

# FUJITSU



For over 35 years, Fujitsu has been  
making the hottest places cool and  
the coolest places more comfortable.

**Mini-Split  
Air Conditioners  
and Heat Pumps**

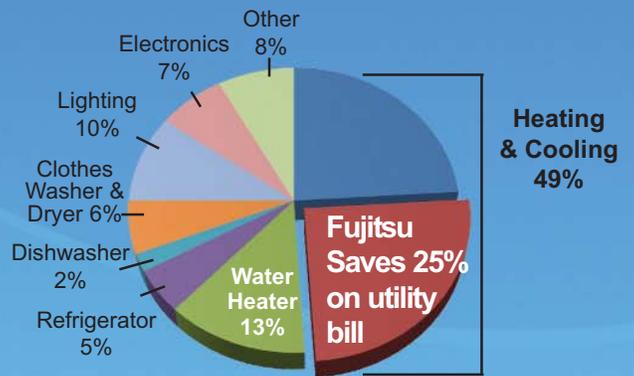


# Fujitsu: The Smart Choice in Whole Home Comfort

As much as half of the energy used in your home goes to heating and cooling. So making smart decisions about your home or business' heating and air conditioning system can have a big effect on your utility bills — and your comfort.

## Where Does My Money Go?

If your average annual utilities are \$4,200, Fujitsu can save you \$1,050 annually or \$10,500 in 10 yrs!\*



\*Savings may vary based on model selected, hours of operation and geographical location. Example given based on 26-SEER system versus 13-SEER system.

## How Does a Mini-Split Work?

### What is a Mini-Split?

Like your refrigerator, heat pumps use electricity to pump refrigerant and transfer heat from one space to another. When we transfer heat from within our home to the outdoors, we call it "air conditioning". Conversely, when we transfer heat from the outdoors to within the home, we call it a "heat-pump".

### Unit Can Be Showcased...

Wall mounted units eliminate the need for ductwork, mount high on a wall and deliver all of the cooling you pay for.

### Heat Pumps Provide Heat When it is 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 it absorbed outside to within your home. The refrigerant's physical properties do this naturally. What you pay for is the electricity to pump refrigerant via copper tubing from outdoors to indoors. Because we move the heat rather than create it (as electric baseboard or resistant heat does), we can deliver up to 4 times the heat for the energy we consume!



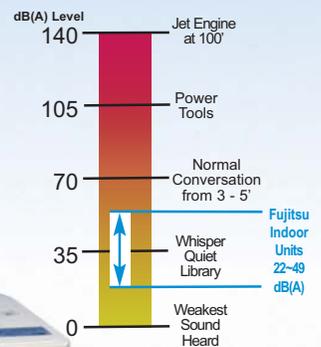
evaporator/  
fancoil (indoor)

refrigerant lines,  
electric, drain

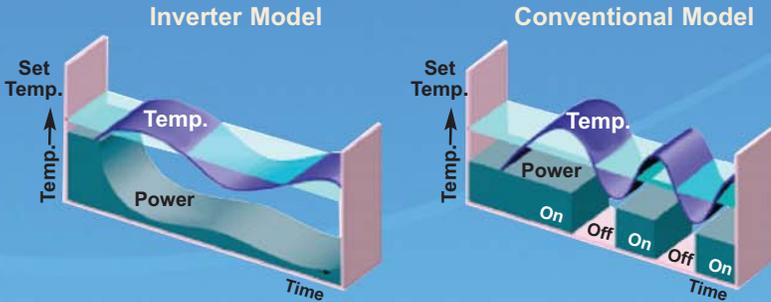
compressor/  
condenser  
(outdoor)

### Flexible and Quiet

Mini splits offer flexibility because they can be suspended from a ceiling, mounted flush behind a drop ceiling, hung on a wall or floor-standing. Ductless heat pumps allow for a peaceful inside environment by enabling the contractor to install components like compressors and motors outdoors.



# Inverter Technology



## What is an Inverter?

Inverter components allow an outdoor unit to vary its speed and output to match your comfort needs.

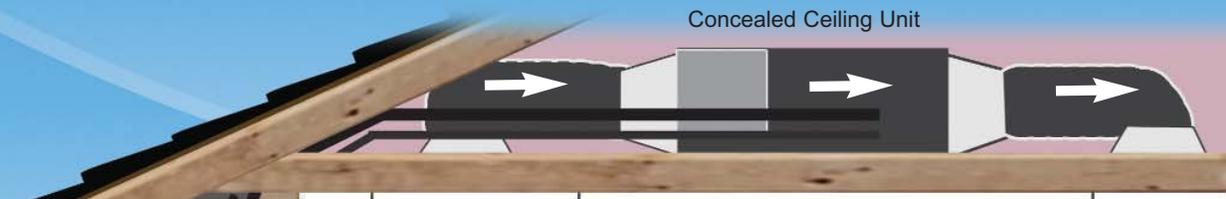
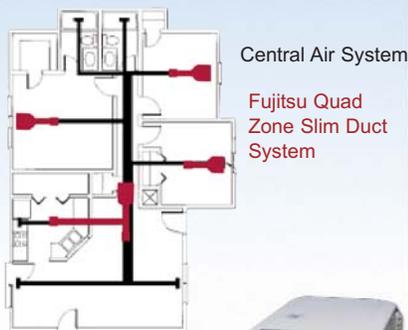
## Inverter Benefits

- More Heat at lower outdoor temperatures
- Lower RPMs = quieter operation
- Desired temperature in half the time
- Up to 30% more efficient
- Stable temperature

The built-in Inverter controls the speed of the compressor. The Inverter Power Module uses electrical components to switch and chop created DC to make simulated AC at the required frequency and voltage that drives the compressor. Compared to the common on/off controlled compressor, the inverter driven compressor runs at the proper revolution to provide the required capacity. When maximum capacity isn't needed, compressor revolution and power decreases, increasing system efficiency. "Soft start" reduces the instantaneous peak demand associated with AC equipment starts. The compressor starts at minimum speed, avoiding high inrush current associated with standard compressors.

## Ductless or Mini-Duct

Mini splits have little-to-no ducting. Central Air duct losses can easily account for more than 30% of energy consumption, especially if the ducts are not sealed tight or in an unconditioned space such as an attic or crawlspace.



**... Or Hidden**  
Concealed ceiling type units are mounted above a ceiling or in a framed enclosure below a ceiling, so only the grilles show for a clean look. They require minimal ductwork.

Air Return Grille (upward arrow)  
Air Supply Grille (downward arrow)

## Air Conditioners Provide Cooling When It's Warm.

Come spring and summer, simply reverse the process and put the same system into "cooling mode" and transfer heat from indoors to the outside. For many climates, the advanced technology that goes into these units creates a far more cost effective alternative to either gas or oil-fired units for heat, or a central ducted system for air conditioning. Fujitsu's mini-splits come in both cooling-only models or heat pumps, which provide both heating and cooling.



# Where Can Mini-Splits Be Used?

Older homes • New construction homes • Schools • Places of worship  
Hospitals and medical facilities • Restaurants • Computer rooms  
Hotels and motels • Car washes • Convenience stores



## A Variety of Styles and Sizes

### Energy Efficient Wall Mount

Houses, Apartments, Condominiums, Multi-Family Units

The high efficiency of these systems helps them pay for themselves by slashing electrical costs. Strong, quiet and efficient DC motors are used both indoors and outdoors. High performance fan blades, condensers and evaporators combined with variable speed inverter-driven compressors makes for unmatched performance. Variable speed compressors automatically adjust to fluctuating room capacity requirements.



### Flush Mount - 4 Way Air Flow

Restaurants, Conference Rooms, Computer Rooms

Mounting flush with a suspended ceiling, our ceiling cassettes can be recessed above with minimum clearance. When adequate clearance is not available our slender fit feature drops the indoor unit by 1-3/8" with a clean look providing additional clearance above the ceiling making them one of the slimmest cassettes available. Couple that with advanced design features like a built in condensate pump, knockouts available for field supplied branch ducts and automatic change-over from cooling to heating.



Fast food chains • Fire houses • Police stations • Oil rigs • Bars  
 Sunrooms and additions • Warehouses • Nursing homes  
 ATM vestibules • Small offices...

...Just about any place that requires comfort!

### Zoning Capability

Doctors' Offices, Nursing Homes, Residential Housing

Halcyon Hybrid Flex Inverter (HFI) Systems are perfect for whole-home or whole-building heating and cooling. One outdoor unit can power up to 8 indoor units. Choose from a variety of indoor unit sizes and styles (wall mounted, cassette or slim duct). 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. Fujitsu's Halcyon HFI Systems are super quiet as well as highly energy efficient.



### Fresh Air Intake

Schools, Churches, Warehouses, Large Spaces

Fujitsu has an attractive way to accommodate difficult-to-cool areas with a slim universal system that can be suspended from the ceiling, placed low on the wall or rested on the floor. For areas when floor and wall space is restricted, Fujitsu's ceiling suspended system 36RSLX (ceiling mount only) can be partially recessed. Universal and ceiling suspended systems can access "fresh air".



# Zoned Systems for Whole Home Comfort



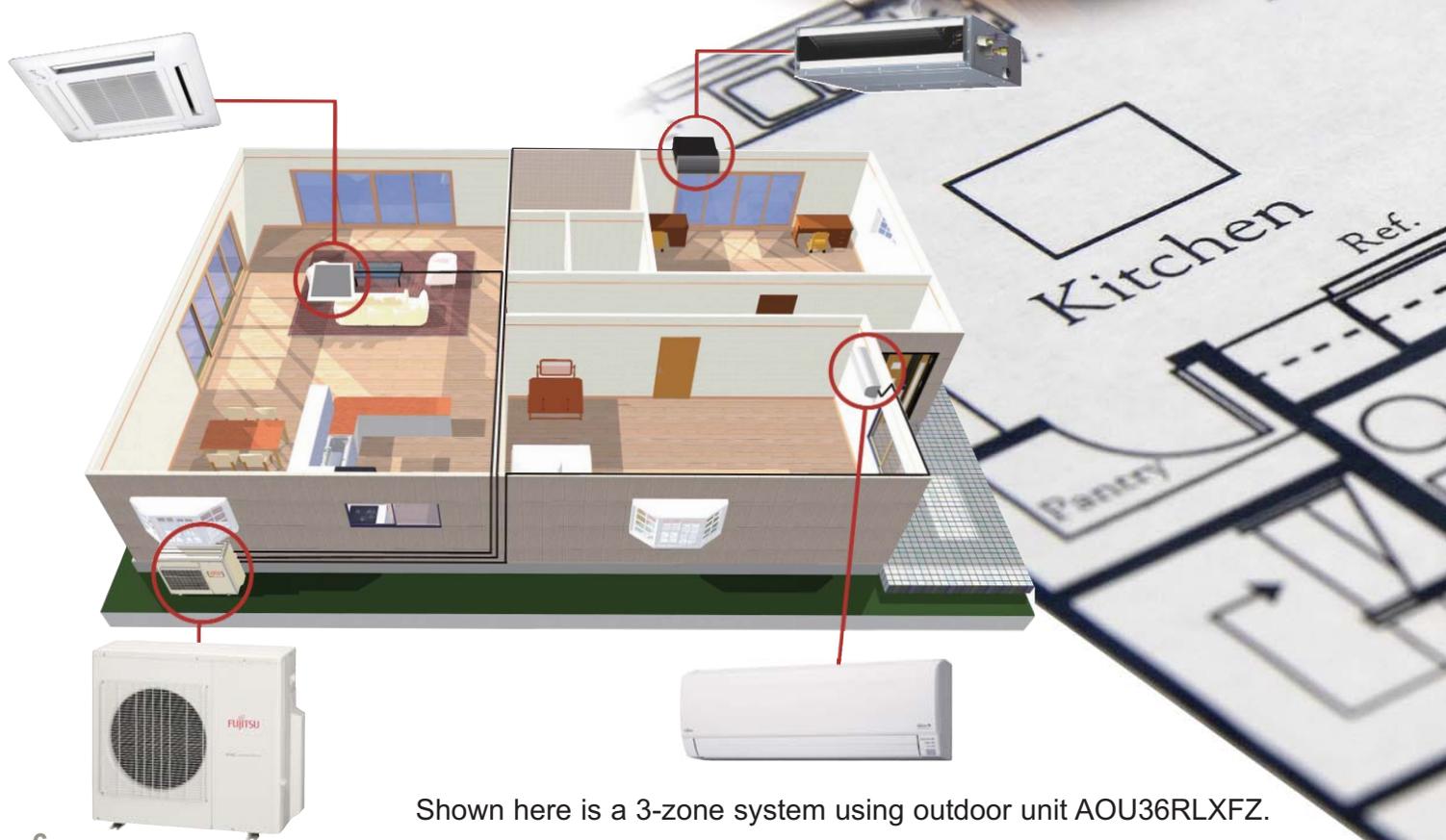
Halcyon HFI Systems are some of today's most advanced forms of heating and air conditioning. One outdoor unit can power up to 8 indoor units simultaneously. Fujitsu's HFI Systems are super quiet as well as highly energy efficient.

- Each indoor unit can be operated independently via remote control
- Choose from a variety of indoor unit styles
- Provide both heating and cooling (not simultaneously)
- High energy efficiencies
- Quiet operation

## Wall Mounted

Stylish, slim and elegant, wall mounted units are designed to complement any interior décor.

- Compact size
- Wireless remote control
- Automatic swinging louvers



Shown here is a 3-zone system using outdoor unit AOU36RLXFZ.

# Whole Home Cooling and Heating



## Slim Duct

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

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

## 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



## 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 controller (wireless optional)
- Powerful turbo fan operation
- Fits into a standard ceiling grid







## ENERGY STAR® Qualified

ENERGY STAR 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.

### SEER

Seasonal Energy Efficiency Rating. Used to express efficiency of an AC or Heat Pump. A higher rating means more efficient.

### HSPF

Heating Seasonal Performance Factor, measures the efficiency of heating portion of your heat pump.

### Apple Catechin Filter (polyphenol ingredient from apples)

Dust, mold spores and microorganisms are absorbed onto the filter by static electricity and growth is inhibited and deactivated. 3 - 12 month life expectancy, depending on environment.

### 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.

### Sleep Timer

Automatically adjusts the temperature while you sleep to make you more comfortable.

### 24 Hour Timer

Allows for one on/off cycle during a 24 hour period.

### Weekly Timer

Allows you to set on/off time twice a day and a different on/off time by day.

### Dry Mode

Helps reduce humidity levels when cooling requirements are low.

### Auto Louver: Up/Down

Redirects airflow automatically with seven position up and down motion which can be set to auto swing.

### Auto Louver: 4 Way

Redirects airflow automatically with up/down and left/right motion.

### Auto Fan Mode

System starts in high fan speed and automatically adjusts downward as room begins to reach set temperature.

### Powerful Operation

20 minutes of continuous operation at maximum airflow and maximum compressor speed. Rapid cooling and heating makes the room comfortable quickly.

### Minimum Heat Mode

Sets room temperature to 50°F, keeping temperatures above freezing and reducing power consumption.

### Economy Mode

Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.

### Energy Saver

Keeps room cool enough for comfort by using a relaxed thermostat setting reducing power consumption.

### 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.

### Quiet Mode (Indoor Unit)

An extra quiet fan speed to make sure you are not disturbed.

### Outdoor Unit Low Noise

Limits compressor and fan speed during high speed operation for a 3 dB noise reduction.+

### Power Diffuser

An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs.

### Auto Restart/Reset

Following a power failure, systems will automatically restart in the same operating mode as before, once power has been restored.

### 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.\*

### Low Ambient Cooling

Can operate in cooling mode even when outdoor ambient is 0°F, 14°F or 32°F, depending on model, without modification. Operation outside of factory specification is not recommended.

### Cold Prevention

Indoor coil will warm prior to fan operating, preventing cold air during heating mode.

### Slender Fit

Cassette body can be moved downward into the room 1-3/8" to accommodate limited ceiling space.

### Wired/Wireless Switching

This must be enabled when installing the optional wired remote controller.

### Remote Temperature Sensor

Room temperature sensor is located in optional wired remote controller only.

### 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.

### 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.

### Branch Duct Capable

Systems are capable of attaching field-supplied branch ducts providing up to 38% of the cooling up to 16 feet away.

### Fresh Air Intake

Outside air can be introduced by attaching field supplied flexible duct to fresh air knockouts.

### Third Party Device Control

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

### Warranty

Fujitsu systems come with either a 2 Year Parts / 6 Year Compressor warranty or a 5 Year Parts / 7 Year Compressor warranty.

+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.

# Accessories (See chart on Page 8 for compatibility)

## Wired Remote Controller\* UTY-RNBYU<sup>^</sup> or UTY-RNNUM<sup>^</sup>

The wired remote controller 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.



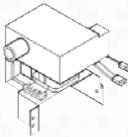
## Central Remote Control for AOU48RLXFZ UTY-DMMUM

This remote controls up to 8 individual indoor units on a Hybrid Flex Inverter (HFI) system. Set temperatures on timers to best meet individuals' needs. The sleek design includes a large backlit LCD and 4-way navigation pad. Remote connects in daisy chain to branch boxes.



## Condensate Pump UTR-DPB24T

OEM design plugs into factory harness for ease of installation. Rated for 11.8" of vertical lift. Available for Ceiling Suspended System 36RSLX.



## Fresh Air Intake Kit for Large Cassettes KHRS940-25

Kit contains current sensor with built-in relay (Split Core Fixed Threshold Current Status Sensor with Command Relay) and Switching Power Supply. Duct and Fan are field supply. A fan capable of generating 15 CFM at a static pressure of approximately .26 inches W.C. required.

## Interface Kit\*\* UTY-XCBXZ1

Required to connect ASU7RLF, 9RLF, 12RLF and ASU15RLS to Wired Remote UTY-RNNUM, Dry Contact Wire Kit UTY-XWZX, and Simple Remote Control UTY-RSNUM.



## Interface Kit\*\* UTY-TWBXF

Required to connect the ASU9RLS2, ASU12RLS2 and ASU15RLS2 to Wired Remote UTY-RNNUM, Dry Contact Wire Kit UTY-XWZXZ5, and Simple Remote Control UTY-RSNUM.

## 3-Pole Single Throw Safety Switch K3PST

Includes a wireless remote control. For use on slim duct or compact cassette Halcyon HFI indoor units. For use where code requires a disconnect at the indoor unit.



## High Humidity Insulation Kit for Compact Cassettes UTZ-KXGC

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



## Wireless Remote Controller UTY-LNHUM

For spaces where there is just no place to mount the wired remote.



## Simple Remote Control\* UTY-RSNUM

Suitable when only basic operations are required for hotels, offices and other places where there is frequent arrival and departure of occupants.



## Remote Sensor UTY-XSZX

Wall mounted temperature sensor for slim duct models.



## Receiver Unit UTY-LRHUM

Includes a wireless remote control. For use on slim duct Halcyon HFI indoor units.



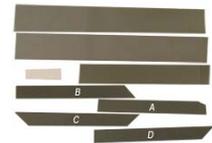
## R410A Swivel Adapter K9R410A55

In order to minimize incorrect charging of systems with R22 Fujitsu uses a different access port. Contractors will need this 55-degree swivel access fitting. Used for both Halcyon and HFI models.



## Air Outlet Shutter Plate for Compact Cassettes UTR-YDZB

In a 3-way air flow configuration an Air Outlet Shutter Plate kit is required.



## Dry Contact Wire Kit\* UTY-XWZX and UTY-XWZXZ5

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



- UTD-ECS5A Slim Duct Connector Kit
- UTY-XWZXZ3 Outdoor Unit Input/Output Connector (AOU48RLXFZ)
- UTY-XWZXZ4 Outdoor Unit Base Heater Connector (AOU48RLXFZ)

## Fresh Air Intake Kit for Compact Cassettes UTZ-VXAA

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.



## 18+18 Combo Fittings Kit (For AOU36RLXFZ) K9FZ1818

Allows two 18,000 BTU indoor units to be used on an outdoor AOU36RLXFZ. Requires special piping; limited to only 18,000 BTU models. Total BTU capacity is limited to 35,800 BTU.

<sup>^</sup> Minimum Heat, Sleep Timer functions will be lost when the wired remote controller is installed.

\* Wall mounted ASU7, 9, and 12RLF require accessory interface kit (Part UTY-XCBXZ1) in order to connect this device to them. Wall mounted ASU9, 12, and 15RLS2 require accessory interface kit (Part UTY-TWBXF) in order to connect this device to them.

\*\* Internal thermosensor function in Wired Remote UTY-RNNUM is disabled when using this interface kit.

# Wall Mounted 9 and 12,000 BTU Systems

## SYSTEMS 9R2, 12R2

	9R2		12R2	
	Heat Pump		Heat Pump	
Nominal Cooling <i>BTU/h</i>	9,700		12,300	
Nominal Heating <i>BTU/h</i>	9,600		12,800	
HSPF <i>BTU/hW</i>	8.2		8.2	
SEER <i>BTU/hW</i>	14.3		13.7	
EER <i>Clg/Htg</i>	11.8/13.9		11.5/12.9	
Clg. Operating Range °F(°C)	32~115 (0~46)		32~115 (0~46)	
Htg. Operating Range °F(°C)	17~75 (-8~24)		17~75 (-8~24)	
Moisture Removal <i>Pt./h(l/h)</i>	2.1 (1.0)		3.2 (1.5)	
Voltage/Frequency/Phase	115/60/1		115/60/1	
Recommended Fuse Size (A)	15		20	
Air Circ. <i>C.F.M. (m³/h)</i> : Hi	324 (550)		383 (650)	
	Medium		271 (460)	
	Low		241 (410)	
	Quiet		200 (340)	
Noise Level <i>dB(A)</i> : Hi	40/38		45/42	
	Medium		36/34	
	Low		31/29	
	Quiet		26/25	
Outdoor Fan Speed <i>RPM</i>	640		770	
Outdoor Noise Level <i>dB(A)</i>	43/45 (Clg/Htg)		45/46 (Clg/Htg)	
Current (A): Cooling	7.6		9.9	
	Heating		6.5	
Power Use (kw): Cooling	0.82		1.07	
	Heating		0.69	
Fan Speeds <i>Stage</i>	4 + Auto		4 + Auto	
Air Direction: <i>Horizontal</i>	Manual		Manual	
	Vertical		Automatic	
Air Filter	Washable		Washable	
Connection Method	Flare		Flare	
Combined Max. Lgth <i>Ft (m)</i>	49 (15)		49 (15)	
Max. Vertical Diff. <i>Ft (m)</i>	26 (8)		26 (8)	
Conn. Pipe Diameter <i>Inch</i>	Suc. 3/8	Dis. 1/4	Suc. 3/8	Dis. 1/4
	Net Weight <i>lbs. (kg)</i>		21 (9.5) 71 (32) 21 (9.5) 79 (36)	
Dimensions: Height <i>Inch</i>	10-13/16		21-3/8 10-13/16 21-3/8	
	<i>mm</i>	275 540	275 540	
Width <i>Inch</i>	31-1/8		31-1/8 31-1/8 31-1/8	
	<i>mm</i>	790 790	790 790	
Depth <i>Inch</i>	8-1/2		11-1/2 8-1/2 11-1/2	
	<i>mm</i>	215 290	215 290	
Refrigerant	R410A		R410A	
	Indoor ASU9R2	Outdoor AOU9R2	Indoor ASU12R2	Outdoor AOU12R2

Note: Figures are based on 115 Volts.



Up to 14.3-SEER

### Function

Stylish, slim and elegant, these popular wall mounted units are designed for single rooms. Indoor units have a clean, aesthetic design and are small but mighty and shorter in length than competing units, helping them blend into any room. 13 and 14-SEER heat pump systems have over a 30% increase in efficiency over conventional 10-SEER models and feature environmentally friendly R410A refrigerant, both heating and cooling operation, quiet mode and easy maintenance.

### Standard Features

- Apple Catechin Filter
- Ion Deodorizing Filter
- Wireless Remote Control
- Sleep Timer
- 24-Hour Timer
- Dry Mode
- Auto Louver: Up/Down
- Auto Mode
- Quiet Mode
- Auto Restart/Reset
- Auto Changeover
- Low Ambient
- Cold Prevention

### Easy Maintenance

Front panel is easily removed for cleaning.



### Optional Remote

- ▣ Weekly Timer
- ▣ Full Function Wired Remote
- ▣ Child Lock Capable

UTY-RNBYU



### 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 air conditioners and heat pumps. Do you have a warm or cool spot in your home? Our 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.

# Wall Mounted High-SEER 9, 12 and 15,000 BTU Systems

## SYSTEMS 9RLS2, 12RLS2, 15RLS2



### ESP Energy Saving Program

These Halcyon 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.



### High Performance Heating

Heating capacity at low outdoor temperatures was improved by adopting a large heat exchanger and a high capacity compressor. Rated heating capacity is maintained up to 20°F. This new model can operate down to -5°F.

### Standard Features

- Wireless Remote Control
- Sleep Timer
- Weekly Timer
- Dry Mode
- Auto Louver: Up/Down
- Auto Mode
- Quiet Mode (Indoor)
- Economy Mode
- Low Noise Mode (Outdoor)
- Energy Saving Program
- Program Timer
- Auto Restart/Reset
- Auto Changeover
- Low Ambient Heating
- Apple Catechin Filter
- Ion Deodorizing Filter
- Minimum Heat (50°F/10°C)
- Powerful Operation Mode

### Optional Accessories

- Wired Remote Controller: UTY-RNNUM
- Simple Remote Controller: UTY-RSNUM
- Communication Kit: UTY-TWBXF

	9RLS2 Heat Pump	12RLS2 Heat Pump	15RLS2 Heat Pump
Nominal Cooling <i>BTU/h</i>	9,000	12,000	14,500
Min.-Max. Cooling <i>BTU/h</i>	3,100~12,000	3,100~13,600	3,100~18,400
Nominal Heating <i>BTU/h</i>	12,000	16,000	18,000
Min.-Max. Heating <i>BTU/h</i>	3,100~22,000	3,100~22,100	3,100~23,900
HSPF <i>BTU/hW</i>	12.5	12.0	12.0
SEER <i>BTU/hW</i>	27.2	25.0	21.5
EER <i>Clg/Htg</i>	16.1/15.0	13.8/13.3	12.0/13.3
Clg. Operating Range °F(°C)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)
Htg. Operating Range °F(°C)	-5~75 (-21~24)	-5~75 (-21~24)	-5~75 (-21~24)
Moisture Removal <i>Pt./h(l/h)</i>	2.75 (1.3)	3.8 (1.8)	4.44 (2.1)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	20	20	20
Air Circ. <i>C.F.M. (m³/h)</i> : Hi	500 (850)	500 (850)	530 (900)
Medium	394 (670)	394 (670)	436 (740)
Low	324 (550)	324 (550)	336 (570)
Quiet	194 (330)	194 (330)	229 (390)
Noise Level <i>dB(A)</i> : Hi	43/43	43/43	45/45
Medium	37/38	37/38	40/40
Low	32/32	32/32	33/34
Quiet	21/21	21/21	25/27
Outdoor Fan Speed <i>RPM Clg/Htg</i>	780/780	870/780	870/780
Outdoor Noise Level <i>dB(A)</i>	48/49	49/50	51/51
Current <i>Rated (A)</i> : Cooling	2.7	4.0	5.5
Heating	3.7	5.5	6.1
Power Use <i>Rated (kw)</i> : Cooling	.56	.87	1.21
Heating	.80	1.20	1.35
Fan Speeds <i>Stage</i>	4+Auto	4+Auto	4+Auto
Air Direction: <i>Horizontal</i>	Manual	Manual	Manual
<i>Vertical</i>	Auto	Auto	Auto
Air Filter	Washable	Washable	Washable
Apple Catechin Filter	Yes	Yes	Yes
Connection Method	Flare	Flare	Flare
Combined Max. Lgth <i>Ft (m)</i>	66 (20)	66 (20)	66 (20)
Max. Vertical Diff. <i>Ft (m)</i>	49 (15)	49 (15)	49 (15)
Conn. Pipe Diameter <i>Inch</i>	Suc. 3/8/Dis. 1/4	Suc. 3/8/Dis. 1/4	Suc. 1/2/Dis. 1/4
Net Weight <i>lbs. (kg)</i>	21 (9.5)	21 (9.5)	21 (9.5)
Dimensions: Height <i>Inch</i>	11-1/8 13-1/4*	24-13/32 13-1/4*	11-1/8 13-1/4*
<i>mm</i>	282/337*	620	282/337*
Width <i>Inch</i>	34-1/4	31-3/32	34-1/4
<i>mm</i>	870	790	870
Depth <i>Inch</i>	7-1/4	11-13/32	7-1/4
<i>mm</i>	185	290	185
Refrigerant	R410A	R410A	R410A
Indoor ASU9RLS2		Indoor ASU12RLS2	
Outdoor AOU9RLS2		Outdoor AOU12RLS2	
Indoor ASU15RLS2		Outdoor AOU15RLS2	



# Wall Mounted HFI Single Zone 9, 12, 18 and 24,000 BTU

## 9RLFW, 12RLFW, 18RLXFW, 24RLXFW (COMPATIBLE ONLY WITH HFI WALL MOUNT UNIT)

	9RLFW Heat Pump	12RLFW Heat Pump	18RLXFW Heat Pump	24RLXFW Heat Pump
				
Nominal Cooling BTU/h	9,000	12,000	18,000	22,000
Min.~Max. Cooling BTU/h	1,700~10,900	3,100~13,300	7,000~23,000	9,900~27,300
Nominal Heating BTU/h	12,000	16,000	21,600	27,600
Min.~Max. Heating BTU/h	1,700~15,000	3,100~19,100	7,000~29,000	7,500~36,200
HSPF BTU/hW	11.0	11.0	10.0	10.0
SEER BTU/hW	23.0	22.0	19.2	18.0
EER Clg/COP Htg	13.8/13.47	12.5/12.5	13.3/12.0	12.5/11.6
Clg. Operating Range °F(°C)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)	0~115 (-18~46)
Htg. Operating Range °F(°C)	5~75 (-15~24)	5~75 (-15~24)	5~75 (-15~24)	0~75 (-18~24)
Moisture Removal Pt./h(l/h)	2.75 (1.3)	3.80 (1.8)	5.9 (2.8)	6.3 (3.0)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	15	20	20	30
Air Circ. C.F.M. (m <sup>3</sup> /h): Hi	353 (600)	388 (660)	541 (920)	659 (1,120) Clg 677 (1,150) Htg
Medium	306 (520)	330 (560)	435 (740)	500 (930)
Low	253 (430)	265 (450)	365 (620)	435 (740)
Quiet	200 (340)	200 (340)	306 (520) Clg 318 (540) Htg	365 (620)
Noise Level dB(A) (Clg/Htg): Hi	37/37	40/40	43/44	49/49
Medium	33/33	36/36	37/37	42/42
Low	29/29	30/31	33/33	37/37
Quiet	25/25	25/25	28/28	33/33
Outdoor Fan Speed RPM Clg/Htg	810/780	870/780	620/620	800/850
Outdoor Noise Level dB(A) Clg/Htg	48/48	49/49	47/50	54/55
Current Rated/Max (A): Cooling	3.2/6.0	4.4/6.5	6.2/13.5	7.9/15.0
Heating	4.2/7.5	5.9/9.0	8.0/14.5	10.5/15.5
Power Use Rated (kw): Cooling	0.65/1.27	0.96/1.40	1.35/3.01	1.76/3.42
Heating	0.89/1.60	1.28/1.99	1.80/3.23	2.38/3.53
Fan Speeds Stage	4+Auto	4+Auto	4+Auto	4+Auto
Air Direction: Horizontal	Manual	Manual	Automatic	Automatic
Vertical	Automatic	Automatic	Automatic	Automatic
Air Filter	Washable	Washable	Washable	Washable
Apple Catechin Filter	Yes	Yes	Yes	Yes
Connection Method	Flare	Flare	Flare	Flare
Combined Max. Lgth Ft (m)	66 (chargeless: 49)	66 (chargeless: 49)	164 (50)	164 (50)
Max. Vertical Diff. Ft (m)	49 (15)	49 (15)	98 (30)	98 (30)
Conn. Pipe Diameter Inch	Suc. 3/8 Dis. 1/4	Suc. 3/8 Dis. 1/4	Suc. 5/8* Dis. 3/8*	Suc. 5/8* Dis. 3/8*
Net Weight lbs. (kg)	18 (8) 71 (32)	18 (8) 71 (32)	31 (14) 135 (61)	31 (14) 135 (61)
Dimensions: Height Inch	11-1/16 21-1/4	11-1/16 21-1/4	12-5/8 32-3/4	12-5/8 32-3/4
mm	280 540	280 540	320 830	320 830
Width Inch	31-1/16 26	31-1/16 31	39-1/4 35-3/8	39-1/4 35-3/8
mm	790 660	790 790	998 900	998 900
Depth Inch	8 11-7/16	8 11-7/16	9 13	9 13
mm	203 290	203 290	228 330	228 330
Refrigerant	R410A	R410A	R410A	R410A
	Indoor ASU9RLF Outdoor AO9RLFW	Indoor ASU12RLF Outdoor AO12RLFW	Indoor ASU18RLF Outdoor AO18RLXFW	Indoor ASU24RLF Outdoor AO24RLXFW

Note: Figures are based on 230 Volts.



9RLFW, 12RLFW

Up to 23-SEER



18RLXFW, 24RLXFW

### Applications

These models are single zone 9, 12, 18 and 24,000 BTU ductless heat pumps, meaning they provide cooling in the summer and heat in the winter for year-round comfort. These systems provide quiet, efficient comfort to your residential or business space.

### Standard Features

- Apple Catechin Filter
- Ion Deodorizing Filter
- Wireless Remote Control
- Sleep Timer
- 24-Hour Timer
- Dry Mode
- Auto Louver: Up/Down+
- Auto Louver: 4-way^
- Auto Mode
- Minimum Heat Mode
- Economy Mode
- Quiet Mode
- Power Diffuser^
- Auto Restart/Reset
- Auto Changeover
- Low Ambient
- Cold Prevention

+ Feature of 9RLFW and 12RLFW only.  
^ Feature of 18RLXFW and 24RLXFW only.

### Optional Wired Remote

- Weekly Timer
- Full Function Wired Remote
- Child Lock Capable

UTY-RNNUM\*



\*Requires interface kit UTY-XCBXZ1 for 9RLFW and 12RLFW.

### \*Adapter Fittings

Supplied in outdoor unit to be installed on the indoor unit.



# Wall Mounted 30,000 BTU Systems

## SYSTEMS 30RLX



### Function

This wall mounted heat pump provides both heating and cooling for year-round comfort. Ultra compact yet efficient, System 30RLX provides maximum comfort in 30% less space while saving you money. Additionally, System 30RLX provides low ambient operation rated down to 0°F right out of the box without modification.

### Standard Features

- Apple Catechin Filter
- Ion Deodorizing Filter
- Wireless Remote Control
- Sleep Timer
- 24-Hour Timer
- Dry Mode
- Auto Louver: 4-way
- Auto Mode
- Minimum Heat Mode
- Economy Mode
- Quiet Mode
- Power Diffuser
- Auto Restart/Reset
- Auto Changeover
- Low Ambient
- Cold Prevention

### Optional Remote

- ▣ Weekly Timer
- ▣ Full Function Wired Remote
- ▣ Child Lock Capable

UTY-RNBYU



### Easy Maintenance

Front panel is easily removed for cleaning.



### Applications

Fujitsu ductless air conditioners can be used to solve various application-specific problems. Businesses and institutions such as schools, churches, nursing homes and hospitals, commercial office buildings, strip malls, motels and restaurants, apartments and condos, computer and telephone switching rooms, and even residences commonly use these systems. With more efficient zone control, "ductless mini-splits" are perfect for renovations, restorations, conversions, and add-ons.

30RLX Heat Pump	
Nominal Cooling BTU/h	30,000
Min.-Max. Cooling BTU/h	9,900~32,400
Nominal Heating BTU/h	32,000
Min.-Max. Heating BTU/h	8,000~37,500
HSPF BTU/hW	9.5
SEER BTU/hW	17.5
EER Clg/Htg	10.0
Clg. Operating Range °F(°C)	0~115 (-18~46)
Htg. Operating Range °F(°C)	0~75 (-18~24)
Moisture Removal Pt./h(h)	9.5 (4.5)
Voltage/Frequency/Phase	208-230/60/1
Recommended Fuse Size (A)	30
Air Circ. C.F.M. (m <sup>3</sup> /h): Hi	659 (1,120) Clg 677 (1,150) Htg
Medium	530 (900)
Low	435 (740)
Quiet	365 (620)
Noise Level dB(A): Hi	49/49 (Clg/Htg)
Medium	42/42 (Clg/Htg)
Low	37/37 (Clg/Htg)
Quiet	33/33 (Clg/Htg)
Outdoor Fan Speed RPM Clg/Htg	850/850
Outdoor Noise Level dB(A)	54/55 (Clg/Htg)
Current Rated/Max (A): Cooling	13.2/17.0
Heating	13.1/18.5
Power Use Rated/Max (kw): Cooling	3.0/3.87
Heating	2.99/4.22
Fan Speeds Stage	4 + Auto
Air Direction: Horizontal	Automatic
Vertical	Automatic
Air Filter	Washable
ENERGY STAR® Qualified	No
Connection Method	Flare
Combined Max. Lgth Ft (m)	164 (50)
Max. Vertical Diff. Ft (m)	98 (30)
Conn. Pipe Diameter Inch	Suc. 5/8    Dis. 3/8
Net Weight lbs. (kg)	31 (14)    135 (61)
Dimensions: Height Inch	12-5/8    32-3/4
mm	320    830
Width Inch	39-1/4    35-3/8
mm	998    900
Depth Inch	9    13
mm	228    330
Refrigerant	R410A
Indoor ASU30RLX	Outdoor AOU30RLX

Note: Figures are based on 230 Volts.



# Wall Mounted 18, 24, 30 and 36,000 BTU Systems

## SYSTEMS 18CL, 24CL1, 30CLX1, 36CLX1

	18CL Cooling Only	24CL1 Cooling Only	30CLX1 Cooling Only	36CLX1 Cooling Only
Nominal Cooling BTU/h	18,000	24,000	30,800	33,000
Min.-Max. Cooling BTU/h	5,500~19,000	3,100~25,000	9,900~32,400	9,900~34,100
SEER BTU/hW	19.0	17.5	16.5	15.5
EER Clg	10.4	10.0	9.5	8.5
Clg. Operating Range °F(°C)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)	14~115 (-10~46)
Moisture Removal Pt./h(l/h)	5.9 (2.8)	6.3 (3.0)	9.7 (4.6)	10.1 (4.8)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	20	20	30	30
Air Circ. C.F.M. (m <sup>3</sup> /h): Hi	412 (700)	659 (1,120)	660 (1,100)	695 (1,180)
Medium	342 (581)	530 (900)	530 (900)	530 (900)
Low	271 (460)	436 (740)	435 (740)	435 (740)
Quiet	218 (370)	365 (620)	365 (620)	365 (620)
Noise Level dB(A): Hi	44	48	49	50
Medium	38	42	42	42
Low	32	37	37	37
Quiet	25	33	33	33
Outdoor Fan Speed RPM Clg	860	1,100	2,119	2,119
Outdoor Noise Level dB(A)	50	56	54	54
Current Rated/Max (A): Cooling	7.7/9.0	10.5/11.5	14.2/17.0	17.0/18.0
Power Use Rated/Max (kw): Cooling	1.73/2.0	2.4/2.5	3.24/3.87	3.88/4.10
Fan Speeds Stage	4 + Auto	4 + Auto	4 + Auto	4 + Auto
Air Direction: Horizontal	Manual	Automatic	Automatic	Automatic
Vertical	Automatic	Automatic	Automatic	Automatic
Air Filter	Washable	Washable	Washable	Washable
Connection Method	Flare	Flare	Flare	Flare
Combined Max. Lgth Ft (m)	66 (20)	98 (30)	164 (50)	164 (50)
Max. Vertical Diff. Ft (m)	49 (15)	66 (20)	98 (30)	98 (30)
Conn. Pipe Diameter Inch	Suc. 1/2 Dis. 1/4	Suc. 5/8 Dis. 1/4	Suc. 5/8 Dis. 3/8	Suc. 5/8 Dis. 3/8
Net Weight lbs. (kg)	20 (9)	88 (40)	31 (14)	88 (40)
Dimensions: Height Inch	10-13/16	22-3/4	12-5/8	24-7/16
mm	275	578	320	620
Width Inch	31-1/8	31-1/8	39-1/4	31-1/8
mm	790	790	998	790
Depth Inch	8-7/16	11-13/16	9	11-3/4
mm	215	300	228	298
Refrigerant	R410A	R410A	R410A	R410A
	Indoor ASU18CL Outdoor AOU18CL	Indoor ASU24CL1 Outdoor AOU24CL1	Indoor ASU30CLX1 Outdoor AOU30CLX1	Indoor ASU36CLX1 Outdoor AOU36CLX1

Note: Figures are based on 230 Volts.



+ Feature of 18CL only.  
^ Feature of 24CL1, 30CLX1, 36CLX1 only.



Up to 19-SEER

### Function

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

### Standard Features

- Apple Catechin Filter
- Ion Deodorizing Filter
- Wireless Remote Control
- Sleep Timer
- 24-Hour Timer
- Dry Mode
- Auto Louver: Up/Down+
- Auto Louver: 4 Way^
- Auto Mode
- Quiet Mode
- Power Diffuser^
- Auto Restart/Reset
- Low Ambient



### Optional Remote

- ❑ Weekly Timer
- ❑ Full Function Wired Remote
- ❑ Child Lock Capable

UTY-RNBYU



### Applications

Fujitsu brand ductless air conditioners can be used to solve various application-specific problems. The flexibility of the variable speed compressor helps system adapt to shifts in heat load by occupants or fluctuating heat generated by computers. With more efficient zone control, "ductless mini-splits" are perfect for renovations, restorations, conversions, and add-ons.

# Multi-Zone Outdoor Units 18, 24 and 36,000 BTUs

AOU18RLXFZ, AOU24RLXFZ, AOU36RLXFZ



## Part of the Halcyon Hybrid Flex Inverter (HFI) Line

As part of the Halcyon HFI line of equipment, select indoor units are compatible with other HFI outdoor units, meaning mix and match capabilities with fewer components.

### Connectable Capacity

This function allows you to connect indoor units that can exceed outdoor unit capacity (See sizing guide on page 19 for details). However, if you connect indoor units that exceed 100% of the outdoor unit's capacity there are limitations.

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.

### Features

- Connect 2 to 4 indoor units, depending on model
- Operate as few as one indoor unit or all indoor units.
- Connect 14,000 to 39,000 BTU
- No branch boxes or separation tubes required
- Choose from 3 indoor unit styles - wall mount, slim duct or cassette
- Two combinations are ENERGY STAR Qualified®
- Create over 300 combinations based on indoor type and BTU

### For Example

The load on a 3-bedroom home with a living room and kitchen downstairs and 3 bedrooms upstairs is 39,000 BTUs (21,000 BTU downstairs and 18,000 BTU upstairs). However the family isn't upstairs and downstairs at the same time, therefore not all units will be running simultaneously allowing 100% heating or cooling to occupied spaces. This can be achieved by our AOU36RLXFZ outdoor unit.

# Flex Zone Outdoor Unit 48,000 BTUs

AOU48RLXFZ



Halcyon HFI Flex Zone system's zoning capability allows you to set each indoor unit to a different temperature - that means you can set up to 8 different temperatures as needed! This system provides individual temperature control throughout your home or business so each room, zone or floor will be the temperature you set! An optional Central Remote Control is available which can control up to all 8 indoor units from one keypad. Additionally, you can set timers - 24-hour timer and sleep timer - for your convenience.

### 130% Connectable Capacity

The HFI system is rated at 48,000 BTUs but you can connect up to 130%, or 62,000 BTUs of rated indoor unit capacity to the AOU48RLXFZ. Connectable capacity allows you to connect indoor units that can exceed outdoor unit capacity (See sizing guide on page 19 for details). However, if you connect indoor units that exceed 100% of the outdoor unit's capacity there are limitations.

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.

### Features

- Connect 2 to 8 indoor units
- Operate as few as one indoor unit or all indoor units.
- 80 to 130% connectable capacity
- Connect 39,000 to 62,000 BTU
- Branch boxes and separation tubes required
- Choose from 3 indoor unit styles - wall mount, slim duct or cassette
- Create over 3,266 combinations based on indoor type and BTU
- Up to 17 SEER and 9.8 HSPF

### For Example

The load on a small 2-story office building with a business downstairs and worker apartments upstairs is 62,000 BTUs (38,000 BTUs downstairs and 24,000 BTUs upstairs) but the workers aren't upstairs and downstairs at the same time, therefore not all units will be running simultaneously allowing 100% heating or cooling to occupied spaces.





# Multi-Zone Outdoor Units 18, 24 and 36,000 BTUs

AOU18RLXFZ, AOU24RLXFZ, AOU36RLXFZ

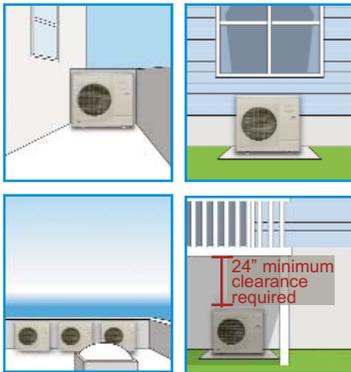


AOU18, 24RLXFZ

AOU36RLXFZ

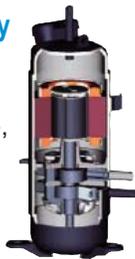
## Compact Size

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



## DC Twin Rotary Compressor

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



Connectable Indoor Unit Number  
 Connectable Unit Capacity Class BTU/h  
 Rated Capacity Cooling/Heating BTU/h  
 Clg. Operating Range °F(°C)  
 Htg. Operating Range °F(°C)  
 Input Power: Clg/Htg Rated kW\*  
 Voltage/Frequency/Phase  
 Current: Total Max. (A)  
 Minimum Circuit Ampacity (A)  
 Recommended Fuse Size (A)  
 Outdoor Fan Airflow CFM (Clg/Htg)  
 Fan: Type x Quantity  
 Sound Pressure Level Cooling dB(A)  
 Sound Pressure Level Heating dB(A)  
 Pre-Charge Length Total Ft (m)  
 Max. Length Total Ft (m)  
 Max. Length Each Ft (m)  
 Min. Length Total Ft (m)  
 Min. Length Each Ft (m)  
 Max. Pipe Height Difference Between Outdoor Unit & Farthest Indoor Ft (m)  
 Max. Pipe Height Difference Between Indoor Units Ft (m)  
 Connection Method

Conn. Pipe Diameter Inch

Net Weight lbs. (kg)

Dimensions: Height Inch

Width Inch

Depth Inch

Refrigerant

AOU 18RLXFZ	AOU 24RLXFZ	AOU 36RLXFZ	AOU 36RLXFZ
Heat Pump ASU9+ASU9	Heat Pump ASU9+ASU7+ASU7	Heat Pump ASU9 x 4	18+18 Combo <sup>1</sup> ASU18+ASU18
2	2 to 3	3 to 4	2 <sup>1</sup>
14 to 21,000 <sup>2</sup>	14 to 27,000 <sup>2</sup>	27 to 39,000 <sup>2</sup>	36,000 <sup>1</sup>
18,000/22,000	22,000/24,000	35,200/36,400	31,600/35,800
14 to 115 (-10 to 46)	14 to 115 (-10 to 46)	32 to 115 (0 to 46)	50 to 115 (10 to 46)
5 to 75 (-15 to 24)	5 to 75 (-15 to 24)	14 to 75 (-10 to 24)	14 to 75 (-10 to 24)
1.44/1.87	1.76/1.73	4.00/3.00	3.98/3.66
208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
10.0	13.7	20.1	20.1
13	17	25	25
25	25	30	30
1,795/1,619	1,942/1,942	2,119/2,237	2,119/2,237
Propeller x 1	Propeller x 1	Propeller x 1	Propeller x 1
49	51	53	53
49	52	55	55
98 (30)	98 (30)	164 (50)	66 (20)
164 (50)	164 (50)	230 (70)	131 (40)
82 (25)	82 (25)	82 (25)	82 (25)
49 (15)	49 (15)	66 (20)	49 (15)
16 (5)	16 (5)	16 (5)	25 (7.5)
49 (15)	49 (15)	49 (15)	49 (15)
33 (10)	33 (10)	33 (10)	33 (10)
Flare	Flare	Flare	Flare
Liq. 1/4 x 2 Suc. 3/8 x 2	Liq. 1/4 x 3 Suc. 1/2 x 1, 3/8 x 2	Liq. 1/4 x 4 Suc. 1/2 x 1, 3/8 x 3	Liq. 3/8 x 2 Suc. 1/2 x 2 <sup>1</sup>
119 (54)	124 (56)	149 (68)	149 (68)
27-9/16 700	27-9/16 700	32-11/16 830	32-11/16 830
35-7/16 900	35-7/16 900	35-7/16 900	35-7/16 900
13 330	13 330	13 330	13 330
R410A	R410A	R410A	R410A

<sup>1</sup>18+18 is the only 2 indoor unit (ASU, ARU or AUU) combination and requires K9FZ1818.

<sup>2</sup>See table on page 19 for allowed combinations within this connectable capacity range.

## Nominal Capacities, SEER and HSPF Ratings

Data below is based on AHRI 210/240 non-ducted wall mounted models.

Model	Indoor Unit		Cooling Capacity Btu/h	EER	SEER	Heating Capacity Btu/h		COP	HSPF
	Type	Combination				95°F	47°F		
AOU18RLXFZ	Non-Ducted	ASU9+ASU9	18,000	12.50	18.0	22,000	13,900	3.44	9.3
	Ducted	-	18,000	12.10	16.0	22,000	13,900	3.52	9.0
	Mixed	-	18,000	12.30	17.0	22,000	13,900	3.48	9.2
	Specific	ASU7+ASU12 and ASU9+ASU12	18,000	12.50	18.0	22,000	13,900	3.67	9.0
AOU24RLXFZ	Non-Ducted	ASU9+ASU7+ASU7	22,000	12.50	18.0	24,000	14,100	4.04	9.5
	Ducted	-	22,000	10.60	15.5	24,000	14,100	3.42	9.0
	Mixed	-	22,000	11.55	16.8	24,000	14,100	3.74	9.3
AOU36RLXFZ	Non-Ducted	-	35,200	8.80	16.0	36,400	22,000	3.56	9.4
	Ducted	-	33,800	8.10	14.5	36,400	21,200	3.08	8.7
	Mixed	-	34,400	8.45	15.3	36,400	21,600	3.32	9.1

Yellow rows represent models that are ENERGY STAR® Qualified.



# Allowable Combinations



41 Combinations Based on BTU (Over 300 Combo's Based on Indoor Type and BTU)

AOU18RLXFZ (Dual Zone)				
Zone 1	Zone 2	Total Connectable Capacity Class	Total Cooling BTU <sup>^</sup>	Connectable Capacity Class
7,000	7,000	14,000	18,000	77.8%
7,000	9,000	16,000	18,000	88.9%
9,000	9,000	18,000	18,000	100.0%
7,000	12,000	19,000	18,000	105.6%
9,000	12,000	21,000	18,000	116.7%

**Remember:** These systems *do not* require branch boxes or separation tube assemblies.

Connectable capacities shown are based on unit capacity class and not actual capacity. Contractors will need to refer to Design and Technical Manual for proper sizing, design and application.

AOU24RLXFZ (Dual or Tri Zone)					
Zone 1	Zone 2	Zone 3	Total Connectable Capacity Class	Total Cooling BTU <sup>^</sup>	Connectable Capacity Class
7,000	7,000		14,000	22,000	63.6%
7,000	9,000		16,000	22,000	72.7%
9,000	9,000		18,000	22,000	81.8%
7,000	12,000		19,000	22,000	86.4%
9,000	12,000		21,000	22,000	95.5%
7,000	7,000	7,000	21,000	22,000	95.5%
7,000	7,000	9,000	23,000	22,000	104.5%
12,000	12,000		24,000	22,000	109.1%
7,000	18,000		25,000	22,000	113.6%
7,000	9,000	9,000	25,000	22,000	113.6%
7,000	7,000	12,000	26,000	22,000	118.2%
9,000	18,000		27,000	22,000	122.7%
9,000	9,000	9,000	27,000	22,000	122.7%

AOU36RLXFZ (Dual, Tri or Quad Zone)						
Zone 1	Zone 2	Zone 3	Zone 4	Total Connectable Capacity Class	Total Cooling BTU <sup>^</sup>	Connectable Capacity Class
9,000	9,000	9,000		27,600	35,200*	77.1%
7,000	9,000	12,000		28,000	35,200*	80.0%
7,000	7,000	7,000	7,000	28,000	35,200*	80.0%
9,000	9,000	12,000		30,000	35,200*	85.7%
7,000	7,000	7,000	9,000	30,000	35,200*	85.7%
7,000	12,000	12,000		31,000	35,200*	88.6%
7,000	7,000	18,000		32,000	35,200*	91.4%
7,000	7,000	9,000	9,000	32,000	35,200*	91.4%
9,000	12,000	12,000		33,000	35,200*	94.3%
7,000	7,000	7,000	12,000	33,000	35,200*	94.3%
7,000	9,000	18,000		34,000	35,200*	97.1%
7,000	9,000	9,000	9,000	34,000	35,200*	97.1%
7,000	7,000	9,000	12,000	35,000	35,200*	100.0%
18,000	18,000 <sup>+</sup>			36,000	31,600 <sup>+</sup>	102.9%
9,000	9,000	18,000		36,000	35,200*	102.9%
12,000	12,000	12,000		36,000	35,200*	102.9%
9,000	9,000	9,000	9,000	36,000	35,200*	102.9%
7,000	12,000	18,000		37,000	35,200*	105.7%
7,000	9,000	9,000	12,000	37,000	35,200*	105.7%
7,000	7,000	24,000		38,000	35,200*	108.6%
7,000	7,000	12,000	12,000	38,000	35,200*	108.6%
7,000	7,000	7,000	18,000 <sup>**</sup>	39,000	35,200*	111.4%
9,000	12,000	18,000		39,000	35,200*	111.4%



AOU18RLXFZ  
AOU24RLXFZ  
AOU36RLXFZ



ASU7RLF, ASU9RLF,  
ASU12RLF, ASU18RLF,  
ASU24RLF



ARU9RLF, ARU12RLF,  
ARU18RLF, ARU24RLF



AUU9RLF, AUU12RLF,  
AUU18RLF

<sup>^</sup> Data is based on AHRI 210/240 non-ducted wall mounted models.

\* Capacity based on non-ducted models. For ducted or mixed refer to capacity table on Page 18.

\*\*ARU18RLF and AUU18RLF only. Wall mounted ASU18RLF cannot be connected in this combination. See Design & Technical Manual for capacities.

+ If AOU36RLXFZ is paired with two 18,000 BTU indoor units, you have to purchase optional kit Part #K9FZ1818.

Capacity based on non-ducted models. For ducted or mixed refer to capacity table in Design & Technical Manual.



# Outdoor Unit 48,000 BTUs

AOU48RLXFZ



- Connect 2 to 8 indoor units
- 80 to 130% connectable capacity
- Connect 39,000 to 62,000 BTU

### 2 Indoor Units

18k BTU/h + 24 k BTU/h = 42k BTU/h ··OK  
 12k BTU/h + 24 k BTU/h = 36k BTU/h ··Not Allowed (below 80%)

### 8 Indoor Units

7k BTU/h × 8 units = 56k BTU ··OK  
 9k BTU/h × 8 units = 72k BTU ··Not Allowed (over 130%)

## AOU48RLXFZ

Heat Pump

Connectable Indoor Unit <i>Number</i>	2 to 8
Connectable Indoor Unit <i>Capacity</i>	80 to 130% Nominal (39,000 - 62,000 BTU)
Connectable Branch Box <i>Number</i>	1 to 3
Nominal Cooling <i>BTU/h</i>	48,000
Max Cooling <i>BTU/h</i>	51,100
Nominal Heating <i>BTU/h</i>	54,000
Low Temp. Heating 17°F <i>BTU/h</i>	40,000
Max Heating <i>BTU/h</i>	57,000
Clg. Operating Range °F(°C)	23-115 (-5-46)
Htg. Operating Range °F(°C)	5-75 (-15-24)
Input Power: Cooling Rated kW*	5.52 / 5.19 / 5.35
Input Power: Heating Rated kW*	5.02 / 4.89 / 4.96
Voltage/Frequency/Phase	208-230/60/1
Current: Clg Outdoor Max. (A)	24.5 / 23.0 / 23.7
Current: Htg Outdoor Max. (A)	22.3 / 21.7 / 22.0
Recommended Fuse Size (A)	40
Outdoor Fan Speed <i>RPM (Clg/Htg)</i>	890/910
Fan: Type x Quantity	Propeller x 1
Fan Motor Output W	111
Sound Pressure Level Cooling <i>dB(A)</i>	56
Sound Pressure Level Heating <i>dB(A)</i>	58
Max. Pipe Length Total <i>Ft (m)</i>	377 (115)
Max. Pipe Length Between Box & Farthest Indoor Unit <i>Ft (m)</i>	49 (15)
Max. Pipe Height Difference Between Outdoor Unit & Branch Box <i>Ft (m)</i>	98 (30)
Max. Pipe Height Difference Between Indoor Units <i>Ft (m)</i>	98 (30)
Max. Pipe Height Difference Between Outdoor Unit & Farthest Indoor <i>Ft (m)</i>	98 (30)
Connection Method	Flare
Conn. Pipe Diameter <i>Inch</i>	3/8 (Liq.) 5/8 (Suc.)
Net Weight <i>lbs. (kg)</i>	216 (98)
Dimensions: Height <i>Inch</i>	36
<i>mm</i>	914
Width <i>Inch</i>	38-1/4
<i>mm</i>	970
Depth <i>Inch</i>	14-5/8
<i>mm</i>	370
Refrigerant	R410A

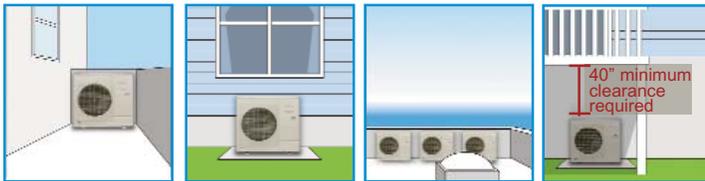
\*Ducted / Non-Ducted / Mixed

	SEER	HSPF	EER**
Ducted	14.7	9.3	8.7
Non-Ducted	17.0	9.8	9.25
Mixed	15.8	9.5	8.97

\*\*Cooling

## Compact Size

The compact size of outdoor unit AOU48RLXFZ allows for many installation opportunities.



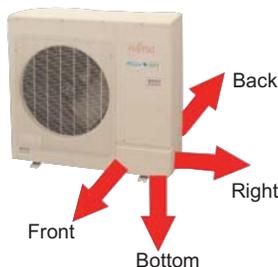
## Self Diagnostic Feature

This printed circuit board provides three modes of diagnostics - setting, monitoring and function mode, as well as error codes. It also provides a pre-commissioning check function. Setting mode allows optional functions to be selected. Monitoring mode provides temperature for each thermistor, compressor operation and other functions. Function mode provides cooling test run, heating test run and pump down operation.



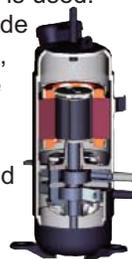
## Piping Flexibility

Contractors can choose the best direction for piping from the outdoor unit.



## DC Twin Rotary Compressor

A high performance, low noise, large capacity DC twin rotary compressor is used. Includes Quiet Mode for night operation, which requires the optional Central Remote Control and a field supplied timer.



# Allowable Combinations for AOU48RLXFZ



156 Combinations Based on BTU (3,266 Combo's Based on Indoor Type and BTU)



ASU7RLF  
ASU9RLF  
ASU12RLF  
ASU18RLF  
ASU24RLF



ARU9RLF  
ARU12RLF  
ARU18RLF  
ARU24RLF



AAU9RLF\*  
AAU12RLF\*  
AAU18RLF\*



AOU48RLXFZ

BTU Capacity 7,000 9,000 12,000 18,000 24,000

Indoor Units	7,000	9,000	12,000	18,000	24,000	Total BTU
2 INDOOR UNITS	18 24					42
	24 24					48
3 INDOOR UNITS	7 9 24					40
	7 12 24					43
	7 18 18					43
	7 18 24					49
	7 24 24					55
	9 9 24					42
	9 12 18					39
	9 12 24					45
	9 18 18					45
	9 18 24					51
4 INDOOR UNITS	12 12 18					42
	12 12 24					48
	12 18 18					48
	12 18 24					54
	12 24 24					60
	18 18 18					54
	18 18 24					60
	7 7 7 18					39
	7 7 7 24					45
	7 7 9 18					41
5 INDOOR UNITS	7 7 9 24					47
	7 7 12 18					44
	7 7 12 24					50
	7 7 18 18					50
	7 7 18 24					56
	7 7 24 24					62
	7 9 9 18					43
	7 9 9 24					49
	7 9 12 12					40
	6 INDOOR UNITS	7 9 12 18				
7 9 12 24						52
7 9 18 18						52
7 9 18 24						58
7 12 12 12						43
7 12 12 18						49
7 12 12 24						55
7 12 18 18						51
7 12 18 24						57
7 12 24 24						63
7 INDOOR UNITS	7 7 7 7 18					42
	7 7 7 7 24					48
	7 7 7 9 18					44
	7 7 7 9 24					50
	7 7 7 12 12					44
	7 7 7 12 18					50
	7 7 7 12 24					56
	7 7 7 18 18					54
	7 7 7 18 24					60
	7 7 7 24 24					66
8 INDOOR UNITS	7 7 9 9 18					41
	7 7 9 9 24					47
	7 7 9 12 12					44
	7 7 9 12 18					50
	7 7 9 12 24					56
	7 7 9 18 18					54
	7 7 9 18 24					60
	7 7 9 24 24					66
	7 7 12 12 12					43
	7 7 12 12 18					49
9 INDOOR UNITS	7 7 12 12 24					55
	7 7 12 18 18					53
	7 7 12 18 24					59
	7 7 12 24 24					65
	7 7 18 18 18					54
	7 7 18 18 24					60
	7 7 18 24 24					66
	7 7 24 24 24					72
	7 9 9 9 18					45
	7 9 9 9 24					51
10 INDOOR UNITS	7 9 12 12 12					45
	7 9 12 12 18					51
	7 9 12 12 24					57
	7 9 12 18 18					55
	7 9 12 18 24					61
	7 9 12 24 24					67
	7 9 18 18 18					57
	7 9 18 18 24					63
	7 9 18 24 24					69
	7 9 24 24 24					75
11 INDOOR UNITS	7 9 24 24 24					81
	7 12 12 12 12					48
	7 12 12 12 18					54
	7 12 12 12 24					60
	7 12 12 18 18					58
	7 12 12 18 24					64
	7 12 12 24 24					70
	7 12 18 18 18					60
	7 12 18 18 24					66
	7 12 18 24 24					72
12 INDOOR UNITS	7 12 24 24 24					78
	7 18 18 18 18					66
	7 18 18 18 24					72
	7 18 18 24 24					78
	7 18 24 24 24					84
	7 24 24 24 24					90
	7 24 24 24 24					90
	7 24 24 24 24					90
	7 24 24 24 24					90
	7 24 24 24 24					90

Allowed "Connectable = Capacity" combinations between 100 and 130%

\* Compact Cassette Grille UTG-CCGF sold separately. Must order one with each compact cassette.

# Wall Mounted 7, 9, 12, 18 and 24,000 BTUs

ASU7RLF, ASU9RLF, ASU12RLF, ASU18RLF, ASU24RLF



ASU7, 9, 12RLF



ASU18, 24RLF

	ASU7RLF	ASU9RLF	ASU12RLF	ASU18RLF	ASU24RLF	
	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump	
Nominal Cooling BTU/h*	7,000	9,000	12,000	18,000	24,000	
Nominal Heating BTU/h*	8,100	10,200	13,500	20,000	27,000	
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	
Air Circ. C.F.M. (m <sup>3</sup> /h): Hi	Clg 330 (560)	Clg 353 (600)	Clg 388 (660)	Clg 542 (920)	Clg 659 (1,120)	
	Htg 330 (560)	Htg 353 (600)	Htg 388 (660)	Htg 542 (920)	Htg 647 (1,100)	
	Clg 294 (500)	Clg 306 (520)	Clg 330 (560)	Clg 436 (740)	Clg 530 (900)	
Medium	Htg 294 (500)	Htg 306 (520)	Htg 330 (560)	Htg 436 (740)	Htg 530 (900)	
Low	Clg 253 (430)	Clg 253 (430)	Clg 265 (450)	Clg 365 (620)	Clg 436 (740)	
Quiet	Htg 253 (430)	Htg 253 (430)	Htg 277 (470)	Htg 365 (620)	Htg 436 (740)	
	Clg 200 (340)	Clg 200 (340)	Clg 200 (340)	Clg 324 (550)	Clg 365 (620)	
Noise Level dB(A) (Clg/Htg): Hi	Htg 206 (350)	Htg 206 (350)	Htg 206 (350)	Htg 324 (550)	Htg 365 (620)	
	36/36	37/37	40/40	43/44	49/48	
	Medium	32/32	33/33	36/36	37/37	42/42
	Low	29/29	29/29	30/31	33/33	37/37
Running Current Rated (A): Cooling	25/25	25/25	25/25	31/31	33/33	
	0.13	0.15	0.19	0.32	0.53	
Heating	0.13	0.15	0.19	0.32	0.53	
	Power Use Rated (w): Cooling	15	17	22	41	69
Heating	15	17	22	41	69	
	Fan Speeds Stage	4+auto	4+auto	4+auto	4+auto	4+auto
Air Direction: Horizontal	Manual	Manual	Manual	Auto	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	
Connection Method	Flare	Flare	Flare	Flare	Flare	
Conn. Pipe Diameter Inch	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4	suc 5/8 dis 1/4	
Net Weight lbs. (kg)	18 (8)	18 (8)	18 (8)	31 (14)	31 (14)	
Dimensions: Height Inch (mm)	11-1/16 (280)	11-1/16 (280)	11-1/16 (280)	12-5/8 (320)	12-5/8 (320)	
	Width Inch (mm)	31-1/16 (790)	31-1/16 (790)	31-1/16 (790)	39-1/4 (998)	
	Depth Inch (mm)	8 (203)	8 (203)	8 (203)	9 (228)	9 (228)
Refrigerant	R410A	R410A	R410A	R410A	R410A	

\*These are based on 100% capacity and AHRI conditions.

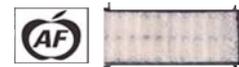
+ The filter can be used for approximately 3 years if it is washed with water when dirty to restore its surface action.

## 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.



### Apple-Catechin Filter

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

## Easy Maintenance

Front panel is easily removed for cleaning.



## Standard Features

- Wireless Remote Control
- Apple Catechin Filter
- Ion Deodorizing Filter
- Sleep Timer
- 24-Hour Timer
- Dry Mode
- Auto Louver: 4-Way\*
- Auto Mode
- Minimum Heat Mode
- Quiet Mode
- Auto Restart/Reset
- Power Diffuser\*

\*Feature of models ASU18, 24RLF only.

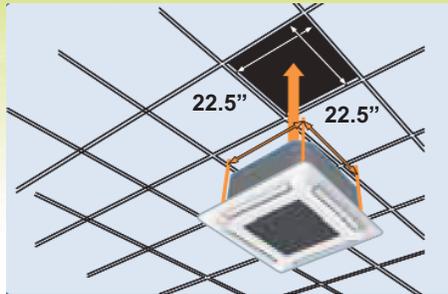
# Compact Cassettes 9, 12, and 18,000 BTUs

AUU9RLF, AUU12RLF, AUU18RLF



## Easy Installation

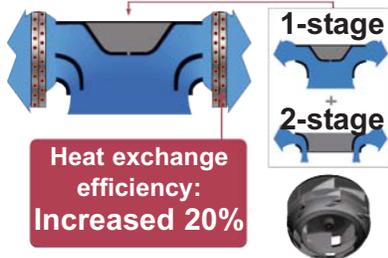
Fits into a standard ceiling tile\*.  
Compact cassette and slim duct models can be networked.



\*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 new 2 stage turbo fan which produces two separate airflow streams.



## Standard Features

- Wired Remote Control
- Sleep Timer
- Dry Mode
- Auto Louver: Up/ Down
- Quiet Mode
- Auto Restart/Reset
- Remote Temperature Sensor
- High Ceiling Mode
- Condensate Pump
- 2-Stage Turbo Fan
- Minimum Heat Mode+
- Fresh Air Intake\*\*



+ Available only with optional wireless remote control.

\*\*Requires Fujitsu's Optional Fresh Air Kit part #UTZ-VXAA. 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.

\* Compact Cassette Grille UTG-CCGF sold separately. Must order one with each compact cassette.

	AUU9RLF Heat Pump	AUU12RLF Heat Pump	AUU18RLF Heat Pump
Nominal Cooling BTU/h	9,000	12,000	18,000
Nominal Heating BTU/h	10,200	13,500	20,000
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Air Circ. C.F.M. (m <sup>3</sup> /h): Hi	318 (540) Clg or Htg	359 (610) Clg or Htg	441 (750) Clg 471 (800) Htg
Medium	288 (490) Clg or Htg	312 (530) Clg or Htg	359 (610) Clg 418 (710) Htg
Low	259 (440) Clg or Htg	277 (470) Clg or Htg	306 (520) Clg 353 (600) Htg
Quiet	230 (390) Clg or Htg	241 (410) Clg or Htg	241 (410) Clg 265 (450) Htg
Noise Level dB(A) Clg/Htg: Hi	33/34	37/37	42/44
Medium	31/32	33/33	37/40
Low	29/29	31/31	33/37
Quiet	27/27	28/28	29/30
Running Current Rated (A): Cooling	0.15	0.19	0.30
Heating	0.15	0.19	0.30
Power Use Rated/Max (W): Clg	18	23	39
Heating	18	23	39
Fan Speeds Stage	4+auto	4+auto	4+auto
Air Direction: Vertical	Automatic	Automatic	Automatic
Air Filter	Washable	Washable	Washable
Front Grille	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*
Connection Method	Flare	Flare	Flare
Conn. Pipe Diameter Inch	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4
Net Weight lbs. (kg)	33 (15)	33 (15)	33 (15)
Chassis Dim: Height Inch (mm)	9-11/16 (245)	9-11/16 (245)	9-11/16 (245)
Width Inch (mm)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
Depth Inch (mm)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
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)
Refrigerant	R410A	R410A	R410A



### Fresh Air Kit\*\* UTZ-VXAA

Mixes room air then passes through the heat exchanger.

# Slim Duct 9, 12, 18 and 24,000 BTUs

ARU9RLF, ARU12RLF, ARU18RLF, ARU24RLF



ARU9, 12RLF

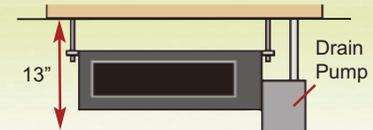
ARU18RLF

ARU24RLF

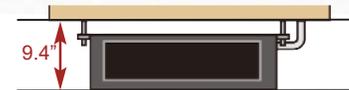
## Slim Duct

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

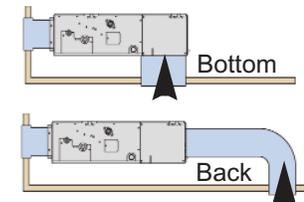
### Traditional



### Slim Duct



## Return Air-intake Choices

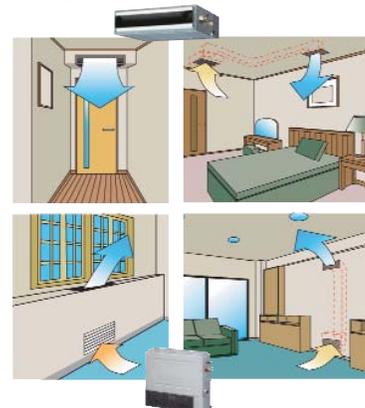


## Standard Features

- Wired Remote Control
- Dry Mode
- Weekly Timer
- Auto Mode
- Quiet Mode
- Auto Restart/Reset
- Condensate Pump
- Fresh Air Intake

## Flexible Installation

Horizontal or vertical.



	ARU9RLF Heat Pump	ARU12RLF Heat Pump	ARU18RLF Heat Pump	ARU24RLF Heat Pump
Nominal Cooling BTU/h	9,000	12,000	18,000	24,000
Nominal Heating BTU/h	10,200	13,500	20,000	27,000
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Static Pressure In. W. C.	0 ~ 0.36	0 ~ 0.36	0 ~ 0.36	0 ~ 0.20
Air Circ. C.F.M. (m <sup>3</sup> /h) Clg/Htg: Hi	353 (600)	383 (650)	554 (940)	783 (1,330)
Medium	324 (550)	353 (600)	518 (880)	730 (1,240)
Low	294 (500)	324 (550)	483 (820)	648 (1,100)
Quiet	265 (450)	283 (480)	442 (750)	607 (1,030)
Noise Level dB(A) (Clg/Htg): Hi	28/28	29/29	32/33	33/35
Medium	27/26	28/28	31/32	32/34
Low	26/25	27/27	30/31	30/32
Quiet	25/24	26/24	29/29	29/29
Running Current Rated (A): Cooling	0.30	0.35	0.44	0.66
Heating	0.30	0.35	0.44	0.66
Power Use Rated (W): Cooling	49	58	73	111
Heating	49	58	73	111
Fan Speeds Stage	4 + Auto	4 + Auto	4 + Auto	4 + Auto
Air Filter	Washable	Washable	Washable	Washable
Connection Method	Flare	Flare	Flare	Flare
Conn. Pipe Diameter Inch	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4	suc 5/8 dis 1/4
Net Weight lbs. (kg)	41 (19)	41 (19)	50 (23)	59 (27)
Dimensions: Height Inch (mm)	7-25/32 (198)	7-25/32 (198)	7-25/32 (198)	7-25/32 (198)
Width Inch (mm)	27-9/16 (700)	27-9/16 (700)	35-7/16 (900)	43-5/16 (1,100)
Depth Inch (mm)	24-13/32 (620)	24-13/32 (620)	24-13/32 (620)	24-13/32 (620)
Supply Duct Flange	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)
Dimensions: Height Inch (mm)	25-19/32 (650)	25-19/32 (650)	33-15/32 (850)	41-11/32 (1,050)
Width Inch (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
Depth Inch (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
Return Duct Flange	6-27/32 (174)	6-27/32 (174)	6-27/32 (174)	6-27/32 (174)
Dimensions: Height Inch (mm)	22-19/32 (574)	22-19/32 (574)	30-15/32 (774)	38-11/32 (974)
Width Inch (mm)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)
Depth Inch (mm)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)
Refrigerant	R410A	R410A	R410A	R410A

## Field Supplied Filters

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

	ARU 9RLF	ARU 12RLF	ARU 18RLF	ARU 24RLF
CFM	353	353	547	806
Typical Filter Size	12 x 20	12 x 20	14 x 25	18 x 30
Velocity, FPM	212	212	225	215
Unit External SP, in. W.C.	0.36	0.36	0.36	0.20
<b>1" Fiberglass Filter</b>				
SP Loss, in. W.C.	0.04	0.04	0.04	0.04
Available Static Pressure	0.32	0.32	0.32	0.16
<b>1" MERV 8 Pleated Filter</b>				
SP Loss, in. W.C.	0.12	0.12	0.14	0.13
Available Static Pressure	0.24	0.24	0.22	0.07
<b>2" MERV 8 Pleated Filter</b>				
SP Loss, in. W.C.	0.07	0.07	0.08	0.07
Available Static Pressure	0.29	0.29	0.28	0.13

# Branch Boxes used with AOU48RLXFZ only

## UTP-PU03A, UTP-PU03B



AOU48RLXFZ requires the use of one UTP-PU03A.

	UTP-PU03A Primary	UTP-PU03B Secondary
Connectable Indoor Unit	1 ~ 3	1 ~ 3
Max. Combination BTU/h	62,000 Nom.*	62,000 Nom.*
Min. Combination BTU/h	7,000 Nom.*	7,000 Nom.*
Clg. Operating Range °F(°C)	25-115 (-5-46)	25-115 (-5-46)
Htg. Operating Range °F(°C)	5-75 (-15-24)	5-75 (-15-24)
%RH	80 or less	80 or less
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1
Maximum Current Ampacity (A)	15	15
Running Current <i>Rated</i> (A): Cooling	0.050	0.050
Heating	0.050	0.050
Power Use <i>Rated</i> (W): Cooling	10	10
Heating	10	10

### Dimensions: Gross (Flare to Flare):

	UTP-PU03A Primary	UTP-PU03B Secondary
Height x Width x Depth <i>Inch</i>	7-5/8 x 33 x 14-5/8	7-5/8 x 33 x 14-5/8
Height x Width x Depth <i>mm</i>	195 x 838 x 370	195 x 838 x 370

### Dimensions: Net (Metal Box Only):

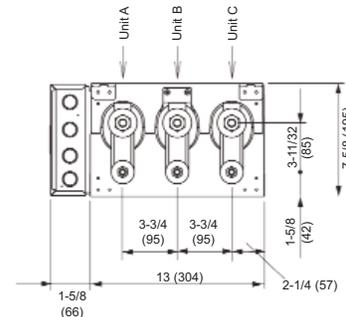
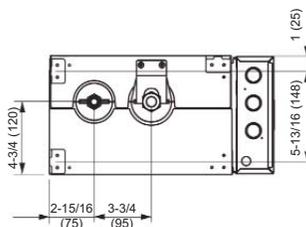
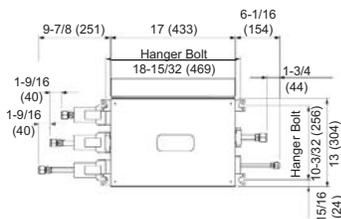
	UTP-PU03A Primary	UTP-PU03B Secondary
Height x Width x Depth <i>Inch</i>	7-5/8 x 17 x 14-5/8	7-5/8 x 17 x 14-5/8
Height x Width x Depth <i>mm</i>	195 x 433 x 370	195 x 433 x 370

Net Weight <i>lbs. (kg)</i>	20 (9)	20 (9)
Conn. Pipe Diameter - Main <i>Inch</i>	(3/8 Liq. x 5/8 Suc.)	(3/8 Liq. x 5/8 Suc.)
Conn. Pipe Diameter - Branch <i>Inch</i>	(1/4 Liq. x 1/2 Suc.) 3 pair	(1/4 Liq. x 1/2 Suc.) 3 pair
Connection Method	Flare	Flare
Connection Adapter Included <i>Inch</i>	(1/2MF x 3/8FF) x 3 (1/2MF x 5/8FF) x 3	(1/2MF x 3/8FF) x 3 (1/2MF x 5/8FF) x 3
	No adapter needed for 18k BTU	No adapter needed for 18k BTU

\*So long as the total system nominal capacity is between 39,000 and 62,000 BTUs.

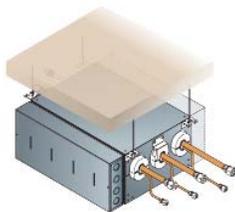
**Warning:** Branch boxes are not weather tight enclosures and cannot be mounted outdoors or in damp environments exceeding 80% relative humidity.

## Dimensions In (mm)



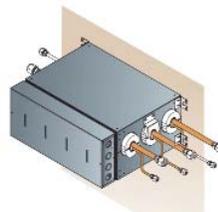
## Allowed Branch Box Mounting Direction

### Threaded Rod Mount



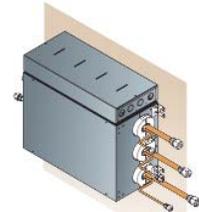
By reversing the electrical box position you can orient the inlet and outlet pipes into a left hand or right hand configuration.

### Horizontal Wall Mount



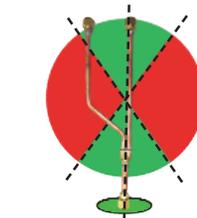
By reversing the electrical box position you can orient the inlet and outlet pipes into a left hand or right hand configuration.

### Vertical Wall Mount



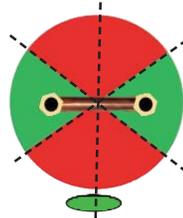
You cannot reverse the electrical box position when mounting the branch box vertically.

## Separation Tube Assembly Kit UTP-SX248A



Vertical - 360° rotation on its vertical axis

+/- 10° of 90° vertical



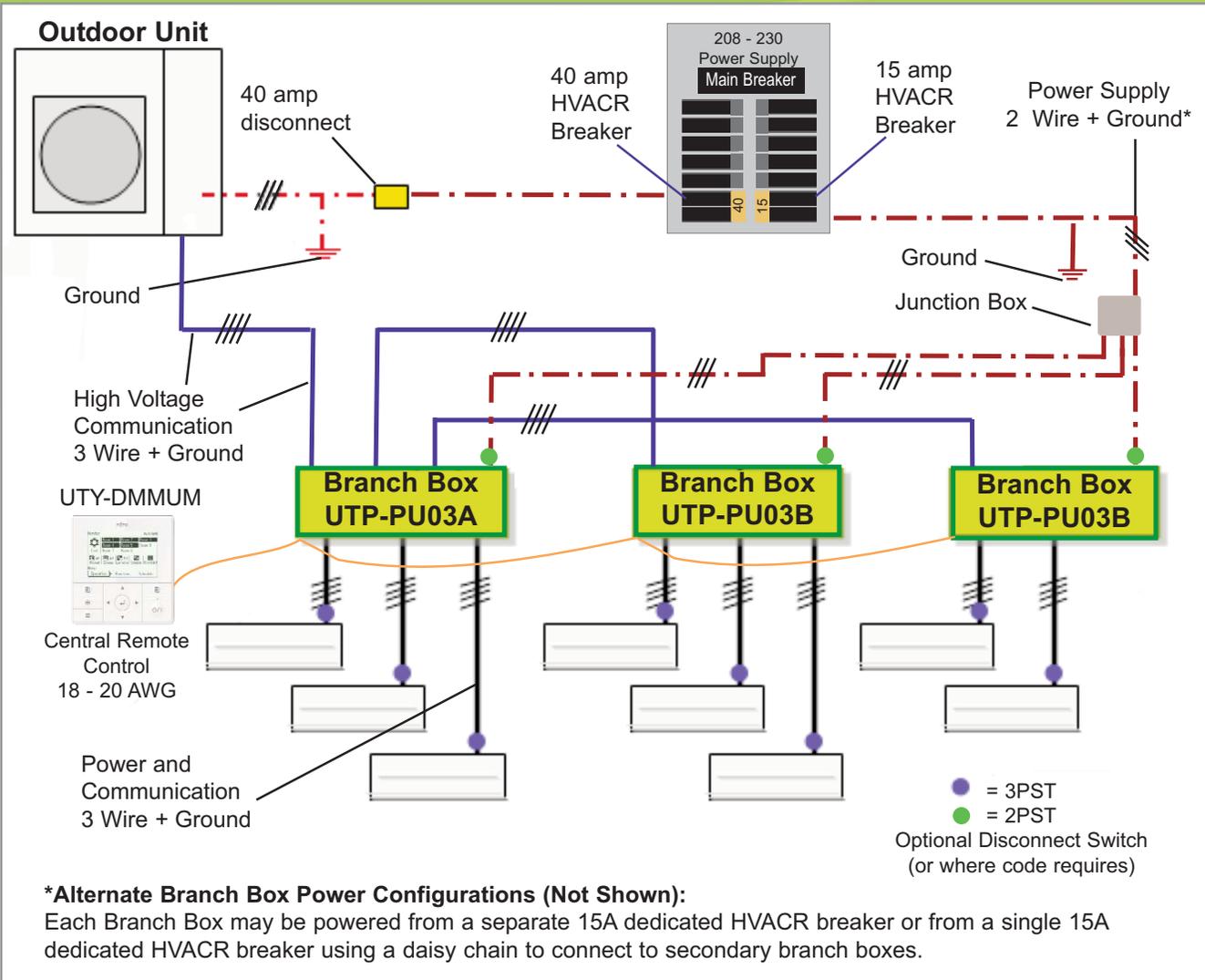
Flat Horizontal - 360° rotation on its vertical axis

+/- 10° of 0° horizontal

Used with  
AOU48RLXFZ  
**ONLY.**

Size	Liquid <i>Inch</i>	3/8 x 3/8 x 3/8
	Suction <i>Inch</i>	5/8 x 5/8 x 5/8

# Wiring for AOU48RLXFZ



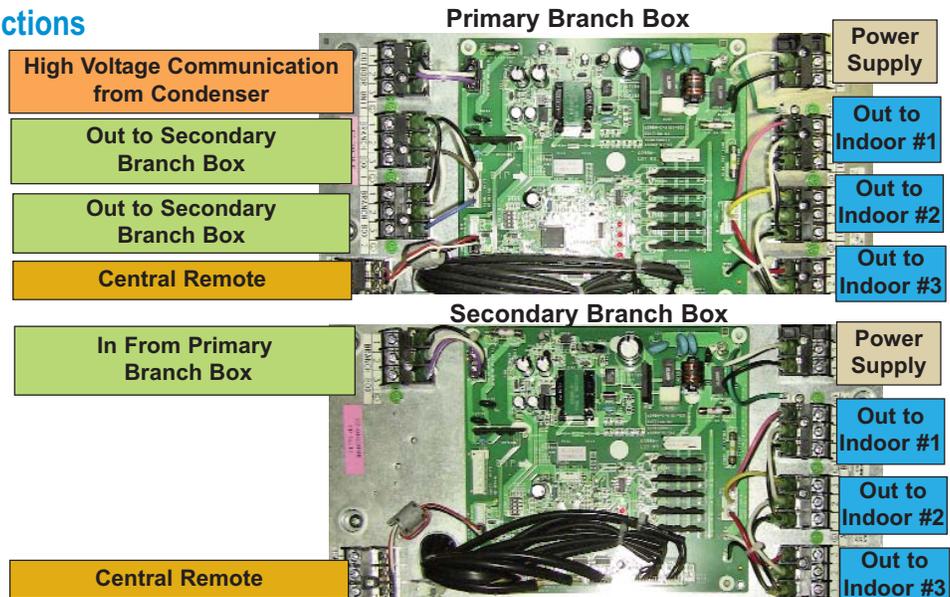
## Branch Box Terminal Connections

for AOU48RLXFZ

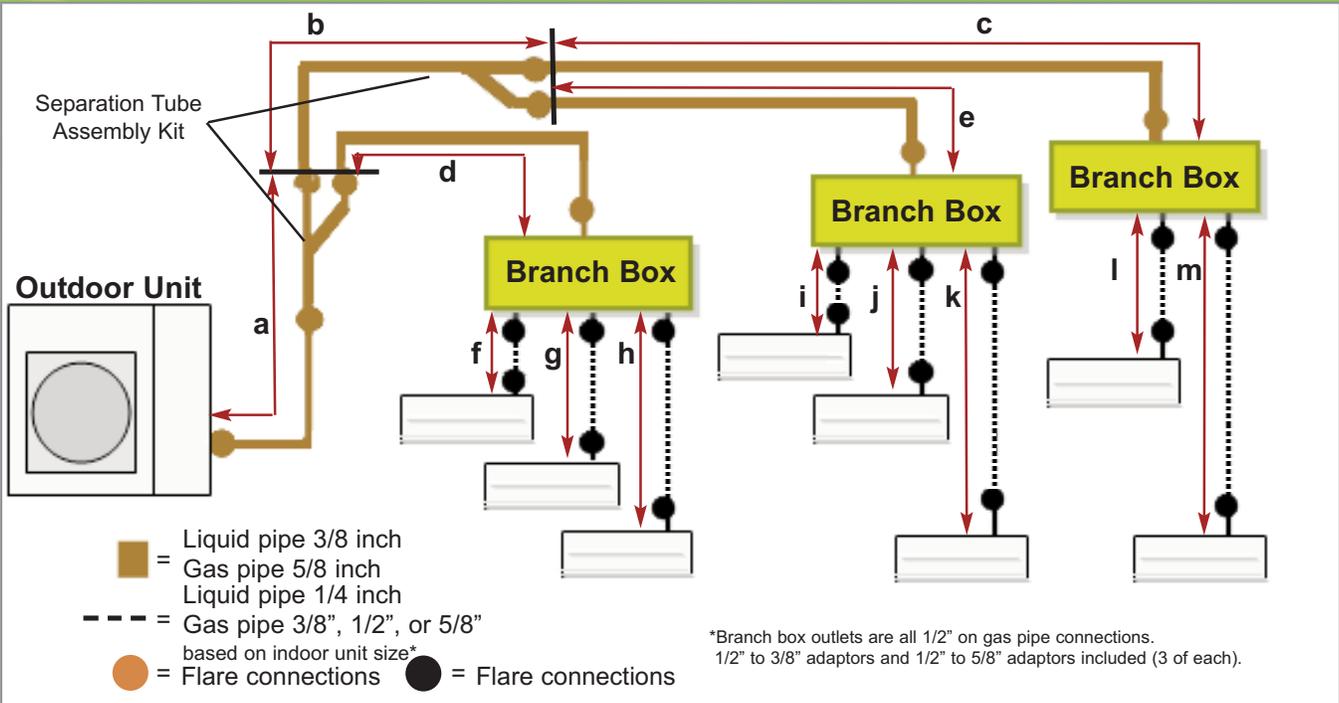
### Miswiring Detection

Errors Detected For...

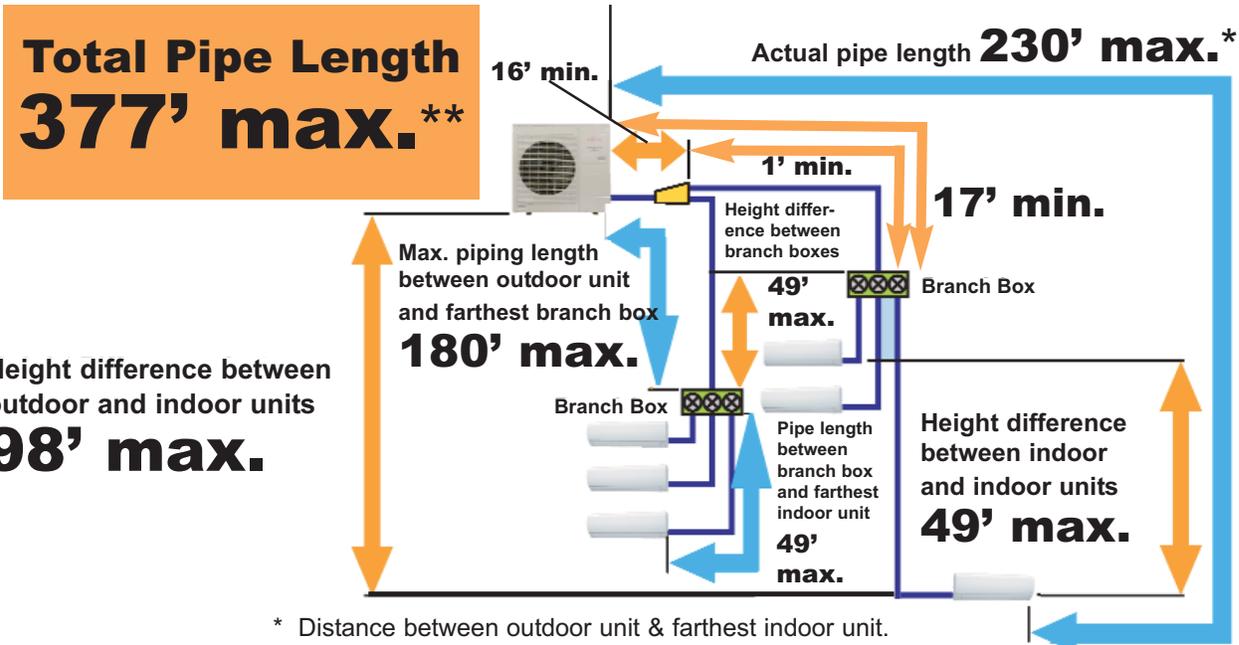
- Miswired terminals
- Incorrect indoor unit
- Less than 2 or more than 8 indoor units
- Less than 39,000 or more than 62,000 BTUs



# Piping for AOU48RLXFZ



		Liquid pipe	Adaptor	Gas pipe
<b>Branch Box to Indoor</b>	7,000 BTU	1/4 inch	included	3/8 inch
	9,000 BTU		included	
	12,000 BTU		included	
	18,000 BTU		n/a	1/2 inch
	24,000 BTU		included	5/8 inch
<b>Calculate Refrigerant Charge</b>	<b>Pipe Diameter</b>	<b>Location</b>		<b>Additional Refrig.</b>
	3/8"	Outdoor to Branch Box		0.624 oz./ft. or 58g/meter
	1/4"	Branch Box to Indoor Unit		0.224 oz./ft. or 21g/meter
Factory Charge 7.6 lb (3.45 kg) Unit pre-charged to 0 feet				
(Total length of 3/8" liquid line × 0.624 oz./ft. or 58g/meter) + (Total length of 1/4" liquid line × 0.224 oz./ft. or 21g/meter)				
(a+b+c+d+e) × 0.624 oz./ft. or 58g/meter + (f+g+h+i+j+k+l+m) × 0.224 oz./ft. or 21g/meter = additional refrigerant				



\* Distance between outdoor unit & farthest indoor unit.  
\*\* Total liquid pipe or total gas pipe.

# Ceiling Cassette Systems

SYSTEMS 18RCLX, 24RCLX, 36RCLX, 42RCLX



## Function

Up to 16-SEER, these models provide up to 30% increase in efficiency over 13-SEER models. These models offer the ability to send up to 38% of their capacity through two branch ducts to adjacent rooms. Slender fit feature now offered on all models decreases space required above the ceiling increasing application opportunities.

## Standard Features

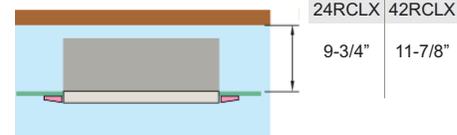
- Dry Mode
- Auto Louver: Up/ Down
- Auto Mode
- Energy Saver
- Auto Restart/Reset
- Auto Changeover
- Fresh Air Intake\*
- Low Ambient
- Cold Prevention
- Slender Fit
- Pump Down Operation
- High Ceiling Mode
- Branch Duct Capable
- Built-in Condensate Pump

## Applications

Four-way airflow, concealed flush mount design and the ability to operate in high ceiling rooms makes these systems ideal for commercial applications such as offices, conference rooms, restaurants, night clubs and bars in retrofit and new construction. Long maximum combined piping lengths of 165 to 230 feet with 60 to 98 feet of height, depending on model, allow the outdoor unit to be remotely located up to 7 stories away and far from indoor unit. The ceiling cassettes are also used in new construction condominiums and homes taking advantage of their branch duct capability to feed adjacent rooms. These heat pumps provide up to 30% additional available heat when compared to conventional models.

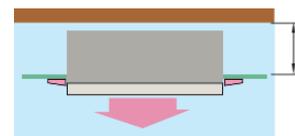
## Standard Wired Remote

- Weekly timer
- Set on-off time twice a day
- Set different on-off time by day
- Set time in 5 minute intervals
- Control up to 16 indoor units
- Child lock capable
- Remote temperature sensor



Standard Depth	
18RCLX	36RCLX
24RCLX	42RCLX

9-3/4"    11-7/8"



Slender Fit Depth	
18RCLX	36RCLX
24RCLX	42RCLX

8-1/2"    10-1/2"

## Slender Fit

Cassette body can be moved downward into the room 1-3/8" to accommodate limited ceiling space.

\*Fresh air knockout available. Fresh air fan and ductwork field supplied. See design and technical manual for details. Fujitsu fresh air intake kit available part #KHRS940-25.



**Fujitsu provides knock-outs on all ceiling cassettes where contractors can:**

- Install optional field supplied branch ducts on up to two sides to supply up to 18% capacity per side to adjoining spaces up to 16 feet away. See Design and Technical Manual for details.



	18RCLX	24RCLX	36RCLX	42RCLX
	Heat Pump	Heat Pump	Heat Pump	Heat Pump
Nominal Cooling BTU/h	17,800	22,200	34,100	42,700
Min.~Max. Cooling BTU/h	5,000~21,500	5,000~27,300	8,500~36,000	13,700~45,000
Nominal Heating BTU/h	21,000	24,200	36,000	45,200
Low Temp. Heating 17°F BTU/h	11,300	14,600	23,000	28,200
Min.~Max. Heating BTU/h	5,000~25,600	5,000~29,000	9,200~42,700	14,300~54,600
HSPF BTU/hW	8.5	8.5	8.5	8.5
SEER BTU/hW	16.0	15.0	14.0	15.0
EER Clg/Htg	11.1 / 10.2	10.6 / 10.2	8.1 / 9.7	9.2 / 10.5
Clg. Operating Range °F(°C)	0~115 (-18~46)	0~115 (-18~46)	0~115 (-18~46)	0~115 (-18~46)
Htg. Operating Range °F(°C)	14~75 (-10~24)	14~75 (-10~24)	14~75 (-10~24)	0~75 (-18~24)
Moisture Removal Pt./h(l/h)	5.3 (2.5)	6.4 (3.0)	8.5 (4.0)	11.6 (5.5)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	20	20	30	30
Air Circ. C.F.M. (m <sup>3</sup> /h): Hi	559 (950)	618 (1,050)	942 (1,600)	1,000 (1,700)
Medium	477 (810)	536 (910)	824 (1,400)	854 (1,450)
Low	394 (670)	436 (740)	677 (1,150)	736 (1,250)
Noise Level dB(A): Hi	42/40 (Clg/Htg)	45/43 (Clg/Htg)	48/48 (Clg/Htg)	50/50 (Clg/Htg)
Medium	39/38 (Clg/Htg)	43/39 (Clg/Htg)	45/45 (Clg/Htg)	48/48 (Clg/Htg)
Low	36/36 (Clg/Htg)	38/35 (Clg/Htg)	41/41 (Clg/Htg)	44/44 (Clg/Htg)
Outdoor Fan Speed RPM	780/780	850/900	850/900	850/750
Outdoor Noise Level dB(A)	51/53 (Clg/Htg)	53/55 (Clg/Htg)	54/55 (Clg/Htg)	55/56 (Clg/Htg)
Current Rated/Max (A): Cooling	7.0/12.5	9.2/12.5	18.3/18.8	20.3/21.7
Heating	8.9/12.5	10.4/12.5	16.1/18.8	18.8/21.7
Power Use Rated/Max (kw): Clg	1.61/2.88	2.10/2.88	4.22/4.35	4.66/4.99
Heating	2.05/2.88	2.37/2.88	3.70/4.35	4.31/4.99
Fan Speeds Stage	3 + Auto	3 + Auto	3 + Auto	3 + Auto
Air Direction: Horizontal	-	-	-	-
Vertical	Automatic	Automatic	Automatic	Automatic
Air Filter	Washable	Washable	Washable	Washable
Front Grille	Removable	Removable	Removable	Removable
Connection Method	Flare	Flare	Flare	Flare
Combined Max. Lgth Ft (m)	165 (50) Each	165 (50) Each	165 (50) Each	230 (70) Each
Max. Vertical Diff. Ft (m)	65 (20)	65 (20)	98 (30)	98 (30)
Conn. Pipe Diameter Inch	Suc. 1/2 Dis. 1/4	Suc. 5/8 Dis. 3/8	Suc. 5/8 Dis. 3/8	Suc. 5/8 Dis. 3/8
Net Weight lbs. (kg)	75 (34) 141 (64)	75 (34) 141 (64)	82 (37) 141 (64)	88 (40) 231 (105)
Dimensions: Height Inch	9-3/4 32-3/4	9-3/4 32-3/4	11-5/8 32-3/4	11-5/8 50-7/8
mm	246 830	246 830	296 830	296 1290
Width Inch	32-3/4 35-1/2	32-3/4 35-1/2	32-3/4 35-1/2	32-3/4 35-1/2
mm	830 900	830 900	830 900	830 900
Depth Inch	32-3/4 13	32-3/4 13	32-3/4 13	32-3/4 13
mm	830 330	830 330	830 330	830 330
Refrigerant	R410A	R410A	R410A	R410A
	Indoor AUU18RCLX Outdoor AOU18RLX	Indoor AUU24RCLX Outdoor AOU24RLX	Indoor AUU36RCLX Outdoor AOU36RLX	Indoor AUU42RCLX Outdoor AOU42RLX

Note: Figures are based on 230 Volts.

# Ceiling and Universal Mounted Systems

## SYSTEMS 18RULX, 24RULX, 36RSLX



**UP TO 16-SEER**

### Function

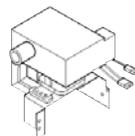
The 18RULX and the 24RULX are universal mount. They can mount low on the wall or transverse mount them on the ceiling. The 36RSLX can only be mounted on the ceiling, can take in fresh air and can throw air farther.

### Standard Features

- Wireless Remote Control
- 24 Hour Timer
- Dry Mode
- Auto Louver: 4 Way
- Auto Mode
- Pump Down Operation
- Auto Restart/Reset
- Auto Changeover
- Low Ambient
- Cold Prevention
- Energy Saver
- Fresh Air Intake\*

### Optional Accessories

- **Wired Remote Control UTY-RNBYU**
  - ▣ Weekly Timer
  - ▣ Full Function Wired Remote
  - ▣ Child Lock Capable
- **Condensate Pump UTR-DPB24T**
  - ▣ OEM design plug and play
  - ▣ Rated for 11.8" of vertical lift.
  - ▣ Available for System 36RSLX.



### Applications

The universal mount 18RULX and 24RULX are ideal for a house of worship to mount beneath stained glass windows. Lower in height than the pews, they do not disturb the aesthetics of the space. With long piping lengths of 165' the outdoor units can also be placed remotely out of sight. Another popular application for this model is in hallways where wall space is limited. The 36RSLX is popular where fresh air intake and high capacity is required like a restaurant or bar. They are also often suspended from threaded rod and used in multiple to condition large warehouse spaces.

\*Fresh air knockout available. Fresh air fan and ductwork field supplied. See Design and Technical Manual for details

	18RULX	24RULX	36RSLX
	Heat Pump	Heat Pump	Heat Pump
Nominal Cooling BTU/h	17,800	22,200	34,100
Min.-Max. Cooling BTU/h	5,000~21,600	5,000~27,300	8,500~36,000
Nominal Heating BTU/h	21,500	24,000	36,500
Low Heating 17°F BTU/h	13,000	15,000	23,400
Min.-Max. Heating BTU/h	5,000~25,600	5,000~29,000	9,200~42,700
HSPF BTU/hW	8.5	8.5	8.5
SEER BTU/hW	16.0	15.0	14.0
EER Clg/Htg	10.9/9.6	9.9/10.2	8.1/10.4
Clg. Operating Range °F(°C)	0~115 (-18~46)	0~115 (-18~46)	0~115 (-18~46)
Htg. Operating Range °F(°C)	14~75 (-10~24)	14~75 (-10~24)	14~75 (-10~24)
Moisture Removal Pt./h(l/h)	5.3 (2.5)	7.4 (3.5)	7.4 (3.5)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	20	20	30
Air Circ. C.F.M. (m <sup>3</sup> /h): Hi	459 (780)	518 (880)	1089 (1850)
Medium	383 (650)	436 (740)	977 (1660)
Low	324 (550)	371 (630)	842 (1430)
Noise Level dB(A): Hi	43/43 (Clg/Htg)	47/47 (Clg/Htg)	48/48 (Clg/Htg)
Medium	39/39 (Clg/Htg)	43/43 (Clg/Htg)	45/43 (Clg/Htg)
Low	35/35 (Clg/Htg)	38/38 (Clg/Htg)	41/39 (Clg/Htg)
Outdoor Fan Speed RPM	780/780	850/900	850/900
Outdoor Noise Level dB(A)	51/53	53/55	54/55
Current Rated/Max (A): Cooling	7.1/12.5	9.8/12.5	18.3/18.8
Heating	9.8/12.5	10.2/12.5	15.3/18.8
Power Use Rated/Max (kw): Cooling	1.63/2.88	2.25/2.88	4.22/4.35
Heating	2.25/2.88	2.35/2.88	3.50/4.35
Fan Speeds Stage	3 + Auto	3 + Auto	3 + Auto
Air Direction: Horizontal	Automatic	Automatic	Automatic
Vertical	Automatic	Automatic	Automatic
Air Filter	Washable	Washable	Washable
Front Grille	Permanent	Permanent	Permanent
Connection Method	Flare	Flare	Flare
Combined Max. Lgth Ft (m)	165 (50)	165 (50)	165 (50)
Max. Vertical Diff. Ft (m)	66 (20)	66 (20)	98 (30)
Conn. Pipe Diameter Inch	Suc.1/2 Dis. 1/4	Suc.5/8 Dis. 3/8	Suc.5/8 Dis. 3/8
Net Weight lbs. (kg)	62 (28)	141 (64)	62 (28) 141 (64) 106 (48) 141 (64)
Dimensions: Height Inch	7-7/8	32-3/4	7-7/8 32-3/4 9-1/2 32-3/4
mm	199	830	199 830 240 830
Width Inch	39-1/8	35-1/2	39-1/8 35-1/2 65-1/2 35-1/2
mm	990	900	990 900 1660 900
Depth Inch	25-7/8	13	25-7/8 13 27-5/8 13
mm	655	330	655 330 700 330
Refrigerant	R410A	R410A	R410A

Indoor ABU18RULX Outdoor AOU18RLX Indoor ABU24RULX Outdoor AOU24RLX Indoor ABU36RSLX Outdoor AOU36RLX

Note: Figures are based on 230 Volts.



## Things To Know Before You Buy a Fujitsu System

### Complete System Warranty

Warranties vary depending on model:

2 Year Parts, 6 Year Compressor Warranty **OR**

5 Year Parts, 7 Year Compressor Warranty.



Note: Condensing units come pre-charged from factory. Additional refrigerant may be required, be sure to check installation manual for more details.

- Cooling capacity is based on the following conditions:
  - Indoor temperature: 80°F DB/67°F WB (26.7°C DB/19.4°C WB)
  - Outdoor temperature: 95°F DB/75°F WB (35°C DB/23.9°C WB)
- Heating capacity is based on the following conditions:
  - Indoor temperature: 70°F DB (21.1°C DB)
  - Outdoor temperature: 47°F DB/43°F WB (8.3°C DB/6.1°C WB)

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### Non-Internet Retail Policy

Internet sales are strictly prohibited and unauthorized. Any HVAC systems purchased on the Internet, from an online retailer or any similar e-tailing website, OR where the original factory serial numbers of the display have been removed, defaced, or replaced in any way **WILL NOT BE COVERED BY WARRANTY.**

## Things To Know Before You Install a Fujitsu 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 Fujitsu. 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 Fujitsu General America, Inc. Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details or visit [www.energystar.gov](http://www.energystar.gov).

### Heat Pump Disclaimer

In most climates a heat pump will handle all of your heating needs. However, this system sometimes requires some other additional source of heat to satisfy heating requirements in the coldest environments. Almost all of Fujitsu's 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.

### Disclaimer

Fujitsu's products are subject to continuous improvements. Fujitsu reserves the right to modify product design, specifications and information in this brochure without notice and without incurring any obligations.

## Certifications

### ISO

ISO14001 is the standard defined by the International Organization for Standardization (ISO) related to environmental management systems. Fujitsu General America, Inc. has been acknowledged by an internationally accredited compliance organization as having an appropriate program of environmental protection procedures and activities to meet the requirements of ISO14001. The air conditioners manufactured by Fujitsu have received ISO9001 series certification for quality assurance.



Intertek



• ISO9001  
• ISO14001

### ASTM

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

### RoHS Compliant

Fujitsu participates in the RoHS Directive, which is the Restriction of Hazardous Substances in electrical and electronic equipment. It is an EU directive intended protect the environment by forcing manufacturers to eliminate or severely curtail the use of cadmium, hexavalent chromium, and lead in all products from automobiles to consumer electronics.



## Fujitsu Model Nomenclature

Model	48	R	L	X	F	Z
ASU Wall Mount	BTUs in thousands	R = Reverse cycle heat pump	M = Multi-Zone	L = Inverter	Q = IAQ	Z = Zone
ABU Universal Mount Ceiling Suspended		C = Cooling only	C = Cassette	X = Extended Line Set	X = Extended Line Set	W = Wall Mount Only
ARU Concealed Ceiling			S = Ceiling Suspended	Q = IAQ		
AUU Cassette Mount			L = Inverter	S = Super Efficient	S = Super Efficient	
AOU Outdoor Unit			U = Universal	F = HFI	F = HFI	

For over 35 years,  
making the hottest places cool  
and the coolest places...  
**more comfortable.**

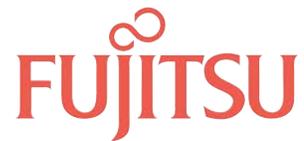


**Halcyon Mini-Splits are  
for you if:**

- Central air quotes give you sticker shock
- You don't want to lose closet space to ductwork
- You have warm or cold spots in your home or business
- Your window air conditioner's noise prevents you from hearing the television



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