

FUJITSU

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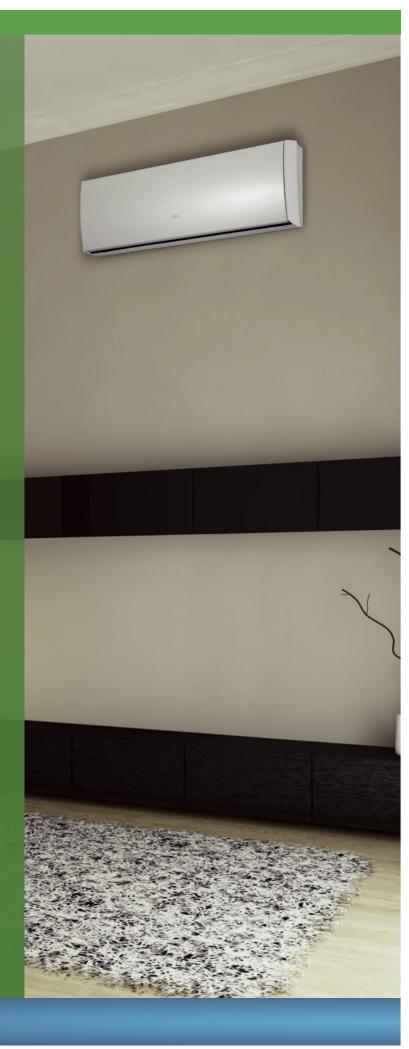
MULTI ZONE MINI-SPLIT SYSTEMS

Revolutionary Halcyon HPT systems are changing the way we define comfort



- Operate as few as one indoor unit or all indoor units
- Choose from 4 indoor unit styles wall mount including new RLF1 models and Designer Series RLS2 models, slim duct, compact cassette, and floor mount
- Create over 56,000 combinations based on indoor type and BTU
- Connect 2 to 8 indoor units
- Connect 39,000 to 62,000 BTU
- 80 to 130% connectable capacity
- Branch boxes and separation tubes required





What is a Hybrid?

The blending of a complex VRF system with the simplicity of a multi-zone system to create a new hybrid solution that shares the best of both systems.

Why Flex?

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.

Why Inverter?

An Inverter is a system that controls the rotational speed (not just an ON/OFF signal) of an electric motor by adjusting the frequency and voltage of the electrical power supplied to the motor. The inverter constantly regulates the compressor speed to its optimum energy usage, producing higher refrigerant performance with less power consumption.

130% Connectable Capacity (AOU48RLXFZ1 Only)

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 can exceed outdoor unit capacity. However, if you connect indoor units that exceed 100% of the outdoor unit's capacity there are limitations.

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

VRF Limitations

- Expensive
- Sweat connections
- Computer design required
- No efficiency label today
- Increased labor to install

HFI

- Long piping
- Better value
- SEER rated
- Flare connections
- Easier installation
- 4-way outdoor unit connection
- 130% capacity

HFI

- Up to 8 zones
 - Central remote
 - Lower copper tubing costs
- Miswiring detection

BENEFITS

Multi-Zone Limitations

- Shorter piping length
- Fewer number of zones
- No central remote control
- No over connectable capacity

unused capacity is then distributed to the remaining indoor units, increasing their capacity.

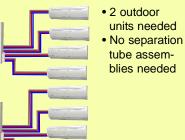
For Example: The load on a small 2-story office building with a business downstairs and worker apartments upstairs is 62,000 BTUs (38,000 BTUs downstairs and 24,000 BTUs upstairs) but the workers aren't upstairs and downstairs at the same time, therefore not all units will be running simultaneously allowing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

HFI vs. Multi vs. VRF

AHRI defines VRF as having three main features: (1) a variable speed compressor, (2) a computerized control individual zoning system and (3) optimized refrigerant path of installation.

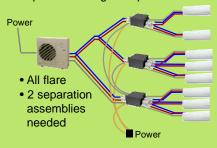
TYPICAL INVERTER MULTI-ZONE

- Variable speed compressor
- Computerized zone control
- With the expansion valves mounted in the outdoor unit, it does not have an optimized refrigerant path.



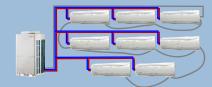
Halcyon Hybrid Flex Inverter

- Variable speed compressor
- Computerized zone control
- · Remotes expansion valves from the outdoor unit to mid-stream in the refrigerant piping, creating a semioptimized refrigerant path.



TYPICAL INVERTER VRF SYSTEM

- Variable speed compressor
- Computerized zone control
- Expansion valves are mounted either within or near the indoor unit, and engineered piping maximizes compressor efficiency to create an optimized refrigerant path.



- All sweat connections
- 7 separation assemblies needed

Individual Zoning: Personalized Whole Home Comfort

Halcyon HFI Systems are some of today's most advanced forms of heating and air conditioning. Multi-zone outdoor units can operate from 2 to 8 indoor units simultaneously. Fujitsu's HFI Systems are super quiet as well as highly energy efficient. Choose from 4 indoor unit styles.

Wall Mounted

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

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





Slim Duct

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

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

Compact Cassette

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

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





Floor Mounted

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

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

Wall Mounts ASU7, 9, 12RLF1 ASU9, 12RLS2 ASU15RLS2 ASU18RLF ASU24RLF **Floor Mounts** Slim Ducts ARU24RLF ARU18RLF ARU7, 9, 12RLF AGU9, 12RLF **Compact Cassettes** Separation Tubes, Branch Boxes



Mix and Match Flexibility

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.







AGU15RLF







UTP-SX248A

UTP-PU03A, UTP-PU03B

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

ASU7RLF1, ASU9RLF1, ASU9RLS2, ASU12RLF1, ASU12RLS2, ASU15RLS2, ASU18RLF, ASU24RLF







Designer Series

	ASU7RLF1	ASU9RLF1	ASU12RLF1	ASU18RLF	ASU24RLF	ASU9RLS2	ASU12RLS2	ASU15RLS2
	Heat Pump	Heat Pump <u>NEW!</u>	Heat Pump	Heat Pump	Heat Pump	Heat Pump*	Heat Pump*	Heat Pump*
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 182 (310) Htg 194 (330)	Clg 182 (310) Htg 194 (330)	Clg 182 (310) Htg 194 (330)	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	21/22	21/22	21/22	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)	19 (8.5)	19 (8.5)	19 (8.5)	31 (14)	31 (14)	21 (9.5)	21 (9.5)	21 (9.5)
Dims: Height Inch (mm)	10-1/2 (268)	10-1/2 (268)	10-1/2 (268)	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)	33-1/16 (840)	33-1/16 (840)	33-1/16 (840)	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
	* ESP feature not of	compatible in multi-zo	one configurations. ^H	leight when front par	nel is open.			

Standard Features

- Wireless Remote Control*
- Apple Catechin Filter
- Ion Deodorizing Filter
- Sleep Timer
- 24-Hour Timer
- Dry Mode
- Auto Louver: 4-Way**
- Auto Mode
- Minimum Heat Mode
- 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.



Apple-Catechin Filter Dust, mold spores and micro-

organisms are absorbed onto the filter by static electricity and growth is inhibited and deactivated.

- + The filter can be used for approximately 3 years if it is washed with water when dirty to restore it's surface action.
- * Features vary by model and therefore standard wireless remote controls should be used with the models they are
 - associated with. ** Feature of models ASU18, 24RLF only.

Slim Duct 7, 9, 12, 18 and 24,000 BTUs ARU7RLF, ARU9RLF, ARU12RLF, ARU18RLF, ARU24RLF



			-		
	ARU7, 9, 1	2RLF	ARU18RLF	ARU	24RLF
	ARU7RLF Heat Pump NEW!	ARU9RLF Heat Pump	ARU12RLF Heat Pump	ARU18RLF Heat Pump	ARU24RLF Heat Pump
Nominal Cooling BTU/h		9,000	12,000	18,000	24,000
Nominal Heating BTU/h		10,200	13,500	20,000	27,000
Voltage/Frequency/Phase		208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Recommended Static Pressure In. W. C.		0 ~ 0.36	0 ~ 0.36	0 ~ 0.36	0 ~ 0.20
Air Circ. C.F.M. (m ³ /h) Clg/Htg: Hi		353 (600)	383 (650)	554 (940)	783 (1,330)
Medium		324 (550)	353 (600)	518 (880)	730 (1,240)
Low	276 (470)	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	28/28	29/29	32/33	33/35
Medium	26/26	27/26	28/28	31/32	32/34
Low	25/25	26/25	27/27	30/31	30/32
Quiet	24/24	25/24	26/24	29/29	29/29
Running Current Rated (A): Cooling	0.30	0.30	0.35	0.44	0.66
Heating	0.30	0.30	0.35	0.44	0.66
Power Use Rated (W): Cooling	33	49	58	73	111
Heating	33	49	58	73	111
Fan Speeds Stage	4 + Auto	4 + Auto	4 + Auto	4 + Auto	4 + Auto
Air Filter	Washable	Washable	Washable	Washable	Washable
Connection Method	Flare	Flare	Flare	Flare	Flare
Conn. Pipe Diameter Inch	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4	suc 5/8 dis 1/4
Net Weight Ibs. (kg)	37 (17)	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)	7-25/32 (198)
Width Inch (mm)	27-9/16 (700)	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)	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)	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 Dimensions: Height Inch (mm)	6 (152)	6 (152)	6 (152)	6 (152)	6 (152)
Width Inch (mm)	. ,	22 (559)	22 (559)	30 (762)	37-3/4 (959)
Death 1 1 ()	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)
Depth Inch (mm)	0,4 (10) (110)	0/1 (10) (1 lat)			

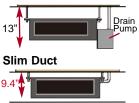
Field Supplied Filters

T IIICI S	ARU	ARU	ARU	ARU	ARU
	7RLF	9RLF	12RLF	18RLF	24RLF
CFM	323	353	383	554	785
Typical Filter Size	12 x 20	12 x 20	12 x 20	14 x 25	18 x 30
Velocity, FPM	194	212	230	228	209
Unit External SP. in. W.C.	0.36	0.36	0.36	0.36	0.20
,		1" Fi	iberglass l	Filter	
SP Loss, in. W.C.	0.04	0.04	0.05	0.04	0.04
Available Static Pressure	0.32	0.32	0.31	0.32	0.16
		1" MER	V 8 Pleate	ed Filter	
SP Loss, in. W.C.	0.10	0.12	0.14	0.14	0.12
Available Static Pressure	0.26	0.24	0.22	0.22	0.08
		2" MER	V 8 Pleate	d Filter	
SP Loss, in. W.C.	0.06	0.07	0.08	0.08	0.07
Available Static Pressure	0.30	0.29	0.28	0.28	0.13

Duct

ble when cavity is small ere is no slope in.





ible Installation ontal or vertical*.



rnal drain pump will perate when the unit . nounted in a vertical configuration.

dard Features

- y Mode
- Weekly Timer
- Sleep Timer* 0
- 24-Hour Timer*
- Minimum Heat Mode*
- Auto Mode
- Quiet Mode
- Auto Restart/Reset
- Auto Changeover 0
- **Condensate Pump** .

Fresh Air Intake . *Available only with optional wireless remote control.

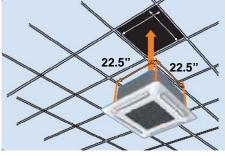


Compact Cassettes 7, 9, 12, and 18,000 BTUs

AUU7RLF, AUU9RLF, AUU12RLF, AUU18RLF

Easy Installation

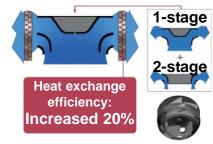
Fits into a standard ceiling tile*. Compact cassette and compact duct models can be networked.



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

2-Stage Turbo Fan

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



Standard Features

- Sleep Timer
- Dry Mode
- Auto Louver: Up/ Down
- Quiet Mode
- Auto Restart/Reset ø
- Auto Changeover
- **Remote Temperature Sensor** 0
- **High Ceiling Mode**
- **Condensate Pump**
- 2-Stage Turbo Fan 0
- Minimum Heat Mode+
- Fresh Air Intake** 0

+ 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 and a field supplied duct booster fan. Fresh air maximum is 10% of unit High fan CFM. See UTZ-VXAA Design and Technical Manual for fan static pressure requirements at Fresh Air Kit. Add hood, filter and duct losses for fan total static pressure requirements. Will add 4" to the height of the indoor unit.

Refrigerant

R410A

R410A

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





	AUU7RLF	AUU9RLF	AUU12RLF	AUU18RLF
	Heat Pump NEW!	Heat Pump	Heat Pump	Heat Pump
Nominal Cooling BTU/h	7,000	9,000	12,000	18,000
Nominal Heating BTU/h	8,100	10,200	13,500	20,000
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Air Circ. C.F.M. (m³/h): Hi	318 (540) Clg or Htg	318 (540) Clg or Htg	359 (610) Clg or Htg	441 (750) Clg 471 (800) Htg
Medium	288 (490) Clg or Htg	288 (490) Clg or Htg	312 (530) Clg or Htg	359 (610) Clg 418 (710) Htg
Low	259 (440) Clg or Htg	259 (440) Clg or Htg	277 (470) Clg or Htg	306 (520) Clg 353 (600) Htg
Quiet	230 (390)	230 (390)	241 (410)	241 (410) Clg
Noise Level dB(A) Clg/Htg: Hi	Clg or Htg 33/34	Clg or Htg 33/34	Clg or Htg 37/37	265 (450) Htg 42/44
Medium	31/32	31/32	33/33	37/40
Low	29/29	29/29		33/37
			31/31	
Quiet	27/27	27/27	28/28	29/30
Running Current Rated (A): Cooling	0.15	0.15	0.19	0.30
Heating	0.15	0.15	0.19	0.30
Power Use Rated/Max (W): Clg	18	18	23	39
Heating	18	18	23	39
Fan Speeds Stage	4+auto	4+auto	4+auto	4+auto
Air Direction: Vertical	Automatic	Automatic	Automatic	Automatic
Air Filter	Washable	Washable	Washable	Washable
Front Grille	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*
Connection Method	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
Net Weight Ibs. (kg)	33 (15)	33 (15)	33 (15)	33 (15)
Chassis Dim: Height Inch (mm)	9-11/16 (245)	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)	22-7/16 (570)
Depth Inch (mm)	22-7/16 (570)	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)	1-15/16 (49)
Width Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Depth Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Defrigerent				

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

R410A

R410A

Floor Mounted 9, 12, and 15,000 BTUs

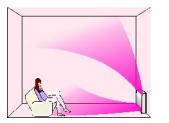
AGU9RLF, AGU12RLF, AGU15RLF



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

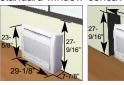
2-Fan and Wide Airflow

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



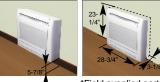
Flexible and Easy Installation

Beneath Standard standard window concave portion



Wall

Half concealed*



*Field supplied parts required

Standard Features

- Wireless Remote Control 0
- Apple Catechin Filter .
- Ion Deoderizing Filter 0
- Sleep Timer 0
- 24-Hour Timer .
- Auto Louver: Up/Down 0
- Auto Mode .
- Minimum Heat Mode .
- Economy Mode 0
- Auto Restart/Reset 0
- Auto Changeover 0
- Powerful Mode 0



Designer wireless remote control



	AGU9RLF	AGU12RLF	AGU15RLF
	Heat Pump NEW!	Heat Pump NEW!	Heat Pump NEW!
Nominal Cooling BTU/h	9,000	12,000	14,200
Nominal Heating BTU/h	12,000	16,000	18,000
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Air Circ. C.F.M. (m ³ /h): Hi	312 (530)	353 (600)	383 (650)
Medium	259 (440)	288 (490)	306 (520)
Low	212 (360)	224 (380)	235 (400)
Quiet	159 (270)	159 (270)	159 (270)
Noise Level dB(A)Clg/Htg: Hi	39/39	42/42	44/44
Medium	34/34	36/38	38/39
Low	28/28	30/32	31/33
Quiet	22/22	22/22	22/22
Running Current Rated (A): Cooling	0.15	0.18	0.20
Heating	0.15	0.18	0.20
Power Use Rated (W): Cooling	16	18	23
Heating	16	18	23
Fan Speeds Stage	4+Auto	4+Auto	4+Auto
Air Direction: Horizontal	Manual	Manual	Manual
Vertical	Auto	Auto	Auto
Air Filter	Washable	Washable	Washable
Apple Catechin Filter	Yes	Yes	Yes
Ion Deoderizing Filter	Yes	Yes	Yes
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)	31 (14)	31 (14)	31 (14)
Dimensions: Height Inch	23-5/8	23-5/8	23-5/8
mm	600	600	600
Width Inch	29-1/8	29-1/8	29-1/8
mm	740	740	740
Depth Inch	7-7/8	7-7/8	7-7/8
mm	200	200	200
Refrigerant	R410A	R410A	R410A



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

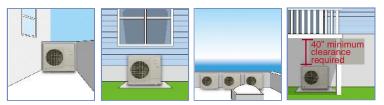
18k BTU/h + 24 k BTU/h = 42k BTU/h ··OK 12k BTU/h + 24 k BTU/h = 36k BTU/h ··Not Allowed (below 80%)

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.



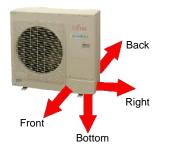
Self Diagnostic Feature

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

ENTER

CHECK

ELECT

A high performance, low noise, large capacity DC twin rotary compressor is used. Includes Quiet Mode for night operation.



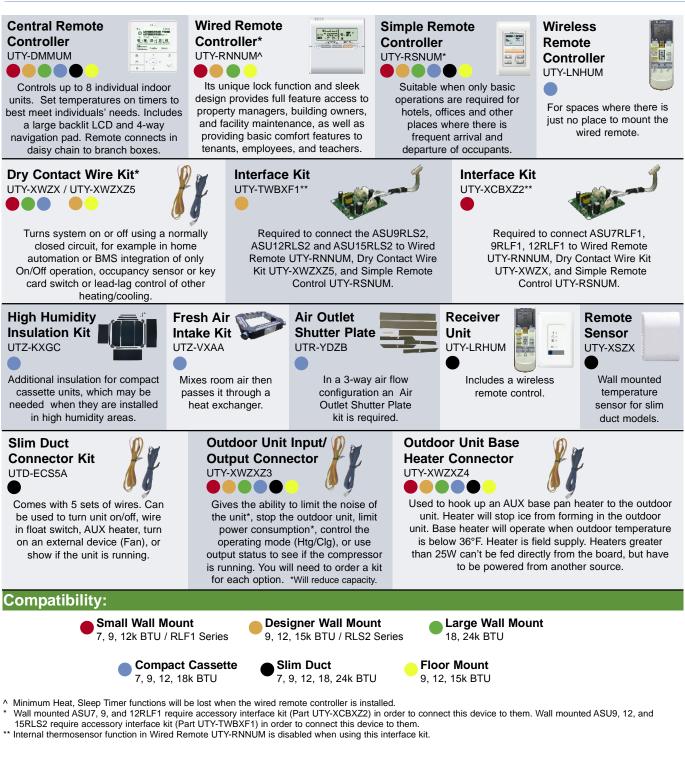
ity		AOU48RLXFZ1 Heat Pump
	Connectable Indoor Unit Number	2 to 8
	Connectable Indoor Unit Capacity	80 to 130% Nominal (39,000 - 62,000 BTU)
	Connectable Branch Box Number	1 to 3
	Nominal Cooling BTU/h	48,000
	Max Cooling BTU/h	51,100
	Nominal Heating BTU/h	54,000
	Low Temp. Heating 17°F BTU/h	40,000
	Max Heating BTU/h	57,000
	Clg. Operating Range °F(°C)	23-115 (-5-46)
	Htg. Operating Range °F(°C)	5-75 (-15-24)
	Input Power: Cooling Rated kW*	5.52 / 5.19 / 5.35
	Input Power: Heating Rated kW*	5.02 / 4.89 / 4.96
	Voltage/Frequency/Phase	208-230/60/1
	Current: Clg Outdoor Max. (A)	24.5 / 23.0 / 23.7
	Current: Htg Outdoor Max. (A)	22.3 / 21.7 / 22.0
	Recommended Fuse Size (A)	40
	Outdoor Fan Speed RPM (Clg/Htg)	890/910
	Fan: Type x Quantity	Propeller x 1
	Fan Motor Output W	111
S	ound Pressure Level Cooling dB(A)	56
So	ound Pressure Level Heating dB(A)	58
	Max. Pipe Length Total Ft (m)	377 (115)
	Max. Pipe Length Between Box & Farthest Indoor Unit <i>Ft (m)</i>	49 (15)
Ма	x. Pipe Height Difference Between Outdoor Unit & Branch Box <i>Ft (m)</i>	98 (30)
	Max. Pipe Height Difference Between Indoor Units Ft (m)	98 (30)
	x. Pipe Height Difference Between adoor Unit & Farthest Indoor <i>Ft (m)</i>	98 (30)
	Connection Method	Flare
	Conn. Pipe Diameter Inch	3/8 (Liq.) 5/8 (Suc.)
	Net Weight Ibs. (kg)	216 (98)
	Dimensions: Height Inch	36
	mm	914
	Width Inch	38-1/4
	mm	970
	Depth Inch	14-5/8
	mm	370
	Refrigerant	R410A
	Keingerant	

*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

Optional Accessories



Allowable Combinations

AOU48RLXFZ1 offers over 250 combinations of systems based on BTU/h. When both indoor type and BTU/h are considered, there are over 56,000 combinations of systems! For a full listing of combinations, please visit: www.fujitsugeneral.com/combinations.pdf.



Branch Boxes UTP-PU03A, UTP-PU03B



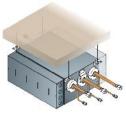


	UTP-PU03A	UTP-PU03B	
	Primary	Secondary	Di
Connectable Indoor Unit	1 ~ 3	1 ~ 3	וט
Max. Combination BTU/h	62,000 Nom.*	62,000 Nom.*	
Min. Combination BTU/h	7,000 Nom.*	7,000 Nom.*	D
Clg. Operating Range °F(°C)	25-115 (-5-46)	25-115 (-5-46)	
Htg. Operating Range °F(°C)	5-75 (-15-24)	5-75 (-15-24)	
%RH	80 or less	80 or less	
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	(
Maximum Current Ampacity (A)	15	15	Co
Running Current Rated (A): Cooling	0.050	0.050	
Heating	0.050	0.050	
Power Use Rated (W): Cooling	10	10	С
Heating	10	10	
*As long as the total system nominal capa	city is between 39,00	0 and 62,000 BTUs.	

	UTP-PU03A	UTP-PU03B
	Primary	Secondary
Dimensions: Gross (Flare to Flare):		
Height x Width x Depth Inch	7-5/8 x 33 x 14-5/8	7-5/8 x 33 x 14-5/8
Height x Width x Depth mm	195 x 838 x 370	195 x 838 x 370
Dimensions: Net (Metal Box Only):		
Height x Width x Depth Inch	7-5/8 x 17 x 14-5/8	7-5/8 x 17 x 14-5/8
Height x Width x Depth mm	195 x 433 x 370	195 x 433 x 370
Net Weight Ibs. (kg)	20 (9)	20 (9)
Conn. Pipe Diameter - Main Inch	(3/8 Liq. x 5/8 Suc.)	(3/8 Liq. x 5/8 Suc.)
Conn. Pipe Diameter - Branch Inch	(1/4 Liq. x 1/2 Suc.) 3 pair	(1/4 Liq. x 1/2 Suc.) 3 pair
Connection Method	Flare	Flare
Connection Adapter Included Inch	(1/2MF x 3/8FF) x 3 (1/2MF x 5/8FF) x 3 No adapter needed for 18k BTU	(1/2MF x 3/8FF) x 3 (1/2MF x 5/8FF) x 3 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



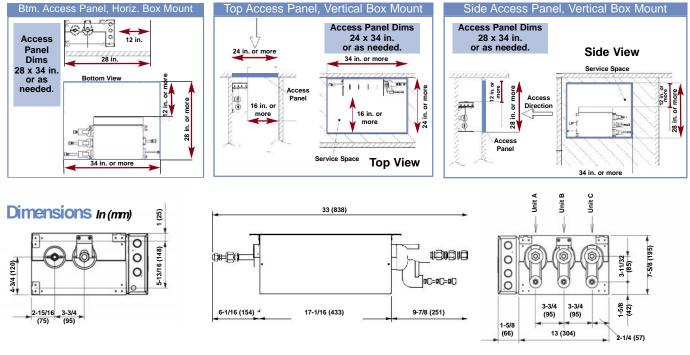
By reversing the electrical box position you <u>can</u> orient the inlet and outlet pipes into a left hand or right hand configuration.

Vertical Wall Mount



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

Clearances

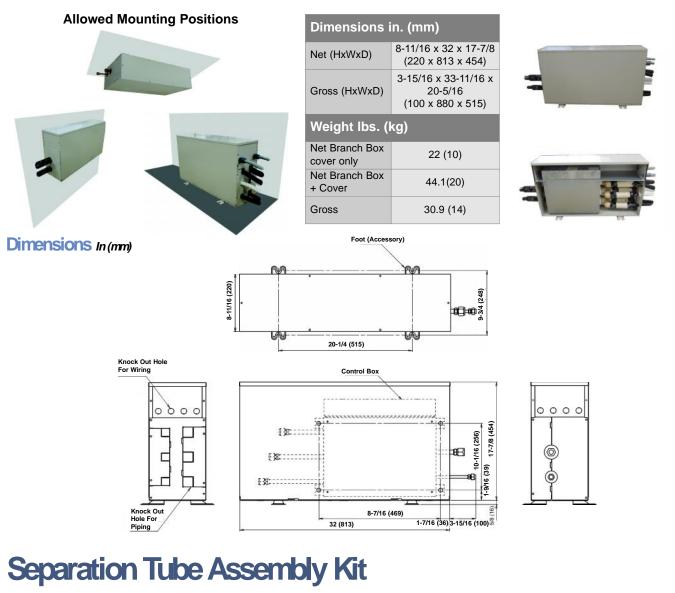


Branch Box Outdoor Enclosure

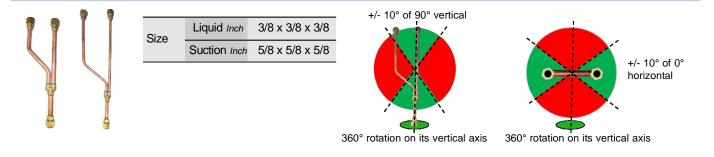


UTP-PX-A

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.

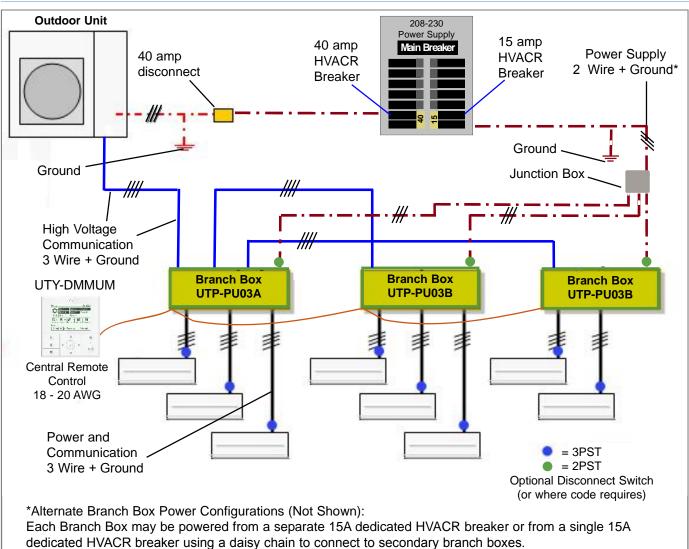


UTP-SX248A



Wiring



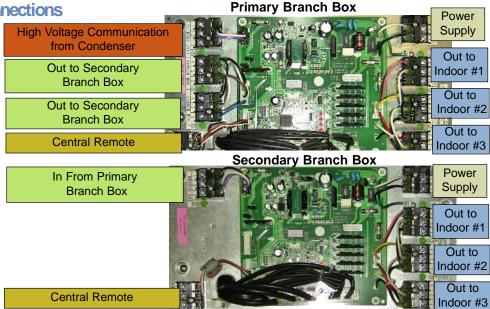


Branch Box Terminal Connections

Miswiring Detection

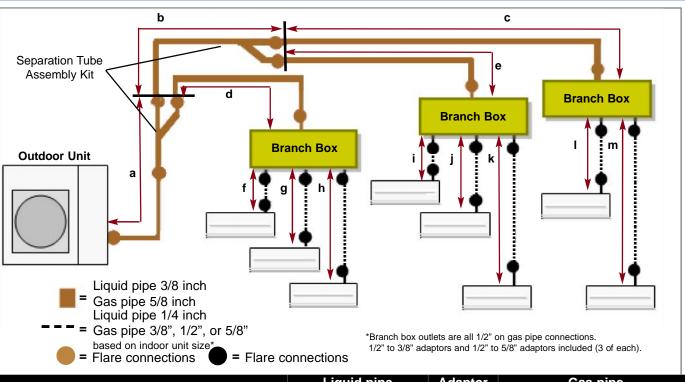
Errors Detected For...

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

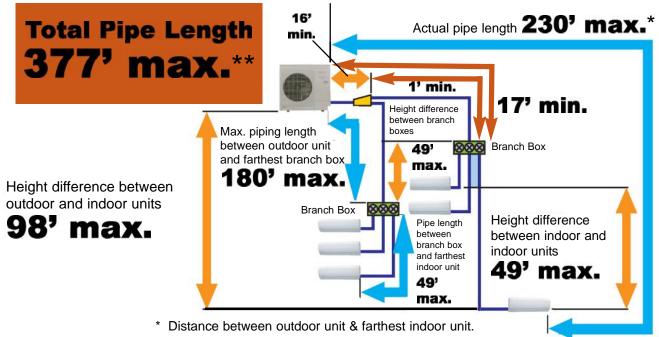








		Liquid pipe	Adaptor	Gas pipe	
	7,000 BTU		included		
	9,000 BTU		included	3/8 inch	
Branch Box to Indoor	12,000 BTU	1/4 inch	included		
	18,000 BTU		n/a	1/2 inch	
	24,000 BTU included	included	5/8 inch		
Calculate	Pipe Diameter	Location		Additional Refrig.	
Refrigerant Charge	3/8"	Outdoor to Branch	n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

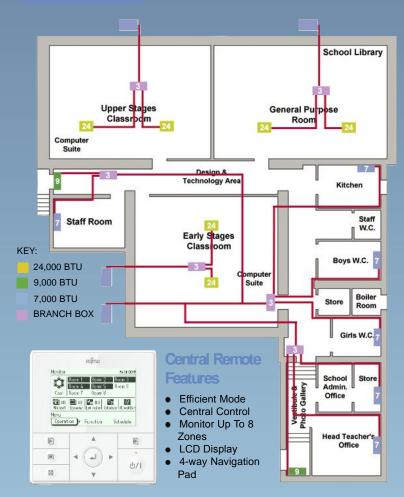


** Total liquid pipe or total gas pipe.

Examples



Church/School





FUJITSU

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