



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

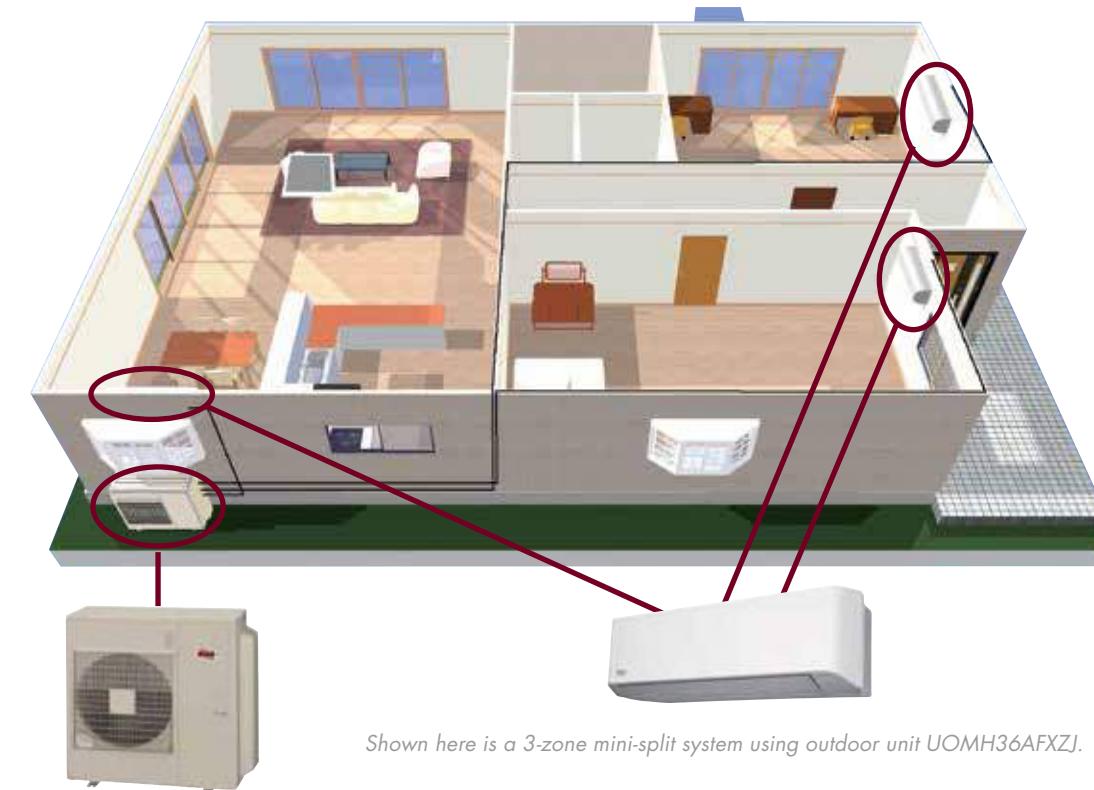
Ruud Ductless Heat Pump Mini-Split systems are some of today's most advanced forms of heating and cooling. One outdoor unit can operate up to 5 indoor units, simultaneously providing just the right amount of comfort control to each zone. Ruud systems are super quiet as well as highly energy efficient.

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.



Shown here is a 3-zone mini-split system using outdoor unit UOMH36AFXZJ.

MULTI
18, 24, 36,
45,000 BTUs



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

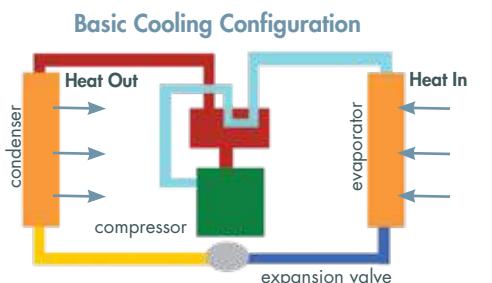
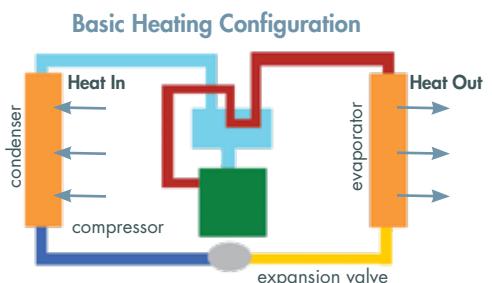


HEAT PUMPS PROVIDE HEAT WHEN IT'S CHILLY

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.

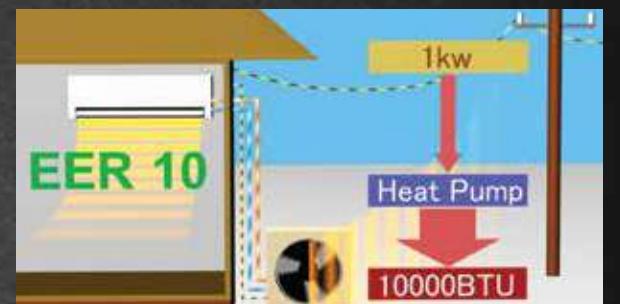


ELECTRIC HEATERS VS. HEAT PUMPS



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.

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



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.



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.



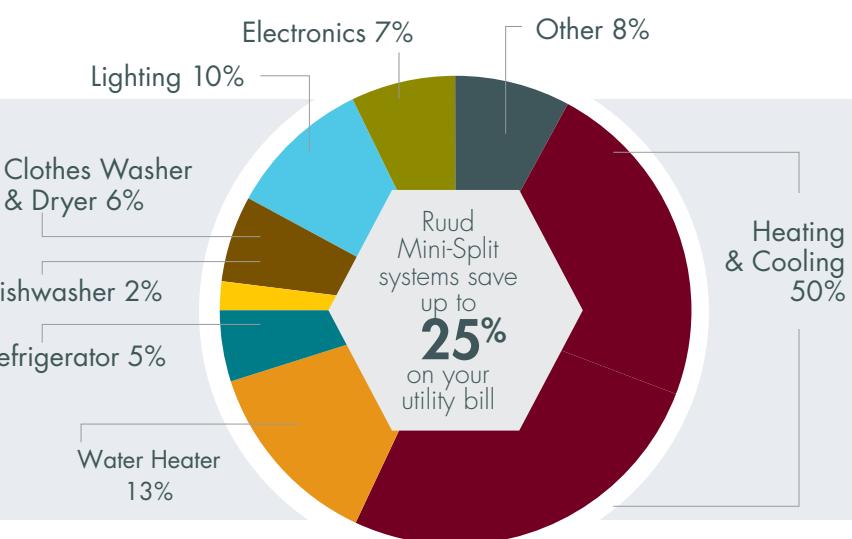
Whole Home Comfort

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

ENERGY EFFICIENT: THE SMART CHOICE IN COMFORT

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

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



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!*



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.

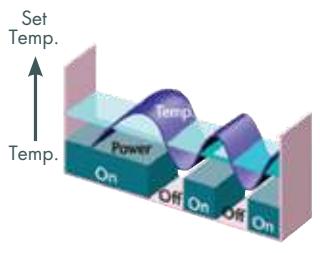
ENERGY STAR® Criteria:
SEER \geq 15.0 EER \geq 12.5 HSPF \geq 8.5

*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.

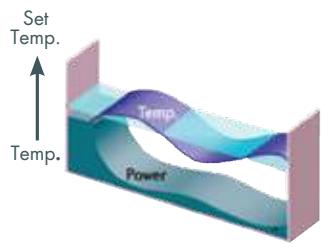
COMFORT AND CONVENIENCE

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.



Conventional System



Inverter System

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.

Standard Wireless Remote for select systems



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.

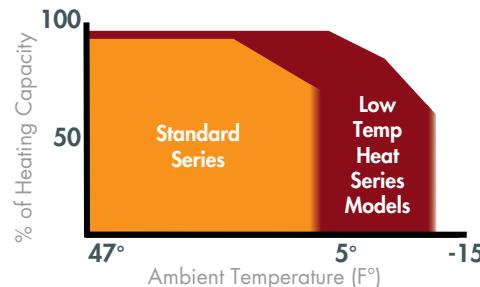
The Ruud's line of mini-split heat pumps come in different sizes, styles and rated outdoor temperatures. The Low Temperature Heating Operation Series features outdoor condensing units engineered to operate in temperatures down to -15°F.



Without the right technology, condensate freezes to the bottom of the unit and reduces its efficiency and heating output.

IMPROVED HEATING CAPACITY

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



HIGH-PERFORMANCE HEATING

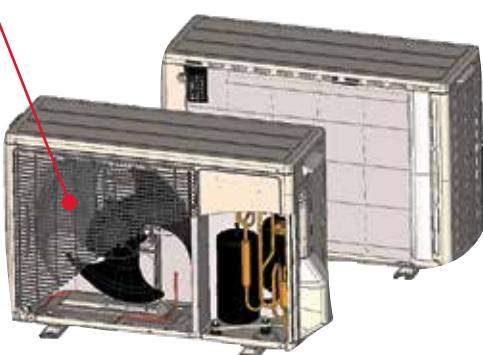
Ruud® low temperature heating operation units feature large heat exchangers and high capacity compressors. This gives the low temperature heating operation heat pumps the ability to extract heat even at very low outdoor temperatures. For example, at an indoor setpoint of 70°F, all AHHJ and AFFHJ models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

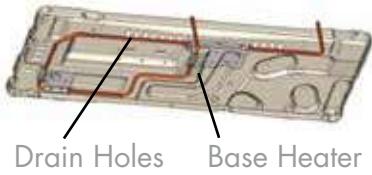
METAL FAN GUARD

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.



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.



100% @ +5°F

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.



I/O 3rd Party Device Control

Turns system on or off using a normally closed circuit. Interface with third party devices such as home automation.



-5°F 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.

SYSTEM FEATURE SUMMARY

SINGLE-ZONE HEAT PUMPS

		WALL MOUNT		FLOOR MOUNT		COMPACT CASSETTE		SLIM DUCT		MULTI-ZONE HEAT PUMPS	
SEER											
HSPF											
Economy Mode											
Energy Saving Pgm (ESP)											
ENERGY STAR® Qualified											
Minimum Heat Mode											
Auto Changeover											
Auto Fan Mode											
Auto Louver: 4 Way											
Auto Louver: Up / Down											
Auto Restart											
Dry Mode											
Fresh Air Intake											
Outdoor Unit Low Noise											
Powerful Operation											
Quiet Mode (Indoor Unit)											
24-Hour Timer											
Sleep Timer											
Weekly Timer											

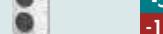
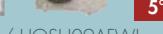
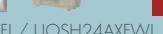
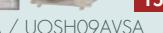
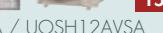
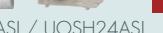
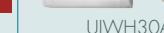
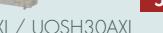
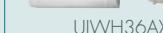
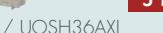
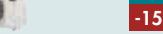
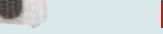
Apple Catechin Filter											
Cold Prevention											
Expanded Htg. Performance											
High Ceiling Mode											
Ion Deodorizing Filter											
Pump Down Operation											
Remote Temp. Sensor											
Third-Party Device Control											
-5°F Low Ambient Clg.											
Base Pan Heater											
Blue Fin Coil Protection											
Built-In Condensate Pump											
Daisy Chain											
Long Piping Length (164'+)											
Warranty: up to 10 Yr Comp / Parts											

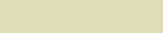
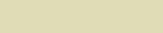
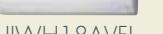
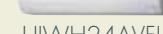
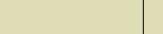
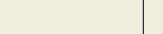
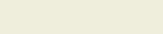
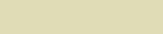
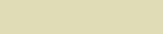
- Available only with optional wired remote control.
- ▲ Available only with optional wireless remote control.
- ◆ Available only with optional Fresh Air Intake Kit.
- ★ See bottom of Page 17 for qualifying combinations.
- Available only with optional wired remote controller and optional Interface Kit.
- Available only with optional Interface Kit. Operation monitoring and On / Off control only.
- ◆ Operation monitoring and On / Off control only.

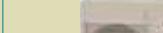
^ SEER and HSPF ratings depend on combination of indoor units and outdoor unit selected.
+ Auto Changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling. This feature is not recommended for systems with more than one indoor unit unless all indoor units have similar heating and cooling requirements and have similar temperature set points, auto changeover will work.
I 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	  14°F -5°F	  14°F -5°F	  14°F -5°F					
Ultra™ Series Wall Mount Low Temp Heating Operation	  14°F -15°F	  14°F -15°F	  14°F -15°F		  -5°F -15°F	  -5°F -15°F	  -5°F -15°F	
Achiever Plus® Series Wall Mount	  14°F 5°F	  14°F 5°F			  -5°F -5°F	  -5°F -5°F		
Achiever® Series Wall Mount	  15°F 15°F	  15°F 15°F			  14°F 5°F	  14°F 5°F	  14°F 5°F	  14°F 5°F
Ultra™ Series Floor Mount	  14°F -5°F	  14°F -5°F	  14°F -5°F					
Ultra™ Series Floor Mount Low Temp Heating Operation	  14°F -15°F	  14°F -15°F	  14°F -15°F					
Achiever® Series Compact Cassette	  14°F -5°F	  14°F -5°F			  14°F -5°F			
Achiever® Series Slim Duct	  14°F -5°F	  14°F -5°F			  14°F -5°F			

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	 	 	 			
Achiever Plus® Series Large Wall Mount				 		
Achiever Series Slim Duct	 	 	 	 	 	
Achiever Series Compact Cassette	 	 		 		
Achiever Series Floor Mount		 	 	 		

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)
	 14°F 5°F	 14°F 5°F	 14°F 5°F	 14°F 5°F

* 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

SINGLE-ZONE MINI-SPLIT SYSTEMS

Making the hottest places cool
and the coolest places more comfortable

- Extensive lineup from 9,000 to 42,000 BTU
- 38 different systems available in 7 indoor unit styles
- Energy efficient systems with SEER ratings as high as 33.0 and HSPF as high as 14.2
- 25 ENERGY STAR® qualified systems

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



¹ Available only with optional wired Remote Control and optional Interface Kit.

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

³ Low temperature heating operation models only

ENERGY SAVING PROGRAM

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.



HIGH PERFORMANCE HEATING

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

LOW TEMP HEATING SYSTEMS

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

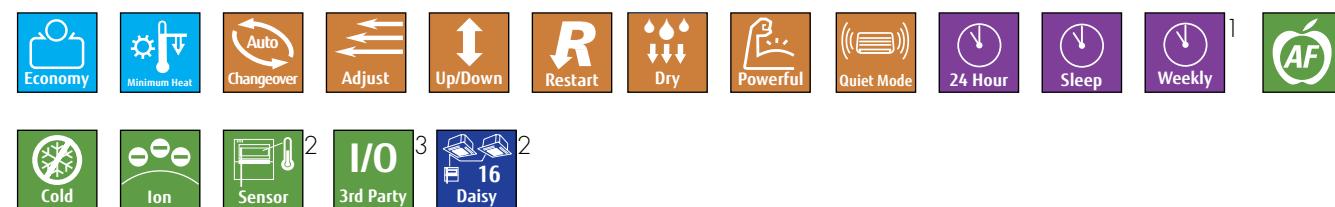


UP TO 33.0 SEER

Performance							
Nominal Cooling	BTU/HR	9,000	12,000	14,500	9,000	12,000	14,500
Min.-Max. Cooling	BTU/HR	3,100-12,000	3,100-13,600	3,100-18,400	3,100-12,000	3,100-13,600	3,100-18,400
Nominal Heating	BTU/HR	12,000	16,000	18,000	12,000	16,000	18,000
Min.-Max. Heating	BTU/HR	3,100-22,000	3,100-22,100	3,100-23,900	3,100-22,000	3,100-22,100	3,100-23,900
SEER		33.0	29.3	25.3	33.0	29.3	25.3
HSPF		14.2	14.0	13.4	14.0	13.8	13.3
EER		18.0	15.2	13.9	18.0	15.2	13.9
Cooling Operating Range	°F (°C)	14-115 (-10-46)	14-115 (-10-46)	14-115 (-10-46)	14-115 (-10-46)	14-115 (-10-46)	14-115 (-10-46)
Heating Operating Range	°F (°C)	-5-75 (-21-24)	-5-75 (-21-24)	-5-75 (-21-24)	-15-75 (-26-24)	-15-75 (-26-24)	-15-75 (-26-24)
Moisture Removal	Pt./h (l/h)	2.6 (1.2)	2.7 (1.3)	4.0 (1.9)	2.6 (1.2)	2.7 (1.3)	4.0 (1.9)
Max Htg % of Model # Capacity at +5°F (+15°C)*		171%	138%	140%	171%	138%	140%
Max Htg % of Model # Capacity at -5°F (-21°C)*		156%	125%	124%	156%	125%	124%
Max Htg % of Model # Capacity at -15°F (-26°C)*		-	-	-	123%	98%	109%
Fan							
Air Circulation: Hi	CFM (m ³ /h)	489 (830)	489 (830)	547 (930)	489 (830)	489 (830)	547 (930)
Air Circulation: Medium	CFM (m ³ /h)	400 (680)	400 (680)	459 (780)	400 (680)	400 (680)	459 (780)
Air Circulation: Low	CFM (m ³ /h)	341 (580)	341 (580)	371 (630)	341 (580)	341 (580)	371 (630)
Quiet	CFM (m ³ /h)	224 (380)	224 (380)	Clg 259 (440) Htg 294 (500)	224 (380)	224 (380)	Clg 259 (440) Htg 294 (500)
Fan Speed Stage		4+Auto	4+Auto	4+Auto	4+Auto	4+Auto	4+Auto
Sound							
Indoor Level (Clg/Htg): Hi	dB(A)	37/35	37/35	40/39	37/35	37/35	40/39
Indoor Level (Clg/Htg): Medium	dB(A)	37/35	37/35	40/39	37/35	37/35	40/39
Indoor Level (Clg/Htg): Low	dB(A)	32/31	32/31	34/33	32/31	32/31	34/33
Quiet	dB(A)	23/23	23/23	26/27	23/23	23/23	26/27
Outdoor Level Clg/Htg	dB(A)	42/47	43/47	49/50	42/47	43/47	49/50
Electrical							
Voltage/Frequency/Phase		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Circuit Breaker	Amps	15	15	20	15	15	20
Current Rated/Max: Cooling	Amps	2.5/9.4	3.8/9.4	4.8/9.9	2.5/9.4	3.8/9.4	4.8/9.9
Current Rated/Max: Heating	Amps	3.3/10.0	4.7/11.9	5.2/13.9	3.3/10.0	4.7/11.9	5.2/13.9
Power Use Rated/Max: Cooling	kW	0.50/0.85	0.79/0.99	1.04/1.56	0.50/0.85	0.79/0.99	1.04/1.56
Power Use Rated/Max: Heating	kW	0.66/1.93	1.01/1.94	1.15/2.19	0.66/1.93	1.01/1.94	1.15/2.19
Size & Weight							
Net Weight	lbs. (kg)	31 (14)	84 (38)	31 (14)	84 (38)	31 (14)	86 (39)
Height	Inch	11-5/8	24-7/16	11-5/8	24-7/16	11-5/8	24-7/16
	mm	295	620	295	620	295	620
Width	Inch	37	31-1/8	37	31-1/8	37	31-1/8
	mm	940	790	940	790	940	790
Depth	Inch	10-5/8	11-7/16	10-5/8	11-7/16	10-5/8	11-7/16
	mm	270	290	270	290	270	290
Refrigerant		R410A		R410A		R410A	
Additional Data							
Air Direction: Horizontal		Automatic		Automatic		Automatic	
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. 3/8	Dis. 1/4
		Suc. 1/2	Dis. 1/4	Suc. 1/2	Dis. 1/4	Suc. 1/2	Dis. 1/4
* Based on model # capacity class [e.g. 09AHWJ based on 9,000 BTU/HR] @ 70°F indoor setpoint. Refer to the Design & Technical Manual for more heating capacity data.							
Indoor	UWH09AHW	Indoor	UWH12AHW	Indoor	UWH15AHW	Indoor	UWH09AHW
Outdoor	UOSH09AHW	Outdoor	UOSH12AHW	Outdoor	UOSH15AHW	Outdoor	UOSH09AHW
Indoor	UWH12AHW	Indoor	UWH15AHW	Indoor	UWH09AHW	Indoor	UWH12AHW
Outdoor	UOSH12AHW	Outdoor	UOSH15AHW	Outdoor	UOSH09AHW	Outdoor	UOSH12AHW

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



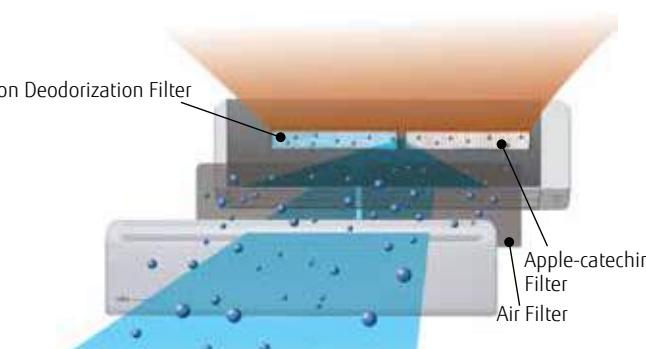
LONG-LIFE ION DEODORIZATION FILTER

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: UXRVN1UM*
- Wired Remote Control: UXRNN1UM*
- Simple Remote Control: UXRSNUM*
- Dry Contact Wire Kit: UXWZXZ5
- Interface Kit: UXCBXZ2

* Wall mounted UIWHD09, 12AVJ require accessory Interface Kit #UXCBXZ2 in order to connect these devices to them.

UP TO 23 SEER



9AFWJ		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 (m ³ /h)	441 (750)	441 (750)
Air Circulation: Medium	CFM (m ³ /h)	376 (640)	376 (640)
Air Circulation: Low	CFM (m ³ /h)	282 (480) Clg 306 (520) Htg	282 (480) Clg 306 (520) Htg
Quiet	CFM (m ³ /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)	60 (27)
Height	Inch	10-1/2	21-1/4
	mm	268	540
Width	Inch	33-1/16	26
	mm	840	660
Depth	Inch	8	11-7/16
	mm	203	290
Refrigerant		R410A	R410A
Additional Data			
Air Direction: Horizontal		Manual	Manual
Vertical		Automatic	Automatic
Air Filter		Washable	Washable
Minimum Lineset Length	Ft (m)	10 (3)	10 (3)
Maximum Lineset Length	Ft (m)	66 (20.1) (pre-charge: 49')	66 (20.1) (pre-charge: 49')
Max. Vertical Diff.	Ft (m)	49 (15)	49 (15)
Lineset Size	Inch	Suc. 3/8	Dis. 1/4
		Indoor UIWHD09AVJ	Outdoor UOSH09AFWJ
		Indoor UIWHD12AVJ	Outdoor UOSH12AFWJ

Note: Figures are based on 230 Volts.

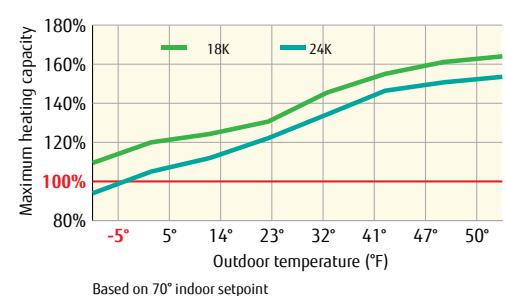
18 AND 24,000 BTU/HR WALL MOUNT HEAT PUMPS

¹ AXFWJ systems only.² AXFWJ systems require optional wired remote control.³ Available only with optional wired remote control.

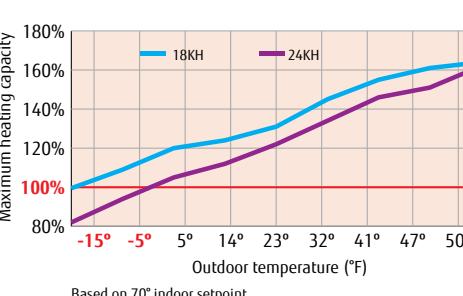
HIGH PERFORMANCE HEATING CAPACITY

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

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



AXFWJ



AHXHJ

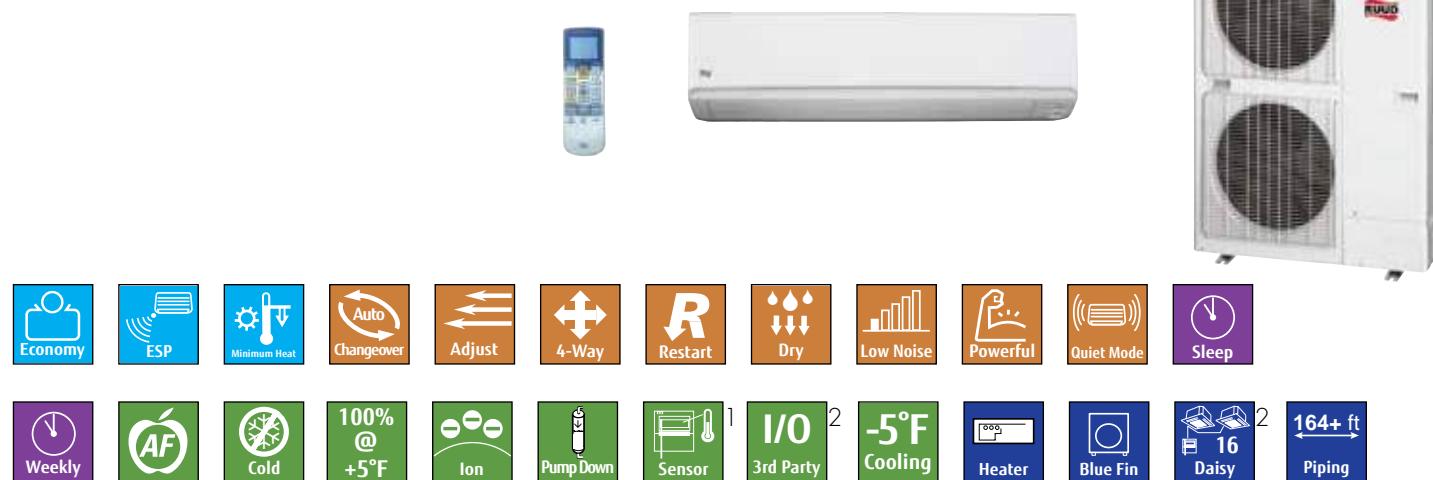
UP TO 20 SEER

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 (m ³ /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 (m ³ /h)	435 (740)	530 (900)	435 (740)	530 (900)
Air Circulation: Low CFM (m ³ /h)	365 (620)	435 (740)	365 (620)	435 (740)
Quiet CFM (m ³ /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	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
Height mm	320	830	320	830
Width Inch	39-1/4	35-3/8	39-1/4	35-3/8
Width mm	998	900	998	900
Depth Inch	9	13	9	13
Depth 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)	(pre-charge: 66')	164 (50)	(pre-charge: 65')
Max. Vertical Diff. Ft (m)	98 (30)	(pre-charge: 66')	98 (30)	(pre-charge: 65')
Lineset Size Inch	Suc. 5/8	Dis. 3/8	Suc. 5/8	Dis. 3/8
	Indoor UIVWH18AVF	Outdoor UOSH18AVF	Indoor UIVWH24AVF	Outdoor UOSH24AVF
	Indoor UIVWH18AVF	Outdoor UOSH18AVF	Indoor UIVWH24AVF	Outdoor UOSH24AVF

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



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:

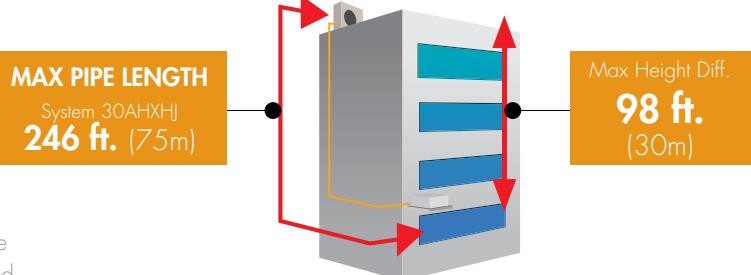
- Alternative Operation—units alternate operation, so neither unit is running at the same time.
- Backup Operation—if an error occurs on one unit, the second unit will turn on.
- Supporting Operation—if the setpoint cannot be reached with one unit alone, the second unit will come on to satisfy the demand 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 -15°F. See the full Low Temperature Heating Operation story on page 12.

ADDITIONAL APPLICATIONS THAT MAY REQUIRE LOW AMBIENT COOLING

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

OPTIONAL ACCESSORIES

- Wired Touch Panel Remote Controller: UXRNRUZ2[^]
- Wired Remote Control: UXRVNUM[^]
- Wired Remote Control: UXRNNUM[^]
- Simple Remote Control: UXRSNUM[^]
- Dry Contact Wire Kit: UXXWZX
- Interface Kit: UXCSXZ1
- Interface Kit Box: UXGXX
- Outdoor Unit Input/Output Connector: UTYXWZXZ3

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).¹



LOW TEMP HEATING SYSTEM 30RAHXHJ

30AHXHJ
 ENERGY STAR

UP TO 18.7 SEER

Performance		
Nominal Cooling	BTU/HR	30,000
Min.-Max. Cooling	BTU/HR	9,900-32,400
Nominal Heating	BTU/HR	32,000
Min.-Max. Heating	BTU/HR	8,000-37,500
SEER		18.7
HSPF		11.7
EER		12.5
Cooling Operating Range	°F (°C)	-5-115 (-20-46)
Heating Operating Range	°F (°C)	-15-75 (-26-24)
Moisture Removal	Pt./h (l/h)	9.7 (4.6)
Max Htg % of Model # Capacity at +5°F (-15°C)*		107%
Max Htg % of Model # Capacity at -5°F (-21°C)*		91%
Max Htg % of Model # Capacity at -15°F (-26°C)*		76%
Fan		
Air Circulation: Hi	CFM (m ³ /h)	812 (1,380)
Medium	CFM (m ³ /h)	665 (1,130)
Low	CFM (m ³ /h)	536 (910)
Quiet	CFM (m ³ /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)
Height	Inch	13-3/8 50-13/16
	mm	340 1,290
Width	Inch	45-1/4 35-3/8
	mm	1,150 900
Depth	Inch	11 13
	mm	280 330
Refrigerant		R410A
Additional Data		
Air Direction: Horizontal		Automatic
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
Indoor		UWUH30AHXHJ
Outdoor		UOSH30AHXHJ

*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.

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.

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 (m ³ /h)	436 (740)	436 (740)
Air Circulation: Medium	CFM (m ³ /h)	353 (600)	353 (600)
Air Circulation: Low	CFM (m ³ /h)	265 (450)	265 (450)
Quiet	CFM (m ³ /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)
	Inch	10-5/16	21-1/4
	mm	262	540
Height	Inch	32-9/32	26
	mm	820	660
Width	Inch	8-1/8	11-11/32
	mm	206	290
Depth	Inch		206
	mm		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 UWH09AVSA		Outdoor UOSH09AVSA	Indoor UWH12AVSA
			Outdoor UOSH12AVSA

Note: Figures are based on 115 Volts.

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

SYSTEMS
18ASJ, 24ASJ, 30AXJ, 36AXJUOSH18ASJ
UOSH24ASJUOSH30AXJ
UOSH36AXJ¹ 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: UXWZX

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.

UP TO 19.0 SEER

18ASJ	24ASJ	30AXJ	36AXJ

Performance							
Nominal Cooling	BTU/HR	18,000	24,000	30,000	33,000		
Min.-Max. Cooling	BTU/HR	3,100-19,000	3,100-25,000	9,900-32,400	9,900-34,100		
Nominal Heating	BTU/HR	18,000	24,000	30,000	34,000		
Min.-Max. Heating	BTU/HR	7,000-20,000	7,500-27,000	8,000-33,000	10,200-35,000		
SEER		19.0	18.0	16.5	15.5		
HSPF		10.6	10.6	9.0	9.0		
EER		12.5	10.0	9.5	8.5		
Cooling Operating Range	°F (°C)	14-115 (-10-46)	14-115 (-10-46)	14-115 (-10-46)	14-115 (-10-46)		
Heating Operating Range	°F (°C)	5-75 (-15-24)	5-75 (-15-24)	5-75 (-15-24)	5-75 (-15-24)		
Moisture Removal	Pt./h (l/h)	4.0 (1.9)	6.3 (3.0)	9.7 (4.6)	10.1 (4.8)		
Fan							
Air Circulation: Hi	CFM (m ³ /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 (m ³ /h)	439 (740)	530 (900)	530 (900)	530 (900)		
Air Circulation: Low	CFM (m ³ /h)	365 (620)	436 (740)	436 (740)	436 (740)		
Quiet	CFM (m ³ /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	1.5	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)	
Height	Inch	12-5/8	24-7/16	12-5/8	24-7/16	12-5/8	
	mm	320	620	320	620	320	
Width	Inch	39-5/16	31-1/8	39-5/16	31-1/8	39-5/16	
	mm	998	790	998	790	998	
Depth	Inch	9	11-7/16	9	11-7/16	9	
	mm	228	290	228	290	228	
Refrigerant		R410A	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	
				Suc.5/8	Dis.3/8	Suc.5/8	
				Dis.3/8		Dis.3/8	
Indoor	UIW18ASJ	Outdoor	UOSH18ASJ	Indoor	UIW24ASJ	Outdoor	UOSH24ASJ
UIW30AXJ	UOSH30AXJ	UIW36AXJ	UOSH36AXJ	Indoor	UIW30AXJ	Outdoor	UOSH36AXJ

Note: Figures are based on 230 Volts.

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

¹ Available with optional wired remote control.² AFFHJ models only.

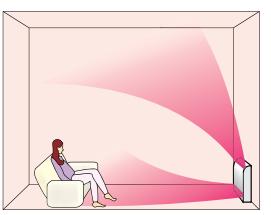
IDEAL RADIATOR REPLACEMENT



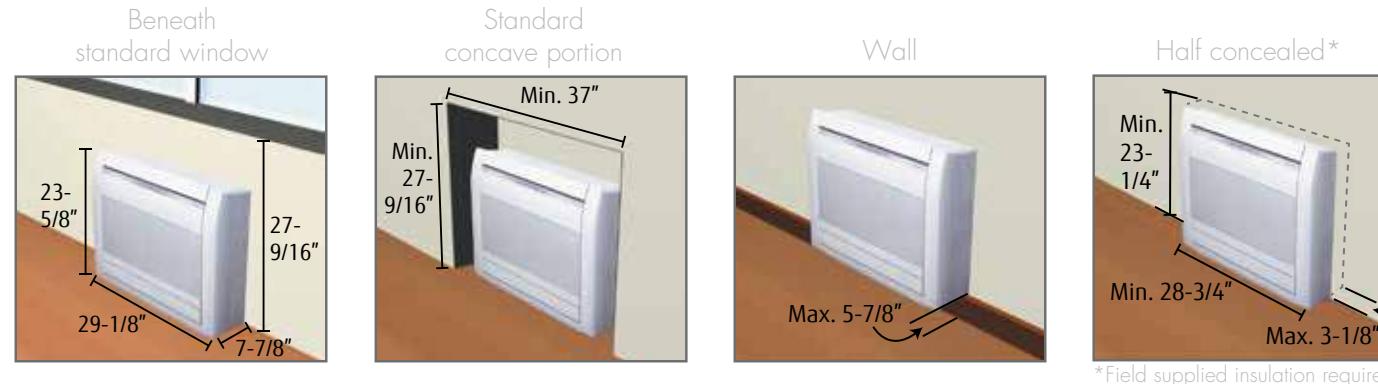
At less than 24" high and 30" wide, floor mount models fit easily under a standard window and can replace a radiator twice its size while producing more capacity.

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

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

UP TO 26 SEER

Performance

Nominal Cooling	BTU/HR	9,000	12,000	14,200	9,000	12,000	14,200
Min.-Max. Cooling	BTU/HR	3,100-13,000	3,100-14,300	3,100-17,700	3,100-13,000	3,100-14,300	3,100-17,700
Nominal Heating	BTU/HR	12,000	16,000	18,000	12,000	16,000	18,000
Min.-Max. Heating	BTU/HR	3,100-18,800	3,100-22,100	3,100-23,900	3,100-18,800	3,100-19,500	3,100-20,800
SEER		26.0	22.7	20.3	26.0	22.7	20.3
HSPE		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 (m ³ /h)	335 (570)	335 (570)	383 (650)	335 (570)	335 (570)	383 (650)
Air Circulation: Medium	CFM (m ³ /h)	271 (460)	271 (460)	306 (520)	271 (460)	271 (460)	306 (520)
Air Circulation: Low	CFM (m ³ /h)	212 (360)	212 (360)	235 (400)	212 (360)	212 (360)	235 (400)
Quiet	CFM (m ³ /h)	159 (270)	159 (270)	159 (270)	159 (270)	159 (270)	159 (270)
Fan Speed Stage		4+Auto	4+Auto	4+Auto	4+Auto	4+Auto	4+Auto

Sound

Indoor Level (Clg/Htg): Hi	dB(A)	40/40	40/40	44/43	40/40	40/40	44/43
Indoor Level (Clg/Htg): Medium	dB(A)	35/35	35/35	38/37	35/35	35/35	38/37
Indoor Level (Clg/Htg): Low	dB(A)	29/29	29/29	31/29	29/29	29/29	31/29
Quiet	dB(A)	23/23	23/23	23/23	23/23	23/23	23/23
Outdoor Level Clg/Htg	dB(A)	50/50	52/52	54/54	50/50	52/52	54/54

Electrical

Voltage/Frequency/Phase		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Circuit Breaker	Amps	15	15	20	15	15	20
Current Rated: Cooling	Amps	2.9	4.2	5.1	2.9	4.2	5.1
Current Rated: Heating	Amps	4.1	6.7	7.0	4.1	6.7	7.0
Power Use Rated: Cooling	kW	.56	.97	1.13	.56	.97	1.13
Power Use Rated: Heating	kW	.88	1.44	1.58	.88	1.44	1.58

Size & Weight

Net Weight	lbs. (kg)	31 (14)	84 (38)	31 (14)	84 (38)	31 (14)	86 (39)	31 (14)	86 (39)	31 (14)	86 (39)	31 (14)	88 (40)
Height	Inch	23-5/8	24-7/16	23-5/8	24-7/16	23-5/8	24-7/16	23-5/8	24-7/16	23-5/8	24-7/16	23-5/8	24-7/16
	mm	600	620	600	620	600	620	600	620	600	620	600	620
Width	Inch	29-1/8	31-1/8	29-1/8	31-1/8	29-1/8	31-1/8	29-1/8	31-1/8	29-1/8	31-1/8	29-1/8	31-1/8
	mm	740	790	740	790	740	790	740	790	740	790	740	790
Depth	Inch	7-7/8	11-7/16	7-7/8	11-7/16	7-7/8	11-7/16	7-7/8	11-7/16	7-7/8	11-7/16	7-7/8	11-7/16
	mm	200	290	200	290	200	290	200	290	200	290	200	290

Refrigerant

	R410A	R410A	R410A	R410A	R410A	R410A
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Additional Data

Air Direction: Horizontal		Manual	Manual	Manual	Manual	Manual
Vertical		Auto	Auto	Auto	Auto	Auto
Air Filter		Washable	Washable	Washable	Washable	Washable
Minimum Lineset Length	Ft (m)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)
Maximum Lineset Length	Ft (m)	66 (20) (pre-charge: 49')				
Max. Vertical Differential	Ft (m)	49 (15)	49 (15)	49 (15)	49 (15)	49 (15)
Lineset Size	Inch	Suc. 3/8	Dis. 1/4	Suc. 3/8	Dis. 1/4	Suc. 3/8
		Indoor	Outdoor	Indoor	Outdoor	Indoor
		UIFH09AVF	UOSH09AFFH	UIFH12AVF	UOSH12AFFH	UIFH15AVF
		Outdoor	Indoor	Outdoor	Indoor	Outdoor
		UOSH09AFFH	UIFH12AVF	UOSH12AFFH	UIFH15AFFH	UOSH15AFFH

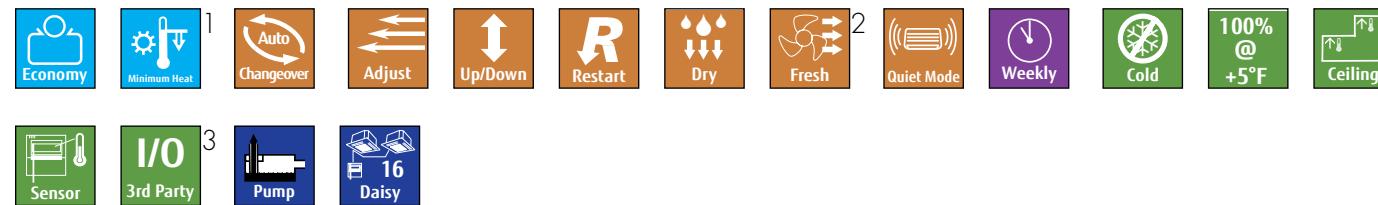
* Based on model # capacity class (e.g. 9RLS3Y based on 9,000 BTU/HR) @ 70°F indoor setpoint. Refer to the Design & Technical Manual for more heating capacity data.

<p

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.



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" 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.

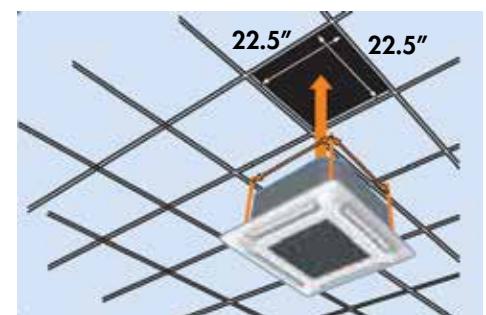
³ Available only with optional Interface Kit. Operation monitoring and On / Off control only.

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.

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



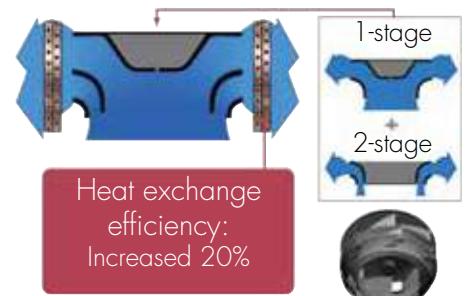
OPTIONAL ACCESSORIES

- Wired Remote Control: UXRVN
- Wireless remote UXLNH
- Fresh Air Kits UXVXAA



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.



UP TO 24.0 SEER

09AFCJ		12AFCJ		18AFCJ					
UP TO 24.0 SEER									
Performance									
Nominal Cooling	BTU/HR	9,000	12,000	18,000					
Min.-Max. Cooling	BTU/HR	3,100-12,000	3,100-13,600	3,100-20,100					
Nominal Heating	BTU/HR	12,000	16,000	21,600					
Min.-Max. Heating	BTU/HR	3,100-18,000	3,100-19,400	3,100-25,600					
SEER		24.0	21.9	20.1					
HSPF		13.0	12.2	11.5					
EER		14.5	12.8	11.2					
Cooling Operating Range	°F (°C)	14-115 (-10-46)	14-115 (-10-46)	14-115 (-10-46)					
Heating Operating Range	°F (°C)	-5-75 (21-24)	-5-75 (21-24)	-5-75 (21-24)					
Moisture Removal	Pt./h (l/h)	1.3 (.06)	2.5 (1.2)	4.6 (2.2)					
Fan									
Air Circulation: Hi	CFM (m ³ /h)	318 (540) Clg or Htg	359 (610) Clg or Htg	400 (680) Clg 471 (800) Htg					
Air Circulation: Medium	CFM (m ³ /h)	288 (490) Clg or Htg	312 (530) Clg or Htg	341 (580) Clg 400 (680) Htg					
Air Circulation: Low	CFM (m ³ /h)	259 (440) Clg or Htg	277 (470) Clg or Htg	288 (490) Clg 341 (580) Htg					
Quiet	CFM (m ³ /h)	230 (390) Clg or Htg	241 (410) Clg or Htg	241 (410) Clg 265 (450) Htg					
Fan Speed Stage									
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)				
Height	Inch	9-11/16	1-15/16	9-11/16	1-15/16				
	mm	245	49	620	49				
Width	Inch	22-7/16	27-9/16	31-3/32	22-7/16				
	mm	570	700	790	570				
Depth	Inch	22-7/16	27-9/16	11-11/32	22-7/16				
	mm	570	700	290	570				
Refrigerant									
Additional Data									
Air Direction: Vertical		Automatic		Automatic					
Air Filter		Washable		Washable					
Minimum Lineset Length	Ft (m)	10 (3)		10 (3)					
Maximum Lineset Length	Ft (m)	66 (20)		(pre-charge: 49')					
Max. Vertical Diff.	Ft (m)	(pre-charge: 49')		(pre-charge: 49')					
Lineset Size	Inch	suc 3/8	dis 1/4	suc 3/8	dis 1/4				
		Indoor UJCH09AVF	Grille UXCCGF	Outdoor UOSH09AFCJ	Indoor UJCH12AVF				
		Indoor UJCH12AVF	Grille UXCCGF	Outdoor UOSH12AFCJ	Indoor UJCH18AVF				
		Indoor UJCH18AVF	Grille UXCCGF	Outdoor UOCH18AFCJ	Indoor UXCCGF				
		Indoor UXCCGF	Grille UXCCGF	Outdoor UXCCGF	Indoor UXCCGF				

Note: Figures are based on 230-Volts.

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



¹ Available only with optional wireless remote control.

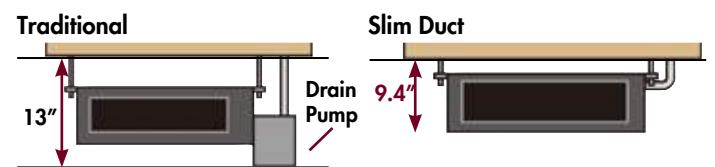
² Available only with optional Interface Kit. Operation monitoring and On / Off control only.

FUNCTION

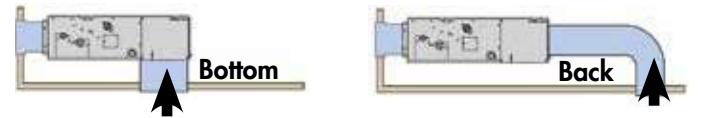
Slim ducts provide cooling or heating for small room applications such as offices, restaurants, convenience stores, motels, dorms, in retrofit and new construction. Long maximum combined piping length of 66'D and 49" height allow for versatile installations. Either horizontal or vertical flexibility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



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.

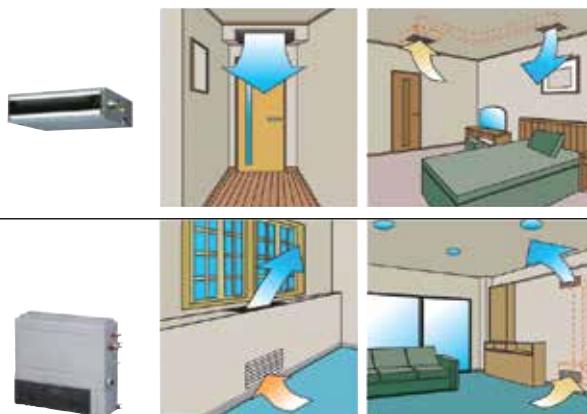


A fiberglass filter is shown in blue to the left. A MERV pleated filter is shown in white.

	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
SP Loss, in. W.C.	0.04	0.05	0.04
Available Static Pressure	0.32	0.31	0.32
SP Loss, in. W.C.	0.12	0.14	0.14
Available Static Pressure	0.24	0.22	0.22
SP Loss, in. W.C.	0.07	0.08	0.08
Available Static Pressure	0.29	0.28	0.28

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



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 (.07)	2.7 (1.3)	4.2 (2.0)	
Fan					
Air Circulation: Hi	CFM (m3/h)	353 (600)	383 (650)	554 (940)	
Air Circulation: Medium	CFM (m3/h)	324 (550)	353 (600)	518 (880)	
Air Circulation: Low	CFM (m3/h)	294 (500)	324 (550)	483 (820)	
Quiet	CFM (m3/h)	265 (450)	283 (480)	442 (750)	
Fan Speed Stage		4+auto	4+auto	4+auto	
Sound					
Indoor 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)	84 (38)	84 (38)	86 (39)
Height	Inch	7-25/32	5-15/16	6	24-1/2
	mm	198	151	152	620
Width	Inch	27-9/16	25-19/32	22	31-3/32
	mm	700	650	559	790
Depth	Inch	13-13/32	3/4	11-11/32	11-13/32
	mm	620	19	19 Flat	290
Refrigerant		R410A		R410A	
Additional Data					
Static Pressure in. W. C.		0-0.36		0-0.36	
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 Size	Inch	suc 3/8		dis 1/4	
			suc 3/8		dis 1/4
				suc 1/2	
					dis 1/4
	Indoor UIDH09AVFJ	SUPPLY DUCT FLANGE	RETURN DUCT	Outdoor UIDH12AVFJ	SUPPLY DUCT FLANGE
				Indoor UIDH12AVFJ	RETURN DUCT
				Outdoor UIDH18AVFJ	SUPPLY DUCT FLANGE
				Indoor UIDH18AVFJ	RETURN DUCT
				Outdoor UIDH18AVFJ	RETURN DUCT

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.



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		✓	✓	✓



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

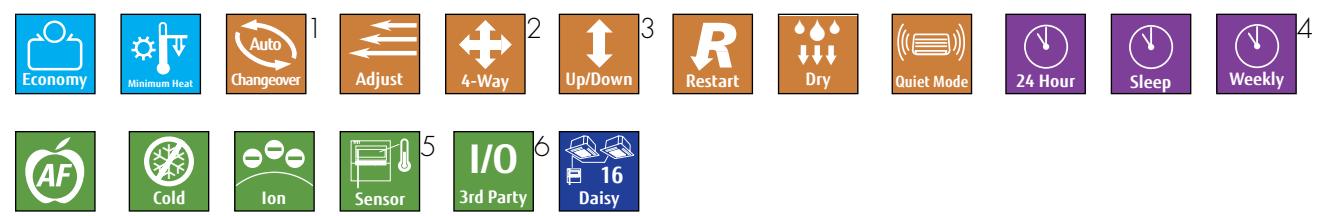
MULTI-ZONE INDOOR



UIWH07, 09, 12, 15AVFJ



UIWH18, 24AVFJ



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 UIWH18, 24AVFJ models only.

³ UIWH07, 09, 12, 15AVFJ models only.

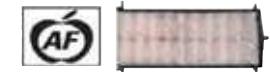
BUILT IN FILTRATION

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.

UIWHO7AVFJ, UIWHO9AVFJ, UIWH12AVFJ,
UIWH15AVFJ, UIWH18AVFJ, UIWH24AVFJ

	UIWHO7AVFJ	UIWHO9AVFJ	UIWH12AVFJ	UIWH15AVFJ	UIWH18AVFJ	UIWH24AVFJ
Performance						
Nominal Cooling	BTU/HR	7,000	9,000	12,000	14,000	18,000
Nominal Heating	BTU/HR	8,100	10,200	13,500	16,300	20,000
Fan						
Air Circulation: Hi	CFM (m ³ /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)
Air Circulation: Medium	CFM (m ³ /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)
Air Circulation: Low	CFM (m ³ /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)
Quiet	CFM (m ³ /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)
Fan Speed Stage						
4+auto	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
Indoor Sound Level (Clg/Htg): Medium	dB(A)	32/32	33/33	36/36	38/38	37/37
Indoor Sound Level (Clg/Htg): Low	dB(A)	29/29	29/29	30/31	33/35	33/33
Quiet	dB(A)	21/22	21/22	21/22	25/27	31/31
Electrical						
Voltage/Frequency/Phase		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
Current Rated: Heating	Amps	0.13	0.15	0.19	0.25	0.32
Power Use Rated: Cooling	W	15	17	22	28	41
Power Use Rated: Heating	W	15	17	22	28	41
Size & Weight						
Net Weight	lbs. (kg)	19 (8.5)	19 (8.5)	19 (8.5)	19 (8.5)	31 (14)
Height	Inch	10-1/2	10-1/2	10-1/2	10-1/2	12-5/8
	mm	268	268	268	268	320
Width	Inch	33-1/16	33-1/16	33-1/16	33-1/16	39-1/4
	mm	840	840	840	840	998
Depth	Inch	8	8	8	8	9
	mm	203	203	203	203	228
Refrigerant						
Additional Data		R410A	R410A	R410A	R410A	R410A
Air Direction: Horizontal		Manual	Manual	Manual	Manual	Auto
Vertical		Auto	Auto	Auto	Auto	Auto
Primary Air Filter		Washable	Washable	Washable	Washable	Washable
Ion Deodorizing Filter		Disposable	Disposable	Disposable	Disposable	Disposable
Apple-Catechin Filter		Disposable	Disposable	Disposable	Disposable	Disposable
Lineset Size	Inch	suc 3/8	suc 3/8	suc 3/8	suc 1/4 dis 1/2	suc 5/8

The following combinations are ENERGY STAR® qualifying:

		UOMH18AFXJ with (2) UIWHO9AVFJ UOMH18AFXJ with (1) UIWHO7AVFJ + (1) UIWH12AVFJ UOMH18AFXJ with (1) UIWHO9AVFJ + (1) UIWH12AVFJ
		UOMH24AFXJ with (2) UIWHO7AVFJ + (1) UIWHO9AVFJ

7, 9, 12, 18, 24,000 BTU/HR SLIM DUCT

MULTI-ZONE INDOOR



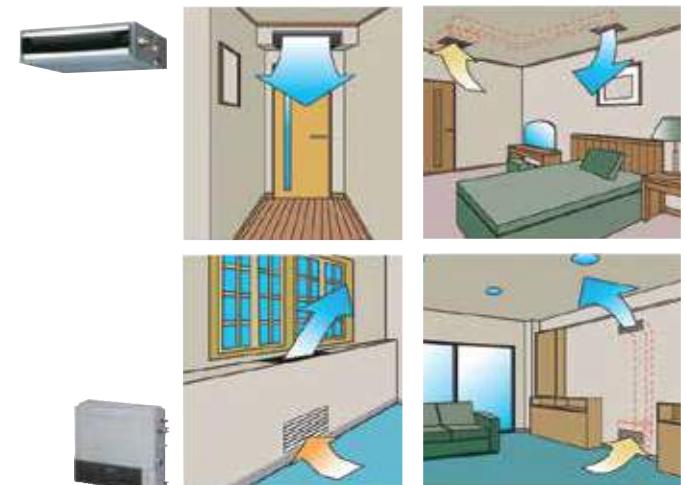
¹ Available only with optional wireless remote control.

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 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

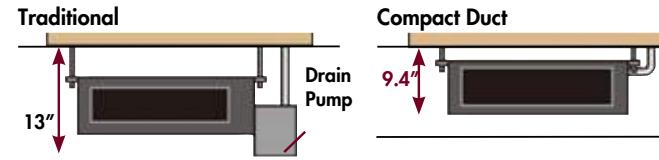
Filters are sized to keep velocities and static pressure loss low. This will ensure sufficient static pressure is available for ductwork, fittings and supply and return grilles.

Alternative filter sizes with equivalent face areas can be used.

	RIDH07AVFJ	RIDH09AVFJ	RIDH12AVFJ	RIDH18AVFJ	RIDH24AVFJ
CFM	323	353	383	554	785
Typical Filter Size Velocity, FPM	12 x 20	12 x 20	12 x 20	14 x 25	18 x 30
Unit External SP, in. W.C.	194	212	230	228	209
	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

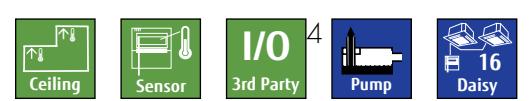
Adaptable when ceiling cavity is small and there is no slope for drain.



	RIDH07AVFJ	RIDH09AVFJ	RIDH12AVFJ	RIDH18AVFJ	RIDH24AVFJ
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)	323 (550)	353 (600)	383 (650)	554 (940)
Air Circulation: Medium	CFM (m3/h)	288 (490)	324 (550)	353 (600)	518 (880)
Air Circulation: Low	CFM (m3/h)	276 (470)	294 (500)	324 (550)	483 (820)
Quiet	CFM (m3/h)	259 (440)	265 (450)	283 (480)	442 (750)
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
Indoor Sound Level (Clg/Htg): Medium	dB(A)	26/26	27/26	28/28	31/32
Indoor Sound Level (Clg/Htg): Low	dB(A)	25/25	26/25	27/27	30/31
Quiet	dB(A)	24/24	25/24	26/24	29/29
Electrical					
Voltage/Frequency/Phase		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	0-0.20
Current Rated: Cooling	Amps	0.30	0.30	0.35	0.44
Current Rated: Heating	Amps	0.30	0.30	0.35	0.44
Power Use Rated: Cooling	W	33	49	58	73
Power Use Rated: Heating	W	33	49	58	73
Size & Weight					
Net Weight	lbs. (kg)	37 (17)	41 (19)	41 (19)	50 (23)
Height	Inch	7-25/32	7-25/32	7-25/32	7-25/32
	mm	198	198	198	198
Width	Inch	27-9/16	27-9/16	27-9/16	35-7/16
	mm	700	700	700	900
Depth	Inch	24-13/32	24-13/32	24-13/32	24-13/32
	mm	620	620	620	620
Supply Duct Flange Height	Inch	5-15/16	5-15/16	5-15/16	5-15/16
	mm	151	151	151	151
Supply Duct Flange Width	Inch	25-19/32	25-19/32	25-19/32	33-15/32
	mm	650	650	650	850
Supply Duct Flange Depth	Inch	3/4	3/4	3/4	3/4
	mm	19	19	19	19
Return Duct Height	Inch	6	6	6	6
	mm	152	152	152	152
Return Duct Width	Inch	22	22	22	30
	mm	559	559	559	762
Return Duct Depth	Inch	3/4 (Flat)	3/4 (Flat)	3/4 (Flat)	3/4 (Flat)
	mm	19 (Flat)	19 (Flat)	19 (Flat)	19 (Flat)
Refrigerant		R410A	R410A	R410A	R410A
Additional Data					
Air Filter		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 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.

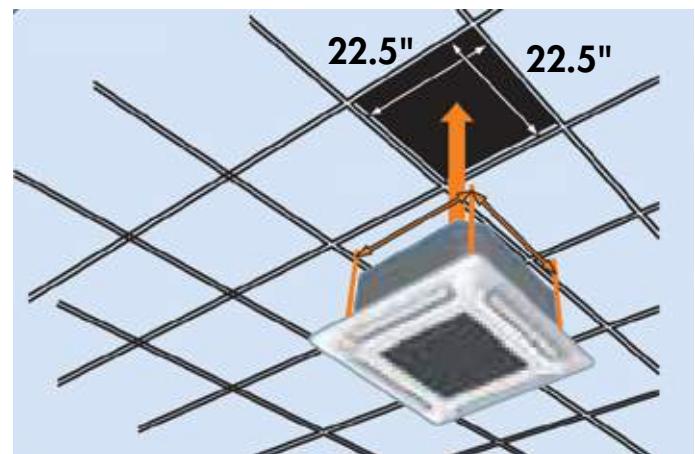
² Auto Changeover is not designed to provide rapid changes between heating and cooling operation or simultaneous heating and cooling. This feature is not recommended for systems with more than one indoor unit unless all indoor units have similar heating and cooling requirements and have similar temperature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

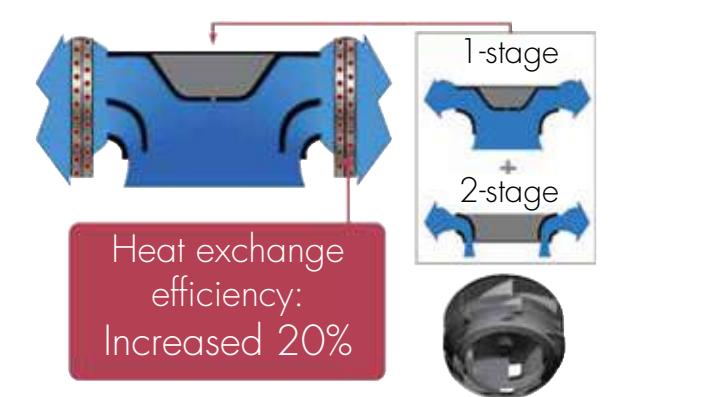
EASY INSTALLATION

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



2-STAGE TURBO FAN

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



FRESH AIR KITS



UXVXAA

Mixes room air then passes through the heat exchanger.

RICH07AVFJ, RICH09AVFJ,
RICH12AVFJ, RICH18AVFJ

	RICH07AVFJ	RICH09AVFJ	RICH12AVFJ	RICH18AVFJ
Performance				
Nominal Cooling	BTU/HR	7,000	9,000	12,000
Nominal Heating	BTU/HR	8,100	10,200	13,500
Fan				
Air Circulation: Hi	CFM (m ³ /h)	318 (540) Clg or Htg	318 (540) Clg or Htg	359 (610) Clg or Htg
Air Circulation: Medium	CFM (m ³ /h)	288 (490) Clg or Htg	288 (490) Clg or Htg	312 (530) Clg or Htg
Air Circulation: Low	CFM (m ³ /h)	259 (440) Clg or Htg	259 (440) Clg or Htg	306 (520) Clg
Quiet	CFM (m ³ /h)	230 (390) Clg or Htg	230 (390) Clg or Htg	241 (410) Clg or Htg
Fan Speed Stage				
		4+auto	4+auto	4+auto
Sound				
Indoor Sound Level (Clg/Htg): Hi	dB(A)	33/34	33/34	37/37
Indoor Sound Level (Clg/Htg): Medium	dB(A)	31/32	31/32	33/33
Indoor Sound Level (Clg/Htg): Low	dB(A)	29/29	29/29	31/31
Quiet	dB(A)	27/27	27/27	28/28
Electrical				
Voltage/Frequency/Phase		208-230/60/1	208-230/60/1	208-230/60/1
Current Rated: Cooling	Amps	0.15	0.15	0.19
Current Rated: Heating	Amps	0.15	0.15	0.19
Power Use Rated/Max: Cooling	(kw)	18	18	23
Power Use Rated/Max: Heating	(kw)	18	18	23
Size & Weight				
Net Weight	lbs. (kg)	33 (15)	33 (15)	33 (15)
Height	Inch	9-11/16	9-11/16	9-11/16
	mm	245	245	245
Width	Inch	22-7/16	22-7/16	22-7/16
	mm	570	570	570
Depth	Inch	22-7/16	22-7/16	22-7/16
	mm	570	570	570
Refrigerant				
		R410A	R410A	R410A
Additional Data				
Air Direction: Vertical		Automatic	Automatic	Automatic
Air Filter		Washable	Washable	Washable
Front Grille		UXCCGF*	UXCCGF*	UXCCGF*
Grille Dim: Height	Inch (mm)	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)
Depth	Inch (mm)	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	suc 1/2 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

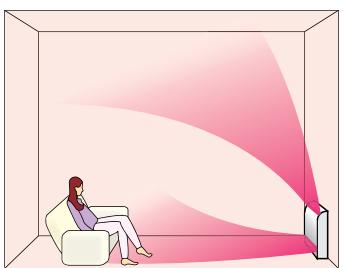


¹ Available with optional wired remote control.

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

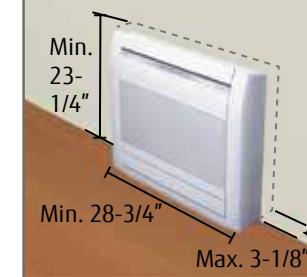
2-FAN AND WIDE AIRFLOW

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.



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.

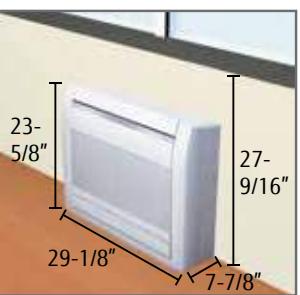
1. Upon startup, both top and bottom louvers open.
2. Closer to setpoint, only the top louver stays open to help prevent cold drafts from windows.



*Field supplied insulation required

FLEXIBLE AND EASY INSTALLATION

Beneath
standard window

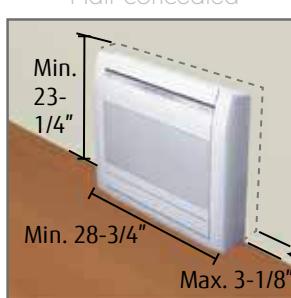


Standard
concave portion



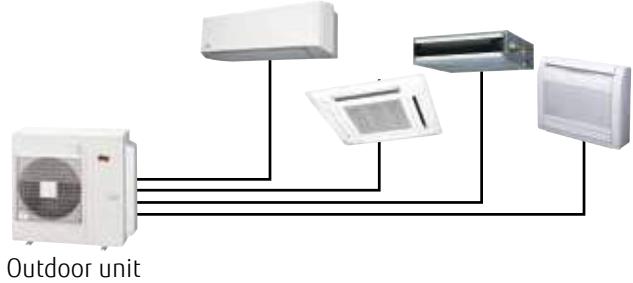
Wall

Half concealed*



	RIFH09AVFJ	RIFH12AVFJ	RIFH15AVFJ	
Performance				
Nominal Cooling	BTU/HR	9,000	12,000	14,200
Nominal Heating	BTU/HR	12,000	16,000	18,000
Fan				
Air Circulation: Hi	CFM (m ³ /h)	312 (530)	353 (600)	383 (650)
Air Circulation: Medium	CFM (m ³ /h)	259 (440)	288 (490)	306 (520)
Air Circulation: Low	CFM (m ³ /h)	212 (360)	224 (380)	235 (400)
Quiet	CFM (m ³ /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	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.



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.

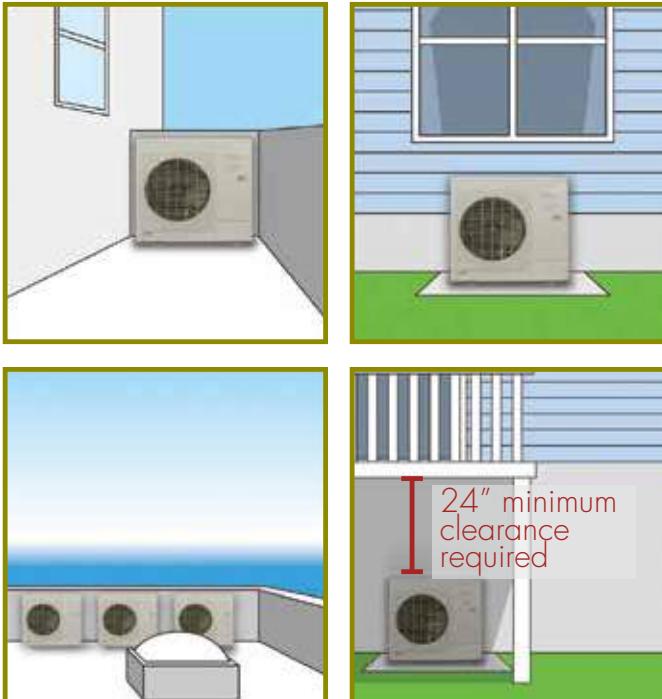


Model	Indoor Unit		Cooling Capacity BTU/HR 95°F	EER	SEER	Heating Rated Capacity BTU/HR		COP	HSPF		
	Type	Combination				47°F	17°F				
	47°F	17°F	17°F	50°F	47°F						
UOMH 18AFXZJ	Non-Ducted	9+9	18,000	12.5	18.0	22,000	13,900	16,300	13,900	3.44	9.3
	Ducted	9+9	18,000	12.1	16.0	22,000	13,900	16,300	13,900	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



COMPACT SIZE

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



UOMH18AFXZJ, UOMH24AFXZJ, UOMH36AFXZJ, UOMH45AFXZJ

UOMH18AFXZJ UIHW09+UIWH09	UOMH24AFXZJ UIWH09+ UIWH07+UIWH07	UOMH36AFXZJ UIWH09 x 4	UOMH45AFXZJ UIWH09 x 5
Performance			
Connectable Indoor Units	2	2 to 3	2* to 4
Connectable Unit Capacity Class	BTU/HR	14 to 21,000 ¹	14 to 27,000 ¹
Rated Capacity Cooling / Heating	BTU/HR	18,000 / 22,000	22,000 / 24,000
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)
Electrical			
Rated Input Power Clg/Htg	kW	1.44/1.87	1.76/1.73
Voltage/Frequency/Phase		208-230/60/1	208-230/60/1
Maximum Total Current	Amps	10.0	13.7
Minimum Circuit Ampacity	Amps	12.1	16.7
Maximum Circuit Breaker	Amps	15	20
Fan: Type x Quantity		Propeller x 1	Propeller x 1
Sound Pressure Level Cooling	dB(A)	49	51
Sound Pressure Level Heating	dB(A)	49	52
Lineset Requirements			
Minimum Lineset Length Each	ft(m)	16 (5)	16 (5)
Maximum Lineset Length Each	ft(m)	82 (25)	82 (25)
Minimum Lineset Length Total	ft(m)	49 (15)	49 (15)
Maximum Lineset Length Total	ft(m)	164 (50)	164 (50)
Pre-Charge Length Total	ft(m)	98 (30)	98 (30)
Maximum Lineset Height Difference Btwn Outdoor Unit & Furthest Indoor Unit	ft(m)	49 (15)	49 (15)
Maximum Lineset Height Difference Btwn Indoor Units	ft(m)	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
Size & Weight			
Net Weight	lbs. (kg)	119 (54)	124 (56)
Height	Inch	27.9/16	27.9/16
	mm	700	700
Width	Inch	35.7/16	35.7/16
	mm	900	900
Depth	Inch	13	13
	mm	330	330
Refrigerant		R410A	R410A

* 18+18 is the only 2 indoor unit (UIWH, UIDH or UICH) combination and requires K9FZ1818

¹See 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.

CONTROLS

Wired Remote Control

UXRNNUM
UXRNBYU
3-Wire



The wired remote control with its unique lock function and sleek design provides full feature access to property managers, building owners, and facility maintenance, as well as providing basic comfort features to tenants, employees, and teachers.

Remote Sensor

UXS7X

Wall mounted room temperature sensor for slim duct models. Replaces room temperature sensor in the return when installed while still allowing for temperature correction.

Central Controller

UXDMMUM
3-Wire



This remote controls up to 8 individual indoor units. Set temperatures on timers to best meet individuals needs. Includes a large backlit LCD and 4-way navigation pad. Remote connects in daisy chain to branch boxes.

Central Controller

Receiver Unit

UXDMMUM
3-Wire

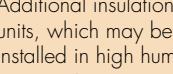
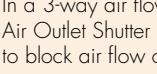


Group Control: With this feature, multiple evaporators can be 'daisy-chained' together on one single remote control, allowing for multiple single-zoned systems installed in an application to be grouped together by evaporator. The same feature can be used on a multi-zone system however, multiple multi-zone systems cannot be grouped together nor can a single-zone system be group controlled with a multi-zone system.

INTERFACE KITS

<p>Dry Contact Wire Kit* RXXWZX / RXXWZX5</p>  <p>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.</p>	<p>Interface Kit RXXCBXZ2</p>  <p>Required to connect UIWH07, 09, and 12AVFj to Wired Remotes RXRNNUM and RXRVNUM, Dry Contact Wire Kit RXXWZX, and Simple Remote Control RXRSNUM.</p>	<p>Interface Kit RXTWBF1</p>  <p>Required to connect the 09, 12, 15AHWJ / AHHJ to Wired Remotes RXRNNUM and RXRVNUM, Dry Contact Wire Kit RXXWZX5, and Simple Remote Control RXRSNUM.</p>
<p>Slim Duct Connector Kit UTD-ECS5A</p>  <p>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.</p>	<p>Outdoor Unit Input/Output Connector UTY-XWZXZ3</p>  <p>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.</p>	<p>Interface Kit RXXCSXZ1</p>  <p>Required to connect UIWH30AVFj to Dry Contact Wire Kit UTY-XWZX3, and Lead Lag Control function^.</p>
<p>Interface Kit Box RXGXXB</p>  <p>Used to conceal Interface Kit RXXCSXZ1.</p>	<p>* Will reduce capacity. ^ Wired remotes cannot be used when using this feature. This includes UTY-RNRUZ1, RXRVNUM, RXRNNUM</p>	

FRESH AIR INTAKE KITS

<h3>High Humidity Insulation Kit</h3> <p>RXKXGC</p> <p>Additional insulation for compact cassette units, which may be needed when they are installed in high humidity areas.</p> 	<h3>Air Outlet Shutter Plate</h3> <p>UTR-YDZB</p> <p>In a 3-way air flow configuration an Air Outlet Shutter Plate kit is required to block air flow of 1 louver.</p> 	<h3>Fresh Air Intake Kit</h3> <p>RXVXAA</p>  <p>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.</p>
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MISCELLANEOUS

<p>3-Pole Single Throw Safety Switch RXK3PST</p> <p>For use where code requires a disconnect at the indoor unit.</p> 	<p>R410A Swivel Adapter RXK9R410A55</p> <p>In order to minimize incorrect charging of systems with R22 Ruud® uses a different access port. Contractors will need this 55° swivel access fitting.</p> 
<p>18+18 Combo Fittings Kit RXK9FZ1818</p>  <p>Allows two 18,000 BTU indoor units to be used on an outdoor UOMH36AFXZI. 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 3/8" and 1/2".</p>	<p>Auto Louver Grille Kit</p> <p>RXGXSA-WV (for RIDH07/09/12) RXGXSB-WV (for RIDH18) RXGXSC-WV (for RIDH24)</p> <p>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.</p> 

ACCESSORY COMPATIBILITY

¹ If using RXRNBYU with these models you need to change the dip switch SW-1 to "ON".

² Wall mounted UIMW9, 12, and 15AHW/ AHH require accessory Interface Kit #RXTWBXF1 in order to connect these devices to them.

³ Wall mounted UIWH7, 9, and 12AVF require accessory Interface Kit #RX-XCBXZ2 in order to connect these devices.

⁴ Only multi-zone models greater than specific serial numbers are compatible with RXRVNUM.

LINE SET SIZES AND LENGTHS

	SINGLE-ZONE SYSTEMS																										
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)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	66 (20)	
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)	16 (5)	16 (5)	10 (3)	10 (3)	10 (3)	10 (3)	10 (3)

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

	MULTI / FLEX ZONE MODELS																																
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)	230 (70)	131 (40)	264 (80)
Min. Combined Pipe Length ft (m)																													49 (15)	49 (15)	66 (20)	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 RXK9FZ1818.

■ 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 V 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 V 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.





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