

ANY ROOM,  
**ANY SEAS<sup>o</sup>N**

**Single-Zone Efficiencies** up to: 33 SEER / 14.2 HSPF

**Multi-Zone Efficiencies** up to: 19.7 SEER / 10.3 HSPF



**A Year-Round Solution**

Revolutionary mini-split heat pumps provide both heating and cooling for year-round comfort in most climates. A simple push of a button on the remote control allows you to switch from heating to cooling (or vice versa) automatically.



Savings  
up to  
**25%\***  
on utility bills

\*Savings may vary based on model selected, hours of operation and geographical location. Example given based on 33-SEER system versus 14-SEER system.



The new degree of comfort.®

# QUIETLY REVOLUTIONIZING ENERGY-EFFICIENT HOME COMFORT

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# YEAR-ROUND, WHOLE-HOME OR BUSINESS ENERGY EFFICIENT HEATING AND COOLING

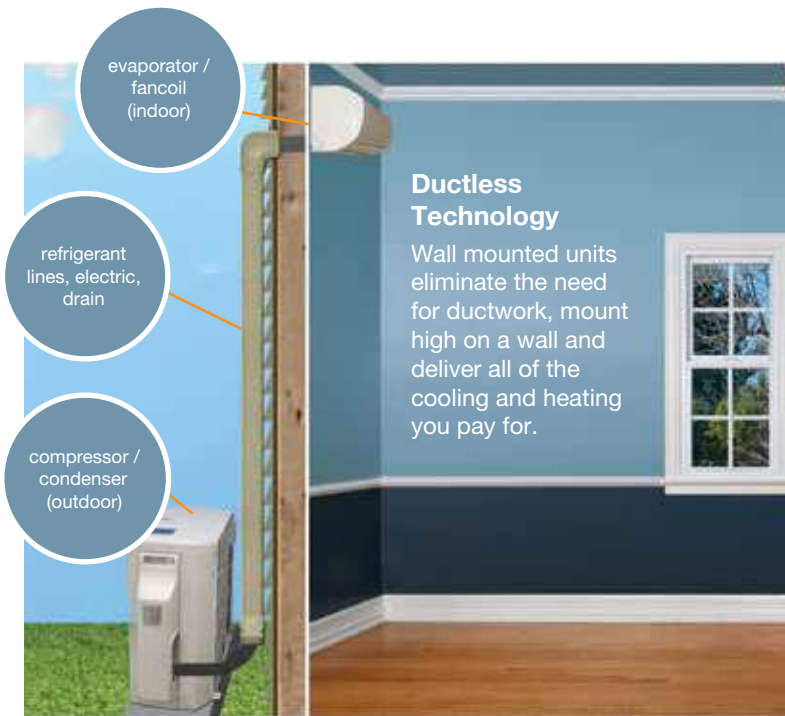
## WHAT IS A MINI-SPLIT?

Mini-Splits are ductless systems that eliminate the need for a basement or attic-located evaporator unit and ductwork by using thin copper tubing that pumps refrigerant directly to discreet wall mounted units inside. Even more remarkable, this same unit works in reverse in winter, absorbing heat from the outside air and moving it indoors to heat your home. The result? Efficient cooling and heating for year-round, whole-home comfort in most climates.

Available in numerous mix-and-match capacities, Rheem offers a mini-split system for even the most difficult to heat and cool areas.

## HOW DOES A MINI-SPLIT WORK?

Like your refrigerator, heat pumps use electricity to pump refrigerant and transfer heat from one space to another. Heat pumps transfer heat from the outdoors to within the home.



# INDIVIDUAL ZONING: PERSONALIZED WHOLE HOME COMFORT

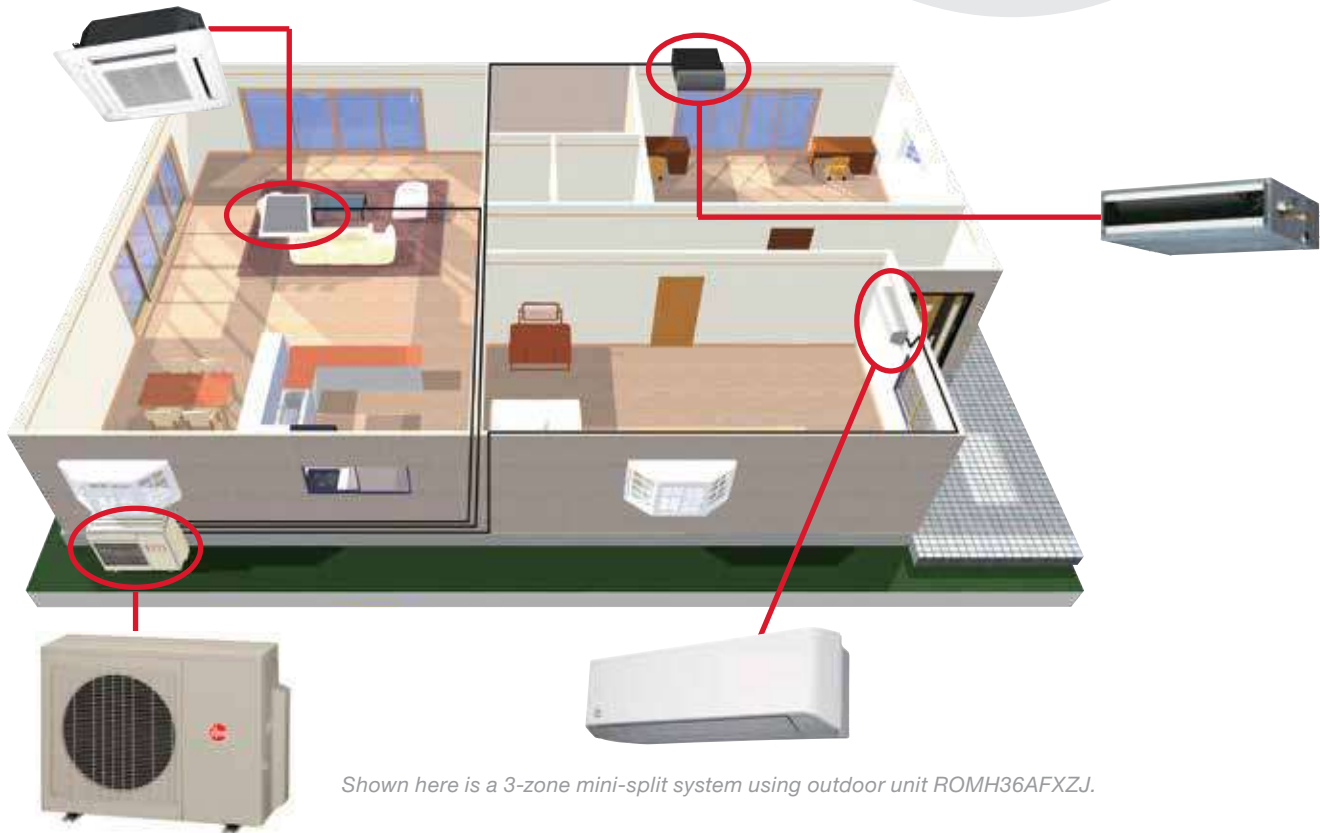
**MULTI**  
18, 24, 36,  
45,000 BTUs

Ductless Heat Pump Mini-Split systems are some of today's most advanced forms of heating and cooling. One outdoor unit can operate up to 5 indoor units, simultaneously providing just the right amount of comfort control to each zone. Rheem® systems are super quiet as well as highly energy efficient.

- Each indoor unit can:
- Operate independently via remote control
  - Supply both heating and cooling (not simultaneously)
  - Provide high energy efficiencies
  - Operate quietly

## WALL MOUNTED

The Mini-Split Indoor Unit mounts high on a wall, out of sight and does not require ductwork, increasing energy efficiency.





**SLIM DUCT**

Mounted in a ceiling or in a framed enclosure below a ceiling. They use minimal ductwork and remain very energy efficient.

- Concealed and out of sight
- Look of central air with the efficiency of a mini-split
- Less ducts = higher efficiency

**FLOOR MOUNTED**

Floor mount systems are ideal for residential radiator replacements or any room with limited upper wall space, like a kitchen or sunroom.

- Compact size fits easily under a standard window
- Features twin airflow for improved heat delivery and help those cold feet
- Designer wireless remote control



**COMPACT CASSETTE**

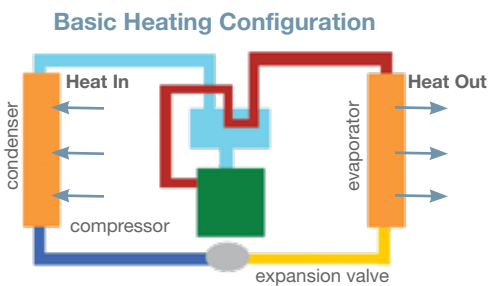
Cassettes are extremely discreet, with only the grille showing in the ceiling. They use the latest fan technology to distribute the conditioned air evenly.

- Wired remote control (wireless is optional)
- Powerful turbo fan operation
- Fits into a standard 2' x 2' ceiling grid



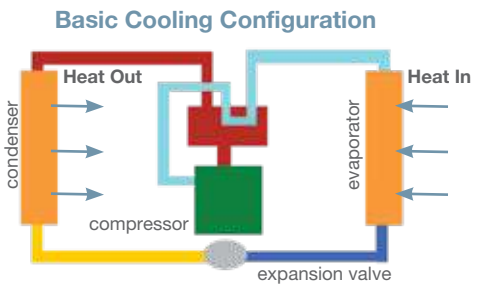
**HEAT PUMPS PROVIDE HEAT WHEN IT'S CHILLY**

Because refrigerant is naturally much colder than outdoor temperatures even on a very cold day, it actually absorbs heat from outdoors, and transfers the heat to within your home. The refrigerant's physical properties do this naturally. What you provide is the electricity to pump refrigerant via refrigerant lines from outdoors to indoors. Because it moves heat rather than creating it, it can deliver up to 4 times the heat for the energy consumed.

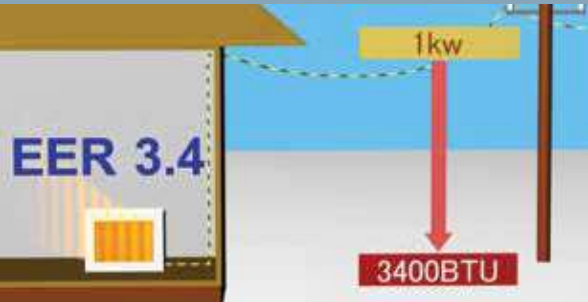


**HEAT PUMPS PROVIDE COOLING WHEN IT'S WARM**

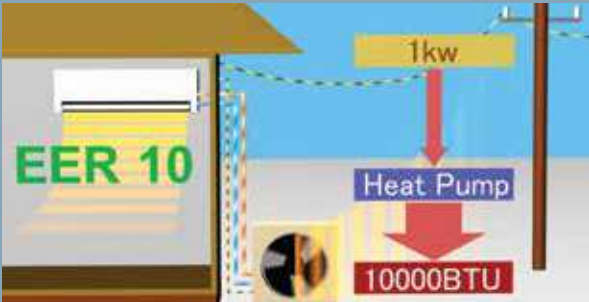
Come spring and summer, simply reverse the process by putting the same system into "cooling mode" to transfer heat from indoors to the outside.



**ELECTRIC HEATERS VS. HEAT PUMPS**



An electric heater converts electricity directly to heat, assuming that the heat loss is zero, the output from one kilowatt input is one kilowatt or 3,400 BTU/HR and the EER is 3.4.



Heat pumps are more efficient than some other forms of heating because they do not actually create heat—they just move it from one place to another. For example, the output of an efficient 10 EER heat pump is triple that of an electric heater at 10,000 BTU/HR.

\*EER (Energy Efficiency Rating) = Rated BTU/HR capacity divided by total kW input.





# A SOLUTION FOR ALL OF YOUR COMFORT NEEDS

## DUCTLESS TECHNOLOGY

Rheem® Mini-Split systems offer a convenient alternative in areas of the home where traditional duct systems may not be an option—such as attics, home additions, basements or crawlspaces. Since mini-splits have no ducting, they set up quickly, install easily and won’t take up closet or attic space. Used in conjunction with a new Rheem HVAC system, our high-efficiency ductless systems make it easy for you to keep spaces more comfortable and energy consumption low, while saving big on utility costs.

## WHOLE HOME OR BUSINESS COMFORT

Rheem ductless mini-split systems provide home and business owners just the right amount of heating and cooling needed by installing 1 to 5 indoor units connected to one outdoor unit. Indoor units vary by size and each creates its own “zone” of comfort, allowing you to heat or cool individual rooms, hallways and open spaces.

## A YEAR-ROUND SOLUTION

Revolutionary heat pumps provide both heating and cooling for year round comfort in most climates. A simple push of a button on the remote control allows you to switch from heating to cooling (or vice versa) automatically.



### Whole Home Comfort

Multi-zone systems provide homeowners just the right amount of heating and cooling needed by installing 2 to 5 indoor units connected to one outdoor unit. Indoor units vary by size and each creates its own “zone” of comfort, allowing the heating or cooling of individual rooms, hallways and open spaces.

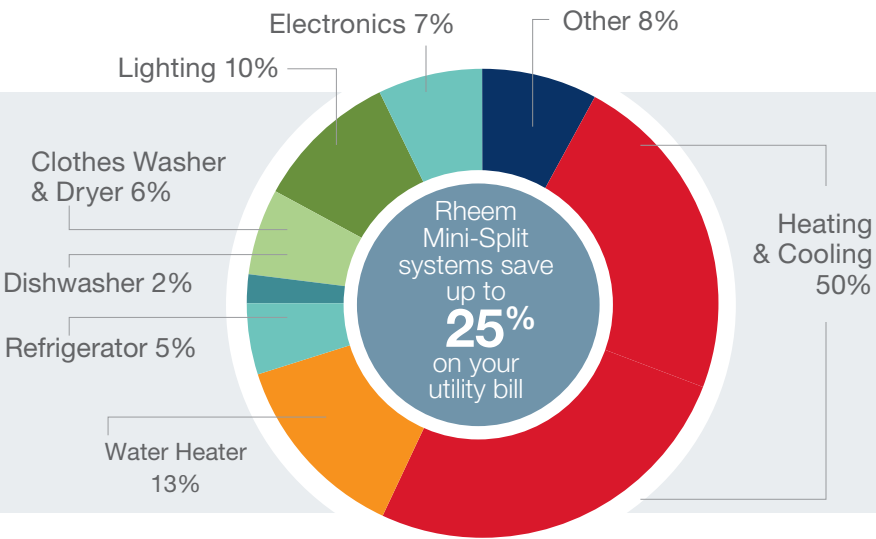
# ENERGY EFFICIENT: THE SMART CHOICE IN COMFORT

Heating and cooling consume as much as half of the energy used in your home. So, making smart decisions about your home’s heating and cooling system can have a big effect on your utility bills—and your comfort.

## WHERE DOES MY MONEY GO?

The high energy efficiencies of ductless mini-split systems slash utility bills by up to 25%. If your average annual utilities are \$4,200, Rheem® can save you up to \$1,050 annually or \$10,500 over 10 years!\*

\*Savings may vary based on model selected, hours of operation and geographical location. Example given based on 33-SEER system versus 14-SEER system.



## REBATES

To encourage customers to buy energy efficient products, many local utility companies offer significant rebates for the purchase of a ductless mini-split system. Check with your utility provider or [Rheem.com/Rebates](http://Rheem.com/Rebates).

## ENERGY STAR® QUALIFIED SYSTEMS\*

Is your HVAC equipment more than 10 years old and making your house uncomfortable? Then, call a professional HVAC contractor for an evaluation. If it is not performing efficiently or needs upgrading, consider replacing it with a unit that has earned ENERGY STAR® qualification. Installed correctly, high-efficiency heating and cooling systems can save up to 25% on utility costs.



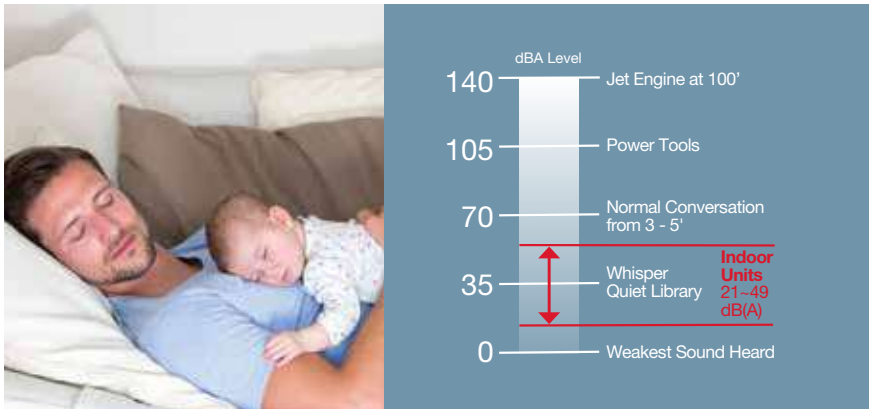
**ENERGY STAR® Criteria:**  
**SEER ≥ 15.0    EER ≥ 12.5    HSPF ≥ 8.5**

\*Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate indoor components to meet ENERGY STAR criteria. Ask your contractor for details or visit [EnergyStar.gov](http://EnergyStar.gov).

# COMFORT AND CONVENIENCE

## QUIET

Rheem® believes heating and cooling systems should be felt—not heard. Rheem Mini-Split systems are so quiet you won't even know they're on. You can sleep well at night in a comfortable, peaceful environment. Also, our wall mount units feature Quiet Mode—extra-quiet fan speed to ensure you are not disturbed.

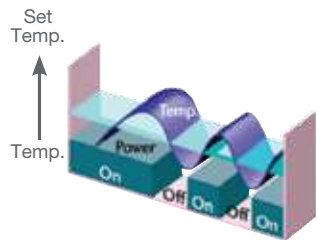


## CONSTANT COMFORT THROUGH INVERTER TECHNOLOGY

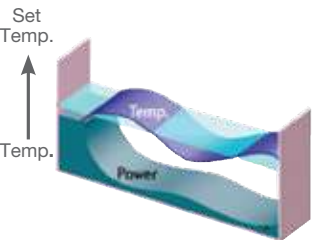
Inverter technology found in Rheem Mini-Splits is like cruise control for your heating or cooling system. Compressors only run as fast as they need to handle the cooling or heating demand. They can handle greater extremes in temperature, are smoother and more stable in operation, and reach the desired temperature more quickly than conventional heat pumps.

### Inverter Benefits

- More heat at lower outdoor temperatures
- Lower RPMs = quieter operation
- Desired temperature in half the time
- Stable temperature



Conventional System



Inverter System



## USER-FRIENDLY CONTROL

Rheem is using ergonomics to expand the use of user-friendly designs such as easy-to-read large LCD displays, easy-to-operate buttons, and displays with easily recognizable colors and icons. These control systems provide greater convenience with operability suitable for the application.



# APPLICATIONS

## Where can Rheem® Mini-Splits be used?

- Convenience stores
- Fast food chains
- Fire houses
- Police stations
- Oil rigs
- Bars
- Sunrooms and additions
- Warehouses
- Nursing homes
- Small offices
- Older homes
- New construction homes
- Schools
- Places of worship
- Hospitals and medical facilities
- Restaurants
- Computer rooms
- Hotels and motels
- Car washes
- ATM vestibules

Just about any place that requires comfort!





# LOW TEMPERATURE HEATING OPERATION

NOT ALL HEATING SYSTEMS ARE CREATED EQUAL  
Without the right technology, a system won’t work when its needed most.

## PROTECTION FROM WINTER'S COLDEST TEMPERATURES

When the temperature drops you don’t want to be left in the cold. It’s important to choose a heat pump system rated for the climate you live in. If your system doesn’t operate in severe conditions you and your family could be left without any heat at all.

Rheem’s line of mini-split heat pumps come in different sizes, styles, and rated outdoor temperatures. The Low Temperature Heating Operation Series features outdoor condensing units engineered to operate in temperatures down to -15°F.

## HIGH PERFORMANCE HEATING

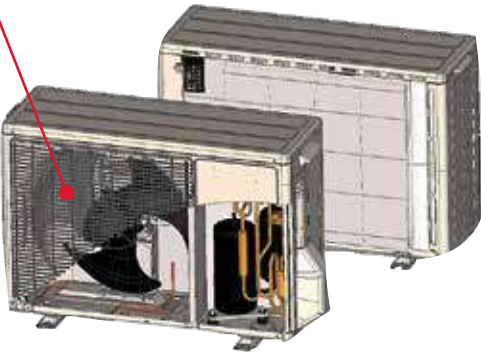
Rheem® low temperature heating operation units feature large heat exchangers and high capacity compressors. This gives our low temperature heating operation heat pumps the ability to extract heat even at very low outdoor temperatures. For example, at an indoor setpoint of 70°F, all AHHJ and AFFHJ models can deliver 100% or more of their rated heating capacity down to 3°F. All low temperature heating operation models also offer superior heating performance down to -15°F outdoor temperatures.



Rheem Low Temperature Heating Operation systems do not have a low temperature lockout, continuing to heat even below -15°F as conditions allow.

## METAL FAN GUARD

While other models have a plastic fan guard, Low Temperature Heating Operation models use metal, which is most capable of withstanding the colder elements.



## BASE PAN HEATER

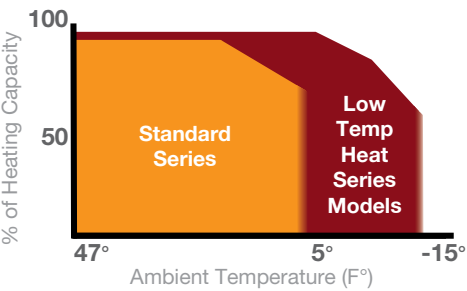
- Equipped with a heater that prevents condensate from freezing
- Contoured base design discharges melted water through drain holes.
- Without a heater, freezing condensate can cause noise, damage to fan blade, condenser, and system performance.



Drain Holes      Base Heater

## IMPROVED HEATING CAPACITY

Heating capacity at low outdoor temperatures was improved by adopting a large heat exchanger and a high capacity compressor.



# FEATURE EXPLANATION

## ENERGY SAVING

- SEER**  
Seasonal Energy Efficiency Rating. Used to express efficiency of an AC or Heat Pump. A higher rating means more efficient.
- HSPF**  
Heating Seasonal Performance Factor, measures the efficiency of heating portion of your heat pump.
- Economy Mode**  
Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.
- Energy Saving Program (ESP)**  
If a space is left without turning the unit off, ESP knows that it is unoccupied and 20 minutes later, temperature is adjusted accordingly until users return to the room. Function is disable in multi-zone installations.
- ENERGY STAR® Qualified**  
Qualified products and practices help you save money and reduce greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.
- Minimum Heat Mode**  
Sets room temperature to 50°F, keeping temperatures above freezing and reducing power consumption.

## COMFORT

- Auto Changeover (heating to cooling or vice-versa)\***  
Automatically alternates between heating or cooling if the room temperature falls 4°F below the set temperature when cooling or rises 4°F above set temperature when heating.
- Auto Fan Mode**  
System starts in high fan speed and automatically adjusts downward as room begins to reach set temperature.
- Auto Louver: 4 Way**  
Redirects airflow automatically with up / down and left / right motion.
- Auto Louver: Up / Down**  
Redirects airflow automatically with seven position up and down motion which can be set to auto swing.
- Auto Restart**  
Following a power failure, systems will automatically restart in the same operating mode as before, once power has been restored.
- Dry Mode**  
This mode gives priority to reducing the level of humidity in the room, in conjunction with lowering the temperature.
- Fresh Air Intake**  
Outside air can be introduced by attaching field supplied flexible duct to fresh air knockouts.
- Outdoor Unit Low Noise+**  
Limits compressor and fan speed during high speed operation for noise reduction purposes.
- Powerful Operation**  
20 minutes of continuous operation at maximum airflow and maximum compressor speed. Rapid cooling and heating makes the room comfortable quickly.
- Quiet Mode (Indoor Unit)**  
An extra quiet fan speed to make sure you are not disturbed.

+ Function is bypassed during defrost and at low speed operation. This feature may limit cooling /heating capacity during high / low ambient conditions and increase energy consumption as system may need to operate longer due to reduced compressor speed.

\* Auto Changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling. This feature is not recommended for systems with more than one indoor unit unless all indoor units have similar heating and cooling requirements and have similar temperature set points. If all indoor units have similar heating and cooling requirements and have similar temperature set points, auto changeover will work.

## CONVENIENCE

- 24 Hour Timer**  
Allows for one on / off cycle during a 24 hour period.
- Sleep Timer**  
Automatically adjusts the temperature while you sleep to make you more comfortable.
- Weekly Timer**  
Allows you to set on / off time twice a day and a different on / off time by day.

































## PERFORMANCE

- Apple Catechin Filter (polyphenol ingredient from apples)**  
Dust, mold spores and microorganisms are absorbed onto the filter by static electricity and growth is inhibited. 3 - 12 month life expectancy.
- Cold Prevention**  
Indoor coil will warm prior to fan operating, preventing cold air during heating mode.
- Expanded Heating Performance**  
Delivers 100% of rated heating capacity at +5°F (-15°C).
- High Ceiling Mode**  
Temperature at the top of a high ceiling room may be warmer than the space occupied; this mode adjusts for this difference.
- Ion Deodorizing Filter**  
Deodorizes by decomposing absorbed odors using the oxidizing and reducing effects of ions generated by fine ceramic particles. 3 year life expectancy. Wash to restore surface action.
- Pump Down Operation**  
Collects all refrigerant in system back into the outdoor unit when the unit is to be moved or before servicing the refrigerant circuit.
- Remote Temperature Sensor**  
Room temperature sensor is located in optional wired remote control only.
- Third Party Device Control**  
Turns system on or off using a normally closed circuit. Interface with third party devices such as home automation.
- 5°F Low Ambient Cooling**  
Can operate in cooling mode with outdoor temperatures down to -5°F. Operation outside of factory specification is not recommended.

## INSTALLATION

- Base Pan Heater**  
Prevents condensate from freezing on the outdoor unit.
- Blue Fin Heat Exchanger**  
Blue fin treatment to the outdoor unit's heat exchanger improves corrosion resistance.
- Built-In Condensate Pump**  
Integrated into the indoor unit.
- Daisy Chain**  
Ability to connect up to 16 identical style indoor units to one wired remote.
- Long Piping Length**  
Long piping lengths between indoor and outdoor units provides flexibility and increased applications.
- Slender Fit**  
Cassette body can be moved downward into the room 1-3/8" to accommodate limited ceiling space.

SYSTEM  
FEATURE  
SUMMARY

SINGLE-ZONE HEAT PUMPS																MULTI-ZONE HEAT PUMPS			
WALL MOUNT																FLOOR MOUNT			
																COMPACT CASSETTE			
																SLIM DUCT			
SEER	36AXJ	15.5	9.0	●			●	●	●	●		●	●	●	●				
HSPF	30AXJ	16.5	9.0	●			●	●	●	●	●	●	●	●	●				
	30AHXHJ	18.7	11.7	●	●	●	●	●	●	●	●	●	●	●	●				
	24AHXHJ	19.5	10.0	●		●	●	●	●	●	●	●	●	●	●				
	24AXFWJ	19.5	10.6	●		●	●	●	●	●	●	●	●	●	●				
	24ASJ	18.0	10.6	●			●	●	●	●	●	●	●	●	●				
	18AHXHJ	20.0	10.4	●		●	●	●	●	●	●	●	●	●	●				
	18AXFWJ	20.0	10.5	●		●	●	●	●	●	●	●	●	●	●				
	18ASJ	19.0	10.6	●		●	●	●	●	●	●	●	●	●	●				
	15AHHJ	25.3	13.3	●	●	●	●	●	●	●	●	●	●	●	●				
	15AHWJ	25.3	13.4	●	●	●	●	●	●	●	●	●	●	●	●				
	12AHHJ	29.3	13.8	●	●	●	●	●	●	●	●	●	●	●	●				
	12AHWJ	29.3	14.0	●	●	●	●	●	●	●	●	●	●	●	●				
	12AFWJ	22.0	11.0	●		●	●	●	●	●	●	●	●	●	●				
	12AVSA	16.0	9.0	●			●	●	●	●	●	●	●	●	●				
	09AHHJ	33.0	14.0	●	●	●	●	●	●	●	●	●	●	●	●				
	09AHWJ	33.0	14.2	●	●	●	●	●	●	●	●	●	●	●	●				
	09AFWJ	23.0	11.0	●		●	●	●	●	●	●	●	●	●	●				
	09AVSA	16.0	9.0	●			●	●	●	●	●	●	●	●	●				
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
																			
Warranty: up to 10 Yr Comp / Parts																1	1	1	1

❑ Available only with optional wired remote control.

▲ Available only with optional wireless remote control.

◆ Available only with optional Fresh Air Intake Kit.

\* See bottom of Page 17 for qualifying combinations.

^ SEER and HSPF ratings depend on combination of indoor units and outdoor unit selected.

+ Auto Changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling. This feature is not recommended for systems with more than one indoor unit unless all indoor units have similar heating and cooling requirements and have similar temperature set points. If all indoor units have similar heating and cooling requirements and have similar temperature set points, auto changeover will work.

1 Standard warranty is 5 year Parts / 7 year Compressor. Warranty will be extended to a period of ten (10) years under specific conditions and online registration is required (registermyunit.com) For Complete details, contact your local Contractor, or go to Rheem.com for a copy of the product warranty certificate.

■ Available only with optional wired remote controller and optional Interface Kit.









○ Available only with optional Interface Kit. Operation monitoring and On / Off control only.




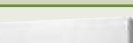

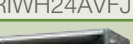



\*\* Operation monitoring and On / Off control only.







SINGLE-ZONE AND MULTI-ZONE SYSTEMS LINEUP

Minimum Ambient Cooling Temperature:  Minimum Ambient Heating Temperature:

SINGLE-ZONE DUCTLESS HEAT PUMP SYSTEMS									
BTU	9,000	12,000	15,000		18,000	24,000	30,000	36,000	42,000
Prestige® Series Wall Mount	 RIWH09AHWJ / ROSH09AHWJ	 RIWH12AHWJ / ROSH12AHWJ	 RIWH15AHWJ / ROSH15AHWJ						
Prestige Series Wall Mount Low Temp Heating Operation	 RIWH09AHWJ / ROSH09AHHJ	 RIWH12AHWJ / ROSH12AHHJ	 RIWH15AHWJ / ROSH15AHHJ		 RIWH18AVFJ / ROSH18AHXJ	 RIWH24AVFJ / ROSH24AHXJ	 RIWH30AVFJ / ROSH30AHXJ		
Classic Plus® Series Wall Mount	 RIWH09AVFJ / ROSH09AFWJ	 RIWH12AVFJ / ROSH12AFWJ			 RIWH18AVFJ / ROSH18AFXJ	 RIWH24AVFJ / ROSH24AFXJ			
Classic® Series Wall Mount	 RIWH09AVSA / ROSH09AVSA	 RIWH12AVSA / ROSH12AVSA			 RIWH18ASJ / ROSH18ASJ	 RIWH24ASJ / ROSH24ASJ	 RIWH30AXJ / ROSH30AXJ	 RIWH36AXJ / ROSH36AXJ	
Prestige Series Floor Mount	 RIFH09AVFJ / ROSH09AFFJ	 RIFH12AVFJ / ROSH12AFFJ	 RIFH15AVFJ / ROSH15AFFJ						
Prestige Series Floor Mount Low Temp Heating Operation	 RIFH09AVFJ / ROSH09AFFHJ	 RIFH12AVFJ / ROSH12AFFHJ	 RIFH15AVFJ / ROSH15AFFHJ						
Classic Series Compact Cassette	 RICH09AVFJ / ROSH09AFCJ	 RICH12AVFJ / ROSH12AFCJ			 RICH18AVFJ / ROSH18AFCJ				
Classic Series Slim Duct	 RIDH09AVFJ / ROSH09AFCJ	 RIDH12AVFJ / ROSH12AFCJ			 RIDH18AVFJ / ROSH18AFCJ				

MULTI-ZONE DUCTLESS HEAT PUMPS - INDOOR UNITS						
BTU	7,000	9,000	12,000	15,000	18,000	24,000
Classic Plus Series Compact Wall Mount	 RIWH07AVFJ	 RIWH09AVFJ	 RIWH12AVFJ	 RIWH15AVFJ		
Classic Plus Series Large Wall Mount					 RIWH18AVFJ	 RIWH24AVFJ
Classic Series Slim Duct	 RIDH07AVFJ	 RIDH09AVFJ	 RIDH12AVFJ		 RIDH18AVFJ	 RIDH24AVFJ
Classic Series Compact Cassette	 RICH07AVFJ	 RICH09AVFJ	 RICH12AVFJ		 RICH18AVFJ	
Classic Series Floor Mount		 RIFH09AVFJ	 RIFH12AVFJ	 RIFH15AVFJ		

MULTI-ZONE DUCTLESS HEAT PUMPS - OUTDOOR UNITS				
BTU	18,000 (2 Indoor Units)	24,000 (2 - 3 Indoor Units)	36,000 (2* - 4 Indoor Units)	45,000 (2 - 5 Indoor Units)
	 ROMH18AFXZJ	 ROMH24AFXZJ	 ROMH36AFXZJ	 ROMH45AFXZJ

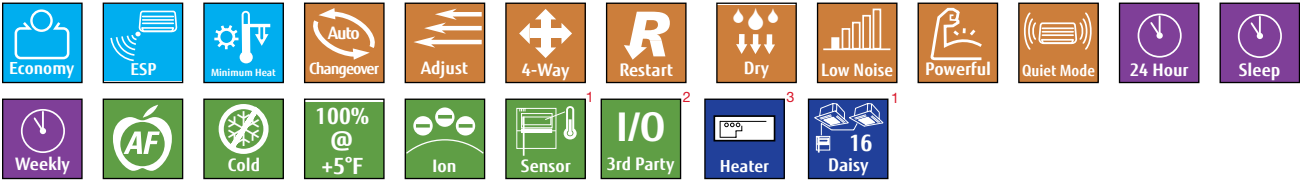
\* If ROMH36AFXZJ is paired with two 18,000 BTU indoor units, you have to purchase optional kit Part #K9FZ1818.  
+ The only combinations that qualify for ENERGY STAR® are:  
ROMH18AFXZJ with (2) RIWH09AVFJ  
ROMH18AFXZJ with (1) RIWH07AVFJ + (1) RIWH12AVFJ  
ROMH18AFXZJ with (1) RIWH09AVFJ + (1) RIWH12AVFJ

# SINGLE-ZONE MINI-SPLIT SYSTEMS

## Making the hottest places cool and the coolest places more comfortable

- Extensive lineup from 9,000 to 42,000 BTU
  - 38 different systems available in 7 indoor unit styles
  - Energy efficient systems with SEER ratings as high as 33.0 and HSPF as high as 14.2
  - 25 ENERGY STAR® qualified systems
- Inverter Technology is used in all systems
  - All systems feature environmentally friendly R410A refrigerant
  - Quiet operation with indoor units as low as 21dB and outdoor units as low as 47dB

## 9, 12, 15,000 BTU/HR WALL MOUNT HEAT PUMPS



<sup>1</sup>Available only with optional wired Remote Control and optional interface kit.  
<sup>2</sup>Available only with optional interface kit. Operation monitoring and On / Off control only.  
<sup>3</sup>Low temperature heating operation models only

### ENERGY SAVING PROGRAM

These Rheem® systems know how to save you money even when you forget. If you leave the room without turning the unit off, ESP knows that you left and 20 minutes later, set temperature is increased by 4°F when cooling and reduced by 8°F when heating. When you come back to the room, it returns to previous operating mode. This prevents wasteful operation to save energy without you having to think about it. This feature can be deactivated if chosen.



### OPTIONAL ACCESSORIES

- Wired Remote Control: RXRVNUM
- Wired Remote Control: RXRNNUM
- Simple Remote Control: RXRSNUM
- Interface Kit: RXTWBXF1
- Dry Contact Wire Kit: RXXWZXZ5

### HIGH PERFORMANCE HEATING

The AHWJ model can operate down to -5°F. The AHHJ can operate down to -15°F. See the full low temperature heating operation story on page 12.

# LOW TEMP HEATING SYSTEMS

## 09AHWJ, 12AHWJ, 15AHWJ, 09AHHJ, 12AHHJ, 15AHHJ

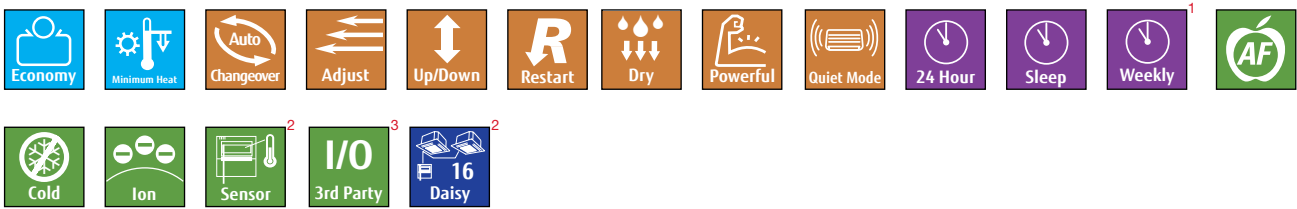
UP TO 33.0 SEER



Performance													
Nominal Cooling	BTU/HR	9,000		12,000		14,500		9,000		12,000		14,500	
Min.-Max. Cooling	BTU/HR	3,100~12,000		3,100~13,600		3,100~18,400		3,100~12,000		3,100~13,600		3,100~18,400	
Nominal Heating	BTU/HR	12,000		16,000		18,000		12,000		16,000		18,000	
Min.-Max. Heating	BTU/HR	3,100~22,000		3,100~22,100		3,100~23,900		3,100~22,000		3,100~22,100		3,100~23,900	
SEER		33.0		29.3		25.3		33.0		29.3		25.3	
HSPF		14.2		14.0		13.4		14.0		13.8		13.3	
EER		18.0		15.2		13.9		18.0		15.2		13.9	
Cooling Operating Range	°F (°C)	14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)	
Heating Operating Range	°F (°C)	-5~75 (-21~24)		-5~75 (-21~24)		-5~75 (-21~24)		-15~75 (-26~24)		-15~75 (-26~24)		-15~75 (-26~24)	
Moisture Removal	Pt./h (l/h)	2.6 (1.2)		2.7 (1.3)		4.0 (1.9)		2.6 (1.2)		2.7 (1.3)		4.0 (1.9)	
Max Htg % of Model # Capacity at +5°F (-15°C)*		171%		138%		140%		171%		138%		140%	
Max Htg % of Model # Capacity at -5°F (-21°C)*		156%		125%		124%		156%		125%		124%	
Max Htg % of Model # Capacity at -15°F (-26°C)*		--		--		--		123%		98%		109%	
Fan													
Air Circulation: Hi	CFM (m3/h)	489 (830)		489 (830)		547 (930)		489 (830)		489 (830)		547 (930)	
Air Circulation: Medium	CFM (m3/h)	400 (680)		400 (680)		459 (780)		400 (680)		400 (680)		459 (780)	
Air Circulation: Low	CFM (m3/h)	341 (580)		341 (580)		371 (630)		341 (580)		341 (580)		371 (630)	
Quiet	CFM (m3/h)	224 (380)		224 (380)		Clg 259 (440) Htg 294 (500)		224 (380)		224 (380)		Clg 259 (440) Htg 294 (500)	
Fan Speed Stage		4+Auto		4+Auto		4+Auto		4+Auto		4+Auto		4+Auto	
Sound													
Indoor Level (Clg/Htg): Hi	dB(A)	42/41		42/41		45/45		42/41		42/41		45/45	
Indoor Level (Clg/Htg): Medium	dB(A)	37/35		37/35		40/39		37/35		37/35		40/39	
Indoor Level (Clg/Htg): Low	dB(A)	32/31		32/31		34/33		32/31		32/31		34/33	
Quiet	dB(A)	23/23		23/23		26/27		23/23		23/23		26/27	
Outdoor Level Clg/Htg	dB(A)	42/47		43/47		49/50		42/47		43/47		49/50	
Electrical													
Voltage / Frequency / Phase		208-230/60/1		208-230/60/1		208-230/60/1		208-230/60/1		208-230/60/1		208-230/60/1	
Circuit Breaker	Amps	15		15		20		15		15		20	
Current Rated / Max: Cooling	Amps	2.5/9.4		3.8/9.4		4.8/9.9		2.5/9.4		3.8/9.4		4.8/9.9	
Current Rated / Max: Heating	Amps	3.3/10.0		4.7/11.9		5.2/13.9		3.3/10.0		4.7/11.9		5.2/13.9	
Power Use Rated / Max: Cooling	kW	0.50/0.85		0.79/0.99		1.04/1.56		0.50/0.85		0.79/0.99		1.04/1.56	
Power Use Rated / Max: Heating	kW	0.66/1.93		1.01/1.94		1.15/2.19		0.66/1.93		1.01/1.94		1.15/2.19	
Size & Weight													
Net Weight	lbs. (kg)	31 (14)	84 (38)	31 (14)	84 (38)	31 (14)	86 (39)	31 (14)	86 (39)	31 (14)	86 (39)	31 (14)	88 (40)
Height	Inch	11-5/8	24-7/16	11-5/8	24-7/16	11-5/8	24-7/16	11-5/8	24-7/16	11-5/8	24-7/16	11-5/8	24-7/16
	mm	295	620	295	620	295	620	295	620	295	620	295	620
Width	Inch	37	31-1/8	37	31-1/8	37	31-1/8	37	31-1/8	37	31-1/8	37	31-1/8
	mm	940	790	940	790	940	790	940	790	940	790	940	790
Depth	Inch	10-5/8	11-7/16	10-5/8	11-7/16	10-5/8	11-7/16	10-5/8	11-7/16	10-5/8	11-7/16	10-5/8	11-7/16
	mm	270	290	270	290	270	290	270	290	270	290	270	290
Refrigerant		R410A		R410A		R410A		R410A		R410A		R410A	
Additional Data													
Air Direction: Horizontal		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic	
Air Direction: Vertical		Automatic		Automatic		Automatic		Automatic		Automatic		Automatic	
Air Filter		Washable		Washable		Washable		Washable		Washable		Washable	
Minimum Lineset Length	Ft (m)	10 (3)		10 (3)		10 (3)		10 (3)		10 (3)		10 (3)	
Maximum Lineset Length	Ft (m)	66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')	
Max. Vertical Diff.	Ft (m)	49 (15)		49 (15)		49 (15)		49 (15)		49 (15)		49 (15)	
Lineset Size	Inch	Suc.3/8	Dis.1/4	Suc.3/8	Dis.1/4	Suc.1/2	Dis.1/4	Suc.3/8	Dis.1/4	Suc.3/8	Dis.1/4	Suc.1/2	Dis.1/4
* Based on model # capacity class (e.g. 09AHWJ based on 9,000 BTU/HR) @ 70°F indoor setpoint. Refer to the Design & Technical Manual for more heating capacity data.		Indoor RIWH09AHWJ	Outdoor ROSH09AHHJ	Indoor RIWH12AHWJ	Outdoor ROSH12AHHJ	Indoor RIWH15AHWJ	Outdoor ROSH15AHHJ	Indoor RIWH09AHWJ	Outdoor ROSH09AHHJ	Indoor RIWH12AHWJ	Outdoor ROSH12AHHJ	Indoor RIWH15AHWJ	Outdoor ROSH15AHHJ



9 AND 12,000 BTU/HR WALL MOUNT HEAT PUMPS

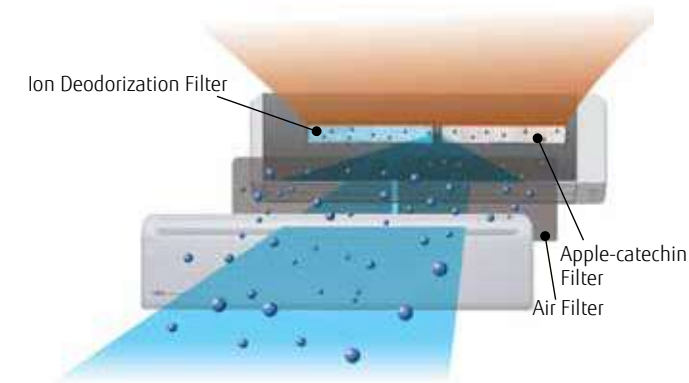


<sup>1</sup>Available only with optional wired remote control.  
<sup>2</sup>Available only with optional wired remote control and optional interface kit.  
<sup>3</sup>Available only with optional interface kit. Operation monitoring and On / Off control only.

BUILT IN FILTRATION

**LONG-LIFE ION DEODORIZATION FILTER**  
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine particle ceramic. The filter can be used for approximately 3 years if it is washed with water when dirty to restore its surface action.

**APPLE CATECHIN FILTER**  
Dust, mold spores and micro-organisms are absorbed onto the filter by static electricity and growth is inhibited and deactivated. Filter lasts 3-12 months.



OPTIONAL ACCESSORIES

- Wired Remote Control: RXRVNUM\*
  - Wired Remote Control: RXRNNUM\*
  - Simple Remote Control: RXRSNUM\*
  - Dry Contact Wire Kit: RXXWZXZ5
  - Interface Kit: RXXCBXZ2
- \* Wall mounted RIWH09, 12AVFJ require accessory interface kit #RXXCBXZ2 in order to connect these devices to them.

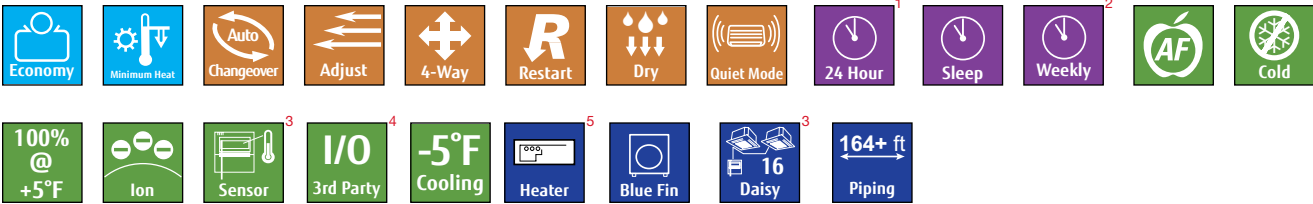
SYSTEMS  
09AFWJ, 12AFWJ

UP TO 23 SEER

		09AFWJ	12AFWJ
Performance			
Nominal Cooling	BTU/HR	9,000	12,000
Min.-Max. Cooling	BTU/HR	1,700~10,900	3,100~13,300
Nominal Heating	BTU/HR	12,000	16,000
Min.-Max. Heating	BTU/HR	1,700~15,000	3,100~19,100
SEER		23.0	22.0
HSPF		11.0	11.0
EER		13.8	12.5
Cooling Operating Range	°F (°C)	14~115 (-10~46)	14~115 (-10~46)
Heating Operating Range	°F (°C)	5~75 (-15~24)	5~75 (-15~24)
Moisture Removal	Pt./h (l/h)	2.75 (1.3)	3.80 (1.8)
Fan			
Air Circulation: Hi	CFM (m3/h)	441 (750)	441 (750)
Air Circulation: Medium	CFM (m3/h)	376 (640)	376 (640)
Air Circulation: Low	CFM (m3/h)	282 (480) Clg 306 (520) Htg	282 (480) Clg 306 (520) Htg
Quiet	CFM (m3/h)	182 (310) Clg 194 (330) Htg	182 (310) Clg 194 (330) Htg
Fan Speed Stage		4+Auto	4+Auto
Sound			
Indoor Sound Level (Clg/Htg): Hi	dB(A)	43/43	43/43
Indoor Sound Level (Clg/Htg): Medium	dB(A)	40/38	40/38
Indoor Sound Level (Clg/Htg): Low	dB(A)	32/33	32/33
Quiet	dB(A)	21/22	21/22
Outdoor Sound Level Clg/Htg	dB(A)	48/48	49/49
Electrical			
Voltage / Frequency / Phase		208-230/60/1	208-230/60/1
Circuit Breaker	Amps	20	20
Current Rated / Max: Cooling	Amps	3.2/6.0	4.4/6.5
Current Rated: Heating	Amps	4.2/7.5	5.9/9.0
Power Use Rated / Max: Cooling	kW	0.65/1.27	0.96/1.40
Power Use Rated: Heating	kW	0.89/1.60	1.28/1.99
Size & Weight			
Net Weight	lbs. (kg)	18 (8)	60 (27)
Height	Inch	10-1/2	21-1/4
	mm	268	540
Width	Inch	33-1/16	26
	mm	840	660
Depth	Inch	8	11-7/16
	mm	203	290
Refrigerant		R410A	R410A
Additional Data			
Air Direction: Horizontal		Manual	Manual
Air Direction: Vertical		Automatic	Automatic
Air Filter		Washable	Washable
Minimum Lineset Length	Ft (m)	10 (3)	10 (3)
Maximum Lineset Length	Ft (m)	66 (20.1) (pre-charge: 49')	66 (20.1) (pre-charge: 49')
Max. Vertical Diff.	Ft (m)	49 (15)	49 (15)
Lineset Size	Inch	Suc. 3/8	Dis. 1/4
		Indoor RIWH09AVFJ	Outdoor ROSH09AFWJ
		Indoor RIWH12AVFJ	Outdoor ROSH12AFWJ

Note: Figures are based on 230 Volts.

18 AND 24,000 BTU/HR WALL MOUNT HEAT PUMPS

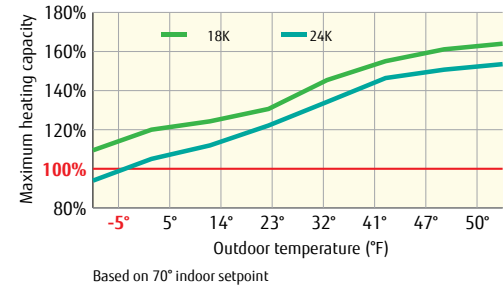


<sup>1</sup>AXFWJ systems only.  
<sup>2</sup>AXFWJ systems require optional wired remote control.  
<sup>3</sup>Available only with optional wired remote control.  
<sup>4</sup>Available only with optional Interface kit. Operation monitoring and On / Off control only.  
<sup>5</sup>AHXHJ models only.

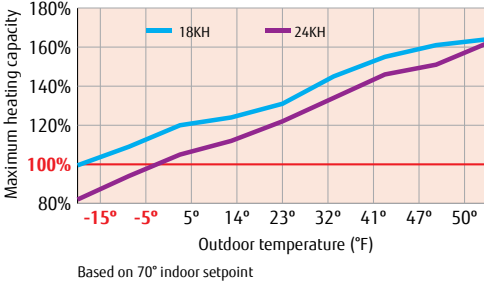
HIGH PERFORMANCE HEATING CAPACITY

Stay comfortable at low ambient temperatures! The AXFWJ systems can deliver 100% or more of rated heating capacity at 5°F (-15°C) and operates down to -5°F (-21°C).

The AHXHJ model can operate down to -15°F. See the full Low Temperature Heating Operation story on page 12.



AXFWJ



AHXHJ

OPTIONAL ACCESSORIES

- Wired Remote Control: RXRVNUM
- Wired Remote Control: RXRNNUM
- Simple Remote Control: RXRSNUM
- Dry Contact Wire Kit: RXXWZX

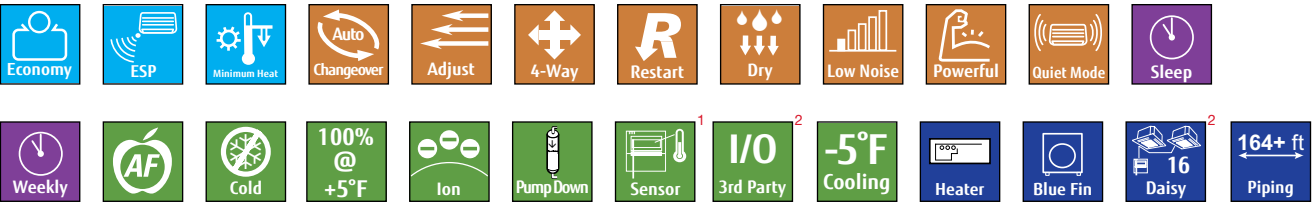
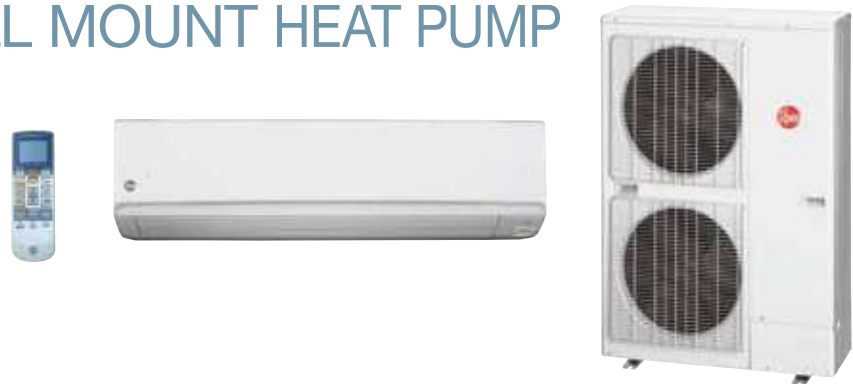
LOW TEMP HEATING SYSTEMS  
18AXFWJ, 24AXFWJ, 18AHXHJ, 24AHXHJ

UP TO 20 SEER		18AXFWJ	24AXFWJ	18AHXHJ	24AHXHJ
Performance					
Nominal Cooling	BTU/HR	18,000	22,000	18,000	22,000
Min.-Max. Cooling	BTU/HR	7,000~23,000	9,900~27,300	7,000~23,000	9,900~27,300
Nominal Heating	BTU/HR	21,600	25,200	21,600	25,200
Min.-Max. Heating	BTU/HR	7,000~29,000	7,500~36,200	7,000~29,000	7,500~36,200
SEER		20.0	19.5	20.0	19.5
HSPF		10.5	10.6	10.4	10.5
EER		13.3	12.5	13.3	12.5
Cooling Operating Range	°F (°C)	-5~115 (-20~46)	-5~115 (-20~46)	-5~115 (-20~46)	-5~115 (-20~46)
Heating Operating Range	°F (°C)	-5~75 (-20~24)	-5~75 (-20~24)	-15~75 (-26~24)	-15~75 (-26~24)
Moisture Removal	Pt./h (l/h)	5.9 (2.8)	6.3 (3.0)	5.9 (2.8)	6.3 (3.0)
Max Htg % of Model # Capacity at +5°F (-15°C)*		120%	105%	120%	105%
Max Htg % of Model # Capacity at -5°F (-21°C)*		109%	94%	109%	94%
Max Htg % of Model # Capacity at -15°F (-26°C)*		-	-	100%	82%
Fan					
Air Circulation: Hi	CFM (m3/h)	541 (920)	Clg 659 (1,120) Htg 677 (1,150)	541 (920)	Clg 659 (1,120) Htg 677 (1,150)
Air Circulation: Medium	CFM (m3/h)	435 (740)	530 (900)	435 (740)	530 (900)
Air Circulation: Low	CFM (m3/h)	365 (620)	435 (740)	365 (620)	435 (740)
Quiet	CFM (m3/h)	Clg 306 (520) Htg 318 (540)	365 (620)	Clg 306 (520) Htg 318 (540)	365 (620)
Fan Speed Stage		4+Auto	4+Auto	4+Auto	4+Auto
Sound					
Indoor Level (Clg/Htg): Hi	dB(A)	43/44	49/49	43/44	49/49
Indoor Level (Clg/Htg): Medium	dB(A)	37/37	42/42	37/37	42/42
Indoor Level (Clg/Htg): Low	dB(A)	33/33	37/37	33/33	37/37
Quiet	dB(A)	28/28	33/33	28/28	33/33
Outdoor Level Clg/Htg	dB(A)	47/50	54/55	47/50	54/55
Electrical					
Voltage / Frequency / Phase		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Circuit Breaker	Amps	20	30	20	20
Current Rated / Max: Cooling	Amps	6.2/13.5	7.9/15.0	6.2/13.5	7.9/15
Current Rated / Max: Heating	Amps	7.8/14.5	8.6/15.5	7.8/14.5	8.6/15.5
Power Use Rated / Max: Cooling	kW	1.35/3.01	1.76/3.42	1.35/3.01	1.76/3.42
Power Use Rated / Max: Heating	kW	1.80/3.23	2.38/3.53	1.75/3.23	1.94/3.53
Size & Weight					
Net Weight	lbs. (kg)	31 (14)	134 (61)	31 (14)	134 (61)
Height	Inch	12-5/8	32-3/4	12-5/8	32-3/4
	mm	320	830	320	830
Width	Inch	39-1/4	35-3/8	39-1/4	35-3/8
	mm	998	900	998	900
Depth	Inch	9	13	9	13
	mm	228	330	228	330
Refrigerant		R410A	R410A	R410A	R410A
Additional Data					
Air Direction: Horizontal		Automatic	Automatic	Automatic	Automatic
Air Direction: Vertical		Automatic	Automatic	Automatic	Automatic
Air Filter		Washable	Washable	Washable	Washable
Minimum Lineset Length	Ft (m)	16 (5)	16 (5)	16 (5)	16 (5)
Maximum Lineset Length	Ft (m)	164 (50) (pre-charge: 66')	164 (50) (pre-charge: 66')	164 (50) (pre-charge: 65')	164 (50) (pre-charge: 65')
Max. Vertical Diff.	Ft (m)	98 (30)	98 (30)	30 (98)	30 (98)
Lineset Size	Inch	Suc. 5/8 Dis. 3/8	Suc. 5/8 Dis. 3/8	Suc.5/8 Dis.3/8	Suc.5/8 Dis.3/8
* Based on model # capacity class (e.g. 09AHWJ based on 9,000 BTU/HR) @ 70°F indoor setpoint. Refer to the Design & Technical Manual for more heating capacity data.		Indoor RWH18AVFJ	Outdoor ROSH18AXFWJ	Indoor RWH24AVFJ	Outdoor ROSH24AXFWJ
		Indoor RWH18AVFJ	Outdoor ROSH18AXHJ	Indoor RWH24AVFJ	Outdoor ROSH24AXHJ

Note: Figures are based on 230 Volts.



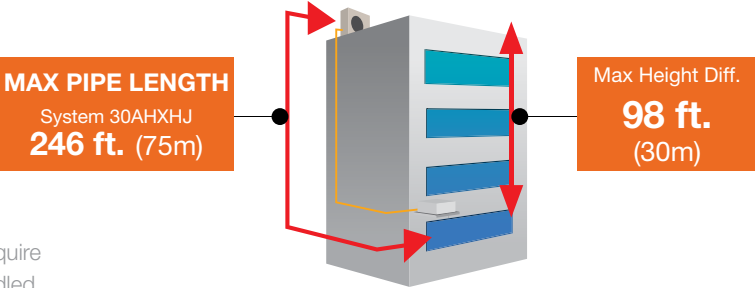
30,000 BTU/HR WALL MOUNT HEAT PUMP



<sup>1</sup>Available only with optional wired remote control.  
<sup>2</sup>Available only with optional Interface kit.

EXTENDED LINESET

Long piping lengths between indoor and outdoor units provides flexibility and increased applications.



SERVER ROOM MODE

Server rooms can generate a tremendous amount of heat, and require cooling 24 hours a day. The strain of such a heat load is best handled with a redundant cooling system. Pairing two 30AHXHJ systems together in Server Room Mode offers a unique solution for keeping network servers cool.

Two 30AHXHJ systems can be set up to work together in Lead Lag<sup>^</sup> operation:

- Alternative Operation – units alternate operation, so neither unit is running at the same time.
- Backup Operation – if an error occurs on one unit, the second unit will turn on.
- Supporting Operation – if the setpoint cannot be reached with one unit alone, the second unit will come on to satisfy the demand for cooling.

<sup>^</sup>Wired remotes cannot be used when using this feature.  
This includes RXRNRUZ1, RXRVNUM, RXRNNUM, RXRSNUM.

LOCK OUT FUNCTION

This feature is set by the contractor on behalf of the Commercial Property Owner to prevent either Cooling or Heating operation from occurring. This is not a function that can be set by a tenant, user, or homeowner.

HIGH PERFORMANCE HEATING CAPACITY

The AHXHJ model can operate down to -15°F. See the full Low Temperature Heating Operation story on page 12.

ADDITIONAL APPLICATIONS THAT MAY REQUIRE LOW AMBIENT COOLING

- Conference / Meeting / Training Rooms
- Social Gathering spots
- Places of Worship

OPTIONAL ACCESSORIES

- Wired Touch Panel Remote Controller: RXRNRUZ2<sup>^</sup>
- Wired Remote Control: RXRVNUM<sup>^</sup>
- Wired Remote Control: RXRNNUM<sup>^</sup>
- Simple Remote Control: RXRSNUM<sup>^</sup>
- Dry Contact Wire Kit: RXXWZX
- Interface Kit: RXXCSXZ1
- Interface Kit Box: RXGXXB
- Outdoor Unit Input / Output Connector: UTY-XWZXZ3

LOW TEMP HEATING SYSTEM  
30RAHXHJ

UP TO 18.7 SEER



Performance			
Nominal Cooling	BTU/HR	30,000	
Min.-Max. Cooling	BTU/HR	9,900~32,400	
Nominal Heating	BTU/HR	32,000	
Min.-Max. Heating	BTU/HR	8,000~37,500	
SEER		18.7	
HSPF		11.7	
EER		12.5	
Cooling Operating Range	°F (°C)	-5~115 (-20~46)	
Heating Operating Range	°F (°C)	-15~75 (-26~24)	
Moisture Removal	Pt./h (l/h)	9.7 (4.6)	
Max Htg % of Model # Capacity at +5°F (-15°C)*		107%	
Max Htg % of Model # Capacity at -5°F (-21°C)*		91%	
Max Htg % of Model # Capacity at -15°F (-26°C)*		76%	
Fan			
Air Circulation: Hi	CFM (m3/h)	812 (1,380)	
Air Circulation: Medium	CFM (m3/h)	665 (1,130)	
Air Circulation: Low	CFM (m3/h)	536 (910)	
Quiet	CFM (m3/h)	418 (710)	
Fan Speed Stage		4+Auto	
Sound			
Indoor Sound Level (Clg/Htg): Hi	dB(A)	50/49	
Indoor Sound Level (Clg/Htg): Medium	dB(A)	45/44	
Indoor Sound Level (Clg/Htg): Low	dB(A)	38/38	
Quiet	dB(A)	32/32	
Outdoor Sound Level Clg/Htg	dB(A)	53/54	
Electrical			
Voltage / Frequency / Phase		208-230/60/1	
Circuit Breaker	Amps	30	
Current Rated: Cooling	Amps	10.6	
Current Rated: Heating	Amps	12.0	
Power Use Rated / Max: Cooling	kW	2.40/3.83	
Power Use Rated / Max: Heating	kW	2.74/4.28	
Size & Weight			
Net Weight	lbs. (kg)	40 (18)	205 (93)
Height	Inch	13-3/8	50-13/16
	mm	340	1,290
Width	Inch	45-1/4	35-3/8
	mm	1,150	900
Depth	Inch	11	13
	mm	280	330
Refrigerant		R410A	
Additional Data			
Air Direction: Horizontal		Automatic	
Air Direction: Vertical		Automatic	
Air Filter		Washable	
Minimum Lineset Length	Ft (m)	16 (5)	
Maximum Lineset Length	Ft (m)	246 (75) (pre-charge: 65")	
Max. Vertical Diff.	Ft (m)	30 (98)	
Lineset Size	Inch	Suc.5/8	Dis.3/8

\*Based on model # capacity class (e.g. 09AHWJ based on 9,000 BTU/HR) @ 70°F indoor setpoint. Refer to the Design & Technical Manual for more heating capacity data.

Note: Figures are based on 230 Volts.

9 AND 12,000 BTU/HR, 115V, WALL MOUNT HEAT PUMPS



FUNCTION

Stylish, slim and elegant, these popular wall mounted units are designed for single rooms. Indoor units have a clean, aesthetic design and are small but mighty and shorter in length than competing units, helping them blend into any room.

EASY MAINTENANCE

Front panel is easily removed for cleaning.



APPLICATIONS

This category of equipment is ideal for smaller spaces where spot cooling or heating is required. Residential applications including sunrooms and additions are made easier with these 115 volt heat pumps. Do you have a warm or cool spot in your home? Rheem mini-splits can provide extra cooling or heating capacity for those hard to cool areas. Commercially, their small size makes them ideal for small offices, providing individual temperature control.

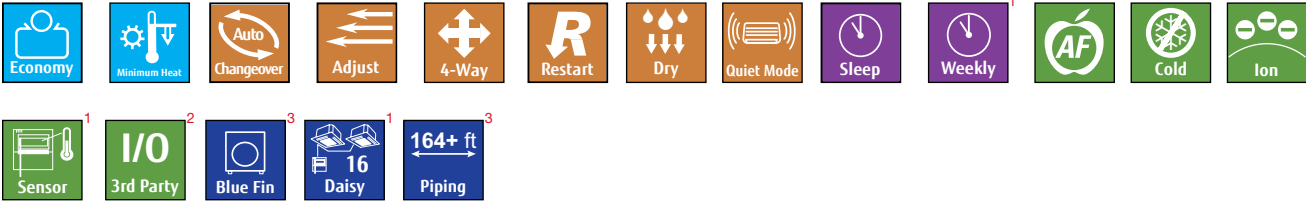
SYSTEMS  
9AVSA, 12AVSA

16.0 SEER		09AVSA		12AVSA	
Performance					
Nominal Cooling	BTU/HR	9,000		12,000	
Min.-Max. Cooling	BTU/HR	1,700~10,700		3,100~12,500	
Nominal Heating	BTU/HR	10,000		14,000	
Min.-Max. Heating	BTU/HR	1,700~12,000		3,100~16,000	
SEER		16.0		16.0	
HSPF		9.0		9.0	
EER		10.8		10.0	
Cooling Operating Range	°F (°C)	15~115 (-10~46)		15~115 (-10~46)	
Heating Operating Range	°F (°C)	15~75 (-10~24)		15~75 (-10~24)	
Moisture Removal	Pt./h (l/h)	2.7 (1.3)		3.8 (1.8)	
Fan					
Air Circulation: Hi	CFM (m3/h)	436 (740)		436 (740)	
Air Circulation: Medium	CFM (m3/h)	353 (600)		353 (600)	
Air Circulation: Low	CFM (m3/h)	265 (450)		265 (450)	
Quiet	CFM (m3/h)	191 (325)		191 (325)	
Fan Speed Stage		4 + Auto		4 + Auto	
Sound					
Indoor Sound Level (Clg/Htg): Hi	dB(A)	43/43		43/43	
Indoor Sound Level (Clg/Htg): Medium	dB(A)	38/38		38/38	
Indoor Sound Level (Clg/Htg): Low	dB(A)	33/33		33/33	
Quiet	dB(A)	23/23		23/23	
Outdoor Sound Level Clg/Htg	dB(A)	47/48		51/51	
Electrical					
Voltage / Frequency / Phase		115/60/1		115/60/1	
Circuit Breaker	Amps	15		20	
Current Rated: Cooling	Amps	7.5		10.9	
Current Rated: Heating	Amps	7.0		11.0	
Power Use Rated: Cooling	kW	0.83		1.20	
Power Use Rated: Heating	kW	0.77		1.21	
Size & Weight					
Net Weight	lbs. (kg)	16 (7)	64 (29)	16 (7)	69 (31)
Height	Inch	10-5/16	21-1/4	10-5/16	21-1/4
	mm	262	540	262	540
Width	Inch	32-9/32	26	32-9/32	26
	mm	820	660	820	660
Depth	Inch	8-1/8	11-11/32	8-1/8	11-11/32
	mm	206	290	206	290
Refrigerant		R410A		R410A	
Additional Data					
Air Direction: Horizontal		Manual		Manual	
Air Direction: Vertical		Automatic		Automatic	
Air Filter		Washable		Washable	
Minimum Lineset Length	Ft (m)	10 (3)		10 (3)	
Maximum Lineset Length	Ft (m)	66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')	
Max. Vertical Diff.	Ft (m)	49 (15)		49 (15)	
Lineset Diameter	Inch	Suc. 3/8	Dis. 1/4	Suc. 3/8	Dis. 1/4
		Indoor RIWH09AVSA	Outdoor ROSH09AVSA	Indoor RIWH12AVSA	Outdoor ROSH12AVSA

Note: Figures are based on 115 Volts.



18, 24, 30, 36,000 BTU/HR WALL MOUNT HEAT PUMPS



<sup>1</sup>Available only with optional wired remote control.  
<sup>2</sup>Available only with optional Interface kit.  
<sup>3</sup>AXJ models only.

FUNCTION

Stylish, slim and elegant, these wall mounted ductless heat pumps are designed for single rooms. Ideal for spaces requiring additional capacity but are limited on space. With more efficient zone control, ductless mini-splits are perfect for renovations, restorations, conversions, and add-ons.

OPTIONAL ACCESSORIES

- Wired Remote Control: RXRVNUM
- Wired Remote Control: RXRNNUM
- Simple Remote Control: RXRSNUM
- Dry Contact Wire Kit: RXXWZX

LOCK OUT FUNCTION

This feature is set by the contractor on behalf of the Commercial Property Owner to prevent either Cooling or Heating operation from occurring. This is not a function that can be set by a tenant, user, or homeowner.

SYSTEMS  
18ASJ, 24ASJ, 30AXJ, 36AXJ

UP TO 19.0 SEER



		18ASJ	24ASJ	30AXJ	36AXJ
Performance					
Nominal Cooling	BTU/HR	18,000	24,000	30,000	33,000
Min.-Max. Cooling	BTU/HR	3,100~19,000	3,100~25,000	9,900~32,400	9,900~34,100
Nominal Heating	BTU/HR	18,000	24,000	30,000	34,000
Min.-Max. Heating	BTU/HR	7,000~20,000	7,500~27,000	8,000~33,000	10,200~35,000
SEER		19.0	18.0	16.5	15.5
HSPF		10.6	10.6	9.0	9.0
EER		12.5	10.0	9.5	8.5
Cooling Operating Range	°F (°C)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)
Heating Operating Range	°F (°C)	5~75 (-15~24)	5~75 (-15~24)	5~75 (-15~24)	5~75 (-15~24)
Moisture Removal	Pt./h (l/h)	4.0 (1.9)	6.3 (3.0)	9.7 (4.6)	10.1 (4.8)
Fan					
Air Circulation: Hi	CFM (m3/h)	542 (920)	659 (1,120) Clg 647 (1,100) Htg	659 (1,120) Clg 677 (1,150) Htg	695 (1,180)
Air Circulation: Medium	CFM (m3/h)	439 (740)	530 (900)	530 (900)	530 (900)
Air Circulation: Low	CFM (m3/h)	365 (620)	436 (740)	436 (740)	436 (740)
Quiet	CFM (m3/h)	306 (520)	365 (620)	365 (620)	365 (620)
Fan Speed Stage		4+Auto	4+Auto	4+Auto	4+Auto
Sound					
Indoor Sound Level (Clg/Htg): Hi	dB(A)	42/43	47/47	47/49	50/50
Indoor Sound Level (Clg/Htg): Medium	dB(A)	35/36	41/42	42/42	42/42
Indoor Sound Level (Clg/Htg): Low	dB(A)	31/33	35/36	37/37	37/37
Quiet	dB(A)	26/28	31/33	32/33	32/33
Outdoor Sound Level Clg/Htg	dB(A)	51/50	54/55	52/55	52/55
Electrical					
Voltage / Frequency / Phase		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Circuit Breaker	Amps	15	20	30	30
Current Rated / Max: Cooling	Amps	6.4/8.3	10.5/11.8	13.8/16.8	17.0/18.0
Current Rated / Max: Heating	Amps	5.8/11.8	8.5/13.8	12.3/18.8	14.8/18.8
Power Use Rated: Cooling	kW	1.44/1.89	2.40/2.69	3.16/3.83	3.88/4.10
Power Use Rated: Heating	kW	1.29/2.69	1.93/3.14	2.80/4.28	3.39/4.28
Size & Weight					
Net Weight	lbs. (kg)	31 (14)	86 (39)	31 (14)	86 (39)
Height	Inch	12-5/8	24-7/16	12-5/8	24-7/16
	mm	320	620	320	620
Width	Inch	39-5/16	31-1/8	39-5/16	31-1/8
	mm	998	790	998	790
Depth	Inch	9	11-7/16	9	11-7/16
	mm	228	290	228	290
Refrigerant		R410A	R410A	R410A	R410A
Additional Data					
Air Direction: Horizontal		Automatic	Automatic	Automatic	Automatic
Air Direction: Vertical		Automatic	Automatic	Automatic	Automatic
Air Filter		Washable	Washable	Washable	Washable
Minimum Piping Length	Ft (m)	10 (3)	10 (3)	16 (5)	16 (5)
Maximum Piping Length	Ft (m)	66 (20) (pre-charge: 49')	66 (20) (pre-charge: 49')	165 (50) (pre-charge: 66')	165 (50) (pre-charge: 66')
Maximum Vertical Differential	Ft (m)	49 (15)	49 (15)	98 (30)	98 (30)
Lineset Size	Inch	Suc.1/2 Dis.1/4	Suc.1/2 Dis.1/4	Suc.5/8 Dis.3/8	Suc.5/8 Dis.3/8
		Indoor RIWH18ASJ	Outdoor ROSH18ASJ	Indoor RIWH24ASJ	Outdoor ROSH24ASJ
		Indoor RIWH30AXJ	Outdoor ROSH30AXJ	Indoor RIWH36AXJ	Outdoor ROSH36AXJ

Note: Figures are based on 230 Volts.

## 9, 12, 15,000 BTU/HR FLOOR MOUNT HEAT PUMPS



## IDEAL RADIATOR REPLACEMENT



At less than 24" high and 30" wide, floor mount models fit easily under a standard window and can replace a radiator twice its size while producing more capacity.

## BASE PAN HEATER (AFFHJ MODELS)

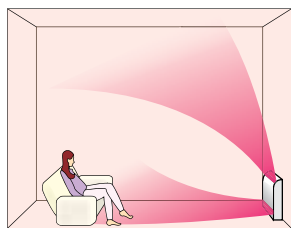
AFFJ models can operate down to -5°F. AFFHJ models can operate down to -15°F. See the full Low Temperature Heating Operation story on page 12.

## OPTIONAL ACCESSORIES

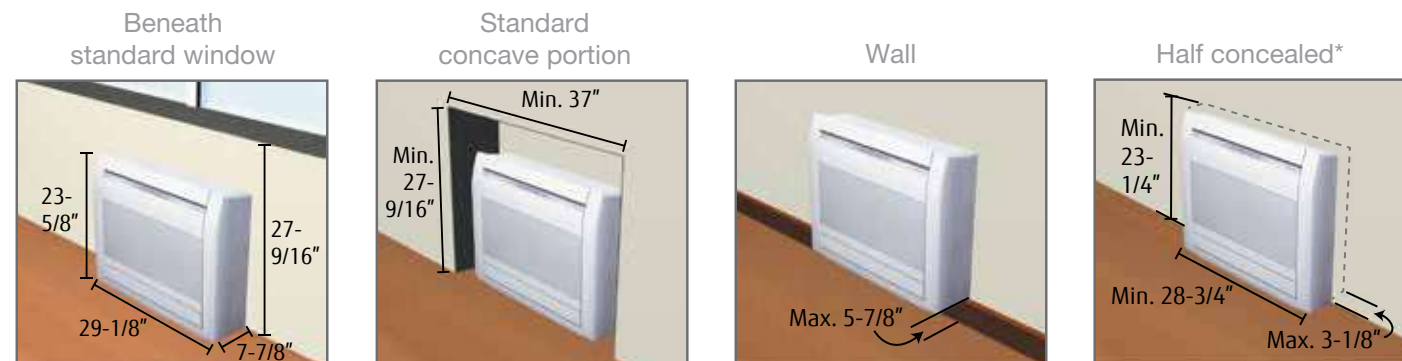
- Wired Remote Control: RXRVNUM
- Wired Remote Controller: RXRNNUM
- Simple Remote Control: RXRSNUM
- Dry Contact Wire Kit: RXXWZXZ5

## TWO FANS AND WIDE AIRFLOW

Having both upper and lower airflow quickly warms or cools the entire room. Floor mount can be set in "Upward Airflow Only" when occupants wish not to have feet warmed or cooled.









## FLEXIBLE AND EASY INSTALLATION



\*Field supplied insulation required

## LOW TEMP HEATING SYSTEMS

SYSTEMS  
09AFFJ, 12AFFJ, 15AFFJ

UP TO 26 SEER		09AFFJ		12AFFJ		15AFFJ		09AFFHJ		12AFFHJ		15AFFHJ	
													
Performance													
Nominal Cooling	BTU/HR	9,000		12,000		14,200		9,000		12,000		14,200	
Min.-Max. Cooling	BTU/HR	3,100~13,000		3,100~14,300		3,100~17,700		3,100~13,000		3,100~14,300		3,100~17,700	
Nominal Heating	BTU/HR	12,000		16,000		18,000		12,000		16,000		18,000	
Min.-Max. Heating	BTU/HR	3,100~18,800		3,100~22,100		3,100~23,900		3,100~18,800		3,100~19,500		3,100~20,800	
SEER		26.0		22.7		20.3		26.0		22.7		20.3	
HSPF		12.6		11.6		11.2		12.4		11.3		11.0	
EER		16.0		13.1		12.5		16.0		13.1		12.5	
Cooling Operating Range	°F (°C)	14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)	
Heating Operating Range	°F (°C)	-5~75 (-21~24)		-5~75 (-21~24)		-5~75 (-21~24)		-15~75 (-26~24)		-15~75 (-26~24)		-15~75 (-26~24)	
Moisture Removal	Pt./h (l/h)	2.75 (1.3)		3.8 (1.8)		4.44 (2.1)		2.75 (1.3)		3.8 (1.8)		4.44 (2.1)	
Max Htg % of Model # Capacity at +5°F (-15°C)*		149%		125%		118%		149%		125%		118%	
Max Htg % of Model # Capacity at -5°F (-21°C)*		130%		111%		107%		130%		111%		107%	
Max Htg % of Model # Capacity at -15°F (-26°C)*		--		--		--		115%		100%		96%	
Fan													
Air Circulation: Hi	CFM (m3/h)	335 (570)		335 (570)		383 (650)		335 (570)		335 (570)		383 (650)	
Air Circulation: Medium	CFM (m3/h)	271 (460)		271 (460)		306 (520)		271 (460)		271 (460)		306 (520)	
Air Circulation: Low	CFM (m3/h)	212 (360)		212 (360)		235 (400)		212 (360)		212 (360)		235 (400)	
Quiet	CFM (m3/h)	159 (270)		159 (270)		159 (270)		159 (270)		159 (270)		159 (270)	
Fan Speed Stage		4+Auto		4+Auto		4+Auto		4+Auto		4+Auto		4+Auto	
Sound													
Indoor Level (Clg/Htg): Hi	dB(A)	40/40		40/40		44/43		40/40		40/40		44/43	
Indoor Level (Clg/Htg): Medium	dB(A)	35/35		35/35		38/37		35/35		35/35		38/37	
Indoor Level (Clg/Htg): Low	dB(A)	29/29		29/29		31/29		29/29		29/29		31/29	
Quiet	dB(A)	23/23		23/23		23/23		23/23		23/23		23/23	
Outdoor Level Clg/Htg	dB(A)	50/50		52/52		54/54		50/50		52/52		54/54	
Electrical													
Voltage / Frequency / Phase		208-230/60/1		208-230/60/1		208-230/60/1		208-230/60/1		208-230/60/1		208-230/60/1	
Circuit Breaker	Amps	15		15		20		15		15		20	
Current Rated: Cooling	Amps	2.9		4.2		5.1		2.9		4.2		5.1	
Current Rated: Heating	Amps	4.1		6.7		7.0		4.1		6.7		7.0	
Power Use Rated: Cooling	kW	.56		.97		1.13		.56		.97		1.13	
Power Use Rated: Heating	kW	.88		1.44		1.58		.88		1.44		1.58	
Size & Weight													
Net Weight	lbs. (kg)	31 (14)	84 (38)	31 (14)	84 (38)	31 (14)	86 (39)	31 (14)	86 (39)	31 (14)	86 (39)	31 (14)	88 (40)
Height	Inch	23-5/8	24-7/16	23-5/8	24-7/16	23-5/8	24-7/16	23-5/8	24-7/16	23-5/8	24-7/16	23-5/8	24-7/16
	mm	600	620	600	620	600	620	600	620	600	620	600	620
Width	Inch	29-1/8	31-1/8	29-1/8	31-1/8	29-1/8	31-1/8	29-1/8	31-1/8	29-1/8	31-1/8	29-1/8	31-1/8
	mm	740	790	740	790	740	790	740	790	740	790	740	790
Depth	Inch	7-7/8	11-7/16	7-7/8	11-7/16	7-7/8	11-7/16	7-7/8	11-7/16	7-7/8	11-7/16	7-7/8	11-7/16
	mm	200	290	200	290	200	290	200	290	200	290	200	290
Refrigerant		R410A		R410A		R410A		R410A		R410A		R410A	
Additional Data													
Air Direction: Horizontal		Manual		Manual		Manual		Manual		Manual		Manual	
Air Direction: Vertical		Auto		Auto		Auto		Auto		Auto		Auto	
Air Filter		Washable		Washable		Washable		Washable		Washable		Washable	
Minimum Lineset Length	Ft (m)	10 (3)		10 (3)		10 (3)		10 (3)		10 (3)		10 (3)	
Maximum Lineset Length	Ft (m)	66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')	
Max. Vertical Differential	Ft (m)	49 (15)		49 (15)		49 (15)		49 (15)		49 (15)		49 (15)	
Lineset Size	Inch	Suc. 3/8 Dis. 1/4		Suc. 3/8 Dis. 1/4		Suc. 1/2 Dis. 1/4		Suc. 3/8 Dis. 1/4		Suc. 3/8 Dis. 1/4		Suc. 1/2 Dis. 1/4	
* Based on model # capacity class (e.g. 9RLS3Y based on 9,000 BTU/HR) @ 70°F indoor setpoint. Refer to the Design & Technical Manual for more heating capacity data.		Indoor RIFH09AVFJ	Outdoor ROSH09AFFJ	Indoor RIFH12AVFJ	Outdoor ROSH12AFFJ	Indoor RIFH15AVFJ	Outdoor ROSH15AFFJ	Indoor RIFH09AVFJ	Outdoor ROSH09AFFJH	Indoor RIFH12AVFJ	Outdoor ROSH12AFFHJ	Indoor RIFH15AVFJ	Outdoor ROSH15AFFHJ

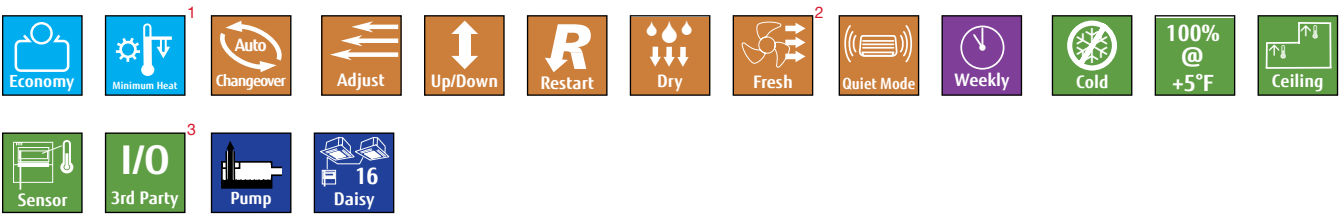
Note: Figures are based on 230 Volts.



9, 12, 18,000 BTU/HR COMPACT CASSETTE HEAT PUMPS



Compact Cassette Grille RXCCGF shown is sold separately and must be ordered with each compact cassette.



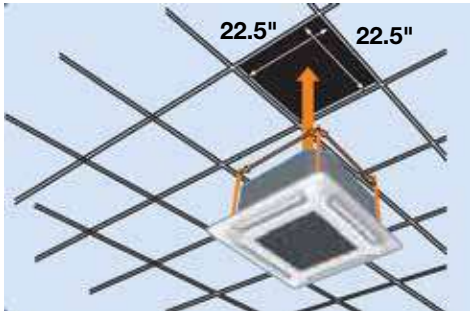
<sup>1</sup>Available only with optional wireless remote control.  
<sup>2</sup>Requires Rheem's Optional Fresh Air Kit part #RXVXAA. Allows for a 4-inch flex duct connection. Requires a field supplied duct booster fan capable of 60 CFM at .2" W.C. or 90 CFM at .4" W.C. For fan static pressure requirements, see installation manual. Add hood, filter and duct losses for fan total static pressure requirements. Will add 4" to the height of the indoor unit.  
<sup>3</sup>Available only with optional Interface kit. Operation monitoring and On / Off control only.

FUNCTION

Compact cassettes provide comfort cooling or heating for small room applications. Features include high efficiency up to 24.0 SEER, heating at low temperatures down to -5°F, compact design, quiet operation, a standard wired remote control, and the ability to bring in fresh air through the optional Fresh Air Kit.

EASY INSTALLATION

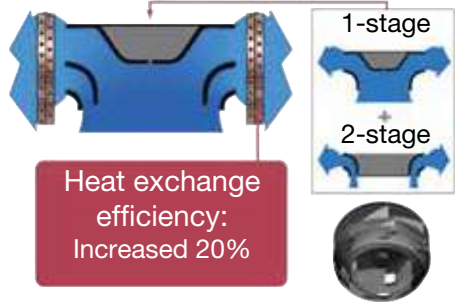
Fits into a standard ceiling tile\*.



\*Dimensions of outer grille are 27-9/16" x 27-9/16" and may overlap adjacent tiles.

2-STAGE TURBO FAN

Air distribution is evenly spread across the heat exchanger by the 2-stage turbo fan which produces two separate airflow streams.



QUIET OPERATION

Optimization of wing form (laminar wing design) and number of wings (7 blades) enables as low as 27 dB.

Designed by CFD-analysis (fluid) simulations





OPTIONAL ACCESSORIES

- Wired Remote Control: RXRVNUM
- Wireless remote RXLNHUM
- Fresh Air Kits RXVXAA  
Mixes room air which then passes through the heat exchanger.

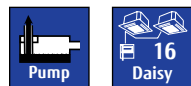


SYSTEMS  
09AFCJ, 12AFCJ, 18AFCJ

		09AFCJ		12AFCJ		18AFCJ	
UP TO 24.0 SEER							
Performance							
Nominal Cooling	BTU/HR	9,000		12,000		18,000	
Min.-Max. Cooling	BTU/HR	3,100~12,000		3,100~13,600		3,100~20,100	
Nominal Heating	BTU/HR	12,000		16,000		21,600	
Min.-Max. Heating	BTU/HR	3,100~18,000		3,100~19,400		3,100~25,600	
SEER		24.0		21.9		20.1	
HSPF		13.0		12.2		11.5	
EER		14.5		12.8		11.2	
Cooling Operating Range	°F (°C)	14~115 (-10~46)		14~115 (-10~46)		14~115 (-10~46)	
Heating Operating Range	°F (°C)	-5~75 (-21~24)		-5~75 (-21~24)		-5~75 (-21~24)	
Moisture Removal	Pt./h (l/h)	1.3 (.06)		2.5 (1.2)		4.6 (2.2)	
Fan							
Air Circulation: Hi	CFM (m3/h)	318 (540) Clg or Htg		359 (610) Clg or Htg		400 (680) Clg 471 (800) Htg	
Air Circulation: Medium	CFM (m3/h)	288 (490) Clg or Htg		312 (530) Clg or Htg		341 (580) Clg 400 (680) Htg	
Air Circulation: Low	CFM (m3/h)	259 (440) Clg or Htg		277 (470) Clg or Htg		288 (490) Clg 341 (580) Htg	
Quiet	CFM (m3/h)	230 (390) Clg or Htg		241 (410) Clg or Htg		241 (410) Clg 265 (450) Htg	
Fan Speed Stage		4+auto		4+auto		4+auto	
Sound							
Indoor Sound Level (Clg/Htg): Hi	dB(A)	33/34		37/37		40/44	
Indoor Sound Level (Clg/Htg): Medium	dB(A)	32/32		33/33		36/40	
Indoor Sound Level (Clg/Htg): Low	dB(A)	29/29		31/31		32/36	
Quiet	dB(A)	28/27		28/28		28/30	
Outdoor Sound Level Clg/Htg	dB(A)	48/49		49/50		54/55	
Electrical							
Voltage / Frequency / Phase		208-230/60/1		208-230/60/1		208-230/60/1	
Circuit Breaker	Amps	15		15		20	
Current Rated: Cooling	Amps	3.0		4.4		7.1	
Current Rated: Heating	Amps	4.1		6.7		7.7	
Power Use Rated / Max: Cooling	kW	0.62/1.40		0.94/1.45		1.61/2.15	
Power Use Rated / Max: Heating	kW	0.89/1.80		1.44/2.00		1.76/2.60	
Size & Weight							
Net Weight	lbs. (kg)	33 (15)	84 (38)	33 (15)	84 (38)	33 (15)	86 (39)
Height	Inch	9-11/16	1-15/16	9-11/16	1-15/16	9-11/16	1-15/16
	mm	245	49	245	49	245	49
Width	Inch	22-7/16	27-9/16	22-7/16	27-9/16	22-7/16	27-9/16
	mm	570	700	570	700	570	700
Depth	Inch	22-7/16	27-9/16	22-7/16	27-9/16	22-7/16	27-9/16
	mm	570	700	570	700	570	700
Refrigerant		R410A		R410A		R410A	
Additional Data							
Air Direction: Vertical		Automatic		Automatic		Automatic	
Air Filter		Washable		Washable		Washable	
Minimum Lineset Length	Ft (m)	10 (3)		10 (3)		10 (3)	
Maximum Lineset Length	Ft (m)	66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')		66 (20) (pre-charge: 49')	
Max. Vertical Diff.	Ft (m)	49 (15)		49 (15)		49 (15)	
Lineset Size	Inch	suc 3/8	dis 1/4	suc 3/8	dis 1/4	suc 1/2	dis 1/4
		Indoor RICH09AVFJ	Grille RXCCGF	Outdoor ROSH09AFCJ	Indoor RICH12AVFJ	Grille RXCCGF	Outdoor ROSH12AFCJ
					Indoor RICH18AVFJ	Grille RXCCGF	Outdoor ROCH18AFCJ

Note: Figures are based on 230 Volts.

## 9, 12, 18,000 BTU/HR SLIM DUCT HEAT PUMPS



<sup>1</sup>Available only with optional wireless remote control.

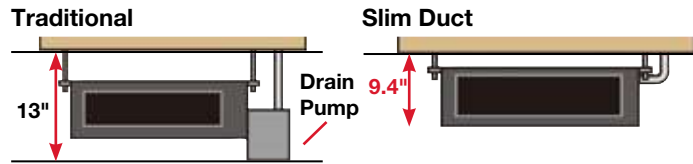
<sup>2</sup>Available only with optional Interface kit. Operation monitoring and On / Off control only.

## FUNCTION

Slim ducts provide cooling or heating for small room applications such as offices, restaurants, convenience stores, motels, dorms, in retrofit and new construction. Long maximum combined piping length of 66' and 49' in height allow for versatile installations. Either horizontal or vertical flexibility and low height enables compact soffit or cabinet installation.

## SLIM DUCT

Built-in drain pump allows for installation of slim duct unit in smaller spaces than traditional units.



## RETURN AIR-INTAKE CHOICES



## FIELD SUPPLIED FILTERS USED WITH SLIM DUCT UNITS

Although Slim Duct units come with factory filters, when return ductwork is used field supplied filters are more practical to use. They can be installed at the unit or for more convenient servicing, in filter grilles. See the guidelines to the right to determine filter sizes.

The chart includes CFM, external static pressure capability and a typical filter size for each model. Filters are sized to keep velocities and static pressure loss low. This will ensure sufficient static pressure is available for ductwork, fittings and supply and return grilles.

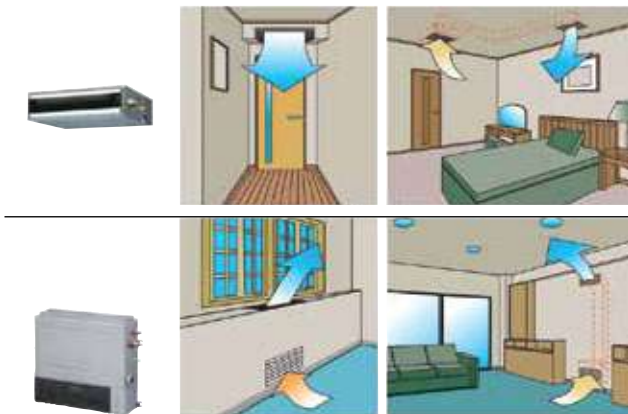
Alternative filter sizes with equivalent face areas can be used. After deducting filter loss, available static pressure values are shown.



A fiberglass filter is shown in blue to the left. A MERV pleated filter is shown in white.

## FLEXIBLE INSTALLATION

Unit can be placed horizontally or vertically. However, internal drain pump will not operate when the unit is mounted in a vertical configuration.





## OPTIONAL ACCESSORIES

- Wired Remote Control: RXRVNUM
- Wireless Remote and Receiver RXLRHUM
- Auto Louver Grille Kit: RXGXSA-W (for RIDH07/09/12) and RXGXSB-W (for RIDH18)



	RIDH 09AVFJ	RIDH 12AVFJ	RIDH 18AVFJ
CFM	353	383	547
Typical Filter Size	12 x 20	12 x 20	14 x 25
Velocity, FPM	212	230	228
Unit External SP, in. W.C.	0.36	0.36	0.36
1" Fiberglass Filter			
SP Loss, in. W.C.	0.04	0.05	0.04
Available Static Pressure	0.32	0.31	0.32
1" MERV 8 Pleated Filter			
SP Loss, in. W.C.	0.12	0.14	0.14
Available Static Pressure	0.24	0.22	0.22
2" MERV 8 Pleated Filter			
SP Loss, in. W.C.	0.07	0.08	0.08
Available Static Pressure	0.29	0.28	0.28

SYSTEMS  
RIDH09AVFJ, RIDH12, RIDH18

UP TO 21.5 SEER		09AFCJ				12AFCJ				18AFCJ						
																
Performance																
Nominal Cooling	BTU/HR	9,000				12,000				18,000						
Min.-Max. Cooling	BTU/HR	3,100~12,000				3,100~13,600				3,100~20,100						
Nominal Heating	BTU/HR	12,000				16,000				21,600						
Min.-Max. Heating	BTU/HR	3,100~18,000				3,100~19,400				3,100~25,600						
SEER		21.5				20.0				19.7						
HSPF		12.2				11.5				11.3						
EER		14.5				12.8				12.0						
Cooling Operating Range	°F (°C)	14~115 (-10~46)				14~115 (-10~46)				14~115 (-10~46)						
Heating Operating Range	°F (°C)	-5~75 (-21~24)				-5~75 (-21~24)				-5~75 (-21~24)						
Moisture Removal	Pt./h (l/h)	1.5 (.07)				2.7 (1.3)				4.2 (2.0)						
Fan																
Air Circulation: Hi	CFM (m3/h)	353 (600)				383 (650)				554 (940)						
Air Circulation: Medium	CFM (m3/h)	324 (550)				353 (600)				518 (880)						
Air Circulation: Low	CFM (m3/h)	294 (500)				324 (550)				483 (820)						
Quiet	CFM (m3/h)	265 (450)				283 (480)				442 (750)						
Fan Speed Stage		4+auto				4+auto				4+auto						
Sound																
Indoor Sound Level (Clg/Htg): Hi	dB(A)	28/28				29/29				32/32						
Indoor Sound Level (Clg/Htg): Medium	dB(A)	27/26				28/28				30/30						
Indoor Sound Level (Clg/Htg): Low	dB(A)	26/25				27/27				29/29						
Quiet	dB(A)	25/24				26/24				27/27						
Outdoor Sound Level Clg/Htg	dB(A)	48/49				49/50				54/55						
Electrical																
Voltage / Frequency / Phase		208-230/60/1				208-230/60/1				208-230/60/1						
Circuit Breaker	Amps	15				15				20						
Current Rated: Cooling	Amps	3.0				4.4				6.6						
Current Rated: Heating	Amps	3.9				6.0				7.3						
Power Use Rated / Max: Cooling	kW	0.62/1.40				0.94/1.45				1.50/2.15						
Power Use Rated / Max: Heating	kW	0.85/1.80				1.30/2.00				1.67/2.60						
Size & Weight																
Net Weight	lbs. (kg)	41 (19)				84 (38)	41 (19)				84 (38)	50 (23)				86 (39)
Height	Inch	7-25/32	5-15/16	6	24-1/2	7-25/32	5-15/16	6	24-1/2	7-25/32	5-15/16	6	24-1/2			
	mm	198	151	152	620	198	151	152	620	198	151	152	620			
Width	Inch	27-9/16	25-19/32	22	31-3/32	27-9/16	25-19/32	22	31-3/32	35-7/16	33-15/32	30	31-3/32			
	mm	700	650	559	790	700	650	559	790	900	850	762	790			
Depth	Inch	24-13/32	3/4	3/4 Flat	11-11/32	24-13/32	3/4	3/4 Flat	11-11/32	24-13/32	3/4	3/4 Flat	11-11/32			
	mm	620	19	19 Flat	290	620	19	19 Flat	290	620	19	19 Flat	290			
Refrigerant		R410A				R410A				R410A						
Additional Data																
Static Pressure in. W. C.		0 ~ 0.36				0 ~ 0.36				0 ~ 0.36						
Air Filter		Washable				Washable				Washable						
Minimum Lineset Length	Ft (m)	10 (3)				10 (3)				10 (3)						
Maximum Lineset Length	Ft (m)	66 (20) (pre-charge: 49')				66 (20) (pre-charge: 49')				66 (20) (pre-charge: 49')						
Max. Vertical Diff.	Ft (m)	49 (15)				49 (15)				49 (15)						
Lineset Size	Inch	suc 3/8				dis 1/4	suc 3/8				dis 1/4	suc 1/2				dis 1/4
		Indoor RIDH09AVFJ	SUPPLY DUCT FLANGE	RETURN DUCT	Outdoor ROSH09AFCJ	Indoor RIDH12AVFJ	SUPPLY DUCT FLANGE	RETURN DUCT	Outdoor ROSH12AFCJ	Indoor RIDH18AVFJ	SUPPLY DUCT FLANGE	RETURN DUCT	Outdoor ROSH18AFCJ			

Note: Figures are based on 230 Volts.



## MULTI-ZONE MINI-SPLIT SYSTEMS

ROMH18AFXZJ, ROMH24AFXZJ,  
ROMH36AFXZJ, ROMH45AFXZJ

- Operate as few as one indoor unit or all indoor units
- Choose from 4 indoor unit styles - wall mount, slim duct, compact cassette, and floor mount
- Create hundreds of combinations based on indoor type and BTU/HR
- Connect 2 to 5 indoor units, depending on model
- Connect 14,000 to 54,000 BTU/HR
- No branch boxes or separation tubes required
- A Tri-Zone 24,000 BTU Unit  
Rheem offers a 2-ton system that provides 2 or 3-zone flexibility. By using connectable capacity, this system allows up to three 9,000 BTU units.
- Pricing Compared to Competition  
Additional outdoor units provides better matched BTU capacity with indoor units. By better matching the outdoor unit to the indoor capacity a better system value is achieved.

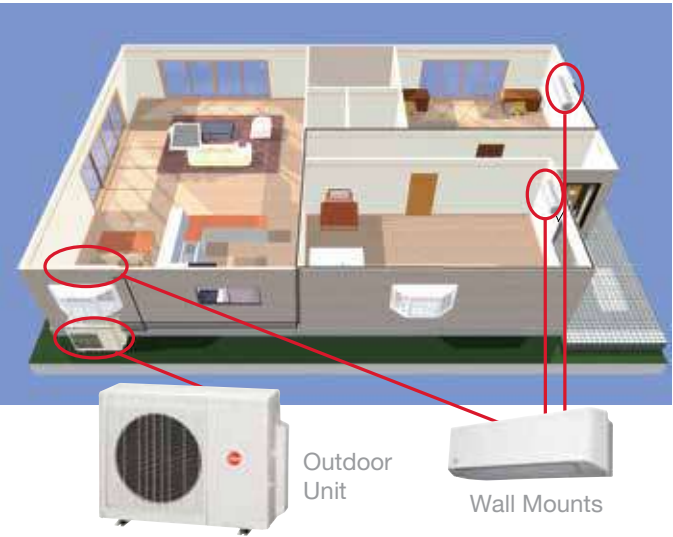




# YEAR-ROUND, WHOLE HOME OR BUSINESS COMFORT

Ductless systems are one of today's most advanced forms of heating and cooling. Multi-zone outdoor units can operate from 2 to 5 indoor units simultaneously. Rheem® Mini-Split systems are super quiet as well as highly energy efficient.

Shown to the right is outdoor model ROMH36AFXZJ connected to three wall mount indoor units.



## MULTI-ZONE SYSTEMS 18,000, 24,000, 36,000, AND 45,000 BTU/HR

### Connectable Capacity

This allows connectable indoor units' total capacity to exceed outdoor unit capacity. See Allowable Combination table on page 50.

If all indoor units are cooling or heating at the same time, the system will limit their capacity so that their total matches the outdoor unit's capacity. When a zone meets a desired set temperature it requires less capacity. The unused capacity is then distributed to the remaining indoor units, increasing their capacity.



### MIX AND MATCH FLEXIBILITY

The ability to create the **right** combinations, the **right** quantity (up to 5-zones), the **right** style indoor units, and the **right** capacity. It's the **RIGHT** choice for your home or business.

MULTI-ZONE OUTDOOR UNITS

	ROMH18AFXZJ	ROMH24AFXZJ	ROMH36AFXZJ	ROMH45AFXZJ
WALL MOUNTS				
RIWH07, 09, 12AVFJ	✓	✓	✓	✓
RIWH15AVFJ		✓	✓	✓
RIWH18AVFJ		✓	✓	✓
RIWH24AVFJ			✓	✓
FLOOR MOUNTS				
RIFH09, 12AVFJ	✓	✓	✓	✓
RIFH15AVFJ		✓	✓	✓
SLIM DUCTS				
RIDH07, 09, 12AVFJ	✓	✓	✓	✓
RIDH18AVFJ		✓	✓	✓
RIDH24AVFJ			✓	✓
COMPACT CASSETTES				
RICH07, 09, 12AVFJ	✓	✓	✓	✓
RICH18AVFJ		✓	✓	✓

MULTI-ZONE INDOOR UNITS

### EFFICIENT INSTALLATION EXAMPLE

The load on a 3-bedroom home with a living room and kitchen downstairs and 3 bedrooms upstairs is 39,000 BTUs (21,000 BTU downstairs and 18,000 BTU upstairs). However, the family isn't upstairs and downstairs at the same time, therefore not all units will be running simultaneously, allowing 100% heating or cooling to occupied spaces. This can be achieved by our ROMH36AFXZJ outdoor unit.

# INDIVIDUAL ZONING: PERSONALIZED WHOLE HOME COMFORT

## WALL MOUNTED

They mount high on a wall, out of sight and do not require ductwork, increasing energy efficiency.

- Quiet operation
- Easy maintenance
- High delivered efficiency means lower utility bills



## SLIM DUCT

Mounted in a ceiling or in a framed enclosure below a ceiling. They use minimal ductwork and remain very energy efficient.

- Concealed and out of sight
- Look of central air with the efficiency of a mini-split
- Less ducts = higher efficiency

## COMPACT CASSETTE

Cassettes are extremely discreet, with only the grille showing in the ceiling. They use the latest fan technology to distribute the conditioned air evenly.

- Wired remote control (wireless is optional)
- Powerful turbo fan operation
- Fits into a standard 2' x 2' ceiling grid



## FLOOR MOUNTED

Floor mount systems are ideal for residential radiator replacements or any room with limited upper wall space, like a kitchen or sunroom.

- Compact size fits easily under a standard window
- Features twin airflow for improved heat delivery
- Designer wireless remote control



7, 9, 12, 15, 18, 24,000 BTU/HR WALL MOUNT

MULTI-ZONE INDOOR



RIWH07, 09, 12, 15AVFJ



RIWH18, 24AVFJ



<sup>1</sup>Auto Changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling. This feature is not recommended for systems with more than one indoor unit unless all indoor units have similar heating and cooling requirements and have similar temperature set points. If all indoor units have similar heating and cooling requirements and have similar temperature set points, auto changeover will work.

<sup>2</sup>RIWH18,24AVFJ models only.  
<sup>3</sup>RIWH07,09,12,12AVFJ models only.  
<sup>4</sup>RIWH07,09,12,12AVFJ models: Available only with optional wired remote control.  
<sup>5</sup>Available only with optional wired remote control and optional interface kit.  
<sup>6</sup>Available only with optional interface kit.

BUILT IN FILTRATION

LONG-LIFE ION DEODORIZATION FILTER



The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic. The filter can be used for approximately 3 years if it is washed with water when dirty to restore its surface action.

APPLE CATECHIN FILTER



Dust, mold spores and micro-organisms are absorbed onto the filter by static electricity and growth is inhibited and deactivated.

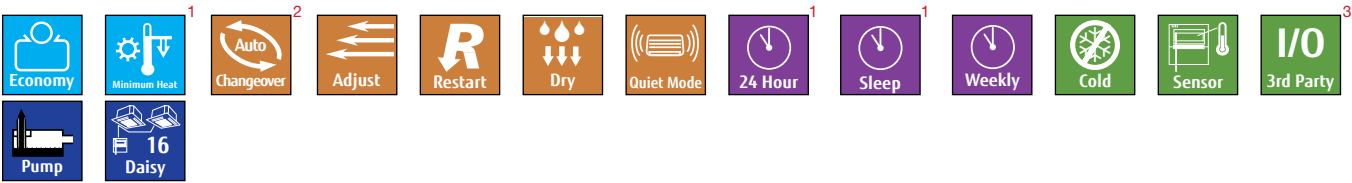
RIWH07AVFJ, RIWH09AVFJ, RIWH12AVFJ, RIWH15AVFJ, RIWH18AVFJ, RIWH24AVFJ

		RIWH07AVFJ	RIWH09AVFJ	RIWH12AVFJ	RIWH15AVFJ	RIWH18AVFJ	RIWH24AVFJ
Performance							
Nominal Cooling	BTU/HR	7,000	9,000	12,000	14,000	18,000	24,000
Nominal Heating	BTU/HR	8,100	10,200	13,500	16,300	20,000	27,000
Fan							
Air Circulation: Hi	CFM (m3/h)	Clg 330 (560) Htg 330 (560)	Clg 353 (600) Htg 353 (600)	Clg 388 (660) Htg 388 (660)	Clg 430 (730) Htg 430 (730)	Clg 542 (920) Htg 542 (920)	Clg 659 (1,120) Htg 647 (1,100)
Air Circulation: Medium	CFM (m3/h)	Clg 294 (500) Htg 294 (500)	Clg 306 (520) Htg 306 (520)	Clg 330 (560) Htg 330 (560)	Clg 353 (600) Htg 362(615)	Clg 436 (740) Htg 436 (740)	Clg 530 (900) Htg 530 (900)
Air Circulation: Low	CFM (m3/h)	Clg 253 (430) Htg 253 (430)	Clg 253 (430) Htg 253 (430)	Clg 265 (450) Htg 277 (470)	Clg 312 (530) Htg 330 (560)	Clg 365 (620) Htg 365 (620)	Clg 436 (740) Htg 436 (740)
Quiet	CFM (m3/h)	Clg 182 (310) Htg 194 (330)	Clg 182 (310) Htg 194 (330)	Clg 182 (310) Htg 194 (330)	Clg 212 (360) Htg 221 (375)	Clg 324 (550) Htg 324 (550)	Clg 365 (620) Htg 365 (620)
Fan Speed Stage		4+auto	4+auto	4+auto	4+auto	4+auto	4+auto
Sound							
Indoor Sound Level (Clg/Htg): Hi	dB(A)	36/36	37/37	40/40	42/42	43/44	49/48
Indoor Sound Level (Clg/Htg): Medium	dB(A)	32/32	33/33	36/36	38/38	37/37	42/42
Indoor Sound Level (Clg/Htg): Low	dB(A)	29/29	29/29	30/31	33/35	33/33	37/37
Quiet	dB(A)	21/22	21/22	21/22	25/27	31/31	33/33
Electrical							
Voltage / Frequency / Phase		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Current Rated: Cooling	Amps	0.13	0.15	0.19	0.25	0.32	0.53
Current Rated: Heating	Amps	0.13	0.15	0.19	0.25	0.32	0.53
Power Use Rated: Cooling	W	15	17	22	28	41	69
Power Use Rated: Heating	W	15	17	22	28	41	69
Size & Weight							
Net Weight	lbs. (kg)	19 (8.5)	19 (8.5)	19 (8.5)	19 (8.5)	31 (14)	31 (14)
Height	Inch	10-1/2	10-1/2	10-1/2	10-1/2	12-5/8	12-5/8
	mm	268	268	268	268	320	320
Width	Inch	33-1/16	33-1/16	33-1/16	33-1/16	39-1/4	39-1/4
	mm	840	840	840	840	998	998
Depth	Inch	8	8	8	8	9	9
	mm	203	203	203	203	228	228
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Additional Data							
Air Direction: Horizontal		Manual	Manual	Manual	Manual	Auto	Auto
Air Direction: Vertical		Auto	Auto	Auto	Auto	Auto	Auto
Primary Air Filter		Washable	Washable	Washable	Washable	Washable	Washable
Ion Deodorizing Filter		Disposable	Disposable	Disposable	Disposable	Disposable	Disposable
Apple Catechin Filter		Disposable	Disposable	Disposable	Disposable	Disposable	Disposable
Lineset Size	Inch	suc 3/8	suc 3/8	suc 3/8	suc 1/4 dis 1/2	suc 1/2	suc 5/8

The following combinations are ENERGY STAR® qualifying:

		ROMH18AFXZJ with (2) RIWH09AVFJ ROMH18AFXZJ with (1) RIWH07AVFJ + (1) RIWH12AVFJ ROMH18AFXZJ with (1) RIWH09AVFJ + (1) RIWH12AVFJ
		ROMH24AFXZJ with (2) RIWH07AVFJ + (1) RIWH09AVFJ

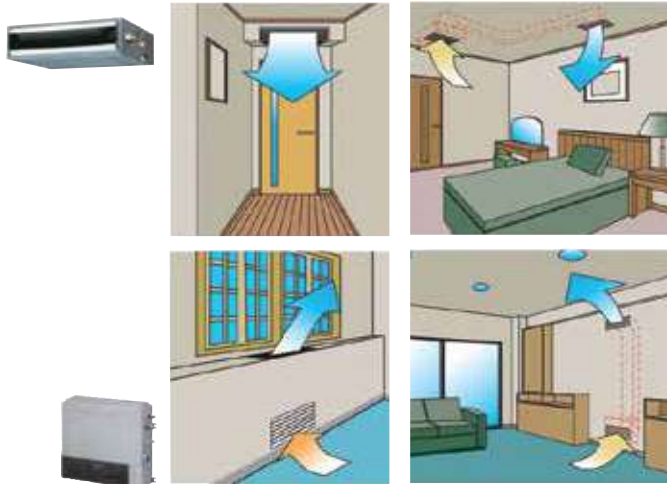
7, 9, 12, 18, 24,000 BTU/HR SLIM DUCT  
MULTI-ZONE INDOOR



<sup>1</sup>Available only with optional wireless remote control.  
<sup>2</sup>Auto Changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling. This feature is not recommended for systems with more than one indoor unit unless all indoor units have similar heating and cooling requirements and have similar temperature set points. If all indoor units have similar heating and cooling requirements and have similar temperature set points, auto changeover will work.  
<sup>3</sup>Available only with optional interface kit.

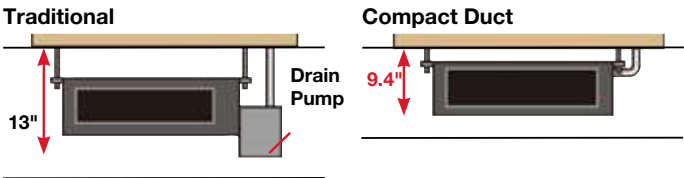
FLEXIBLE INSTALLATION

Horizontal or vertical, though internal drain pump will not operate when the unit is mounted in a vertical configuration.



SLIM DUCT

Adaptable when ceiling cavity is small and there is no slope for drain.



FIELD SUPPLIED FILTERS

Filters are sized to keep velocities and static pressure loss low. This will ensure sufficient static pressure is available for ductwork, fittings and supply and return grilles. Alternative filter sizes with equivalent face areas can be used.

	RIDH07AVFJ	RIDH09AVFJ	RIDH12AVFJ	RIDH18AVFJ	RIDH24AVFJ
CFM	323	353	383	554	785
Typical Filter Size	12 x 20	12 x 20	12 x 20	14 x 25	18 x 30
Velocity, FPM	194	212	230	228	209
Unit External SP, in. W.C.	0.36	0.36	0.36	0.36	0.20
1" Fiberglass Filter					
SP Loss, in. W.C.	0.04	0.04	0.05	0.04	0.04
Available Static Pressure	0.32	0.32	0.31	0.32	0.16
1" MERV 8 Pleated Filter					
SP Loss, in. W.C.	0.10	0.12	0.14	0.14	0.12
Available Static Pressure	0.26	0.24	0.22	0.22	0.08
2" MERV 8 Pleated Filter					
SP Loss, in. W.C.	0.06	0.07	0.08	0.08	0.07
Available Static Pressure	0.30	0.29	0.28	0.28	0.13

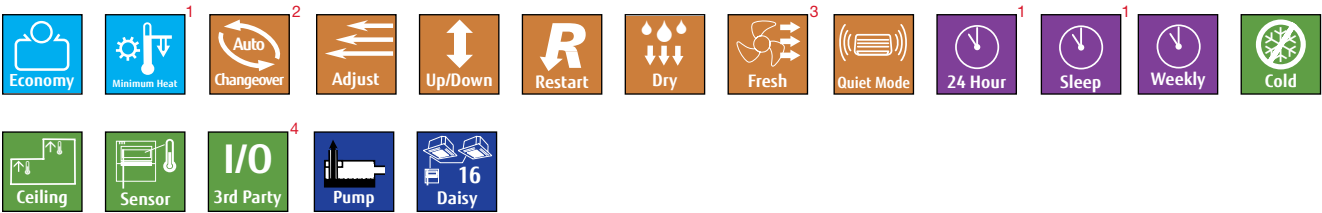
RIDH07AVFJ, RIDH09AVFJ, RIDH12AVFJ,  
RIDH18AVFJ, RIDH24AVFJ

		RIDH07AVFJ	RIDH09AVFJ	RIDH12AVFJ	RIDH18AVFJ	RIDH24AVFJ
Performance						
Nominal Cooling	BTU/HR	7,000	9,000	12,000	18,000	24,000
Nominal Heating	BTU/HR	8,100	10,200	13,500	20,000	27,000
Fan						
Air Circulation: Hi	CFM (m3/h)	323 (550)	353 (600)	383 (650)	554 (940)	783 (1,330)
Air Circulation: Medium	CFM (m3/h)	288 (490)	324 (550)	353 (600)	518 (880)	730 (1,240)
Air Circulation: Low	CFM (m3/h)	276 (470)	294 (500)	324 (550)	483 (820)	648 (1,100)
Quiet	CFM (m3/h)	259 (440)	265 (450)	283 (480)	442 (750)	607 (1,030)
Fan Speed Stage		4 + Auto	4 + Auto	4 + Auto	4 + Auto	4 + Auto
Sound						
Indoor Sound Level (Clg/Htg): Hi	dB(A)	28/28	28/28	29/29	32/33	33/35
Indoor Sound Level (Clg/Htg): Medium	dB(A)	26/26	27/26	28/28	31/32	32/34
Indoor Sound Level (Clg/Htg): Low	dB(A)	25/25	26/25	27/27	30/31	30/32
Quiet	dB(A)	24/24	25/24	26/24	29/29	29/29
Electrical						
Voltage / Frequency / Phase		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Static Pressure	W. C.	0 ~ 0.36	0 ~ 0.36	0 ~ 0.36	0 ~ 0.36	0 ~ 0.20
Current Rated: Cooling	Amps	0.30	0.30	0.35	0.44	0.66
Current Rated: Heating	Amps	0.30	0.30	0.35	0.44	0.66
Power Use Rated: Cooling	W	33	49	58	73	111
Power Use Rated: Heating	W	33	49	58	73	111
Size & Weight						
Net Weight	lbs. (kg)	37 (17)	41 (19)	41 (19)	50 (23)	59 (27)
Height	Inch	7-25/32	7-25/32	7-25/32	7-25/32	7-25/32
	mm	198	198	198	198	198
Width	Inch	27-9/16	27-9/16	27-9/16	35-7/16	43-5/16
	mm	700	700	700	900	1,100
Depth	Inch	24-13/32	24-13/32	24-13/32	24-13/32	24-13/32
	mm	620	620	620	620	620
Supply Duct Flange Height	Inch	5-15/16	5-15/16	5-15/16	5-15/16	5-15/16
	mm	151	151	151	151	151
Supply Duct Flange Dimensions: Width	Inch	25-19/32	25-19/32	25-19/32	33-15/32	41-11/32
	mm	650	650	650	850	1,050
Supply Duct Flange Dimensions: Depth	Inch	3/4	3/4	3/4	3/4	3/4
	mm	19	19	19	19	19
Return Duct Dimensions: Height	Inch	6	6	6	6	6
	mm	152	152	152	152	152
Return Duct Dimensions: Width	Inch	22	22	22	30	37-3/4
	mm	559	559	559	762	959
Return Duct Dimensions: Depth	Inch	3/4 (Flat)	3/4 (Flat)	3/4 (Flat)	3/4 (Flat)	3/4 (Flat)
	mm	19 (Flat)	19 (Flat)	19 (Flat)	19 (Flat)	19 (Flat)
Refrigerant		R410A	R410A	R410A	R410A	R410A
Additional Data						
Air Filter		Washable	Washable	Washable	Washable	Washable
Lineset Size	Inch	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4	suc 5/8 dis 1/4



7, 9, 12, 18,000 BTU/HR COMPACT CASSETTES

MULTI-ZONE INDOOR



<sup>1</sup>Available only with optional wireless remote control.

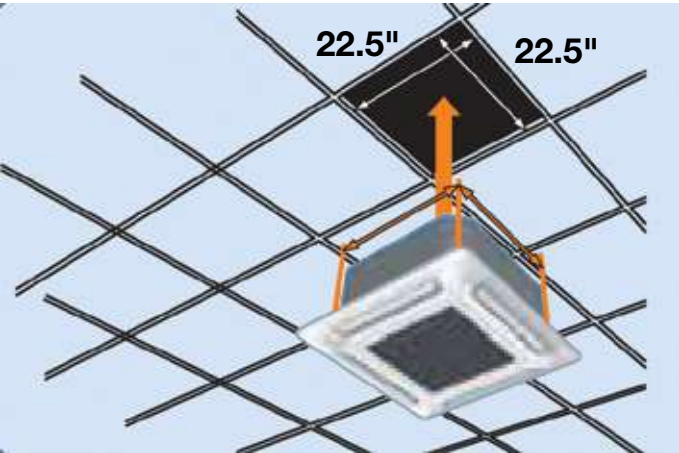
<sup>2</sup>Auto Changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling. This feature is not recommended for systems with more than one indoor unit unless all indoor units have similar heating and cooling requirements and have similar temperature set points. If all indoor units have similar heating and cooling requirements and have similar temperature set points, auto changeover will work.

<sup>3</sup>Requires Rheem's Optional Fresh Air Kit part #RXVXAA. Allows for a 4-inch flex duct connection. Requires a field supplied duct booster fan capable of 60 CFM at .2" W.C. or 90 CFM at .4" W.C. For fan static pressure requirements, see installation manual. Add hood, filter and duct losses for fan total static pressure requirements. Will add 4" to the height of the indoor unit.

<sup>4</sup>Available only with optional Interface kit. Operation monitoring and On / Off control only.

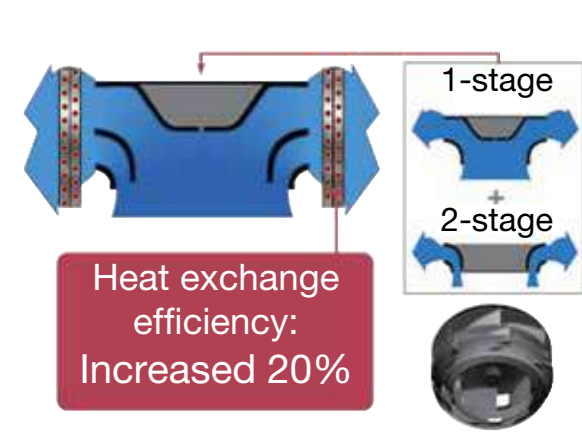
EASY INSTALLATION

Fits into a standard ceiling tile. Dimensions of outer grille are 27-9/16" x 27-9/16" and may overlap adjacent tiles.

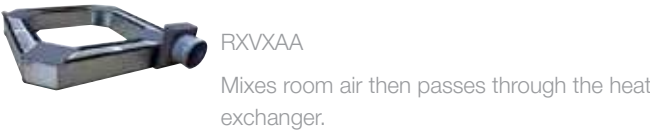


2-STAGE TURBO FAN

Air distribution is evenly spread across the heat exchanger by the 2-stage turbo fan which produces two separate airflow streams.



FRESH AIR KITS



RXVXAA  
Mixes room air then passes through the heat exchanger.

RICH07AVFJ, RICH09AVFJ, RICH12AVFJ, RICH18AVFJ

		RICH07AVFJ	RICH09AVFJ	RICH12AVFJ	RICH18AVFJ
Performance					
Nominal Cooling	BTU/HR	7,000	9,000	12,000	18,000
Nominal Heating	BTU/HR	8,100	10,200	13,500	20,000
Fan					
Air Circulation: Hi	CFM (m3/h)	318 (540) Clg or Htg	318 (540) Clg or Htg	359 (610) Clg or Htg	441 (750) Clg 471 (800) Htg
Air Circulation: Medium	CFM (m3/h)	288 (490) Clg or Htg	288 (490) Clg or Htg	312 (530) Clg or Htg	359 (610) Clg 418 (710) Htg
Air Circulation: Low	CFM (m3/h)	259 (440) Clg or Htg	259 (440) Clg or Htg	277 (470) Clg or Htg	306 (520) Clg 353 (600) Htg
Quiet	CFM (m3/h)	230 (390) Clg or Htg	230 (390) Clg or Htg	241 (410) Clg or Htg	241 (410) Clg 265 (450) Htg
Fan Speed Stage		4+auto	4+auto	4+auto	4+auto
Sound					
Indoor Sound Level (Clg/Htg): Hi	dB(A)	33/34	33/34	37/37	42/44
Indoor Sound Level (Clg/Htg): Medium	dB(A)	31/32	31/32	33/33	37/40
Indoor Sound Level (Clg/Htg): Low	dB(A)	29/29	29/29	31/31	33/37
Quiet	dB(A)	27/27	27/27	28/28	29/30
Electrical					
Voltage / Frequency / Phase		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Current Rated: Cooling	Amps	0.15	0.15	0.19	0.30
Current Rated: Heating	Amps	0.15	0.15	0.19	0.30
Power Use Rated / Max: Cooling	(kw)	18	18	23	39
Power Use Rated / Max: Heating	(kw)	18	18	23	39
Size & Weight					
Net Weight	lbs. (kg)	33 (15)	33 (15)	33 (15)	33 (15)
Height	Inch	9-11/16	9-11/16	9-11/16	9-11/16
	mm	245	245	245	245
Width	Inch	22-7/16	22-7/16	22-7/16	22-7/16
	mm	570	570	570	570
Depth	Inch	22-7/16	22-7/16	22-7/16	22-7/16
	mm	570	570	570	570
Refrigerant		R410A	R410A	R410A	R410A
Additional Data					
Air Direction: Vertical		Automatic	Automatic	Automatic	Automatic
Air Filter		Washable	Washable	Washable	Washable
Front Grille		UTG-CCGF*	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*
Grille Dim: Height	Inch (mm)	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)
Grille Dim: Width	Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Grille Dim: Depth	Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Lineset Size	Inch	suc 3/8	dis 1/4	suc 3/8	dis 1/4
		suc 3/8	dis 1/4	suc 3/8	dis 1/4

\* Compact Cassette Grille RXCCGF sold separately. Must order one with each compact cassette.

9, 12, 15,000 BTU/HR FLOOR MOUNT

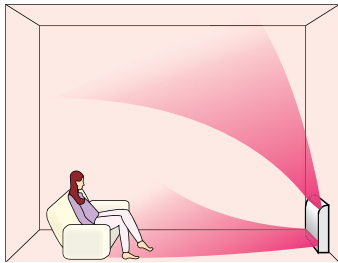
MULTI-ZONE INDOOR



<sup>1</sup>Available with optional wired remote control.  
<sup>2</sup>Available only with optional Interface kit. Operation monitoring and On / Off control only.

2-FAN AND WIDE AIRFLOW

Having both upper and lower airflow quickly warms or cools the entire room. Floor mount can be set in “Upward Airflow Only” when occupants wish not to have feet warmed or cooled.



- Cooling**

Fig. 1

Fig. 2

1. Upon startup, both top and bottom louvers open.

2. As the room temperature nears the setpoint, only the top louver stays open to help prevent cold air from falling.
- Heating**

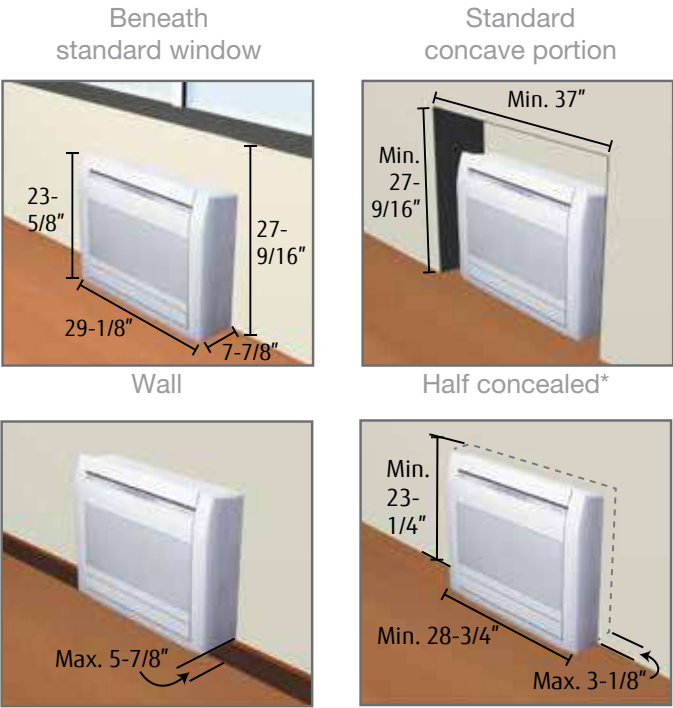
Fig. 1

Fig. 2

1. Upon startup, both top and bottom louvers open.

2. Closer to setpoint, only the top louver stays open to help prevent cold drafts from windows.

FLEXIBLE AND EASY INSTALLATION



\*Field supplied insulation required

RIFH09AVFJ, RIFH12AVFJ, RIFH15AVFJ

		RIFH09AVFJ	RIFH12AVFJ	RIFH15AVFJ
Performance				
Nominal Cooling	BTU/HR	9,000	12,000	14,200
Nominal Heating	BTU/HR	12,000	16,000	18,000
Fan				
Air Circulation: Hi	CFM (m3/h)	312 (530)	353 (600)	383 (650)
Air Circulation: Medium	CFM (m3/h)	259 (440)	288 (490)	306 (520)
Air Circulation: Low	CFM (m3/h)	212 (360)	224 (380)	235 (400)
Quiet	CFM (m3/h)	159 (270)	159 (270)	159 (270)
Fan Speed Stage		4+Auto	4+Auto	4+Auto
Sound				
Indoor Sound Level (Clg/Htg): Hi	dB(A)	39/39	42/42	44/44
Indoor Sound Level (Clg/Htg): Medium	dB(A)	34/34	36/38	38/39
Indoor Sound Level (Clg/Htg): Low	dB(A)	28/28	30/32	31/33
Quiet	dB(A)	22/22	22/22	22/22
Electrical				
Voltage / Frequency / Phase		208-230/60/1	208-230/60/1	208-230/60/1
Current Rated: Cooling	Amps	0.15	0.18	0.20
Current Rated: Heating	Amps	0.15	0.18	0.20
Power Use Rated: Cooling	(kw)	16	18	23
Power Use Rated: Heating	(kw)	16	18	23
Size & Weight				
Net Weight	lbs. (kg)	31 (14)	31 (14)	31 (14)
Height	Inch	23-5/8	23-5/8	23-5/8
	mm	600	600	600
Width	Inch	29-1/8	29-1/8	29-1/8
	mm	740	740	740
Depth	Inch	7-7/8	7-7/8	7-7/8
	mm	200	200	200
Refrigerant		R410A	R410A	R410A
Additional Data				
Air Direction: Horizontal		Manual	Manual	Manual
Air Direction: Vertical		Auto	Auto	Auto
Apple Catechin Filter		Washable	Washable	Washable
Ion Deodorizing Filter		Yes	Yes	Yes
Connection Method		Yes	Yes	Yes
Lineset Size	Inch	Suc. 3/8    Dis. 1/4	Suc. 3/8    Dis. 1/4	Suc. 1/2    Dis. 1/4



18, 24, 36, 45,000 BTU/HR MULTI-ZONE OUTDOOR UNITS

ROMH18AFXZJ, ROMH24AFXZJ, ROMH36AFXZJ, ROMH45AFXZJ



Outdoor unit

Contractors can select either an 18, 24, 36 or 45,000 BTU/HR outdoor unit combined with wall mounted, slim duct, compact cassette or floor mount type indoor units. Mix-and-match flexibility of evaporator type and capacity allows you to choose the indoor unit that best fits the application, whether it be hidden or showcased. These systems are ideal for nursing homes, doctor's offices, condominiums, apartments and residences - any place where individual cooling or heating is needed.

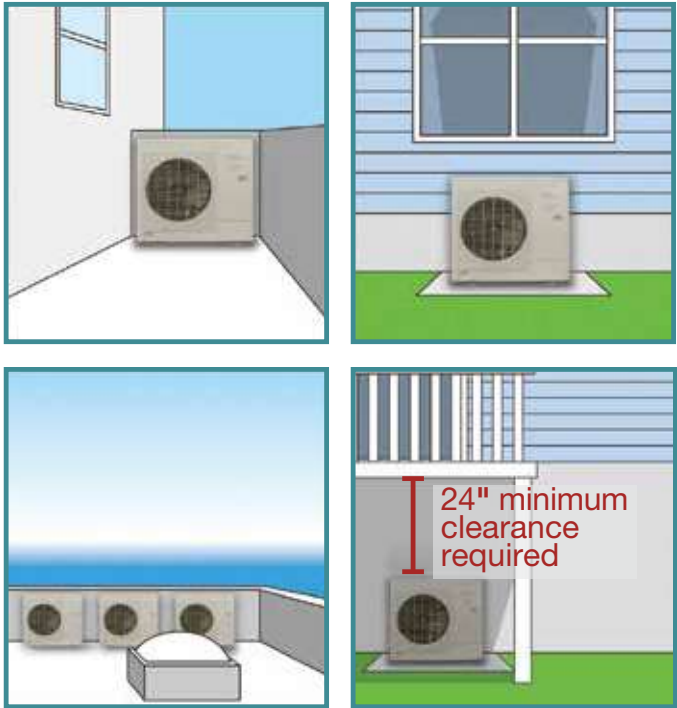
DC TWIN ROTARY COMPRESSOR

A high performance, low noise, large capacity DC twin rotary compressor is used.



COMPACT SIZE

The compact size of the outdoor units allows for many installation opportunities.



NOMINAL CAPACITIES, SEER AND HSPF RATINGS

Data below is based on AHRI 210/240 non-ducted wall mounted models. Yellow rows represent systems that are ENERGY STAR® qualified.



Model	Indoor Unit		Cooling Capacity BTU/HR	EER	SEER	Heating Rated Capacity BTU/HR		Heating Maximum Capacity BTU/HR		COP	HSPF
	Type	Combination				47°F	17°F	17°F	5°F		
ROMH 18AFXZJ	Non-Ducted	9+9	18,000	12.5	18.0	22,000	13,900	16,300	13,900	3.44	9.3
	Ducted	9+9	18,000	12.1	16.0	22,000	13,900	16,300	13,900	3.52	9.0
	Mixed	9+9	18,000	12.3	17.0	22,000	13,900	16,300	13,900	3.48	9.2
	Specific	RIWH07+RIWH12 & RIWH09+RIWH12	18,000	12.5	18.0	22,000	13,900	16,300	13,900	3.67	9.0
ROMH 24AFXZJ	Non-Ducted	9+7+7	22,000	12.5	18.0	24,000	14,100	19,800	16,300	4.04	9.5
	Ducted	9+7+7	22,000	10.6	15.5	24,000	14,100	19,800	16,300	3.42	9.0
	Mixed	9+7+7	22,000	11.6	16.8	24,000	14,100	19,800	16,300	3.74	9.3
ROMH 36AFXZJ	Non-Ducted	9+9+9+9	35,200	10.0	18.0	24,000	22,000	32,500	25,400	3.56	9.4
	Ducted	9+9+9+9	35,200	9.0	16.0	24,000	22,000	32,500	25,400	3.32	8.7
	Mixed	9+9+9+9	35,200	9.5	17.0	24,000	22,000	32,500	25,400	3.44	9.1
ROMH 45AFXZJ	Non-Ducted	9+9+9+9+9	45,000	10.5	19.7	48,000	28,200	36,900	31,500	3.60	10.3
	Ducted	9+9+9+9+9	45,000	9.8	17.7	46,000	27,800	36,900	31,500	3.46	9.3
	Mixed	9+9+9+9+9	45,000	10.2	18.7	47,000	28,000	36,900	31,500	3.53	9.8

		ROMH18AFXZJ RIHW09+RIWH099	ROMH24AFXZJ RIWH09+ RIWH07+RIWH07	ROMH36AFXZJ RIWH09 x 4	ROMH45AFXZJ RIWH09 x5
Performance					
Connectable Indoor Units		2	2 to 3	2* to 4	2 to 5
Connectable Unit Capacity Class		BTU/HR	14 to 21,000 <sup>1</sup>	14 to 27,000 <sup>1</sup>	27 to 39,000 <sup>1</sup>
Rated Capacity Cooling / Heating		BTU/HR	18,000 / 22,000	22,000 / 24,000	35,200 / 36,400
Cooling Operating Range		°F (°C)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)
Heating Operating Range		°F (°C)	5~75 (-15~24)	5~75 (-15~24)	5~75 (-15~24)
Electrical					
Rated Input Power Clg/Htg		kW	1.44/1.87	1.76/1.73	3.52/3.00
Voltage / Frequency / Phase			208-230/60/1	208-230/60/1	208-230/60/1
Maximum Total Current		Amps	10.0	13.7	20.3
Minimum Circuit Ampacity		Amps	12.1	16.7	24.6
Maximum Circuit Breaker		Amps	15	20	30
Fan: Type x Quantity			Propeller x 1	Propeller x 1	Propeller x 1
Sound Pressure Level Cooling		dB(A)	49	51	53
Sound Pressure Level Heating		dB(A)	49	52	55
Lineset Requirements					
Minimum Lineset Length Each		ft(m)	16 (5)	16 (5)	16 (5)
Maximum Lineset Length Each		ft(m)	82 (25)	82 (25)	82 (25)
Minimum Lineset Length Total		ft(m)	49 (15)	49 (15)	66 (20)
Maximum Lineset Length Total		ft(m)	164 (50)	164 (50)	230 (70)
Pre-Charge Length Total		ft(m)	98 (30)	98 (30)	164 (50)
Maximum Lineset Height Difference Btwn Outdoor Unit & Furthest Indoor Unit		ft(m)	49 (15)	49 (15)	49 (15)
Maximum Lineset Height Difference Btwn Indoor Units		ft(m)	33 (10)	33 (10)	33 (10)
Lineset Diameter		Inch	Liq. 1/4 x 2 Suc. 3/8 x 2	Liq. 1/4 x 3 Suc. 1/2 x 1, 3/8 x 2	Liq. 1/4 x 4 Suc. 1/2 x 1, 3/8 x 3
Size & Weight					
Net Weight		lbs. (kg)	119 (54)	124 (56)	149 (68)
Height	Inch		27-9/16	27-9/16	32-11/16
	mm		700	700	830
Width	Inch		35-7/16	35-7/16	35-7/16
	mm		900	900	900
Depth	Inch		13	13	13
	mm		330	330	330
Refrigerant			R410A	R410A	R410A

\*18+18 is the only 2 indoor unit (RIWH, RIDH or RICH) combination and requires K9FZ1818  
<sup>1</sup>See table for allowed combinations within this connectable capacity range.

ALLOWABLE COMBINATIONS

Select either an 18, 24, 36 or 45 outdoor unit combined with wall mounted, slim duct, compact cassette or floor mount type indoor units. Mix-and-match flexibility of evaporator type and capacity allows you to choose the indoor unit that best fits the application, whether it be hidden or showcased.

BTU/HR Capacity	7,000	9,000	12,000	15,000	18,000	24,000		= Allowed "Connectable Capacity" combinations between 100 and 130%
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2 INDOOR UNITS	ROMH18AFXZJ							
	7	7				14		
	7	9				16		
	7	12				19		
	9	9				18		
	9	12				21		
3 INDOOR UNITS MAX	ROMH24AFXZJ							
	7	7	-			14		
	7	9	-			16		
	7	12	-			19		
	7	15				22		
	7	18				25		
	9	9	-			18		
	9	12				21		
	9	15				24		
	9	18				27		
	12	12				24		
	12	15				27		
4 INDOOR UNITS MAX	7	7	7			21		
	7	7	9			23		
	7	7	12			26		
	7	9	9			25		
	9	9	9			27		
	ROMH36AFXZJ							
	18*	18*				36		
	7	7	15	-		29		
	7	7	18	-		32		
	7	7	24			38		
	7	9	12	-		28		
	7	9	15	-		31		
	7	9	18			34		
	7	12	12	-		31		
	7	12	15			34		
	7	12	18			37		
	9	9	9	-		27		
	9	9	12	-		30		
5 INDOOR UNITS MAX	9	9	15			33		
	9	9	18			36		
	9	12	12			33		
	9	12	15			36		
	9	12	18			39		
	12	12	12			36		
	12	12	15			39		
	7	7	7	7		28		
	7	7	7	9		30		
	7	7	7	12		33		
	7	7	7	15		36		
	7	7	7	18^		39		
	ROMH45AFXZJ							
	18	18				36		
	12	24				36		
	15	24				39		
	18	24				42		
	24	24				48		
	6 INDOOR UNITS MAX	7	7	7	24		38	
		7	9	18			34	
		7	9	24			40	
		7	12	18			37	
		7	12	24			43	
		7	15	15			37	
7		15	18			40		
7		15	24			46		
7		18	18			43		
7		18	24			49		
9		9	18			36		
9		9	24			42		
9		12	15			36		
9		12	18			39		
9		12	24			45		
9		15	15			39		
9		15	18			42		
9		15	24			48		
9		18	18			45		
9		18	24			51		
12		12	12			36		
12		12	15			39		
12		12	18			42		
12		15	15			42		
12		15	18			45		
12		15	24			51		
12		18	18			48		
12		18	24			54		
15		15	15			45		
15		15	18			48		
15	15	24			54			
15	18	18			51			
18	18	18			54			
7 INDOOR UNITS MAX	7	7	7	15		36		
	7	7	7	18		39		
	7	7	7	24		45		
	7	7	9	12		35		
	7	7	9	15		38		
	7	7	9	18		41		
	7	7	9	24		47		
	7	7	12	12		38		
	7	7	12	15		41		
	7	7	12	18		44		
	7	7	12	24		50		
	7	7	15	15		44		
	7	7	15	18		47		
	7	7	15	24		53		
	7	7	18	18		50		
	7	9	9	9		34		
	7	9	9	12		37		
	7	9	9	15		40		
	7	9	9	18		43		
	7	9	9	24		49		
	7	9	12	12		40		
	7	9	12	15		43		
	7	9	12	18		46		
	7	9	12	24		52		
	7	9	15	15		46		
	7	9	15	18		49		
	7	9	18	18		52		
	7	12	12	12		43		
	7	12	12	15		46		
	7	12	12	18		49		
	7	12	15	15		49		
	7	12	15	18		52		
	7	15	15	15		52		
	9	9	9	9		36		
	9	9	9	12		39		
	9	9	9	15		42		
9	9	9	18		45			
9	9	9	24		51			
9	9	12	12		42			
9	9	12	15		45			
9	9	12	18		48			
9	9	12	24		54			
9	9	15	15		48			
9	9	15	18		51			
9	9	18	18		54			
9	12	12	12		45			
9	12	12	15		48			
9	12	12	18		51			
9	12	15	15		54			
9	12	15	18		57			
9	12	18	18		60			
9	12	18	24		66			
9	15	15	15		63			
9	15	15	18		66			
9	15	18	18		69			
9	15	18	24		75			
9	18	18	18		72			
9	18	18	24		78			
9	18	24	24		84			
9	18	24	36		90			
9	24	24	24		84			
9	24	24	36		90			
9	24	36	36		96			
9	24	36	48		108			
9	36	36	36		108			
9	36	36	48		114			
9	36	48	48		120			
9	36	48	60		132			
9	48	48	48		144			
9	48	48	60		150			
9	48	60	60		156			
9	48	60	72		168			
9	60	60	60		180			
9	60	60	72		186			
9	60	72	72		192			
9	60	72	84		204			
9	60	84	84		210			
9	60	84	96		216			
9	60	96	96		224			
9	60	96	108		230			
9	60	108	108		236			
9	60	108	120		242			
9	60	120	120		248			
9	60	120	132		254			
9	60	132	132		260			
9	60	132	144		266			
9	60	144	144		272			
9	60	144	156		278			
9	60	156	156		284			
9	60	156	168		290			
9	60	168	168		296			
9	60	168	180		302			
9	60	180	180		308			
9	60	180	192		314			
9	60	192	192		320			
9	60	192	204		326			
9	60	204	204		332			
9	60	204	216		338			
9	60	216	216		344			
9	60	216	228		350			
9	60	228	228		356			
9	60	228	240		362			
9	60	240	240		368			
9	60	240	252		374			
9	60	252	252		380			
9	60	252	264		386			
9	60	264	264		392			
9	60	264	276		398			
9	60	276	276		404			
9	60	276	288		410			
9	60	288	288		416			
9	60	288	300		422			
9	60	300	300		428			
9	60	300	312		434			
9	60	312	312		440			
9	60	312	324		446			
9	60	324	324		452			
9	60	324	336		458			
9	60	336	336		464			
9	60	336	348		470			
9	60	348	348		476			
9	60	348	360		482			
9	60	360	360		488			
9	60	360	372		494			
9	60	372	372		500			
9	60	372	384		506			
9	60	384	384		512			
9	60	384	396		518			
9	60	396	396		524			
9	60	396	408		530			
9	60	408	408		536			
9	60	408	420		542			
9	60	420	420		548			
9	60	420	432		554			
9	60	432	432		560			
9	60	432	444		566			
9	60	444	444		572			
9	60	444	456		578			
9	60	456	456		584			
9	60	456	468		590			
9	60	468	468		596			
9	60	468	480		602			
9	60	480	480		608			
9	60	480	492		614			
9	60	492	492		620			
9	60	492	504		626			
9	60	504	504		632			
9	60	504	516		638			
9	60	516	516		644			
9	60	516	528		650			
9	60	528	528		656			
9	60	528	540		662			
9	60	540	540		668			
9	60	540	552		674			
9	60	552	552		680			
9	60	552	564		686			
9	60	564	564		692			
9	60	564	576		698			
9	60	576	576		704			
9	60	576	588		710			
9	60	588	588		716			
9	60	588	600		722			
9	60	600	600		728			
9	60	600	612		734			
9	60	612	612		740			
9	60	612	624		746			
9	60	624	624		752			
9	60	624	636		758			
9	60	636	636		764			
9	60	636	648		770			
9	60	648	648		776			
9	60	648	660		782			
9	60	660	660		788			
9	60	660	672		794			
9	60	672	672		800			
9	60	672	684		806			
9	60	684	684		812			
9	60	684	696		818			
9	60	696	696		824			
9	60	696	708		830			
9	60	708	708		836			
9	60	708	720		842			
9	60	720	720					





LINE SET SIZES AND LENGTHS

SINGLE-ZONE SYSTEMS																			
	09AVSA	09AFFJ	09AFFHJ	09AFWJ	09AHWJ	09AHHJ	12AVSA	12AFFJ	12AFFHJ	12AFWJ	12AHWJ	12AHHJ	15AFFJ	15AFFHJ	15AHWJ	15AHHJ	18ASJ	18AXFWJ	18AXHJ
1/4" x 3/8"	●	●	●	●	●	●	●	●	●	●	●	●							
1/4" x 1/2"													●	●	●	●	●		
1/4" x 5/8"																			
3/8" x 1/2"																			
3/8" x 5/8"																		●	●
Total System																			
Max. Combined Pipe Length ft (m)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	165 (50)	165 (50)
Min. Combined Pipe Length ft (m)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)	16 (5)	16 (5)

While these systems share indoor units, different line sizes are required.

MULTI / FLEX ZONE MODELS														
	RIWH07AVFJ	RIWH09AVFJ	RIWH12AVFJ	RIWH15AVFJ	RIWH18AVFJ	RIWH24AVFJ	RIFH09AVFJ	RIFH12AVFJ	RIFH15AVFJ	RIDH07AVFJ	RIDH09AVFJ	RIDH12AVFJ	RIDH18AVFJ	RIDH24AVFJ
1/4" x 3/8"	●	●	●				●	●		●	●	●		●
1/4" x 1/2"				●	●				●				●	
1/4" x 5/8"						●							●	
3/8" x 1/2"														
3/8" x 5/8"														
Total System														
Max. Combined Pipe Length ft (m)														165 (50)
Min. Combined Pipe Length ft (m)														49 (15)
Each Indoor Unit	Minimum and maximum pipe lengths for multi-zone units are found on page 49.													

\*18+18 is the only 2 indoor unit combination allowed for ROMH36AFXZJ and requires kit RXK9FZ1818.

While these systems share indoor units, different line sizes are required.

RHEEM® MODEL NOMENCLATURE

Mini-Split Outdoor Unit									
R	O	S	H	18	A	F	W	J	
Brand	Product Category	Unit Type	Functions	Capacity BTU/HR	Major System Series	System Type	Type (2)	Voltage	Revision Series (Option)
R: Rheem	O: Mini-Split Outdoor Unit	S: Single Zone ODU M: Multi-Zone ODU	H: Heat Pump	09 - 9,000 12 - 12,000 15 - 15,000 18 - 18,000 24 - 24,000 30 - 30,000 36 - 36,000 45 - 45,000	A: 1 <sup>st</sup> Series	V: Inverter X: Extended Line Set H: High Efficiency F: Flex Tech (when followed by a W or Z)	H= High Heating Z: Zone W: Wall Mount only F: Floor Mount C: Compact Cassette or Slim Duct S: Single-Zone	J: 208/230V/1Ph/60Hz A: 115V/1Ph/60Hz	Blank: None
Mini-Split Indoor Unit									
R	I	W	H	12	A	H	W	J	
Brand	Product Category	Unit Type	Functions	Capacity BTU/HR	Major System Series	System Type	Type (2)	Voltage	Minor Revision Series (Option)
R: Rheem	I: Mini-Split Indoor Unit	W: Wall Mount F: Floor Mount D: Slim Duct C: Compact Cassette	H: Heat Pump	07 - 7,000 09 - 9,000 12 - 12,000 15 - 15,000 18 - 18,000 24 - 24,000 30 - 30,000 36 - 36,000	A: 1 <sup>st</sup> Series	V: Inverter X: Extended Line Set H: High Efficiency F: Flex Tech (when followed by a W or Z)	H= High Heating Z: Zone W: Wall Mount only F: Floor Mount C: Compact Cassette or Slim Duct S: Single-Zone	J: 208/230V/1Ph/60Hz A: 115V/1Ph/60Hz	Blank: None

THINGS TO KNOW WHEN YOU BUY A RHEEM® MINI-SPLIT SYSTEM

COMPLETE MINI-SPLIT SYSTEM LIMITED WARRANTY

Standard Limited Warranty

- 5-Year Parts, 7-Year Compressor Warranty

Standard Limited Warranty Extension:

- The Standard Limited Warranty covering parts and the compressor will be extended to a period of ten (10) years under specific conditions and online registration is required\* (registermyunit.com) For Complete details, contact your local Contractor, or go to Rheem.com for a copy of the product warranty certificate.

THINGS TO KNOW WHEN YOU INSTALL A RHEEM MINI-SPLIT SYSTEM

Warning

Always use a licensed installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion. Use only parts and accessories supplied or specified by Rheem. Ask a licensed contractor to install parts and accessories. Use of unauthorized or improper installation of parts and accessories can result in injury or property damage. Read the owner's operation manual carefully before using this product. The owners operation manual provides important safety instructions and warnings which should be followed closely. For any questions or concerns, please contact Rheem. Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit [www.energystar.gov](http://www.energystar.gov).

Heat Pump Disclaimer

In most climates a heat pump will handle all of your heating needs. However, this system sometimes requires some other additional source of heat to satisfy heating requirements in the coldest environments. All of the Rheem Mini-Split Heat Pumps use inverter technology and as such offer a wider operating range and more heat capacity than a standard heat pump but will not provide adequate heating if improperly sized or operated outside of its operating range. Specifications vary by model; please consult your contractor before choosing a heat pump as your only source of heat. Systems will maintain temperature up to +/-4 degrees relative to set temperature. To increase energy efficiency on multi-type systems, you should turn off the evaporators when heating or cooling is not needed.

CERTIFICATIONS

ISO

Certification means that Rheem has passed a series of independent audits proving it maintains a modern quality control system to consistently provide quality products. These audits assess all a company's systems that affect quality. All Rheem manufacturing facilities have achieved the prestigious ISO 2001 Certification. Rheem was the first HVAC manufacturer in North America to earn this distinction in all its manufacturing facilities



AHRI Energy Guide® Program (U.S.)

To view AHRI numbers or Energy Guide labels, please go to [www.ahridirectory.org](http://www.ahridirectory.org).

ASTM

Our outdoor units shall withstand 1,000 hours of salt spray tested per procedure ASTM B117.





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