-1/4X1/2X1/2X50-WH

**Accessory Price Total above includes 50' White Line Sets as shown plus Pad EP-24X48X3-P, Whip 6-12-6MM, Non fused Disconnect 83335

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BUNDLE ADDERS

To substitute a wall mount indoor unit for an equivalent size Ceiling Cassette in any of the System Builder combinations, simply add the Net Adder Per Zone as shown below.



CASSETTE INDOOR	GRILLE (REQUIRED)	EQUIV WALL MODEL	LINE SIZE FOR CASSETTE MODEL
40MBQB09C--3	40MBQB01C---	40MAQB09B--3	1/4 x 3/8
40MBQB12C--3	40MBQB01C---	40MAQB12B--3	1/4 x 1/2
40MBQB18C--3	40MBQB01C---	40MAQB18B--3	1/4 x 1/2

Note: Wireless remote control included with indoor unit.
Lift pump factory installed on indoor unit

To substitute a wall mount indoor unit for an equivalent size Ducted in any of the System Bundles combinations, simply add the Net Adder Per Zone as shown below



LOW PROFILE DUCTED INDOOR	EQUIV WALL MODEL	LINE SIZE FOR LOW PROFILE DUCTED MODEL
40MBQB09D--3	40MAQB09B--3	1/4 x 3/8
40MBQB12D--3	40MAQB12B--3	1/4 x 1/2
40MBQB18D--3	40MAQB18B--3	1/4 x 1/2
40MBQB24D--3	40MAQB24B--3	3/8 x 5/8

Note: Wireless and Wired remote controller included with indoor unit.
Lift pump factory installed on indoor unit

To substitute a wall mount indoor unit for an equivalent size Floor Console in any of the System Bundles combinations, simply add the Net Adder Per Zone as shown below



FLOOR CONSOLE INDOOR	EQUIV WALL MODEL	LINE SIZE FOR FLOOR CONSOLE MODEL
40MBQB09F--3	40MAQB09B--3	1/4 x 3/8
40MBQB12F--3	40MAQB12B--3	1/4 x 1/2

Note: Wireless remote control included with indoor unit.

See Page 49 for Complete Accessories Listing.





turn to the experts™ 

Comfort[™]

S E R I E S

FEATURES, SPECIFICATIONS, SYSTEM BUILDER & PRICING

SINGLE ZONE SYSTEMS



**Upon registration; within 90 days of installation*

MF HIGH WALL SYSTEM

COOLING ONLY – MFC HEAT PUMP – MFQ

Inverter Compressor

15.0 SEER

8.2 HSPF

Cooling Only Sizes: 09 / 12 / 18 / 22

Heat Pump Sizes: 09 / 12 / 17 / 22

FEATURES:

- Cost competitive
- Available in 115V and 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- Follow Me (senses temperature at handheld remote)
- Sleep Mode
- Quiet indoor operation, as low as 30 dB(A)
- One touch memory
- Piping length 65 ft. ~ 98 ft.
- Cooling operating range 14° ~ 115° F (-10° ~ 46° C)
- Heating operating range 5° ~ 75° F (-15° ~ 24° C)

CONTROLS:

- Wireless Remote Controller included with each indoor unit
- Optional Wired Remote Controller (Timer Function)



Comfort
SERIES

PRODUCT UPGRADE
COMING SOON

MF SERIES HIGH WALL HEAT PUMP SINGLE-ZONE SYSTEMS HEAT PUMPS

OUTDOOR UNIT	INDOOR UNIT	COOL BTUH	HEAT BTUH	SEER	EER	HSPF	STOCK STATUS OUTDOOR	STOCK STATUS INDOOR
38MFQ009--1	* 40MFQ009--1	9,000	9,000	15.0	10.5	8.2	Stock	Stock
38MFQ012--1	* 40MFQ012--1	12,000	12,000	15.0	9.5	8.2	Stock	Stock
38MFQ012--3	** 40MFQ012--3	12,000	12,000	15.0	9.5	8.2	Stock	Stock
38MFQ017--3	** 40MFQ017--3	17,000	18,000	15.0	10.5	8.2	Stock	Stock
38MFQ022---3	** 40MFQ022---3	22,000	22,000	15.0	9.5	8.2	Stock	Stock

*Outdoor Voltage is 120/1/60. **Outdoor voltage is 208-230/1/60. Indoor unit is powered from outdoor unit.

Wireless remote control included with indoor unit. Wired remote control accessory available separately.

MF HIGH WALL SYSTEM

HEAT PUMP

SYSTEM						
Size		9	12	12	17	22
Outdoor Model		38MFQ009---1	38MFQ012---1	38MFQ012---3	38MFQ017---3	38MFQ022---3
Indoor Model		40MFQ009---1	40MFQ012---1	40MFQ012---3	40MFQ017---3	40MFQ022---3
Energy Star		NO	NO	NO	NO	NO
PERFORMANCE						
Cooling System Tons		0.75	1.0	1.0	1.4	1.83
Cooling Rated Capacity	Btu/h	9,000	12,000	12,000	17,000	22,000
Cooling Cap. Range Min - Max	Btu/h	4,000-10,000	4,500-13,000	4,500-13,000	5,500-19,000	6,500-24,000
SEER		15	15	15	15	15
EER		10.5	9.5	9.5	9	9.5
Heating Rated Capacity	Btu/h	9,000	12,000	12,000	18,000	22,000
Heating Cap. Range Min - Max	Btu/h	4,000-10,500	4,500-13,000	4,500-13,000	5,500-19,500	6,500-24,500
HSPF		8.2	8.2	8.2	8.2	8.2
COP	W/W	2.4	2.3	2.3	2.3	2.8
CONTROLS						
Wireless Remote Controller (°F/°C Convertible)		Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)		Optional	Optional	Optional	Optional	Optional
OPERATING RANGE						
Wireless Remote Controller (°F/°C Convertible)		Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)		Optional	Optional	Optional	Optional	Optional
PIPING						
Cooling Outdoor DB Min - Max	° F (° C)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)
Heating Outdoor DB Min - Max	° F (° C)	5 ~75 (-15~24)	5 ~75 (-15~24)	5 ~75 (-15~24)	5 ~75 (-15~24)	5 ~75 (-15~24)
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)
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)
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
Power Supply		Indoor unit powered from outdoor unit				
MCA	A.	19	19	10	14	16
MOCP - Fuse Rating	A.	30	30	15	20	25
OUTDOOR						
Unit Width	in (mm)	30.7 (780)	30.7 (780)	30.7 (780)	29.9 (760)	33.3 (845)
Unit Height	in (mm)	21.2 (540)	21.2 (540)	21.2 (540)	23.2 (590)	27.6 (700)
Unit Depth	in (mm)	9.84 (250)	9.84 (250)	9.84 (250)	11.2 (285)	12.6 (320)
Net Weight	lbs (kg)	70.5 (32)	70.5 (32)	70.5 (32)	82.7 (37.5)	103.6 (47)
Sound Pressure	dB(A)	57	58	58	60	61
INDOOR						
Unit Width	in (mm)	26.8 (680)	30.3 (770)	30.3 (770)	35.6 (905)	40.6 (1030)
Unit Height	in (mm)	10.0 (255)	10.0 (255)	10.0 (255)	10.8 (275)	12.4 (315)
Unit Depth	in (mm)	7.0 (178)	7.4 (188)	7.4 (188)	7.8 (198)	8.6 (218)
Net Weight	lbs (kg)	15.4 (7)	16.5 (7.5)	16.5 (7.5)	19.8 (9)	26.4 (12)
Number of Fan Speeds		4	4	4	4	4
Airflow (lowest to highest)	CFM	131/160/192/215	158/194/230/240	157/193/232/240	236/294/348/395	368/458/547/580
Sound Pressure (L / M / H) Clg	dB(A)	34/39/43	36/40/44	36/40/44	37/41/45	42/46/50
Sound Pressure (L / M / H) Htg	dB(A)	30/35/40	33/38/43	31/36/42	33/38/42	38/42/46

DUCTLESS SYSTEMS FEATURES GLOSSARY

FEATURE	DESCRIPTION
46 DEGREE SETBACK	In heating operation, the preset temperature of the air conditioner can be 46 degrees F, which keeps the room temperature steady at 46 degrees F and prevents freezing when the space is unoccupied for long periods in cold weather.
AUTO LOUVER MODE	Selecting the first options in the up-down/left-right swing on the remote will cause the unit to automatically swing through these angles; or select fixed angles.
AUTO MODE	The system selects the running mode (Cool/Heat/Fan) automatically according to setpoint.
AUTO RESTART	If power loss occurs, the unit will restart when power returns with same mode, setpoint, fan speed, swing, on/off or forced operation settings after 3 minutes.
BASEPAN HEATER	Outdoor unit base pan heat cable energizes when compressor is off and temperature is less than 37 degrees F to prevent ice build up in base pan. The cable de-energizes when temperature is greater than 46 degrees F.
DEHUMIDIFYING MODE	In Dehumidification mode, the system dries, filters and slightly cools room air temperature. Use of this mode does not take the place of a dehumidifier.
EMERGENCY OPERATION	When temperature sensor error occurs, the air conditioner will display an error code and continue running in its designated mode and setpoint value instead of stopping immediately, to allow emergency operation.
FOLLOW ME & I FEEL	The remote controller becomes the temperature thermistor, controlling unit function to meet setpoint. The remote controller will send a signal to ahu board every 3 minutes. If board does not receive a signal for 7 minutes, the unit exits follow me function. If any other function is selected at the remote, Follow Me will automatically stop.
LOUVER CONTROL	see "Auto Louver Mode" above.
ONE TOUCH MEMORY	The remote stores the last settings for setpoint, mode, etc., even after the unit is commanded off.
POWER SAVING MODE	This is enabled by simultaneously pressing "TEMP" and "CLOCK" buttons on the remote; the remote display will then show "SE". When enabled in heating mode, this sets back the heating setpoint to 46F; when in cooling mode, this limits the indoor unit fan speed based on ambient outdoor temperature.
SELF CLEAN	Enables drying the indoor coil after Cool or Dry mode to help prevent organic growth.
SILENT MODE	Allows fan to run at low fan speed to minimize indoor noise.
SLEEP MODE	The setpoint will increase 2 degrees every hour for 2 hours, not to exceed 85 degrees in cooling or 62 degrees in heating mode. Fan is fixed at low speed. In Auto mode, after the first hour heat setpoint decreased by 2 degrees and cooling set point increases by 2 degrees. If system is in between those two temps, the system remains in fan mode. After 7 hours, the system returns to original set point and fan speed.
TIMER	Allows the unit to turn On at the end of a selected time period. Use the button labeled "T-ON" on the remote controller. Press this button to make the clock icon disappear, replaced with the word "ON" (blinking). Press "+" or "-" buttons to adjust timer setting 1 minute at a time. Press and hold "+" or "-" button to set timer more quickly. Press "T-ON" button again to confirm setting, and the word "ON" stops blinking. To cancel, press "T-ON" button again. T-OFF button (Timer OFF) NOTE: Under Timer On and Off status, you can set T-ON and T-OFF simultaneously. Before setting timer, be sure to set clock to correct time.
TURBO MODE	The indoor fan is fixed at turbo fan speed in cooling, heating or auto.
X FAN MODE	In Cool or Dry mode, when the unit is turned off, the indoor fan will continue operation for 10 minutes in order to dry the evaporator

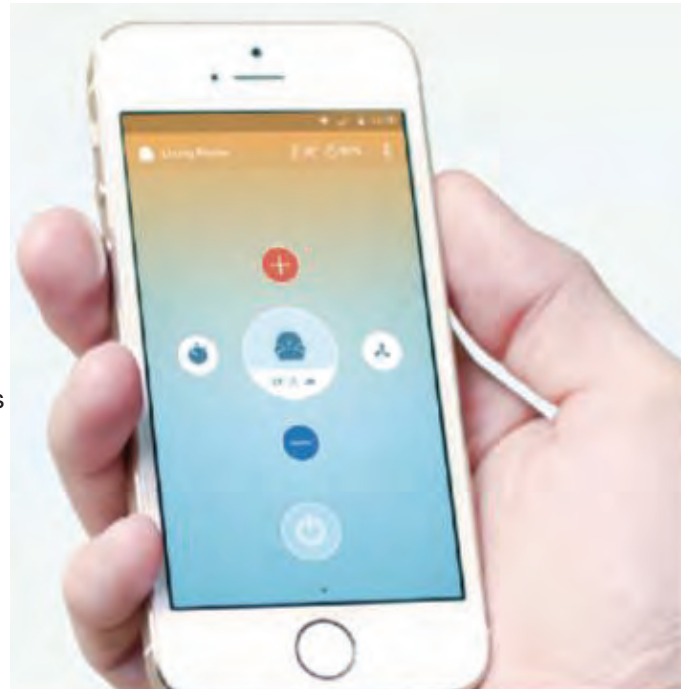
		UP-DOWN AUTOMATISWING	LEFT-RIGHT AUTOMATIC SWING
Infinity	40GRQ	X	X
Infinity	40GJQ	X	X
Performance	40MAQ	X	N/A
Comfort	40MF	X	N/A



SENSIBO INSIDE - DIRECT WI-FI®

- Compatible with Performance 40M and Preferred 619P/R Series
 - High Walls
 - Cassettes
 - Ducted
 - Floor Console
- Single Zone and Multi-zone
- One kit required per indoor unit
- Installs in Minutes
 - Easy to install hardware module to connect Carrier and Bryant Ductless Indoor Unit to Wi-Fi® network.
- Anywhere access through the “Sensibo Inside” mobile app

Go to www.sensibo.com for more information



INSTALLATION ACCESSORIES

INSTALLATION ACCESSORIES

PRE INSULATED LINE SETS

PART NUMBER	DESCRIPTION
LS-1/4X3/8X1/2X25-WH	1/4 liquid - 3/8 vapor 25 ft 1/2" thick ins, 45° flare connection
LS-1/4X1/2X1/2X25-WH	1/4 liquid - 1/2 vapor 25 ft 1/2" thick ins, 45° flare connection
LS-3/8X5/8X1/2X25-WH	3/8 liquid - 5/8 vapor 25 ft 1/2" thick ins, 45° flare connection
LS-1/4X3/8X1/2X50-WH	1/4 liquid - 3/8 vapor 50 ft 1/2" thick ins, 45° flare connection
LS-1/4X1/2X1/2X50-WH	1/4 liquid - 1/2 vapor 50 ft 1/2" thick ins, 45° flare connection
LS-3/8X5/8X1/2X50-WH	3/8 liquid - 5/8 vapor 50 ft 1/2" thick ins, 45° flare connection

SLIMDUCT SD SERIES LINESET DUCTING SYSTEM

PART NUMBER	DESCRIPTION
SD-77-W	SlimDuct 78 in. White
SJ-77-W	Coupler - White
SW-77-W	Wall Inlet - White
SP-77-W	Soffit Inlet White
SEN-77-W	End Fitting - White
SK-77-W	90 Deg. Flat Elbow-White
SD-100-W	SlimDuct 78 in. White
SJ-100-W	Coupler - White
SW-100-W	Wall Inlet - White
SP-100-W	Soffit Inlet-White
SEN-100-W	End Fitting - White
SK-100-W	90 Deg. Flat Elbow-White

INSTALLATION MATERIALS & TOOLS

PART NUMBER	DESCRIPTION
70200-MSK	MasterCool Mini Split Install Tool Kit
WIRE144250	250' Spool 14/4 Stranded Communication Cable
60652	8 Head Torque Kit
QSMS1801	Quick Sling 18" Fixed Stand - Wide
X85-003	Blue Diamond Condensate Pump 120/240 V
CVMINI	ClearVue Cond Pump -120/240 V
KSACN0401AAA	Programmable Wired Wall Mount Controller
97705	Mighty Bracket Mini Split Intall Support Tool
60295	Ritchie Flaring Tool
QSWB2000	Quick Sling Wall Mounted Bracket ---500lb Capacity
EP-24x48x3-P	24x48x3 E Lite Equipment Pad
97622	Rectorseal Condensate Safety Swtitch
KSACN0101AAA	Wired Wall Mount Controller
230-DL16	160' 5/8 ID Ft Roll Minisplits drain Line
SLIMWBB300	Rectorseal Condenser Bracket --- 300 lb capacity
WIRE14450	50' Spool 14/4 Stranded Communication Cable
EP-18x38x3-P	18x38x3 E Lite Equipment Pad
NPE-R410 2P	5/16 Locking Caps 2pk 86672
19173	Yellow Jacket 5/16"X1/4" Adapter
6-12-6NM	Whip
83335	Non fused Disconnect
KSACN0501AAA	Programmable for Ducted
TBD	24v Interface Kit
SEN-INS-CAR-0805	Sensibo Inside Wi-Fi interactive device for 40MAQ/619PEQ Sizes 9-30MBH
SEN-INS-CAR-1005	Sensibo Inside Wi-Fi interactive device for 40MBQ*C, 40MBQ**D, 40MBQ**F & 619P*C, 619P*D 619P*F





turn to the experts™ 

TOSHIBA

Carrier

LIGHT COMMERCIAL SYSTEM BUILDER
RAV SERIES - WALL, CASSETTE & UNDER CEILING

**FEATURES, SPECIFICATIONS,
SYSTEM BUILDER & PRICING**

RAV HIGH WALL SYSTEM SYSTEM & PRICING

HEAT PUMP INVERTER COMPRESSOR

- Up to 19.5 SEER
- Up to 11.5 HSPF
- Sizes: 18 / 24

FEATURES:

- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Turbo Mode
- One touch memory
- Quiet indoor operation, as low as 38 dB(A)
- Filter maintenance indicator
- Piping length 165 ft.
- Cooling operating range 0° ~ 109° F (-18° ~ 44° C) with wind baffle
- Heating operating range -4° ~ 59° F WB (-20° ~ 15° C WB)

CONTROLS:

- Wireless Remote Controller included with indoor unit
- Optional Wired Remote Controller

TOSHIBA
Carrier



LIGHT COMMERCIAL RAV SERIES HIGH WALL SINGLE-ZONE SYSTEMS

RAV-**KRT SERIES INVERTER HIGH-WALL HEAT PUMPS

OUTDOOR UNIT	INDOOR UNIT	COOL BTUH	HEAT BTUH	SEER	EER	HSPF	STOCK STATUS OUTDOOR	STOCK STATUS INDOOR
RAV-SP180AT2-UL	RAV-SP180KRT-UL	18,000	19,000	19.5	10.0	11.5	OAN	OAN
RAV-SP240AT2-UL	RAV-SP240KRT-UL	25,000	26,400	16.7	9.1	9.8	OAN	OAN

Wireless controller is included.

Low ambient cooling operation to 23° F standard. 5° F low ambient operation with field-fabricated wind baffle.

RAV HIGH WALL SYSTEM SPECS

HEAT PUMP

SYSTEM

Size	18	24
Outdoor Model	RAV-SP180AT2-UL	RAV-SP240AT2-UL
Indoor Model	RAV-SP180KRT-UL	RAV-SP240KRT-UL
Energy Star	NO	NO

PERFORMANCE

Cooling System Tons		1.5	2.1
Cooling Rated Capacity	Btu/h	18,000	25,000
Cooling Cap. Range Min. - Max	Btu/h	3,560~23,500	4,100~32,600
SEER		19.5	16.7
EER		10	9.1
Heating Rated Capacity	Btu/h	19,000	26,400
Heating Cap. Range Min - Max	Btu/h	2,250~23,000	3,480~30,400
HSPF		11.5	9.8
COP	W/W	2.4	2.3

CONTROLS

Wireless (°C, °F, Convertible)	Standard - Convertible
Wired (°C, °F, Convertible)	Optional - Convertible

OPERATING RANGE

Cooling Outdoor DB Min - Max	° F (° C)	23~110 (-5~44) [0 (-17) with wind baffle]
Heating Outdoor WB Min - Max	° F (° C)	-4~59 (-20~15)
Cooling Indoor DB Min - Max	° F (° C)	69~90 (21~32)
Heating Indoor DB Min - Max	° F (° C)	59~83 (15~28)

PIPING

Total Piping Length	ft (m)	165 (50.2)
Piping Lift *	ft (m)	100 (30.5)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)

ELECTRICAL

Voltage		208/230-1-60	
Power Supply		Indoor unit powered from outdoor unit	
MCA	A.	17	24
MOCP - Fuse Rating	A.	30	40

OUTDOOR

Dimensions (W X H X D)	in (mm)	30.7x21.7x11.4 (779x551x289)	35.4x35x12.6 (899x889x289)
Net Weight	lbs (kg)	98 (44.4)	144.5 (65.5)
Sound Pressure (Clg / Htg)	dB(A)	48 / 49	49 / 50

INDOOR

Dimensions (W X H X D)	in (mm)	41.3x12.6x9 (1049x320x228)	
Net Weight	lbs (kg)	31 (14)	
Number of Fan Speeds		3	
Airflow (L / M / H)	CFM	400/430/490	401/460/560
Sound Pressure (L / M / H)	dB(A)	38/41/43	38/41/46

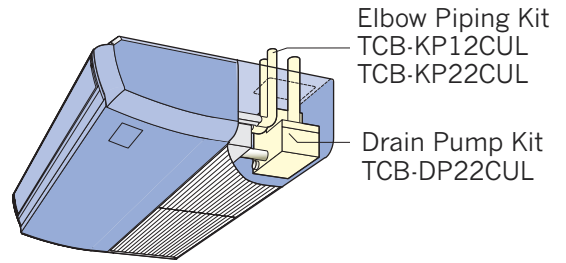
RAV UNDER CEILING SYSTEM & SPECS

HEAT PUMP INVERTER COMPRESSOR

- Up to 20.6 SEER
- Up to 11.0 HSPF
- Sizes: 18 / 24 / 30 / 36 / 42
- Two systems are ENERGY STAR® certified

FEATURES:

- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Outside air intake
- Power-saving Mode
- Quiet indoor operation, as low as 34 dB(A)
- Filter maintenance indicator
- Piping length 165 ft. ~ 245 ft.
- Cooling operating range 0° ~ 109° F
- (-18° ~ 44° C) with wind baffle
- Heating operating range -4° ~ 59° F WB
- (-20° ~ 15° C WB)



CONTROLS:

- Controller not included with indoor units, must order:
- Wireless Remote Controller
- Wired Remote Controller (convertible)

ACCESSORIES:

- Condensate Pump

RAV-**CT SERIES INVERTER UNDER-CEILING HEAT PUMPS

OUTDOOR UNIT	INDOOR UNIT	COOL BTUH	HEAT BTUH	SEER	EER	HSPF	STOCK STATUS OUTDOOR	STOCK STATUS INDOOR
RAV-SP180AT2-UL	RAV-SP180CT-UL	17,000	19,000	17.0	8.6	10.8	0AN	0AN
RAV-SP240AT2-UL	RAV-SP240CT-UL	23,600	28,800	19.5	9.0	10.3	0AN	0AN
RAV-SP300AT2-UL	RAV-SP300CT-UL	30,000	29,800	20.6	13.0	8.5	0AN	0AN
RAV-SP360AT2-UL	RAV-SP360CT-UL	36,000	38,000	20.4	12.0	11.0	0AN	0AN
RAV-SP420AT2-UL	RAV-SP420CT-UL	41,000	44,500	18.8	9.7	11.0	0AN	0AN

RAV CT/KRT Outdoor Voltage is 208-230/1/60. Indoor unit is powered from outdoor unit. Controller is not included.

RAV KRT/CT series. Low ambient cooling operation to 23°F standard. 5°F low ambient operation with field-fabricated wind baffle.

RAV UNDER CEILING SYSTEM SPECS

HEAT PUMP						
SYSTEM						
Size		18	24	30	36	42
Outdoor Model		RAV-SP180AT2-UL	RAV-SP240AT2-UL	RAV-SP300AT2-UL	RAV-SP360AT2-UL	RAV-SP420AT2-UL
Indoor Model		RAV-SP180CT-UL	RAV-SP240CT-UL	RAV-SP300CT-UL	RAV-SP360CT-UL	RAV-SP420CT-UL
Energy Star		NO	NO	YES	NO	NO
PERFORMANCE						
Cooling System Tons		1.4	2.0	2.5	3.0	3.4
Cooling Rated Capacity	Btu/h	17,000	23,700	30,000	36,000	41,000
Cooling Cap. Range Min. - Max	Btu/h	3,750~19,400	4,700~26,900	11,340~34,200	11,960~41,000	10,980~46,700
SEER		17.0	19.5	20.6	20.4	18.8
EER		8.6	9.0	13.0	12.0	9.7
Heating Rated Capacity	Btu/h	19,000	28,900	29,800	38,000	44,800
Heating Cap. Range Min - Max	Btu/h	2,800~21,700	3,600~32,400	9,900~33,700	11,700~42,750	9,100~50,500
HSPF		10.8	10.3	10.3	11.0	11.0
COP	W/W	2.4	2.3	2.3	2.3	2.8
CONTROLS						
Wireless Remote Controller (°F/°C Convertible)		Optional - Dedicated °F or °C				
Wired Remote Controller (°F/°C Convertible)		Optional - Convertible				
OPERATING RANGE						
Cooling Outdoor DB Min - Max	° F (° C)	23~110 (-5~44) [0 (-17) with wind baffle]				
Heating Outdoor WB Min - Max	° F (° C)	-4~59 (-20~15)				
COOLING INDOOR DB MIN - MAX	° F (° C)	69~90 (21~32)				
Heating Indoor DB Min - Max	° F (° C)	59~83 (15~28)				
Heating Outdoor DB Min - Max	° F (° C)	5 ~75 (-15~24)	5 ~75 (-15~24)	5 ~75 (-15~24)	5 ~75 (-15~24)	5 ~75 (-15~24)
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)
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)
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
Power Supply		Indoor unit powered from outdoor unit				
MCA	A.	19	19	10	14	16
MOCP - Fuse Rating	A.	30	30	15	20	25
OUTDOOR						
Unit Width	in (mm)	30.7 (780)	30.7 (780)	30.7 (780)	29.9 (760)	33.3 (845)
Unit Height	in (mm)	21.2 (540)	21.2 (540)	21.2 (540)	23.2 (590)	27.6 (700)
Unit Depth	in (mm)	9.84 (250)	9.84 (250)	9.84 (250)	11.2 (285)	12.6 (320)
Net Weight	lbs (kg)	70.5 (32)	70.5 (32)	70.5 (32)	82.7 (37.5)	103.6 (47)
Sound Pressure	dB(A)	57	58	58	60	61
INDOOR						
Unit Width	in (mm)	26.8 (680)	30.3 (770)	30.3 (770)	35.6 (905)	40.6 (1030)
Unit Height	in (mm)	10.0 (255)	10.0 (255)	10.0 (255)	10.8 (275)	12.4 (315)
Unit Depth	in (mm)	7.0 (178)	7.4 (188)	7.4 (188)	7.8 (198)	8.6 (218)
Net Weight	lbs (kg)	15.4 (7)	16.5 (7.5)	16.5 (7.5)	19.8 (9)	26.4 (12)
Number of Fan Speeds		4	4	4	4	4
Airflow (lowest to highest)	CFM	131/160/192/215	158/194/230/240	157/193/232/240	236/294/348/395	368/458/547/580
Sound Pressure (L / M / H) Clg	dB(A)	34/39/43	36/40/44	36/40/44	37/41/45	42/46/50
Sound Pressure (L / M / H) Htg	dB(A)	30/35/40	33/38/43	31/36/42	33/38/42	38/42/46

RAV CASSETTE SYSTEM & SPECS

HEAT PUMP INVERTER COMPRESSOR

- Up to 21.0 SEER
- Up to 11.9 HSPF
- Sizes: 18 / 24 / 30 / 36 / 42
- Two systems are ENERGY STAR® certified

FEATURES:

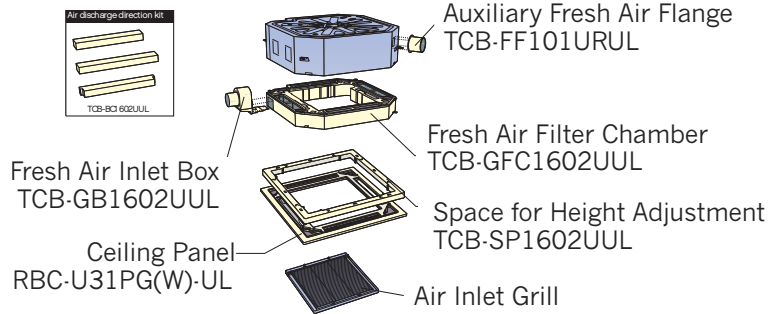
- Available in 208/230V
- Modes: Cool, Heat, Dry, Fan, Auto
- Built-in condensate pump
- Outside air intake
- Branch duct capability
- Independent louver control (fixed or swing)
- Power-saving Mode
- Quiet indoor operation, as low as 32 dB(A)
- Filter maintenance indicator
- Piping length 165 ft. ~ 245 ft.
- Cooling operating range 0° ~ 109° F (-18° ~ 44° C) with wind baffle
- Heating operating range -4° ~ 59° F WB (-20° ~ 15° C WB)

CONTROLS:

- Controller not included with indoor unit, must order:
- Wireless Remote Controller
- Wired Remote Controller (convertible)



TOSHIBA
Carrier



LIGHT COMMERCIAL RAV SERIES CASSETTE SINGLE-ZONE SYSTEMS

OUTDOOR UNIT	INDOOR UNIT*	INDOOR UNIT GRILLE	MCA	MOPA
RAV-SP180AT2-UL	RAV-SP180UT-UL	RBC-U31PG(W)-UL	17A	30A
RAV-SP240AT2-UL	RAV-SP240UT-UL	RBC-U31PG(W)-UL	24A	40A
RAV-SP300AT2-UL	RAV-SP300UT-UL	RBC-U31PG(W)-UL	24A	40A
RAV-SP360AT2-UL	RAV-SP360UT-UL	RBC-U31PG(W)-UL	24A	40A
RAV-SP420AT2-UL	RAV-SP420UT-UL	RBC-U31PG(W)-UL	24A	40A

Outdoor Voltage is 208-230/1/60. Indoor unit is powered from outdoor unit. *Controller is not included.

RAV CASSETTE SYSTEM & SPECS

RAV CASSETTE SYSTEM SPECS HEAT PUMP

SYSTEM

Size	18	24	30	36	42
Outdoor Model	RAV-SP180AT2-UL	RAV-SP240AT2-UL	RAV-SP300AT2-UL	RAV-SP360AT2-UL	RAV-SP420AT2-UL
Indoor Model	RAV-SP180OUT-UL	RAV-SP240OUT-UL	RAV-SP300OUT-IL	RAV-SP360OUT-UL	RAV-SP420OUT-UL
Energy Star	NO	NO	NO	NO	NO

PERFORMANCE

Cooling System Tons	Btu/h	1.6	2.1	2.7	3.0	3.4
Cooling Rated Capacity	Btu/h	19,000	25,000	32,000	36,500	40,800
SEER		20.5	20.7	21.0	21.0	19.0
EER		10.7	11.0	14.0	13.0	11.5
Heating Rated Capacity	Btu/h	18,800	26,000	33,400	36,000	46,000
Heating Cap. Range Min-Max	Btu/h	3,100~21,200	4,100~29,900	8,500~38,100	8,240~40,300	8,400~51,500
HSPF		11.5	9.5	11.0	11.9	10.8

CONTROLS

Wireless Remote Controller (°F / °C Convertible)		Optional - Dedicated °F or °C
Wired Remote Controller (°F / °C Convertible)		Optional - Convertible

OPERATING RANGE

Cooling Outdoor DB Min -Max	° F (° C)	23~110 [0(-17°) with Wind Baffle]
Heating Outdoor DB Min -Max	° F (° C)	-4~59 (-20~15)
Cooling Indoor DB Min -Max	° F (° C)	69~90 (21~32)
Heating Indoor DB Min -Max	° F (° C)	59~83 (15~28)

PIPING

Total Piping Length	ft. (m)	165 (50.2)	245 (74.7)			
Piping Lift	ft. (m)	100 (30.5)				
Pipe Connection Size - Liquid	in. (mm)	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)	1/2 (12.7)	5/8 (16)	5/8 (16)	5/8 (16)	5/8 (16)

ELECTRICAL

Voltage		208/230-1-60	
Power Supply		Indoor unit powered from outdoor unit	
MCA	A.	17	24
MOCP - Fuse Rating	A.	30	40

OUTDOOR

Dimensions (WxHxD)	in. (mm)	30.7x21.7x11.4 (779x551x289)	35.4x35x12.6 (899x889x289)	35.4x52.8x12.6 (899x1341x320)	
Net Weight	lbs. (kg)	98 (44.4)	144.5 (65.5)	211.5 (95.9)	
Sound Pressure (Cig/Htg)	dB(A)	48 / 49	49 / 50	50 / 51	52 / 52

INDOOR

Unit Dimensions (WxHxD)	in. (mm)	33.1x10.1x33.1 (840x256x840)	33.1x12.6x33.1 (840x320x840)			
Grille Dimensions (WxHxD)	in. (mm)	37.4x1.2x37.4 (949x30x949)				
Unit Net Weight	lbs. (kg)	44 (19.9)	53 (24)			
Grille Net Weight	lbs. (kg)		10 (4.5)			
Number of Fan Speeds			3			
Airflow (L/M/H)	cfm	450/500/600	460/550/700	670/820/1150	700/820/1200	700/820/1200
Sound Pressure (L/M/H)	dB(A)	34/35/37	34/35/39	36/40/46	38/41/47	38/41/47



turn to the experts™



Performance™ SERIES

**LIGHT COMMERCIAL SYSTEM BUILDER
MK-AHA NON INVERTER SERIES -
WALL, CASSETTE & UNDER CEILING
FEATURES, SPECIFICATIONS, SYSTEM
BUILDER & PRICING**



**SLIM LINE
DUCTED STYLE
COMING SOON**

MK*B HIGH WALL SYSTEM & PRICING

COOLING ONLY – MKCB

HEAT PUMP – MKQB

Fixed Speed

14.0 SEER

8.2 HSPF

Sizes: 18 / 22 / 24 / 28 / 32

FEATURES:

- Cost Competitive
- Modes: Cool, Heat, Dry, Fan, Auto
- Auto louver mode
- Turbo Mode
- Sleep Mode
- Follow Me
- 46 Heating Mode (Heating Setback)
- Quiet Operation, as low as 44dB(A)
- Piping length 200 ft.
- Cooling operating range -20° ~ 125°F (-28° ~ 24°C)(w/low ambient kit)
- Heating operating range 17° ~ 75°F (-8° ~ 24°C)

CONTROLS:

Wireless Remote Controller included with indoor unit

Wired Remote Controller °F or °C (optional only on sizes 18-22)

See Page 49 for Complete Accessories Listing.



Controls kit is required; sold separately

LIGHT COMMERCIAL MK SERIES WALL MOUNT SINGLE-ZONE SYSTEMS

COOLING ONLY – FIXED SPEED SYSTEM

OUTDOOR MODEL NUMBER	INDOOR MODEL NUMBER	CONTROLS KIT	SEER	EER	OUTDOOR UNIT VOLT/PH @ 60HZ
24AHA418A003	40MKCB18B--3	KAAVC0101AAA	14	12.2	208/230-1
24AHA424A003	40MKCB22B--3	KAAVC0101AAA	14	12.2	208/230-1
24AHA430A003	40MKCB28B--3	KAAVC0101AAA	14	12.2	208/230-1
24AHA436A003	40MKCB32B--3	KAAVC0101AAA	14	12.2	208/230-1
24AHA436A005	40MKCB32B--3	KAAVC0101AAA	14	12.2	208/230-3
24AHA436A006	40MKCB32B--3	KAAVC0101AAA	14	12.2	460-3

HEAT PUMP – FIXED SPEED SYSTEM

OUTDOOR MODEL NUMBER	INDOOR MODEL NUMBER	CONTROLS KIT	SEER	EER	OUTDOOR UNIT VOLT/PH @ 60HZ
25HHA424A003	40MKQB24B--3	KHAVC0101AAA	14	12.0	208/230-1
25HHA430A003	40MKQB28B--3	KHAVC0101AAA	14	12.2	208/230-1

Controls Kit is required; ordered separately.

MK*B HIGH WALL SYSTEM SPECS

		COOLING ONLY					HEAT PUMP		
SYSTEM									
Size		18	22	28	32	32	32	24	28
Outdoor Model		24AHA418A003	24AHA424A003	24AHA430A003	24AHA436A003	24AHA436A005	24AHA436A006	25HHA424A003	25HHA430A003
Indoor Model		40MKCB18B--3	40MKCB22B--3	40MKCB28B--3	40MKCB32B--3	40MKCB32B--3	40MKCB32B--3	40MKQB24B--3	40MKQB28B--3
Energy Star		NO	NO	NO	NO	NO	NO	NO	NO
PERFORMANCE									
Cooling System Tons		1.5	1.8	2.3	2.7	2.7	2.7	1.9	2.3
Cooling Rated Capacity	Btu/h	18,000	21,600	28,000	32,000	32,000	32,000	22,800	27,600
SEER		14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
EER		12.2	12.2	12.2	12.2	12.2	12.2	12.0	12.2
Heating Rated Capacity	Btu/h	N/A	N/A	N/A	N/A	N/A	N/A	22,000	27,800
HSPF		N/A	N/A	N/A	N/A	N/A	N/A	8.2	8.2
COP	W/W	N/A	N/A	N/A	N/A	N/A	N/A	3.86	3.72
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 Outdoor DB Min - Max	°F	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)
Heating Outdoor DB Min - Max	°F	N/A	N/A	N/A	N/A	N/A	N/A	17~75	17~75
Cooling Indoor DB Min -Max	°F	64~90	64~90	64~90	64~90	64~90	64~90	64~90	64~90
Heating Indoor DB Min -Max	°F	N/A	N/A	N/A	N/A	N/A	N/A	32~80	32~81
PIPING									
Total Piping Length	Ft.	200'	200'	200'	200'	200'	200'	200'	200'
Drop (OD above ID)	Ft.	200'	200'	200'	200'	200'	200'	200'	200'
Lift (OD below ID)	Ft.	65'	65'	65'	65'	65'	65'	65'	65'
Outdoor Pipe Connection Size - Liquid	In.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Outdoor Pipe Connection Size - Suction	In.	5/8"	3/4"	3/4"	7/8"	7/8"	7/8"	3/4"	3/4"
Indoor Pipe Connection Size - Liquid	In.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Indoor Pipe Connection Size - Suction	In.	5/8"	3/4"	3/4"	7/8"	7/8"	7/8"	3/4"	3/4"
REFRIGERANT									
Type		R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Charge	Lb.	6.4	6.5	8.6	8.9	8.9	8.9	7.7	12.1
Design Pressure	PSIG	550	550	550	550	550	550	550	550
Metering Device Outdoor Unit		N/A	N/A	N/A	N/A	N/A	N/A	Type B Accurator	Type B Accurator
Metering Device Indoor Unit		Piston	Piston	Piston	Piston	Piston	Piston	Piston	Piston
OUTDOOR COIL									
Face Area	Sq. Ft.	7.3	7.3	12.1	12.1	12.1	12.1	7.3	12.1
No. Rows		2	2	2	2	2	2	2	2
Fins per inch		20	20	20	20	20	20	20	20
Circuits		3	3	3	3	3	3	3	6
INDOOR COIL									
Face Area (sq. ft.)	Sq. Ft.	3.9	3.9	4.7	4.7	4.7	4.7	4.7	4.7
No. Rows		2	2	3	3	3	3	3	3
Fins per inch		21	21	18	18	18	18	18	18
Circuits		6	6	9	9	9	9	9	9
COMPRESSOR									
Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Model		ZP16K6E-PFV-130	ZP20K6E-PFV-130	ZP25K5E-PFV-130	ZP29K5E-PFV-130	ZP29K5E-TF5-130	ZP29K5E-TFD-130	ZP21K5E-PFV-130	ZP24K5E-PFV-130
ELECTRICAL									
Outdoor Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-3-60	460-3-60	208/230-1-60	208/230-1-60
Indoor 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	208/230-1-60
Power Supply		Indoor and outdoor units have dedicated power supply							
MCA (Outdoor)	A.	11.8	14.1	18.3	18.3	12.5	7.6	16.5	17.2
MOCP - Fuse Rating (Outdoor)	A.	20	25	30	30	20	15	25	30
MCA (Indoor)	A.	1	1	1	1	1	1	1	1
MOCP - Fuse Rating (Indoor)	A.	15	15	15	15	15	15	15	15
OUTDOOR									
Unit Width	In.	36.9	36.9	44.5	44.5	44.5	44.5	36.9	44.5
Unit Height	In.	31.1	31.1	37.1	37.1	37.1	37.1	31.1	37.1
Unit Depth	In.	14.6	14.6	17.1	17.1	17.1	17.1	14.6	17.1
Net Weight	Lbs.	146.0	148.0	183.0	184.0	184.0	184.0	161.0	196.0
Airflow	CFM	1285	1285	1900	2615	2615	2615	1285	2615
INDOOR									
Unit Width	In.	46.7	46.7	57.1	57.1	57.1	57.1	57.1	57.1
Unit Height	In.	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
Unit Depth	In.	10.2	10.2	10.4	10.4	10.4	10.4	10.4	10.4
Net Weight	Lbs.	37.5	37.5	55.1	55.1	55.1	55.1	55.1	55.1
Number of Fan Speeds		4	4	4	4	4	4	4	4
Airflow (lowest to highest)	CFM	475/570/695/710	475/570/695/710	525/685/834/847	525/685/834/847	525/685/834/847	525/685/834/847	525/685/834/847	525/685/834/847
Sound Pressure (lowest to highest)	dB(A)	44/47/50/51	44/47/50/51	46/48/52/53	46/48/52/53	46/48/52/53	46/48/52/53	46/48/52/53	46/48/52/53
Air throw Data	Ft.	20	20	25	25	25	25	25	25

MK*C CASSETTE SYSTEM & PRICING

COOLING ONLY - MKC*C HEAT PUMP - MKQ*C

Fixed Speed Compressor

14.0 SEER

8.2 HSPF

Cooling Only Sizes: 18 / 24 / 30 / 34

Heat Pump Sizes: 24 / 30 / 34

FEATURES:

- Available in 208/230V and 460V
- Low ambient cooling down to -20° F with Low Ambient Kit
- Piping length 200 ft.
- Up to three-phase voltages
- Modes: Cool, Heat, Dry, Fan, Auto
- Built-in condensate pump
- Louver control (fixed or swing)
- Sleep Mode
- Follow Me (senses temperature at handheld remote)
- Heating Setback (46° F Heating Mode)
- Quiet indoor operation, as low as 39 dB(A)
- Cooling operating range -20° ~ 125° F (-28° ~ 52° C) (w/ Low Ambient Kit)
- Heating operating range 17° ~ 75° F (-8° ~ 24° C)

CONTROLS:

Wireless Remote Controller included with indoor unit

Optional Wired Remote Controller ° F or ° C (Timer Function)

See Page 49 for Complete Accessories Listing.



Performance
SERIES

LIGHT COMMERCIAL MK SERIES CASSETTE SINGLE ZONE SYSTEMS

COOLING ONLY – FIXED SPEED SYSTEM

OUTDOOR MODEL NUMBER	INDOOR MODEL NUMBER	GRILLE MODEL NUMBER	SYSTEM TONS	SYSTEM BTUH	OUTDOOR UNIT VOLT/PH @ 60HZ
24AHA418A003	40MKCB18C--3	40MK-B01C--3	1.4	17,100	208/230-1
24AHA424A003	40MKCB34C--3	40MK-B01C--3	2.0	23,800	208/230-1
24AHA430A003	40MKCB34C--3	40MK-B01C--3	2.5	30,000	208/230-1
24AHA436A003	40MKCB34C--3	40MK-B01C--3	2.9	34,200	208/230-1
24AHA436A005	40MKCB34C--3	40MK-B01C--3	2.9	34,200	208/230-3
24AHA436A006	40MKCB34C--3	40MK-B01C--3	2.9	34,200	460-3

HEAT PUMP – FIXED SPEED SYSTEM

OUTDOOR MODEL NUMBER	INDOOR MODEL NUMBER	GRILLE MODEL NUMBER	SYSTEM TONS	SYSTEM BTUH	OUTDOOR UNIT VOLT/PH @ 60HZ
25HHA424A003	40MKQB34C--3	40MK-B01C--3	2.0	23,400	208/230-1
25HHA430A003	40MKQB34C--3	40MK-B01C--3	2.4	28,400	208/230-1
25HHA436A003	40MKQB34C--3	40MK-B01C--3	2.7	32,600	208/230-1
25HHA436A005	40MKQB34C--3	40MK-B01C--3	2.7	32,600	208/230-3
25HHA436A006	40MKQB34C--3	40MK-B01C--3	2.7	32,600	460-3

Condensate Pump factory installed on indoor unit. Grille is required; ordered separately.

MK*C CASSETTE SYSTEM SPECS

MKC CASSETTE SYSTEM SPECS COOLING ONLY

SYSTEM							
Size		18	24	30	34	34	34
Outdoor Model		24AHA418A003	24AHA424A003	24AHA430A003	24AHA436A003	24AHA436A005	24AHA436A006
Indoor Model		40MKCB18C--3	40MKCB34C--3	40MKCB34C--3	40MKCB34C--3	40MKCB34C--3	40MKCB34C--3
Energy Star		NO	NO	NO	NO	NO	NO
PERFORMANCE							
Cooling Rated Capacity	Btu/h	17,100	23,800	30,000	34,200	34,200	34,200
SEER		14	14	14	14	14	14
EER		12.2	12.2	12.2	12.2	12.2	12.2
CONTROLS							
Wireless Remote Controller (°F / °C Convertible)		Standard	Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (°F / °C Convertible)		Optional	Optional	Optional	Optional	Optional	Optional
OPERATING RANGE							
Cooling Indoor DB Min -Max	° F (° C)	55~125 (-20° F with Low-Ambient Kit)					
Heating Indoor DB Min -Max	° F (° C)	64~90	64~90	64~90	64~90	64~90	64~90
PIPING							
Total Piping Line	ft.	200'	200'	200'	200'	200'	200'
Drop (OD above ID)	ft.	200'	200'	200'	200'	200'	200'
Lift (OD below ID)	ft.	65'	65'	65'	65'	65'	65'
Outdoor Pipe Connection Size - Liquid	in.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Outdoor Pipe Connection Size - Suction	in.	5/8"	3/4"	3/4"	7/8"	7/8"	7/8"
Indoor Pipe Connection Size - Liquid	in.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Indoor Pipe Connection Size - Suction	in.	5/8"	3/4"	3/4"	3/4"	3/4"	3/4"
ELECTRICAL							
Outdoor Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-3-60	460-3-60
Indoor 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
Power Supply		Indoor and outdoor units have dedicated power supply					
MCA (Outdoor)	A.	11.8	14.1	18.3	18.8	12.5	7.6
MOCP - Fuse Rating (Outdoor)	A.	20	25	30	30	20	15
MCA (Indoor)	A.	1	1	1	1	1	1
MOCP - Fuse Rating (Indoor)	A.	15	15	15	15	15	15
OUTDOOR							
Unit Width	in.	36.9	36.9	44.5	44.5	44.5	44.5
Unit Height	in.	31.1	31.1	37.1	37.1	37.1	37.1
Unit Depth	in.	14.6	14.6	17.1	17.1	17.1	17.1
Net Weight	lbs.	146	148	183	184	184	184
Airflow	cfm	1,285	1,285	1,900	2,615	2,615	2,615
INDOOR							
Unit Width	in.	33.1	33.1	33.1	33.1	33.1	33.1
Unit Height	in.	33.1	33.1	33.1	33.1	33.1	33.1
Unit Depth	in.	11.3	11.3	11.3	11.3	11.3	11.3
Net Weight Body	lbs.	54.0	68.6	68.6	68.6	68.6	68.6
Unit Width Grille	in.	37.4	37.4	37.4	37.4	37.4	37.4
Unit Height Grille	in.	37.4	37.4	37.4	37.4	37.4	37.4
Unit Depth Grille	in.	2.2	2.2	2.2	2.2	2.2	2.2
Net Weight Grille	lbs.	11.0	11.0	11.0	11.0	11.0	11.0
Number of Fan Speeds		3	3	3	3	3	3
Airflow (lowest to highest)	cfm	370/450/630	750/820/1130	750/820/1130	750/820/1130	750/820/1130	750/820/1130
Sound Pressure (lowest to highest)	dB(A)	39/43/47	44/48/53	44/48/53	44/48/53	44/48/53	44/48/53
Air throw Data	ft.	15	16	16	16	16	16

MK*C CASSETTE SYSTEM SPECS

MKC CASSETTE SYSTEM SPECS HEAT PUMP

SYSTEM						
Size		24	30	34	34	34
Outdoor Model		25HHA24A003	25HHA430A003	25HHA436A003	25HHA436A005	25HHA436A006
Indoor Model		40MKQB34C--3	40MKQB34C--3	40MKQB34C--3	40MKQB34C--3	40MKQB34C--3
Energy Star		NO	NO	NO	NO	NO
PERFORMANCE						
Cooling Rated Capacity	Btu/h	23,400	28,400	32,600	32,600	32,600
SEER		14	14	14	14	14
EER		11.2	12.2	12.2	12.2	12.2
Heating Rated Capacity	Btu/h	20,200	29,000	33,000	33,000	33,000
HSPF		8.2	8.2	8.2	8.2	8.2
COP	W/W	4.24	4.1	3.94	3.94	3.94
CONTROLS						
Wireless Remote Controller (°F / °C Convertible)		Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (°F / °C Convertible)		Optional	Optional	Optional	Optional	Optional
OPERATING RANGE						
Cooling Outdoor DB Min -Max	° F			55~125 (-20° F with Low-Ambient Kit)		
Heating Outdoor DB Min -Max	° F	17~75	17~75	17~75	17~75	
Cooling Indoor DB Min -Max	° F	64~90	64~90	64~90	64~90	
Heating Indoor DB Min -Max	° F	32~80	32~80	32~80	32~80	
PIPING						
Total Piping Line	ft.	200'	200'	200'	200'	200'
Drop (OD above ID)	ft.	200'	200'	200'	200'	200'
Lift (OD below ID)	ft.	65'	65'	65'	65'	65'
Outdoor Pipe Connection Size - Liquid	in.	3/8"	3/8"	3/8"	3/8"	3/8"
Outdoor Pipe Connection Size - Suction	in.	3/4"	3/4"	7/8"	7/8"	7/8"
Indoor Pipe Connection Size - Liquid	in.	3/8"	3/8"	3/8"	3/8"	3/8"
Indoor Pipe Connection Size - Suction	in.	3/4"	3/4"	3/4"	3/4"	3/4"
ELECTRICAL						
Outdoor Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-3-60	460-3-60
Indoor 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
Power Supply		Indoor and outdoor units have dedicated power supply				
MCA (Outdoor)	A.	11.8	14.1	18.3	18.8	12.5
MOCP - Fuse Rating (Outdoor)	A.	20	25	30	30	20
MCA (Indoor)	A.	1	1	1	1	1
MOCP - Fuse Rating (Indoor)	A.	15	15	15	15	15
OUTDOOR						
Unit Width	in.	36.9	44.5	44.5	44.5	44.5
Unit Height	in.	31.1	37.1	37.1	37.1	37.1
Unit Depth	in.	14.6	17.1	17.1	17.1	17.1
Net Weight	lbs.	161	196	197	197	197
Airflow	cfm	1,285	2,615	2,615	2,614	2,615
INDOOR						
Unit Width	in.	33.1	33.1	33.1	33.1	33.1
Unit Height	in.	33.1	33.1	33.1	33.1	33.1
Unit Depth	in.	11.3	11.3	11.3	11.3	11.3
Net Weight Body	lbs.	68.6	68.6	68.6	68.6	68.6
Unit Width Grille	in.	37.4	37.4	37.4	37.4	37.4
Unit Height Grille	in.	37.4	37.4	37.4	37.4	37.4
Unit Depth Grille	in.	2.2	2.2	2.2	2.2	2.2
Net Weight Grille	lbs.	11.0	11.0	11.0	11.0	11.0
Number of Fan Speeds		3	3	3	3	3
Airflow (lowest to highest)	cfm	750/820/1130	750/820/1130	750/820/1130	750/820/1130	750/820/1130
Sound Pressure (lowest to highest)	dB(A)	44/48/53	44/48/53	44/48/53	44/48/53	44/48/53
Air throw Data	ft.	16	16	16	16	16

MK*F UNDERCEILING SYSTEM & PRICING

COOLING ONLY - MKC*F HEAT PUMP - MKQ*F

Fixed Speed Compressor
14.0 SEER
8.2 HSPF
Cooling Only Sizes: 18 / 24 / 30 / 34 / 48 / 54
Heat Pump Sizes: 30 / 36 / 48

FEATURES:

- Available in 208/230V and 460V
- Low ambient cooling down to -20° F with Low Ambient Kit
- Piping length 200 ft.
- Modes: Cool, Heat, Dry, Fan, Auto
- Convertible: Underceiling – Floor Console
- Fresh air connection
- Auto-restart function
- Heating Setback (46° F Heating Mode)
- Quiet indoor operation, as low as 42 dB(A)
- Cooling operating range -20° ~ 125° F (-28° ~ 52° C) (w/Low Ambient Kit)
- Heating operating range 17° ~ 75° F (-8° ~ 24° C)

CONTROLS:

- Wireless Remote Controller included with indoor unit
- Optional Wired Remote Controller ° F or ° C (Timer Function)

See Page 49 for Complete Accessories Listing.



LIGHT COMMERCIAL MKF SERIES UNDERCEILING/ CONSOLE SINGLE ZONE SYSTEMS

COOLING ONLY – FIXED SPEED SYSTEM

INDOOR MODEL NUMBER	OUTDOOR MODEL NUMBER	SYSTEM TONS	SYSTEM BTUH	VOLT-PH @ 60HZ	SEER	EER	HSPF
40MKCB18F--3	24AHA418A003	1.4	17,100	208/230-1	14	12.2	
40MKCB34F--3	24AHA424A003	2.0	24,000	208/230-1	14	12.2	
40MKCB34F--3	24AHA430A003	2.4	28,600	208/230-1	14	12.2	
40MKCB34F--3	24AHA436A003	2.8	33,200	208/230-1	14	12.2	
40MKCB34F--3	24AHA436A005	2.8	33,200	208/230-3	14	12.2	
40MKCB34F--3	24AHA436A006	2.8	33,200	460-3	14	12.2	
40MKCB54F--3	24AHA448A003	3.8	46,000	208/230-1	14	12.2	
40MKCB54F--3	24AHA448A005	3.8	46,000	208/230-3	14	12.2	
40MKCB54F--3	24AHA448A006	3.8	46,000	460-3	14	12.2	
40MKCB54F--3	24AHA460A003	4.4	53,000	208/230-1	14	11.7	
40MKCB54F--3	24AHA460A005	4.4	53,000	208/230-3	14	11.7	
40MKCB54F--3	24AHA460A006	4.4	53,000	460-3	14	11.7	

HEAT PUMP – FIXED SPEED SYSTEM

INDOOR MODEL NUMBER	OUTDOOR MODEL NUMBER	SYSTEM TONS	SYSTEM BTUH	VOLT-PH @ 60HZ	SEER	EER	HSPF
40MKQB36F--3	25HHA430A003	2.4	29,000	208/230-1	14	11.5	8.2
40MKQB36F--3	25HHA436A003	2.9	34,200	208/230-1	14	11.0	8.2
40MKQB36F--3	25HHA436A005	2.9	34,200	208/230-3	14	11.0	8.2
40MKQB36F--3	25HHA436A006	2.9	34,200	460-3	14	11.0	8.2
40MKQB48F--3	25HHA448A003	3.9	46,400	208/230-1	14	11.7	8.2
40MKQB48F--3	25HHA448A005	3.9	46,400	208/230-3	14	11.7	8.2
40MKQB48F--3	25HHA448A006	3.9	46,400	460-3	14	11.7	8.2

MK*F UNDERCEILING SYSTEM SPECS

COOLING ONLY

SYSTEM

Size	18	24	30	34	34
Outdoor Model	24AHA418A003	24AHA424A003	24AHA430A003	24AHA436A003	24AHA436A005
Indoor Model	40MKCB18F--3	40MKCB34F--3	40MKCB34F--3	40MKCB34F--3	40MKCB34F--3
Energy Star	NO	NO	NO	NO	NO

PERFORMANCE

Cooling System Tons	1.4	2.0	2.4	2.8	2.8
Cooling Rated Capacity	Btu/h 17,100	24,000	28,600	33,200	33,200
SEER	14	14	14	14	14
EER	12.2	12.2	12.2	12.2	12.2

CONTROLS

Wireless Remote Controller (°F/°C Convertible)	Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)	Optional	Optional	Optional	Optional	Optional
Cooling Indoor DB Min -Max	°F 64~90	64~90	64~90	64~90	64~90
Heating Indoor DB Min -Max	°F N/A	N/A	N/A	N/A	N/A

OPERATING RANGE

Cooling Outdoor DB Min - Max	°F 55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)
Cooling Indoor DB Min -Max	°F 64~90	64~90	64~90	64~90	64~90

PIPING

Total Piping Length	Ft. 200'	200'	200'	200'	200'
Drop (OD above ID)	Ft. 200'	200'	200'	200'	200'
Lift (OD below ID)	Ft. 65'	65'	65'	65'	65'
Outdoor Pipe Connection Size - Liquid	In. 3/8"	3/8"	3/8"	3/8"	3/8"
Outdoor Pipe Connection Size - Suction	In. 5/8"	3/4"	3/4"	7/8"	7/8"
Indoor Pipe Connection Size - Liquid	In. 3/8"	3/8"	3/8"	3/8"	3/8"
Indoor Pipe Connection Size - Suction	In. 5/8"	3/4"	3/4"	3/4"	3/4"

REFRIGERANT

Type	R-410A	R-410A	R-410A	R-410A	R-410A
Charge	Lb. 6.4	6.5	8.6	8.9	8.9
Design Pressure	PSIG 550	550	550	550	550
Metering Device Outdoor Unit	N/A	N/A	N/A	N/A	N/A
Metering Device Indoor Unit	TXV	TXV	TXV	TXV	TXV

OUTDOOR COIL

Face Area	Sq. Ft. 7.3	7.3	12.1	12.1	12.1
No. Rows	2	2	2	2	2
Fins per inch	20	20	20	20	20
Circuits	3	3	3	3	3

INDOOR COIL

Face Area (sq. ft.)	Sq. Ft. 2.5	4.1	4.1	4.1	4.1
No. Rows	3	3	3	3	3
Fins per inch	19	19	19	19	19
Circuits	7	8	8	8	8

COMPRESSOR

Type	Scroll	Scroll	Scroll	Scroll	Scroll
------	--------	--------	--------	--------	--------

ELECTRICAL

Outdoor Voltage, Phase, Cycle	V/Ph/Hz 208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-3-60
Indoor 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
Power Supply	Indoor and outdoor units have dedicated power supply				
MCA (Outdoor)	A. 11.8	14.1	18.3	18.8	12.5
MOCP - Fuse Rating (Outdoor)	A. 20	25	30	30	20
MCA (Indoor)	A. 3	3	3	3	3
MOCP - Fuse Rating (Indoor)	A. 15	15	15	15	15

OUTDOOR

Unit Width	In. 36.9	36.9	44.5	44.5	44.5
Unit Height	In. 31.1	31.1	37.1	37.1	37.1
Unit Depth	In. 14.6	14.6	17.1	17.1	17.1
Net Weight	Lbs. 146	148	183	184	184
Airflow	CFM 1,285	1,285	1,900	2,615	2,615

INDOOR

Unit Width	In. 42.0	65.0	65.0	65.0	65.0
Unit Height	In. 9.3	9.3	9.3	9.3	9.3
Unit Depth	In. 26.6	26.6	26.6	26.6	26.6
Net Weight	Lbs. 59.7	91.9	91.9	91.9	91.9
Number of Fan Speeds	3	3	3	3	3
Airflow (lowest to highest)	CFM 405/515/695	975/1335/1130	975/1335/1130	975/1335/1130	975/1335/1130
Sound Pressure (lowest to highest)	dB(A) 42/48/53	50/52/55	50/52/55	50/52/55	50/52/55
Air throw Data	Ft. 26	29	29	29	29

MK*F UNDERCEILING SYSTEM SPECS

COOLING ONLY

34	48	48	48	54	54	54
24AHA436A006	24AHA448A003	24AHA448A005	24AHA448A006	24AHA460A003	24AHA460A005	24AHA460A006
40MKCB34F--3	40MKCB54F--3	40MKCB54F--3	40MKCB54F--3	40MKCB54F--3	40MKCB54F--3	40MKCB54F--3
NO	NO	NO	NO	NO	NO	NO
2.8	3.8	3.8	3.8	4.4	4.4	4.4
33,200	46,000	46,000	46,000	53,000	53,000	53,000
14	14	14	14	14	14	14
12.2	12.2	12.2	12.2	11.7	11.7	11.7
Standard	Standard	Standard	Standard	Standard	Standard	Standard
Optional	Optional	Optional	Optional	Optional	Optional	Optional
64~90	64~90	64~90				
N/A	32~80	32~81				
55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)
64~90	64~90	64~90	64~90	64~90	64~90	64~90
200'	200'	200'	200'	200'	200'	200'
200'	200'	200'	200'	200'	200'	200'
65'	65'	65'	65'	65'	65'	65'
3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
7/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"
3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
8.9	9	9	9	10.6	10.6	10.6
550	550	550	550	550	550	550
N/A	N/A	N/A	N/A	N/A	N/A	N/A
TXV	TXV	TXV	TXV	TXV	TXV	TXV
12.1	12.1	12.1	12.1	14.1	14.1	14.1
2	2	2	2	2	2	2
20	20	20	20	20	20	20
3	3	3	3	4	4	4
4.1	4.35	4.35	4.35	4.35	4.35	4.35
3	4	4	4	4	4	4
19	19	19	19	19	19	19
8	6	6	6	6	6	6
Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
460-3-60	208/230-1-60	208/230-3-60	460-3-60	208/230-1-60	208/230-3-60	460-3-60
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
7.6	24.3	18.3	8.4	31.1	21.4	9.7
15	40	30	15	50	35	15
3	3	3	3	3	3	3
15	15	15	15	15	15	15
44.5	44.5	44.5	44.5	44.5	44.5	44.5
37.1	37.1	37.1	37.1	43.1	43.1	43.1
17.1	17.1	17.1	17.1	17.1	17.1	17.1
184	213	213	213	245	245	245
2,615	2,615	2,615	2,615	2,785	2,785	2,785
65.0	65.0	65.0	65.0	65.0	65.0	65.0
9.3	9.3	9.3	9.3	9.3	9.3	9.3
26.6	26.6	26.6	26.6	26.6	26.6	26.6
91.9	98.8	98.8	98.8	98.8	98.8	98.8
3	3	3	3	3	3	3
975/1335/1130	1310/1400/1470	1310/1400/1470	1310/1400/1470	1310/1400/1470	1310/1400/1470	1310/1400/1470
50/52/55	55/57/59	55/57/59	55/57/59	55/57/59	55/57/59	55/57/59
29	29	29	29	29	29	29

MK*F UNDERCEILING SYSTEM SPECS

HEAT PUMP

SYSTEM								
Size		30	36	36	36	48	48	48
Outdoor Model		25HHA430A003	25HHA436A003	25HHA436A005	25HHA436A006	25HHA448A003	25HHA448A005	25HHA448A006
Indoor Model		40MKQB36F--3	40MKQB36F--3	40MKQB36F--3	40MKQB36F--3	40MKQB48F--3	40MKQB48F--3	40MKQB48F--3
Energy Star		NO	NO	NO	NO	NO	NO	NO

PERFORMANCE								
Cooling System Tons		2.4	2.9	2.9	2.9	3.9	3.9	3.9
Cooling Rated Capacity	Btu/h	29,000	34,200	34,200	34,200	46,400	46,400	46,400
SEER		14	14	14	14	14	14	14
EER		11.5	11	11	11	11.7	11.7	11.7
Heating Rated Capacity	Btu/h	29,000	34,200	34,200	34,200	46,400	46,400	46,400
HSPF		8.2	8.2	8.2	8.2	8.2	8.2	8.2
COP	W/W	4.1	4.1	4.1	4.1	3.8	3.8	3.8
HSPF		10.8	10.3	10.3	11.0	11.0		
COP	W/W	2.4	2.3	2.3	2.3	2.8		

CONTROLS								
Wireless Remote Controller (°F/°C Convertible)		Standard	Standard	Standard	Standard	Standard	Standard	Standard
Wired Remote Controller (°F/°C Convertible)		Optional	Optional	Optional	Optional	Optional	Optional	Optional

OPERATING RANGE								
Cooling Outdoor DB Min - Max	°F	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)	55~125 (-20°F w / Low-Ambient Kit)
Heating Outdoor DB Min - Max	°F	17~75	17~75	17~75	17~75	17~75	17~75	17~75
Cooling Indoor DB Min -Max	°F	64~90	64~90	64~90	64~90	64~90	64~90	64~90
Heating Indoor DB Min -Max	°F	32~80	32~80	32~80	32~80	32~80	32~80	32~80
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)
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)

PIPING								
Total Piping Length	Ft.	200'	200'	200'	200'	200'	200'	200'
Drop (OD above ID)	Ft.	200'	200'	200'	200'	200'	200'	200'
Lift (OD below ID)	Ft.	65'	65'	65'	65'	65'	65'	65'
Outdoor Pipe Connection Size - Liquid	In.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Outdoor Pipe Connection Size - Suction	In.	3/4"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Indoor Pipe Connection Size - Liquid	In.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Indoor Pipe Connection Size - Suction	In.	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

REFRIGERANT								
Type		R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
Design Pressure	PSIG	550	550	550	550	550	550	550
Metering Device Outdoor Unit		Type B Accurator	Type B Accurator	Type B Accurator	Type B Accurator	Type B Accurator	Type B Accurator	Type B Accurator
Metering Device Indoor Unit		TXV	TXV	TXV	TXV	TXV	TXV	TXV
Charge	Lb.	12.1	12.3	12.3	12.3	10.95	10.95	10.95

OUTDOOR COIL								
Face Area	Sq. Ft.	12.1	12.1	12.1	12.1	14.1	14.1	14.1
No. Rows		2	2	2	2	2	2	2
Fins per inch		20	20	20	20	20	20	20
Circuits		6	5	5	5	6	6	6

Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Model		ZP24K5E-PFV-130	ZP-29K5E-PFV-130	ZP29K5E-TF5-130	ZP29K5E-TFD-130	ZP42K5E-PFV-130	ZP42K5E-TF5-130	ZP42K5E-TFD-130

ELECTRICAL								
Outdoor Voltage, Phase, Cycle	V/Ph/Hz	208/230-1-60	208/230-1-60	208/230-3-60	460-3-60	208/230-1-60	208/230-3-60	460-3-60
Indoor 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 and outdoor units have dedicated power supply						
MCA (Outdoor)	A.	17.2	19	12.8	7.6	28.8	18.6	8.6
MOCP - Fuse Rating (Outdoor)	A.	30	30	20	15	50	30	15
MCA (Indoor)	A.	3	3	3	3	3	3	3
MOCP - Fuse Rating (Indoor)	A.	15	15	15	15	15	15	15

OUTDOOR								
Unit Width	In.	44.5	44.5	44.5	44.5	44.5	44.5	44.5
Unit Height	In.	37.1	37.1	37.1	37.1	43.1	43.1	43.1
Unit Depth	In.	17.1	17.1	17.1	17.1	17.1	17.1	17.1
Net Weight	Lbs.	196	197	197	197	246	246	246
Airflow	CFM	2,615	2,615	2,615	2,615	2,785	2,785	2,785

INDOOR								
Unit Width	In.	65.0	65.0	65.0	65.0	65.0	65.0	65.0
Unit Height	In.	9.3	9.3	9.3	9.3	9.3	9.3	9.3
Unit Depth	In.	26.6	26.6	26.6	26.6	26.6	26.6	26.6
Net Weight	Lbs.	98.8	98.8	98.8	98.8	98.8	98.8	98.8
Number of Fan Speeds		3	3	3	3	3	3	3
Airflow (lowest to highest)	CFM	1310/1400/1470	1310/1400/1470	1310/1400/1470	1310/1400/1470	1310/1400/1470	1310/1400/1470	1310/1400/1470
Sound Pressure (lowest to highest)	dB(A)	55/57/59	55/57/59	55/57/59	55/57/59	55/57/59	55/57/59	55/57/59
Air throw Data	Ft.	29	29	29	29	29	29	29

MK SERIES ACCESSORIES

MK SERIES LOW AMBIENT (-20) APPLICATION GUIDE

COOLING ONLY

MODEL NUMBER	LOW AMBIENT CONTROL	CRANKCASE HEATER	WINTER START KIT	ISOLATION REPLAY	HARD START KIT	WIND BAFFLE
24AHA418A003						
24AHA424A003						53DS-900---087
24AHA430A003	KSALA0801AAA	KAACH1401AAA			KSAS1501AAA	
24AHA436A003						
24AHA436A005					Not Required	
24AHA436A006	KSALA0901AAA	KAACH1501AAA	KAWS0101AAA	Not Required		53DS-900---071
24AHA448A003	KSALA0801AAA	KAACH1201AAA			KSAS1501AAA	
24AHA448A005					Not Required	
24AHA448A006	KSALA0901AAA	KAACH1901AAA				
24AHA460A003		KAACH1201AAA			KSAS1501AAA	
24AHA460A005	KSALA0801AAA	KAACH1201AAA				53DS-900---088
24AHA460A006	KSALA0901AAA	KAACH1901AAA			Not Required	

HEAT PUMP

MODEL NUMBER	LOW AMBIENT CONTROL	CRANKCASE HEATER	WINTER START KIT	ISOLATION REPLAY	HARD START KIT	WIND BAFFLE
25HHA424A003		KAACH1701AAA				53DS-900---087
25HHA430A003					KSAS1501AAA	
25HHA436A003	KSALA0801AAA					
25HHA436A005		STD				53DS-900---071
25HHA436A006	KSALA0901AAA		Not Required	KHAIR0201AAA	Not Required	
25HHA448A003					KSAS1501AAA	
25HHA448A005	KSALA0801AAA	KAACH1601AAA				53DS-900---088
25HHA448A006	KSALA0901AAA	KAACH1901AAA			Not Required	

ACCESSORIES

MODEL	DESCRIPTION
KSALA0801AAA	Low Ambient Control
KSALA0901AAA	Low Ambient Control
KAACH1401AAA	Crankcase Heater
KAACH1501AAA	Crankcase Heater
KAACH1201AAA	Crankcase Heater
KAACH1901AAA	Crankcase Heater
KAACH1701AAA	Crankcase Heater
KAACH1601AAA	Crankcase Heater
KAWS0101AAA	Winter Start Kit
KHAIR0201AAA	Isolation Relay
KSAS1501AAA	Hard Start Kit (As Required)
53DS-900---087	Wind Baffle
53DS-900---071	Wind Baffle
53DS-900---088	Wind Baffle
53DS-900---075	Wind Baffle
53DS-900---076	Wind Baffle
53DS-900---077	Wind Baffle
53DS-900---078	Wind Baffle
KAALP0401PUR	Accessory Kit
KAALS0201LLS	Liquid Line Solenoid
KHALS0401LLS	Liquid Tube Solenoid

VRF 3 - PIPE



Heat Pump
6 – 38 Tons
208/230 and 460V



Heat Recovery
6 – 38 Tons
208/230 and 460V



Single phase Heat Recovery
6 – 12 Tons
208/230V, 1-phase



4-Way Cassette



Compact 4-Way Cassette



Underceiling



High Wall



Outside Air



Floor Console - Recessed



Floor Console - Exposed



High Static Duct



Concealed Duct



Slim Duct



Vertical AHU

TOSHIBA CARRIER VRF ADVANTAGES

Toshiba Carrier VRF is easy to design, install, operate and maintain. The entire system can be managed from a central location or monitored remotely – perfect for a sprawling campus or a building with a range of heating and cooling needs. Timely alerts aid in maintaining the system and keeping it running smoothly.

A single outdoor VRF system can operate up to 64 independent indoor units, depending on the system. This provides superior zoning because the refrigerant flow varies from location to location, delivering only the necessary capacity to each and every zone. VRF systems are available up to 38 tons in heat recovery and heat pump.

FEATURES AND BENEFITS:

- Simultaneous heating and cooling allow you to heat and cool different rooms at the same time which minimizes energy loss and improves climate control.
- The first manufacturer to offer a Single-phase VRF heat recovery system, which seamlessly integrates with the three-phase VRF systems.
- Compact equipment means a smaller footprint. No dedicated maintenance rooms or service shafts required.
- Layout can be easily reconfigured as building needs change.
- Longer pipe lengths and enhanced for integration with other Carrier systems and enhanced BMS controls.
- Unmatched Carrier support. Get the full experience and expertise of the Carrier support team behind you.

VRF 2 - PIPE

VRF Heat Recovery System



38VMR HEAT RECOVERY

72,000 to 336,000 Btuh

6.0 to 28.0 Tons

The Carrier 38VMR VRF 2-pipe heat recovery system is a combination of an outdoor unit with multiple style indoor units connected by refrigerant piping and wiring. Heat recovery outdoor unit lineup is a single module up to 28 tons, available as small and medium cabinet size.

VRF Heat Pump System



38VMH HEAT PUMP

72,000 to 432,000 Btuh

6.0 to 36.0 Tons

The Carrier 38VMH VRF heat pump system is a combination of an outdoor unit with multiple style indoor units connected by refrigerant piping and wiring. Heat pump capacity ranges from 6 tons up to 36 tons in a modular design, available as single, double or triple module.



CARRIER VRF ADVANTAGES

Suitable to precisely match the building's cooling and heating demands, Carrier® VRF systems utilize a 2-pipe system for both heat recovery and heat pump. A single outdoor VRF condenser can power up to 64 independent indoor units, depending on the system. This provides superior zoning because the refrigerant flow can vary from location to location, delivering only the necessary capacity to each zone. The system adjusts the flow of refrigerant to each indoor unit based on its operating conditions.



FEATURES AND BENEFITS:

- The Carrier VRF heat recovery 20-ton system is 40% smaller compared to other VRF outdoor units in the marketplace.
- The cooling IEER is 24.7, and heating SCHE is up to 30.0.
- High Heating Performance provides heating down to -13 degrees F with up to 70% of the rated heating capacity.
- Reduces heat loss due to unnecessary defrost operation and maintains indoor heating consistency by using hot gas through the bottom of coil in the outdoor unit.

OTHER FEATURES INCLUDE:

- Advanced Silent Technology with Fan Blade Design
- High Performance Heat Exchanger
- Smaller Footprints and longer pipe lengths
- Reduced piping connections
- Hinged electrical and Control design
- No dip switches or rotary dials
- And so much more to enhance your sales and installation.



SEE GREEN

Cash paid for the return of
recovered Refrigerant (R-22)

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Ask your CE Northeast representative for more
details about earning your reward.

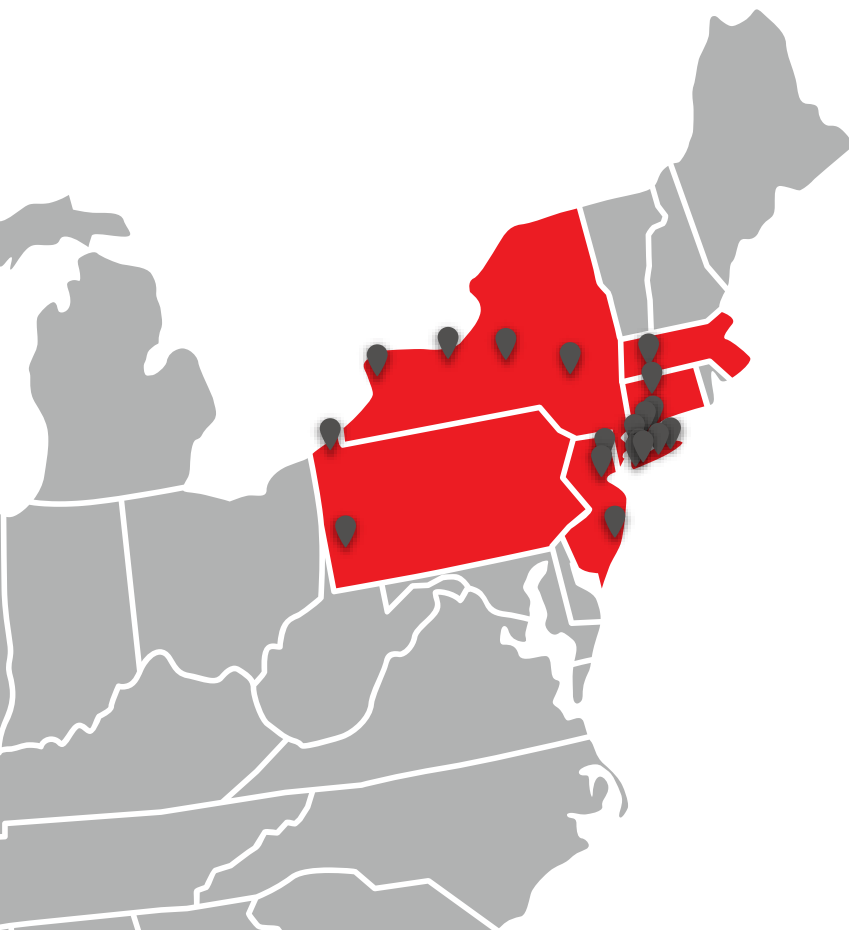




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