

# Mini-Split Air Conditioners and Heat Pumps for Residential and Light Commercial Applications







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# Fujitsu Mini-Splits: Year-Round, Whole-Home or Business Energy Efficient Heating and Cooling

## What is a Mini-Split?

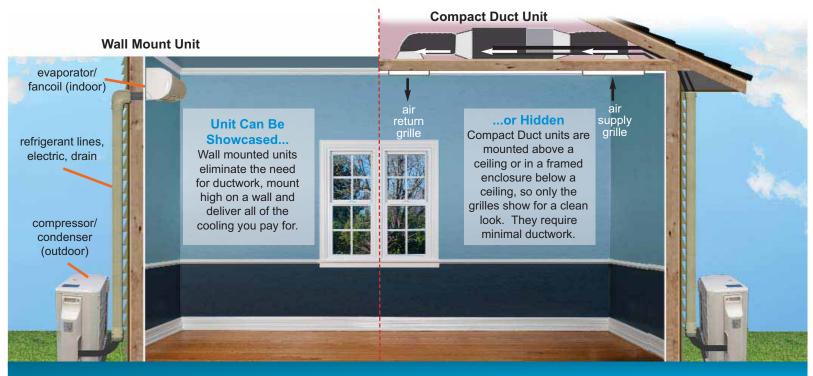
Halcyon systems eliminate the need for a basement or attic-located evaporator unit and bulky ductwork by using thin copper tubing that pumps refrigerant directly to discreet wall mounted or concealed units inside. Even more remarkable, this same unit works in reverse in winter, absorbing heat from the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

Available in numerous mix-and-match capacities and configurations, there's a Halcyon mini-split system for even the most difficult to heat and cool areas.



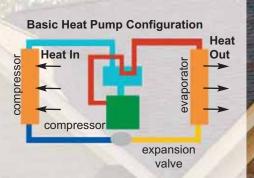
## **How Does a Mini-Split Work?**

Like your refrigerator, heat pumps use electricity to pump refrigerant and transfer heat from one space to another. 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".



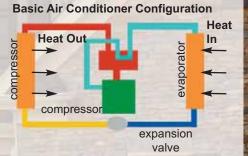
## **Heat Pumps Provide Heat When it is Chilly**

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 absorbs 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!



## Air Conditioners Provide Cooling When It's Warm

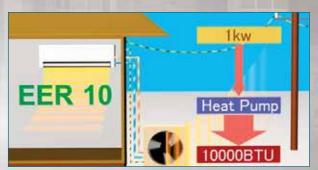
Come spring and summer, simply reverse the process and put the same system into "cooling mode" and transfer heat from indoors to the outside. For many climates, the advanced technology that goes into these units creates a far more cost effective alternative to either gas or oil-fired units for heat, 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.



# Electric Heaters versus Heat Pumps



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



Heat pumps are more efficient than some other forms of heating because heat pumps 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.

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

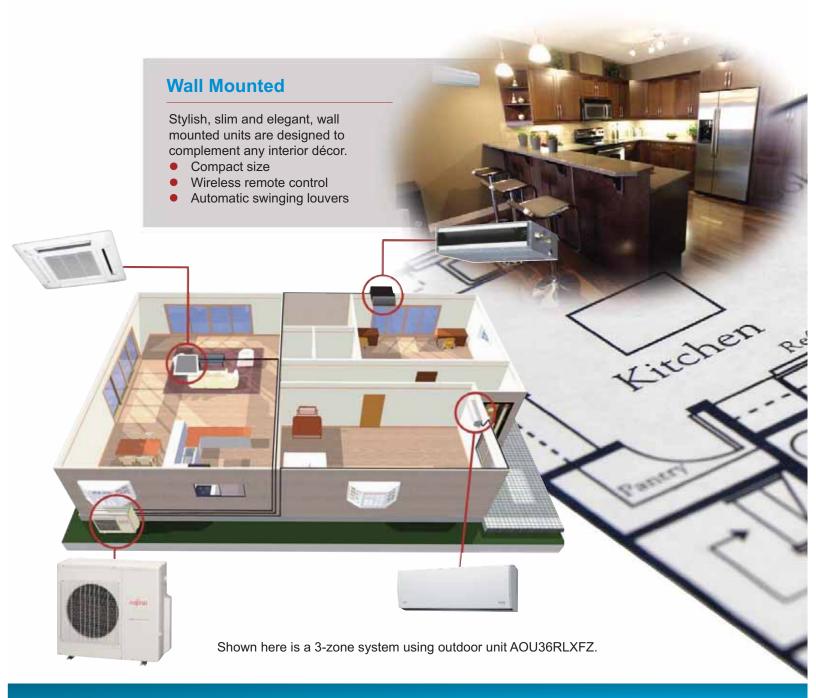
# **Individual Zoning: Personalized Whole Home Comfort**

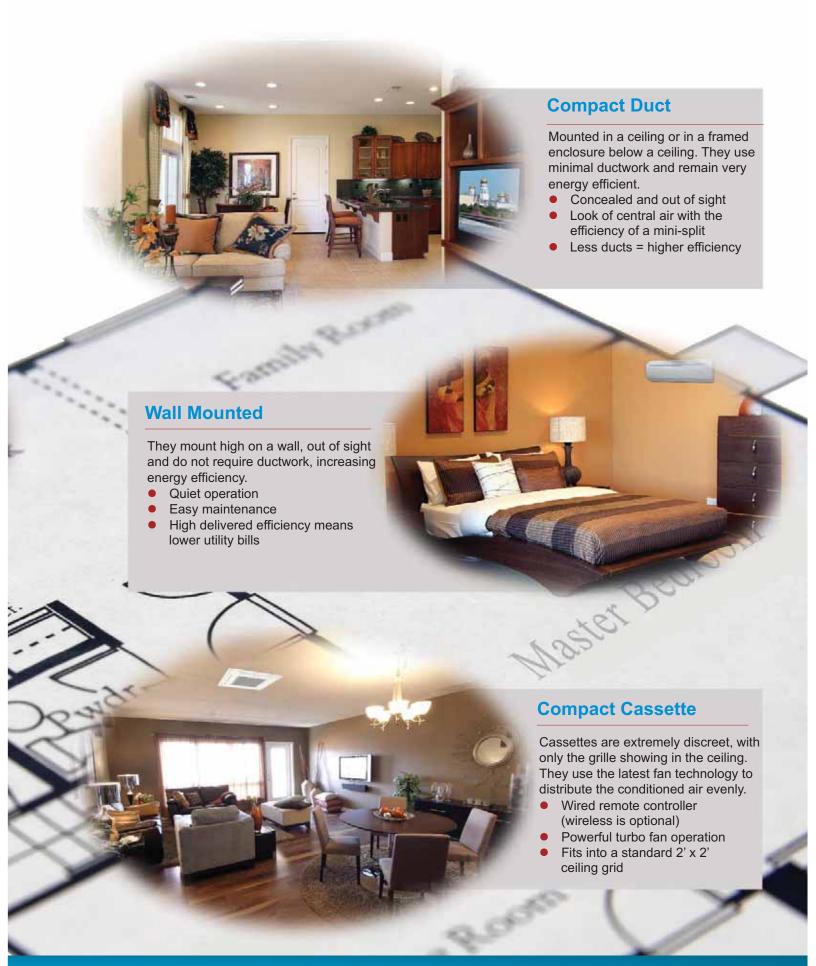
Halcyon HFI Systems are some of today's most advanced forms of heating and air conditioning. One outdoor unit can operate up to 8 indoor units simultaneously. Fujitsu's HFI Systems are super quiet as well as highly energy efficient.

- 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







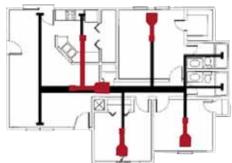


## A Solution for All of Your Comfort Needs

## **Ductless Technology**

Don't waste money cooling and heating the ducts in your walls and attic. Fujitsu systems are ductless, meaning they install easily and won't take up valuable closet space. Since mini-splits have little to no ducting, they forego those energy losses typically associated with central forced-air systems. Duct losses in a central air system 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.

#### Central Air System versus Fujitsu HFI Quad Zone



Thick black lines represent ducts of a Central Air System.

Red lines represent miniducts of a Fujitsu Quad Zone Compact Duct System.

## **Whole Home or Business Comfort**

Fujitsu's Halcyon HFI systems provide home and business owners just the right amount of heating and cooling needed by installing 2 to 8 indoor units connected to one outdoor unit. Indoor units vary by size and style 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 Halcyon 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.





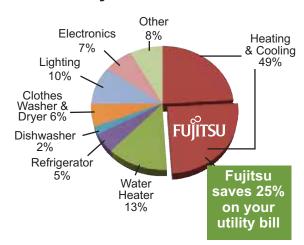
## **Energy Efficient: The Smart Choice in Comfort**

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

## Where Does My Money Go?

The high energy efficiencies of
Halcyon systems slash utility
bills by up to 25%. If your
average annual utilities are
\$4,200, Fujitsu can save you up to
\$1,050 annually or \$10,500 in 10 yrs!\*

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



#### **Rebates**

To encourage customers to buy energy efficient products, many local utility companies offer significant rebates for the purchase of a ductless mini-split system. Go to Fujitsu's web site to search for local rebates, consumer loans and utility bill discounts. We provide a listing of rebates and offerings on qualifying Fujitsu mini-splits by state. www.fujitsugeneral.com/utility\_rebates.htm



# DE ARTHER DE SEA

## Federal Tax Credit Up To \$300 through 2013

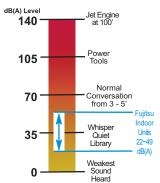
A tax credit can provide significant savings. It reduces the amount of income tax you have to pay. Unlike a deduction, which reduces the amount of income subject to tax, a tax credit directly reduces the tax itself.

- Federal tax credits are effective for systems purchased through December 31, 2013 for "Qualified Energy Property"
- The federal tax credit for qualified equipment is 10% of the amount paid but shall not exceed \$300 for the qualified energy property.
- Fujitsu has 16 qualifying systems in 2013
- Check with your tax professional for details and visit www.energystar.gov and click on "Tax Credits" for additional information.

## **Comfort and Convenience**

#### 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 floorstanding. Ductless heat pumps allow for a peaceful inside environment by enabling the contractor to install components like compressors and motors outdoors.



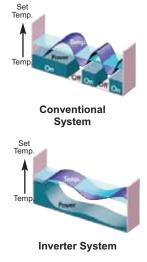


# Constant Comfort through Inverter Technology

Inverter technology 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 air conditioners.

#### **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





## **User Friendly Control**

Fujitsu 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. We are producing control systems that provide greater convenience for both individual and centralized control with operability suitable for the application.



# **Applications**











# Where can 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!











# **Feature Explanation**

#### SEEF

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.



#### **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.



#### 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.



## oo 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  $50^{\circ}\text{F}$ , 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.

+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.



#### **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 <u>or</u> cooling if the room temperature falls 4°F below the set temperature when cooling <u>or</u> 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.



#### Slander Eit

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



#### **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



## **Daisy Chain**

Ability to connect up to 16 identical style indoor units to one wired remote.



#### High Cailing 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 Intak

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



#### **Base Pan Heater**

Prevents condensate from freezing on the outdoor unit.



## Third Party Device Control Turns system on or off using a normally closed circuit.

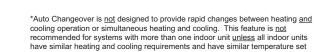
Interface with third party devices such as home automation.



#### Warranty

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

points. If all indoor units have similar heating and cooling requirements and have



similar temperature set points, auto changeover will work

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<sup>^</sup> SEER and HSPF ratings depend on combination of indoor units and outdoor unit selected.

<sup>^</sup> SEER and HSPF ratings depend on combination of indoor units and outdoor unit selected.

□ Available only with optional wired remote controller.

△ Available only with optional wireless remote controller.

◆ Available only with optional interface Kit.

◆ Available only with optional Fresh Air Intake Kit.

★ Available only with optional Fresh Air Intake Kit.

★ Available only with optional Fresh Air Intake Kit.

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# **Single Zone And Multi-Zone Systems Lineup**

SINGLE ZONE MINI-SPLI	τs		
вти	9,000	12,000	15,000
Wall Mount 115V Inverter	ASU9RL2 / AOU9RL2	ASU12RL2 / AOU12RL2	
Wall Mount High SEER	S ASU9RLS2/AOU9RLS2	S ASU12RLS2 / AOU12RLS2	ASU15RLS2 / AOU15RLS2
Wall Mount Extra Low Temp Heating	S ASU9RLS2/AOU9RLS2H	S ASU12RLS2 / AOU12RLS2H	ASU15RLS2 / AOU15RLS2H
Wall Mount Heat Pump	S ASU9RLF / AOU9RLFW	S ASU12RLF / AOU12RLFW	
Wall Mount Cooling Only			
Universal Mount Floor/Ceiling			
Ceiling Suspended			
Compact Duct	S ARU9RLF / AOU9RLFC	S ARU12RLF / AOU12RLFC	
Compact Cassette	S AUU9RLF / AOU9RLFC	S AUU12RLF / AOU12RLFC	
Large Cassette			

#### **MULTI ZONE MINI-SPLITS - INDOOR UNITS**

BTU	7,000	9,000	12,000	15,000	18,000	24,000
Compact Wall Mount	ASU7RLF	ASU9RLF	ASU12RLF			
Designer Series Wall Mount		ASU9RLS2	ASU12RLS2	ASU15RLS2		
Large Wall Mount					ASU18RLF	ASU24RLF
Compact Duct		ARU9RLF	ARU12RLF		ARU18RLF	ARU24RLF
Compact Cassette		AUU9RLF	AUU12RLF		AUU18RLF	

<sup>💸</sup> Indicates system is ENERGY STAR® Qualified in 2013. (§) Indicates system qualifies for Federal Tax Credit in 2013.

18,000	24,000	30,000	36,000	42,000
<b>*</b>	•			
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ASU18CL / AOU18CL	ASU24CL1 / AOU24CL1	ASU30CLX1 / AOU30CLX1	ASU36CLX1 / AOU36CLX1	
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#### **MULTI ZONE MINI-SPLITS - OUTDOOR UNITS**

BTU	18,000	24,000	36,000	48,000
2 Indoor Units	<b>S</b> <sup>+</sup> <b>S</b> <sup>+</sup> <b>A</b> OU18RLXFZ			
2 - 3 Indoor Units		<b>♦</b> † <b>§</b> † AOU24RLXFZ		
2* - 4 Indoor Units			AOU36RLXFZ	
2 - 8 Indoor Units				AOU48RLXFZ1

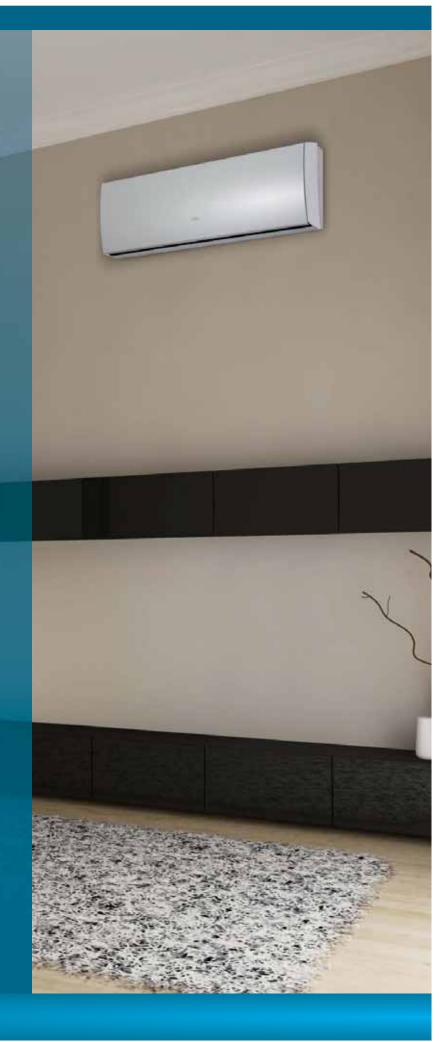
- \* If AOU36RLXFZ is paired with two 18,000 BTU indoor units, you have to purchase optional kit Part #K9FZ1818.

  + The only combinations that qualify are AOU18RLXFZ with (2) ASU9RLF, AOU18RLXFZ with (1) ASU7RLF + (1) ASU12RLF, AOU18RLXFZ with (2) ASU7RLF + (1) ASU9RLF.

# 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/h
- 30 different systems available in 10 indoor unit styles
- Energy efficient systems with SEER ratings as high as 27.2 and HSPF as high as 13.0
- 15 ENERGY STAR® Qualified systems
- Inverter Technology is used in all systems
- All systems feature environmentally friendly R410A refrigerant
- Quiet operation with indoor units as low as 21 dB and outdoor units as low as 47 dB



# Wall Mounted 115V Inverter 9, and 12,000 BTU Systems

SYSTEMS 9RL2, 12RL2



#### **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. These 16-SEER heat pump systems now feature Inverter technology, environmentally friendly R410A refrigerant, both heating and cooling operation, quiet mode and easy maintenance.

## **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? Fujitsu 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.

## **Easy Maintenance**

Front panel is easily removed for cleaning.



## **Standard Features**

- Wireless Remote Control
- Sleep Timer
- Dry Mode
- Auto Louver
- Auto Mode
- Powerful Operation
- Quiet Mode
- Economy Mode
- Auto Restart/Reset
- Auto Changeover
- Low Ambient
- Cold Prevention











16.0 SEER

	9R Heat I		12F Heat I			
Nominal Cooling BTU/h	9,0	00	12,0	000		
Nominal Heating BTU/h	10,0	000	14,0	000		
HSPF BTU/hW	9.	0	9.	0		
SEER BTU/hW	16	.0	16	.0		
EER Clg/Htg	10.8/	13.0	10.0/	11.5		
Clg. Operating Range °F(°C)	15~115 (	(-10~46)	15~115 (	-10~46)		
Htg. Operating Range °F(°C)	15~75 (	-10~24)	15~75 (·	-10~24)		
Moisture Removal Pt./h(l/h)	1.3 (	(2.7)	1.8 (	3.8)		
Voltage/Frequency/Phase	115/	60/1	115/	30/1		
Recommended Fuse Size (A)	1	5	2	0		
Air Circ. C.F.M. (m³/h): Hi	436 (	740)	436 (	740)		
Medium	353 (	(600)	353 (	600)		
Low	265 (	(450)	265 (	450)		
Quiet	191 (	(325)	191 (	325)		
Noise Level dB(A) Clg/Htg: Hi	43/	43	43/	43		
Medium	38/	'38	38/	38		
Low	33/	33	33/	33		
Quiet	23/	23	23/	23		
Outdoor Fan Speed RPM	73	30	860			
Outdoor Noise Level dB(A) Clg/Htg	47/	48	51/	51		
Current (A): Cooling	7.	5	10	.9		
Heating	7.	.0	11	.0		
Power Use (kw): Cooling	0.0	33	1.2	20		
Heating	0.7	77	1.2	21		
Fan Speeds <i>Stage</i>	4 + /	Auto	4 + 4	Auto		
Air Direction: Horizontal	Mar	nual	Mar	nual		
Vertical	Autor	natic	Autor	natic		
Air Filter	Wash	nable	Wash	able		
Connection Method	Fla	are	Fla	ire		
Combined Min. Lgth Ft (m)	9 (2		9 (2			
Combined Max. Lgth Ft (m)		rge: 49')	66 ( (pre-cha	rge: 49')		
Max. Vertical Diff. Ft (m)	49 (	. ,	49 (			
Conn. Pipe Diameter Inch						
Net Weight <i>lbs.</i> (kg)	16 (7)	64 (29)		69 (31)		
Dimensions: Height <i>Inch</i>	10-5/16	21-1/4	10-5/16	21-1/4		
Midth Insta	262	540	262	540		
Width Inch	32-9/32	26	32-9/32	26		
mm Donth Inch	870	660	870	660		
Depth Inch	8-1/8	11-11/32		11-11/32		
mm Pofrigorant	206	290	206	290		
Refrigerant	R41	L N	R41	UA N		
Note: Figures are based on 115 Volts.	Indoc U9RL:	Outdoo U9RL;	Indoc J12RL	Jutdoo J12RL:		

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

SYSTEMS 9RLS2, 12RLS2, 15RLS2



Federal Tax Credit Qualified See Page 9 for details

Systems 9RLS2 and 12RLS2 only.



9RLS2 12RLS2 15RLS2

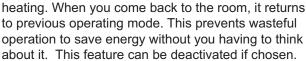
# ~\\\**\\\ESP**

## **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



## **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 for RLS2 and RLS2H Models

- Wireless Remote Control Economy Mode
- Apple Catechin Filter
- lon Deodorizing Filter
- Sleep Timer
- 24 Hour Timer
- Weekly Timer
- Dry Mode
- Auto Louver: Up/Down
- Auto Mode
- Powerful Operation Mode (3rd Party Device Control\*
- Minimum Heat (50°F/10°C)
- \* Available only with optional wired remote controller and optional interface kit.
- + Available only with optional interface kit. Operation monitoring and On/Off control only.

## **Optional Accessories**

- Wired Remote Controller: UTY-RVNUM Backlit and includes room temperature
- Wired Remote Controller: UTY-RNNUM
- Simple Remote Controller: UTY-RSNUM
- Communication Kit: UTY-TWBXF









**Energy Saving Program** 

Quiet Mode (Indoor)

Low Noise Mode

R Auto Restart/Reset

Auto Changeover

Cold Prevention

Low Ambient Cooling

Remote Temp. Sensor\*

	9RL	.52	12RLS2		15R	LS2	
	Heat F	ump	Heat F	Heat Pump		Pump	
				330		<b>S</b>	
	Serge S		Say	心	Sergy S		
	II arrest	MINE CO.	The same	ALLEY AT	The same	100.00	
	Per in	00	10.0	200	ESTE	-00	
Nominal Cooling BTU/h	9,0		12,0		14,5		
Min.~Max. Cooling BTU/h	3,100~		3,100~		3,100~		
Nominal Heating BTU/h	12,0		16,0		18,0		
Min.~Max. Heating BTU/h	3,100~2		3,100~2		3,100~		
HSPF BTU/hW	12		12		12		
SEER BTU/hW	27		25		21		
EER Clg/Htg	16.1/		13.8/		12.0/		
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 Pt./h(I/h)	2.75	(1.3)	3.8 (		4.44	(2.1)	
Voltage/Frequency/Phase	208-23	0/60/1	208-23	0/60/1	208-23	0/60/1	
Recommended Fuse Size (A)	20	0	20	0	2	0	
Air Circ. C.F.M. (m³/h): Hi	500 (		500 (	850)	530 (		
Medium	394 (	670)	394 (	670)	436 (	740)	
Low	324 (	550)	324 (		336 (	,	
Quiet	194 (		194 (		229 (	,	
Noise Level dB(A): Hi	43/	43	43/	43	45/	45	
Medium	37/		37/		40/		
Low	32/			32/32		33/34	
Quiet	21/			21/21		25/27	
utdoor Fan Speed RPM Clg/Htg	780/		870/		870/780		
Outdoor Noise Level dB(A)	48/49		49/50		51/51		
Current Rated (A): Cooling	2.7		4.0		5.5		
Heating		3.7		5.5		1	
Power Use Rated (kw): Cooling	.5		.8		1.21		
Heating	.8		1.2		1.35		
Fan Speeds Stage	4+Auto		4+Auto		4+Auto		
Air Direction: Horizontal	Manual		Manual		Manual		
Vertical	Au		Auto		Au		
Air Filter	Wash			Washable		able	
Apple Catechin Filter	Ye		Ye		Ye		
Connection Method	Fla		Fla		Fla		
Combined Min. Lgth Ft (m)	9 (2		9 (2		9 (2	,	
Combined Max. Lgth Ft (m)	66 ( (pre-chai	∠U) rge: 49')	66 (pre-char		66 ( pre-cha		
Max. Vertical Diff. Ft (m)	49 (		49 (		49 (		
Conn. Pipe Diameter Inch							
Net Weight Ibs. (kg)							
Dimensions: Height Inch	44 4/0	24-13/32	44 4/0	24-13/32	44 4/0	24-13/32	
mm	282/337*	620	282/337*	620	282/337*	620	
Width Inch			34-1/4			31-3/32	
mm	870	790	870	790	870	790	
Depth Inch	7-1/4	11-13/32	7-1/4	11-13/32	7-1/4	11-13/32	
mm	185	290	185	290	185	290	
Refrigerant	R41	0A	R41	0A	R41	0A	
Total Control	-S2	S2	S2	S2	. S2	S2	
ient	ndoor IRLS2	utdoor IRLS2	ndoor RLS2	utdoor RLS2	ndoor RLS2	utdoor RLS2	

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

SYSTEMS 9RLS2H, 12RLS2H, 15RLS2H



Federal Tax Credit Qualified See Page 9 for details

Systems 9RLS2H and 12RLS2H only.



9RLS2H

**Heat Pump** 

## Up to 27.2 SEER

15RLS2H

**Heat Pump** 

12RLS2H

**Heat Pump** 

# Energy Saving Program ESP senses when you leave a room

ESP senses when you leave a room 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 feature can be deactivated if chosen.

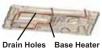
## **High Performance Heating**

Heating capacity at low outdoor temperatures was improved by adopting a large heat exchanger, a high capacity compressor, and a base heater for the outdoor unit. Rated heating capacity is maintained up to 20°F. RLS2H models can operate down to -15°F.

#### **Base Freeze Prevention**

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







Condition: Indoor temp. of 68°FDB / outdoor temp. of 5°FDB, Heating mode, High airflow volume. Operation for 24 hours.

## **Optional Accessories**

- Wired Remote Controller: UTY-RVNUM Backlit and includes room temperature!
- Wired Remote Controller: UTY-RNNUM
- Simple Remote Controller: UTY-RSNUM
- Communication Kit: UTY-TWBXF







	(5m)	2-17/2			Library (LAM) (Harry	nici	
Nominal Cooling BTU/h	9,0	00	12.0	12,000		500	
Min.~Max. Cooling BTU/h	3,100~		3,100~		3,100~		
Nominal Heating BTU/h	12,0		16,0		18,0		
Min.~Max. Heating BTU/h	3,100~		3,100~2		3,100~		
HSPF BTU/hW	8.		9.		10		
SEER BTU/hW	27		25		21		
EER Clg/Htg	16.1/		13.8/		12.0/		
Clg. Operating Range °F(°C)	14~115	(-10~46)			14~115 (		
Htg. Operating Range °F(°C)	-15~75 (	-26~24)	-15~75 (	-26~24)	-15~75 (	-26~24)	
Moisture Removal Pt./h(l/h)	2.75		3.8 (		4.44		
Voltage/Frequency/Phase	208-23	. ,	208-23		208-23	` '	
Recommended Fuse Size (A)	1		1:		20		
Air Circ. C.F.M. (m³/h): Hi	500 (	(850)	500 (	850)	530 (	900)	
Medium	394 (	' '	394 (		436 (		
Low	324 (	' '	324 (		336 (		
Quiet	194 (	(330)	194 (	330)	229 (	390)	
Noise Level dB(A): 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 RPM Clg/Htg	780/780		870/780		870/780		
Outdoor Noise Level dB(A)	48/49		49/50		51/51		
Current Rated (A): Cooling	2.7		4.0		5.5		
Heating	3.7		5.5		6.1		
Power Use Rated (kw): Cooling	.5	6	.87		1.21		
Heating	8.		1.20		1.3		
Fan Speeds Stage	4+4		4+Auto		4+Auto		
Air Direction: Horizontal	Mar		Manual		Manual		
Vertical	Au		Auto		Auto		
Air Filter	Wash		Washable		Washable		
Apple Catechin Filter	Ye		Yes		Yes		
Connection Method	Fla		Flare 9 (2.7)		Fla 9 (2		
Combined Min. Lgth Ft (m)	9 (2		66 (		66 (		
Combined Max. Lgth Ft (m)					(pre-cha		
Max. Vertical Diff. Ft (m)	49 (	(15)	49 (	15)	49 (	15)	
Conn. Pipe Diameter Inch	Suc. 3/8	Dis. 1/4	Suc. 3/8	Dis. 1/4	Suc. 1/2	Dis. 1/4	
Net Weight <i>lbs. (kg)</i>		88 (40)		88 (40)	21 (9.5)	88 (40)	
Dimensions: Height Inch	11-1/8 13-1/4*	24-1/2	11-1/8 13-1/4*	24-1/2	11-1/8 13-1/4*	24-1/2	
mm	282/337*		282/337*		282/337*	620	
Width Inch					34-1/4		
mm Depth Inch	870	790	870	790	870	790	
·	7-1/4	11-13/32	7-1/4	11-13/32		11-13/32	
mm Refrigerant	185	290	185	290	185	290	
Kemgerant	R41		R41	ъ т	R41		
	Indoor ASU9RLS2	Outdoor J9RLS2H	Indoor U12RLS2	Outdool 2RLS2H	Indoor U15RLS2	Outdoor AOU15RLS2H	
	SUS	O Ren	Ü	O 112F	Ξ	O 115F	
	×	AO	ASI	ΛΟ̈́	ASI	NO,	
Note: Figures are ba	sed on 2	30 Volts.	. *Heiaht	when fr	ont panel	is open.	

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

**Federal Tax Credit Qualified** 

Nominal Cooling BTU/h

9RLFW, 12RLFW, 18RLXFW, 24RLXFW

(COMPATIBLE ONLY WITH HFI WALL MOUNT UNIT)





## **Standard Features**



Apple Catechin Filter

lon Deoderizing Filter

Sleep Timer

24-Hour Timer

Weekly Timer\*

Dry Mode

Auto Louver: Up/Down+

★ Auto Louver: 4-way^

Auto Mode

Minimum Heat Mode

**Economy Mode** 

Quiet Mode

Power Diffuser<sup>^</sup> .....¥¥

R Auto Restart/Reset

🖎 Auto Changeover

Low Ambient Cooling

Long Piping Length<sup>^</sup>

Cold Prevention

Remote Temp. Sensor\*

Pump Down Operation<sup>^</sup>

3rd Party Device Control\*\*

\* Available only with optional wired remote controller.

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

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

## **Optional Accessories**

- Wired Remote Controller: UTY-RVNUM Backlit and includes room temperature
- Wired Remote Controller: UTY-RNNUM
- Simple Remote Controller: UTY-RSNUM
- Communication Kit: UTY-TWBXF

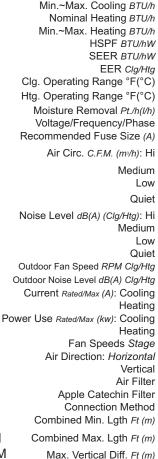
## **\*Adapter Fittings**

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

1/4FF x 3/8MF For 18RLF and 24RLF







Conn. Pipe Diameter Inch

Net Weight Ibs. (kg) Dimensions: Height Inch

> Width Inch mm

Depth Inch

mm

	Refrigerant
Most Efficient 2013 Systems 9RLFW, 12RLFW	

	Heat F	Pump	Heat F	Pump	Heat I	ump	Heat Pump		
		7		7		20			
	-there	MAN .	Libert	Maria Cara	Jihang	Mar.	Libery	n a	
	II AND THE		ill said		ill state	and the	ill state	100	
	9,0	00	12,0	000	18,0	000	22,000		
	1,700~	10,900	3,100~	13,300	7,000~	23,000	9,900~	27,300	
	12,0	000	16,0	000	21,6	500	27,6	800	
	1,700~		3,100~		7,000~		7,500~		
,	11.	.0	11.	.0	10	.0	10	.0	
,	23	.0	22	.0	19	.2	18	.0	
	13.8/1	3.47	12.5/	12.5	13.3/	12.0	12.5/	11.6	
	14~115 (	-10~46)	14~115 (	-10~46)	14~115 (	-10~46)	0~115 (-	18~46)	
	5~75 (-1	15~24)	5~75 (-1	15~24)	5~75 (-	15~24)	0~75 (-	18~24)	
	2.75	(1.3)	3.80 (	(1.8)	5.9 (	2.8)	6.3 (	3.0)	
	208-23		208-23		208-23		208-23		
	1	5	20	)	2	0	30		
	353 (	600)	388 (	660)	541 (	920)	659 (1,1 677 (1,1		
	306 (	520)	330 (	560)	435 (	740)	500 (		
	253 (		265 (		365 (		435 (		
	200 (				306 (52		365 (		
				200 (340)		10) Htg	49/		
	37/37 33/33			40/40 36/36		43/44 37/37		49 42	
			30/31		33/33		37/		
	29/29 30/31 25/25 25/25			28/		33/33			
	810/780		870/		620/		800/850		
,	48/48		49/-		47/		54/		
	3.2/6.0		4.4/		6.2/		7.9/		
	4.2/	7.5	5.9/9.0		8.0/14.5		10.5/15.5		
	0.65/	1.27	0.96/1.40		1.35/	3.01	1.76/	3.42	
	0.89/	1.60	1.28/1.99		1.80/3.23		2.38/3.53		
	4+A		4+Auto		4+Auto		4+Auto		
	Man		Manual		Automatic		Automatic		
	Auton		Automatic		Automatic		Automatic		
•	Wash Ye		Washable		Washable Yes		Washable		
•	Fla		Yes Flare		Flare		Yes Flare		
	9 (2		9 (2		16 (5) 164 (50)		16 164		
	(pre-char	ge: 49')	(pre-char	ge: 49')	(pre-cha	rge: 66')	(pre-cha	ge: 66')	
	49 (	15)	49 (	15)	98 (	30)	98 (	30)	
	Suc. 3/8	Dis. 1/4	Suc. 3/8	Dis. 1/4	Suc. 5/8#	Dis. 3/8#	Suc. 5/8#	Dis. 3/8#	
	18 (8)	71 (32)	18 (8)	71 (32)	31 (14)	135 (61)	31 (14)	135 (61)	
	11-1/16	21-1/4	11-1/16		12-5/8	32-3/4	12-5/8	32-3/4	
	280	540	280	540	320	830	320	830	
	31-1/16		31-1/16		39-1/4		39-1/4		
	790	660	790	790	998	900	998	900	
	8 203	11-7/16 290	8 203	11-7/16 290	9 228	<b>13</b> 330	9 228	<b>13</b> 330	
	R41		203 R41		220 R41	330	220 R41		
	Indoor ASU9RLF	Outdoor J9RLFW	Indoor 12RLF	Outdoo 2RLFM	Indoor 18RLF	Outdoor RLXFW	Indoor 24RLF	Outdoor	
	<u> </u>	Out 9RI	<u> </u>	Out 2RI	- 8 - 8	S (S	J24	S Z	
	AS	Outdoor AOU9RLFW	Indoor ASU12RLF	Outdoor AOU12RLFW	Indoor ASU18RLF	Outdooi OU18RLXFW	Indoor ASU24RLF	Outdoor AOU24RLXFW	
		Ā	~	AO	_	J O	_	Ó	

12RLFW 18RLXFW 24RLXFW







# Wall Mounted 30,000 BTU Systems

## SYSTEM 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**

- Wireless Remote Control
- Apple Catechin Filter
- lon Deoderizing Filter
- Sleep Timer
- 24-Hour Timer
- Weekly Timer\*
- Dry Mode
- Auto Louver: 4-way
- Auto Mode
- Minimum Heat Mode

- Economy Mode
- Quiet Mode (Indoor)
- Power Diffuser
- R Auto Restart/Reset
- Auto Changeover
- 0°F Ambient Cooling
- Long Piping Length
- © Cold Prevention
- Pump Down Operation
- 3rd Party Device Control\*\*

## **Optional Wired Remote**

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



UTY-RNBYU

## **Easy Maintenance**

Front panel is easily removed for cleaning.



## **Applications**

Fujitsu ductless heat pumps 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.







	30F	RLX		
	Heat	Pump		
Nominal Cooling BTU/h	30.	000		
Min.~Max. Cooling BTU/h		-32,400		
Nominal Heating BTU/h		000		
Min.~Max. Heating BTU/h		37,500		
HSPF BTU/hW		.5		
SEER BTU/hW	17	7.5		
EER Clg/Htg	10	0.0		
Clg. Operating Range °F(°C)	0~115 (	(-18~46)		
Htg. Operating Range °F(°C)		-18~24)		
Moisture Removal Pt./h(l/h)		(4.5)		
Voltage/Frequency/Phase		30/60/1		
Recommended Fuse Size (A)		30		
• •		120) Clg		
Air Circ. C.F.M. (m³/h): Hi	677 (1,	150) Htg		
Medium		(900)		
Low		(740)		
Quiet		(620)		
Noise Level dB(A): Hi		(Clg/Htg)		
Medium		(Clg/Htg)		
Low		(Clg/Htg)		
Quiet		(Clg/Htg)		
Outdoor Fan Speed RPM Clg/Htg		/850		
Outdoor Noise Level dB(A)		(Clg/Htg)		
Current Rated/Max (A): Cooling		/17.0		
Heating		/18.5		
Power Use Rated/Max (kw): Cooling		3.87		
Heating		/4.22		
Fan Speeds Stage	4 + Auto			
Air Direction: Horizontal	Automatic			
Vertical	Automatic Washable			
Air Filter				
ENERGY STAR® Qualified		lo are		
Compliance Min. Lath. 54 (m)				
Combined Min. Lgth Ft (m)		(5) (50)		
Combined Max. Lgth Ft (m)	(pre-cha	arge: 66')		
Max. Vertical Diff. Ft (m)		(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		10A		
	ъ×	ρ×		

Indo SU30RL Outdoo AOU30RL)

<sup>\*</sup> Available only with optional wired remote controller.

<sup>\*\*</sup>Operation monitoring and On/Off control only.

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

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

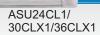


Up to 19.0 SEER









AOU18CL

AOU24CL1

AOU30CLX1 AOU36CLX1

### **Function**

Stylish, slim and elegant, these coolingonly 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**

Wireless Remote Control

Apple Catechin Filter

lon Deoderizing Filter

Sleep Timer

🖺 24-Hour Timer

<sup>♥</sup>

Weekly Timer\*

Weekly Time

Dry Mode

Auto Louver: Up/Down+

Auto Louver: 4 Way<sup>^</sup>

Auto Louver. 4 vva

Auto Mode

Quiet Mode

Power Diffuser^

- Tower Dinaser

R Auto Restart/Reset

Low Ambient Cooling

Long Piping Length#

Pump Down Operation#

3rd Party Device Control

\* Available only with optional wired remote controller.

+ Feature of 18CL only.

# Feature of 30CLX1 and 36CLX1 only.

## **Optional Wired Remote**

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





	1
	Coo
Nominal Cooling BTU/h	•
Min.~Max. Cooling BTU/h	5,50
SEER BTU/hW	
EER Clg	
Clg. Operating Range °F(°C)	(-
Moisture Removal Pt./h(I/h)	5
Voltage/Frequency/Phase	208
Recommended Fuse Size (A)	
Air Circ. C.F.M. (m³/h): Hi	41
Medium	34
Low	27
Quiet	21
Noise Level dB(A): Hi	
Medium	
Low	
Quiet	
Outdoor Fan Speed RPM Clg	
Outdoor Noise Level dB(A)	
Current Rated/Max (A): Cooling	7
Power Use Rated/Max (kw): Cooling	1
Fan Speeds Stage	4
Air Direction: Horizontal	N
Vertical	Αι
Air Filter	W
Connection Method	
Combined Min. Lgth Ft (m)	
Combined Max. Lgth Ft (m)	(pre-
Max. Vertical Diff. Ft (m)	4
Conn. Pipe Diameter Inch	Suc.
Net Weight Ibs. (kg)	20 (
Dimensions: Height Inch	10-13
mm	27
Width Inch	31-1
mm	79
Depth Inch	8-7/
mm	21
Refrigerant	

	180	CL	240	CL1	30C	LX1	36C	LX1
	Coolin	g Only	Coolin	g Only	Cooling Only		Cooling Only	
/h	18,0	000	24,0	000	30,8	300	33,000	
/h	5,500~	19,000	3,100~	25,000	9,900~	32,400	9,900~	34,100
W	19	.0	17	'.5	16	.5	15	5.5
lg	10	.4	10	.0	9.	5	8	.5
()	14~		14~		14~			·115
h)	(-10 <sup>-</sup> 5.9 (		(-10 <sup>-</sup>		(-10 <sup>-</sup> 9.7 (			~46) (4.8)
e	208-23	,	208-23	' '	208-23			30/60/1
4)	2		2	0	3	0	3	0
- Hi	412 (	700)	659 (1	1,120)	660 (1	,100)	695 (°	1,180)
n	342 (	· · · ·	530 (		530 (	,		(900)
w	271 (	460)	436 (	(740)	435	(740)	435	(740)
et	218 (	370)	365 (	(620)	365 (	620)	365	(620)
Ηi	4	4	4	8	4	9	5	0
n	3	8	4	2	4	2	4	2
W	3	2	3	7	3	7	3	7
et	2	5	33		33		33	
lg	860		1,100		2,119		2,119	
4)	50 56		5	4	5	4		
g	7.7/	7.7/9.0 10.5/11.5		14.2/	17.0	17.0/18.0		
ng	1.73/2.0 2.4/2.5		2.5	3.24/3.87		3.88/4.10		
е	4 + /	Auto	4 + /	Auto 4 + Auto		4 + Auto		
al	Mar	nual	Auto	matic	Automatic		Automatic	
al	Autor	matic	Automatic		Automatic		Automatic	
er	Wash	nable	Washable		Washable		Washable	
d	Fla	ire	Flare		Flare		Flare	
n)	9 (2	2.7)	9 (2		16 (5)		16 (5)	
n)	66 ( pre-cha)	20) rge: 49')	98 ( pre-cha)	(30) rge: 49')	164 (50) ')(pre-charge: 66')		164 (pre-cha	(50) irge: 66')
n)	49 (	15)	66 (	(20)	98 (	30)	98	(30)
ch	Suc. 1/2	Dis. 1/4	Suc. 5/8	Dis. 1/4	Suc. 5/8	Dis. 3/8	Suc. 5/8	Dis. 3/8
g)	20 (9)	88 (40)	31 (14)	88 (40)	31 (14)	135(61)	31 (14)	135(61)
ch	10-13/16	22-3/4	12-5/8	24-7/16	12-5/8	32-3/4	12-5/8	32-3/4
m	275	578	320	620	320	830	320	830
ch	31-1/8	31-1/8	39-1/4	31-1/8	39-1/4	35-3/8	39-1/4	35-3/8
m	790	790	998	790	998	900	998	900
ch	8-7/16	11-13/16	9	11-3/4	9	13	9	13
m	215	300	228	298	228	330	228	330
nt	R41		R4′	10A	R41		R4	10A
	Indoor ASU18CL	Outdoor AOU18CL	Indoor ASU24CL1	Outdoor AOU24CL1	Indoor ASU30CLX1	Outdoor AOU30CLX1	Indoor ASU36CLX1	Outdoor AOU36CLX1









<sup>^</sup> Feature of 24CL1, 30CLX1, 36CLX1 only. Operation monitoring and On/Off control only.

# **Ceiling and Universal Floor/Ceiling Mounted Systems**

SYSTEMS 18RULX, 24RULX, 36RSLX



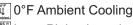


#### **Function**

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 0°F Ambient Cooling
- Sleep Timer
- 24 Hour Timer
- Weekly Timer\*
- Dry Mode
- Auto Louver: 4 Way
- Auto Mode
- Auto Restart/Reset
- Auto Changeover



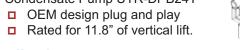
Long Piping Length

- Cold Prevention Energy Saver\*
- Remote Temp. Sensor\*
- Daisy Chain
- **Pump Down Operation**
- High Ceiling Mode Fresh Air Intake^

## **Optional Accessories**

- Wired Remote Control UTY-RNBYU\*
  - Weekly Timer
  - Full Function Wired Remote
  - Child Lock Capable
  - \*Requires dip switch change on indoor unit.





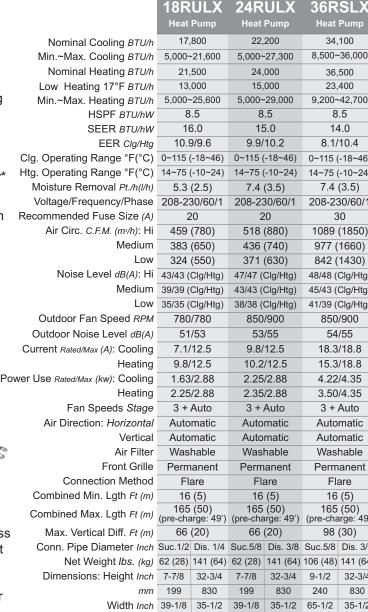


The universal mount 18RULX and 24RULX are ideal for a house of worship to mount beneath stained glass windows. Lower in height than the pews, they do not disturb the aesthetics of the space. With long piping lengths of 165' the outdoor units can also be placed remotely out of sight. Another popular application 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.









Depth Inc.

Refrigerar

		DUM		DURA	JUNE DUMAN		
		Pump		Pump	Heat Pump		
'h		,800		200		100	
'h	5,000~	-21,600	5,000~	-27,300	8,500~36,000		
'h		500		000		500	
'h		,000		000		400	
'h		-25,600		-29,000		42,700	
N		.5		.5		.5	
N		3.0		5.0		1.0	
g		9/9.6		10.2		10.4	
;)		(-18~46)		(-18~46)		(-18~46)	
;)		(-10~24)		(-10~24)		(-10~24)	
'n)		(2.5)		(3.5)		(3.5)	
e		30/60/1		30/60/1		30/60/1	
۱)		(700)		20		(4050)	
li m		(780)		(880)		(1850)	
n		(650)		(740)	,	1660)	
W Hi		(550) Clg/Htg)		(630)		1430) Clg/Htg)	
'n		Clg/Htg)		Clg/Htg) Clg/Htg)			
W		Clg/Htg)	,	Clg/Htg)	45/43 (Clg/Htg) 41/39 (Clg/Htg)		
M		/780	,	/900	850/900		
4)		/53		/55		/55	
		12.5		12.5		/18.8	
g		12.5		/12.5		/18.8	
g g		/2.88		/2.88	4.22/4.35		
g g		/2.88		/2.88	3.50/4.35		
e		Auto		Auto	3 + Auto		
əl		matic		matic	Automatic		
al		matic		matic	Automatic		
er		hable		hable	Washable		
е	Perm	anent	Perm	anent	Perm	anent	
d		are		are	Flare		
1)	16	(5)	16	(5)	16 (5)		
1)	165	(50)	165	(50)	165 (50)		
		arge: 49')	(pre-cha	arge: 49')		arge: 49')	
1)		(20)		. ,		(30) Dis. 3/8	
:h		Dis. 1/4 141 (64)		Dis. 3/8			
g) :h	7-7/8	32-3/4	7-7/8	32-3/4	9-1/2	32-3/4	
m	199	830	199	830	240	830	
h	39-1/8	35-1/2	39-1/8	35-1/2	65-1/2	35-1/2	
m	990	900	990	900	1660	900	
	25-7/8	13	25-7/8	13	27-5/8	13	
:h m	655	330	655	330	700	330	
nt		10A		10A		10A	
					ъ×		
	Indoor ABU18RULX	Outdoor AOU18RLX	Indoor RULX	Outdoor AOU24RLX	Indo U36RSL	Outdoor AOU36RLX	
	_ U18	ΩŽ	J24	0 202	J U36	o SSC	
	ABI	¥	ABI	AB	¥		
		N1-4-	:			\ \ / - I	

<sup>\*</sup>Available only with optional wired remote controller.

<sup>^</sup>Fresh air knockout available. Fresh air fan and ductwork field supplied. See Design and Technical Manual for details

# Compact Duct Single Zone 9, 12 and 18,000 BTU Systems

## SYSTEMS 9RLFCD, 12RLFCD, 18RLFCD



Federal Tax Credit Qualified See Page 9 for details

Systems 9RLFCD and 12RLFCD only.





#### **Function**

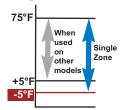


Most Efficient Compact ducts provide comfort cooling or heating for small room applications. Features include high efficiency

up to 21.5 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.

## **High Performance Heating**

Heating capacity at low outdoor temperatures is achieved by adopting a large heat exchanger and a high capacity compressor. Systems operate down to -5°F.



## **Applications**

Long maximum combined piping length of 66' and 49' in height allow for versatile installations. Flexible installation, either horizontal or vertical, and low height enables compact soffit or cabinet installation. These features make compact duct systems ideal for commercial applications such as offices, restaurants, convenience stores, motels, dorms, in retrofit and new construction.







**Dwellings** 

## **Standard Features**

Wired Remote Control

Weekly Timer

Dry Mode

Auto Mode

**Economy Mode** 

Minimum Heat\*Auto

R Auto Restart/Reset

Low Ambient Cooling



Daisy Chain

Built-In Condensate Pump

3rd Party Device Control

## **Optional Accessories**



Wireless Remote and Receiver Unit UTY-LRHUM



UTY-RVNUM

## **Field Supplied Filters Used With Compact Duct Units**

Although Compact 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 insure 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.

	ARU	ARU	ARU				
	9RLF	12RLF	18RLF				
CFM	353	353	547				
Typical Filter Size	12 x 20	12 x 20	14 x 25				
Velocity, FPM	212	212	225				
Unit External SP, in. W.C.	0.36	0.36	0.36				
	1" Fiberglass Filter						
SP Loss, in. W.C.	0.04	0.04	0.04				
Available Static Pressure	0.32	0.32	0.32				
	1" MER	V 8 Pleate	ed Filter				
SP Loss, in. W.C.	0.12	0.12	0.14				
Available Static Pressure	0.24	0.24	0.22				
	2" MER	V 8 Pleate	d Filter				
SP Loss, in. W.C.	0.07	0.07	0.08				
Available Static Pressure	0.29	0.29	0.28				

Auto Changeover

<sup>\*</sup>Available only with optional wireless remote controller.

<sup>^</sup>Operation monitoring and On/Off control only.

## **Compact Duct**

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

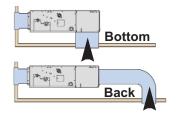
#### **Traditional**



#### **Compact Duct**



## **Return Air-intake Choices**



## **Flexible Installation**

Horizontal or vertical.



\*Internal drain pump will not operate when the unit is mounted in a vertical configuration.











	9RLFCD Heat Pump	12RLFCD Heat Pump	18RLFCD Heat Pump
Naminal Casling BTU	0.000	40.000	40.000
Nominal Cooling BTU/h	9,000	12,000	18,000
Min~Max Cooling BTU/h	3,100~12,000	3,100~13,600	3,100~20,100
Nominal Heating BTU/h	12,000	16,000	21,600
Min~Max Heating BTU/h	3,100~18,000	3,100~19,400	3,100~25,600
HSPF	12.2	11.5	11.3
SEER	21.5	20.0	19.7
EER Clg/Htg	14.5/14.1	12.8/12.3	12.0/12.9
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)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	15	15	20
Static Pressure In. W. C.	0 ~ 0.36	0 ~ 0.36	0 ~ 0.36
Air Circ. C.F.M. (m³/h) Clg/Htg: Hi	353 (600)	383 (650)	554 (940)
Medium	324 (550)	353 (600)	518 (880)
Low	294 (500)	324 (550)	483 (820)
Quiet	265 (450)	283 (480)	442 (750)
Noise Level dB(A) (Clg/Htg): Hi	28/28	29/29	32/32
Medium	27/26	28/28	30/30
Low	26/25	27/27	29/29
Quiet	25/24	26/24	27/27
Outdoor Fan Speed RPM Clg/Htg	590/720	870/780	870/1,000
Outdoor Noise Level Clg/Htg	48/49	49/50	54/55
Running Current Rated (A)Clg/Htg	3.0/3.9	4.4/6.0	6.6/7.3
Power Use Rated/Max (kW): Cooling	0.62/1.40	0.94/1.45	1.50/2.15
Heating	0.85/1.80	1.30/2.00	1.67/2.60
Fan Speeds Stage	4 + Auto	4 + Auto	4 + Auto
Air Filter	Washable	Washable	Washable
Connection Method	Flare	Flare	Flare
Combined Min. Length Ft (m)	9 (2.7)	9 (2.7)	9 (2.7)
Combined Max. Length Ft (m)	66 (20)	66 (20)	66 (20)
	(pre-charge: 49')	(pre-charge: 49')	(pre-charge: 49')
Max. Vertical Diff. Ft (m)	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
Indoor Unit Net Weight Ibs. (kg)	41 (19)	41 (19)	50 (23)
Outdoor Unit Net Weight Ibs. (kg)	84 (38)	84 (38)	86 (39)
Indoor Unit Dimensions: Height Inch (mm)	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)
Depth Inch (mm)	24-13/32 (620)	24-13/32 (620)	24-13/32 (620)
Supply Duct Flange Dimensions: Height <i>Inch (mm)</i>	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)
Width Inch (mm)	25-19/32 (650)	25-19/32 (650)	33-15/32 (850)
Depth Inch (mm)	3/4 (19)	3/4 (19)	3/4 (19)
Return Duct Flange Dimensions: Height <i>Inch (mm)</i>	6-27/32 (174)	6-27/32 (174)	6-27/32 (174)
Width Inch (mm)	22-19/32 (574)	22-19/32 (574)	30-15/32 (774)
Depth Inch (mm)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)
Outdoor Unit Dimensions: Height Inch (mm)	24-1/2 (620)	24-1/2 (620)	24-1/2 (620)
Width Inch (mm)	31-3/32 (790)	31-3/32 (790)	31-3/32 (790)
	11-11/32 (290)	11-11/32 (290)	11-11/32 (290)
Depth Inch (mm)	R410A	R410A	R410A
Refrigerant Most Efficient	IN <del>T</del> IUM	N <del>4</del> 10M	114104

# Compact Cassette Single Zone 9, 12 and 18,000 BTU

SYSTEMS 9RLFCC, 12RLFCC, 18RLFCC



Federal Tax Credit Qualified See Page 9 for details

Systems 9RLFCC and 12RLFCC only.



#### **Function**



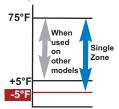
Most Efficient Compact cassettes provide comfort cooling or heating for small room applications.

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.

## **High Performance Heating**

Heating capacity at low outdoor temperatures is achieved by adopting a large heat exchanger and a high capacity compressor. Systems operate down to -5°F.



## Standard Features

Wired Remote Control

Weekly Timer

Dry Mode

Auto Louver: Up/ Down

Auto Mode

Minimum Heat\*

**Economy Mode** 

R Auto Restart/Reset

Auto Changeover

Low Ambient Cooling

Cold Prevention

Daisy Chain

High Ceiling Mode

Condensate Pump

Fresh Air Intake\*\*

3rd Party Device Control

Fresh Air Kit\*\* UTZ-VXAA Mixes room air then passes through the heat exchanger.

## **Optional Accessories**

- **Backlit Wired Remote Control** UTY-RVNUM Displays room temp.
- Wireless remote UTY-LNHUM



**UTY-RVNUM** 

## **Applications**

Long maximum combined piping length of 66' and 49' in height allow for versatile installations. 4-way airflow, concealed flush mount design and the ability to operate in limited space above the drop ceiling, makes these systems ideal for commercial applications such as offices, restaurants, convenience stores, motels, dorms, in retrofit and new construction.







Multi-Tenant **Dwellings** 

Hotels / Motels

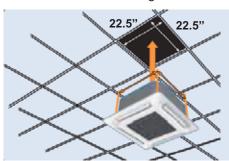
Dorms



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

## **Easy Installation**

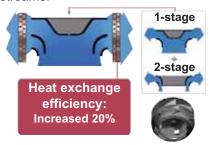
Fits into a standard ceiling tile\*.



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

## 2-Stage Turbo Fan

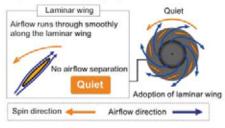
Air distribution is evenly spread across the heat exchanger by the 2 stage turbo fan which produces two separate airflow streams.



## **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



	9RLFCC	12RLFCC	18RLFCC Heat Pump
	Heat Pump	Heat Pump	Heat Pump
	and a	-mil	
Nominal Cooling BTU/h	9,000	12,000	18,000
Min~Max Cooling BTU/h	3,100~12,000	3,100~13,600	3,100~20,100
Nominal Heating BTU/h	12,000	16,000	21,600
Min~Max Heating BTU/h	3,100~18,000	3,100~19,400	3,100~25,600
HSPF	13.0	12.2	11.5
SEER	24.0	21.9	20.1
EER Clg/Htg	14.5/13.5	12.8/11.1	11.2/12.3
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)
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Fuse Size (A)	15	15	20
. ,	318 (540)	359 (610)	400 (680) Clg
Air Circ. C.F.M. (m³/h): Hi	Clg or Htg	Clg or Htg	471 (800) Htg
Medium	288 (490)	312 (530)	341 (580) Clg
	Clg or Htg 259 (440)	Clg or Htg 277 (470)	400 (680) Htg 288 (490) Clg
Low	Clg or Htg	Clg or Htg	341 (580) Htg
Quiet	230 (390)	241 (410)	241 (410) Clg
	Clg or Htg	Clg or Htg	265 (450) Htg
Noise Level dB(A) Clg/Htg: Hi	33/34	37/37	40/44
Medium	32/32	33/33	36/40
Low	29/29	31/31	32/36
Quiet	28/27	28/28	28/30
Outdoor Fan Speed RPM Clg/Htg	590/720	870/780	1,050/1,000
Outdoor Noise Level Clg/Htg	48/49	49/50	54/55
Running Current Rated (A): Cooling	3.0	4.4	7.1
Heating	4.1	6.7	7.7
Power Use Rated/Max (kW): Clg	0.62/1.40	0.94/1.45	1.61/2.15
Heating	0.89/1.80	1.44/2.00	1.76/2.60
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
Combined Min. Length Ft (m)	9 (2.7)	9 (2.7)	9 (2.7)
Combined Max. 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)
Indoor Unit Net Weight Ibs. (kg)	33 (15)	33 (15)	33 (15)
Outdoor Unit Net Weight Ibs. (kg)	84 (38)	84 (38)	86 (39)
Indoor Unit 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)
Outdoor Unit Dim: Height Inch (mm)	24-1/2 (620)	24-1/2 (620)	24-1/2 (620)
Width Inch (mm)	31-3/32 (790)	31-3/32 (790)	31-3/32 (790)
Depth Inch (mm)	11-11/32 (290)	11-11/32 (290)	11-11/32 (290)
Refrigerant	R410A	R410A	R410A
Most Efficient		e Grille UTG-CCGF	









Note: Figures are based on 230 Volts.

Must order one with each compact cassette.

# **Ceiling Cassette Systems**

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





Up to 16.0 SEER

#### **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**

Weekly Timer

Dry Mode

Auto Louver: Up/ Down

Auto Mode

Energy Saver

**R** Auto Restart/Reset

Auto Changeover

0°F Ambient Cooling

Long Piping Length

**Cold Prevention** 

Slender Fit

Remote Temp. Sensor

Daisy Chain

**Pump Down Operation** 

High Ceiling Mode

**Branch Duct Capable** 

Built-in Condensate Pump

Fresh Air Intake\*

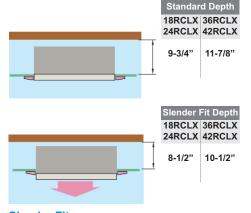
# **Applications**

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





## **Slender Fit**

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

<sup>\*</sup>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

- 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.
- Allows fresh air to be brought into the indoor unit using fresh air knockout.

	18R	CLX	24R	CLX	36R	CLX	42R	CLX
	Heat	Pump	Heat	Pump		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	3.5	8	.5	8	.5	8	3.5
SEER BTU/hW	1	6.0	15	5.0	14	1.0	1:	5.0
EER Clg/Htg		/ 10.2		/ 10.2		9.7		10.5
Clg. Operating Range °F(°C)				(-18~46)		-18~46)		(-18~46)
Htg. Operating Range °F(°C)		(-10~24)		(-10~24)		-10~24)		-18~24)
Moisture Removal Pt./h(l/h)		(2.5)		(3.0)		(4.0)		(5.5)
Voltage/Frequency/Phase		30/60/1		30/60/1	208-23			30/60/1
Recommended Fuse Size (A)		20		20		0		30
Air Circ. C.F.M. (m³/h): Hi		(950)	,	1,050)	•	1,600)		(1,700)
Medium .	477	(810)	536	(910)	824 (*	1,400)	854 (	1,450)
Low		(670)	436	(740)	677 (*	1,150)	736 (	1,250)
Noise Level dB(A): Hi	42/40 (	Clg/Htg)	45/43 (	Clg/Htg)	48/48 (0	Clg/Htg)	50/50 (	Clg/Htg)
Medium	39/38 (	Clg/Htg)	43/39 (	Clg/Htg)	45/45 (0	Clg/Htg)	48/48 (	Clg/Htg)
Low	36/36 (	Clg/Htg)	38/35 (Clg/Htg) 4		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	3/21.7
Power Use Rated/Max (kw): Clg	1.61	/2.88	2.10/2.88		4.22/4.35		4.66	6/4.99
Heating	2.05	5/2.88	2.37/2.88		3.70	/4.35	4.31	/4.99
Fan Speeds Stage	3 +	Auto	3 + Auto		3 + Auto			Auto
Air Direction: Horizontal		-	-		-		-	
Vertical	Auto	matic	Automatic		Automatic		Automatic	
Air Filter	Was	hable	Washable		Washable		Washable	
Front Grille	Remo	ovable	Removable		Removable		Removable	
Connection Method	FI	are	Flare		Flare		FI	are
Combined Min. Lgth Ft (m)	16	(5)	16	(5)	16	(5)	16	(5)
Combined Max. Lgth Ft (m)	165 (5	(0) Each arge: 49')	165 (5	0) Each	165 (5	0) Each		60) Each arge: 66)
Max. Vertical Diff. Ft (m)		(20)		(20)		(30)		(30)
Conn. Pipe Diameter Inch			Suc. 5/8	Dis. 3/8	Suc. 5/8	Dis. 3/8	Suc. 5/8	Dis. 3/8
Net Weight Ibs. (kg)				141 (64)		141 (64)		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		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		13	32-3/4	13	32-3/4	13	32-3/4	13
mm	830	330	830	330	830	330	830	330
Refrigerant		10A		10A		10A		10A
rongoran								
	Indoor 118RCLX	Outdoor U18RLX	Indoor 124RCLX	Outdoor U24RLX	Indoor 136RCLX	Outdoor U36RLX	Indoor I42RCLX	Outdoor U42RLX







# MULTI ZONE MINI-SPLIT SYSTEMS

Revolutionary Halcyon
HTT systems are changing
the way we define comfort

- Operate as few as one indoor unit or all indoor units
- Choose from 3 indoor unit styles wall mount, compact duct or cassette, including Designer Series RLS2 wall mount units
- Four combinations are ENERGY STAR®
   Qualified
- Create over 9,700 combinations based on indoor type and BTU



- Connect 2 to 4 indoor units, depending on model
- Connect 14,000 to 39,000 BTU
- No branch boxes or separation tubes required



- Connect 2 to 8 indoor units
- 80 to 130% connectable capacity
- Connect 39,000 to 62,000 BTU
- Branch boxes and separation tubes required



## 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 <u>can</u> exceed outdoor unit capacity (See sizing guide on page 43 for details). <u>However</u>, 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 <u>limit</u> 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.

### 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



## AOU48RLXFZ1

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 AOU48RLXFZ1. Connectable capacity allows you to connect indoor units that <u>can</u> exceed outdoor unit capacity (See sizing guide on page 44 for details). <u>However</u>, 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 <u>limit</u> 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.

## 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.









# Mix and Match Flexibility













## **Wall Mounts**

The ability
to create the
right combinations,
the right quantity
(up to 8-zones),
the right style indoor
units, and the right
capacity.

It's the RIGHT choice for your home or business.



## **Compact Ducts**





## **Separation Tubes, Branch Boxes**



## **Compact Cassettes**









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



ASU7RLF, ASU9RLF, ASU9RLS2, ASU12RLF, ASU12RLS2, ASU15RLS2, ASU18RLF. ASU24RLF









**ASU7, 9, 12RLF** 

**ASU18, 24RLF** 

ASU9, 12, 15RLS2<sup>^</sup>

						Designer Series		
	ASU7RLF	ASU9RI F	ASU12RLF	ASII18RI F	ASII24RI F	ASHIARI S2	ASU12RLS2	ASII15RI S2
	Heat Pump	Heat Pump^	Heat Pump^	Heat Pump^				
		riout i ump	riout i ump	riout i unip	riout i ump	riouer ump	riout i ump	rrout r ump
Nominal Cooling BTU/h*	7,000	9,000	12,000	18,000	24,000	9,000	12,000	14,000
Nominal Heating BTU/h*	8,100	10,200	13,500	20,000	27,000	10,200	13,500	16,300
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	208-230/60/1	208-230/60/1
Air Circ. C.F.M. (m³/h): Hi	Clg 330 (560) Htg 330 (560)	Clg 353 (600) Htg 353 (600)	Clg 388 (660) Htg 388 (660)	Clg 542 (920) Htg 542 (920)	Clg 659 (1,120) Htg 647 (1,100)	Clg 353 (600) Htg 353 (600)	Clg 388 (660) Htg 388 (660)	Clg 418 (710) Htg 418 (710)
Medium	Clg 294 (500) Htg 294 (500)	Clg 306 (520) Htg 306 (520)	Clg 330 (560) Htg 330 (560)	Clg 436 (740) Htg 436 (740)	Clg 530 (900) Htg 530 (900)	Clg 324 (550) Htg 324 (550)	Clg 353 (600) Htg 353 (600)	Clg 377 (640) Htg 377 (640)
Low	Clg 253 (430) Htg 253 (430)	Clg 253 (430) Htg 253 (430)	Clg 265 (450) Htg 277 (470)	Clg 365 (620) Htg 365 (620)	Clg 436 (740) Htg 436 (740)	Clg 277 (470) Htg 277 (470)	Clg 312 (530) Htg 312 (530)	Clg 336 (570) Htg 347 (590)
Quiet	Clg 200 (340) Htg 206 (350)	Clg 200 (340) Htg 206 (350)	Clg 200 (340) Htg 206 (350)	Clg 324 (550) Htg 324 (550)	Clg 365 (620) Htg 365 (620)	Clg 194 (330) Htg 194 (330)	Clg 194 (330) Htg 194 (330)	Clg 230 (390) Htg 253 (430)
Noise Level dB(A) (Clg/Htg): Hi	36/36	37/37	40/40	43/44	49/48	36/36	37/37	41/41
Medium	32/32	33/33	36/36	37/37	42/42	32/32	34/34	36/36
Low	29/29	29/29	30/31	33/33	37/37	28/28	31/31	33/34
Quiet	25/25	25/25	25/25	31/31	33/33	21/21	21/21	25/27
Running Current Rated (A): Cooling	0.13	0.15	0.19	0.32	0.53	0.14	0.17	0.20
Heating	0.13	0.15	0.19	0.32	0.53	0.14	0.17	0.20
Power Use Rated (w): Clg	15	17	22	41	69	16	19	23
Htg	15	17	22	41	69	16	19	23
Fan Speeds Stage	4+auto	4+auto	4+auto	4+auto	4+auto	4+auto	4+auto	4+auto
Air Direction: Horizontal	Manual	Manual	Manual	Auto	Auto	Manual	Manual	Manual
Vertical	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Primary Air Filter	Washable	Washable	Washable	Washable	Washable	Washable	Washable	Washable
Ion Deodorizing Filter	Disposable	Disposable	Disposable	Disposable	Disposable	Disposable	Disposable	Disposable
Apple-Catechin Filter	Disposable	Disposable	Disposable	Disposable	Disposable	Disposable	Disposable	Disposable
Connection Method	Flare	Flare	Flare	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	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4
Net Weight Ibs. (kg)	18 (8)	18 (8)	18 (8)	31 (14)	31 (14)	21 (9.5)	21 (9.5)	21 (9.5)
Dims: Height Inch (mm)	11-1/16 (280)	11-1/16 (280)	11-1/16 (280)	12-5/8 (320)	12-5/8 (320)	11-1/8 (282) 13-1/4* (337*)	11-1/8 (282) 13-1/4* (337*)	11-1/8 (282) 13-1/4* (337*)
Width Inch (mm)	31-1/16 (790)	31-1/16 (790)	31-1/16 (790)	39-1/4 (998)	39-1/4 (998)	34-1/4 (870)	34-1/4 (870)	34-1/4 (870)
Depth Inch (mm)	8 (203)	8 (203)	8 (203)	9 (228)	9 (228)	7-1/4 (185)	7-1/4 (185)	7-1/4 (185)
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	^Not compatible with	outdoor unit AOU48	BRLXFZ. *Height w	hen front panel is op	en.			

<sup>^</sup>Not compatible with outdoor unit AOU48RLXFZ.

## **Standard Features**

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

#### **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-fineparticle ceramic.

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





#### Apple-Catechin Filter

Dust, mold spores and microorganisms are absorbed onto the filter by static electricity and growth is inhibited and deactivated. Filter last 3-12 months.







<sup>\*</sup> Features vary by model and therefore standard wireless remote controls should be used with the models they are associated with.

<sup>\*\*</sup>Feature of models ASU18, 24RLF only.

# **Compact Duct 9, 12, 18 and 24,000 BTUs**



## ARU9RLF, ARU12RLF, ARU18RLF, ARU24RLF









ARU9, 12RLF

ARU18RLF

ARU24RLF

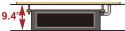
## **Compact Duct**

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

#### Traditional



### **Compact 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\*.



\*Internal drain pump will not operate when the unit is mounted in a vertical configuration.



	ARU9RLF	ARU12RLF	ARU18RLF	ARU24RLF
	Heat Pump	Heat Pump	Heat Pump	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. (m³/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 Ibs. (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 Dimensions: Height <i>Inch (mm)</i>	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)
Width Inch (mm)	25-19/32 (650)	25-19/32 (650)	33-15/32 (850)	41-11/32 (1,050)
Depth Inch (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
Return Duct Flange Dimensions: Height <i>Inch (mm)</i>	6-27/32 (174)	6-27/32 (174)	6-27/32 (174)	6-27/32 (174)
Width Inch (mm)	22-19/32 (574)	22-19/32 (574)	30-15/32 (774)	38-11/32 (974)
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.

Iters	ARU	ARU	ARU	ARU			
11010	9RLF	12RLF	18RLF	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			
	1" Fiberglass Filter						
SP Loss, in. W.C.	0.04	0.04	0.04	0.04			
Available Static Pressure	0.32	0.32	0.32	0.16			
	1" MERV 8 Pleated Filter						
SP Loss, in. W.C.	0.12	0.12	0.14	0.13			
Available Static Pressure	0.24	0.24	0.22	0.07			
	2" MERV 8 Pleated Filter						
SP Loss, in. W.C.	0.07	0.07	0.08	0.07			
Available Static Pressure	0.29	0.29	0.28	0.13			

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





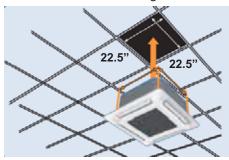
## AUU9RLF, AUU12RLF, AUU18RLF





## **Easy Installation**

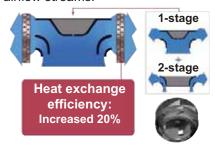
Fits into a standard ceiling tile\*.



\*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 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\*\*



	AUU9RLF	AUU12RLF	AUU18RLF
	Heat Pump	Heat Pump	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/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 Ibs. (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

+ Available only with optional wireless remote control.

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

Mixes room air then passes through the heat exchanger.









<sup>\*\*</sup>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.

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

## 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.



# Nominal Capacities, SEER and HSPF Ratings

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

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 *Ibs.* (kg)
Dimensions: Height *Inch*mm

Width *Inch*mm

Depth *Inch* 

AOU	AOU	AOU	AOU					
18RLXFZ	24RLXFZ	36RLXFZ	36RLXFZ					
Heat Pump	Heat Pump	Heat Pump	18+18 Combo <sup>1</sup>					
ASU9+ASU9	ASU9+ASU7+ASU7	ASU9 x 4	ASU18+ASU18					
2	2 to 3	3 to 4	2,					
14 to 21,000 <sup>2</sup>	14 to 27,000 <sup>2</sup>	27 to 39,000 <sup>2</sup>	36,000 <sup>,</sup>					
18,000/22,000	22,000/24,000	35,200/36,400	31,600/35,800					
14 to 115	14 to 115	32 to 115	50 to 115					
(-10 to 46)	(-10 to 46)	(0 to 46)	(10 to 46)					
5 to 75	5 to 75	14 to 75	14 to 75					
(-15 to 24)	(-15 to 24)	(-10 to 24)	(-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					
Lig. 1/4 x 2	Liq. 1/4 x 3	Liq. 1/4 x 4	Liq. 3/8 x 2					
Suc. 3/8 x 2	Suc. 1/2 x 1,	Suc. 1/2 x 1,	Suc. 1/2 x 2					
3uc. 3/0 x 2	3/8 x 2	3/8 x 3	Suc. 1/2 x 2					
119 (54)	124 (56)	149 (68)	149 (68)					
27-9/16	27-9/16	32-11/16	32-11/16					
700	700	830	830					
35-7/16	35-7/16	35-7/16	35-7/16					
900	900	900	900					
13	13	13	13					
330	330	330	330					
R410A	R410A	R410A	R410A					
only 2 indoor unit (ASIT ARIT or ATIT) combination and requires K9F71818								

118+18 is the only 2 indoor unit (ASU, ARU or AUU) combination and requires K9FZ1818. 2See table on page 19 for allowed combinations within this connectable capacity range.

Model	Indoor Unit		Cooling Capacity Btu/h	EER	SEER	Heating Capacity Btu/h		СОР	HSPF
	Type	Combination	95°F			47°F	17°F	47°F	
	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
AOU18RLXFZ	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

Refrigerant

Yellow rows represent models that are ENERGY STAR® Qualified.

## Flex Zone Outdoor Unit 48,000 BTUs

### **AOU48RLXFZ1**







- 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%)

### **Compact Size**

The compact size of outdoor unit AOU48RLXFZ1 allows for many installation opportunities.









### **Self Diagnostic Feature**

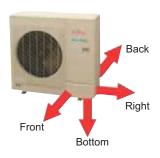
This printed circuit board provides three modes of diagnostics setting, monitoring and function mode, as well as error codes. It also provides a precommissioning check function. Setting mode allows optional



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.



### AOU48RLXFZ1 **Heat Pump**

2 to 8

1 to 3

48,000

51,100

54,000

40,000

57,000

890/910

58

377 (115)

49 (15)

98 (30)

49 (15)

98 (30)

Flare

3/8 (Liq.) 5/8 (Suc.)

Connectable Indoor Unit Number 80 to 130% Nominal Connectable Indoor Unit Capacity (39,000 - 62,000 BTU) Connectable Branch Box Number Nominal Cooling BTU/h Max Cooling BTU/h Nominal Heating BTU/h Low Temp. Heating 17°F BTU/h Max Heating BTU/h 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 5.02 / 4.89 / 4.96 Input Power: Heating Rated kW\* 208-230/60/1 Voltage/Frequency/Phase 24.5 / 23.0 / 23.7 Current: Clg Outdoor Max. (A) 22.3 / 21.7 / 22.0 Current: Htg Outdoor Max. (A) Recommended Fuse Size (A) Outdoor Fan Speed RPM (Clg/Htg) Propeller x 1 Fan: Type x Quantity Fan Motor Output W Sound Pressure Level Cooling dB(A) Sound Pressure Level Heating dB(A) Max. Pipe Length Total Ft (m) Max. Pipe Length Between Box & Farthest Indoor Unit Ft (m) Max. Pipe Height Difference Between Outdoor Unit & Branch Box Ft (m) Max. Pipe Height Difference Between Indoor Units Ft (m) Max. Pipe Height Difference Between Outdoor Unit & Farthest Indoor Ft (m) Connection Method

Conn. Pipe Diameter Inch

216 (98) Net Weight Ibs. (kg) 36 Dimensions: Height Inch 914 38-1/4 Width Inch 970 mm

14-5/8 Depth Inch 370 mm R410A Refrigerant

\*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

## **Branch Boxes**

### UTP-PU03A, UTP-PU03B





	UTP-PU03A	UTP-PU03B
	Primary	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 Rated (A): Cooling	0.050	0.050
Heating	0.050	0.050
Power Use Rated (W): Cooling	10	10
Heating	10	10
*As long as the total system nominal capaci	city is between 39,00	0 and 62,000 BTUs.

Dimensions: Gross (Flare to Flare):
Height x Width x Depth Inch
Height x Width x Depth mm
Dimensions: Net (Metal Box Only):
Height x Width x Depth Inch
Height x Width x Depth mm
Net Weight Ibs. (kg)
Conn. Pipe Diameter - Main Inch
Conn. Pipe Diameter - Branch Inch

Connection Adapter Included Inch

	UTP-PU03A	UTP-PU03B
	Primary	Secondary
):		
ch	7-5/8 x 33 x 14-5/8	7-5/8 x 33 x 14-5/8
m	195 x 838 x 370	195 x 838 x 370
/):		
ch	7-5/8 x 17 x 14-5/8	7-5/8 x 17 x 14-5/8
m	195 x 433 x 370	195 x 433 x 370
g)	20 (9)	20 (9)
ch	(3/8 Liq. x 5/8 Suc.)	(3/8 Liq. x 5/8 Suc.)
ch	(1/4 Liq. x 1/2 Suc.) 3 pair	(1/4 Liq. x 1/2 Suc.) 3 pair
d	Flare	Flare
ch	(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

Warning: Branch boxes are not weather tight enclosures and cannot be mounted outdoors or in damp environments exceeding 80% relative humidity, unless using the Branch Box Outdoor Enclosure, Part #UTP-PX-A. See Page 39 for more information.

### **Allowed Branch Box Mounting Direction**

### **Threaded Rod Mount**



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

#### **Horizontal Wall Mount**



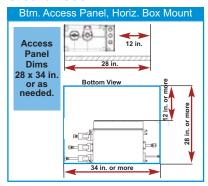
By reversing the electrical box position you <u>can</u> orient the inlet and outlet pipes into a left hand or right hand configuration.

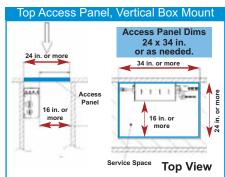
#### **Vertical Wall Mount**

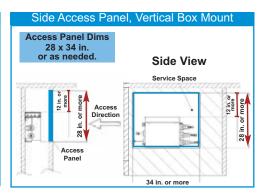


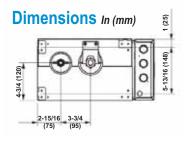
You <u>cannot</u> reverse the electrical box position when mounting the branch box vertically.

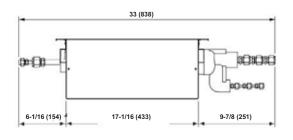
### **Clearances**

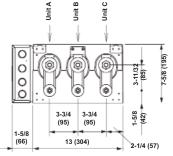










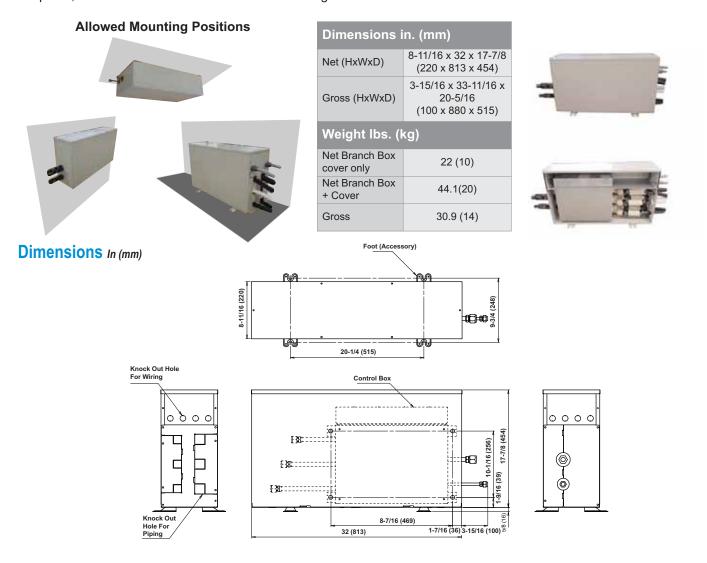


## **Branch Box Outdoor Enclosure**





The Branch Box Outdoor Enclosure is used to mount the indoor style Branch Box outdoors. The Branch Box Outdoor Enclosure is a painted metal cover to match the condensing unit. When Branch Box Outdoor Enclosure is not required, see Installation Manual for indoor mounting instructions.

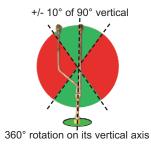


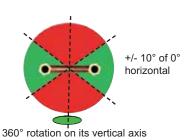
# **Separation Tube Assembly Kit**

### UTP-SX248A



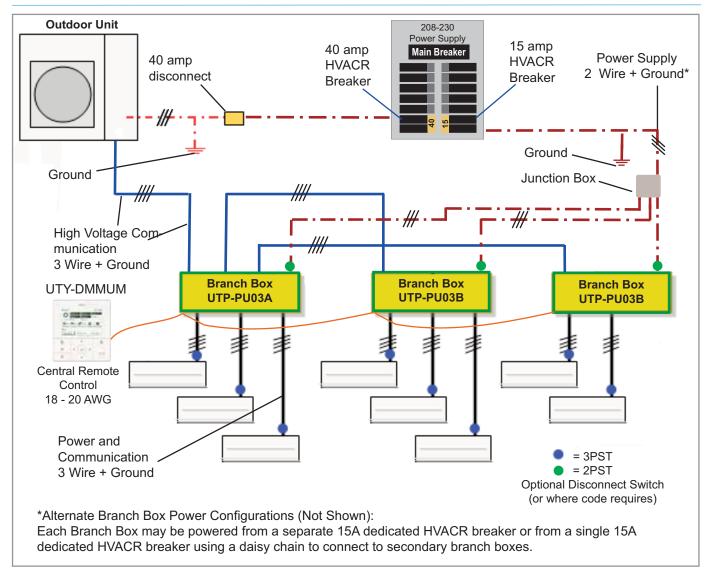
Size	Liquid Inch	3/8 x 3/8 x 3/8
Size	Suction Inch	5/8 x 5/8 x 5/8





## Wiring



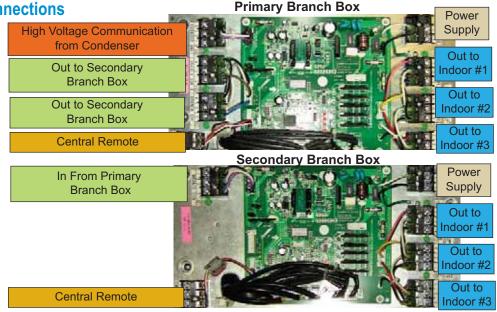


## **Branch Box Terminal Connections**

### **Miswiring Detection**

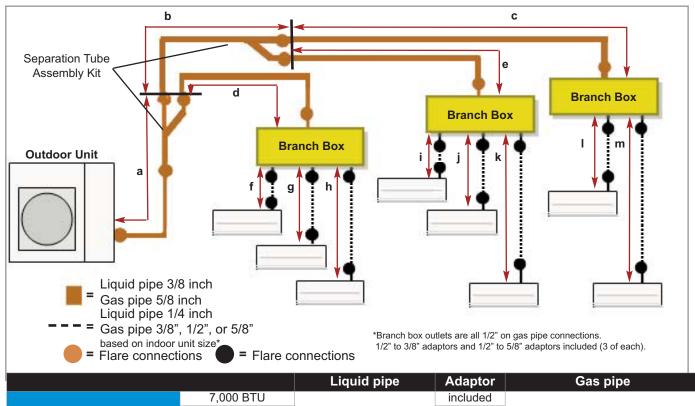
Errors Detected For...

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

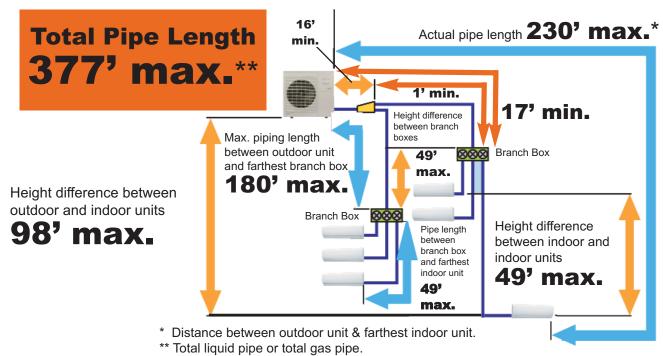


# **Piping**





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



## Allowable Combinations for AOU18RLXFZ, AOU24RLXFZ, AOU36RLXFZ

52 Combinations Based on BTU

Over 597 Combinations Based on Indoor Type and BTU









ARU9RLF, ARU12RLF, ARU18RLF, ARU24RLF



AUU9RLF AUU12RLF AUU18RLF



AOU18RLXFZ AOU24RLXFZ AOU36RLXFZ

	BTU Capacity	7,000	9,000	12,000 15,000	18,000	24,000	
AOU18RLXFZ		AOU36RLX		15 15 <mark>24</mark>	52	7 15 15 18	53
7 7		12 15	39	15 18 18	50	7 15 15 24	59
σ 7 9 7 12	10	7 7 7	28	5 15 18 24	56	7 15 18 18	57
7 12 9 9	18		30	STIND BOOM 15 18 18 24 15 18 24 24 24 24 18 18 18 18	62	7 18 18 18	61
N 9 12	21	7 7 <mark>12</mark> 7 7 15	33 36		54	9 9 9 12	39
AOU24RLXFZ		7 7 18**	39	<b>18 18 24</b>	60	9 9 9 15	41
7 7 -	14 WOON 7	7 9 9	32	7 7 7 18	39	9 9 9 18	45
7 9 -	16	7 9 12	35	7 7 7 24	45	9 9 9 24	51
7 12 -	19	7 9 15	38	7 7 9 18	41	9 9 12 12	42
7 15	22	7 12 12	38	7 7 9 24	47	9 9 12 15	44
7 18	25	9 9 9	34	7 7 12 15	40	9 9 12 18	48
9 9 -	18	9 9 12	37	7 7 12 18	44	9 9 12 24	54
9 12	21	9 9 9	36	7 7 12 24	50	9 9 15 15	46
9 15	24	AOU48RLX		7 7 15 15	42	9 9 15 18	50
9 18 12 12 12		24	42	7 7 15 18	46	9 9 15 24	56
(n)	24	24	48	7 7 15 24	52	9 9 18 18	54
12 15	27	9 24	40	7 7 18 18	50	9 9 18 24	60
7 7 7	_	12 24	43	7 7 18 24	56	9 12 12 12	45
7 7 9	_	15 18	39	7 7 24 24	62	9 12 12 15	47
	_	15 24	45	7 9 9 15 7 9 9 18	39 43	9 12 12 18	51
7 9 9 9 9 9	_	18 18 18 24	43		49	9 12 12 24 9 12 15 15	57
AOU36RLXFZ	_	24 24	55	7 9 9 24 7 9 12 12 7 9 12 15 7 9 12 18 7 9 12 24	49		49 53
18*18*		9 24	42	5 7 9 12 12 6 7 9 12 15	42	9 12 15 18 9 12 15 24	59
7 7 15 -	29 9		39	0 7 9 12 18	46	9 12 18 18	57
7 7 18 -	32 9		45	7 9 12 24	52	9 15 15 15	51
7 7 24	38		41	7 9 15 15	44	9 15 15 18	55
7 9 12 -	28		47	7 9 15 18	48	9 15 15 24	61
7 9 15 -	31 5 9		45	7 9 15 24	54	9 15 18 18	59
7 9 18	28 31 NDOOR UNITS	18 24	51	7 9 18 18	52	12 12 12 12	48
7 12 12 -	31 💆 9	24 24	57	7 9 18 24	58	12 12 12 <mark>15</mark>	50
7 12 15 7 12 18		2 12 18	42	7 12 12 12	43	12 12 12 <mark>18</mark>	54
2 7 12 18	37	2 12 <mark>24</mark>	48	7 12 12 15	45	12 12 12 <mark>24</mark>	60
9 9 9 -	27 12	2 15 15	40	7 12 12 <mark>18</mark>	49	12 12 15 15	52
9 9 12 -	30 12	2 15 <mark>18</mark>	44	7 12 12 <mark>24</mark>	55	12 12 <mark>15 18</mark>	56
9 9 15		2 15 24	50	7 12 15 15	47	12 12 15 <mark>24</mark>	62
9 9 18		18 18	48	7 12 15 18	51	12 12 <mark>18 18</mark>	60
9 12 12	33	2 <mark>18 24</mark>	54	7 <mark>12</mark> 15 <mark>24</mark>	57	12 15 15 15	54
9 12 15		24 24	60	7 12 18 18	55	12 15 15 <mark>18</mark>	58
9 12 18		5 15 15	42	7 12 18 24	61	12 15 18 18	62
12 12 12	36	5 15 <mark>18</mark>	46	7 15 15 15	49	15 15 15 15	56

<sup>\*</sup>The optional kit "K9FZ1818 (UTP-MU36A2)" is necessary for dual zone system "18+18". \*\*Wall mounted type ASU18RLF can not be connected in this combination.

"-" represents available circuit for future expansion when connecting this combination.

## Allowable Combinations for AOU48RLXFZ1

259 Combinations Based on BTU

9,131 Combinations Based on Indoor Type and BTU









ARU9RLF, ARU12RLF, ARU18RLF, ARU24RLF



AUU9RLF AUU12RLF AUU18RLF



AOU48RLXFZ1

= Allowed "Connectable Capacity" combinations between 100 and 13
--

						-
4	15	15	15	18		60
	7	7	7	7	12	40
	7	7	7	7	15	42
	7	7	7	7	18	46
	7	7	7	7	24	52
	7	7	7	9	9	39
	7	7	7	9	12	42
	7	7	7	9	15	44
	7	7	7	9	18	48
	7	7	7	9	24	54
	7	7	7	12	12	45
	7	7	7	12	15	47
	7	7	7	12	18	51
	7	7	7	12	24	57
	7	7	7	15	15	49
	7	7	7	15	18	53
	7	7	7	15	24	59
	7	7	7	18	18	57
S	7	7	9	9	9	41
NITS	7	7	9	9	12	44
S U	7	7	9	9	15	46
ğ	7	7	9	9	18	50
Z	7	7	9	9	24	56
•	7	7	9	12	12	47
	7	7	9	12	15	49
	7	7	9	12	18	53
	7	7	9	12	24	59
	7	7	9	15	15	51
	7	7	9	15	18	55
	7	7	9	15	24	61
	7	7	9	18	18	59
	7	7	12	12	12	50
	7	7	12	12	15	52
	7	7	12	12	18 24	56
	7	7	12	12		62 54
	7	7	12 12	15	15	54 58
	7	7	12	15	18	62
			15	18 15	18 15	
	7	7		15 15	15 18	56 60
	7		15			
	7	9	9	9	9	43

	7	9	9	9	12	46
	7	9	9	9	15	48
	7	9	9	9	18	52
	7	9	9	9	24	58
	7	9	9	12	12	49
	7	9	9	12	15	51
	7	9	9	12	18	55
	7	9	9	12	24	61
	7	9	9	15	15	53
	7	9	9	15	18	57
	7	9	9	18	18	61
	7	9	12	12	12	52
	7	9	12	12	15	54
	7	9	12	12	18	58
	7	9	12	15	15	56
	7	9	12	15	18	60
	7	9	15	15	15	58
	7	9	15	15	18	62
S	7	12	12	12	12	55
Ħ	7	12	12	12	15	57
J. N	7	12	12	12	18	61
8	7	12	12	15	15	59
Z	7	12	15	15	15	61
٠,	9	9	9	9	9	45
	9	9	9	9	12	48
	9	9	9	9	15	50
	9	9	9	9	18	54
	9	9	9	9	24	60
	9	9	9	12	12	51
	9	9	9	12 12	15 18	53 57
	9	9	9	15	15	55
	9	9	9	15		59
	9	9	9	15 12	18 12	59 54
_	9	9	12	12	12	54
	9	9	12 12	12 12	12 15	54 56
	9 9 9	9 9 9	12 12 12	12 12 12	12 15 18	54 56 60
	9 9 9	9 9 9	12 12 12 12	12 12 12 15	12 15 18 15	54 56 60 58
	9 9 9	9 9 9	12 12 12	12 12 12	12 15 18	54 56 60 58 62
	9 9 9 9	9 9 9 9	12 12 12 12 12	12 12 12 15 15	12 15 18 15 18	54 56 60 58 62 60
	9 9 9 9 9	9 9 9 9 9	12 12 12 12 12 15	12 12 15 15 15	12 15 18 15 18 15	54 56 60 58 62
	9 9 9 9 9	9 9 9 9 9	12 12 12 12 12 15	12 12 15 15 15 12	12 15 18 15 18 15 12	54 56 60 58 62 60 57

2	12	12	12	12	12		60
	12	12	12	12	15		62
	7	7	7	7	7	7	42
	7	7	7	7	7	9	4
	7	7	7	7	7	12	4
	7	7	7	7	7	15	49
	7	7	7	7	7	18	5
	7	7	7	7	7	24	5
	7	7	7	7	9	9	4
	7	7	7	7	9	12	49
	7	7	7	7	9	15	5
	7	7	7	7	9	18	5
	7	7	7	7	9	24	6
	7	7	7	7	12	12	5
	7	7	7	7	12	15	5
	7	7	7	7	12	18	5
	7	7	7	7	15	15	5
	7	7	7	7	15	18	6
	7	7	7	9	9	9	4
ည	7	7	7	9	9	12	5
Š	7	7	7	9	9	15	5
OR	7	7	7	9	9	18	5
<u>8</u>	7	7	7	9	12	12	5
9							5
	7	7	7	9	12	15	
	7	7	7	9	12	18	6
	7	7	7	9	15	15	5
	7	7	7	9	15	18	6
	7	7	7	12	12	12	5
	7	7	7	12	12	15	5
	7	7	7	12	15	15	6
	7	7	9	9	9	9	50
	7	7	9	9	9	12	53
	7	7	9	9	9	15	5
	7	7	9	9	9	18	59
	7	7	9	9	12	12	56
	7	7	9	9	12	15	58
	7	7	9	9	12	18	62
	7	7	9	9	15	15	60
	7	7	9	12	12	12	59
	7	7	9	12	12	15	6
							-

	7	7	12	12	12	12			62
	7	9	9	9	9	9			52
	7	9	9	9	9	12			55
	7	9	9	9	9	15			57
TS	7	9	9	9	9	18			61
3	7	9	9	9	12	12			58
R	7	9	9	9	12	15			60
9	7	9	9	12	12	12			61
9	9	9	9	9	9	9			54
	9	9	9	9	9	12			57
	9	9	9	9	9	15			59
	9	9	9	9	12	12			60
	9	9	9	9	12	15			62
_	7	7	7	7	7	7	7		49
	7	7	7	7	7	7	9		51
	7	7	7	7	7	7	12		54
	7	7	7	7	7	7	15		56
	7	7	7	7	7	7	18		60
	7	7	7	7	7	9	9		53
	7	7	7	7	7	9	12		56
	7	7	7	7	7	9	15		58
တ	7	7	7	7	7	9	18		62
Ė	7	7	7	7	7	12	12		59
Š	7	7	7	7	7	12	15		61
8	7	7	7	7	9	9	9		55
Ζ	7	7	7	7	9	9	12		58
_	7	7	7	7	9	9	15		60
	7	7	7	7	9	12	12		61
	7	7	7	9	9	9	9		57
	7	7	7	9	9	9	12		60
	7	7	7	9	9	9	15		62
	7	7	9	9	9	9	9		59
	7	7	9	9	9	9	12		62
	7	9	9	9	9	9	9		61
	7	7	7	7	7	7	7	7	56
	7	7	7	7	7	7	7	9	58
œ	7	7	7	7	7	7	7	12	61
	7	7	7	7	7	7	9	9	60
	7	7	7	7	7	9	9	9	62

### **Wall Mounts**

### **Wired Remote** Controller\*

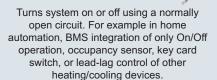
UTY-RNBYU^/UTY-RNNUM^



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.

### **Dry Contact** Wire Kit\*

UTY-XWZX/UTY-XWZXZ5



### **Wired Remote** Controller

UTY-RVNUM



Features a large backlit LCD display and displays the room temperature. Provides full feature access to property managers, building owners, and facility maintenance, as well as providing basic comfort features to tenants, employees, and teachers.

#### 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.

### Simple Remote Controller

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 does not allow any timer settings.

#### 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.

### Universal Mount/Ceiling Susp. Ceiling Suspended

### **Wired Remote** Controller

UTY-RNBYU\*\*



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.

**Condensate Pump** UTR-DPB24T



OEM design plugs into factory harness for ease of installation. Rated for 11.8" of vertical lift. Only used with System 36RSLX.

### **Large Cassettes**

### Fresh Air Intake Kit

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.

## **Compact Cassettes**

### **High Humidity Insulation Kit**

**UTZ-KXGC** 



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

#### Fresh Air **Intake Kit** 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.

### **Dry Contact** Wire Kit UTY-XWZX



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.

### **Wireless Remote** Controller

**UTY-LNHUM** 



For spaces where there is just no place to mount the wired remote or where wireless operation is preferred.

### Simple Remote Controller

UTY-RSNUM

Suitable when only basic operations are required for hotels, offices and other places where there is frequent arrival and departure of occupants. Timer feature is not available.

### Air Outlet **Shutter Plate UTR-YDZB**



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

- ^ 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.

### **Compact Ducts**

Receiver Unit



Includes a wireless remote control.

#### Remote Sensor UTY-XSZX



Wall mounted temperature sensor for compact duct models

# Simple Remote Controller

**UTY-RSNUM** 



Compact Duct Connector Kit UTD-ECS5A



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

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.

### **AOU36RLXFZ**

18+18 Combo Fittings Kit 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 31,600 BTU in cooling. The kit upsizes linesets to 3/8" and 1/2".

### AOU48RLXFZ1

Central Remote Controller UTY-DMMUM



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.

### Outdoor Unit Input/Output Connector UTY-XWZXZ3



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.

\*Will reduce capacity.

### Outdoor Unit Base Heater Connector UTY-XWZXZ4



Used to hook up an AUX base pan heater to the outdoor unit. Heater will stop ice from forming in the outdoor unit. Base heater will operate when outdoor temperature is below 36°F. Heater is field supply. Heaters greater than 25W can't be fed directly from the board, but have to be powered from another source.

### **All Models**

3-Pole Single Throw Safety Switch K3PST

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



### 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.

Compatibility		Ceiling Large Cassette	HFI Multi-Zone and Flex-Zone
	9RLFW 9RLS2 9RLS2H 12RL2 12RL2 12RLS2 12RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLS2H 16RLSCH 16RL		Small Wall (7,9,12k BTU) Designer Wall (9,12,15k BTU) Large Wall (18,,24k BTU) Cassette Compact Duct AOU48RLXFZ1
UTY-RNBYU Wired Remote Control	•1 •1 •1 •1 •1 •1	1 •1 •1	
UTY-RNNUM Wired Remote Control	●2 ●3 ●3 ● 3 ●3 ●3 ●3 ● 4		●2 ●3 ●
UTY-RVNUM Wired Remote Control (Backlit, shows room temp.)			
UTY-RSNUM Simple Remote Control	$\bullet^2 \bullet^3 \bullet^3 \qquad \bullet  \bullet^3 \bullet^3 \bullet^3 \bullet^3 \qquad \bullet \qquad \bullet$		● <sup>2</sup> ● <sup>3</sup> ● ●
UTY-LNHUM Wireless Remote Control	• • •		•
UTY-DMMUM Central Remote Control			•
UTY-XWZX Dry Contact Wire Kit			•2
UTY-XWZXZ5 Dry Contact Wire Kit	●3 ●3 ●3 ●3 ●3 ●3		●3
UTY-XCBXZ1 Interface Kit <sup>2</sup>	• •		•
UTY-TWBXF Interface Kit <sup>3</sup>	• • • • •		•
UTR-DPB24T Condensate Pump		•	
KHRS940-25 Fresh Air Intake		• • • •	
UTZ-KXGC High Humidity Insulation Ki	• • •		•
UTZ-VXAA Fresh Air Intake Kit	• • •		•
UTR-YDZB Air Outlet Shutter Plate	• • •		•
UTY-LRHUM Receiver Unit			•
UTY-XSZX Remote Sensor			•
UTD-ECS5A Compact Duct Connector Ki			•
K9FZ1818 18+18 Combo Fittings Kit			•
UTY-XWZXZ3 Outdoor Unit Input/Output Connecto			•
UTY-XWZXZ4 Outdoor Unit Base Heater Connecto			•
K3PST 3-Pole Single Throw Safety Switch	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • • •
K9R410A55 R410A Swivel Adapter			• • • • •

- 1 If using UTY-RNBYU with these models you need to change the dip switch SW-1 to "ON". Refer to Tech Tip #028.
- 2 Wall mounted ASU7, 9, and 12RLF require accessory interface kit #UTY-XCBXZ1 in order to connect these devices to them.
- 3 Wall mounted ASU9, 12, and 15RLS2 require accessory interface kit #UTY-TWBXF in order to connect these devices to them.

## **Line Set Sizes and Lengths**

	Single Zone Systems																													
																-,													<u> </u>	
	9RL2	9RLFW	9RLS2	9RLS2H	12RL2	12RLFW	12RLS2	12RLS2H	15RLS2	15RLS2H	18CL	18RLXFW	24RLXFW	24CL1	30CLX1	30RLX	36CLX1	9RLFCD	12RLFCD	18RLFCD	9RLFCC	12RLFCC	18RLFCC	18RULX	24RULX	36RSLX	18RCLX	24RCLX	36RCLX	42RCLX
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	66	66	66	66	66	66	66	66	66	66	66	165	165	66	165	165	165	66	66	66	66	66	66	165	165	165	165	165	165	230
Pipe Length ft (m)	(20)	(20)	(20)	(20)	(20)	(20)	(20)	(20)	(20)	(20)	(20)	(50)	(50)	(20)	(50)	(50)	(50)	(20)	(20)	(20)	(20)	(20)	(20)	(50)	(50)	(50)	(50)	(50)	(50)	(70)
Min. Combined	9	9	9	9	9	9	9	9	9	9	9	16	16	9	16	16	16	9	9	9	9	9	9	16	16	16	16	16	16	16
Pipe Length ft (m)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(5)	(5)	(2.7)	(5)	(5)	(5)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(2.7)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
While these syste	While these systems share indeer units, different line sizes are required																													

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

		Multi / Flex Zone Models																						
	ASU7RLF	ASU9RLF	ASU9RLS2	ASU12RLF	ASU12RLS2	ASU15RLS2	ASU18RLF	ASU24RLF	ARU9RL	ARU12RLF	ARU18RLF	ARU24RLF	<b>AUU9RLF</b>	AUU12RLF	AUU18RLF	ASU18RLF x 2*	ARU18RLF x 2*	AUU18RLF x 2*	UTP-PU03A /3B^	AOU18RLXFZ	AOU24RLXFZ	AOU36RLXFZ	AOU36RLXFZ (18+18)	AOU48RLXFZ1
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																						230		377
Pipe Length ft (m)																				//	( /	(70)		(115)
Min. Combined																				49	49			16 <sup>1</sup> 10 <sup>2</sup>
Pipe Length ft (m)	Mini	mum	one	l mo	vimu	m n	no le	an atl	oo fo	r mu	lti a	200.1	ınita	oro	foun	d on	noa	20.2	C 2				(15)	$(5)^{1}(3)^{2}$
Each Indoor Unit	Mini	mum	rano	ı ma	xımı	ш р	pe ie	engu	15 10	r mu	III-ZC	ле (	ınıts	are	ioun	u on	pag	es 3	o, 31	and	141.			



## **Fujitsu Model Nomenclature**

ASU Wall Mount BTUs in R = Reverse cycle heat pump C = Cassette L = Inverter S = Su Efficient		
		Zone
ABU Universal Mount thousands C = Cooling only S = Ceiling Suspended X = Extended Line Set X = Extended Line Set	sot WE V	Wall Iount
ARU Compact Duct  L = Inverter S = Super Efficient S = Super Effic		Only
AUU Cassette Mount U = Universal F = HFI F = H		
AOU Outdoor Unit  H = Hi Hea	ng	
W = Work	nt	
C = Com Cassi Com	te or act	

<sup>\*18+18</sup> is the only 2 indoor unit combination allowed for AOU36RLXFZ and requires kit K9FZ1818.

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

Line set size from outdoor unit AOU48RLXFZ1 to the branch boxes.

<sup>&</sup>lt;sup>1</sup> Minimum combined pipe length from outdoor unit to branch box.

 $<sup>^{\</sup>rm 2}$  Minimum combined pipe length from branch box to indoor unit each.

### 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.

#### **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.

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**

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.







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.



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