



Ruud® Mini-Split Heat Pump Systems

ANY ROOM, ANY SEASON

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

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

Savings
up to
25%*
on utility bills



A Year-Round Solution

Pioneering 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.



RELY ON RUUD.™

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

QUIETLY PIONEERING ENERGY-EFFICIENT HOME COMFORT

TABLE OF CONTENTS

FEATURES

Mini-Splits Defined	4
Individual Zoning	5
Comfort Solution	8
Energy Efficient.....	9
Comfort & Convenience.....	10
Applications	11
Feature Explanation	13

MODEL LINEUP

Indoor and Outdoor Model Table	16
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SINGLE-ZONE MINI-SPLITS

Wall Mount	18
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MULTI-ZONE MINI-SPLITS

Overview	36
Indoor Units - Wall Mounts.....	40
Outdoor Units.....	48
Allowable Combinations	50

ACCESSORIES

Descriptions	51
Compatibility Chart.....	53

RESOURCES

Line Set Length Chart.....	54
Model Nomenclature	54

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

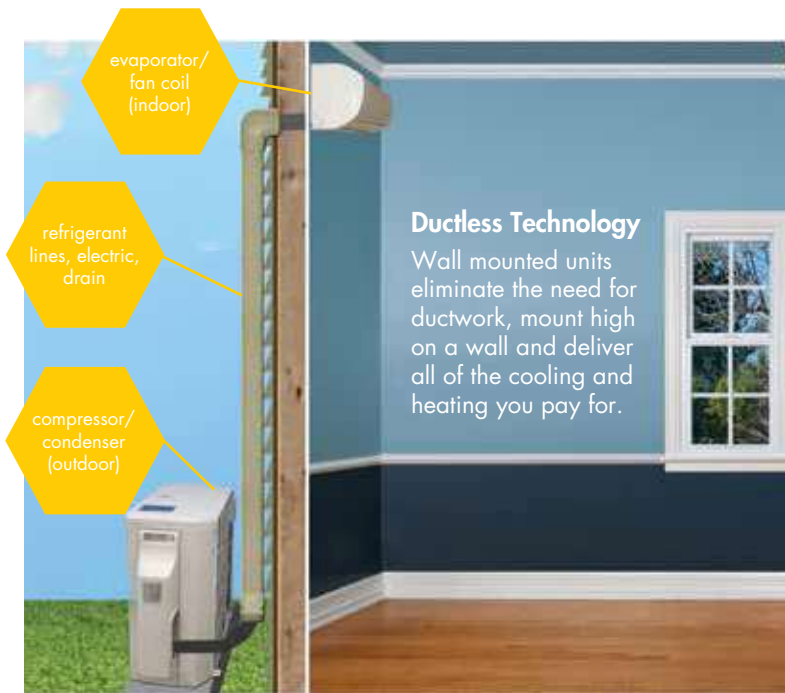
WHAT IS A MINI-SPLIT?

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, Ruud® 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

Ruud 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. Ruud 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

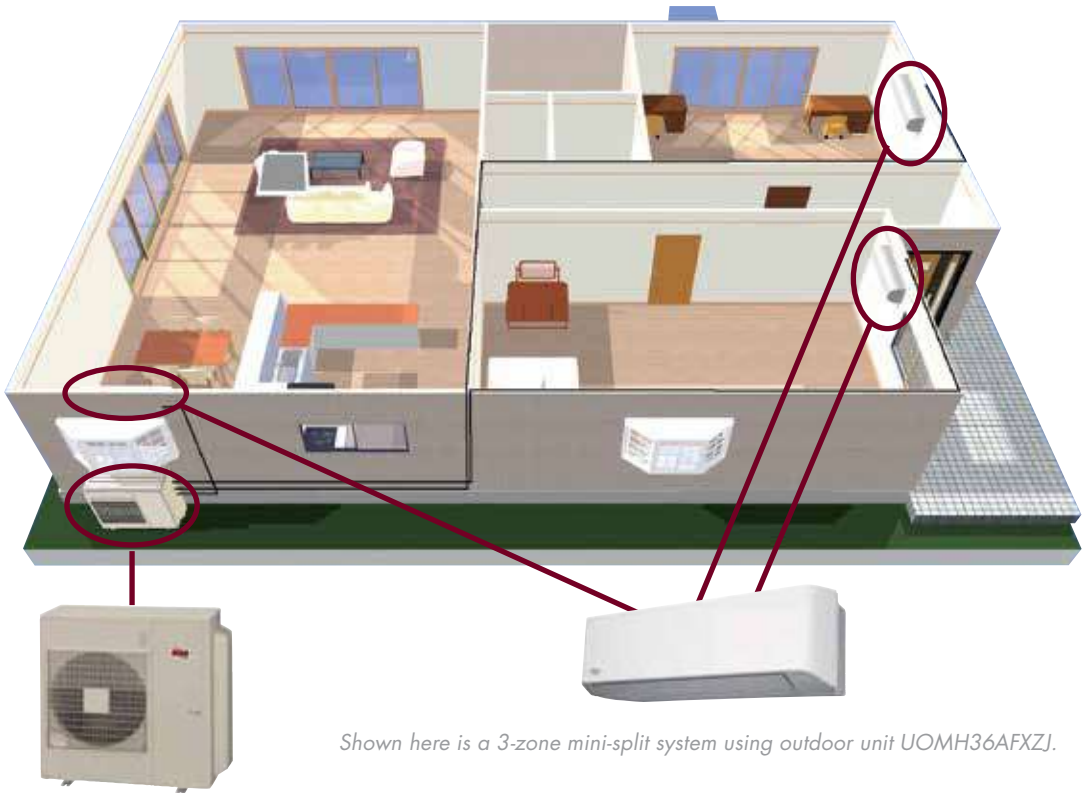
WALL MOUNTED

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



MULTI
18, 24, 36,
45,000 BTUs

**QUIET
EFFICIENT
EASY**





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
 - Fewer 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



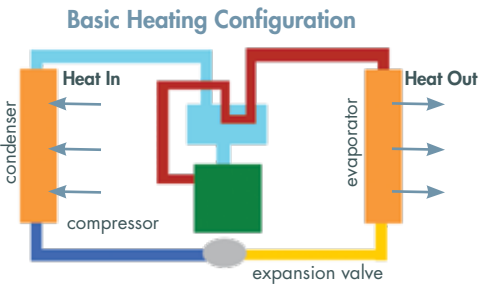
COMPACT CASSETTE

- 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



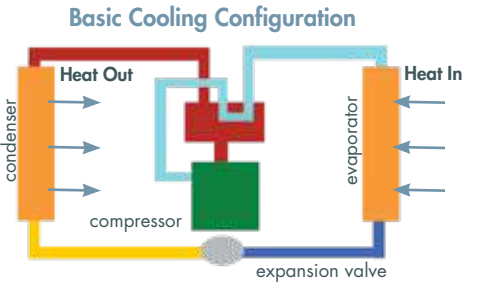
HEAT PUMPS PROVIDE HEAT WHEN IT'S CHILLY

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.

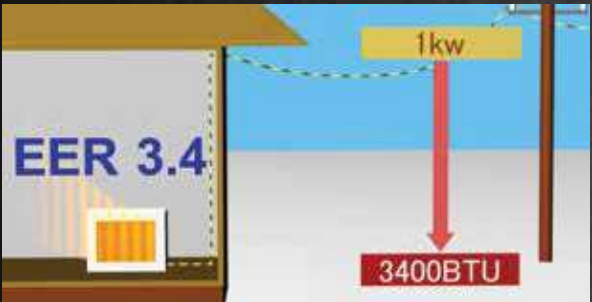


HEAT PUMPS PROVIDE COOLING WHEN IT'S WARM

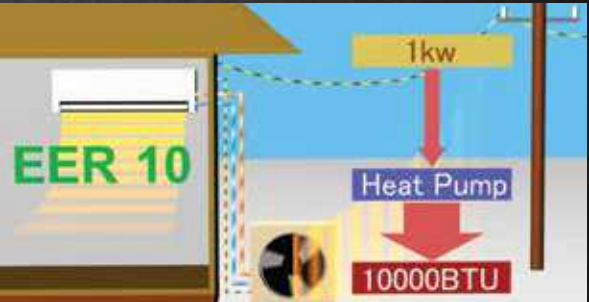
Come spring and summer, simply reverse the process by putting the same system into "cooling mode" to transfer heat from indoors to the outside.



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

Ruud® 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 Ruud HVAC system, these 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

Ruud 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

Multizone 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.

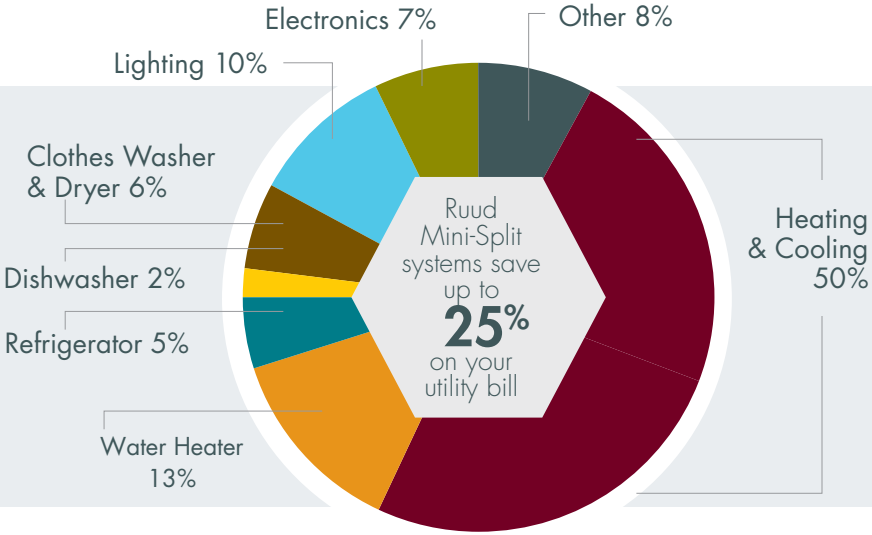
ENERGY EFFICIENT: THE SMART CHOICE IN COMFORT

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, Ruud® 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 Ruud.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.



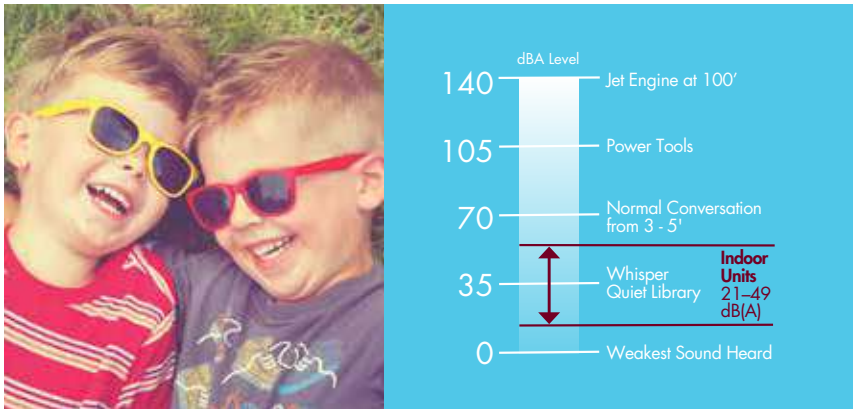
ENERGY STAR® Criteria:
SEER ≥ 15.0 EER ≥ 12.5 HSPF ≥ 8.5

*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.

COMFORT AND CONVENIENCE

QUIET

Ruud® knows heating and cooling systems should be felt—not heard. Ruud 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, these wall mount units feature Quiet Mode—extra-quiet fan speed to ensure you are not disturbed.

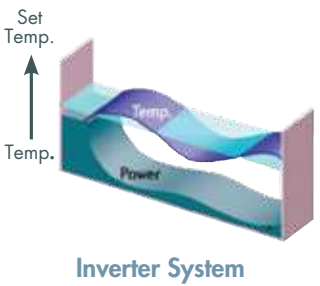
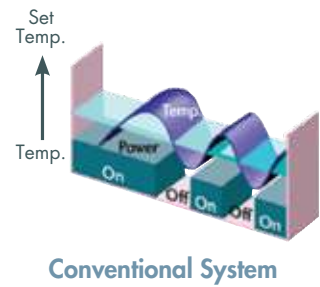


CONSTANT COMFORT THROUGH INVERTER TECHNOLOGY

Inverter technology found in Ruud 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



USER-FRIENDLY CONTROL

Ruud 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 Ruud® 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 it's 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.

The Ruud'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

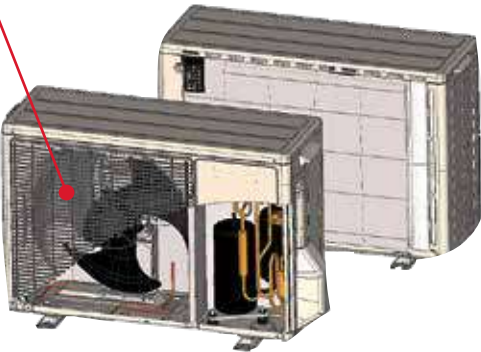
Ruud® low temperature heating operation units feature large heat exchangers and high capacity compressors. This gives the low temperature heating operation heat pumps the ability to extract heat even at very low outdoor temperatures. For example, at an indoor setpoint of 70°F, all AHHJ and AFFHJ models 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.



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

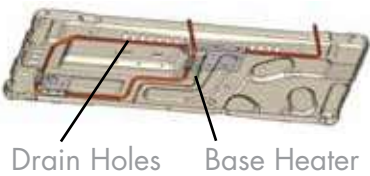
METAL FAN GUARD

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

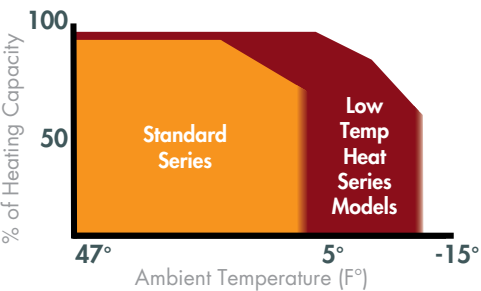
- Equipped with a heater that prevents condensate from freezing
- Contoured-base design discharges melted water through drain holes.
- Without a heater, freezing condensate can cause noise, damage to fan blade, condenser, and system performance.



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 A/C 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.

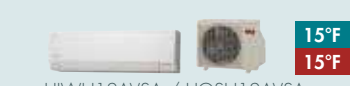
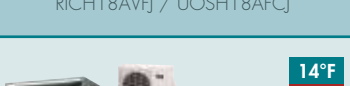
INSTALLATION

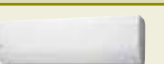
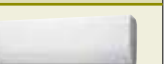
- Base Pan Heater**
Prevents condensate from freezing on the outdoor unit.
- Blue Fin Heat Exchanger**
Blue fin treatment to the outdoor unit's heat exchanger improves corrosion resistance.
- Built-In Condensate Pump**
Integrated into the indoor unit.
- Daisy Chain**
Ability to connect up to 16 identical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

☐ 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 Ruud.com for a copy of the product warranty certificate.

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
Ultra™ Series Wall Mount	 UIWH09AHWJ / UOSH09AHWJ	 UIWH12AHWJ / UOSH12AHWJ	 UIWH15AHWJ / UOSH15AHWJ					
Ultra™ Series Wall Mount Low Temp Heating Operation	 UIWH09AHWJ / UOSH09AHHJ	 UIWH12AHWJ / UOSH12AHHJ	 UIWH15AHWJ / UOSH15AHHJ		 UIWH18AVFJ / UOSH18AHXJ	 UIWH24AVFJ / UOSH24AHXJ	 UIWH30AVFJ / UOSH30AHXJ	
Achiever Plus® Series Wall Mount	 UIWH09AVFJ / UOSH09AFWJ	 UIWH12AVFJ / UOSH12AFWJ			 UIWH18AVFJ / UOSH18AFXWJ	 UIWH24AVFJ / UOSH24AFXWJ		
Achiever® Series Wall Mount	 UIWH09AVSA / UOSH09AVSA	 UIWH12AVSA / UOSH12AVSA			 UIWH18ASJ / UOSH18ASJ	 UIWH24ASJ / UOSH24ASJ	 UIWH30AXJ / UOSH30AXJ	 UIWH36AXJ / UOSH36AXJ
Ultra™ Series Floor Mount	 RIFH09AVFJ / UOSH09AFFJ	 RIFH12AVFJ / UOSH12AFFJ	 RIFH15AVFJ / UOSH15AFFJ					
Ultra™ Series Floor Mount Low Temp Heating Operation	 RIFH09AVFJ / UOSH09AFFHJ	 RIFH12AVFJ / UOSH12AFFHJ	 RIFH15AVFJ / UOSH15AFFHJ					
Achiever® Series Compact Cassette	 RICH09AVFJ / UOSH09AFCJ	 RICH12AVFJ / UOSH12AFCJ			 RICH18AVFJ / UOSH18AFCJ			
Achiever® Series Slim Duct	 RIDH09AVFJ / UOSH09AFCJ	 RIDH12AVFJ / UOSH12AFCJ			 RIDH18AVFJ / UOSH18AFCJ			

MULTI-ZONE DUCTLESS HEAT PUMPS - INDOOR UNITS						
BTU	7,000	9,000	12,000	15,000	18,000	24,000
Achiever Plus® Series Compact Wall Mount	 UIWH07AVFJ	 UIWH09AVFJ	 UIWH12AVFJ	 UIWH15AVFJ		
Achiever Plus® Series Large Wall Mount					 UIWH18AVFJ	 UIWH24AVFJ
Achiever Series Slim Duct	 RIDH07AVFJ	 RIDH09AVFJ	 RIDH12AVFJ		 RIDH18AVFJ	 RIDH24AVFJ
Achiever Series Compact Cassette	 RICH07AVFJ	 RICH09AVFJ	 RICH12AVFJ		 RICH18AVFJ	
Achiever 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)
	 UOMH18AFXZJ	 UOMH24AFXZJ	 UOMH36AFXZJ	 UOMH45AFXZJ

* If UOMH36AFXZJ 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:
UOMH18AFXZJ with (2) UIWH09AVFJ
UOMH18AFXZJ with (1) UIWH07AVFJ + (1) UIWH12AVFJ
UOMH18AFXZJ with (1) UIWH09AVFJ + (1) UIWH12AVFJ

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



These Ruud® 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.

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.

- Wired Remote Control: UXRVNUM
- Wired Remote Control: UXRNNUM
- Simple Remote Control: UXRSNUM
- Interface Kit: UXTWBXF1
- Dry Contact Wire Kit: UXXWZXZ5

9AHWJ, 12AHWJ, 15AHWJ, 9AHHJ, 12AHHJ, 15AHHJ

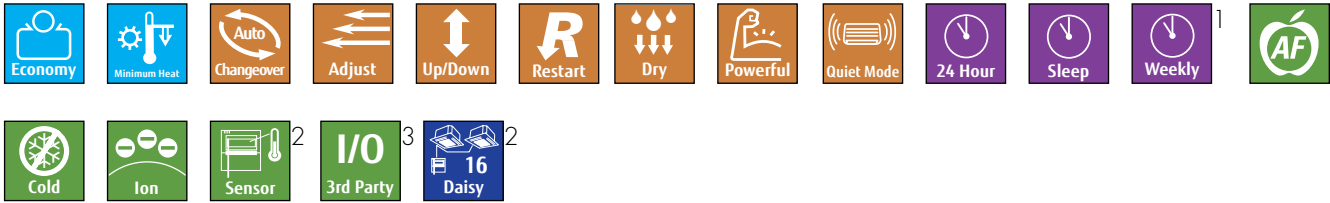
UP TO 33.0 SEER

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Note: Figures are based on 230 Volts

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

SYSTEMS
9AFWJ, 12AFWJ

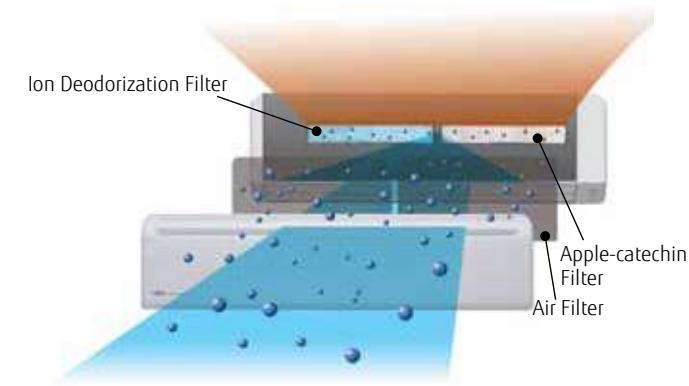


¹ Available only with optional wired remote control.
² Available only with optional wired remote control and optional Interface Kit.
³ Available only with optional Interface Kit. Operation monitoring and On / Off control only.

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: UXRVNUM*
 - Wired Remote Control: UXRNNUM*
 - Simple Remote Control: UXRSNUM*
 - Dry Contact Wire Kit: UXXWZXZ5
 - Interface Kit: UXXCBXZ2
- * Wall mounted UIWH09, 12AVFJ require accessory Interface Kit #UXXCBXZ2 in order to connect these devices to them.

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 Level (Clg/Htg): Hi	dB(A)	43/43	43/43
Indoor Level (Clg/Htg): Medium	dB(A)	40/38	40/38
Indoor Level (Clg/Htg): Low	dB(A)	32/33	32/33
Quiet	dB(A)	21/22	21/22
Outdoor 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)	18 (8)
Height	Inch	10-1/2	10-1/2
	mm	268	268
Width	Inch	33-1/16	33-1/16
	mm	840	840
Depth	Inch	8	8
	mm	203	203
Refrigerant		R410A	R410A
Additional Data			
Air Direction: Horizontal		Manual	Manual
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	Suc. 3/8 Dis. 1/4
		Indoor UIWH09AFVJ	Indoor UIWH12AFVJ
		Outdoor UOSH09AFVJ	Outdoor UOSH12AFVJ

Note: Figures are based on 230 Volts.

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

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



Economy

Minimum Heat

Changeover

Adjust

4-Way

Restart

Dry

Quiet Mode

24 Hour

Sleep

Weekly

AF

Cold

100% @ +5°F

Ion

Sensor

I/O 3rd Party

5°F Cooling

Heater

Blue Fin

16 Daisy

164+ ft Piping

¹ AXFWJ systems only.

² AXFWJ systems require optional wired remote control.

³ Available only with optional wired remote control.

⁴ Available only with optional Interface Kit. Operation monitoring and On / Off control only.

⁵ AHXHJ models only.

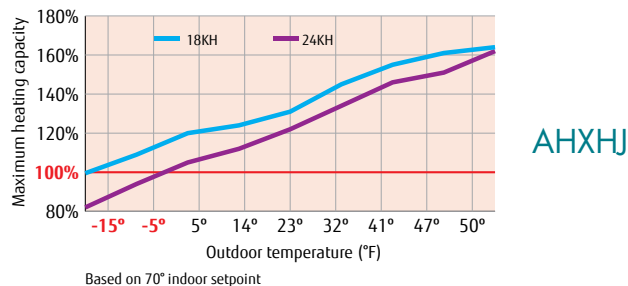
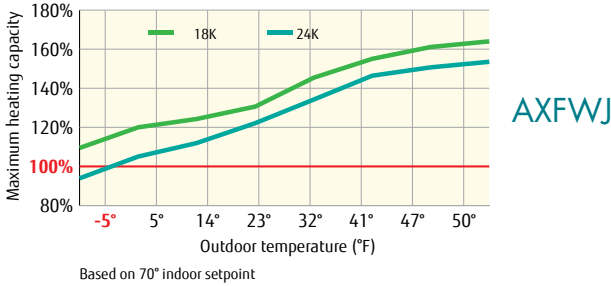
HIGH PERFORMANCE HEATING CAPACITY

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.

OPTIONAL ACCESSORIES

- Wired Remote Control: UXRNVUM
- Wired Remote Control: UXRNNUM
- Simple Remote Control: UXRSNUM
- Dry Contact Wire Kit: UXXWZX



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
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)	164 (50)	164 (50)	164 (50)
		(pre-charge: 66')	(pre-charge: 66')	(pre-charge: 65')	(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
		Indoor UWVH18AVEJ Outdoor UOSH18AXFWJ	Indoor UWVH24AVEJ Outdoor UOSH24AXFWJ	Indoor UWVH18AVEJ Outdoor UOSH18AHXHJ	Indoor UWVH24AVEJ Outdoor UOSH24AHXHJ

* Based on model # capacity class (e.g. 09AHVJ 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.

30,000 BTU/HR WALL MOUNT HEAT PUMP



Economy

ESP

Minimum Heat

Auto

Changeover

Adjust

4-Way

Restart

Dry

Low Noise

Powerful

Quiet Mode

Sleep

Weekly

AF

Cold

100%
@
+5°F

Ion

Pump Down

Sensor¹

I/O²
3rd Party

-5°F
Cooling

Heater

Blue Fin

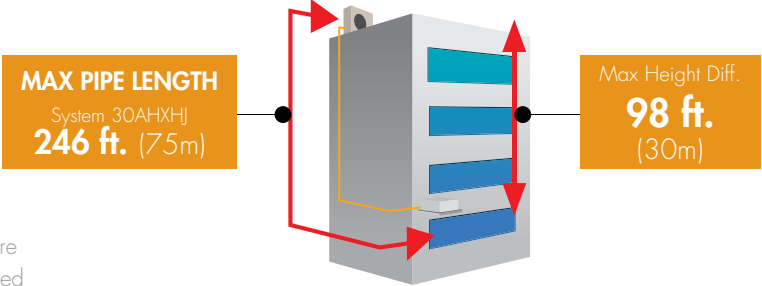
16
Daisy

164+ ft
Piping

¹ Available only with optional wired remote control.
² 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[^] 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.

[^] 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 -1.5°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: UXRNRUZ2[^]
- Wired Remote Control: UXRVNUM[^]
- Wired Remote Control: UXRNNUM[^]
- Simple Remote Control: UXRSNUM[^]
- Dry Contact Wire Kit: UXXWZX
- Interface Kit: UXXCSXZ1
- Interface Kit Box: UXGXXB
- Outdoor Unit Input/Output Connector: UTY:XWZXZ3



The 30AHXHJ is specially engineered for spaces such as server rooms which require constant cool temperatures year round, and rooms that hold a large number of people (meeting spaces, classrooms, conference rooms).

LOW TEMP HEATING SYSTEM 30RAHXHJ

UP TO 18.7 SEER		30AHXHJ	
			
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)	-5-11.5 [-20-46]	
Heating Operating Range	°F (°C)	-1.5-7.5 [-26-24]	
Moisture Removal	Pt./h (l/h)	9.7 (4.6)	
Max Htg % of Model # Capacity at +5°F [-1.5°C]*		107%	
Max Htg % of Model # Capacity at -5°F [-21°C]*		91%	
Max Htg % of Model # Capacity at -1.5°F [-26°C]*		76%	
Fan			
Air Circulation: Hi	CFM (m3/h)	812 (1,380)	
Medium	CFM (m3/h)	665 (1,130)	
Low	CFM (m3/h)	536 (910)	
Quiet	CFM (m3/h)	418 (710)	
Fan Speed Stage		4+Auto	
Sound			
Indoor Level (Clg/Htg): Hi	dB(A)	50/49	
Indoor Level (Clg/Htg): Medium	dB(A)	45/44	
Indoor Level (Clg/Htg): Low	dB(A)	38/38	
Quiet	dB(A)	32/32	
Outdoor 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)
	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	
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.		Indoor UWH30AVJ	Outdoor UOSH30AHXHJ
Note: Figures are based on 230 Volts.			

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 built 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 removes easily 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? Ruud® 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
09AVSA, 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 Level (Clg/Htg): Hi	dB(A)	43/43		43/43	
Indoor Level (Clg/Htg): Medium	dB(A)	38/38		38/38	
Indoor Level (Clg/Htg): Low	dB(A)	33/33		33/33	
Quiet	dB(A)	23/23		23/23	
Outdoor 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)
	Inch	10-5/16	21-1/4	10-5/16	21-1/4
Height	mm	262	540	262	540
	Inch	32-9/32	26	32-9/32	26
Width	mm	820	660	820	660
	Inch	8-1/8	11-11/32	8-1/8	11-11/32
Depth	mm	206	290	206	290
Refrigerant		R410A		R410A	
Additional Data					
Air Direction: Horizontal		Manual		Manual	
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 U1WH09AVSA	Outdoor U0SH09AVSA	Indoor U1WH12AVSA	Outdoor U0SH12AVSA

Note: Figures are based on 115 Volts.

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



Economy

Minimum Heat

Changeover

Adjust

4-Way

Restart

Dry

Quiet Mode

Sleep

Weekly

AF

Cold

Ion

Sensor

I/O

Blue Fin

16 Daisy

164+ ft Piping

¹ Available only with optional wired remote control.
² Available only with optional Interface Kit.
³ AXJ models only.

FUNCTION

Stylish, slim and elegant, these wall mounted ductless heat pumps are made 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: UXRVNUM
- Wired Remote Control: UXRNNUM
- Simple Remote Control: UXRSNUM
- Dry Contact Wire Kit: UXXWZX

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

UP TO 19.0 SEER				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 Level (Clg/Htg): Hi	dB(A)	42/43		47/47		47/49		50/50	
Indoor Level (Clg/Htg): Medium	dB(A)	35/36		41/42		42/42		42/42	
Indoor 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 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)	31 (14)	134 (61)	31 (14)	134 (61)
Height	Inch	12-5/8	24-7/16	12-5/8	24-7/16	12-5/8	32-11/16	12-5/8	32-11/16
	mm	320	620	320	620	320	830	320	830
Width	Inch	39-5/16	31-1/8	39-5/16	31-1/8	39-5/16	35-7/16	39-5/16	35-7/16
	mm	998	790	998	790	998	900	998	900
Depth	Inch	9	11-7/16	9	11-7/16	9	13	9	13
	mm	228	290	228	290	228	330	228	330
Refrigerant		R410A		R410A		R410A		R410A	
Additional Data									
Air Direction: Horizontal		Automatic		Automatic		Automatic		Automatic	
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 UWH18ASJ	Outdoor UOSH18ASJ	Indoor UWH24ASJ	Outdoor UOSH24ASJ	Indoor UWH30AXJ	Outdoor UOSH30AXJ	Indoor UWH36AXJ	Outdoor UOSH36AXJ

Note: Figures are based on 230 Volts.

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



Economy

Minimum Heat

Auto Changeover

Adjust

Up/Down

Restart

Dry

Powerful

Quiet Mode

24 Hour

Sleep

Weekly

AF

Cold

100% @ +5°F

Ion

Sensor

Heater

16 Daisy

¹ Available with optional wired remote control.

² AFFHJ models only.

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)

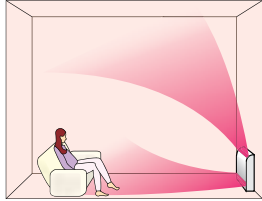
AFFJ models can operate down to -5°F. AFFHJ models can operate down to -15°F. See the full Low Temperature Heating Operation story on page 12.

OPTIONAL ACCESSORIES

- Wired Remote Control: UXRVNUM
- Wired Remote Controller: UXRNNUM
- Simple Remote Control: UXRNUM
- Dry Contact Wire Kit: UXXWZXZ5

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

Beneath standard window

Standard concave portion

Wall

Half concealed*

23-5/8"

27-9/16"

29-1/8"

7-7/8"

Min. 27-9/16"

Min. 37"

Max. 5-7/8"

Min. 23-1/4"

Min. 28-3/4"

Max. 3-1/8"

Cooling

Heating

Fig. 1

Fig. 2

Window

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.

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.

LOW TEMP HEATING SYSTEMS
09AFFHJ, 12AFFHJ, 15AFFHJ

SYSTEMS
09AFFJ, 12AFFJ, 15AFFJ

UP TO 26 SEER		09AFFJ			12AFFJ			15AFFJ			09AFFHJ			12AFFHJ			15AFFHJ						
Performance		ENERGY STAR			ENERGY STAR			ENERGY STAR			ENERGY STAR			ENERGY STAR			ENERGY STAR						
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)		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			
	mm	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			
	mm	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			
	mm	200		290		200		290		200		290		200		290		200		290			
Refrigerant		R410A			R410A			R410A			R410A			R410A			R410A						
Additional Data																							

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.

Economy

Minimum Heat

Auto Changeover

Adjust

Up/Down

Restart

Dry

Fresh

Quiet Mode

Weekly

Cold

100% @ +5°F

Ceiling

Sensor

I/O 3rd Party

Pump

Daisy 16

¹ Available only with optional wireless remote control.

² Requires the Ruud® Optional Fresh Air Kit part #UXVXAA. Allows for a 4-inch flex duct connection. Requires a field supplied duct booster fan capable of 60 CFM at .2"V.W.C. or 90 CFM at .4"V.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.

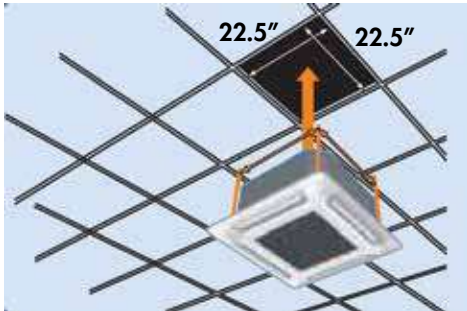
³ Available only with optional Interface Kit. Operation monitoring and On / Off control only.

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

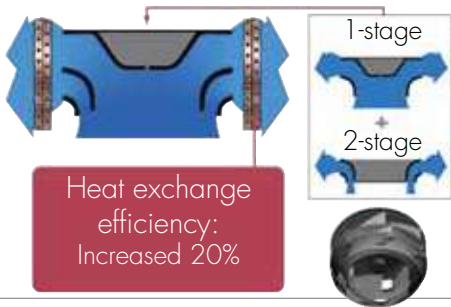
Fits into a standard ceiling tile*.



*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: UXRVNUM
- Wireless remote UXLNHUM
- Fresh Air Kits UXVXAA
 - Mixes room air which then passes through the heat exchanger.



SYSTEMS
09AFCJ, 12AFCJ, 18AFCJ

UP TO 24.0 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		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 Level (Clg/Htg): Hi	dB(A)	33/34			37/37			40/44		
Indoor Level (Clg/Htg): Medium	dB(A)	32/32			33/33			36/40		
Indoor Level (Clg/Htg): Low	dB(A)	29/29			31/31			32/36		
Quiet	dB(A)	28/27			28/28			28/30		
Outdoor 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	24-1/2	9-11/16	1-15/16	24-1/2	9-11/16	1-15/16	24-1/2
	mm	245	49	620	245	49	620	245	49	620
Width	Inch	22-7/16	27-9/16	31-3/32	22-7/16	27-9/16	31-3/32	22-7/16	27-9/16	31-3/32
	mm	570	700	790	570	700	790	570	700	790
Depth	Inch	22-7/16	27-9/16	11-11/32	22-7/16	27-9/16	11-11/32	22-7/16	27-9/16	11-11/32
	mm	570	700	290	570	700	290	570	700	290
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 UICH09AVFJ	Grille UXCCGF	Outdoor UOSH09AFCJ	Indoor UICH12AVFJ	Grille UXCCGF	Outdoor UOSH12AFCJ	Indoor UICH18AVFJ	Grille UXCCGF	Outdoor UOCH18AFCJ

Note: Figures are based on 230-Volts.

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



Economy

Minimum Heat

1

Auto Changeover

Adjust

R Restart

Dry

Fresh

Quiet Mode

Weekly

Cold

100% @ +5°F

Sensor

I/O

2

Pump

16 Daisy

1 Available only with optional wireless remote control.

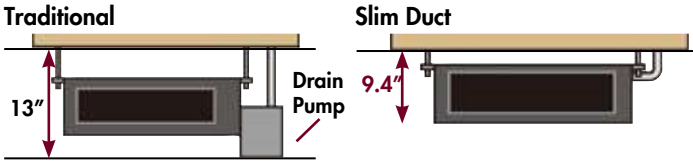
2 Available only with optional Interface Kit. Operation monitoring and On / Off control only.

FUNCTION

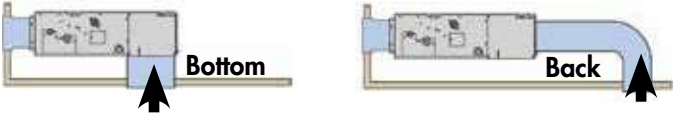
Slim ducts provide cooling or heating for small room applications such as offices, restaurants, convenience stores, motels, dorms, in retrofit and new construction. Long maximum combined piping length of 66'D and 49" height allow for versatile installations. Either horizontal or vertical flexibility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

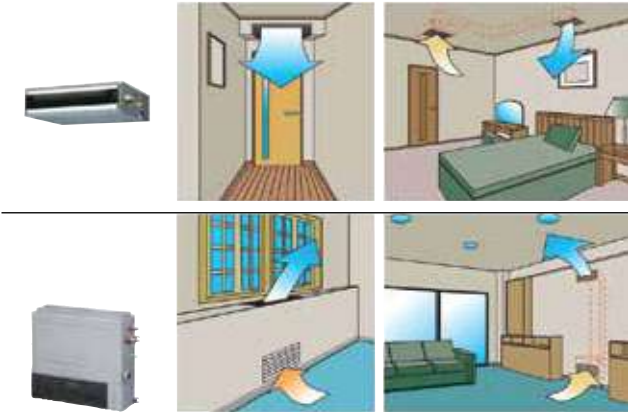


RETURN AIR-INTAKE CHOICES



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: UXRNVUM
- Wireless Remote and Receiver UXLRHUM
- Auto Louver Grille Kit UXGXSA-W (for UIDH07/09/12) UXGXSB-W (for UIDH18)

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.

	UIDH 09AVFJ	UIDH 12AVFJ	UIDH 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
9RLFCD, 12RLFCD, 18RLFCD

UP TO 21.5 SEER

		9RLFCD	12RLFCD	18RLFCD
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 (0.7)	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 Level (Clg/Htg): Hi	dB(A)	28/28	29/29	32/32
Indoor Level (Clg/Htg): Medium	dB(A)	27/26	28/28	30/30
Indoor Level (Clg/Htg): Low	dB(A)	26/25	27/27	29/29
Quiet	dB(A)	25/24	26/24	27/27
Outdoor 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)	41 (19)	84 (38)
Height	Inch	7-25/32	7-25/32	7-25/32
Width	Inch	27-9/16	27-9/16	31-3/32
Depth	Inch	24-13/32	24-13/32	24-13/32
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	suc 3/8	suc 3/8
		dis 1/4	dis 1/4	dis 1/4

Note: Figures are based on 230 Volts.

MULTI-ZONE MINI-SPLIT SYSTEMS

ROMH18AFXZJ, ROMH24AFXZJ,
ROMH36AFXZJ, ROMH45AFXZJ

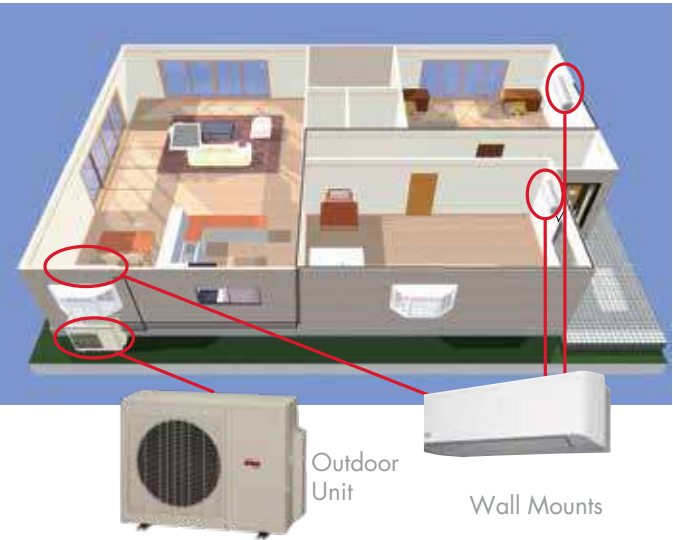
- Operate as few as one indoor unit or all indoor units
- Choose from 4 indoor unit styles - wall mount, slim duct, compact cassette, and floor mount
- Create hundreds of combinations based on indoor type and BTU/HR
- Connect 2 to 5 indoor units, depending on model
- Connect 14,000 to 54,000 BTU/HR
- No branch boxes or separation tubes required
- **A Tri-Zone 24,000 BTU Unit**
Ruud® offers a 2-ton system that provides 2 or 3-zone flexibility. By using connectible 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. Ruud® 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.



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 BTUs downstairs and 18,000 BTUs 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 the Ruud ROMH36AFXZJ outdoor unit.

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

	UOMH18AFXZJ	UOMH24AFXZJ	UOMH36AFXZJ	UOMH45AFXZJ
WALL MOUNTS				
UIWH07, 09, 12AVFJ	✓	✓	✓	✓
UIWH15AVFJ		✓	✓	✓
UIWH18AVFJ		✓	✓	✓
UIWH24AVFJ			✓	✓
FLOOR MOUNTS				
RIFH09, 12AVFJ	✓	✓	✓	✓
RIFH15AVFJ		✓	✓	✓
SLIM DUCTS				
RIDH07, 09, 12AVFJ	✓	✓	✓	✓
RIDH18AVFJ		✓	✓	✓
RIDH24AVFJ			✓	✓
COMPACT CASSETTES				
RICH07, 09, 12AVFJ	✓	✓	✓	✓
RICH18AVFJ		✓	✓	✓

MULTI-ZONE INDOOR UNITS

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
- Fewer 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



UIVWH07, 09, 12, 15AVFJ



UIVWH18, 24AVFJ

Economy

Minimum Heat

Auto Changeover¹

Adjust

4-Way²

Up/Down³

Restart

Dry

Quiet Mode

24 Hour

Sleep

Weekly⁴

AF

Cold

Ion

Sensor⁵

I/O⁶ 3rd Party

16 Daisy

¹ 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.

² UIVWH18, 24AVFJ models only.

³ UIVWH07, 09, 12, 12AVFJ models only.

⁴ UIVWH07, 09, 12, 12AVFJ models: Available only with optional wired remote control.

⁵ Available only with optional wired remote control and optional Interface Kit.

⁶ 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.

UIVWH07AVFJ, UIVWH09AVFJ, UIVWH12AVFJ, UIVWH15AVFJ, UIVWH18AVFJ, UIVWH24AVFJ

		UIVWH07AVFJ	UIVWH09AVFJ	UIVWH12AVFJ	UIVWH15AVFJ	UIVWH18AVFJ	UIVWH24AVFJ
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
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:

		UOMH18AFXZJ with (2) UIVWH09AVFJ UOMH18AFXZJ with (1) UIVWH07AVFJ + (1) UIVWH12AVFJ UOMH18AFXZJ with (1) UIVWH09AVFJ + (1) UIVWH12AVFJ
		UOMH24AFXZJ with (2) UIVWH07AVFJ + (1) UIVWH09AVFJ

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



Economy

Minimum Heat¹

Auto Changeover²

Adjust

Restart

Dry

Quiet Mode

24 Hour¹

Sleep¹

Weekly

Cold

Sensor

I/O³
3rd Party

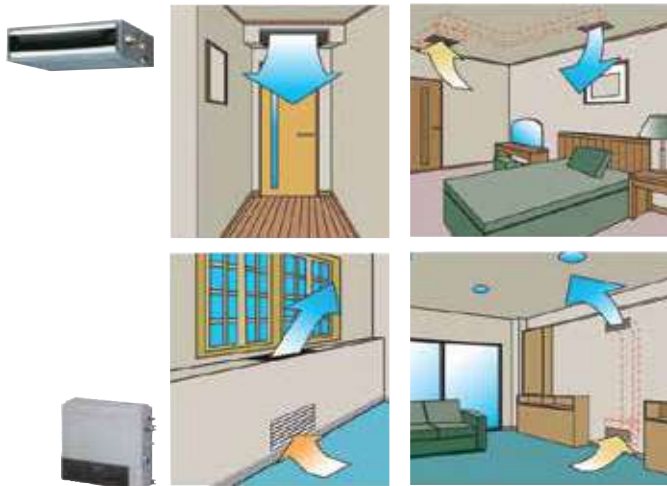
Pump

16
Daisy

¹ Available only with optional wireless remote control.
² 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.
³ 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.



FIELD SUPPLIED FILTERS

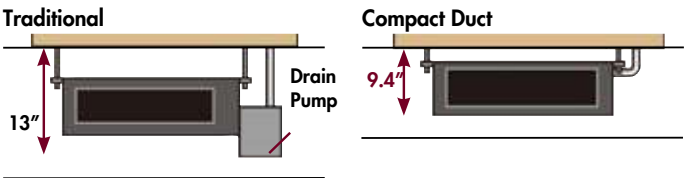
Filters are sized to keep velocities and static pressure loss low. This will ensure sufficient static pressure is available for ductwork, fittings and supply and return grilles.

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

SLIM DUCT

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

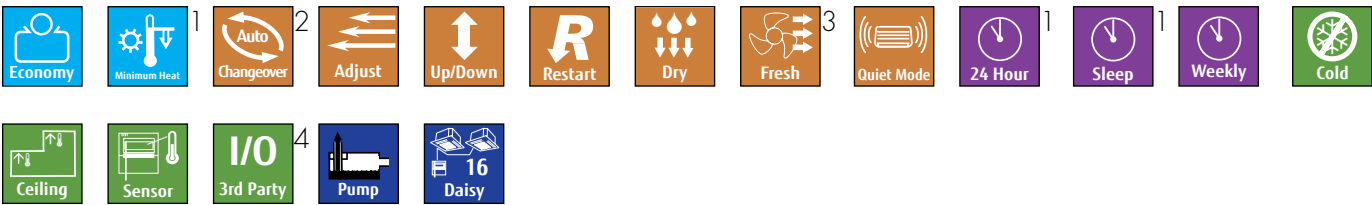


RIDH07AVFJ, RIDH09AVFJ, RIDH12AVFJ,
RIDH18AVFJ, RIDH24AVFJ

		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 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 Depth	Inch	3/4	3/4	3/4	3/4	3/4
	mm	19	19	19	19	19
Return Duct Height	Inch	6	6	6	6	6
	mm	152	152	152	152	152
Return Duct Width	Inch	22	22	22	30	37-3/4
	mm	559	559	559	762	959
Return Duct 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



¹ Available only with optional wireless remote control.

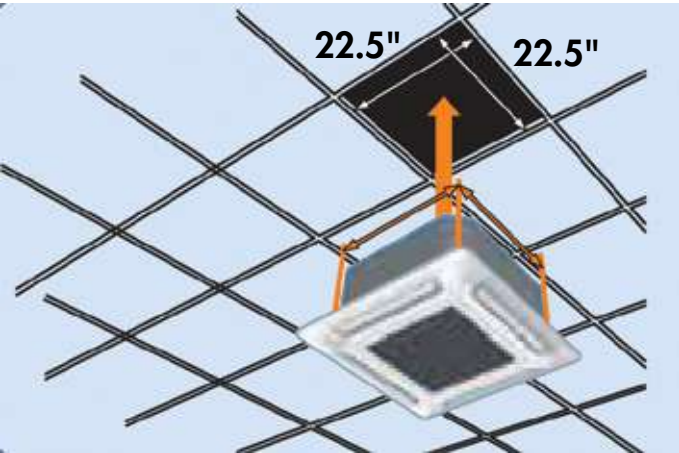
² Auto Changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling. This feature is not recommended for systems with more than one indoor unit unless all indoor units have similar heating and cooling requirements and have similar temperature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

³ Requires Ruud'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.

⁴ 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.





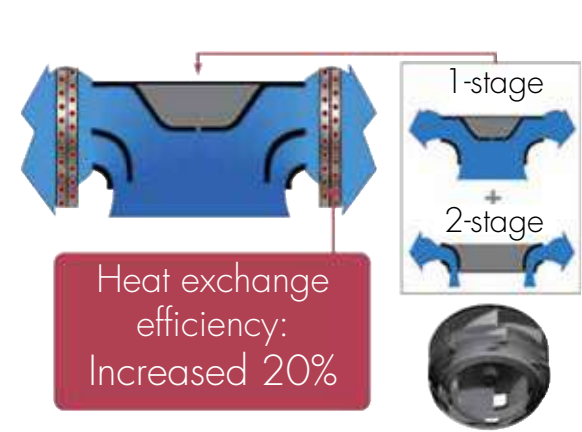
FRESH AIR KITS

UXVXAA

Mixes room air then passes through the heat exchanger.

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.



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		UXCCGF*	UXCCGF*	UXCCGF*	UXCCGF*
Grille Dim: Height	Inch (mm)	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)
Width	Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
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 1/2 dis 1/4

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

9, 12, 15,000 BTU/HR FLOOR MOUNT
MULTI-ZONE INDOOR



Economy

Minimum Heat

Changeover

Adjust

Up/Down

Restart

Dry

Powerful

Quiet Mode

24 Hour

Sleep

Weekly

AF

Cold

Ion

Sensor

I/O 3rd Party

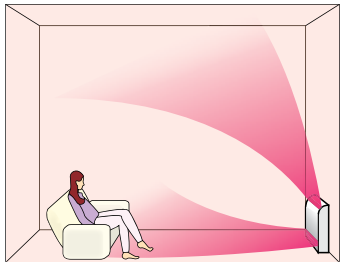
16 Daisy

¹ Available with optional wired remote control.

² 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.

Window

Fig. 1

Fig. 2

FLEXIBLE AND EASY INSTALLATION

Beneath standard window

23-5/8"

27-9/16"

29-1/8"

7-7/8"

Wall

Standard concave portion

Min. 37"

Min. 27-9/16"

Half concealed*

Min. 23-1/4"

Min. 28-3/4"

Max. 5-7/8"

Max. 3-1/8"

*Field supplied insulation required

RIFH09AVEFJ, RIFH12AVEFJ,
RIFH15AVEFJ

		RIFH09AVEFJ	RIFH12AVEFJ	RIFH15AVEFJ
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



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.

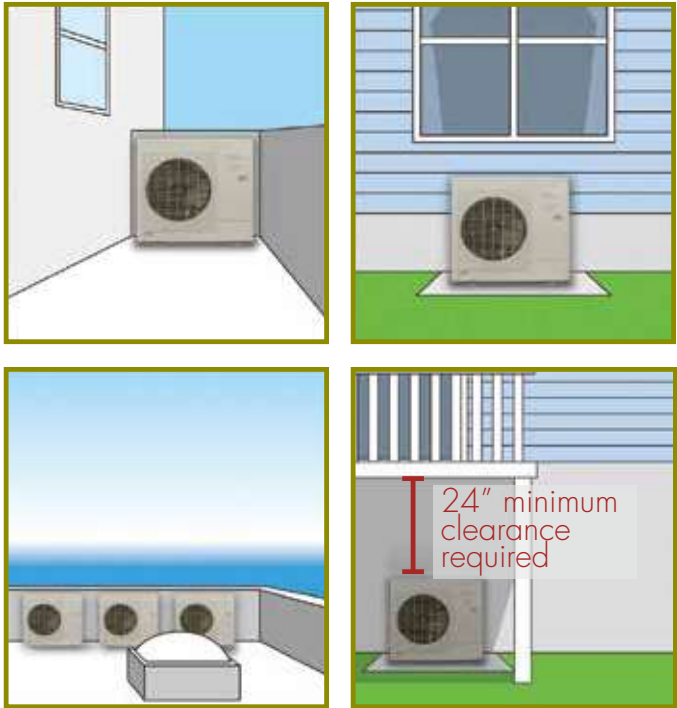
DC TWIN ROTARY COMPRESSOR

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 95°F	EER	SEER	Heating Rated Capacity BTU/HR		Heating Maximum Capacity BTU/HR		COP 47°F	HSPF
	Type	Combination				47°F	17°F	17°F	5°F		
UOMH 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	UIWH07+UIWH12 and UIWH09+UIWH12	18,000	12.5	18.0	22,000	13,900	16,300	13,900	3.67	9.0
UOMH 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
UOMH 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
UOMH 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

UOMH18AFXZJ, UOMH24AFXZJ, UOMH36AFXZJ, UOMH45AFXZJ

		UOMH18AFXZJ UIHW09+UIWH099	UOMH24AFXZJ UIWH09+ UIWH07+UIWH07	UOMH36AFXZJ UIWH09 x 4	UOMH45AFXZJ UIWH09 x 5
Performance					
Connectable Indoor Units		2	2 to 3	2* to 4	2 to 5
Connectable Unit Capacity Class		BTU/HR	14 to 21,000 ¹	14 to 27,000 ¹	27 to 39,000 ¹
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 (UIWH, UIDH or UICH) combination and requires K9FZ1818
¹ See table for allowed combinations within this connectable capacity range.

ALLOWABLE COMBINATIONS

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.

BTU/HR Capacity	7,000	9,000	12,000	15,000	18,000	24,000		= Allowed "Connectable Capacity" combinations between 100 and 130%
-----------------	-------	-------	--------	--------	--------	--------	--	--

2 INDOOR UNITS	UOMH18AFXZJ										
	7	7									14
	7	9									16
	7	12									19
	9	9									18
	9	12									21
3 INDOOR UNITS MAX	UOMH24AFXZJ										
	7	7	-								14
	7	9	-								16
	7	12	-								19
	7	15									22
	7	18									25
4 INDOOR UNITS MAX	9	9	-								18
	9	12									21
	9	15									24
	9	18									27
	12	12									24
	12	15									27
	7	7	7								21
	7	7	9								23
	7	7	12								26
	7	9	9								25
	9	9	9								27
	5 INDOOR UNITS MAX	UOMH36AFXZJ									
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
6 INDOOR UNITS MAX		9	9	9	-						
	9	9	12	-							30
	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	
7 INDOOR UNITS MAX	UOMH45AFXZJ										
	18	18									36
	12	24									36
	15	24									39
	18	24									42
	24	24									48
	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	
8 INDOOR UNITS MAX	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	12	24								48	
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	
9 INDOOR UNITS MAX	UOMH18AFXZJ										
	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	15	24							55	
7	9	18	18							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	
10 INDOOR UNITS MAX	UOMH24AFXZJ										
	7	7	7	7	7						35
	7	7	7	7	9						37
	7	7	7	7	12						40
	7	7	7	7	15						43
	7	7	7	7	18						46
	7	7	7	7	24						52
	7	7	7	9	9						39
	7	7	7	9	12						42
	7	7	7	9	15						45
	7	7	7	9	18						48
	7	7	7	9	24						54
7	7	9	9	9						41	
7	7	9	9	12						44	
7	7	9	9	15						47	
7	7	9	9	18						50	
7	7	9	9	24						56	
7	7	9	12	12						43	
7	7	9	12	15						46	
7	7	9	12	18						49	
7	7	9	12	24						55	
7	7	9	15	15						47	
7	7	9	15	18						50	
7	7	9	15	24						56	
7	7	9	18	18						53	
9	9	9	9	9						41	
9	9	9	9	12						44	
9	9	9	9	15						47	
9	9	9	9	18						50	
9	9	9	9	24						56	
9	9	9	12	12						43	
9	9	9	12	15						46	
9	9	9	12	18						49	
9	9	9	12	24						55	
9	9	9	15	15						47	
9	9	9	15	18						50	
9	9	9	15	24						56	
9	9	9	18	18						53	
9	9	9	9	9						41	
9	9	9	9	12						44	
9	9	9	9	15						47	
9	9	9	9	18						50	
9	9	9	9	24						56	
9	9	9	12	12						43	
9	9	9	12	15						46	
9	9	9	12	18						49	
9	9	9	12	24						55	
9	9	9	15	15						47	
9	9	9	15	18						50	
9	9	9	15	24						56	
9	9	9	18	18						53	
9	9	9	9	9						41	
9	9	9	9	12						44	
9	9	9	9	15						47	
9	9	9	9	18						50	
9	9	9	9	24						56	
9	9	9	12	12						43	
9	9	9	12	15						46	
9	9	9	12	18						49	
9	9	9	12	24						55	
9	9	9	15	15						47	
9	9	9	15	18						50	
9	9	9	15	24						56	
9	9	9	18	18						53	
9	9	9	9	9						41	
9	9	9	9	12						44	
9	9	9	9	15						47	
9	9	9	9	18						50	
9	9	9	9	24						56	
9	9	9	12	12						43	
9	9	9	12	15						46	
9	9	9	12	18						49	
9	9	9	12	24						55	
9	9	9	15	15						47	
9	9	9	15	1							

INTERFACE KITS

Dry Contact Wire Kit*
RXXWZX / RXXVZXZ5



Turns system on or off using a normally open circuit. For example in home automation, BMS integration of only On / Off operation, occupancy sensor, key card switch, or lead-lag control of other heating/cooling devices.

Slim Duct Connector Kit
UTD-ECS5A



Comes with 5 sets of wires. Can be used to turn unit on / off , wire in float switch, AUX heater, turn on an external device (Fan), or show if the unit is running.

Interface Kit Box
RXGXXB



Used to conceal Interface Kit RXXCSXZ1.

Interface Kit
RXXCBXZ2



Required to connect UIWH07, 09, and 12AVFJ to Wired Remotes RXRNNUM and RXRVNUM, Dry Contact Wire Kit RXXWZX, and Simple Remote Control RXRSNUM.

Outdoor Unit Input/Output Connector
UTY-XVZXZ3



Gives the ability to limit the noise of the unit*, stop the outdoor unit, limit power consumption*, control the operating mode (Htg/Clg), or use output status to see if the compressor is running. You will need to order a kit for each option.

Interface Kit
RXTVVBXF1



Required to connect the 09, 12, 15AHWJ / AHJHJ to Wired Remotes RXRNNUM and RXRVNUM, Dry Contact Wire Kit RXXVZXZ5, and Simple Remote Control RXRSNUM.

Interface Kit
RXXCSXZ1

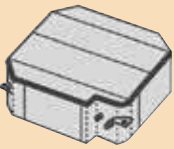


Required to connect UIWH30AVFJ to Dry Contact Wire Kit UTY-XVZXZ3, and Lead Lag Control function^.

* Will reduce capacity.
^ Wired remotes cannot be used when using this feature. This includes UTY-RNRUZ1, RXRVNUM, RXRNNUM

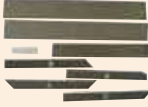
FRESH AIR INTAKE KITS

High Humidity Insulation Kit
RXKXGC



Additional insulation for compact cassette units, which may be needed when they are installed in high humidity areas.

Air Outlet Shutter Plate
UTR-YDZB



In a 3-way air flow configuration an Air Outlet Shutter Plate kit is required to block air flow of 1 louver.

Fresh Air Intake Kit
RXVXAA



Mixes room air then passes it through a heat exchanger. 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.

MISCELLANEOUS

3-Pole Single Throw Safety Switch
RXK3PST



For use where code requires a disconnect at the indoor unit.

18+18 Combo Fittings Kit
RXK9FZ1818



Allows two 18,000 BTU indoor units to be used on an outdoor UOMH36AFXZJ. Requires special piping; limited to only 18,000 BTU models. Total BTU capacity is limited to 31,600 BTU in cooling. The kit upsizes linesets to 3/8x" and 1/2".

R410A Swivel Adapter
RXK9R410A55



In order to minimize incorrect charging of systems with R22 Ruud® uses a different access port. Contractors will need this 55° swivel access fitting.

Auto Louver Grille Kit
RXGXA-W (for RIDH07/09/12)
RXGXS-B-W (for RIDH18)
RXGXSC-W (for RIDH24)



Auto Louver provides comfortable airflow and blends in with various interiors. Grille can be connected either directly to indoor unit or through the rectangular duct.

ACCESSORY COMPATIBILITY

ACCESSORY COMPATIBILITY		SINGLE-ZONE																								MULTI-ZONE AND FLEX-ZONE									
		WALL MOUNTED																		FLOOR MOUNT		COMPACT CASSETTE		SLIM DUCT											
		09AVSA	09AFWJ	09AHWJ	09AHHJ	12AVSA	12AFWJ	12AHWJ	12AHHJ	15AHWJ	15AHHJ	18ASJ	18AXFWJ	18AHHJ	24ASJ	24AXFWJ	24AHHJ	30AXJ	30AHHJ	36AXJ	09AFFJ	12AFFJ	15AFFJ	09AFFHJ	12AFFHJ					15AFFHJ	09AFCJ	12AFCJ	18AFCJ	09RIFCD	12RIFCD
REMOTE CONTROLS																																			
RXRNNUM	Wired Remote Control	●3	●2	●2		●3	●2	●2	●2	●2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●3	●	●		
RXRVNUM	Wired Remote Control (Backlit)	●3	●2	●2		●3	●2	●2	●2	●2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●3	●4	●4	●4	●4
RXRSNUM	Simple Remote Control 3-Wire	●3	●2	●2		●3	●2	●2	●2	●2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●3	●	●	●		
RXLNHUM	Wireless Remote Control																									●	●	●				●			
RXDMNUM	Central Remote Control																																	●	
RXRNRUZ2	Wired Remote Control																	●																	
RXXSZX	Remote Sensor																													●	●	●		●	
UTY-LRHUM	Receiver Unit																													●	●	●		●	
INTERFACE KITS																																			
RXXWZX	Dry Contact Wire Kit											●	●	●	●	●				●	●					●	●	●				●	●		
RXXVZXZ5	Dry Contact Wire Kit		●	●	●		●	●	●	●	●										●	●	●	●	●						●3			●	
RXXCBXZ2	Interface Kit ³		●				●																								●				
RXTVBXF1	Interface Kit ²			●	●			●	●	●	●																								
UTD-ECS5A	Slim Duct Connector Kit																												●	●	●			●	
UTY-XWZXZ3	Outdoor Unit Input/Output Connector																	●																●	
RXXCSXZ1	Interface Kit																	●																	
RXGXXB	Interface Kit Box																	●																	
FRESH AIR INTAKE KITS																																			
RXXKXGC	High Humidity Insulation Kit																									●	●	●					●		
UTR-YDZB	Air Outlet Shutter Plate																									●	●	●					●		
RXVXAA	Fresh Air Intake Kit																									●	●	●					●		
RXXHRS940-25	Fresh Air Intake																																		
MISCELLANEOUS																																			
RXK3PST	3-Pole Single Throw Safety Switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RXK9R410A55	R410A Swivel Adapter	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
UTR-DPB24T	Condensate Pump																																		
RXK9FZ1818	18+18 Combo Fittings Kit (for UOMH36AFXZJ)																															●			
RXGXSA-W	Auto Louver Grille Kit (for RIDH07, 09, 12)																												●	●				●	
RXGXSB-W	Auto Louver Grille Kit (for RIDH18)																														●			●	
RXGXSC-W	Auto Louver Grille Kit (for RIDH24)																																	●	

¹ If using RXRNBYU with these models you need to change the dip switch SW-1 to "ON".
² Wall mounted UIWH9, 12, and 15AHWJ / AHJHJ require accessory Interface Kit #RXTVVBXF1 in order to connect these devices to them.
³ Wall mounted UIWH7, 9, and 12AVFJ require accessory Interface Kit #RX-XCBXZ2 in order to connect these devices to them.
⁴ Only multi-zone models greater than specific serial numbers are compatible with RXRVNUM.

LINE SET SIZES AND LENGTHS

SINGLE-ZONE SYSTEMS																				
	09AVSA	09AFJ	09AFFHJ	09AFWJ	09AHWJ	09AHJU	12AVSA	12AFJ	12AFFHJ	12AFWJ	12AHWJ	12AHJU	15AFJ	15AFFHJ	15AFWJ	15AHJU	18ASJ	18AXFWJ	18AHXHJ	24AXFWJ
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)	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)	16 (5)

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

MULTI / FLEX ZONE MODELS																
	UIWH07AVFJ	UIWH09AVFJ	UIWH12AVFJ	UIWH15AVFJ	UIWH18AVFJ	UIWH24AVFJ	RIFH09AVFJ	RIFH12AVFJ	RIFH15AVFJ	RIDH07AVFJ	RIDH09AVFJ	RIDH12AVFJ	RIDH18AVFJ	RIDH24AVFJ	RICH07AVFJ	RICH09AVFJ
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)	165 (50)
Min. Combined Pipe Length ft (m)															49 (15)	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 UOMH36AFXZJ and requires kit RXX9FZ1818.

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

RUUD® MODEL NOMENCLATURE

Mini-Split Outdoor Unit									
R	O	S	H	18	A	F	W	J	
Brand	Product Category	Unit Type	Functions	Capacity BTU/HRR	Major System Series	System Type	Type (2)	Voltage	Revision Series (Option)
R: Ruud	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 st 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/HRR	Major System Series	System Type	Type (2)	Voltage	Minor Revision Series (Option)
R: Ruud	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 st 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 RUUD® 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 visit Ruud.com for a copy of the product warranty certificate.

THINGS TO KNOW WHEN YOU INSTALL A RUUD 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 Ruud. 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 Ruud. 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 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 Ruud 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 Ruud 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 Ruud manufacturing facilities have achieved the prestigious ISO 2001 Certification. Ruud was the first HVAC manufacturer in North America to earn this distinction in all its brand facilities.



AHRI Energy Guide® Program (U.S.)

To view AHRI numbers or Energy Guide labels, please visit ahridirectory.org

ASTM

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



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In keeping with its policy of continuous progress & program improvement, Ruud reserves the right to make changes without notice.