

FUJITSU

Halcyon **HFI**
Hybrid Flex Inverter



Mini-Split Heating and Cooling Systems

Multi-Zone Systems Lineup for Residential and Light Commercial Applications



Multi-Zone Series

2 to 5 Zones

AOU18RLXFZ
AOU24RLXFZ
AOU36RLXFZ1
AOU45RLXFZ



XLTH Series

2 to 4 Zones

AOU18RLXFZH
AOU24RLXFZH
AOU36RLXFZH



HFI Series

2 to 8 Zones

AOU48RLXFZ1

MULTI ZONE MINI-SPLIT SYSTEMS

- Operate as few as one indoor unit or all indoor units
- Choose from 4 indoor unit styles - wall mount, slim duct, compact cassette, and floor mount
- Four combinations are ENERGY STAR® qualified
- Create over thousands of combinations based on indoor type and BTU



- Connect 2 to 5 indoor units, depending on model
- Connect 14,000 to 48,000 BTU
- No branch boxes or separation tubes required



18, 24, 36,000 BTUs

- Connect 2 to 4 indoor units, depending on model
- Connect 14,000 to 39,000 BTU
- eXtra Low Temp Heating down to -15°F outdoor temps
- No branch boxes or separation tubes required



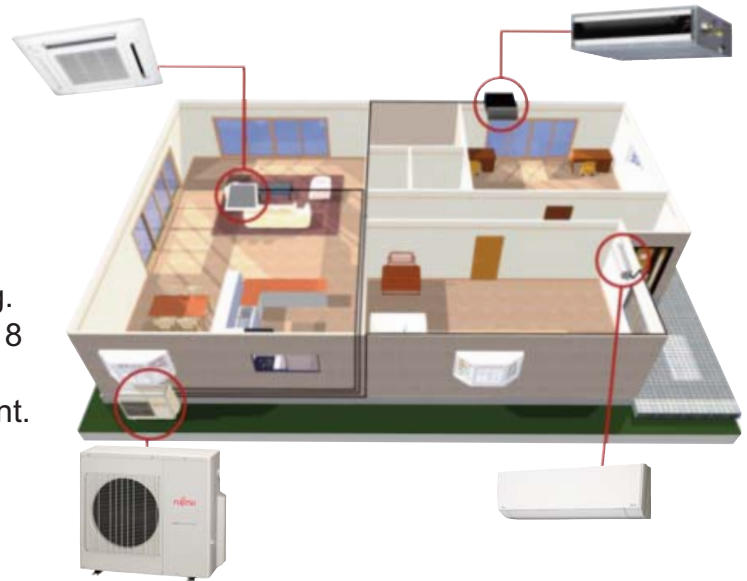
- Connect 2 to 8 indoor units
- 80 to 130% connectable capacity
- Connect 39,000 to 62,000 BTU
- Branch boxes and separation tubes required



Year-Round, Whole Home or Business Comfort

Halcyon 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 systems are super quiet as well as highly energy efficient.

Shown to the right is outdoor model AOU36RLXFZ1 connected to a compact cassette, slim duct and wall mount indoor units.



Multi-Zone and XLTH Series Systems 18, 24 and 36,000 BTU/h

AOU18RLXFZ, AOU18RLXFZH, AOU24RLXFZ, AOU24RLXFZH, AOU36RLXFZ1, AOU36RLXFZH, AOU45RLXFZ

Connectable Capacity

This function 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 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 AOU36RLXFZ1 outdoor unit.

HFI Series System 48,000 BTU/h

AOU48RLXFZ1

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 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 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



*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.*

Wall Mounts



ASU7, 9, 12RLF1



ASU9, 12RLS2*



ASU15RLS2*



* ASU9, 12, 15RLS2 are NOT compatible with AOU18/24/36RLXFZH, AOU36RLXFZ1 or AOU45RLXFZ.



ASU18RLF



ASU24RLF



Slim Ducts



ARU7, 9, 12RLF



ARU18RLF



ARU24RLF



Floor Mounts



AGU9, 12RLF



AGU15RLF



Separation Tubes, Branch Boxes



UTP-SX248A



UTP-PU03A, UTP-PU03B



Compact Cassettes



AAU7, 9, 12RLF



AAU18RLF



Individual Zoning: Personalized Whole Home Comfort

Wall Mounted

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

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



Slim Duct

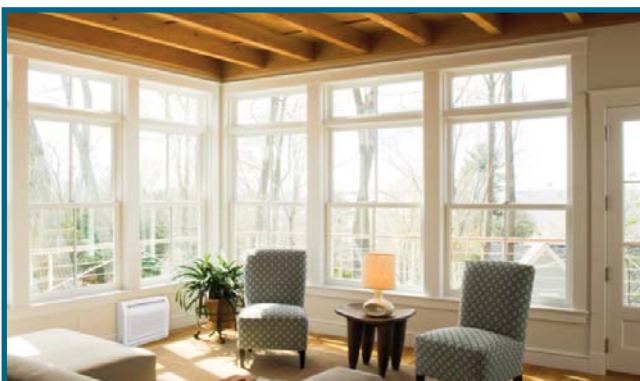
Mounted in a ceiling or in a framed enclosure below a ceiling. They use minimal ductwork and remain very energy efficient.

- Concealed and out of sight
- Look of central air with the efficiency of a mini-split
- 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 Mounted 7, 9, 12, 18 and 24,000 BTUs

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



ASU7, 9, 12RLF1



ASU18, 24RLF



ASU9, 12, 15RLS2+

						Designer Series ⁺		
	ASU7RLF1	ASU9RLF1	ASU12RLF1	ASU18RLF	ASU24RLF	ASU9RLS2	ASU12RLS2	ASU15RLS2
	Heat Pump	Heat Pump	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. (m ³ /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)
	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)
	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)
	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)
	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 lbs. (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 compatible in multi-zone configurations. + ASU9,12,15RLS2 are NOT compatible with AOU18/24/36RLXFZH, AOU36RLXFZ1 or AOU45RLXFZ.

*Height when front panel 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-fine-particle ceramic.

+ 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.



Apple-Catechin Filter

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

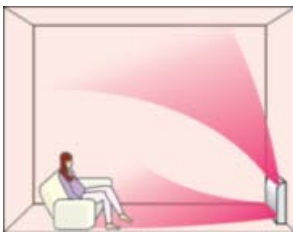
Floor Mount 9, 12, and 15,000 BTUs

AGU9RLF, AGU12RLF, AGU15RLF



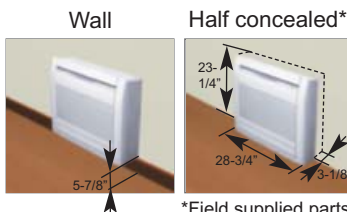
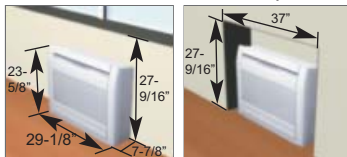
2-Fan and Wide Airflow

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 window Standard concave portion



*Field supplied parts required

Standard Features

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



Designer wireless remote control

	AGU9RLF	AGU12RLF	AGU15RLF
	Heat Pump	Heat Pump	Heat Pump
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. (m³/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 Deodorizing 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 lbs. (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



Slim Duct 7, 9, 12, 18 and 24,000 BTUs

ARU7RLF, 9RLF, ARU12RLF, ARU18RLF, ARU24RLF



ARU7, 9, 12RLF



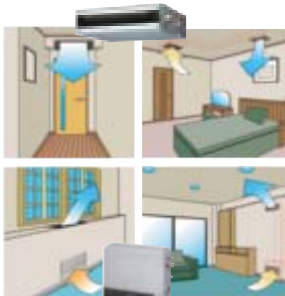
ARU18RLF



ARU24RLF

Flexible Installation

Horizontal or vertical*.



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

Slim Duct

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

Traditional



Slim Duct



Nominal Cooling BTU/h	7,000	9,000	12,000	18,000	24,000
Nominal Heating BTU/h	8,100	10,200	13,500	20,000	27,000
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
Static Pressure In. W. C.	0 ~ 0.36	0 ~ 0.36	0 ~ 0.36	0 ~ 0.36	0 ~ 0.20
Air Circ. C.F.M. (m³/h) Clg/Htg: Hi	323 (550)	353 (600)	383 (650)	554 (940)	783 (1,330)
Medium	288 (490)	324 (550)	353 (600)	518 (880)	730 (1,240)
Low	276 (470)	294 (500)	324 (550)	483 (820)	648 (1,100)
Quiet	259 (440)	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

Heating

Power Use *Rated* (W): Cooling

Heating

Fan Speeds Stage

Air Filter

Connection Method

Conn. Pipe Diameter *Inch*

Net Weight *lbs. (kg)*

Dimensions: Height *Inch (mm)*

Width *Inch (mm)*

Depth *Inch (mm)*

Supply Duct Flange

Dimensions: Height *Inch (mm)*

Width *Inch (mm)*

Depth *Inch (mm)*

Return Duct

Dimensions: Height *Inch (mm)*

Width *Inch (mm)*

Depth *Inch (mm)*

Refrigerant

ARU7RLF	ARU9RLF	ARU12RLF	ARU18RLF	ARU24RLF
Heat Pump	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 <i>Rated</i> (A): Cooling	0.30	0.35	0.44	0.66
Heating	0.30	0.35	0.44	0.66
Power Use <i>Rated</i> (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 <i>Inch</i>	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 <i>lbs. (kg)</i>	41 (19)	41 (19)	50 (23)	59 (27)
Dimensions: Height <i>Inch (mm)</i>	7-25/32 (198)	7-25/32 (198)	7-25/32 (198)	7-25/32 (198)
Width <i>Inch (mm)</i>	27-9/16 (700)	27-9/16 (700)	35-7/16 (900)	43-5/16 (1,100)
Depth <i>Inch (mm)</i>	24-13/32 (620)	24-13/32 (620)	24-13/32 (620)	24-13/32 (620)
Supply Duct Flange	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)
Dimensions: Height <i>Inch (mm)</i>	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)	5-15/16 (151)
Width <i>Inch (mm)</i>	25-19/32 (650)	25-19/32 (650)	33-15/32 (850)	41-11/32 (1,050)
Depth <i>Inch (mm)</i>	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
Return Duct	6 (152)	6 (152)	6 (152)	6 (152)
Dimensions: Height <i>Inch (mm)</i>	6 (152)	6 (152)	6 (152)	6 (152)
Width <i>Inch (mm)</i>	22 (559)	22 (559)	30 (762)	37-3/4 (959)
Depth <i>Inch (mm)</i>	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)	3/4 (19) (Flat)
Refrigerant	R410A	R410A	R410A	R410A

Standard Features

- Dry Mode
- Weekly Timer
- Sleep Timer*
- 24-Hour Timer*
- Minimum Heat Mode*
- Auto Mode
- Quiet Mode
- Auto Restart/Reset
- Auto Changeover
- Condensate Pump
- Fresh Air Intake

*Available only with optional wireless remote control.

Field Supplied Filters

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

	ARU 7RLF	ARU 9RLF	ARU 12RLF	ARU 18RLF	ARU 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" Fiberglass Filter					
SP Loss, in. W.C.	0.04	0.04	0.05	0.04	0.04
Available Static Pressure	0.32	0.32	0.31	0.32	0.16
1" MERV 8 Pleated Filter					
SP Loss, in. W.C.	0.10	0.12	0.14	0.14	0.12
Available Static Pressure	0.26	0.24	0.22	0.22	0.08
2" MERV 8 Pleated Filter					
SP Loss, in. W.C.	0.06	0.07	0.08	0.08	0.07
Available Static Pressure	0.30	0.29	0.28	0.28	0.13

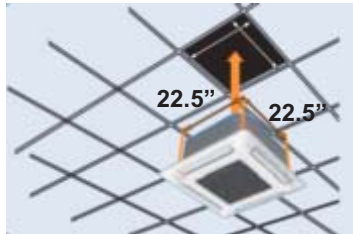
Compact Cassettes 7, 9, 12, and 18,000 BTUs

AUU9RLF, AUU12RLF, AUU18RLF



Easy Installation

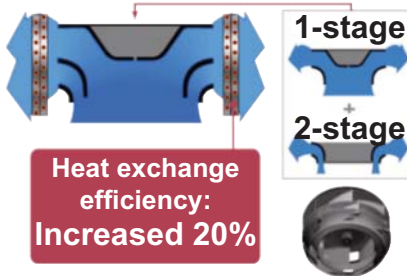
Fits into a standard ceiling tile*.



*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

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



	AUU7RLF	AUU9RLF	AUU12RLF	AUU18RLF
Heat Pump	Heat Pump	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. (m ³ /h): Hi	318 (540)	318 (540)	359 (610)	441 (750) Clg
	Clg or Htg	Clg or Htg	Clg or Htg	471 (800) Htg
	288 (490)	288 (490)	312 (530)	359 (610) Clg
	Clg or Htg	Clg or Htg	Clg or Htg	418 (710) Htg
	259 (440)	259 (440)	277 (470)	306 (520) Clg
Medium	Clg or Htg	Clg or Htg	Clg or Htg	353 (600) Htg
	230 (390)	230 (390)	241 (410)	241 (410) Clg
Low	Clg or Htg	Clg or Htg	Clg or Htg	265 (450) Htg
	230 (390)	230 (390)	241 (410)	265 (450) Clg
Quiet	Clg or Htg	Clg or Htg	Clg or Htg	265 (450) Htg
	230 (390)	230 (390)	241 (410)	265 (450) Clg
Noise Level dB(A) Clg/Htg: Hi	33/34	33/34	37/37	42/44
	31/32	31/32	33/33	37/40
	29/29	29/29	31/31	33/37
Medium	27/27	27/27	28/28	29/30
	27/27	27/27	28/28	29/30
Low	0.15	0.15	0.19	0.30
	0.15	0.15	0.19	0.30
Quiet	0.15	0.15	0.19	0.30
	0.15	0.15	0.19	0.30
Running Current Rated (A): Cooling	18	18	23	39
	18	18	23	39
Heating	18	18	23	39
	18	18	23	39
Power Use Rated/Max (W): Clg	4+auto	4+auto	4+auto	4+auto
	4+auto	4+auto	4+auto	4+auto
Heating	Automatic	Automatic	Automatic	Automatic
	Automatic	Automatic	Automatic	Automatic
Fan Speeds Stage	Washable	Washable	Washable	Washable
	Washable	Washable	Washable	Washable
Air Direction: Vertical	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*
	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*	UTG-CCGF*
Air Filter	Flare	Flare	Flare	Flare
	Flare	Flare	Flare	Flare
Front Grille	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 3/8 dis 1/4	suc 3/8 dis 1/4	suc 3/8 dis 1/4	suc 1/2 dis 1/4
Connection Method	33 (15)	33 (15)	33 (15)	33 (15)
	33 (15)	33 (15)	33 (15)	33 (15)
Conn. Pipe Diameter Inch	9-11/16 (245)	9-11/16 (245)	9-11/16 (245)	9-11/16 (245)
	9-11/16 (245)	9-11/16 (245)	9-11/16 (245)	9-11/16 (245)
Net Weight lbs. (kg)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
Chassis Dim: Height Inch (mm)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
Width Inch (mm)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)	22-7/16 (570)
Depth Inch (mm)	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)
	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)	1-15/16 (49)
Grille Dim: Height Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Width Inch (mm)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
	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)
	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)	27-9/16 (700)
Refrigerant	R410A	R410A	R410A	R410A
	R410A	R410A	R410A	R410A

+ 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.

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



Fresh Air Kit** UTZ-VXAA

Mixes room air then passes through the heat exchanger.



Multi-Zone Series

AOU18RLXFZ, AOU24RLXFZ, AOU36RLXFZ1, AOU45RLXFZ



Contractors can select either an 18, 24, 36 or 45,000 BTU outdoor unit combined with wall mounted, slim duct, compact cassette or floor mount type indoor units. Mix-and-match flexibility of evaporator type and capacity allows you to choose the indoor unit that best fits the application, whether it be hidden or showcased. These systems are ideal for nursing homes, doctor's offices, condominiums, apartments and residences - any place where individual cooling or heating is needed.

- Connect 2 to 5 indoor units, depending on model
- Connect 14,000 to 48,000 BTU
- Energy efficient - up to 19.7 SEER and 10.3 HSPF
- No branch boxes or separation tubes

Fujitsu Multi-Zones Make Sense

- **Why Choose an 18,000 BTU Zoned System?**
A lower BTU dual zone is often the perfect solution to a comfort need. A consumer shouldn't have to purchase a higher priced larger unit when only 14 to 18,000 BTU's are needed.
- **A Tri-Zone 24,000 BTU Unit**
Fujitsu offers a 2-ton system that provides 2 or 3-zone flexibility. By using connectable capacity, this system allows up to three 9,000 BTU units.
- **Pricing Compared to Competition**
Additional outdoor units provides better matched BTU capacity with indoor units. By better matching the outdoor unit to the indoor capacity a better system value is achieved.



Multi Zone Outdoor Units 18, 24, 36 and 45,000 BTUs

AOU18RLXFZ, AOU24RLXFZ,
AOU36RLXFZ1, AOU45RLXFZ



AOU36RLXFZ1

AOU45RLXFZ

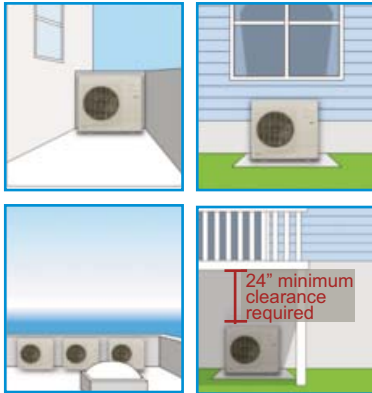
AOU18, 24RLXFZ

AOU 18RLXFZ	AOU 24RLXFZ	AOU 36RLXFZ1	AOU 45RLXFZ
Heat Pump ASU9+ASU9	Heat Pump ASU9+ASU7+ASU7	Heat Pump ASU9 x 4	Heat Pump ASU9 x 5
2	2 to 3	3 to 4	2 to 5
14 to 21,000'	14 to 27,000'	27 to 39,000'	34 to 54,000
18,000/22,000	22,000/24,000	35,200/36,400	45,000/48,000
14 to 115 (-10 to 46)	14 to 115 (-10 to 46)	14 to 115 (-10 to 46)	14 to 115 (-10 to 46)
5 to 75 (-15 to 24)	5 to 75 (-15 to 24)	5 to 75 (-15 to 24)	5 to 75 (-15 to 24)
1.44/1.87	1.76/1.73	3.52/3.00	4.28/3.88
208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
10.0	13.7	20.3	23.8
12.1	16.7	24.6	28.9
15	20	30	30
1,795/1,619	1,942/1,942	2,119/2,237	2,472/2,472
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)	164 (50)
164 (50)	164 (50)	230 (70)	264 (80)
82 (25)	82 (25)	82 (25)	82 (25)
49 (15)	49 (15)	66 (20)	49 (15)
16 (5)	16 (5)	16 (5)	16 (5)
49 (15)	49 (15)	49 (15)	49 (15)
33 (10)	33 (10)	33 (10)	33 (10)
Flare	Flare	Flare	Flare
Liq. 1/4 x 2 Suc. 3/8 x 2	Liq. 1/4 x 3 Suc. 1/2 x 1, 3/8 x 2	Liq. 1/4 x 4 Suc. 1/2 x 1, 3/8 x 3	Liq. 1/4 x 5 Suc. 1/2 x 2, 3/8 x 3
119 (54)	124 (56)	149 (68)	205 (93)
27-9/16	27-9/16	32-11/16	39-5/16
700	700	830	998
35-7/16	35-7/16	35-7/16	38-3/16
900	900	900	970
13	13	13	14-9/16
330	330	330	370
R410A	R410A	R410A	R410A

¹See table for allowed combinations within this connectable capacity range.

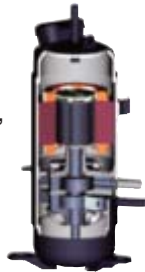
Compact Size

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.

Model	Indoor Unit		Cooling Capacity Btu/h	EER	SEER	Heating Rated Capacity Btu/h		Heating Maximum Capacity Btu/h		COP	HSPF
	Type	Combination	95 F			47 F	17 F	17 F	5 F	47 F	
AOU18RLXFZ	Non-Ducted	9+9	18,000	12.5	18.0	22,000	13,900	16,300	13,900	3.44	9.3
	Ducted	9+9	18,000	12.1	16.0	22,000	13,900	16,300	13,900	3.52	9.0
	Mixed	9+9	18,000	12.3	17.0	22,000	13,900	16,300	13,900	3.48	9.2
	Specific	ASU7+ASU12 and ASU9+ASU12	18,000	12.5	18.0	22,000	13,900	16,300	13,900	3.67	9.0
AOU24RLXFZ	Non-Ducted	9+7+7	22,000	12.5	18.0	24,000	14,100	19,800	16,300	4.04	9.5
	Ducted	9+7+7	22,000	10.6	15.5	24,000	14,100	19,800	16,300	3.42	9.0
	Mixed	9+7+7	22,000	11.6	16.8	24,000	14,100	19,800	16,300	3.74	9.3
AOU36RLXFZ1	Non-Ducted	9+9+9+9	35,200	10.0	18.0	24,000	22,000	32,500	25,400	3.56	9.4
	Ducted	9+9+9+9	35,200	9.0	16.0	24,000	22,000	32,500	25,400	3.32	8.7
	Mixed	9+9+9+9	35,200	9.5	17.0	24,000	22,000	32,500	25,400	3.44	9.1
AOU45RLXFZ	Non-Ducted	9+9+9+9+9	45,000	10.5	19.7	48,000	28,200	36,900	31,500	3.60	10.3
	Ducted	9+9+9+9+9	45,000	9.8	17.7	46,000	27,800	36,900	31,500	3.46	9.3
	Mixed	9+9+9+9+9	45,000	10.2	18.7	47,000	28,000	36,900	31,500	3.53	9.8

Yellow rows represent models that are ENERGY STAR® qualified.

Extra Low Temperature Heating Series (XLTH)

AOU18RLXFZH, AOU24RLXFZH, AOU36RLXFZH



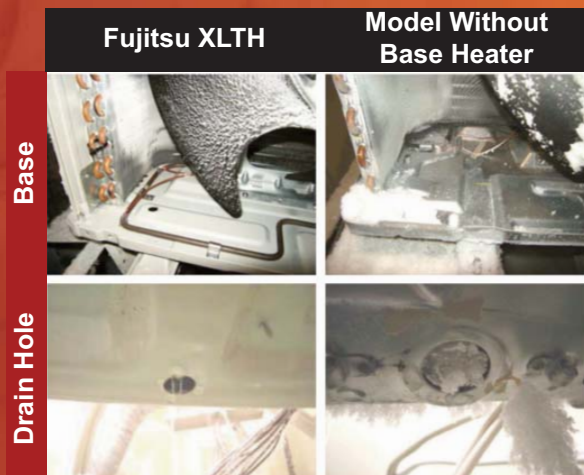
18, 24, or 36,000 BTUs

When the temperature drops you don't want to be left in the cold. It's important to choose a heat pump system rated for the climate you live in. If your system doesn't operate in severe conditions you and your family could be left without any heat at all.

Fujitsu's line of mini-split heat pumps come in different sizes, styles, and rated outdoor temperatures. The XLTH Series features outdoor condensing units engineered to operate in temperatures down to -15°F, lower than any other mini-split available today.

- Connect 2 to 4 indoor units, depending on model
- Connect 14,000 to 39,000 BTU
- eXtra Low Temp Heating down to -15°F outdoor temperatures
- Energy efficient - up to 21.5 SEER and 10.3 HSPF
- No branch boxes or separation tubes

The XLTH Difference



Drain hole is not filled, no freezing of base Freezing where there is no heater

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



XLTH Outdoor Units 18, 24, or 36,000

BTUs



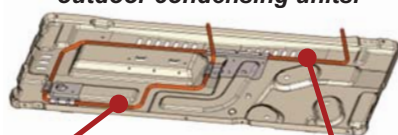
18, 24, or 36000 BTUs



Ambient Heating Temperature of -15°F

Other models may go as low as -5°F, however they do not include a base heater and other advancements found in XLTH models.

The base of Fujitsu's XLTH outdoor condensing units.



Base Heater

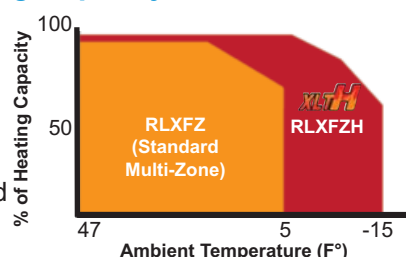
When temperatures reach 36°F, a built-in heater warms the base of the outdoor unit so that condensation doesn't freeze. Without a heater, freezing condensate can cause noise, damage to the fan blade, condenser, and system performance.

Base Drainage Holes

The cultivated base design discharges melted water through many holes located at the bottom of the unit.

Improved Heating Capacity

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



	AOU 18RLXFZH Heat Pump	AOU 24RLXFZH Heat Pump	AOU 36RLXFZH Heat Pump
Connectable Indoor Unit Number	2	2 to 3	2 to 4
Connectable Unit Capacity Class BTU/h	14,000 to 21,000	14,000 to 27,000	27,000 to 39,000
Rated Capacity Cooling/Heating BTU/h	18,000/22,000	22,000/25,000	35,200/36,400
Clg. Operating Range °F(°C)	14 to 115 (-10 to 46)	14 to 115 (-10 to 46)	14 to 115 (-10 to 46)
Htg. Operating Range °F(°C)	-15 to 75 (-26 to 24)	-15 to 75 (-26 to 24)	-15 to 75 (-26 to 24)
Input Power: Clg/Htg Rated kW*	1.33/1.70	1.65/1.81	2.70/2.67
Voltage/Frequency/Phase	208-230/60/1	208-230/60/1	208-230/60/1
Current: Total Max. (A)	16.4	20.8	26.0
Minimum Circuit Ampacity (A)	19.7	25.1	31.5
MAX.CRT.BKR (A)	20	30	40
Outdoor Fan Airflow CFM (Clg/Htg)	1,648/1,648	1,942/1,942	2,472/2,472
Fan: Type x Quantity	Propeller x 1	Propeller x 1	Propeller x 1
Sound Pressure Level Cooling dB(A)	48	50	53
Sound Pressure Level Heating dB(A)	50	52	55
Pre-Charge Length Total Ft (m)	98 (30)	98 (30)	164 (50)
Max. Length Total Ft (m)	164 (50)	230 (70)	230 (70)
Max. Length Each Ft (m)	82 (25)	82 (25)	82 (25)
Min. Length Total Ft (m)	49 (15)	49 (15)	49 (15)
Min. Length Each Ft (m)	16 (5)	16 (5)	16 (5)
Max. Pipe Height Difference Between Outdoor Unit & Farthest Indoor Ft (m)	49 (15)	49 (15)	49 (15)
Max. Pipe Height Difference Between Indoor Units Ft (m)	33 (10)	33 (10)	33 (10)
Connection Method	Flare	Flare	Flare
Conn. Pipe Diameter Inch	Liq. 1/4 x 2 Suc. 3/8 x 2	Liq. 1/4 x 3 Suc. 1/2 x 1, 3/8 x 2	Liq. 1/4 x 4 Suc. 1/2 x 1, 3/8 x 3
Net Weight lbs. (kg)	134 (61)	146 (66)	205 (93)
Dimensions: Height Inch	32-11/16	32-11/16	39-5/16
mm	830	830	998
Width Inch	35-7/16	35-7/16	38-3/16
mm	900	900	970
Depth Inch	13	13	14-9/16
mm	330	330	370
Refrigerant	R410A	R410A	R410A

Nominal Capacities, SEER and HSPF Ratings

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

Model	Indoor Unit		Cooling Capacity Btu/h	EER	SEER	Heating Rated Capacity Btu/h		Heating Maximum Capacity Btu/h		COP	HSPF
	Type	Combination				47 F	17 F	17 F	5 F		
AOU18RLXFZH	Non-Ducted	9+9	18,000	13.5	21.5	22,000	14,200	23,600	22,000	3.79	10.3
	Ducted	9+9	18,000	12.4	19.0	22,000	14,200	23,600	22,000	3.60	9.0
	Mixed	9+9	18,000	13.0	20.3	22,000	14,200	23,600	22,000	3.70	9.7
AOU24RLXFZH	Non-Ducted	9+7+7	22,000	13.3	20.0	25,000	15,400	26,400	25,000	4.04	10.3
	Ducted	9+7+7	22,000	12.1	18.0	25,000	15,400	26,400	25,000	3.87	9.0
	Mixed	9+7+7	22,000	12.7	19.0	25,000	15,400	26,400	25,000	3.96	9.7
AOU36RLXFZH	Non-Ducted	9+9+9+9	35,200	13.0	20.0	36,400	21,400	39,300	36,400	4.00	10.3
	Ducted	9+9+9+9	35,200	12.0	18.0	36,400	21,400	39,300	36,400	3.88	9.3
	Mixed	9+9+9+9	35,200	12.5	19.0	36,400	21,400	39,300	36,400	3.93	9.8

Yellow rows represent models that are ENERGY STAR® qualified.

Hybrid Flex Inverter Series (HFI)

AOU48RLXFZ1



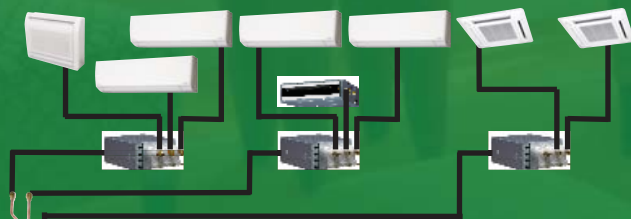
A **Hybrid** system is the blending of a complex VRF system with the simplicity of a multi-zone system to create a hybrid solution that shares the best of both systems.

Flex provides 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.

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.

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.

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



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

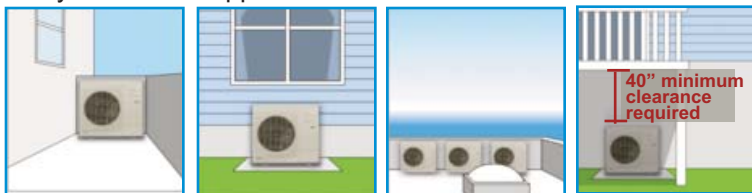
18k BTU/h + 24 k BTU/h = 42k BTU/h ..OK
12k BTU/h + 24 k BTU/h = 36k BTU/h ..Not Allowed (below 80%)

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.



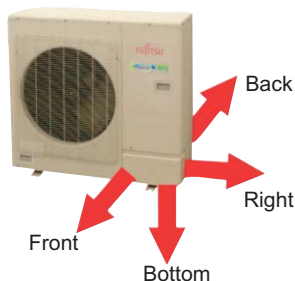
Self Diagnostic Feature

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



Piping Flexibility

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



DC Twin Rotary Compressor

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



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
MAX.CRT.BKR (A)	40
Outdoor Fan Speed RPM (Clg/Htg)	890/910
Fan: Type x Quantity	Propeller x 1
Fan Motor Output W	111
Sound Pressure Level Cooling dB(A)	56
Sound Pressure Level Heating dB(A)	58
Max. Pipe Length Total Ft (m)	377 (115)
Max. Pipe Length Between Box & Farthest Indoor Unit Ft (m)	49 (15)
Max. Pipe Height Difference Between Outdoor Unit & Branch Box Ft (m)	98 (30)
Max. Pipe Height Difference Between Indoor Units Ft (m)	49 (15)
Max. Pipe Height Difference Between Outdoor Unit & Farthest Indoor Ft (m)	98 (30)
Connection Method	Flare
Conn. Pipe Diameter Inch	3/8 (Liq.) 5/8 (Suc.)
Net Weight lbs. (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
37*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



Branch boxes and separation tube assemblies are **only** used with outdoor model AOU48RLXFZ1.



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

*As long as the total system nominal capacity is between 39,000 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 *lbs. (kg)*

Conn. Pipe Diameter - Main *Inch*

Conn. Pipe Diameter - Branch *Inch*

Connection Method

Connection Adapter Included *Inch*

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

Allowed Branch Box Mounting Direction

Threaded Rod Mount



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

Horizontal Wall Mount



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

Vertical Wall Mount



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

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.

Allowed Mounting Positions



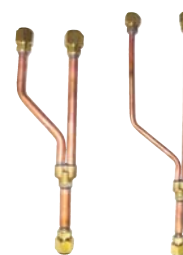
Dimensions in. (mm)	
Net (HxWxD)	8-11/16 x 32 x 17-7/8 (220 x 813 x 454)
Gross (HxWxD)	3-15/16 x 33-11/16 x 20-5/16 (100 x 880 x 515)
Weight lbs. (kg)	
Net Branch Box cover only	22 (10)
Net Branch Box + Cover	44.1(20)
Gross	30.9 (14)

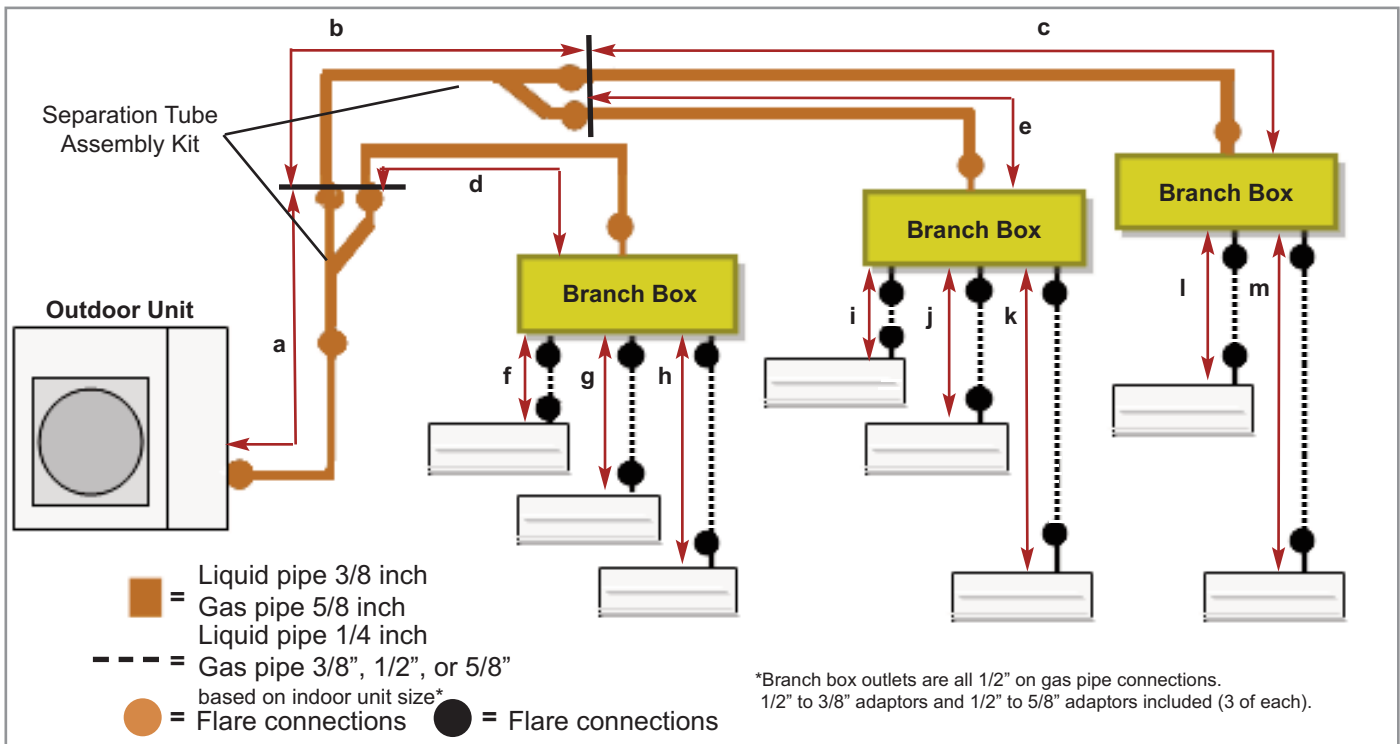


Separation Tube Assembly Kit

UTP-SX248A

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

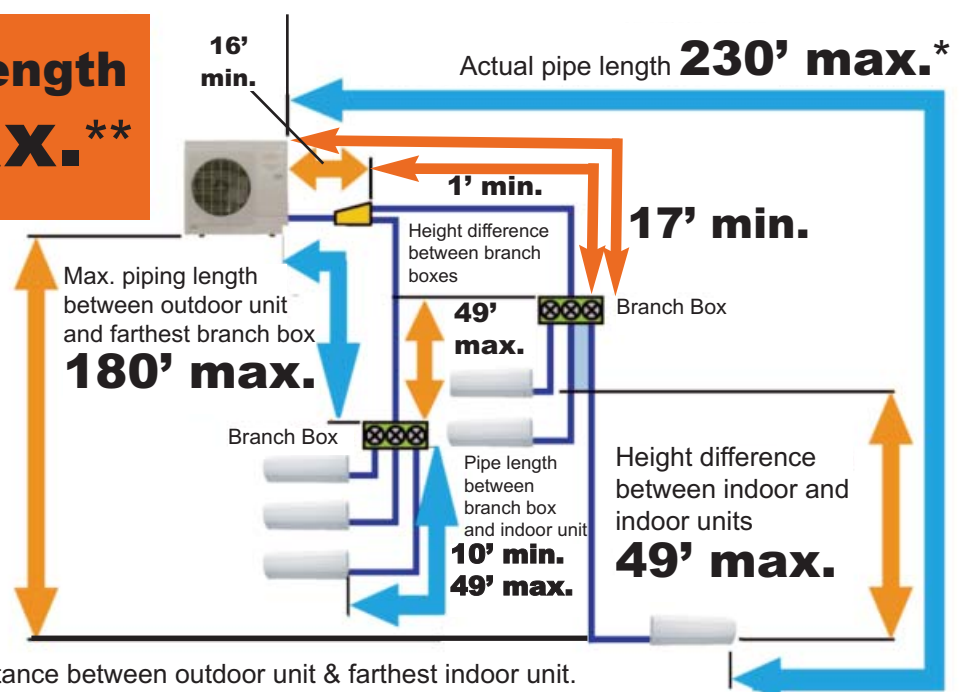




		Liquid pipe	Adaptor	Gas pipe
Branch Box to Indoor	7,000 BTU	1/4 inch	included	3/8 inch
	9,000 BTU		included	
	12,000 BTU		included	
	18,000 BTU		n/a	1/2 inch
	24,000 BTU		included	5/8 inch
Calculate Refrigerant Charge Factory Charge 7.6 lb (3.45 kg) Unit pre-charged to 0 feet	Pipe Diameter	Location	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

**Total Pipe Length
377' max.****

Height difference between
outdoor and indoor units
98' max.



* Distance between outdoor unit & farthest indoor unit.

** Total liquid pipe or total gas pipe.

Allowable Combinations for AOU18RLXFZ,

AOU18RLXFZH, AOU24RLXFZ, AOU24RLXFZH, AOU36RLXFZ1, AOU45RLXFZ



XLTH
18, 24, 36,000 BTUs



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



ARU7RLF
ARU9RLF
ARU12RLF
ARU18RLF
ARU24RLF



AUU7RLF
AUU9RLF
AUU12RLF
AUU18RLF



AGU9RLF
AGU12RLF
AGU15RLF



AOU18RLXFZ
AOU18RLXFZH
AOU24RLXFZ
AOU24RLXFZH
AOU36RLXFZ1
AOU36RLXFZH
AOU45RLXFZ

BTU Capacity

7,000

9,000

12,000

15,000

18,000

24,000

AOU18RLXFZ / AOU18RLXFZH

2 INDOOR UNITS	7 7	14
	7 9	16
	7 12	19
	9 9	18
	9 12	21

AOU24RLXFZ / AOU24RLXFZH

3 INDOOR UNITS	7 7 -	14
	7 9 -	16
	7 12 -	19
	7 15	22
	7 18	25
	9 9 -	18
	9 12	21
	9 15	24
	9 18	27
	12 12	24
	12 15	27
	7 7 7	21
	7 7 9	23
	7 7 12	26
	7 9 9	25
	9 9 9	27

AOU36RLXFZ1

4 INDOOR UNITS	18*18*	36
	7 7 15 -	29
	7 7 18 -	32
	7 7 24	38
	7 9 12 -	28
	7 9 15 -	31
	7 9 18	34
	7 12 12 -	31
	7 12 15	34
	7 12 18	37
	9 9 9 -	27
	9 9 12 -	30
	9 9 15	33
	9 9 18	37
	9 12 12	33
	9 12 15	36
	9 12 18	39
	12 12 12	36

AOU36RLXFZ1

4 INDOOR UNITS	12 12 15	39
	7 7 7 7	28
	7 7 7 9	30
	7 7 7 12	33
	7 7 7 15	36
	7 7 7 18**	39
	7 7 9 9	32
	7 7 9 12	35
	7 7 9 15	38
	7 7 12 12	38
	7 9 9 9	34
	7 9 9 12	37
	9 9 9 9	36

AOU45RLXFZ

2	18 18	36
	18 24	42
	24 24	48
3 INDOOR UNITS	7 7 24	38
	7 9 18	34
	7 9 24	40
	7 12 18	37
	7 12 24	43
	7 15 15	37
	7 15 18	40
	7 15 24	46
	7 18 18	43
	7 18 24	49
	9 9 18	36
	9 9 24	42
	9 12 15	36
	9 12 18	39
	9 12 24	45
	9 15 15	39
	9 15 18	42
	9 15 24	48
	9 18 18	45
	9 18 24	51
	12 12 12	36
	12 12 15	39
	12 12 18	42
	12 12 24	48

3 INDOOR UNITS

12 15 15	42
12 15 18	45
12 15 24	51
12 18 18	48
12 18 24	54
15 15 15	45
15 15 18	48
15 15 24	54
15 18 18	51
18 18 18	54

4 INDOOR UNITS

7 7 7 15	36
7 7 7 18	39
7 7 7 24	45
7 7 9 12	35
7 7 9 15	38
7 7 9 18	41
7 7 9 24	47
7 7 12 12	38
7 7 12 15	41
7 7 12 18	44
7 7 12 24	50
7 7 15 15	44
7 7 15 18	47
7 7 15 24	53
7 7 18 18	50
7 9 9 9	34
7 9 9 12	37
7 9 9 15	39
7 9 9 18	43
7 9 9 24	49
7 9 12 12	40
7 9 12 15	43
7 9 12 18	46
7 9 12 24	52
7 9 15 15	44
7 9 15 18	48
7 9 18 18	52
7 12 12 12	43
7 12 12 15	46
7 12 12 18	49
7 12 15 15	49

4 INDOOR UNITS

7 12 15 18	52
7 15 15 15	52
9 9 9 9	36
9 9 9 12	39
9 9 9 15	42
9 9 9 18	45
9 9 9 24	51
9 9 12 12	42
9 9 12 15	44
9 9 12 18	48
9 9 12 24	54
9 9 15 15	48
9 9 15 18	51
9 9 18 18	54
9 12 12 12	45
9 12 12 15	48
9 12 12 18	51
9 12 15 15	51
9 12 15 18	54
12 12 12 12	48
12 12 12 15	51
12 12 12 18	54
12 12 15 15	54

5 INDOOR UNITS

7 7 7 7 7	35
7 7 7 7 9	37
7 7 7 7 12	40
7 7 7 7 15	43
7 7 7 7 18	46
7 7 7 7 24	52
7 7 7 9 9	39
7 7 7 9 12	42
7 7 7 9 15	45
7 7 7 9 18	48
7 7 7 9 24	54
7 7 7 12 12	45
7 7 7 12 15	48
7 7 7 12 18	51
7 7 7 15 15	51
7 7 7 15 18	54
7 7 9 9 9	41
7 7 9 9 12	44

+ ASU9,12,15RLS2 are NOT compatible with AOU18/24RLXFZH or AOU36RLXFZ1. * 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



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



ARU7RLF
ARU9RLF
ARU12RLF
ARU18RLF
ARU24RLF



AUU7RLF
AUU9RLF
AUU12RLF
AUU18RLF



AGU9RLF
AGU12RLF
AGU15RLF



AOU48RLXFZ1

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

5 INDOOR UNITS	7 7 9 9 15	47	3 INDOOR UNITS	12 12 24	48	4 INDOOR UNITS	7 12 12 15	45	4 INDOOR UNITS	12 12 12 24	60
	7 7 9 9 18	50		12 15 15	40		7 12 12 18	49		12 12 15 15	52
	7 7 9 12 12	47		12 15 18	44		7 12 12 24	55		12 12 15 18	56
	7 7 9 12 15	50		12 15 24	50		7 12 15 15	47		12 12 15 24	62
	7 7 9 12 18	53		12 18 18	48		7 12 15 18	51		12 15 18 18	60
	7 7 9 15 15	53		12 18 24	54		7 12 15 24	57		12 15 15 15	54
	7 7 12 12 12	50		12 24 24	60		7 12 18 18	55		12 15 15 18	58
	7 7 12 12 15	53		15 15 15	42		7 12 18 24	61		12 15 18 18	62
	7 9 9 9 9	43		15 15 18	46		7 15 15 15	49		15 15 15 15	56
	7 9 9 9 12	46		15 15 24	52		7 15 15 18	53		15 15 15 18	60
	7 9 9 9 15	49		15 18 18	50		7 15 15 24	59		7 7 7 7 12	40
	7 9 9 9 18	52		15 18 24	56		7 15 18 18	57		7 7 7 7 15	42
	7 9 9 12 12	49		15 24 24	62		7 18 18 18	61		7 7 7 7 18	46
	7 9 9 12 15	52		18 18 18	54		9 9 9 12	39		7 7 7 7 24	52
	7 9 12 12 12	52		18 18 24	60		9 9 9 15	41		7 7 7 9 9	39
AOU48RLXFZ1	9 9 9 9 9	45	4 INDOOR UNITS	7 7 7 18	39	5 INDOOR UNITS	9 9 9 18	45		7 7 7 9 12	42
	9 9 9 9 12	48		7 7 7 24	45		9 9 9 24	51		7 7 7 9 15	44
	9 9 9 9 15	51		7 7 9 18	41		9 9 12 12	42		7 7 7 9 18	48
	9 9 9 9 18	54		7 7 9 24	47		9 9 12 15	44		7 7 7 9 24	54
	9 9 9 12 12	51		7 7 12 15	40		9 9 12 18	48		7 7 7 12 12	45
	9 9 9 12 15	54		7 7 12 18	44		9 9 12 24	54		7 7 7 12 15	47
	9 9 12 12 12	54		7 7 12 24	50		9 9 15 15	46		7 7 7 12 18	51
				7 7 15 15	42		9 9 15 18	50		7 7 7 12 24	57
				7 7 15 18	46		9 9 15 24	56		7 7 7 15 15	49
				7 7 15 24	52		9 9 18 18	54		7 7 7 15 18	53
				7 7 18 18	50		9 9 18 24	60		7 7 7 15 24	59
3 INDOOR UNITS	7 9 24	40	4 INDOOR UNITS	7 7 18 24	56		9 12 12 12	45		7 7 7 18 18	57
	7 12 24	43		7 7 24 24	62		9 12 12 15	47		7 7 9 9 9	41
	7 15 18	39		7 9 9 15	39		9 12 12 18	51		7 7 9 9 12	44
	7 15 24	45		7 9 9 18	43		9 12 12 24	57		7 7 9 9 15	46
	7 18 18	43		7 9 9 24	49		9 12 15 15	49		7 7 9 9 18	50
	7 18 24	49		7 9 12 12	40		9 12 15 18	53		7 7 9 9 24	56
	7 24 24	55		7 9 12 15	42		9 12 15 24	59		7 7 9 12 12	47
	9 9 24	42		7 9 12 18	46		9 12 18 18	57		7 7 9 12 15	49
	9 12 18	39		7 9 12 24	52		9 15 15 15	51		7 7 9 12 18	53
	9 12 24	45		7 9 15 15	44		9 15 15 18	55		7 7 9 12 24	59
	9 15 18	41		7 9 15 18	48		9 15 15 24	61		7 7 9 15 15	51
	9 15 24	47		7 9 15 24	54		9 15 18 18	59		7 7 9 15 18	55
	9 18 18	45		7 9 18 18	52		12 12 12 12	48		7 7 9 15 24	61
	9 18 24	51		7 9 18 24	58		12 12 12 15	50		7 7 9 18 18	59
	9 24 24	57		7 12 12 12	43		12 12 12 18	54		7 7 12 12 12	50
	12 12 18	42									

Allowable Combinations for AOU48RLXFZ1



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



ARU7RLF
ARU9RLF
ARU12RLF
ARU18RLF
ARU24RLF



AUU7RLF
AUU9RLF
AUU12RLF
AUU18RLF



AGU9RLF
AGU12RLF
AGU15RLF























AOU48RLXFZ1

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

5 INDOOR UNITS	7	7	12	12	15		52
	7	7	12	12	18		56
	7	7	12	12	24		62
	7	7	12	15	15		54
	7	7	12	15	18		58
	7	7	12	18	18		62
	7	7	15	15	15		56
	7	7	15	15	18		60
	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
7	12	12	12	12		55	
7	12	12	12	15		57	
7	12	12	12	18		61	
7	12	12	15	15		59	
7	12	12	15	15		61	
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	15		53	
9	9	9	12	18		57	
9	9	9	15	15		55	
9	9	9	15	18		59	
5 INDOOR UNITS	9	9	12	12	12		54
	9	9	12	12	15		56
	9	9	12	12	18		60
	9	9	12	15	15		58
	9	9	12	15	18		62
	9	9	15	15	15		60
	9	12	12	12	12		57
	9	12	12	12	15		59
	9	12	12	15	15		61
	12	12	12	12	12		60
	12	12	12	12	15		62
	7	7	7	7	7		42
	7	7	7	7	9		44
	7	7	7	7	12		47
	7	7	7	7	15		49
	7	7	7	7	18		53
	7	7	7	7	24		59
	7	7	7	9	9		46
	7	7	7	9	12		49
	7	7	7	9	15		51
	7	7	7	9	18		55
	7	7	7	9	24		61
	7	7	7	12	12		52
	7	7	7	12	15		54
	7	7	7	12	18		58
	7	7	7	15	15		56
	7	7	7	15	18		60
7	7	7	9	9		48	
7	7	7	9	12		51	
7	7	7	9	15		53	
7	7	7	9	18		57	
7	7	7	9	24		62	
7	7	7	12	12		54	
7	7	7	12	15		56	
7	7	7	12	18		60	
7	7	7	15	15		58	
7	7	7	15	18		62	
7	7	7	12	12		57	
7	7	7	12	15		59	
7	7	7	12	18		61	
7	7	7	15	15		61	
7	7	7	15	18		62	
7	7	7	12	12		57	
7	7	7	12	15		59	
7	7	7	12	18		61	
7	7	7	15	15		61	
7	7	7	15	18		62	
7	7	7	12	12		57	
7	7	7	12	15		59	
7	7	7	12	18		61	
7	7	7	15	15		61	
7	7	7	15	18		62	
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7	7	7	15	18		62	
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7	7	7	12	15		59	
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7	7	7	15	18		62	
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7	7	7	15	15		61	
7	7	7	15	18		62	
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7	7	7	15	15		61	
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7	7	7	15	18		62	
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7	7	7	12	15		59	
7	7	7	12	18		61	
7	7	7	15	15		61	
7	7	7	15	18		62	
7	7	7	12	12		57	
7	7	7	12	15		59	
7	7	7	12	18		61	
7	7	7	15	15		61	
7	7	7	15	18		62	
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7	7	7	12	18		61	
7	7	7	15	15		61	
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7	7	7	12	15		59	
7	7	7	12	18		61	
7	7	7	15	15		61	
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7	7	7	15	18		62	
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7	7	7	12	12		57	
7	7	7	12	15		59	
7	7	7	12	18		61	
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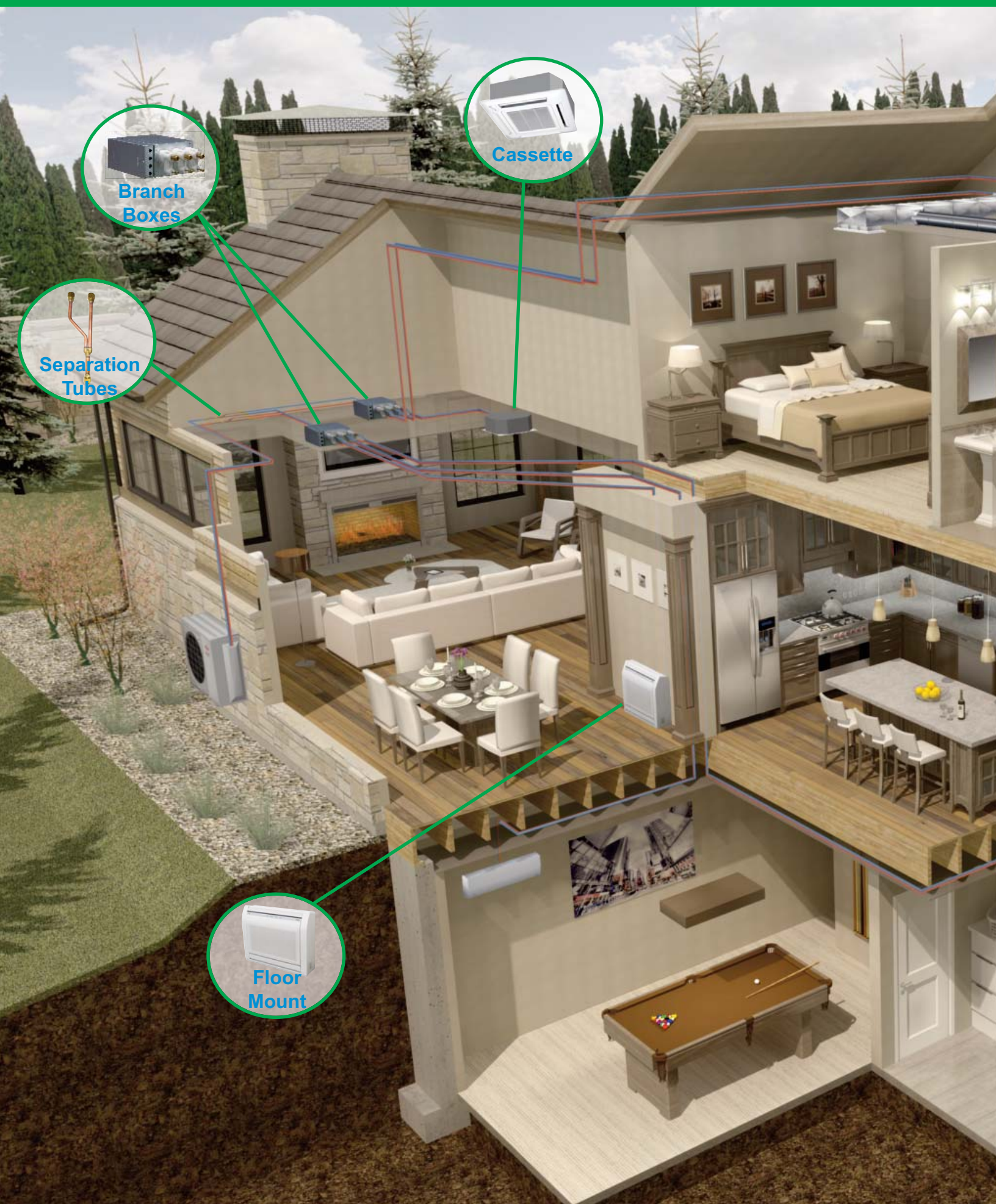
Accessory Compatibility

				Small Wall (RLF1 - 7, 9, 12k BTU)	Designer Wall* RLS2 - 9, 12, 15k BTU)	Large Wall (18, 24k BTU)	Cassette	Slim Duct	Floor Mount AOU45RLXFZ	AOU48RLXFZ1
Remote Controls										
UTY-RNNUM	Wired Remote Control		Lock function provides full feature access to property managers, building owners, and facility maintenance, as well as providing basic comfort features to tenants, employees, and teachers.	• ¹	• ²	•			•	
UTY-RSNUM	Simple Remote Control		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.	• ¹	• ²	•	•	•	•	
UTY-LNHUM	Wireless Remote Control		For spaces where there is just no place to mount the wired remote or where wireless operation is preferred.				•			
UTY-DMMUM	Central Remote Control		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.						•	•
UTY-XSZX	Remote Sensor		Wall mounted room temperature sensor for slim duct models. Replaces room temperature sensor in the return when installed while still allowing for temperature correction.					•		
UTY-LRHUM	Receiver Unit		For slim duct models. Includes a wireless remote control.					•		
Interface Kits										
UTY-XWZX	Dry Contact Wire Kit		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.	• ¹	• ²		•	•		
UTY-XWZXZ5	Dry Contact Wire Kit			• ¹	• ²				•	
UTY-TWBXF1	Interface Kit ¹		Required to connect ASU9RLS2, 12RLS2, and 15RLS2 to Wired Remote UTY-RNNUM, Dry Contact Wire Kit UTY-XWZXZ5, and Simple Remote Control UTY-RSNUM.		•					
UTY-XCBXZ2	Interface Kit ²		Required to connect ASU7RLF1, 9RLF1, and 12RLF1 to Wired Remote UTY-RNNUM, Dry Contact Wire Kit UTY-XWZX, and Simple Remote Control UTY-RSNUM.	•						
UTD-ECS5A	Slim Duct Connector Kit		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.					•		
UTY-XWZXZ3	Outdoor Unit Input/Output Connector		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.							•
UTY-XWZXZ4	Outdoor Unit Base Heater Connector		Used to hook up an AUX base pan heater to the outdoor unit. Heater is field supply.							•
Fresh Air Intake Kits										
UTZ-KXGC	High Humidity Insulation Kit		Additional insulation for compact cassette units, which may be needed when they are installed in high humidity areas.				•			
UTR-YDZB	Air Outlet Shutter Plate		In a 3-way air flow configuration an Air Outlet Shutter Plate kit is required to block air flow of 1 louver.				•			
UTZ-VXAA	Fresh Air Intake Kit		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.				•			
Miscellaneous										
K3PST	3-Pole Single Throw Safety Switch		For use where code requires a disconnect at the indoor unit.	•	•	•	•	•	•	
K9R410A55	R410A Swivel Adapter		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.	•	•	•	•	•	•	
K9FZ1818	18+18 Combo Fittings Kit <i>for AOU36RLXFZ</i>		Allows two 18,000 BTU indoor units to be used on an outdoor AOU36RLXFZ1. 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".			•				
UTD-GXSA-W	Auto Louver Grille Kit <i>(for ARU9, 12)</i>		Auto Louver provides comfortable airflow and blends in with various interiors. Grille can be connected either directly to indoor unit or through the rectangular duct. <i>* Only compatible with ARU models with serial numbers greater than 2000.</i>					•		
UTD-GXSB-W	Auto Louver Grille Kit <i>(for ARU18)</i>							•		
UTD-GXSC-W	Auto Louver Grille Kit <i>(for ARU24)</i>							•		

¹ Wall mounted ASU7, 9, and 12RLF1 require accessory interface kit #UTY-XCBXZ2 in order to connect these devices to them.

² Wall mounted ASU9, 12, and 15RLS2 require accessory interface kit #UTY-TWBXF1 in order to connect these devices to them.

* ASU9,12,15RLS2 are NOT compatible with AOU18/24/36RLXFZ, AOU36RLXFZ1 or AOU45RLXFZ.





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

***Cool or heat one
room, a few rooms or
an entire home.***



Where can mini-splits be used?

- Bars
- Oil rigs
- Schools
- Car washes
- Warehouses
- Nursing homes
- Small offices
- Older homes
- Restaurants
- Computer rooms
- Hotels and motels
- ATM vestibules
- Convenience stores
- Fast food chains
- Fire houses
- Police stations
- Sunrooms
- New construction
- Places of worship
- Medical facilities

Just about any place that requires comfort!

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