AIRSTAGE

FUJITSU

Variable Refrigerant Flow Systems

AIRSTAGE VRF

Heat Pump and Heat Recovery



FUJITSU GENERAL AMERICA, INC

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AIRSTAGE

Variable Refrigerant Flow System

3-Phase VRF for Small and Large Buildings

- Extensive lineup from 6 to 36 tons
- Connectable capacity ratio up to 150%
- 58 different indoor units available in 13 styles
- Up to 64 indoor units for 24 Ton and larger systems
- Three outdoor V-Series units may be combined with Branch Kits to create up to 36-ton systems
- 10-Year Parts and Compressor Warranty See Warranty Statement for details
- Extensive training available for for Engineers, Architects, Contractors and Distributors

High Efficiency & Reliability

Outdoor Units

J-IIIL



6, 8 and 10 tons
Three-phase

V-Series



6, 8 Ton
Three-phase

10 Ton
Three-phase

12, 14, 16 Ton
Three-phase

A World Leader in Heating and Cooling Solutions

Support Team

Fujitsu features an expert team of Regional Sales Managers and Sales Engineers located around North America to provide customer support. Additionally, blended Rep Agencies support Plan and Spec Consulting Engineers, as well as wholesale distribution, to provide product knowledge and support. We pride ourselves in having one of the most educated and qualified teams in the HVAC industry.



Technical Support

The Fujitsu support experience is top notch! We have highly trained and field-experienced technicians on staff as well as strategically placed, Regional Support Specialists (RSS) to provide local support. The service team works closely with Quality, Product, and R&D team members in the US and overseas for new product innovation and improvement.
Service department enhancements include:

- Enhanced VIP call routing / lower wait times.
- Mobile Technician app: troubleshoot error codes, thermistors and pressure sensors
- 24-hour response on Servicehvac@fujitsugeneral.com
- Zendesk guide for technical information
- Zendesk chat

Research & Development

The Headquarters-R&D Center (Japan) is equipped with a wide range of testing equipment envisioning a variety of operating conditions. This includes a testing tower with a 197ft.(60m) height difference for testing systems for tall buildings. We provide high quality & reliable products that meet the customers' needs from all over the world through this advanced R&D Center and 6 factories based in China and Thailand.



R&D Center & Technology Research Buildings



North America Corporate HQ and Training Center
Fujitsu General America (Pine Brook, NJ, USA)



AIRSTAGE Innovation and Learning Center
(Addison, TX, USA)



AIRSTAGE Innovation and Learning Center West
(Martinez, CA, USA)



JAPAN Head Office, R&D Center and 60 m Height Difference Testing Tower (Japan)

Overseas Manufacturing Companies



Fujitsu General (Shanghai) Co., Ltd. (China)



F.G.L.S. Electric Co., Ltd. (China)



Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd. (China)



FGA (Thailand) Co., Ltd. (Thailand)



Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. (Thailand)



Fujitsu General (Thailand) Co., Ltd. (Thailand) FACTORY-2



Fujitsu General (Thailand) Co., Ltd. (Thailand)



TCFG Compressor (Thailand) Co.,Ltd. (Thailand)

OUTDOOR UNITS LINEUP

3-PHASE / 208-230V	J-IIIL		
J-SERIES	6-ton	8-ton	10-ton
	 AOU72RLAVL	 AOU96RLAVL	 AOU120RLAVL

3-PHASE POWER SOURCE: *B = 208-230V, *C=460V				
VU-V HEAT PUMP / HEAT RECOVERY	72,000 BTU/h (6-tons)	96,000 BTU/h (8-tons)	120,000 BTU/h (10-tons)	144,000 BTU/h (12-tons)	168,000 BTU/h (14-tons)
	 AOUA72ULBV5 AOUA72ULCV5	 AOUA96ULBV5 AOUA96ULCV5	 AOUA120ULBV5 AOUA120ULCV5	 AOUA144ULBV5 AOUA144ULCV5	 AOUA168ULBV5 AOUA168ULCV5
	264,000 BTU/h (22-tons)	288,000 BTU/h (24-tons)	312,000 BTU/h (26-tons)	336,000 BTU/h (28-tons)	360,000 BTU/h (30-tons)
	 AOUA264ULBVG5 AOUA264ULCVG5	 AOUA288ULBVG5 AOUA288ULCVG5	 AOUA312ULBVG5 AOUA312ULCVG5	 AOUA336ULBVG5 AOUA336ULCVG5	 AOUA360ULBVG5 AOUA360ULCVG5

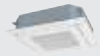
INDOOR UNITS LINEUP

Capacity range (BTU/h)	4,000	7,000	9,000	12,000	14,000	18,000
Compact Cassette[1]	 AUUA4TLAV2	 AUUA7TLAV2	 AUUA9TLAV2	 AUUA12TLAV2	 AUUA14TLAV2	 AUUA18TLAV2
Large Circular Flow Cassette[2]				 AUUB12TLAV2	 AUUB14TLAV2	 AUUB18TLAV2
Mini-Duct	 ARUL4TLAV2					
Slim Compact Duct		 ARUL7TLAV2	 ARUL9TLAV2	 ARUL12TLAV2	 ARUL14TLAV2	 ARUL18TLAV2
Medium Static Pressure Duct						
High Static Pressure Duct						
Multi-Position Air Handling Unit				 ARUX12TLAV2		 ARUX18TLAV2
Floor Mount	 AGUA4TLAV2	 AGUA7TLAV2	 AGUA9TLAV2	 AGUA12TLAV2	 AGUA14TLAV2	
Floor/Ceiling				 ABUA12TLAV2	 ABUA14TLAV2	 ABUA18TLAV2
Ceiling						
Compact Wall Mount	 ASUA4TLAV2	 ASUA7TLVA2	ASUA9TLAV2	ASUA12TLVA2	ASUA14TLAV2	
Wall Mounted						ASUB18TLAV2

Outdoor Air Unit

Airflow Rate CFM (m3/h)		636 (1,080)	989 (1,680)	1,236 (2,100)
Outdoor Air Unit		AAUA48TLAV[3]	AAUA72TLAV[4]	AAUA96TLAV[4]

VU-V HEAT PUMP / HEAT RECOVERY			
192,000 BTU/h (16-tons)	216,000 BTU/h (18-tons)	240,000 BTU/h (20-tons)
		
AOUA192ULBV5 AOUA192ULCV5	AOUA216ULBVG5 AOUA216ULCVG5	AOUA240ULBVG5 AOUA240ULCVG5
384,000 BTU/h (32-tons)	408,000 BTU/h (34-tons)	432,000 BTU/h (36-tons)
		
AOUA384ULBVG5 AOUA384ULCVG5	AOUA408ULBVG5 AOUA408ULCVG5	AOUA432ULBVG5 AOUA432ULCVG5

24,000	30,000	36,000	48,000	60,000	72,000	96,000
 AUUA24TLAV2						
 AUUB24TLAV2	 AUUB30TLAV2	 AUUB36TLAV2	 AUUB48TLAV2			
 ARUM24TLAV2	 ARUMTLAV2	 ARUM36TLAV2				
		 ARUH36TLAV2	 ARUH48TLAV2	 ARUH60TLAV2	 ARUH72TLAV2	 ARUH96TLAV2
 ARUX24TLAV2	 ARUX30TLAV2	 ARUX36TLAV2	 ARUX48TLAV2	 ARUX60TLAV2		
 ABUA24TLAV2						
	 ABUA30TLAV2	 ABUA36TLAV2				
 ASUB24TLAV2	 ASUA30TLAV2	 ASUA36TLAV2				

1. Compact Cassette Grille UTG-CCGVG sold separately. Must order one with each Compact Cassette.
2. Cassette Grille UTG-LCGVCW (White) or UTG-LCGVCB (Black) sold separately. Must order one with each Cassette.
3. J-Series compatibility is dependent on outdoor unit capacity.

Heat Pump

3 Phase, 208-230V
6, 8, 10 Ton

AIRSTAGE J-IIIL

The industry-leading AIRSTAGE J-IIIL system is perfect for multi-family, large residential, light commercial and commercial buildings. The unique and compact design makes the outdoor unit ideal for buildings with limited installation space. Up to 30 indoor units can be connected to one outdoor unit.



Slim & Compact Design

The compact and slim design of the J-IIIL series makes it ideal for buildings with limited installation space.



Interior Installation



Quiet operation does not disturb residents

Low sound level operation enables installation in any environment.

Installation in Alleys





AIRSTAGE™ J-Series outdoor unit



AIRSTAGE™ V-Series outdoor unit

Space saving

Space-saving design to fit in tight areas on the ground, on patios/balconies or on the wall.

Curbside Installation





AIRSTAGE™ J-Series outdoor units



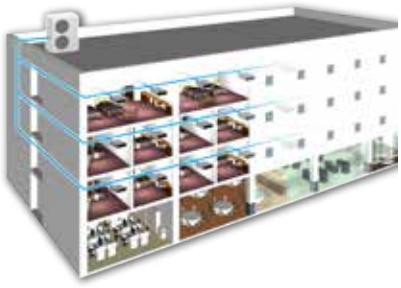
Traditional VRF top-discharge outdoor units

Flexible installation

Slim and compact design enable outdoor units to be installed beneath windows

Flexible system configuration

Up to 30 indoor units can be connected to one outdoor unit



J-IIIL
Max. Connectable Indoor Units
10Ton : 30units
8Ton : 24units
6Ton : 18units

Low sound level design

Low sound levels due to inverter DC twin rotary compressor and advanced air flow technology.

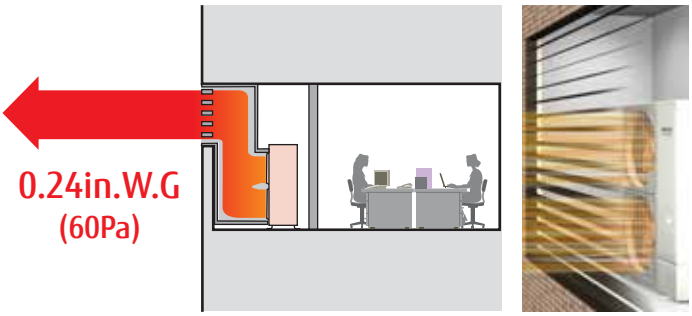
Sound levels as low as
54 dB(A)



J-IIIL

High Static Pressure

Increased installation flexibility with available external static pressure up to 0.24in. W.G (60Pa).



Indoor unit and controller connectivity



Wall Mounted | Mini Duct | Compact Cassette | Compact Floor

JIII-L outdoor units can connect to:
- 14 types of indoor units - 58 different models (Capacity ranges from 4,000 to 96,000 BTU/h)
- Wide range of control options

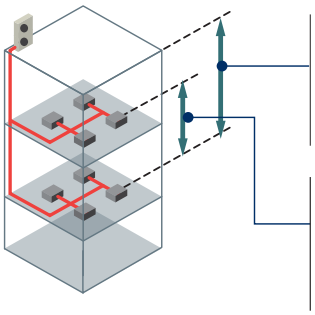


Installation Flexibility

Flexible Piping

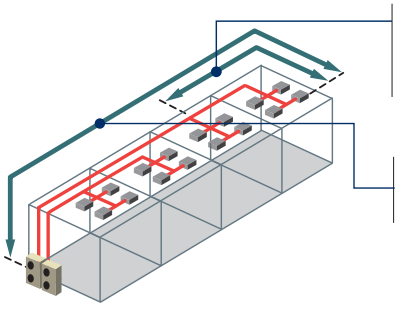
Fujitsu advanced refrigerant control technology allows a total refrigerant piping length of 1312 ft.

Total Piping Length
Max. 1,312 ft.
(400m)



Height difference between outdoor and indoor units
Max.164ft. (50m)
For the outdoor unit installed below the indoor units: 131ft. (40m) max.

Height difference between indoor units
Max.164ft. (50m)
For latest generation of indoor units



Piping length from first separation tube to the farthest indoor unit
Max.295ft. (90m)

Actual piping length
Max.393ft. (120m)

AOU72RLAVL, AOU96RLAVL, AOU120RLAVL



Specifications

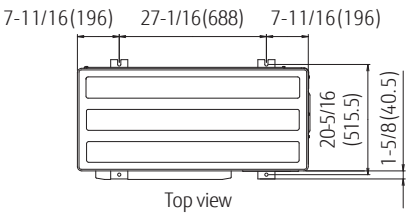
Nominal system capacity		Ton	6	8	10
Model name			AOU72RLAVL	AOU96RLAVL	AOU120RLAVL
Indoor unit connectable capacity ratio			50% to 150%		
Maximum connectable indoor unit			1-18	1-24	1-30
Power source		Ø/V/Hz	208/230V, 3-Phase, 60Hz		
Capacity (Non-Ducted/Ducted)	Capacity	Btu/h	72,000	96,000	120,000
	EER	Btu/h/W	12.1/11.9	11.6/11.6	
	IEER	-	23.9/21.5	23.1/21.1	24.2/20.9
Capacity (Non-Ducted/Ducted)	Capacity	Btu/h	81,000	108,000	135,000
	COP at 47°F	W/W	4.19/4.01	3.87/3.66	3.77/3.64
Airflow rate		CFM(m^3/h)	5,298(9,000)	6,475(11,000)	7,653(13,000)
Sound pressure level	Cooling/Heating	dB(A)	54/55	59/60	62/63
Dimensions	Height	in.(mm)	64-1/2(1,638)		
	Width		42-1/2(1,080)		
	Depth		18-7/8(480)		
Weight		lbs.(kg)	470(213)		
Connection pipe diameter	Liquid	in.(mm)	3/8(9.52)		1/2(12.70)
	Gas		3/4(19.05)	7/8(22.20)	1-1/8(28.58)
Max.Total pipe length		ft.(m)	393(120)		
Max.height difference (Outdoor Unit: Upper/Lower)			164/131(50/40)		
Operation range	Cooling	°F(°C)	5*1 to 115 (-15*1 to 46)		23*1,2 to 115 (-5*1,2 to 46)
	Heating		-4 to 70(-20 to 21)		
Refrigerant type			R410A		
Maximum Circuit Breaker		A	40		50
Minimum Circuit Ampacity (MCA)		A	38	39	47

Note: Specifications are based on the following conditions: Cooling: Indoor temperature of 80°F (26.7°C)DB / 67°F (19.4°C) WB, and outdoor temperature of 95°F (35°C)DB / 75°F (23.9°C)WB. Heating: Indoor temperature of 70°F (21.1°C)DB / 60°F (15.6°C)WB, and outdoor temperature of 47°F (8.3°C)DB / 43°F (6.1°C)WB. Pipe length: 25ft. (7.5m), Height difference: 0ft. (0m). (Outdoor unit - indoor unit)

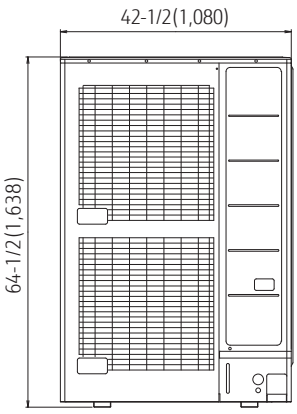
*1 When the outdoor unit is lower than the indoor unit, the temperature range is 23°F(-5°C).
*2 The cooling operation range of 5 to 115°F(-15 to 46°C) is allowed only when all of the indoor units connected to the system are higher than capacity of 18000Btu/h(5.6kW).

Dimensions

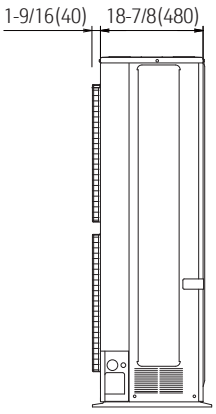
(Units: in (mm)



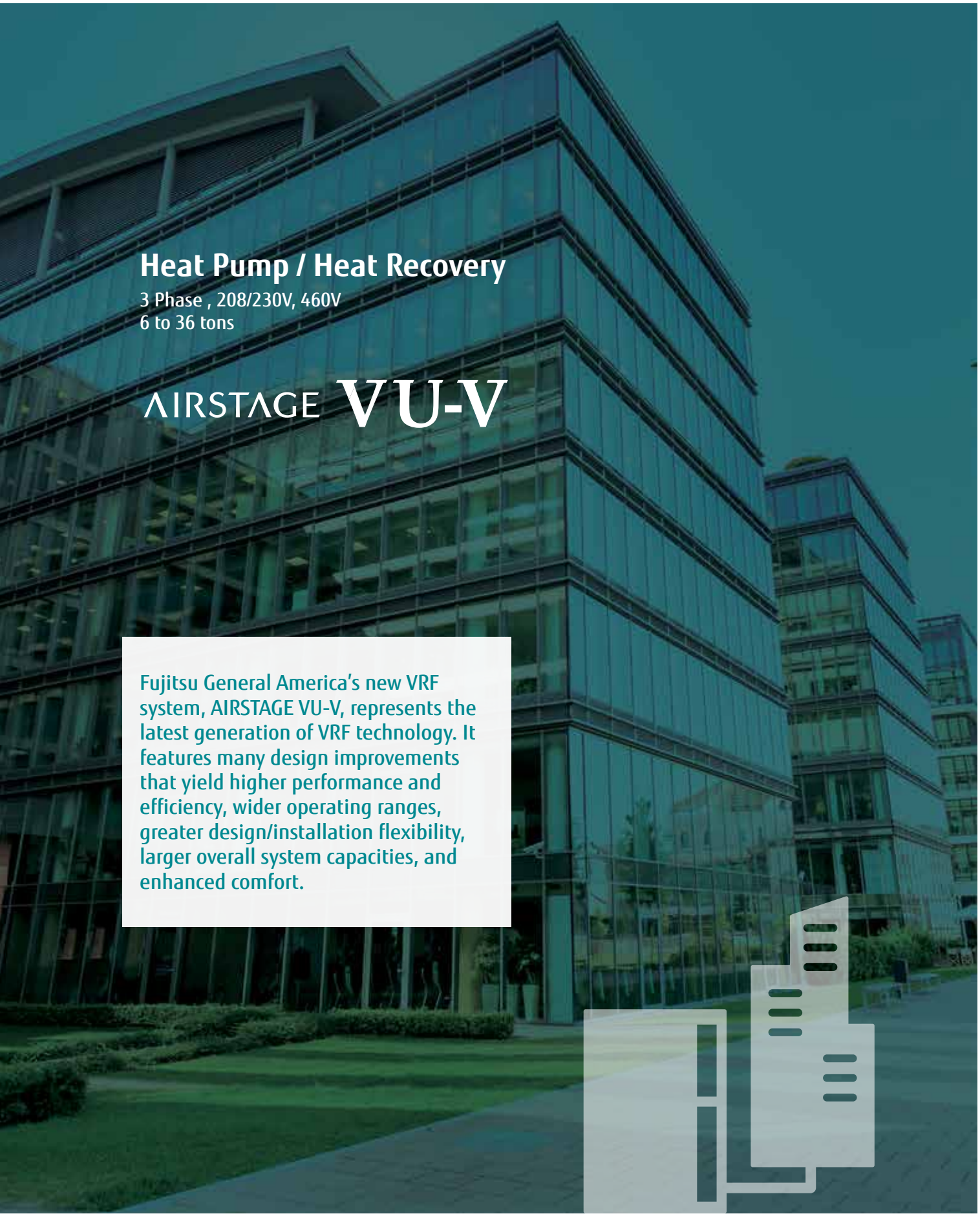
Top view



Front view



Side view



Heat Pump / Heat Recovery

3 Phase , 208/230V, 460V
6 to 36 tons

AIRSTAGE VU-V

Fujitsu General America's new VRF system, AIRSTAGE VU-V, represents the latest generation of VRF technology. It features many design improvements that yield higher performance and efficiency, wider operating ranges, greater design/installation flexibility, larger overall system capacities, and enhanced comfort.

Flexibility

Extended system capacity range – up to 36 Tons

Increased outdoor unit capacities saves space and costs.

Tons	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Number of ODU Modules	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3

Increased number of connectable indoor units

Improved design flexibility for applications with many indoor units such as hotels and offices.

Up to **42** indoor units for **6** to **16** Ton systems



Up to **58** indoor units for **18** to **22** Ton systems

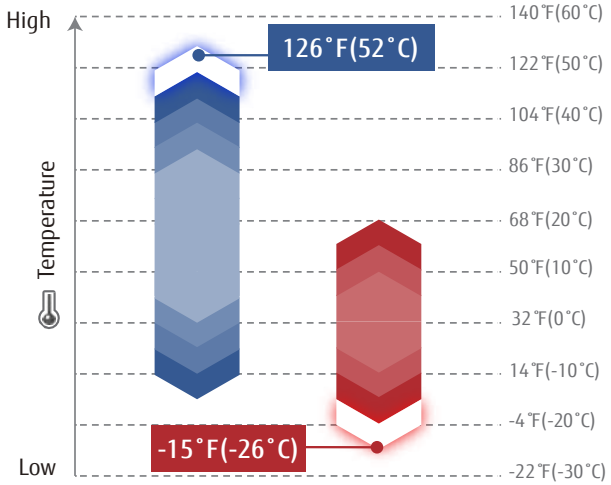


Up to **64** indoor units for **24** Ton and larger systems



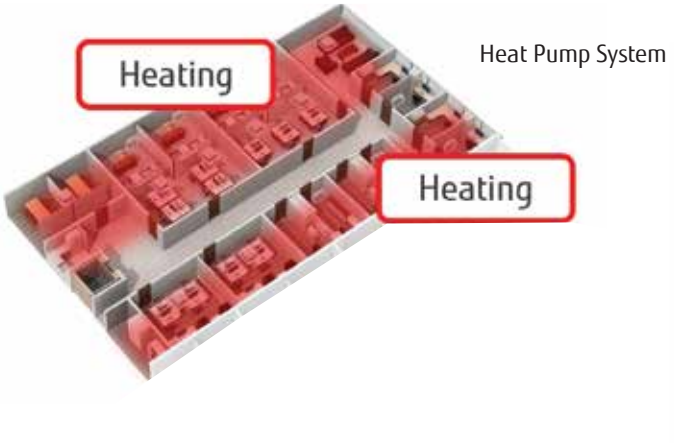
Extended ambient air temperature operating range

- Heating down to -15°F as standard and high heating capacities enables the system to be used in cold regions
- Increases system application and design flexibility

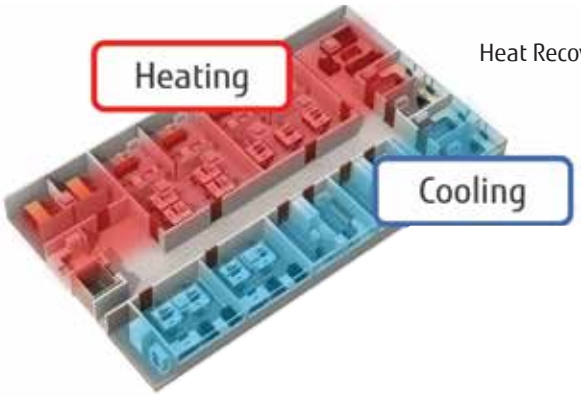


Unified outdoor units

The same outdoor unit can be used for both heat pump and heat recovery applications.



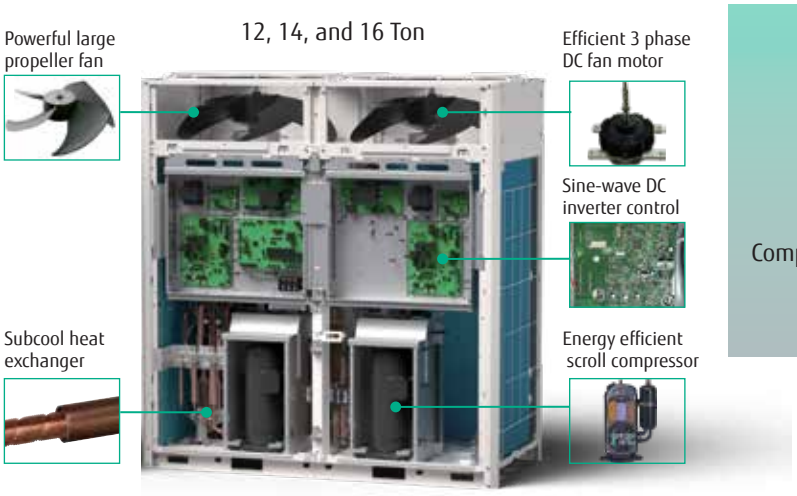
Heat Pump System



Heat Recovery System

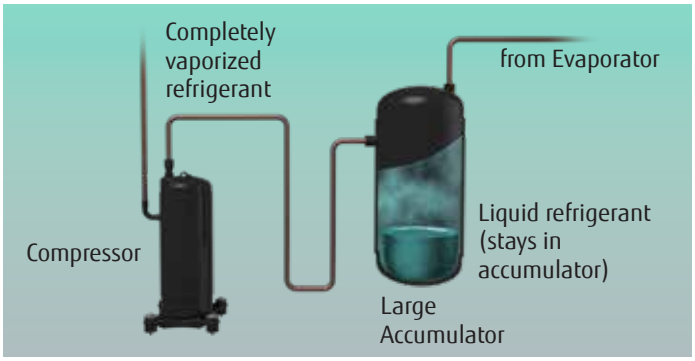
Service friendly design

Easy front access to electrical compartments, inverter board, compressors, fans, and other important piping components.



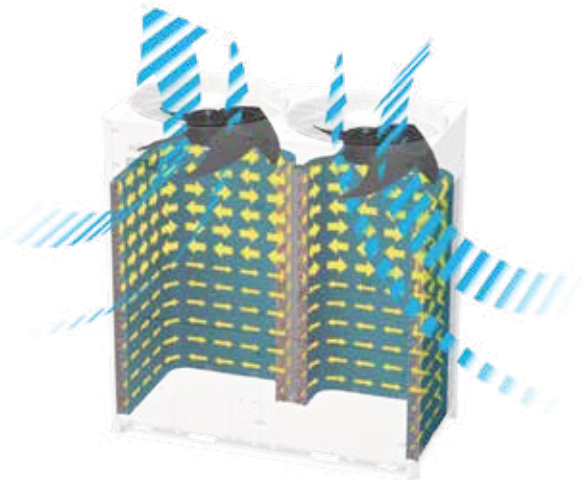
Reliable and efficient operation

Large sized refrigerant accumulator to prevent liquid from entering the compressor.



Refrigerant flow control

Refrigerant flow is automatically adjusted within the heat exchanger depending on airflow balance.



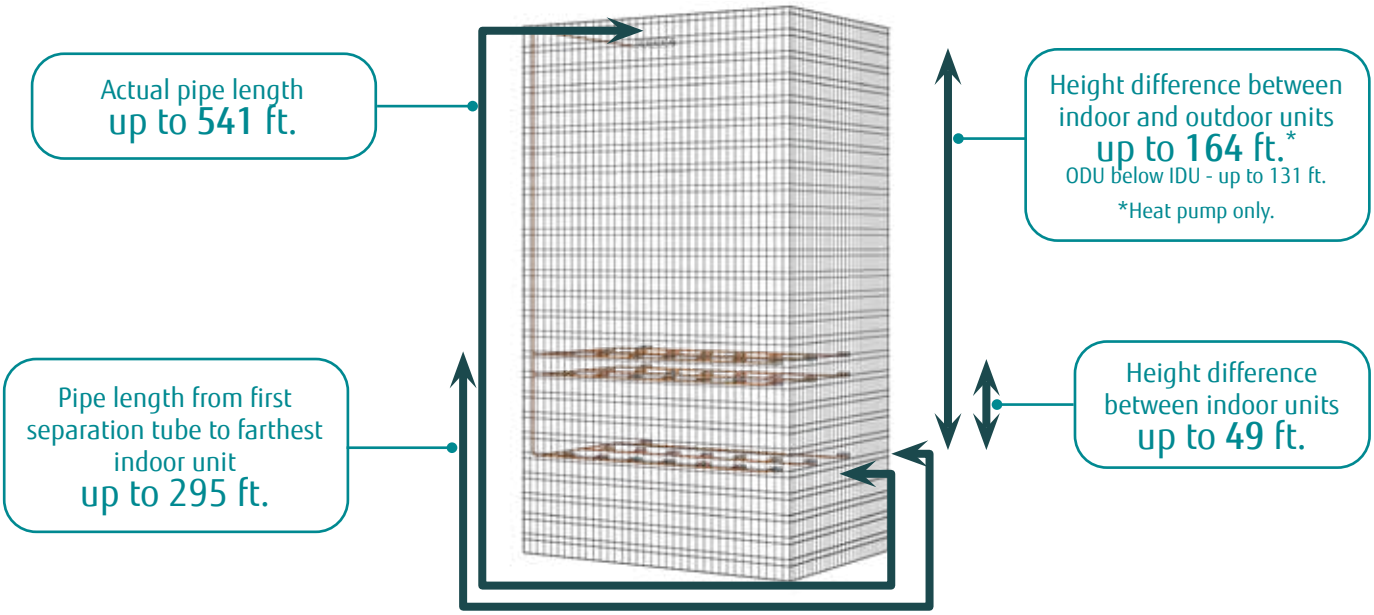
Service and maintenance window

Service window provides ease of access to multi-functional display and buttons without removing any main front panels.



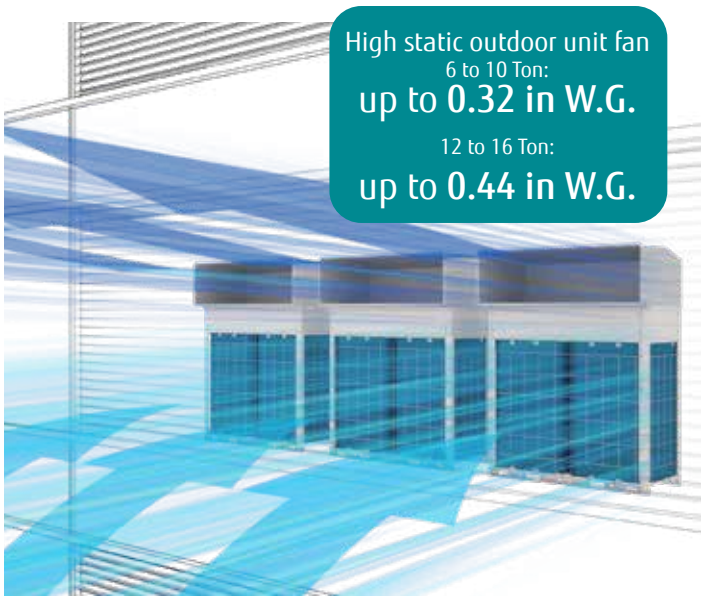
Generous piping guidelines

Enables the VU-V system to be used in a variety of applications.



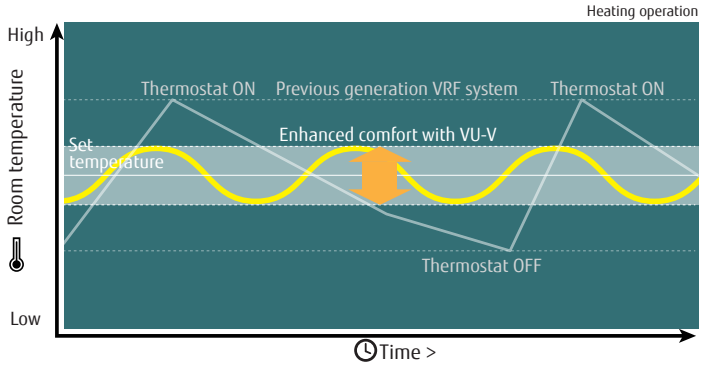
High static outdoor unit fan

Facilitates installations with outdoor units installed in tight spaces, or inside a building.



Intelligent refrigerant control

Optimizes the refrigerant temperature to provide year-round energy savings and individual comfort in each zone.

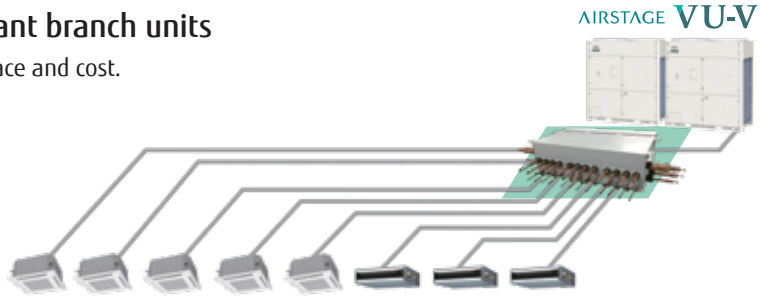


Continuous heating during defrost operation

Keeps the rooms served by a multi module system comfortable even during temporary defrost operation.

Single and multi type refrigerant branch units

Increases design flexibility and saves space and cost.



Refrigerant branch units lineup:

Single type | Multi type 4 branches | Multi type 8 branches | Multi type 12 branches

Specifications for 208 / 230 / 460V

Nominal Tonage	Ton(s)	6		8		10		12		14	
Model Name	Units	AOUA72ULBV5 / AOUA72ULCV5		AOUA96ULBV5 / AOUA96ULCV5		AOUA120ULBV5 / AOUA120ULCV5		AOUA144ULBV5 / AOUA144ULCV5		AOUA168ULBV5 / AOUA168ULCV5	
Unit Group Configuration		1×(AOUA72ULBV5) / 1×(AOUA72ULCV5)		1×(AOUA96ULBV5) / 1×(AOUA96ULCV5)		1×(AOUA120ULBV5) / 1×(AOUA120ULCV5)		1×(AOUA144ULBV5) / 1×(AOUA144ULCV5)		1×(AOUA168ULBV5) / 1×(AOUA168ULCV5)	
Indoor Unit Total Capacity		25%* to 150%						50% to 150%			
Maximum Connectable Indoor Units		16		21		26		32		37	
CAPACITY											
Nominal Cooling Capacity	BTU/h [kW]	72,000 [21.1]		96,000 [28.1]		120,000 [35.2]		144,000 [42.2]		168,000 [49.2]	
Cooling Power Input (Nominal)	kW	4.46 / 5.17		6.70 / 7.24		8.16 / 9.42		9.18 / 10.37		12.71 / 12.78	
Nominal Heating Capacity	BTU/h [kW]	81,000 [23.7]		108,000 [31.7]		135,000 [39.6]		162,000 [47.5]		188,000 [55.1]	
Heating Power Input (Nominal)	kW	4.95 / 5.56		7.31 / 7.52		9.93 / 9.63		10.73 / 10.92		13.60 / 13.55	
ELECTRIC											
Electrical Power Requirements		208 / 230 VAC, 3-Phase, 60Hz / 460 VAC, 3-Phase, 60Hz									
Maximum Circuit Breaker	A	40 / 20		50 / 25		60 / 30		60 / 35		70 / 40	
Minimum Circuit Ampacity (MCA)	A	29.3 / 17.3		37.7 / 21.9		43.9 / 24.9		49.8 / 29.8		59.8 / 34.8	
EFFICIENCY											
Cooling (Non-Ducted/Ducted)	EER	12.3 / 14.9		13.2 / 11.7		13.5 / 11.3		14.4 / 12.2		12.2 / 11.5	
Heating 17° (Non-Ducted | Ducted)	IEER	29.00	21.20	28.00	19.90	28.40	19.80	28.20	20.40	25.70	19.90
Heating 47° (Non-Ducted | Ducted)	COP	4.42	3.77	4.00	3.72	3.69	3.65	4.07	3.82	3.78	3.61
TEMPERATURE											
Operating Temp. Cooling (DB)	°F [°C]	14 to 126 [-10 to 52] / 5 to 126 [-15 to 52]									
Operating Temp. Heating (DB)	°F [°C]	-15 to 70 [-26 to 21]									
PIPE											
Pipe Connection: Liquid	in [mm]	3/8 [9.52]				1/2 [12.70]				5/8 [15.88]	
Pipe Connection: Discharge Gas	in [mm]	3/4 [19.05]				3/4 [19.05]		7/8 [22.22]			
REFRIGERANT											
Refrigerant Type		R410A									
Refrigerant Charge	lbs [kg]	25.79 [11.70]						26.01 [11.8]			
FAN											
Fan Airflow Rate	CFM [m3/h]	6533 [11,100]				7652 [13,000]		2×(6533 [11,100])			
External Static Pressure (Max)	in.WG [Pa]	0.32 [80]						0.44 [110]			
Sound Pressure Levels (Clg/Htg)	dB (A)	57 / 58		59 / 59		61 / 62		59 / 61		61 / 64	
COMPRESSOR											
Compressor Type x Quantity		Scroll (inv) x 1						Scroll (inv) x 2			
Compressor Motor Output	kW	4.7				6.2		4.7 + 4.7			
Compressor Crankcase Heater	W	35		35 x 2		35 x 2		35 x 2			
DIMMENSIONS / WEIGHT											
Dim.Net (HxWxD)	in [mm]	66-9/16 × 36-5/8 × 30-1/8 [1,690 × 930 × 765] /				66-9/16 × 48-13/16 ×30-1/8 [1,690 × 1240 × 765] /		66-9/16 × 63 × 30-1/8 [1,690 × 1,600 × 765]			
Net Weight	lbs [kg]	569 [258] / 582 [264]				622 [282] / 582 [264]		930 [422] / 944 [428]		944 [428] / 1041 [472]	

*Only applicable for Heat Recovery models. Heat Pump models starts at 50%



Nominal Tonage	Ton(s)	16		18		20		22		24	
Model Name	Units	AOUA192ULBV5 / AOUA192ULCV5		AOUA216ULBVG5 / AOUA216ULCVG5		AOUA240ULBVG5 / AOUA240ULCVG5		AOUA264ULBVG5 / AOUA264ULCVG5		AOUA288ULBVG5 / AOUA288ULCVG5	
Unit Group Configuration		1×(AOUA192ULBV5) / 1×(AOUA192ULCV5)		1×(AOUA120ULBV5) 1×(AOUA96ULBV5) / 1×(AOUA120ULCV5) 1×(AOUA96ULCV5)		1×(AOUA120ULBV5) 1×(AOUA120ULBV5) / 1×(AOUA120ULCV5) 1×(AOUA120ULCV5)		1×(AOUA144ULBV5) 1×(AOUA120ULBV5) / 1×(AOUA144ULCV5) 1×(AOUA120ULCV5)		2×(AOUA144ULBV5)/ 2×(AOUA144ULCV5)	
Indoor Unit Total Capacity		50% to 150%									
Maximum Connectable Indoor Units		42		47		52		58		64	
CAPACITY											
Nominal Cooling Capacity	BTU/h [kW]	192,000 [56.2]		216,000 [63.3]		240,000 [70.3]		264,000 [77.4]		288,000 [84.4]	
Cooling Power Input (Nominal)	kW	16.31 / 15. 62		18.41		20.48		20.92		27.46	
Nominal Heating Capacity	BTU/h [kW]	216,000 [63.3]		243,000 [71.2]		270,000 [79.1]		297,000 [87.0]		324,000 [95.0]	
Heating Power Input (Nominal)	kW	16.98 / 16.15		19.16		21.9		22.92		25.99	
ELECTRIC											
Electrical Power Requirements		208 / 230 VAC, 3-Phase, 60Hz / 460 VAC, 3-Phase, 60Hz									
Maximum Circuit Breaker	A	80 / 50		110 / 55		(60) x 2 / (30) x 2		120 / 65		120 / 70	
Minimum Circuit Ampacity (MCA)	A	71 / 41.5		43.9 + 37.7 / 24.9 + 21.9		43.9 + 43.9 / 24.9 + 24.9		49.8 + 43.9 / 29.8 + 24.9		49.8 + 49.8 / 29.8 + 29.8	
EFFICIENCY											
Cooling (Non-Ducted/Ducted)	EER	11.0 / 10.9		10.9 / 10.9		10.9 / 10.9		11.7 / 11.2		9.8 / 10.0	
Heating 17° (Non-Ducted/Ducted)	IEER	24.60	19.30	20.00	19.20	20.80	20.20	22.90	17.30	22.40	17.20
Heating 47° (Non-Ducted/Ducted)	COP	3.48	3.48	3.47	3.47	3.36	3.36	3.52	3.52	3.39	3.37
TEMPERATURE											
Operating Temp. Cooling (DB)	°F [°C]	14 to 126[-10 to 52] / 5 to 126[-15 to 52]									
Operating Temp. Heating (DB)	°F [°C]	-15 to 70[-26 to 21]									
PIPE											
Pipe Connection: Liquid	in [mm]	5/8 [15.88]								3/4 [19.05]	
Pipe Connection: Discharge Gas	in [mm]	7/8 [22.22]		1-1/8 [28.58]							
REFRIGERANT											
Refrigerant Type		R410A									
Refrigerant Charge	lbs [kg]	26.01 [11.8]		(25.79 [11.70]) + (26.01 [11.80])		(26.01 [11.80]) x 2		(26.01 [11.80]) x 2		(25.79 [11.70]) x 3	
FAN											
Fan Airflow Rate	CFM [m3/h]	13,067 [22200]		14,185 [24,100]		(7652 [13,000]) x 2		20,719 [35,200]		(6533 [11,100]) x 3	
External Static Pressure (Max)	in.WG [Pa]	0.44 [110]		0.32 [80]		0.32 [80]		0.76[190]		0.44[110]	
Sound Pressure Levels (Clg/Htg)	dB (A)	65 / 67		63 / 64		64 / 65		63 / 65		62 / 64	
COMPRESSOR											
Compressor Type x Quantity		Scroll (inv) x 2						Scroll (inv) x 3		Scroll (inv) X 4	
Compressor Motor Output	kW	4.7 + 4.7		4.7 + 6.2		6.2 + 6.2		4.7 + 4.7 + 6.2		4.7 + 4.7 + 4.7 + 4.7	
Compressor Crankcase Heater	W	35 x 2		(35 x 2) x 2				(35 x 2) x 3		(35 x 2) x 4	
DIMMENSIONS / WEIGHT											
Dim.Net (HxWxD)	in [mm]	66-9/16 × 63 × 30-1/8 [1,690 × 1,600 × 765]		(66-9/16 × 48-13/16 × 30-1/8) + (66-9/16 × 36-5/8 × 30-1/8) [1,690 × 1,240 × 765] + [1,690 × 930 × 765]		(66-9/16 × 48-13/16 × 30-1/8) x 2 [1,690 × 1240 × 765] x 2		(66-9/16 × 63 × 30-1/8) + (66-9/16 × 48-13/16 × 30-1/8) [1,690 × 1,600 × 765] + [1,690 × 1,240 × 765]		(66-9/16 × 63 × 30-1/8) x 2 [1,690 × 1,600 × 765] x 2	
Net Weight	lbs [kg]	930 [422] / 944 [428]		1,191 [540] / 1,217 [552]		622 [282] x 2 / 635 [288] x 2		1,552 [704] / 1,579 [716]		930 {422] x 2 / 944 {428} x 2	

Cont'd →



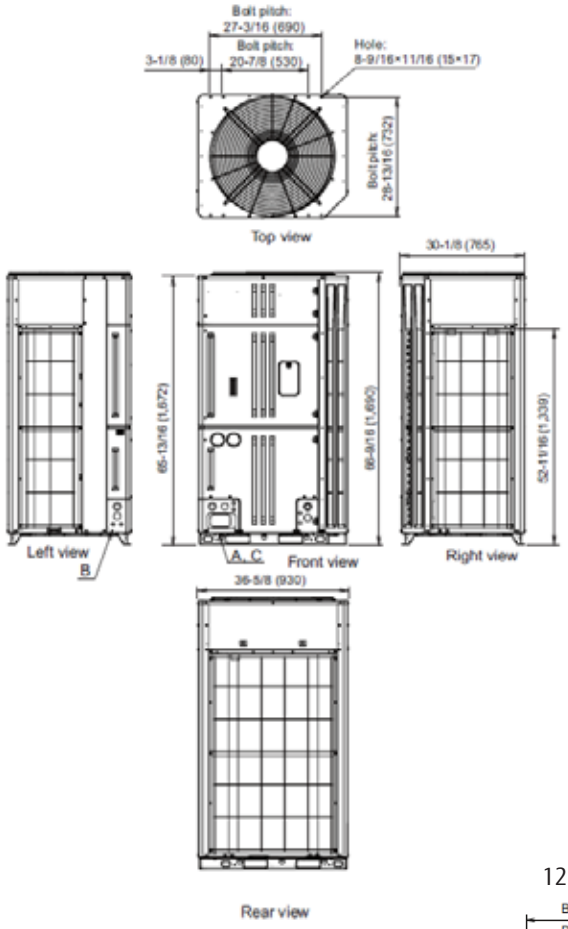
Specifications

Nominal Tonage	Ton(s)	26		28		30		32		34		36	
Model Name	Units	AOUA312ULBVG5 / AOUA312ULCVG5		AOUA336ULBVG5 / AOUA336ULCVG5		AOUA360ULBVG5 / AOUA360ULCVG5		AOUA384ULBVG5 / AOUA384ULCVG5		AOUA408ULBVG5 / AOUA408ULCVG5		AOUA432ULBVG5 / AOUA432ULCVG5	
Unit Group Configuration		1×(AOUA144ULBV5) 1×(AOUA168ULBV5) / 1×(AOUA144ULCV5) 1×(AOUA168ULCV5)		2×(AOUA168UL-BV5)/ 2×(AOUA168ULCV5)		1×(AOUA192ULBV5) 1×(AOUA168UL-BV5) / 1×(AOUA192ULCV5) 1×(AOUA168ULCV5)		2×(AOUA192UL-BV5)/ 2×(AOUA192ULCV5)		2×(AOUA144ULBV5) 1×(AOUA120UL-BV5) / 2×(AOUA144ULCV5) 1×(AOUA120ULCV5)		3×(AOUA144UL-BV5)/ 3×(AOUA144ULCV5)	
Indoor Unit Total Capacity		50% to 150%											
Maximum Connectable Indoor Units		64		64		64		64		64		64	
CAPACITY													
Nominal Cooling Capacity	BTU/h [kW]	312,000[91.4]		336,000[98.5]		360,000[105.5]		384,000[112.5]		408,000[119.6]		432,000[126.6]	
Cooling Power Input (Nominal)	kW	29.70		31.81		34.15		36.37		34.36		37.09	
Nominal Heating Capacity	BTU/h [kW]	351,000[102.9]		378,000[99.1]		405,000[118.7]		432,000[126.6]		459,000[134.5]		486,000[142.4]	
Heating Power Input (Nominal)	kW	27.02		28.46		29.0		29.72		32.38		32.57	
ELECTRIC													
Electrical Power Requirements		208 / 230 VAC, 3-Phase, 60Hz / 460 VAC, 3-Phase, 60Hz											
Maximum Circuit Breaker	A	130 / 70		140 / 80		150 / 90		160 / 100		180 / 100		180 / 105	
Minimum Circuit Ampacity (MCA)	A	59.8 + 49.8 / 34.8 + 29.8		59.8 + 59.8 / 34.8 + 34.8		71.0 + 59.8 / 41.5 + 34.8		71.0 + 71.0 / 41.5 + 41.5		49.8 + 49.8 + 43.9 / 29.8 + 29.8 + 24.9		49.8 + 49.8 + 49.8 / 29.8 + 29.8 + 29.8	
EFFICIENCY													
Cooling (Non-Ducted/Ducted)	EER	9.8 / 10.0								11.0 / 11.0		10.8 / 10.8	
Heating 17° (Non-Ducted | Ducted)	IEER	22.40	17.20	22.40	17.20	22.40	17.20	22.40	17.20	22.70	17.60	22.90	17.50
Heating 47° (Non-Ducted | Ducted)	COP	3.39	3.37	3.39	3.37	3.39	3.37	3.39	3.37	3.46	3.46	3.53	3.53
TEMPERATURE													
Operating Temp. Cooling (DB)	°F [°C]	14 to 126 [-10 to 52] / 5 to 126 [-15 to 52]											
Operating Temp. Heating (DB)	°F [°C]	-15 to 70 [-26 to 21]											
PIPE													
Pipe Connection: Liquid	in [mm]	3/4 [19.05]											
Pipe Connection: Discharge Gas	in [mm]	1-1/8 [28.58]								1-3/8 [34.92]			
REFRIGERANT													
Refrigerant Type		R410A											
Refrigerant Charge	lbs [kg]	26.01 [11.80] x 2								26.01[11.80] x 3			
FAN													
Fan Airflow Rate	CFM [m3/h]	13,067 [22,200] x 2								33,786 [57,400]		13,067 [22,200] x 3	
External Static Pressure (Max)	in.WG [Pa]	0.44[110]											
Sound Pressure Levels (Clg/Htg)	dB (A)	63 / 66		64 / 67		66 / 69		68 / 70		63 / 64		64 / 65	
COMPRESSOR													
Compressor Type x Quantity		Scroll (inv) x 4								Scroll (inv) x 5		Scroll (inv) x 6	
Compressor Motor Output	kW	4.7 + 4.7 + 4.7 + 4.7								4.7 + 4.7 + 4.7 + 4.7 + 6.2		4.7 + 4.7 + 4.7 + 4.7+ 4.7 + 4.7	
Compressor Crankcase Heater	W	[35 x 2] x 4								35 x 4			
DIMMENSIONS / WEIGHT													
Dim.Net (HxWxD)	in [mm]	66-9/16 × 63 × 30-1/8) x 2 [1,690 × 1,600 × 765] x 2								(66-9/16 × 63 × 30-1/8) x 2 (66-9/16 × 48-13/16 × 30-1/8) [1,690 × 1,600 × 765] x 2 [1,690 x 1,240 x 765]		(66-9/16 × 63 × 30-1/8) x 3 [1,690 × 1,600 × 765] x 3	
Net Weight	lbs [kg]	930 [422] x 2 / 944 [428] x 2								2482[1,126] / 2,523[1,144]		930 [422] x 3 / 944 [428] x 3	

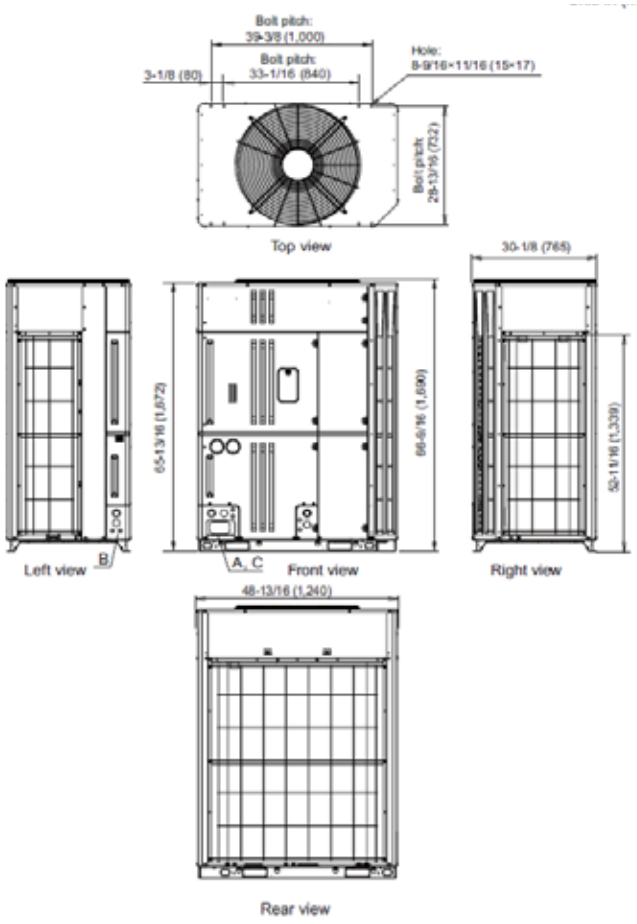
Dimensions

(Units: in (mm)

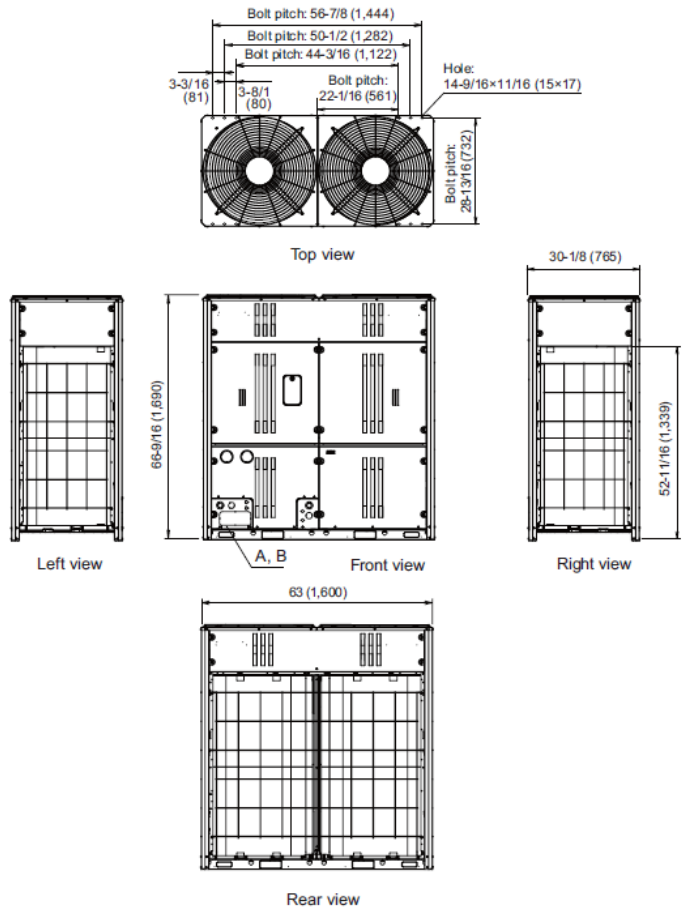
6, 8 Ton



10 Ton



12, 14, 16 Ton Ton



VRF INDOOR UNITS

The Fujitsu AIRSTAGE indoor unit range is one of the widest on the market, offering 13 stylish and elegant indoor unit types in 58 different models. All designed to blend into any environment, maximize comfort, minimize operating sound and simplify installation and servicing.





Compact Cassette

AUUA4TLAV2
AUUA7TLAV2
AUUA9TLAV2
AUUA12TLAV2
AUUA14TLAV2
AUUA18TLAV2
AUUA24TLAV2



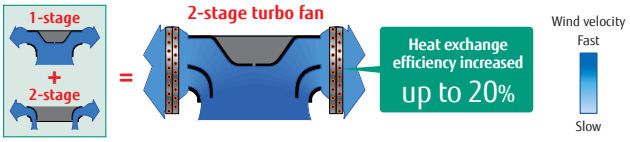
Compact size panel design that fits in a standard 24" square ceiling panel (600 x 600mm)

Note: IR Receiver is standard for communicating with optional Wireless Remote Control.
Compact Cassette Grille UTG-CCGVG sold separately. Must order one with each compact cassette.

2-stage turbo fan

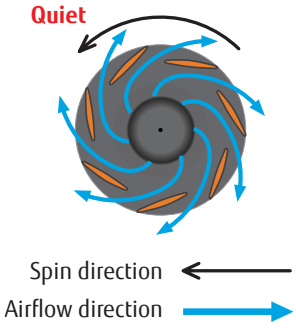
2-stage fan design for high efficiency
High efficiency heat transfer due to 2 stage turbo fan with dual airflow for even air distribution across the heat exchanger.





Quiet

Optimized fan blade design for low noise and high performance

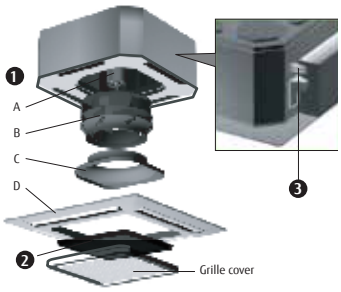


Specifications

Model			AUUA4TLAV2	AUUA7TLAV2	AUUA9TLAV2	AUUA12TLAV2	AUUA14TLAV2	AUUA18TLAV2	AUUA24TLAV2
Power source			1 Phase ~ 208/230V 60Hz						
Capacity	Cooling	BTU/h	4,000	7,500	9,500	12,000	14,000	18,000	24,000
		kW	1.2	2.2	2.8	3.5	4.1	5.3	7.0
	Heating	BTU/h	4,400	9,500	10,900	13,500	15,600	20,000	27,000
		kW	1.3	2.8	3.2	4.0	4.6	5.9	7.9
Input power		W	23	25	25	29	35	36	84
Airflow rate	High	CFM (m^3/h)	312 (530)	318 (540)	324 (550)	353 (600)	400 (680)	418 (710)	606 (1,030)
	Med		265 (450) / 247 (420)	265 (450)	265 (450)	312 (530)	347 (590)	341 (580)	489 (830)
	Low		206 (350) / 177 (300)	206 (350)	206 (350)	230 (390)	230 (390)	235 (400)	265 (450)
Sound pressure level	High	dB (A)	34	34	35	37	38	41	50
	Med		30 / 28	30	30	34	34	35	44
	Low		25 / 21	25	25	27	27	27	30
Dimensions (H × W × D)		in.(mm)	9-5/8 × 22-7/16 × 22-7/16 (245 × 570 × 570)						
Weight		lbs.(kg)	32 (14.5)	33 (15)	33 (15)	33 (15)	33 (15)	37 (17)	37 (17)
Connection pipe diameter	Liquid (Flare)	in.(mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)
	Gas (Flare)		3/8 (9.52)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
Drain hose diameter (I.D./O.U.)			3/4 / 1-1/16						
Cassette Grille	Model name		UTG-CCGVG						
	Dimensions (H×W×D)	in.(mm)	1-15/16 × 24-7/16 × 24-7/16 (49 × 620 × 620)						
	Weight	lbs.(kg)	5.1(2.3)						

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB,and outdoor temperature of 95.0°F(35°C)DB/75°F(23.9°C)WB.
Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB,and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.
Pipe length : 25ft.(7.5 m), Height difference : 0ft.(0 m) (Outdoor unit - Indoor unit).
Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

Optimized airflow distribution



❶ Easy maintenance of fan and motor

Access and maintenance of the fan and motor can easily be done removing a panel. Both fan and motor can easily be removed for repair or replacement.

A : Fan motor B : 2-stage turbo fan
C : Bell-mouth D : Grille Panel

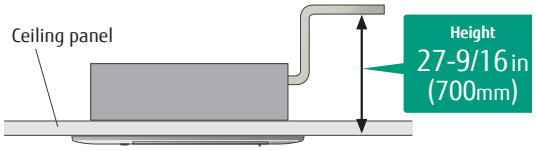
❷ Air filter

Standard equipment

❸ Transparent condensate drain parts

During installation, maintenance and operation, the condensate drain pump can easily be inspected.

High lift pump



Built-in condensate drain pump

High ceiling mode

AUUA12/14/18/24TLAV2 models only -The compact cassette can be installed up to a height of 9'10-1/8" ft. (3.0m)

BTU/h	Max height from floor to ceiling (ft.(m))	
	Standard mode	High ceiling mode
4,000	8'10-5/16"(2.7)	-
7,000	8'10-5/16"(2.7)	-
9,000	8'10-5/16"(2.7)	-
12,000	8'10-5/16"(2.7)	9'10-1/8"(3.0)
14,000	8'10-5/16"(2.7)	9'10-1/8"(3.0)
18,000	8'10-5/16"(2.7)	9'10-1/8"(3.0)
24,000	8'10-5/16"(2.7)	9'10-1/8"(3.0)

Compact design

Industry leading 24,000 BTU/h model in the compact cassette category Fits standard 24" ceiling grid.

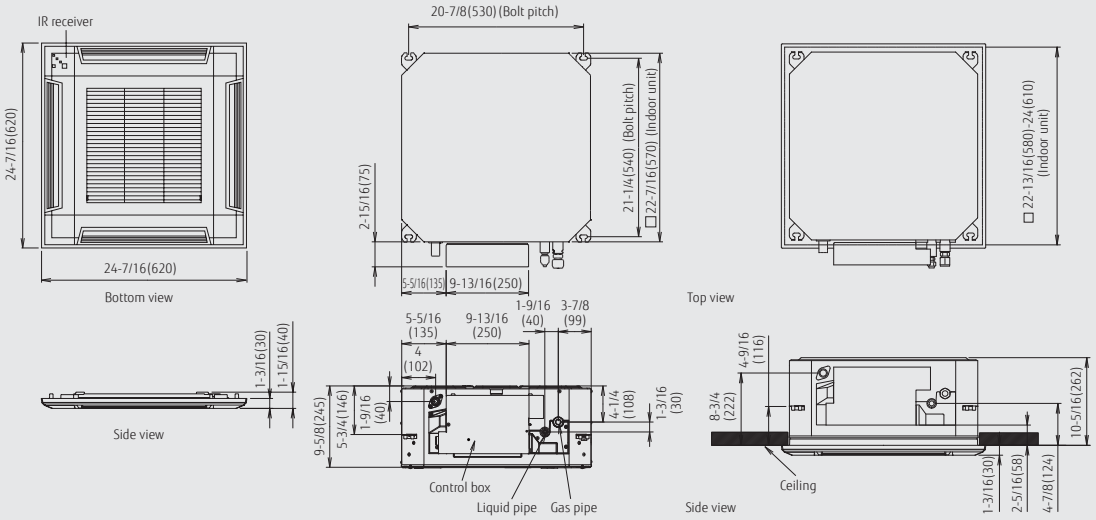


Optional Accessories

Kagami Wired Remote Control ..... UTY-RVRU
Wired Remote Control (Touch Panel) ..... UTY-RNRUZ*
Simple Remote Control ..... UTY-RSRY, UTY-RHRY
Wireless Remote Control ..... UTY-LNHU
Wi-Fi Interface Module UTY-TFSXJ4
Air Outlet Shutter Plate ..... UTR-YDZB
Fresh Air Intake Kit ..... UTZ-VXAA
Insulation Kit for High Humidity ..... UTZ-KXGC

Dimensions

(Unit: In (mm))



Large Circular Flow Cassette

AUUB12TLAV2 (reduced height)

AUUB14TLAV2 (reduced height)

AUUB18TLAV2 (reduced height)

AUUB24TLAV2 (reduced height)

AUUB30TLAV2 (reduced height)

AUUB36TLAV2

AUUB48TLAV2

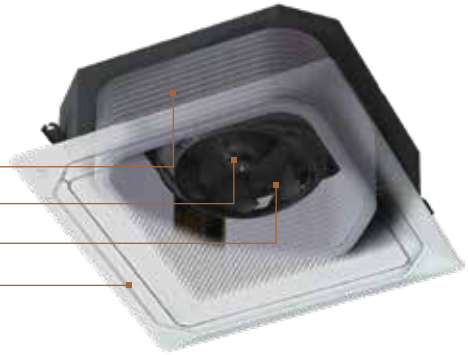


Cassette grille also available in black



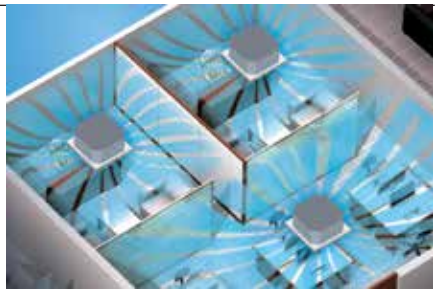
Unique circular air flow design

Unique seamless airflow louver design with 360° air exhaust for even and comfortable temperatures anywhere in the room.



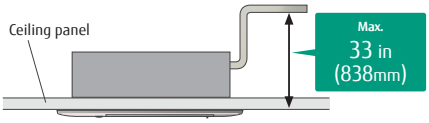
360° louvers for efficient air distribution

Circular air exhaust allows conditioned air to reach all areas of the room.



Integral Condensate Pump

Lift of up to 33 in.



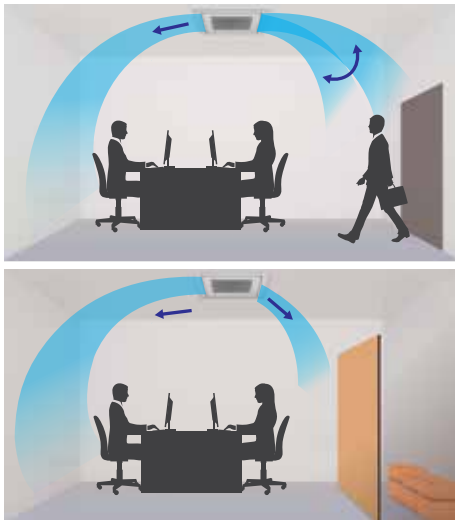
Specifications

Model name			AUUB12TLAV2	AUUB14TLAV2	AUUB18TLAV2	AUUB24TLAV2	AUUB30TLAV2	AUUB36TLAV2	AUUB48TLAV2
Power Source			1 Phase - 208 / 230 V ~ 60 Hz					1 Phase - 208 / 230 V ~ 60 Hz	
Capacity	Cooling	BTU/h	12,000	14,000	18,000	24,000	30,000	36,000	48,000
		kW	3.5	4.1	5.3	7.0	8.8	10.6	14.1
	Heating	BTU/h	13,500	15,600	20,000	27,000	34,000	40,000	54,000
		kW	4.0	4.6	5.9	7.9	10.0	11.7	15.8
Input Power		W	20	20	20	25	49	61	116
Airflow rate	High	CFM (m^3/h)	618 (1,050)	618 (1,050)	618 (1,050)	659 (1,120)	865 (1,470)	954 (1,620)	1,201 (2,040)
	Med-Hi		547 (930)	547 (930)	547 (930)	618 (1,050)	683 (1,160)	883 (1,500)	1,059 (1,800)
	Med		530 (900)	530 (900)	530 (900)	547 (930)	630 (1,070)	824 (1,400)	936 (1,590)
	Lo-Hi		512 (870)	512 (870)	512 (870)	530 (900)	547 (930)	789 (1,340)	848 (1,440)
	Low		477 (810)	477 (810)	477 (810)	512 (870)	530 (900)	753 (1,280)	765 (1,300)
	Quiet		459 (780)	459 (780)	459 (780)	459 (780)	459 (780)	677 (1,150)	677 (1,150)
Sound pressure level	High	dB(A)	33	33	33	35	40	41	47
	Med-Hi		32	32	32	33	36	40	45
	Med		31	31	31	32	34	38	42
	Lo-Hi		30	30	30	31	32	37	39
	Low		29	29	29	30	31	35	36
	Quiet		28	28	28	28	28	33	33
Dimensions (H x W x D)		in.(mm)	9-11/16 × 33-1/16 × 33-1/16 (246 × 840 × 840)					11-5/16 × 33-1/16 × 33-1/16 (288 × 840 × 840)	
Weight		lbs.(kg)	53 (24)	53 (24)	53 (24)	54 (24.5)	54 (24.5)	65 (29.5)	65 (29.5)
Connection pipe diameter	Liquid (Flare)	in.(mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas (Flare)		1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Condensate Drain hose diameter (I.D./O.D.)		in.	3/4 / 1-1/16					3/4 / 1-1/16	
Cassette Grille	Model name		UTG-LCGVCW / UTG-LCGVCB					UTG-LCGVCW / UTG-LCGVCB	
	Dimensions (H×W×D)	in.(mm)	2-1/16 × 37-3/8 × 37-3/8 (53 × 950 × 950)					2-1/16 × 37-3/8 × 37-3/8 (53 × 950 × 950)	
	Weight	lbs.(kg)	13.0 (6.0)	13.0 (6.0)	13.0 (6.0)	13.0 (6.0)	13.0 (6.0)	13.0 (6.0)	13.0 (6.0)

Note : Specifications are based on the following conditions: Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB; and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB. Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB, and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB. Pipe Length : 25ft. (7.5m), Height difference : 0ft.(0m) (Outdoor unit - indoor unit).

Individual louver control

Individually controlled louvers for comfortable air distribution in any room configuration. Compatible remotes and central controllers are: Kagami Wired RC (UTY-RVRU) / Touch Panel Wired RC (UTY-RNRUZ*) / AIRSTAGE Edge Controller (UTY-DSGYZ2)/ Central Remote Controller (UTY-DCGYZ2) / System Controller (UTY-APGXZ1) / System Controller Lite (UTY-ALGXZ1).



Louvers adjust air flow direction for constant comfort for people in the room.

Occupancy/human sensor setting (optional)

Saves energy by automatically turning off the unit if the room is unoccupied.

2 modes can be selected.

Auto saving

Power is saved while no one is around

Auto OFF

Operation is stopped while no one is around

Human Sensor feature control is available through Kagami Wired RC (UTY-RVRU) and Touch Panel Wired RC (UTY-RNRUZ).



Quiet operation with 6 fan speed control

With 6 fan speeds to choose from, circular flow cassette models operate at whisper quiet sound levels.



* Compatible Remote Controllers: UTY-RVRU / UTY-RNRUZ* / UTY-RSRY / UTY-RHRY / UTY-DSGYZ2 / UTY-DCGYZ2 / UTY-ALGXZ1 / UTY-APGXZ1

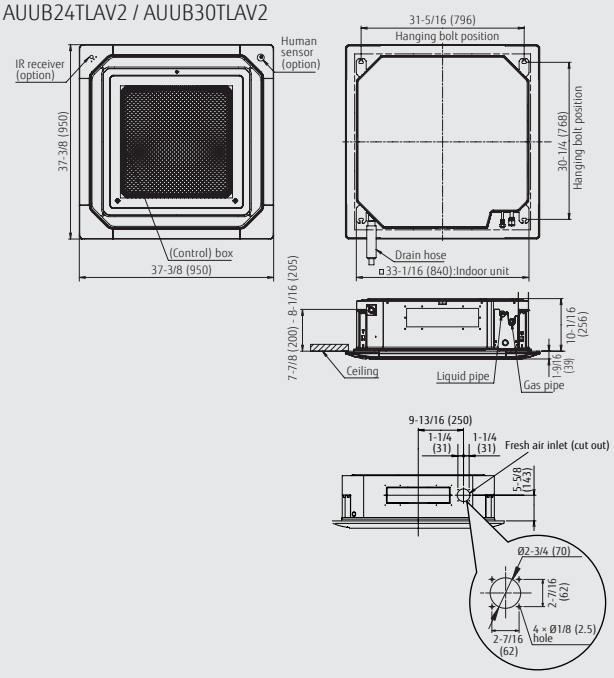
Optional Accessories

Kagami Wired Remote Control	UTY-RVRU
Wired Remote Control (Touch Panel)	UTY-RNRUZ*
Simple Remote Control	UTY-RSRY, UTY-RHRY
IR Receiver	UTB-LBHXD
Wireless Remote Controller	UTY-LNHU
Wi-Fi Interface Module	UTY-TFSXJ4
Human Sensor Kit	UTY-SHZXC
Air Outlet Shutter Plate	UTR-YDZK
Wide Panel	UTG-AKXA-W
Panel Spacer	UTG-BKXA-W
Insulation Kit For High Humidity - 18-24k	UTZ-KXGB
Insulation Kit For High Humidity - 30-36-48k	UTZ-KXGA

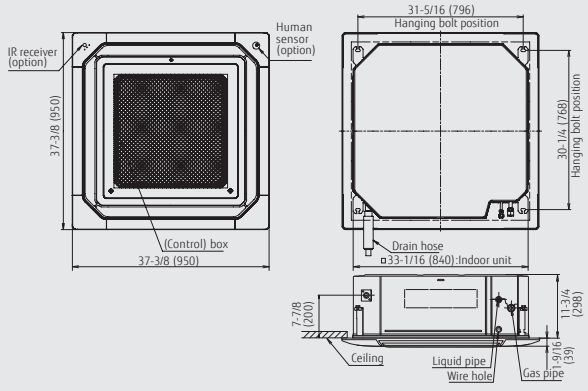
Dimensions

(Unit: In (mm))

Models:
AUUB12TLAV2 / AUUB14TLAV2 /AUUB18TLAV2 / AUUB24TLAV2 / AUUB30TLAV2



AUUB36TLAV2 / AUUB48TLAV2



Slim Compact Duct

ARUL4TLAV2 MINI
ARUL7TLAV2 SLIM
ARUL9TLAV2 SLIM
ARUL12TLAV2 SLIM
ARUL14TLAV2 SLIM
ARUL18TLAV2 SLIM

Slim design, wide range of static pressure settings and flexible installation orientation.



ARUL4TLAV2



ARUL7, 9, 12 ,14TLAV2



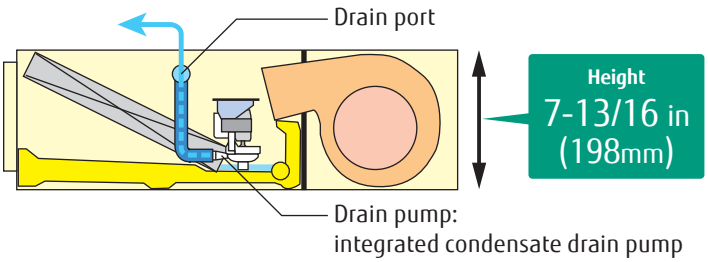
ARUL18TLAV2



Shown with optional Auto Louver Grille Kit
(UTD-GXTA-W, UTD-GXSA-W, UTD-GXSB-W)

Slim design

Slim and compact design for flexibility to be installed in narrow spaces.

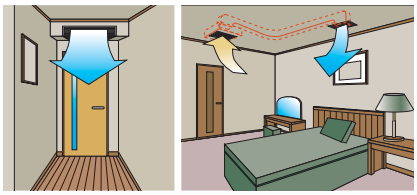


Flexible installation

Can be mounted horizontally or vertically and deliver up to 0.36 in. WG static pressure for flexibility to fit many different application needs. Note: mini duct (ARUL4TLAV2 is horizontal installation only.

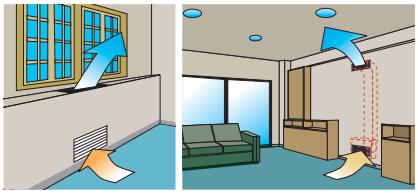
Ceiling concealed





Floor concealed



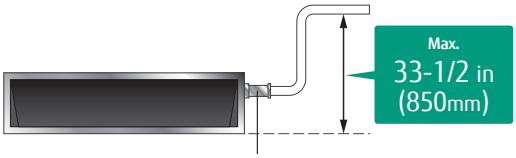


Specifications

Model name			ARUL4TLAV2	ARUL7TLAV2	ARUL9TLAV2	ARUL12TLAV2	ARUL14TLAV2	ARUL18TLAV2
Power source			1 Phase ~ 208/230V 60Hz					
Capacity	Cooling	BTU/h	4,000	7,500	9,500	12,000	14,000	18,000
		kW	1.2	2.2	2.8	3.5	4.1	5.3
	Heating	BTU/h	4,400	9,500	10,900	13,500	15,600	20,000
		kW	1.3	2.8	3.2	4.0	4.6	5.9
Input power		W	26	44	50	54	92	83
Airflow rate	High	CFM (m^3/h)	271 (460)	324 (550)	353 (600)	353 (600)	471 (800)	553 (940)
	Med		247 (420)	288 (490)	324 (550)	300 (510)	418 (710)	494 (840)
	Low		218 (370)	258 (440)	283 (480)	265 (450)	359 (610)	441 (750)
Static pressure range		in.WG (Pa)	0 to 0.12 (0 to 30)	0 to 0.36 (0 to 90)	0 to 0.36 (0 to 90)	0 to 0.36 (0 to 90)	0 to 0.36 (0 to 90)	0 to 0.36 (0 to 90)
Standard static pressure			0.04 (10)	0.10 (25)	0.10 (25)	0.10 (25)	0.10 (25)	0.10 (25)
Sound pressure level	High	dB (A)	25	28	29	30	34	34
	Med		23	25	26	27	32	32
	Low		21	22	24	24	28	28
Dimensions (H × W × D)		in.(mm)	7-13/16 × 27-9/16 × 17-11/16 (198 x 700 x 450)	7-13/16 × 27-9/16 × 24-7/16 (198 × 700 × 620)				7-13/16 × 35-7/16 × 24-7/16 (198 × 900 × 620)
Weight		lbs.(kg)	32 (14.5)	37 (17)	37 (17)	40 (18)	40 (18)	49 (22)
Connection pipe diameter	Liquid (Flare)	in.(mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
	Gas (Flare)		3/8 (9.52)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	5/8 (15.88)
Drain hose diameter (I.D./O.U.)			3/4 / 1-1/16					

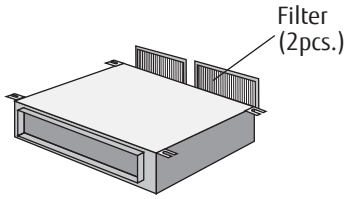
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB,and outdoor temperature of 95.0°F(35°C)DB/75°F(23.9°C)WB.
Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB,and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.
Pipe length : 25ft.(7.5 m), Height difference : 0ft.(0 m) (Outdoor unit - Indoor unit).
Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

Condensate drain pump (Standard)



Filter (Included)

ARUL7 / 9 / 12 / 14 / 18
Minimum Height Requirement 9-3/4"



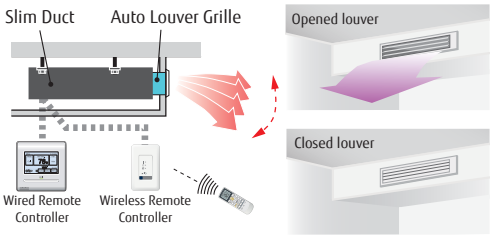
Selectable external static pressure

External static pressure can be selected from 0 up to 0.36 in. WG with remote controller.



Static pressure range
0.1 to 0.36 in.WG
(0 to 90Pa)

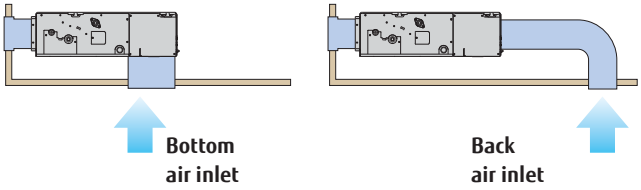
Auto Louver Grille Kit (Option)



- Operation with indoor unit
- Up and Down auto swing
- Auto-closing louver

Air inlet

Flexible with alternative air inlets to fit any layout.

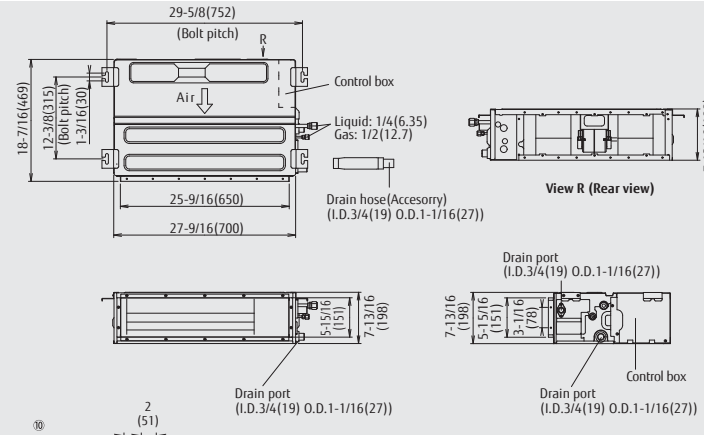


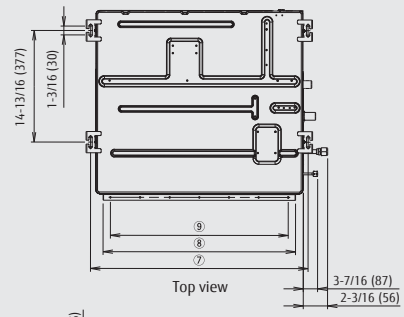
Optional Accessories

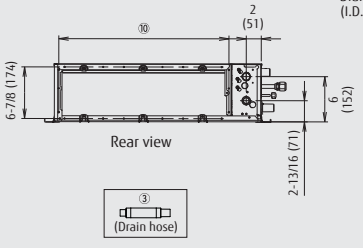
Auto Louver Grille Kit..... UTD-GXTA-W (for ARUL4TLAV2)
UTD-GXSA-W (for ARUL7/9/12/14TLAV2)
UTD-GXSB-W (for ARUL18TLAV2)
IR Receiver ..... UTB-TRH
Wireless Remote Controller ..... UTY-LNHU
Remote Sensor Unit..... UTY-XSZXZ1

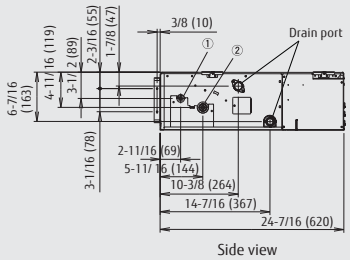
Dimensions

(Unit: In (mm))









		ARUL 7/9/12/14	ARUL 18
①	Refrigerant pipe flare connection (Liquid)	ø 1/4 (6.35)	ø 3/8 (9.52)
②	Refrigerant pipe flare connection (Gas)	ø 1/2 (12.70)	ø 5/8 (15.88)
③	Drain hose connection (Drain Hose)	ø 3/4 (I.D.), ø 1-1/16 (O.D.)	
④	—	27-9/16 (700)	35-7/16 (900)
⑤	—	26-1/8 (664)	34 (864)
⑥	—	25-9/16 (650)	33-7/16 (850)
⑦	—	28-7/8 (734)	36-3/4 (934)
⑧	—	25-9/16 (650)	33-7/16 (850)
⑨	—	3-15/16 (100) x 6 = 23-5/8 (600)	3-15/16 (100) x 8 = 31-1/2 (800)
⑩	—	22-5/8 (574)	30-1/2 (774)

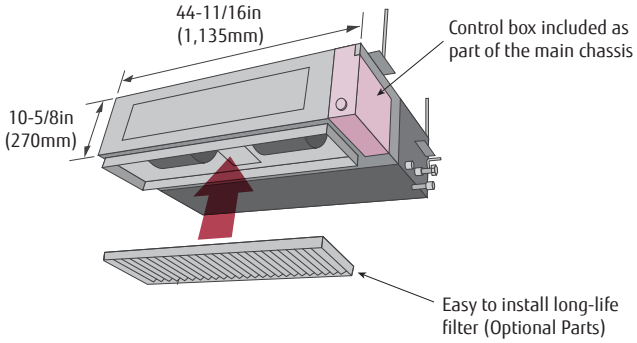
Medium Static Pressure Duct

ARUM24TLAV2
ARUM30TLAV2
ARUM36TLAV2



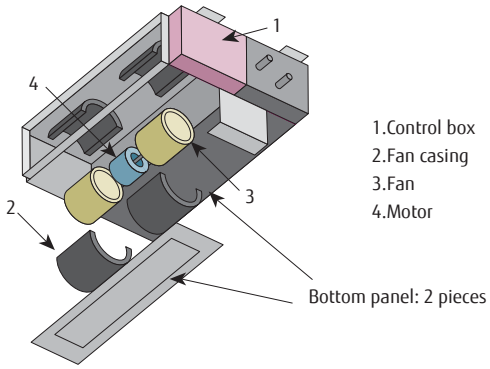
Slim & Compact design

Compact, slim height, and integrated control box makes the indoor unit suitable for applications where the height is limited.



Easy maintenance

Maintenance friendly design with easy access to motor and fan by quickly removing two bottom panels on the indoor unit.

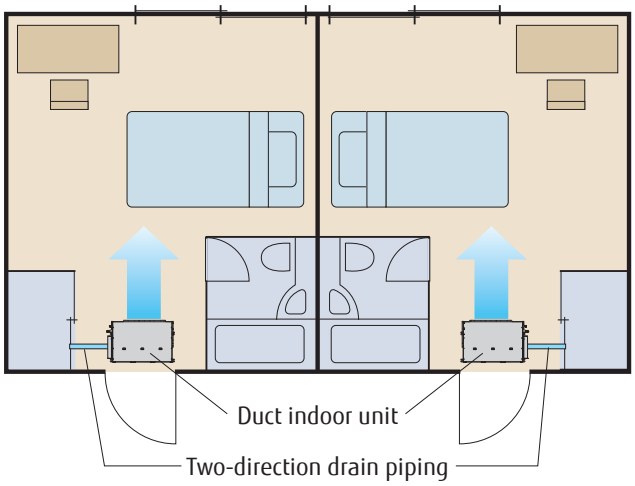


Specifications

Model name			ARUM24TLAV2	ARUM30TLAV2	ARUM36TLAV2
Power source			1 Phase ~ 208/230V 60Hz		
Capacity	Cooling	BTU/h	24,000	30,000	36,000
		kW	7.0	8.8	10.6
	Heating	BTU/h	27,000	34,000	40,000
		kW	7.9	10.0	11.7
Input power		W	125	190	222
Airflow rate	High	CFM (m^3/h)	859 (1,460)	1,042 (1,770)	1,112 (1,890)
	Med		724 (1,230)	812 (1,380)	895 (1,520)
	Low		589 (1,000)	589 (1,000)	677 (1,150)
Static pressure range		in.WG (Pa)	0 to 0.60 (0 to 150)	0 to 0.60 (0 to 150)	0 to 0.60 (0 to 150)
Standard static pressure			0.16 (40)	0.16 (40)	0.16 (40)
Sound pressure level	High	dB (A)	36	40	41
	Med		31	33	35
	Low		28	28	29
Dimensions (H × W × D)		in.(mm)	10-5/16 × 44-11/16 × 27-9/16 (270 × 1,135 × 700)		
Weight		lbs.(kg)	86 (39)	86 (39)	86 (39)
Connection pipe diameter	Liquid (Flare)	in.(mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas (Flare)		5/8 (15.88)	5/8 (15.88)	3/4 (19.05)
Condensate Drain hose diameter (I.D./O.U.)			3/4" / 1-1/16"		

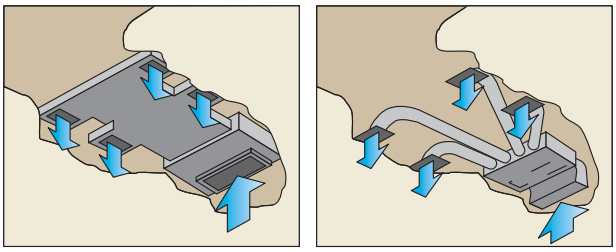
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB,and outdoor temperature of 95.0°F(35°C)DB/75°F(23.9°C)WB.
Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB,and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.
Pipe length : 25ft.(7.5 m), Height difference : 0ft.(0 m) (Outdoor unit - Indoor unit).
Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

Two-direction condensate drain piping

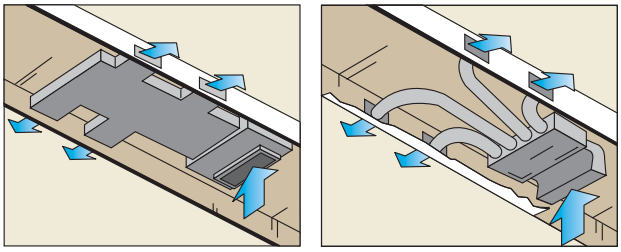


Installation styles

Embedded in Ceiling



Hanging from Ceiling



High efficiency DC fan motors

24 model



30/36 model



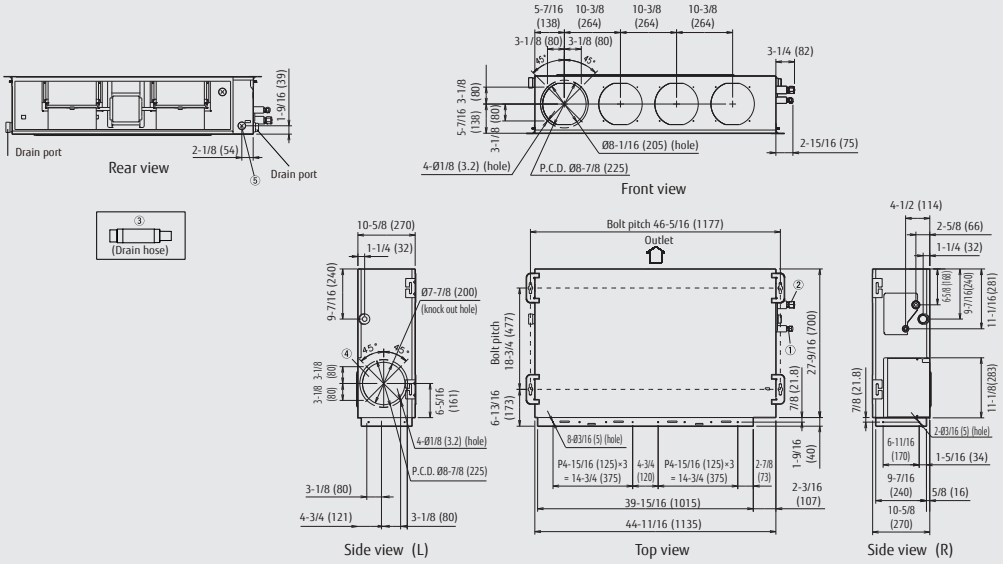
Optional Accessories

Drain Pump Unit (Externally mounted) UTZ-PU1NBA
Long Life Filter* UTD-LF25NA
Flange (Square) UTD-SF045T
Flange (Round) UTD-RF204
IR Receiver ..... UTB-TRHX
Wireless Remote Controller .....UTY-LNHU
Remote Sensor Unit..... UTY-XSZX

*Note, Medium Static Pressure Duct models do not include a standard filter.

Dimensions

(Unit: In (mm))



		ARUM 24/30	ARUM 36
①	Refrigerant pipe flare connection (Liquid)	ø 3/8 (9.52)	ø 3/8 (9.52)
②	Refrigerant pipe flare connection (Gas)	ø 5/8 (15.88)	ø 3/4 (19.05)
③	Drain hose connection (Drain Hose)	ø 3/4 (I.D.), ø 1-1/16 (O.D.)	
④	Knock out hole (fresh air)	7-7/8 (200)	7-7/8 (200)
⑤	Hole for power cable	7/8 (23)	7/8 (23)

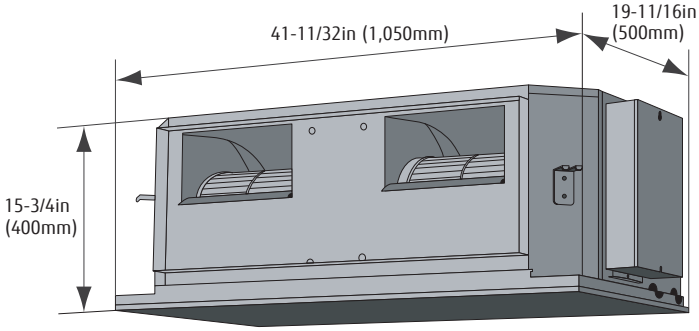
High Static Pressure Duct (3, 4, 5 ton)

ARUH36TLAV2
ARUH48TLAV2
ARUH60TLAV2



High Static Pressure Ducted Indoor units with powerful capabilities of up to 1 in. WG external static pressure.
Improved ductwork and filtration flexibility with high CFM and ESP capabilities.

Compact size for flexible installation



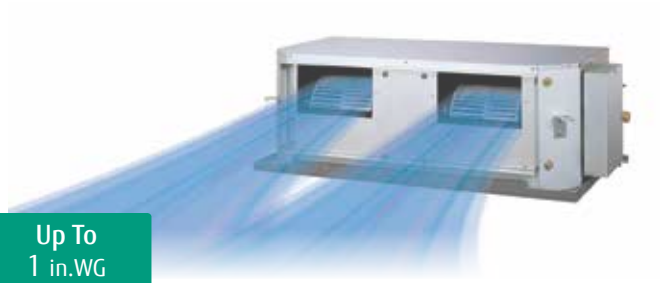
Comes with secondary drain pan installed and insulated!

Specifications

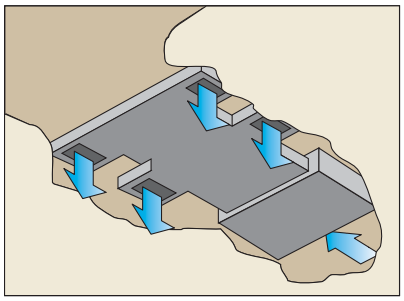
Model name			ARUH36TLAV2	ARUH48TLAV2	ARUH60TLAV2
Power source			1 Phase ~ 208/230V 60Hz		
Capacity	Cooling	BTU/h	36,000	48,000	60,000
		kW	10.6	14.1	17.6
	Heating	BTU/h	40,000	54,000	67,000
		kW	11.7	15.8	19.6
Input power		W	496	752	806
Airflow rate	High	CFM (m^3/h)	1,324 (2,250)	1,766 (3,000)	1,972 (3,350)
	Med		1,030 (1,750)	1,589 (2,700)	1,678 (2,850)
	Low		824 (1,400)	1,354 (2,300)	1,501 (2,550)
Static pressure range		in.WG (Pa)	0.40 to 0.80 (100 to 200)	0.40 to 1.00 (100 to 250)	0.40 to 1.00 (100 to 250)
Standard static pressure			0.40 (100)	0.40 (100)	0.40 (100)
Sound pressure level	High	dB (A)	43	47	48
	Med		37	43	44
	Low		32	40	41
Dimensions (H × W × D)		in.(mm)	15-3/4 × 41-5/16 × 19-11/16 (400 × 1,050 × 500)		
Weight		lbs.(kg)	97 (44)	101 (46)	101 (46)
Connection pipe diameter	Liquid (Flare)	in.(mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas (Flare)		3/4 (19.05)	3/4 (19.05)	3/4 (19.05)
Condensate Drain hose diameter (I.D./O.U.)			3/4" / 1-1/16"		

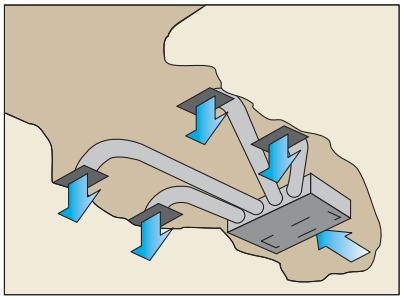
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB,and outdoor temperature of 95.0°F(35°C)DB/75°F(23.9°C)WB.
Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB,and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.
Pipe length : 25ft.(7.5 m), Height difference : 0ft.(0 m) (Outdoor unit - Indoor unit).
Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

High static pressure design



Up To
1 in.WG
(250Pa)
(ARUH48/60)

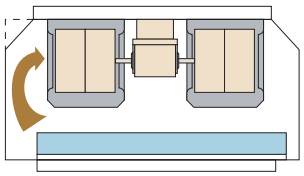


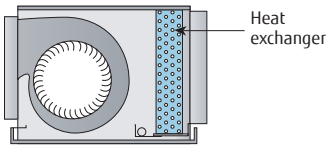


Quiet operation

Indoor unit

Optimized unit chassis design reduces internal air turbulence and lowers the sound levels.

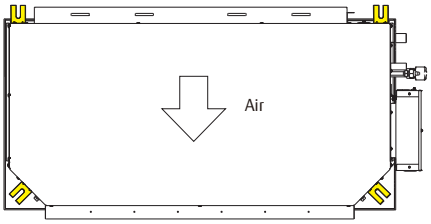




Optional Accessories

Long-Life Filter* UTD-LF60KA
IR Receiver ..... UTB-TRHX
Wireless Remote Controller ..... UTY-LNHU
Remote Sensor Unit ..... UTY-XSZX
*Note, High Static Pressure Duct models do not include a standard filter.

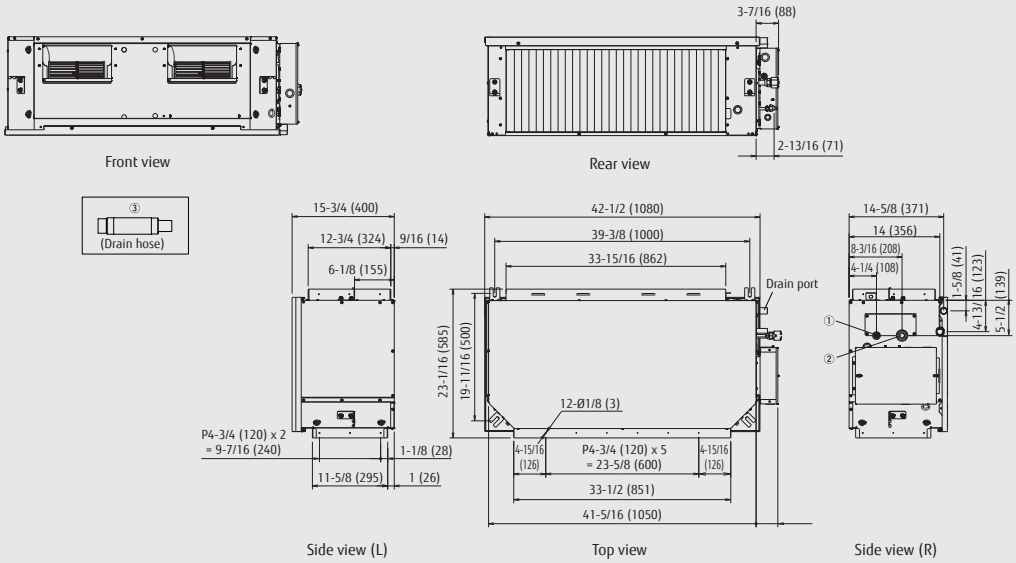
Integral Mounting Brackets



Top view

Dimensions

(Unit: In (mm))



	ARUH 36/48/60
① Refrigerant pipe flare connection (Liquid)	ø 3/8 (9.52)
② Refrigerant pipe flare connection (Gas)	ø 3/4 (19.05)
③ Drain hose connection (Drain Hose)	ø 3/4 (I.D.), ø 1-1/16 (O.D.)

Economizer and filter box options are available through affiliated third party. Ask your local Fujitsu AIRSTAGE distributor for details.

High Static Pressure Duct (6, 8 ton)

ARUH72TLAV2
ARUH96TLAV2





High capacity and High Static Pressure Ducted Indoor units with powerful capabilities of up to 1.2in. WG external static pressure. Improved ductwork and filtration flexibility with high CFM and ESP capabilities.



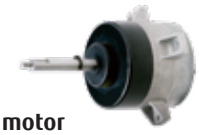
Comes with secondary drain pan installed and insulated!

Specifications

Model name			ARUH72TLAV2	ARUH96TLAV2
Power source			1 Phase ~ 208/230V 60Hz	
Capacity	Cooling	BTU/h	72,000	96,000
		kW	21.1	28.1
	Heating	BTU/h	81,000	108,000
		kW	23.7	31.7
Input power		W	618	838
Airflow rate	High	CFM (m^3/h)	2296 (3900)	2855 (4850)
	Med		1942 (3300)	2502 (4250)
	Low		1766 (3000)	2119 (3600)
Static pressure range		in.WG (Pa)	0 to 1.2 (0 to 300)	0 to 1.2 (0 to 300)
Standard static pressure			0.6 (150)	0.6 (150)
Sound pressure level	High	dB (A)	47	48
	Med		43	45
	Low		40	42
Dimensions (H × W × D)		in.(mm)	17-11/16 × 62-1/2 × 27-9/16 (450 × 1587 × 700)	21-5/8 × 62-1/2 × 27-9/16 (550 × 1587 × 700)
Weight		lbs.(kg)	203 (92)	231(105)
Connection pipe diameter	Liquid (Flare)	in.(mm)	1/2 (12.70)	1/2 (12.70)
	Gas (Flare)		7/8 (22.22)	7/8 (22.22)
Condensate Drain hose diameter (I.D./O.U.)			3/4" / 1-1/16"	

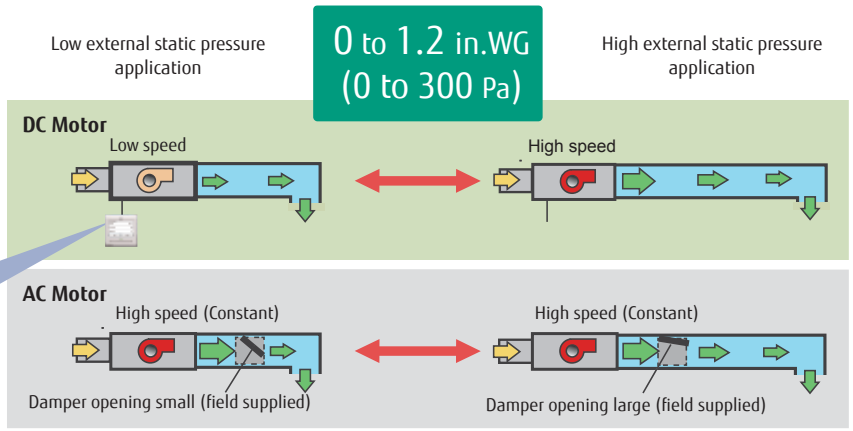
DC fan motor for energy efficiency and design flexibility

With an adjustable static pressure range up to 1.2 in.WG and efficient DC fan motor, the High Static Pressure ducted indoor units are designed for flexibility and efficiency.



DC fan motor





Easy service & maintenance

Each fan motor can be removed individually, if required, for easy service.



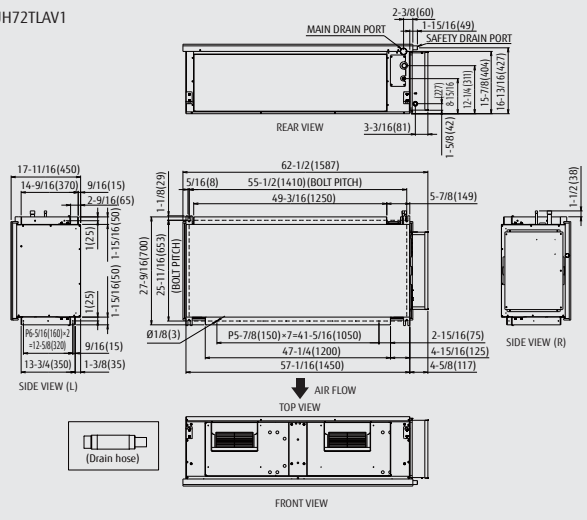
Optional Accessories

IR Receiver ..... UTB-TRH
Wireless Remote Controller ..... UTY-LNHU
Remote Sensor Unit ..... UTY-XSZX

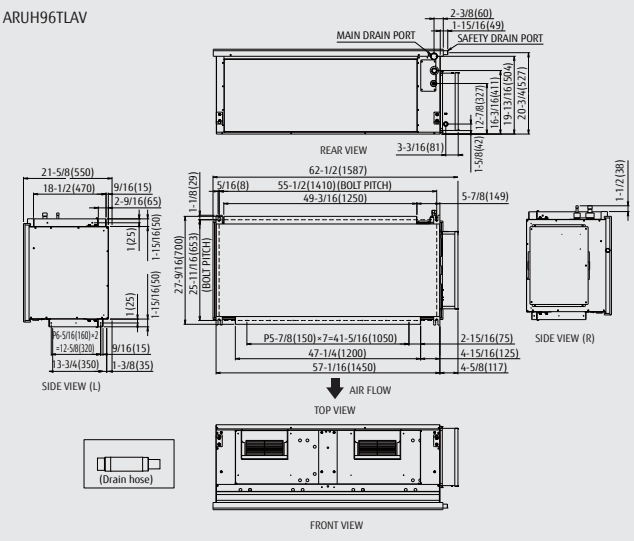
Dimensions

(Unit: In (mm))

ARUH72TLAV1



ARUH96TLAV



Multi-Position Air Handling Unit

ARUX12TLAV2
ARUX18TLAV2
ARUX24TLAV2
ARUX30TLAV2
ARUX36TLAV2
ARUX48TLAV2
ARUX60TLAV2

Static Pressure Range
0.1 to 0.8 in.W.G
(25 to 200Pa)



ARUX12TLAV2
ARUX18TLAV2
ARUX24TLAV2



ARUX30TLAV2
ARUX36TLAV2



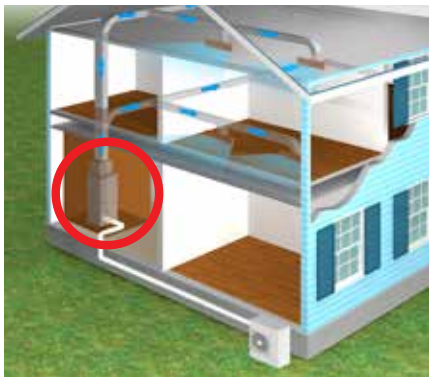
ARUX48TLAV2
ARUX60TLAV2

Flexible Installation and Wide Static Pressure Range

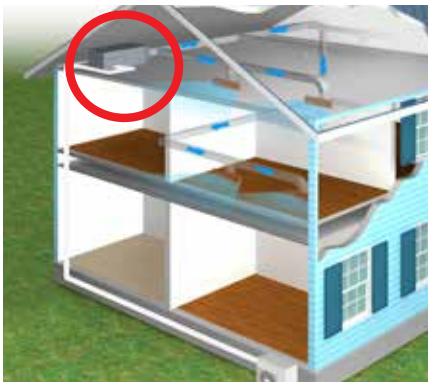
Flexible and compact design to suit most light commercial and residential applications.
At 43" tall and only 17-1/2" wide for up to 2 tons, the unit can be installed in tight closet spaces.

Optimum Temperature Control Using Backup Heater (Optional)

Control operation of auxiliary heaters depending on the difference between room temperature and set temperature to maintain optimum comfort. Order heater kits from your local Fujitsu distributor. See table below for sizing.



UP FLOW
Installed in basement or in a narrow closet, distributing conditioned air to the rooms.

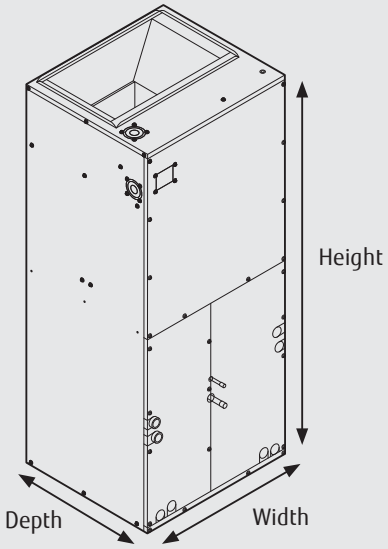


HORIZONTAL LEFT / RIGHT AIRFLOW
Installed horizontally in the attic, with overhead distribution of conditioned air to the rooms.

Dimensions

(Unit: In (mm))

	ARUX12-18-24TLAV2	ARUX30-36TLAV2	ARUX48-60TLAV2
Height	43 in. (1,092 mm)	48 in. (1,219 mm)	58.75 in. (1,492 mm)
Width	17.5 in. (444 mm)	21 in. (533 mm)	24.5 in. (622 mm)
Depth	21 in. (533 mm)	21 in. (533 mm)	21.75 in. (533 mm)



Ton	Indoor unit	Heater model name	VOLTS	kW	Heater AMPS	Minimum circuit ampacity	Maximum fuse or HACR circuit breaker
1	ARUX12TLAV2	UTZ-EU02MSA	240	2	8.33	10.5	15
		UTZ-EU04MSA2	240	4	8.4/8.4	10.5	15/15 *
1.5	ARUX18TLAV2	UTZ-EU03MSA	240	3	12.5	15.7	20
		UTZ-EU06MSA2	240	6	12.5/12.5	15.7/15.7	20/20 *
2	ARUX24TLAV2	UTZ-EU02MSA	240	2	8.4	10.5	15
		UTZ-EU04MSA	240	4	16.7	20.9	25
		UTZ-EU08MSA2	240	8	16.7/16.7	20.9/20.9	25/25 *
2.5	ARUX30TLAV2	UTZ-EU03MMA	240	3	12.5	15.7	20
		UTZ-EU05MMA	240	5	20.9	26.1	30
		UTZ-EU10MMA2	240	10	20.9/20.9	26.1/26.1	30/30
3	ARUX36TLAV2	UTZ-EU03MMA	240	3	12.5	15.7	20
		UTZ-EU06MMA	240	6	25.0	31.3	35
		UTZ-EU12MMA2	240	12	25.0/25.0	31.3/31.3	40/40
4	ARUX48TLAV2	UTZ-EU05MLA	240	5	20.9	26.1	30
		UTZ-EU08MLA	240	8	33.4	41.7	45
		UTZ-EU16MLA2	240	16	33.4/33.4	41.7/41.7	45/45
5	ARUX60TLAV2	UTZ-EU05MLA	240	5	20.9	26.1	30
		UTZ-EU10MLA	240	10	41.7	52.1	60
		UTZ-EU20MLA2	240	20	41.7/41.7	52.1/52.1	60/60

* Locally purchased

Options

Compatible with a variety of controller options, such as individual controller, central controller and building management controller.

Kagami Wired Remote Control ..... UTY-RVRU
Wired Remote Controller UTY-RNRUZ5
Simple Remote Controller ..... UTY-RHRY
Wireless Remote Controller / IR Receiver ..... UTY-LNHU / UTY-TRHX
Wireless LAN Adapter UTY-TFSXJ4
External Switch Controller ..... UTY-TERX
AIRSTAGE Edge Controller UTY-DSGYZ2
Central Remote Controller UTY-DCGYZ2
System Controller UTY-APGXZ1
System Controller Lite UTY-ALGXZ1
Service Tool UTY-ASGXZ1-KIT
Web Monitoring Tool UTY-AMGXZ1
Remote Sensor Unit ..... UTY-XSZX
MODBUS Converter ..... UTY-VMSX / UTY-VMGX

BACnet® Gateway ..... FUJ-VRF-8025/8125 (AIM)
UTY-VBGX (Hardware)
UTY-ABGXZ1 (Software)
External Power Supply Unit ..... UTZ-GXXA
Thermostat Converter ..... UTY-TTRXZ1 / TTRXZ1-KIT
Network Converter ..... UTY-VTGX (DC power supply)
UTY-VGGXZ1 (AC power supply)
Highrise 360 Kit ..... UTY-SPWX
Network Converter for LONWORKS® ..... UTY-VLGX
Signal Amplifier UTY-VSGXZ1
External Connect Kit ..... UTY-XWZXZB / UTY-XWZXZD
UTY-XWZXZ7 / UTY-XWZXZE
UTY-XWZXZC / UTY-XWZXZK

Specifications

Model name				ARUX12TLAV2	ARUX18TLAV2	ARUX24TLAV2	ARUX30TLAV2	ARUX36TLAV2	ARUX48TLAV2	ARUX60TLAV2
Power supply				1 phase ~ 208/230 V 60 Hz						
Available voltage range				187–253 V						
Capacity	Cooling		Btu/h	12,000	18,000	24,000	30,000	36,000	48,000	60,000
			kW	3.5	5.3	7.0	8.8	10.6	14.1	17.6
	Heating		Btu/h	13,500	20,000	27,000	34,000	40,000	54,000	67,000
			kW	4.0	5.9	7.9	10.0	11.7	15.8	19.6
Input power			W	77	99	148	180	241	322	521
Static pressure range			inWG (Pa)	0.10 to 0.80 (25 to 200)						
Standard static pressure			inWG (Pa)	0.50 (125)						
Fan	Airflow rate	HIGH	CFM (m3/h)	350 (595)	500 (850)	650 (1,104)	880 (1,495)	1,050 (1,784)	1,400 (2,379)	1,700 (2,888)
		MED		320 (544)	450 (765)	590 (1,002)	800 (1,359)	950 (1,614)	1,260 (2,141)	1,550 (2,633)
		LOW		290 (493)	400 (680)	510 (866)	730 (1,240)	850 (1,444)	1,130 (1,920)	1,340 (2,277)
	Type × Q'ty			Sirocco × 1						
	Motor output		W	249			373		560	
Sound pressure level*		HIGH	dB (A)	37	38	40	42	44	46	48
		MED		35	36	37	40	42	44	46
		LOW		33	34	34	38	40	42	42
Heat exchanger type	Length		in (mm)	16 (406)	16 (406)	16 (406)	16 (406)	16 (406)	17-1/2 (446)	17-1/2 (446)
	Fin pitch		FPI	16	16	16	14	14	14	14
	Rows × Stages			4 × 14	2 × 18	2 × 18	3 × 22	3 × 22	3 × 30	4× 30
	Face area		ft2 (m2)	2.6 (0.24)	3.3(0.31)	3.3(0.31)	4.0 (0.38)	4.0 (0.38)	6.0 (0.56)	6.0 (0.56)
	Pipe type (Material)			Grooved H-pin (Copper)						
				Louver (Aluminum)						
	Fin	Type (Material)		Louver (Aluminum)						
		Surface treatment								
Enclosure	Material			Painted galvanized steel sheet						
	Color			Gray						
Dimensions (H × W × D)	Net		in (mm)	43 × 17-1/2 × 21 (1,092 × 444 × 533)			48 × 21 × 21 (1,219 × 533 × 533)		58-3/4 × 24-1/2 × 21-3/4 (1,492 × 622 × 552)	
	Gross			45 × 19-3/4 × 26-3/4 (1,143 × 502 × 679)			52 × 23 × 26-3/4 (1,321 × 584 × 679)		63 × 27 × 27-1/2 (1600 × 686 × 699)	
Weight	Net		lb (kg)	100 (45.4)	102 (46.3)	102 (46.3)	126 (57.2)	126 (57.2)	172 (78.0)	181 (82.1)
	Gross			111 (50.3)	113 (51.3)	113 (51.3)	139 (63.0)	139 (63.0)	187 (84.8)	196 (88.9)
Connection pipe diameter	Liquid		in (mm)	Ø 1/4 (6.35)	Ø 1/4 (6.35)	Ø 1/4 (6.35)	Ø 3/8 (9.52)	Ø 3/8 (9.52)	Ø 3/8 (9.52)	Ø 3/8 (9.52)
	Gas			Ø 1/2 (12.70)	Ø 1/2 (12.70)	Ø 1/2 (12.70)	Ø 5/8 (15.88)	Ø 5/8 (15.88)	Ø 5/8 (15.88)	Ø 5/8 (15.88)
	Connection method			Brazing						
Drain hose			in (mm)	I.D.: Ø 3/4 (19.05)						

NOTES:
Specifications are based on the following conditions:
- Cooling: Indoor temperature of 80 °FDB/67 °FWB (26.7 °CDB/19.4 °CWB), and outdoor temperature of 95 °FDB/75 °FWB (35 °CDB/23.9 °CWB).
- Heating: Indoor temperature of 70 °FDB/60 °FWB (21.1 °CDB/15.6 °CWB), and outdoor temperature of 47 °FDB/43 °FWB (8.3 °CDB/6.1 °CWB).
- Pipe length: 25 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.)

Protective function might work when using it outside the operation range.
*: Sound pressure level:
- Measured values in manufacturer's anechoic chamber.
- Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

Actual product color may be different from the colors shown here. Specifications and design are subject to change without notice.
"AIRSTAGE" is a worldwide trademark of FUJITSU GENERAL LIMITED and is a registered trademark in Japan and other countries or areas.

Floor Mount

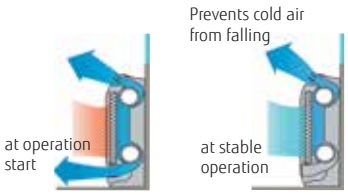
AGUA4TLAV2
AGUA7TLAV2
AGUA9TLAV2
AGUA12TLAV2
AGUA14TLAV2



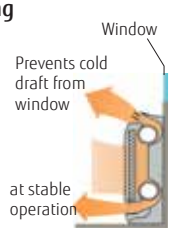
Dual Fans and Wide Airflow

Individual vertical airflow by 2 fans for optimized air distribution and comfort in the entire room.

Cooling

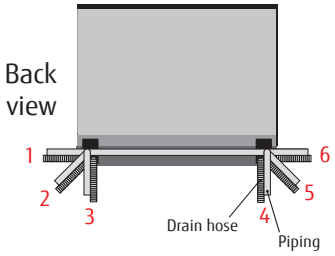


Heating



Flexible Piping Connection

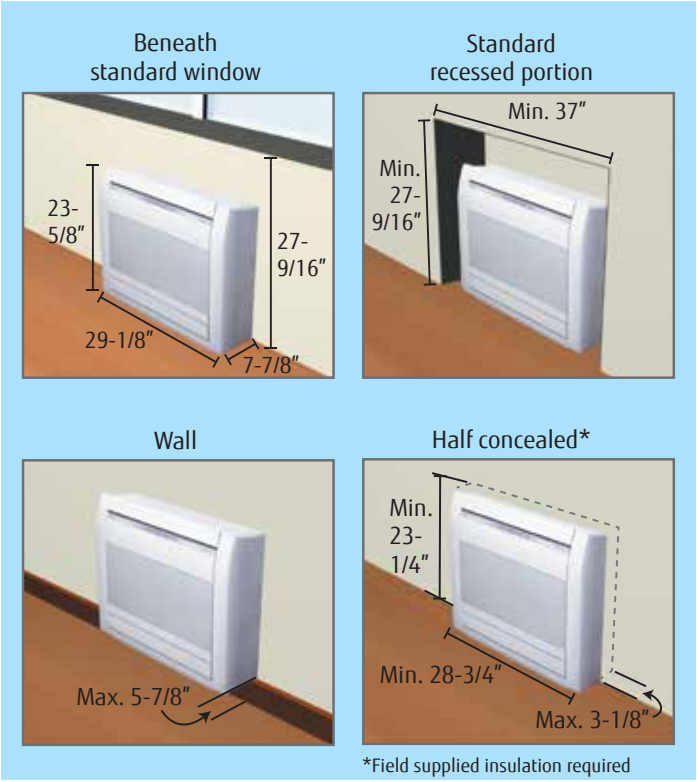
Flexible installation with 6 positions for condensate drain hose and piping to choose from: right, left, side and down positions.



Specifications

Model name			AGUA4TLAV2	AGUA7TLAV2	AGUA9TLAV2	AGUA12TLAV2	AGUA14TLAV2
Power Source			1 Phase - 208 / 230V ~ 60Hz				
Capacity	Cooling	BTU/h	4,000	7,500	9,500	12,000	14,000
		kW	1.2	2.2	2.8	3.5	4.1
	Heating	BTU/h	4,400	9,500	10,900	13,500	15,600
		kW	1.3	2.8	3.2	4.0	4.6
Input Power		W	12 / 14	16	17	22	29
Max. Operating Current		A	0.19 / 0.22	0.24	0.25	0.30	0.38
Airflow rate	High	CFM (m^3/h)	224 (380) / 253 (430)*	277 (470)	294 (500)	347 (590)	394 (670)
	Med-Hi		206 (350)	247 (420)	265 (450)	306 (520)	347 (590)
	Med		188 (320)	230 (390)	235 (400)	277 (470)	306 (520)
	Lo-Hi		182 (310)	212 (360)	212 (360)	247 (420)	265 (450)
	Low		165 (280)	194 (330)	194 (330)	230 (390)	230 (390)
	Quiet		124 (210)	159 (270)	159 (270)	200 (340)	200 (340)
Sound pressure level	High	dB(A)	35/36*	37	38	42	46
	Med-Hi		33	35	36	39	42
	Med		31	33	34	37	39
	Lo-Hi		30	31	31	35	36
	Low		28	29	29	33	33
	Quiet		22	22	22	30	30
Dimensions (H x W x D)		in.(mm)	23-5/8 × 29-1/8 × 7-7/8 (600 × 740 × 200)				
Weight		lbs.(kg)	33 (15)	33 (15)	33 (15)	33 (15)	33 (15)
Connection pipe diameter	Liquid (Flare)	in.(mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
	Gas (Flare)		3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	1/2 (12.70)	1/2 (12.70)
Condensate Drain hose diameter (I.D./O.D.)		in.	9/16 / 5/8 to 11/16				

Note: Specifications are based on the following conditions: Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.
Cooling: Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB; and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB. Heating: Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB, and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB. Pipe Length : 25ft. (7.5m), Height difference : 0ft.(0m) (Outdoor unit - indoor unit).
*Cooling operation / heating operation.



*Field supplied insulation required

Quiet Operation

With 6 fan speeds to choose from, floor mounted models operate as quietly as 22 dB(A).



6-Step Speed

- High
- Med-Hi
- Med
- Lo-Hi
- Low
- Quiet

Flexible and Easy Installation

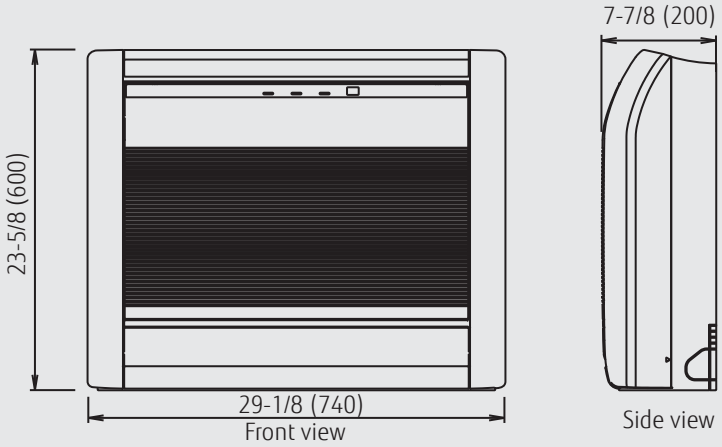
At less than 24″ high and 30″ wide, floor mount models fit easily under a standard window and can replace a traditional radiator twice its size while producing more capacity.

Optional Accessories

Kagami Wired Remote Control	UTY-RVRU
Wired Remote Controller	UTY-RNRUZ*
Simple Remote Controller	UTY-RSRY, UTY-RHRY
Wireless Remote Controller	UTY-LNHU
Half Concealed Kit	UTR-STA

Dimensions

(Unit: In (mm))



Floor / Ceiling

ABUA12TLAV2
ABUA14TLAV2
ABUA18TLAV2
ABUA24TLAV2



The slim and lightweight design allows the unit to be suspended horizontally from the ceiling or installed vertically on the floor, offering flexibility in design and installation.

Note: IR Receiver is standard for communicating with optional Wireless Remote Control.

Flexible installation

Example of floor installation



Example of ceiling installation



Specifications

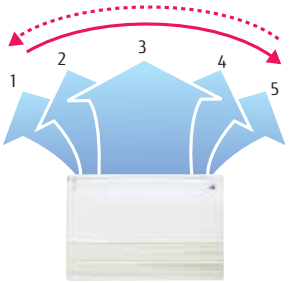
Model name			ABUA12TLAV2	ABUA14TLAV2	ABUA18TLAV2	ABUA24TLAV2
Power source			1 Phase ~ 208/230V 60Hz			
Capacity	Cooling	BTU/h	12,000	14,000	18,000	24,000
		kW	3.5	4.1	5.3	7.0
	Heating	BTU/h	13,500	15,600	20,000	27,000
		kW	4.0	4.6	5.9	7.9
Input power		W	30	42	74	99
Airflow rate	High	CFM (m^3/h)	388 (660)	459 (780)	589 (1,000)	589 (1,000)
	Med		336 (570)	377 (640)	424 (720)	483 (820)
	Low		288 (490)	324 (550)	341 (580)	400 (680)
Sound pressure level	High	dB (A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Dimensions (H × W × D)		in.(mm)	7-13/16 × 39 × 25-13/16 (199 × 990 × 655)			
Weight		lbs.(kg)	56 (25)	57 (26)	57 (26)	60 (27)
Connection pipe diameter	Liquid (Flare)	in.(mm)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)
	Gas (Flare)		1/2 (12.70)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
Condensate Drain hose diameter (I.D./O.U.)			3/4" / 1-1/16"			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB,and outdoor temperature of 95.0°F(35°C)DB/75°F(23.9°C)WB.
Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB,and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.
Pipe length : 25ft.(7.5 m), Height difference : 0ft.(0 m) (Outdoor unit - Indoor unit).
Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

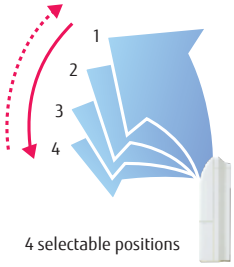
Flexible four-way louver swing

Combination of up/down and right/left directional louver swing provides excellent air distribution especially in large spaces.

RIGHT and LEFT SWING



UP and DOWN SWING



4 selectable positions

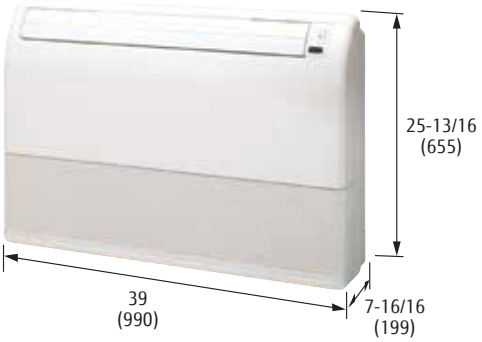
Auto-closing louver

When operation is stopped, the louvers will automatically close.

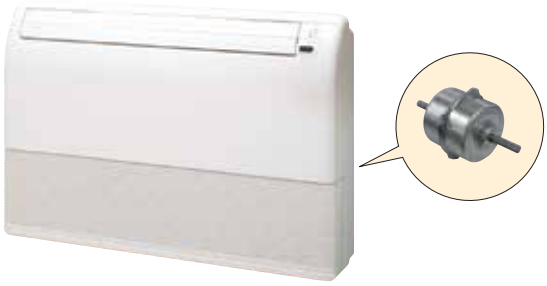
Compact design

Symmetric, slim and compact design.

Unit : in (mm)



Efficient and powerful DC fan motor

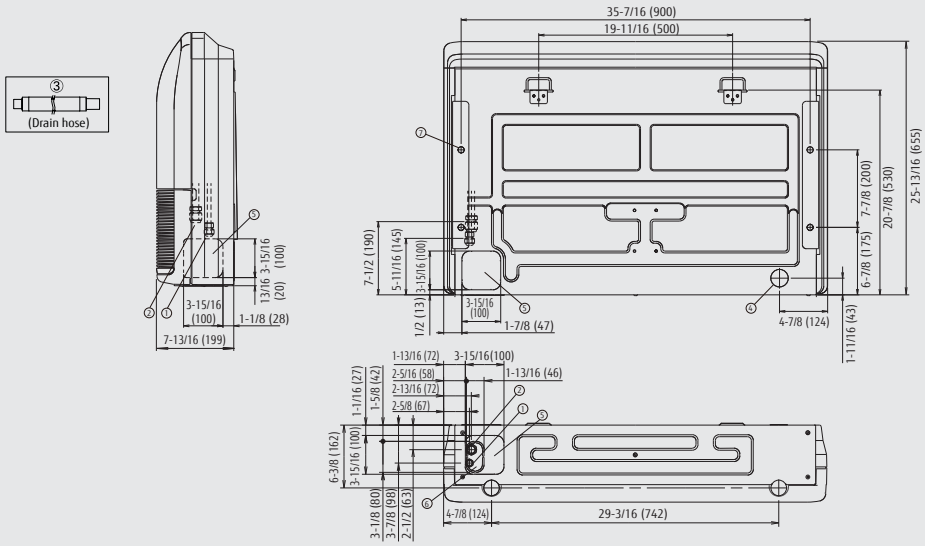


Optional Accessories

Wireless Remote Controller.....UTY-LNHU

Dimensions

(Unit: In (mm))



		ABUA 12/14	ABUA 18/24
①	Refrigerant pipe flare connection (Liquid)	ø 1/4 (6.35)	ø 3/8 (9.52)
②	Refrigerant pipe flare connection (Gas)	ø 1/2 (12.70)	ø 5/8 (15.88)
③	Drain hose connection (Drain Hose)	ø 3/4 (I.D.), ø 1-1/16 (O.D.)	
④	Knock out hole (Drain Outlet)	ø 1-3/4 (45)	ø 1-3/4 (45)
⑤ ⑥	Knock out hole	—	—
⑦	Hole for lifting bolt	Use M10 screw bolt	

Ceiling



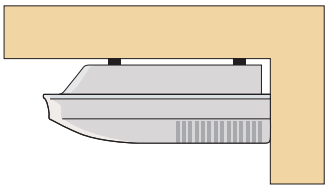
ABUA30TLAV2
ABUA36TLAV2

Slim and elegant design makes the ceiling-suspended indoor unit a great fit for any light commercial applications such as retail stores, restaurants, conference rooms. Optimized air openings provide a comfortable air flow and low sound levels.

Note: IR Receiver is standard for communicating with optional Wireless Remote Control.

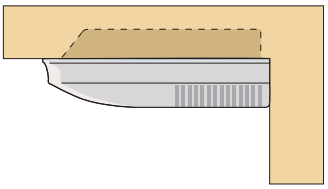
Installation

Open



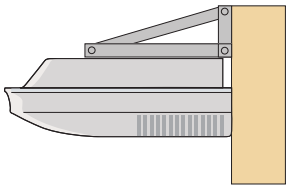
Standard installation with unit suspended from the ceiling.

Concealed



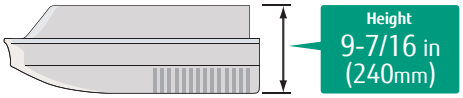
Partially recessed installation.

Wall mounted



Efficient air distribution with long throw ensures comfort even in large rooms.

Slim & Compact design



Efficient and powerful DC fan motor



Specifications

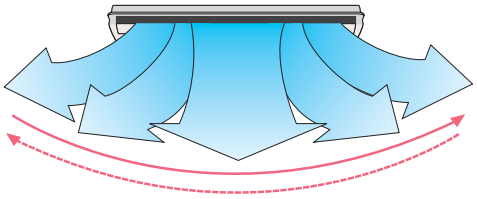
Model name			ABUA30TLAV2	ABUA36TLAV2
Power source			1 Phase ~ 208/230V 60Hz	
Capacity	Cooling	BTU/h	30,000	36,000
		kW	8.8	10.6
	Heating	BTU/h	34,000	40,000
		kW	10.0	11.7
Input power		W	85	85
Airflow rate	High	CFM (m^3/h)	859 (1,630)	995 (1,690)
	Med		806 (1,370)	824 (1,400)
	Low		671 (1,140)	689 (1,170)
Sound pressure level	High	dB (A)	42	45
	Med		38	38
	Low		33	34
Dimensions (H × W × D)		in.(mm)	9-7/16 × 65-3/8 × 27 -9/16 (240 × 1,660 × 700)	
Weight		lbs.(kg)	101 (46)	106 (48)
Connection pipe diameter	Liquid (Flare)	in.(mm)	3/8 (9.52)	3/8 (9.52)
	Gas (Flare)		5/8 (15.88)	3/4 (19.05)
Condensate Drain hose diameter (I.D./O.U.)			3/4" / 1-1/16"	

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB,and outdoor temperature of 95.0°F(35°C)DB/75°F(23.9°C)WB.
Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB,and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.
Pipe length : 25ft.(7.5 m), Height difference : 0ft.(0 m) (Outdoor unit - Indoor unit).
Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.

Four-way louver swing

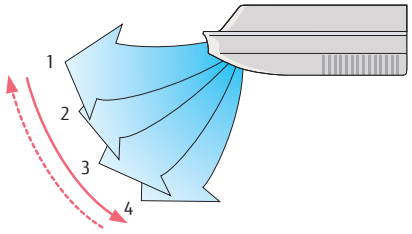
Auto airflow direction and auto swing

Right and left



5 selectable positions

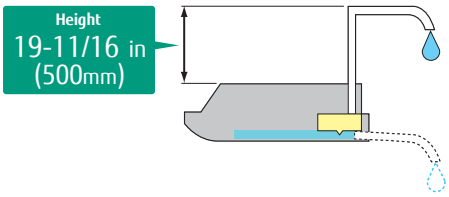
Up and down



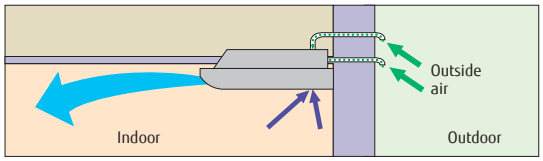
4 selectable positions

Condensate drain pump (Optional)

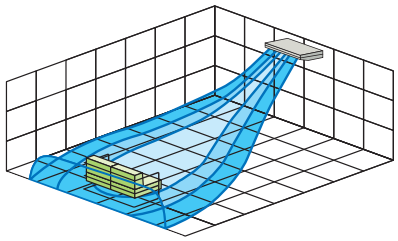
Installation flexibility with optional condensate drain pump.



Outside air intake



Efficient air distribution



Air filter

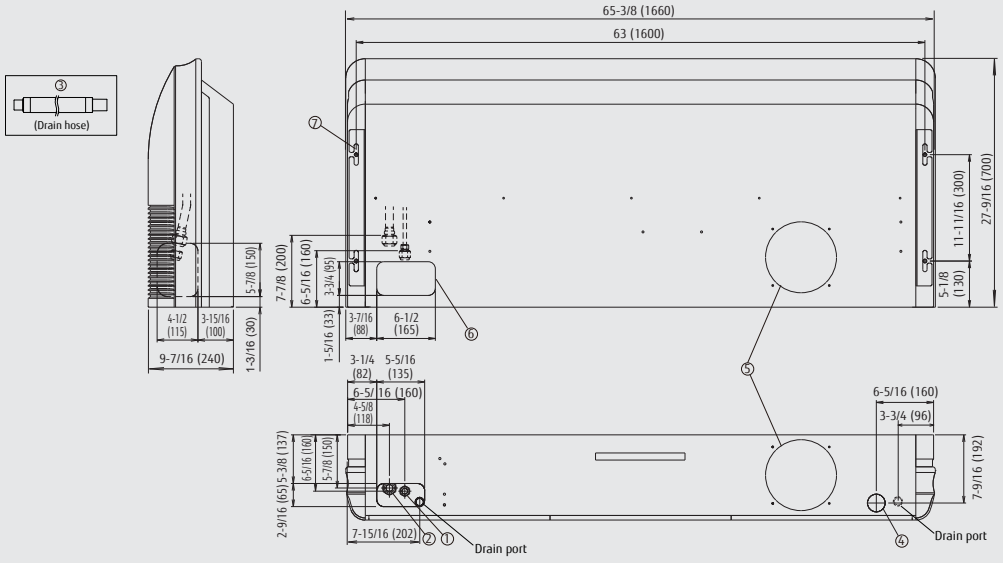
High Efficiency long-life filter can double the life of the filter compared to standard filters.

Optional Accessories

Wireless Remote Control.....UTY-LNHU
Drain Pump Unit.....UTZ-PU1EBA / UTR-DPB24T
Flange..... UTD-RF204

Dimensions

(Unit: In (mm))



		ABUA 30	ABUA 36
①	Refrigerant pipe flare connection (Liquid)	ø 3/8 (9.52)	ø 3/8 (9.52)
②	Refrigerant pipe flare connection (Gas)	ø 5/8 (15.88)	ø 3/4 (19.05)
③	Drain hose connection (Drain Hose)	ø 3/4 (I.D.), ø 1-1/16 (O.D.)	
④	Knock out hole (Drain Outlet)	ø 1-15/16 (50)	ø 1-15/16 (50)
⑤	Knock out hole (Outside Air)	ø 7-7/8 (200)	ø 7-7/8 (200)
⑥	Knock out hole (Refrigerant Pipe)	—	—
⑦	Hole for lifting bolt	Use M10 screw bolt	

Compact Wall Mounted

ASUA4TLAV2
ASUA7TLVA2
ASUA9TLAV2
ASUA12TLVA2
ASUA14TLAV2



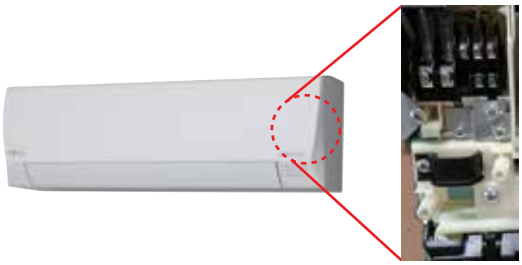
4/7/9,000 BTU/h



12/14,000 BTU/h

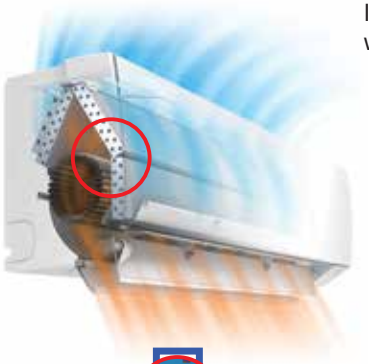
Easy Installation

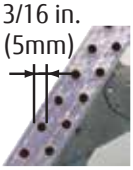
Wiring can be easily connected by opening the front panel and wire cover.

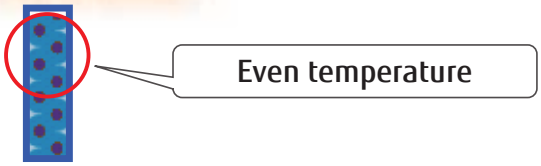


High density heat exchanger

Increased heat transfer efficiency with thin tube technology.

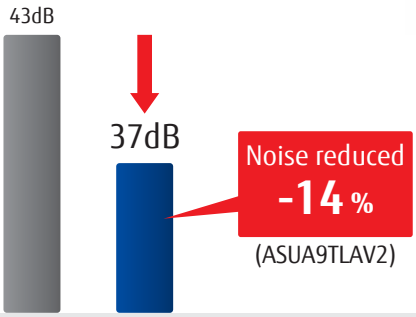






Quiet operation

Improved airflow pattern reduces noise significantly.



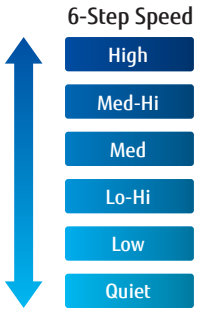
Specifications

Model name			ASUA4TLAV2	ASUA7TLVA2	ASUA9TLAV2	ASUA12TLVA2	ASUA14TLAV2
Power Source			1 Phase - 208 / 230V ~ 60Hz				
Capacity	Cooling	BTU/h	4,000	7,500	9,500	12,000	14,000
		kW	1.2	2.2	2.8	3.5	4.2
	Heating	BTU/h	4,400	9,500	10,900	13,500	15,600
		kW	1.3	2.8	3.2	4.0	4.6
Input Power		W	13	19	34	25	36
Airflow rate	High	CFM (m^3/h)	253 (430)	324 (550)	424 (720)	406 (690)	471 (800)
	Med-Hi		247 (420)	271 (460)	336 (570)	359 (610)	436 (740)
	Med		230 (390)	247 (420)	294 (500)	330 (560)	400 (680)
	Lo-Hi		224 (380)	230 (390)	241 (410)	312 (530)	359 (610)
	Low		212 (360)	212 (360)	212 (360)	277 (470)	324 (550)
	Quiet		194 (330)	194 (330)	194 (330)	194 (330)	194 (330)
Sound pressure level	High	dB(A)	31	35	43	40	44
	Med-Hi		30	32	38	37	42
	Med		28	30	34	35	40
	Lo-Hi		26	27	29	33	37
	Low		24	24	24	30	34
	Quiet		22	22	22	24	24
Dimensions (H x W x D)		in.(mm)	10-5/16 × 32-5/16 × 8-1/8 (262 × 820 × 206)			10-9/16 × 33-1/16 × 8 (268 × 840 × 203)	
Weight		lbs.(kg)	17 (7.5)	17 (7.5)	17 (7.5)	20 (9)	20 (9)
Connection pipe diameter	Liquid (Flare)	in.(mm)	Ø1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)
	Gas (Flare)		Ø3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	1/2 (12.70)	1/2 (12.70)
Condensate Drain hose diameter (I.D./O.D.) in.			9/16 / 5/8 to 11/16				

Note : Specifications are based on the following conditions: Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB; and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB. Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB, and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB. Pipe Length : 25ft. (7.5m), Height difference : 0ft.(0m)(Outdoor unit - indoor unit).
*Cooling / Heating

6-speed fan control (ASUA4TLAV2 only)

With 6 fan speeds to choose from, these wall mounted models operate as quietly as 22 dB(A).





Six-speed fan control available through the following Remotes and Controllers:
UTY-RVRU / UTY-RNRUZ* / UTY-RSRY / UTY-RHRY / UTY-DSGYZ2 / UTY-DCGYZ2 / UTY-ALGXZ1 / UTY-APGXZ1

Comfortable airflow

Models ASUA12/14TLAV2
UNIQUE POWER DIFFUSER

Heating

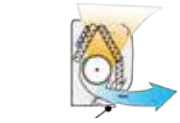
Vertical airflow provides powerful floor level heating





Cooling

Horizontal airflow does not supply cool air directly at the occupants in the room.



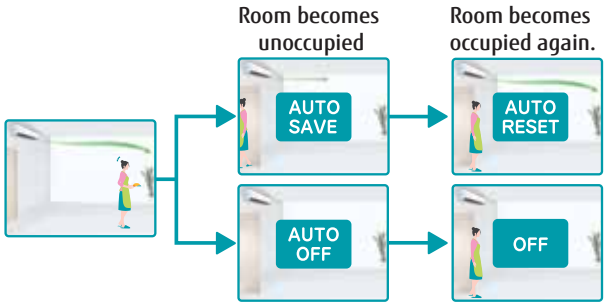


Occupancy / Human sensor function

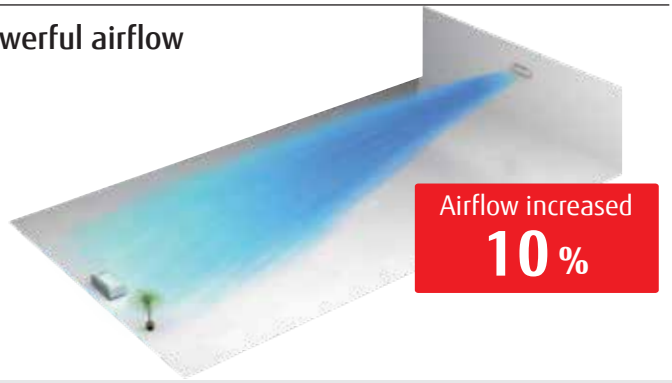
Models ASUA12/14TLAV2

The energy saving occupancy function can, via the optional Wired Remote Controller, be set to turn off the unit or change to power saving mode when a room becomes unoccupied.





Powerful airflow



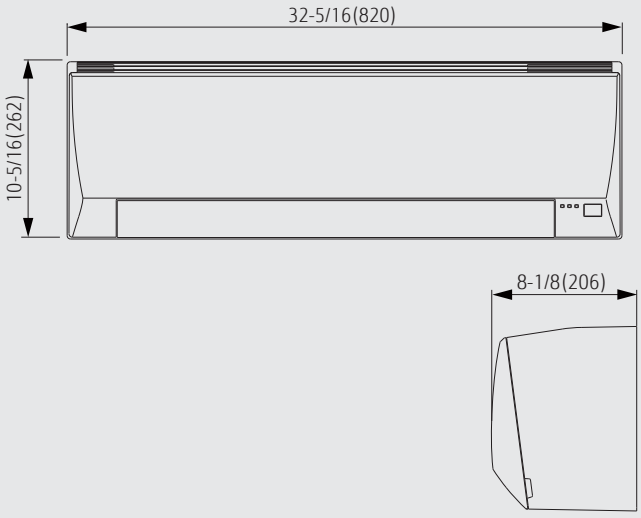
Optional Accessories

Kagami Wired Remote Control ..... UTY-RVRU
Wired Remote Control (Touch Panel): ..... UTY-RNRUZ*
Simple Remote Control: ..... UTY-RSRY, UTY-RHRY
Wireless Remote Control: ..... UTY-LNHU

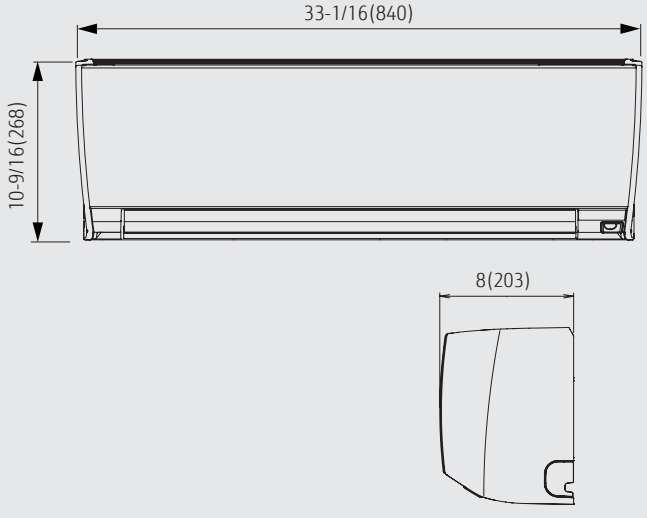
Dimensions

(Unit: In (mm))

Models:
ASUA4TLAV2 / ASUA7TLAV2 / ASUA9TLAV2



Models:
ASUA12TLAV2/ASUA14TLAV2



Wall Mounted

ASUB18TLAV2
ASUB24TLAV2
ASUA30TLAV2
ASUA36TLAV2



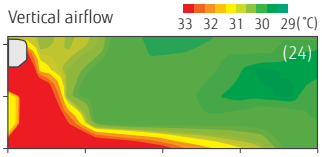
18/24,000 BTU/h

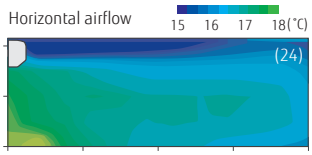


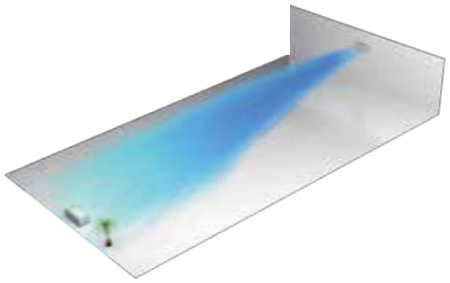
30/36,000 BTU/h

Comfortable air distribution

Power diffuser
(ASUB18/24TLAV2)

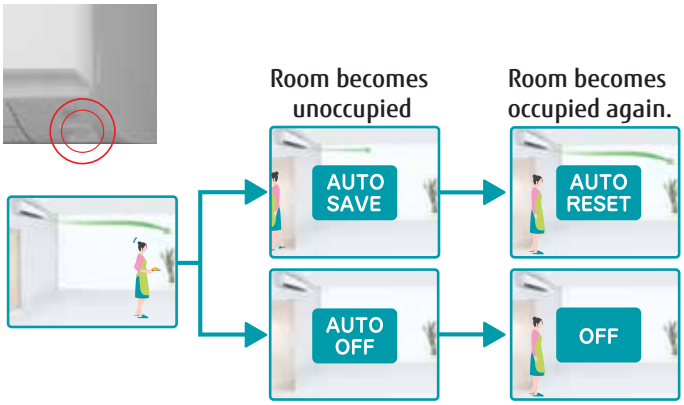






Occupancy / Human sensor setting

Models ASUB30/36TLAV2 only
The energy saving occupancy function can, via the optional Wired Remote Controller, be set to turn off the unit or change to power saving mode when a room becomes unoccupied.



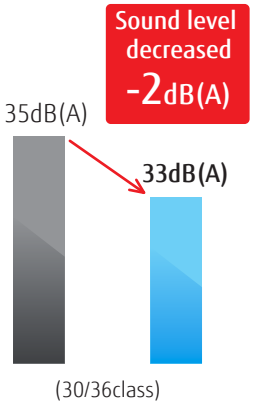
Specifications

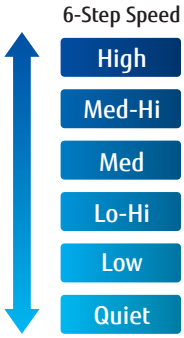
Model name			ASUB18TLAV2	ASUB24TLAV2	ASUA30TLAV2	ASUA36TLAV2
Power Source			1 Phase - 208 / 230V ~ 60Hz			
Capacity	Cooling	BTU/h	18,000	24,000	30,000	34,000
		kW	5.3	7.0	8.8	10.0
	Heating	BTU/h	20,000	27,000	34,000	38,000
		kW	5.9	7.9	10.0	11.2
Input Power		W	32	60	74	103
Airflow rate	High	CFM (m³/h)	494 (840)	647 (1,100)	848 (1,440)	954 (1,620) / 895 (1,520)*
	Med-Hi		-	-	706 (1,200)	765 (1,300)
	Med		453 (770)	536 (910)	618 (1,050)	659 (1,120)
	Lo-Hi		-	-	553 (940)	577 (980)
	Low		406 (690)	430 (730)	524 (890)	524 (890)
	Quiet		-	-	412 (700)	412 (700)
Sound pressure level	High	dB(A)	41	48	53	55 / 54 *
	Med-Hi		-	-	49	51
	Med		39	43	45	47
	Lo-Hi		-	-	42	43
	Low		35	35	39	39
	Quiet		-	-	33	33
Dimensions (H x W x D)		in.(mm)	12-5/8 × 39-5/16 × 9-3/8 (320 × 998 × 238)		13-3/8 × 45-1/4 × 11 (340 × 1,150 × 280)	
Weight		lbs.(kg)	33 (15)	33 (15)	40 (18)	40 (18)
Connection pipe diameter	Liquid (Flare)	in.(mm)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas (Flare)		1/2 (12.70)	5/8 (15.88)	5/8 (15.88)	5/8 (15.88)
Drain hose diameter (I.D./O.D.)		in.(mm)	9/16 / 5/8 to 11/16			

Note : Specifications are based on the following conditions: Built-in protective functions may limit capacity or shut off unit if unit is operated outside of unit design operating temperature ranges.
Cooling : Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB; and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB. Heating : Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB, and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB. Pipe Length : 25ft. (7.5m), Height difference : 0ft.(0m)(Outdoor unit - indoor unit).
*Cooling / Heating

6-speed fan control

With 6 fan speeds to choose from, the ASUB30TLAV2 and ASUB36TLAV2 models operate as quietly as 33 dB(A).







* Compatible Remote Controllers:
UTY-RVRU / UTY-RNRUZ-Series / UTY-RSRY / UTY-RHRY / UTY-DSGYZ2 / UTY-DCGYZ2 / UTY-ALGXZ1 / UTY-APGXZ1

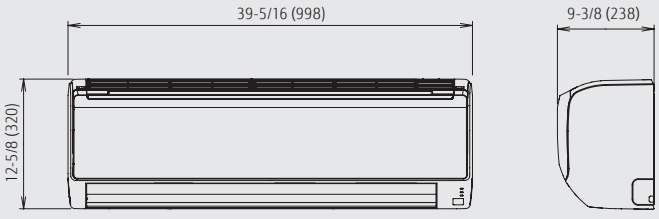
Optional Accessories

Kagami Wired Remote Control .....UTY-RVRU
Wired Remote Control (Touch Panel) ..... UTY-RNRUZ*
Simple Remote Control..... UTY-RSRY, UTY-RHRY
Wireless Remote Control..... UTY-LNHU

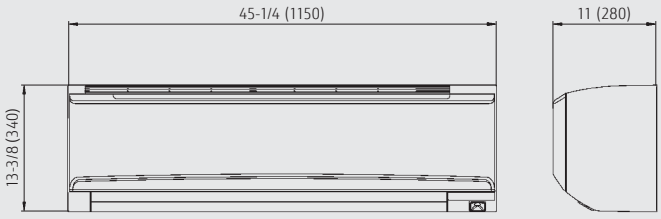
Dimensions

(Unit: In (mm))

Models:
ASUB18TLAV2 / ASUB24TLAV2



Models:
ASUB30TLAV2 / ASUB36TLAV2



DX-Kit for air handling applications

UTP-VU30A

UTP-VU60A

UTP-VU90A

UTY-VDGU



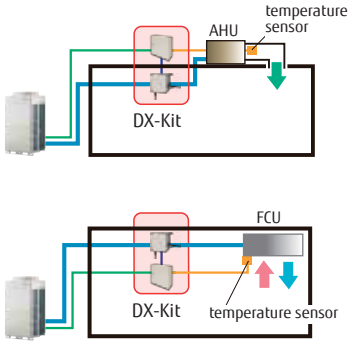


Fujitsu's DX-Kit enables a 3rd party Air Handling Unit to be fully integrated into an AIRSTAGE VRF system. This enables the benefits of advanced inverter compressor technology to extend to standard air handling equipment.

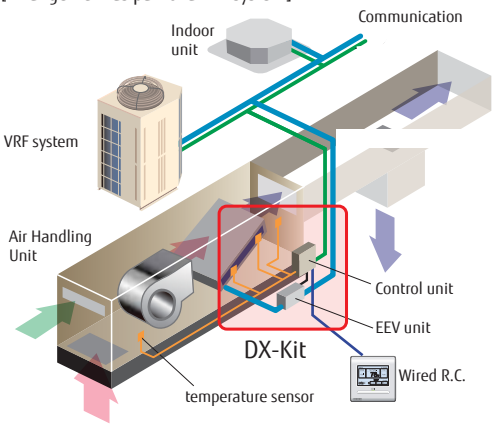
The DX-Kit offers a seamless integration and optimized design flexibility while making installation and commissioning efficient.

Different control strategies for optimized control of air handling & fan coil units

- When connecting to an air handling unit, the supply air temperature can be controlled by the air discharge sensor.
- When connecting to a fan coil unit, the room temperature can be controlled by the return air temperature sensor.

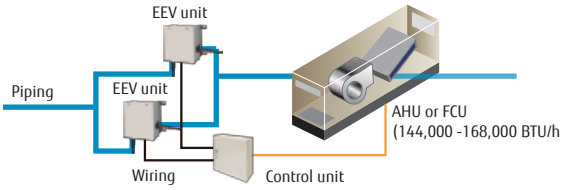


[Arrangement as part of a VRF system]



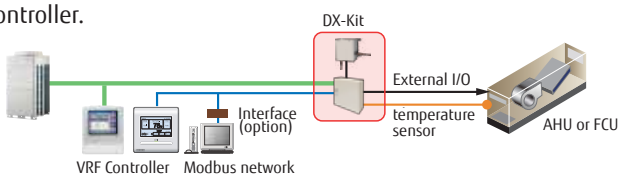
Supports wide range of capacities

- Connectable capacity range: 18,000 BTU/h to 168,000 BTU/h.
- 2 EEV units can be connected in parallel for up to 168,000 BTU/h large capacity units.

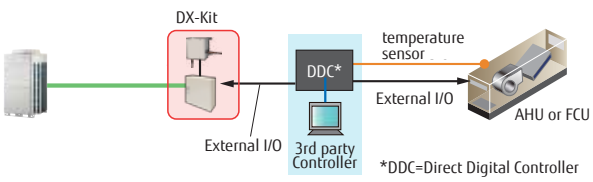


Variety of controls to match the application

- Central control using VRF controllers or central management (BMS) controller.



- Central control from external 3rd party controller



Summary of input/output functions

Inputs

- ON/OFF
- Set temperature
- Capacity demand
- Heating / Cooling operation mode
- Fault information

Outputs

- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

Modbus control

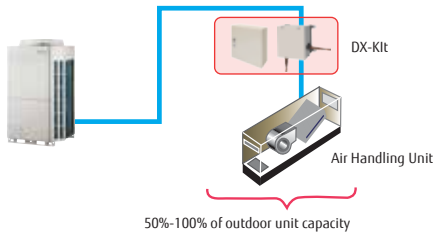
- Possible to control via Modbus interface for integration into a BMS system.

DX-Kit system design parameters

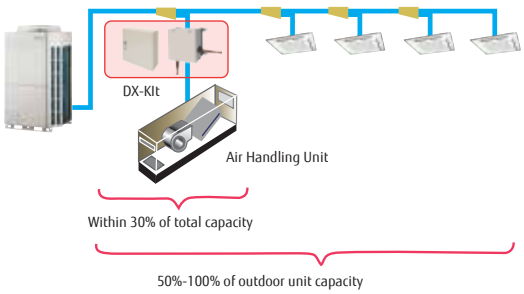
- Connectable VRF series: J-IIIL, J-IV, J-IVS, VU-V
- Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max wiring length from control unit: 32ft. (10m)
- Max piping length between EEV unit and indoor unit: 16ft. (5m)
- Control unit and EEV unit can be installed outdoors.

[Connectable capacity]

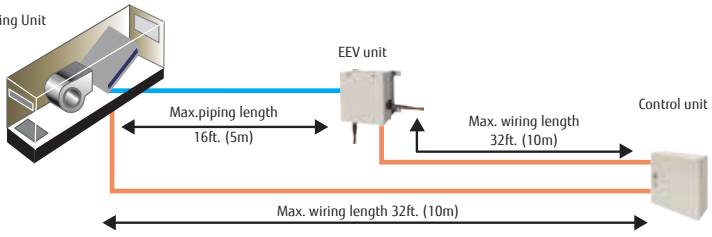
• Single connection



• Mixed connection



[Piping and wiring length]



[For 2EEV units connection (option)]

•Separation Tube kit : UTP-LX180A



Specifications

EEV Unit			UTP-VU30A			UTP-VU60A			UTP-VU90A		UTP-VU90A×2	
Connectable capacity		BTU/h	18,000	24,000	30,000	36,000	48,000	60,000	72,000	96,000	144,000	168,000
Capacity	Cooling	BTU/h	18,000	24,000	30,000	36,000	48,000	60,000	72,000	96,000	144,000	168,000
	Heating		20,000	27,000	34,000	40,000	54,000	67,000	81,000	108,000	162,000	188,000
Airflow Rate(Reference value)		CFM (m3/h)	624 (1,060)	706 (1,200)	895 (1,520)	941 (1,600)	1,177 (2,000)	1,318 (2,240)	2,095 (3,560)	2,354 (4,000)	3,767 (6,400)	4,709 (8,000)
Dimensions (H×W×D)		in.(mm)	6-5/16 x 8-11/16 x 3-9/16 (160 × 220 × 90)								6-5/16 x 8-11/16 x 3-9/16 (160 × 220 × 90)× 2	
Weight		lbs.(kg)	4.4 (2.0)								4.4 (2.0) × 2	
Connection pipe diameter (Liquid)		in.(mm)	Ø3/8 (9.52)			Ø3/8 (9.52)			Ø1/2 (12.70)			
Control box			UTY-VDGU									
Power source		V/Ø/Hz	208-230 / 1 / 60									
Dimensions (H×W×D)		in.(mm)	15-3/4 x 15-3/4 x 4-3/4 (400 × 400 × 120)									
Weight		lbs.(kg)	22.0 (10.0)									

Note: Specifications are based on the following conditions:
Cooling: Indoor temperature of 80°F(26.7°C)DB/67°F(19.4°C)WB, and outdoor temperature of 95°F(35°C)DB/75°F(23.9°C)WB.
Heating: Indoor temperature of 70°F(21.1°C)DB/60°F(15.6°C)WB, and outdoor temperature of 47°F(8.3°C)DB/43°F(6.1°C)WB.
Pipe length: 25ft.(7.5 m)
Voltage : 230 [V]

Outdoor Air Unit

AAUA48TLAV
AAUA72TLAV
AAUA96TLAV



AAUA48



AAUA72

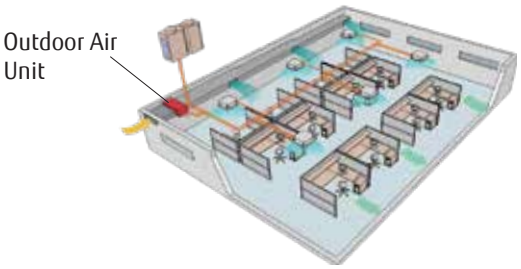


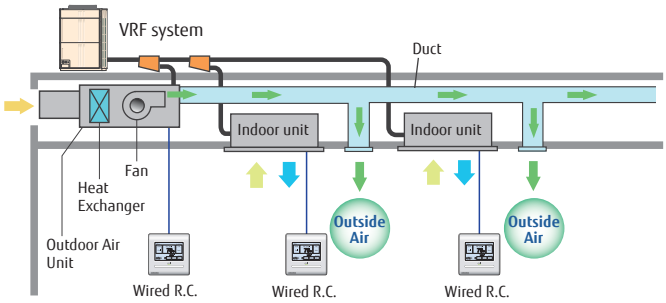
AAUA96

The outdoor air unit provides a zoned and decentralized solution to bringing in conditioned outside air to the space.
Both outside air treatment and space conditioning is provided from one flexible and efficient VRF system.

One VRF system can provide efficient air conditioning and air supply at the same time

J-SERIES V-SERIES





* See Product Documentation for detailed design guidelines.

Model name			AAUA48TLAV	AAUA72TLAV	AAUA96TLAV
Power source			1 Phase ~ 208/230V 60Hz		
Capacity	Cooling	BTU/h	48,000	72,000	96,000
	Heating		30,000	47,000	59,000
Input power	Cooling/Heating	W	179	292	370
Airflow rate		CFM (m^3/h)	636 (1,080)	989 (1,680)	1,236 (2,100)
Static pressure range		in.WG (Pa)	0.20 to 0.74 (50 to 184)	0.20 to 0.80 (50 to 200)	0.20 to 0.96 (50 to 239)
Standard static pressure			0.74 (184)	0.80 (200)	0.80 (200)
Sound pressure level		dB (A)	42	44	47
Dimensions (H × W × D)		in. (mm)	16-3/4×53-13/16×22-1/2 (425×1,367×572)	16-3/4×53-13/16×22-1/2 (425×1,367×572)	17-11/16×62-5/16×27-9/16 (450×1,583×700)
Weight		lbs.(kg)	108 (49)	123 (56)	159 (72)
Connection Pipe Diameter (Small / Large)		in. (mm)	Ø3/8 / Ø3/4 (Ø9.52 / Ø19.05)	Ø1/2 / Ø7/8 (Ø12.70 / Ø22.22)	Ø1/2 / Ø7/8 (Ø12.70 / Ø22.22)
Operation Range	Cooling	°FDB (°CDB)	41 to 109 (5 to 43)	41 to 109 (5 to 43)	41 to 109 (5 to 43)
	Heating		19 to 70 (-7 to 21)	19 to 70 (-7 to 21)	19 to 70 (-7 to 21)
Refrigerant			R410A	R410A	R410A

Note : Specifications are based on the following conditions.
Cooling : Outdoor temperature of 91°FDB (33°CDB) / 82°FWB (28°CWB).
Heating : Outdoor temperature of 32°FDB (0°CDB) / 27°FWB (-2.9°CWB).
Pipe length : 25ft. (7.5 m)

Outdoor Air Unit (continued)

High energy savings and flexible duct design by using DC motor

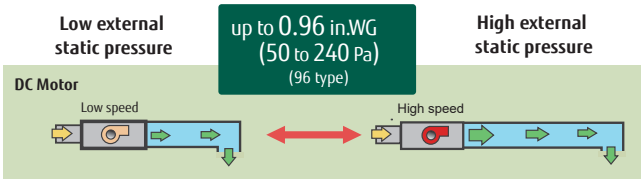
- DC fan motor with permanent magnet technology for energy efficient operation.
- External static pressure capabilities of up to 0.96" W.G. allows for flexibility with duct work and filtration choices.



48 / 72 type



96 type



Various Controllers

Design flexibility with many optional controllers, such as individual remote controls, central controllers and building management systems.

Remote Controls



Kagami Wired Remote Control



Wired Remote Control (Touch Panel)



Simple Remote Control



Wireless Remote Control*

*Auto mode disabled

Central Controller



AISTAGE Edge Controller



Central Remote Controller



System Controller
System Controller Lite (Software)

Efficient compact design

- Compact and low profile design reduces the required installation space and can eliminate mechanical rooms or separate mounting spaces associated with traditional outdoor air systems.

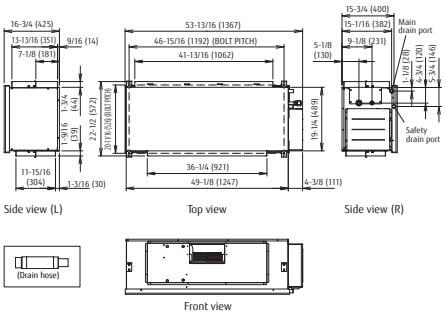
unit: in. (mm)



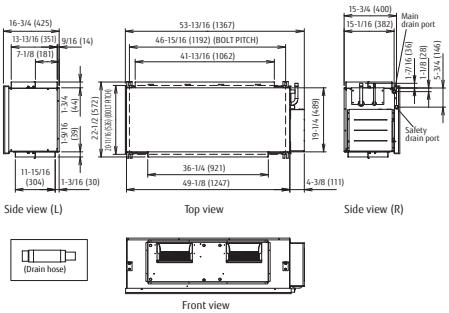
Optional Accessories

IR Receiver ..... UTB-YWC
Wireless Remote Controller ..... UTY-LNHU

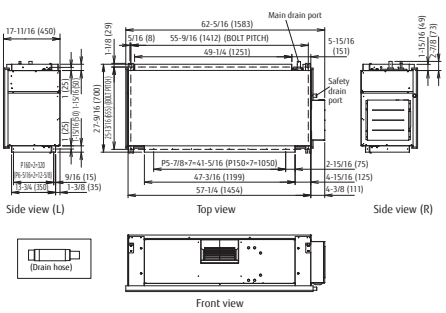
AAUA48TLAV



AAUA72TLAV



AAUA96TLAV



Control System Overview

For VRF

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

Air Conditioning
Individual Controls



Kagami Wired Remote Control
UTY-RVRU



Touch Panel Wired Remote Control
UTY-RNRUZ*



Simple Remote Control
UTY-RSRY
UTY-RHRY (without operation mode)



Wireless Remote Control
UTY-LNHU



IR Receiver Unit
UTB-YWC For Ducted Models
UTY-TRHX For TLAV2 Ducted Models

UTY-LBHXD For Circular Flow Cassette

Air Conditioning
Centralized Controls



AIRSTAGE Edge Controller
UTY-DSGYZ2



Central Remote Controller
UTY-DCGYZ2



System Controller Software
UTY-APGXZ1
UTY-ALGXZ1 (Lite edition)



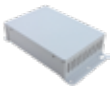
BMS Gateways

For external control via Building Management Systems (BMS) or Home Automation Systems (HAS)

AIRSTAGE Integration Manager™
powered by Niagara
FUJ-VRF-8025
FUJ-VRF-8125



BACnet® Gateway
UTY-VBGX (Hardware)



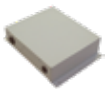
BACnet® Gateway
FJ-AC-485-1 (One-to-One)



BACnet®/Modbus Gateway
FJ-VRF-775-4
FJ-VRF-775-16
FJ-VRF-775-64



Network Converter
(For LONWORKS®)
UTY-VLGX



MODBUS® Converter
UTY-VMGX

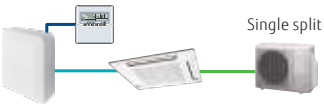




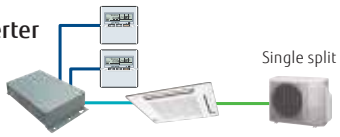
Converter/Adapter

For system expansion and 3rd-party controls

Network Converter
(DC power supply)
UTY-VTGX



Network Converter
(AC power supply)
UTY-VGGXZ1



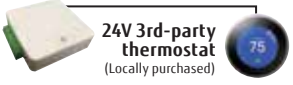
Signal Amplifier
UTY-VSGXZ1



External Switch Controller
UTY-TERX



3rd Party Thermostat Interface
UTY-TTRXZ1



Wi-Fi Interfaces

For control via cloud-based applications

UART WiFi Adapter
(AIRSTAGE Mobile)
UTY-TFSXJ4



UART Wi-Fi Adapter
(AC Cloud Control)
FJ-AC-WIFI-1



3-Wire Wi-Fi Adapter
(AC Cloud Control)
FJ-RC-WIFI-1NA

			Zone Controllers					Central Controllers				WI-FI Interface	
			Kagami Remote Control	Touch Remote Control	Simple Remote Control *1	Simple Remote Control	Wireless Remote Control	AIRSTAGE Edge Controller	Central Remote Controller	System Controller	System Controller Lite	AIRSTAGE Mobile	UART (Intesis AC Cloud Control)
Model name			UTY-RVRU	UTY-RNRUZ*	UTY-RHRY	UTY-RSRY	UTY-LNHU	UTY-DSGYZ2	UTY-DCGYZ3	UTY-APGXZ1	UTY-ALGXZ1	UTY-TFSXJ4	FJ-AC-WIFI-1
Max. controllable remote control groups			1	1	1	1	1	128	100	1600	400	1	1
Max. controllable indoor units			16	16	16	16	16	128	100	1600	400	1	1
Max. controllable groups			–	–	–	–	16	128	16	1600	400	–	–
Air Conditioning Control Function	On / Off		• *3	• *3	•	•	•	•	•	•	•	•	•
	Operation mode setting		•	•	–	•	•	•	•	•	•	•	•
	Fan speed setting		•	•	•	•	•	•	•	•	•	•	•
	Temp. setpoint setting		•	•	•	•	•	•	•	•	•	•	•
	Room temp. setpoint limitation		•	•	•	•	–	•	•	•	•	–	•
	Test operation		•	•	•	•	•	•	•	–	–	–	–
	Vert. Airflow Dir. / Swing setting		•	•	•	•	•	•	•	•	•	•	•
	Horiz. Airflow Dir. / Swing setting		•	•	–	–	•	•	•	•	•	•	•
	Individual louver control		•	•	–	–	–	•	–	–	–	–	–
	Group setting		–	–	–	–	–	•	•	•	•	•	–
	RC prohibition		–	–	–	–	–	•	•	•	•	–	–
	Anti freeze setting		–	–	–	–	–	•	•	•	•	–	–
	Set temp. auto return		•	•	–	–	–	•	–	–	–	–	–
	Away setting		•	•	–	–	–	•	–	–	–	–	–
	Economy mode setting		•	•	–	–	•	•	•	•	•	•	–
	Occupancy/Human sensor setting		–	–	–	–	–	•	–	•	•	•	–
Display	Error		•	•	•	•	–	•	•	•	•	•	•
	Defrosting		•	•	•	•	–	•	•	•	•	•	–
	Current time		•	•	–	–	•	•	•	•	•	–	–
	Day of week		•	•	–	–	–	•	–	•	•	–	–
	RC prohibition		•	•	•	•	–	•	•	•	•	•	–
	Cooling/heating priority		•	•	•	•	–		•	•	•	–	–
	Address display		•	•	•	•	–	•	•	•	•	–	–
	Room temp		•	•	•	•	–	•	–	–	–	•	•
	Multi language		•	•	–	–	–	•	•	•	•	•	•
	Daylight Saving Time setting (Summer)		•	•	–	–	–	•	•	•	•	–	–
	Time zone setting		–	–	–	–	–	•	–	–	–	•	•
	Name registration		•	•	–	–	–	•	•	•	•	•	•
	Backlight		•	•	•	•	–	• *7	•	–	–	–	–
	2D floor layout / 3D building display		–	–	–	–	–	–	–	•	–	–	–
	Service Tool functionality							• *8				–	–
Timer	Schedule timer	Period	Week	Week	–	–	–	Week / Year	Week	Year	Year	Week	Year
		On/Off, Temp, Mode: Events per day	8 *3, *4	8 *3, *4	–	–	–	Unlimited	20	144	144	–	10
	On/Off timer		–	–	–	–	•	–	–	–	–	–	–
	Sleep timer		–	–	–	–	•	–	–	–	–	–	–
	Program timer		–	–	–	–	•	–	–	–	–	–	–
	Auto off timer		•	•	–	–	–	•	–	–	–	–	–
	Day off		•	•	–	–	–	•	•	•	•	–	–
	Min. unit of timer setting (Minutes)		10-30	10-30	–	–	5	1	10	10	10	–	–
Control	Status monitoring system		–	–	–	–	–	•	•	•	•	•	•
	Electricity charge apportionment		–	–	–	–	–	•	–	•	°	–	–
	Error history		•	•	–	–	–	•	•	•	•	•	•
	Emergency stop		–	–	–	–	–	•	• *2	–	–	–	–
	Remote management		–	–	–	–	–	•	–	•	°	•	•
	Energy saving management		–	–	–	–	–	•	–	°	°	•	–
	Low noise mode		–	–	–	–	–	•	–	–	–	•	–
BMS	Third party Modbus communication				–	–	–	•	–	°	°	–	–
Administration	Error / event notification		–	–	–	–	–	Email, SMS	–	•	•	• *5	• *5
	Multi user access levels		–	–	–	–	–	•	–	•	•	•	•
	Key lock		• Child Lock	• Child Lock	–	–	–	• Password Setting	• Password Setting	• Password Setting	• Password Setting	• Password Setting	• Password Setting
	Refrigerant Cycle Monitor *6		•	•	–	–	–	•	–	–	–	–	–
	OTA updates		–	–	–	–	–	•	–	–	–	•	•

*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input. control. *3 On / Off (Occupied / Unoccupied) *4 Mode deleted *5 Notification of errors, operating mode changes, and temperature alarms *6 Monitoring functions similar to Service Tool *7 Seven levels of brightness

– : Not supported • : Supported ° : Optional function

Kagami Wired Remote Control

(2-wire): UTY-RVRU

KAGAMI MIRROR



Simple, clean design that harmonizes with the space

The new UTY-RVRU Kagami Controller is a touch enabled, intuitive and stylish-looking controller, compatible with 2-Wire H, J, and V-Series indoor units.



Features

- Sleek, minimalist design that harmonizes with the space
- Large, easy to read, anti-fingerprint touch screen with auto dimming
- Simple, intuitive operation, with only the necessary functions and minimal screen transitions - swipe left/right to select settings, up/down to adjust settings
- Initial setup and function settings via BLE connection to Remo Set app on smart device, or manually on the controller
- Easily transfer settings between controllers, reducing install time
- Custom logo import and display and masking of settings for hotels
- Control and monitoring for commonly used functions, including:
    - On/Off, Operation Mode, Fan Speed, and Air Flow Direction
    - Room temperature display with temperature correction
    - Current time display, adjusts for Daylight Savings
    - Auto-Off and Weekly Timers
    - Custom Auto (dual setpoint) function
    - Away / Eco Away setting
    - Economy / Energy Saving Fan / Optimum Start operation
    - Emergency Heat control
    - Filter Status and Reset
    - Anti-Freeze operation
    - Economy / Energy Saving Fan / Optimum Start operation
    - Error display and history
    - Refrigerant Cycle Monitor of select sensor values
    - Test Run function
- Password and child lock protection
- Multi-language (English, Chinese, French, German, Spanish,
- Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)
- Energy Star Compliant
- Meets California 2022 Title 24 requirements
- Retains and displays HVAC contractor contact info for support
- 90-day warranty

Intuitive menu operation

Swipe left/right to choose a setting, and up/down to change values.

Temp. Setting



Operation Mode



Airflow Setting



Determine operating status at a glance

Subtle color-coded LED displays current operation mode, even when controller is idle.



Blue: Cooling



Red: Heating



Green: Dry



White: Fan

Logo Display for Hotels

KAGAMI can be customized with logos from hotels or other properties. Images are sent via BLE* connection where data is saved on the flash ROM built into each controller.



Limited Visibility of Settings for Hotels

KAGAMI features a function that enables hotels and other clients to "hide" settings from the displays so that their guests cannot change system settings.

Settings are possible through the smartphone app via BLE* connection to the remote controllers. (Settings can also be adjusted manually on the remote controllers as usual.)

*BLE: Bluetooth Low Energy









The design goal was to create a controller that is considered interior décor. This was achieved through the use of mirrors, glass, and layered elements that produce a frosted clear panel that appears to float. The end result, KAGAMI, feels as if it is one with the wall.

KAGAMI Wired Remote Control UTY-RVRU (continued)

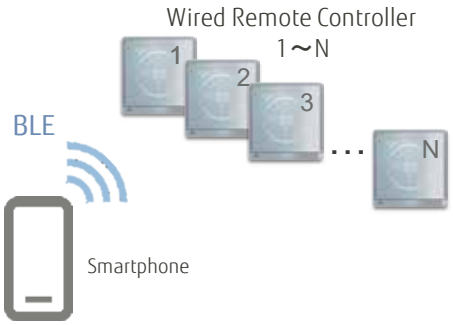
Installation/Maintenance

Smartphone Application

To improve workability, our smartphone app now enables users to make initial settings of the remote controllers and adjust function settings of the indoor unit via BLE*1 connection.

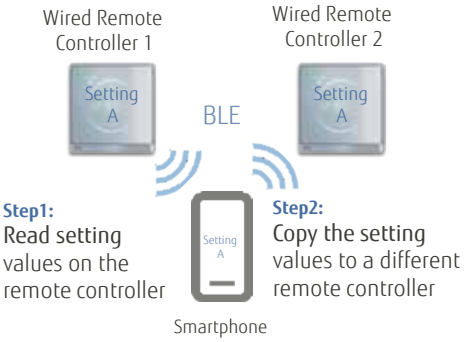
Settings can also be adjusted manually on the remote controllers as usual.

Method 1



Send the setting values entered by the smartphone to the remote controller*2

Method 2



Read the setting values of a different remote controller and send a copy of them*2

Step1: Read setting values on the remote controller

Step2: Copy the setting values to a different remote controller

*1 BLE: Bluetooth Low Energy
*2 Smartphone: Wired Remote Controller = 1 : 1

Support Functions

Display Contractor Contact Information

The remote controllers can retain and display HVAC contractor contact information. Contact information can be sent from the smartphone app to the remote controllers via BLE*.

*BLE: Bluetooth Low Energy

Refrigerant Cycle Monitor

Wired Remote Controller (Touch Panel) will support the display of certain sensor values for maintenance and service support.

Remo Set App (free download)

Set up your new Kagami controller via Bluetooth from your smartphone (or directly at the controller).
Features:

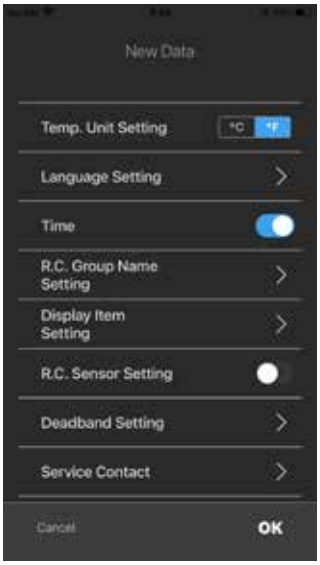
- Initial configuration
- Function setting
- Custom logo import
- Copy settings between controllers

GET IT ON Google Play

Download on the App Store



Main Screen



Setting Screen

Specifications

Model name	UTY-RVRU
Power source	DC 12V
Dimensions (H x W x D) (in. (mm))	4-13/16 × 4-9/16 × 1 (121.5 × 116 × 26)
Weight (oz.(g))	7.94 (225)

Touch Panel Wired Remote Control

(2-wire): UTY-RNRUZ*

Max. controllable **16** indoor units



User friendly operation with high-definition large STN-LCD touch screen

- Built-in temperature sensor
- Built-in weekly/Daily timer(ON/OFF(Occupied/Unoccupied),Temp.)
- Backlight with ambient sensor adjusts to the room's light level
- Room temperature display
- Temperature set point limitation
- Multi-language (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)

High performance and compact size

- Flexible remote controller with individual control mode and various energy saving controls functions.

Individual control + **Thermo sensor** + **Weekly timer** + **Auto off timer** →



Accurate and comfortable control

- Built in air temperature sensor for accurate control and display of indoor air temperature.

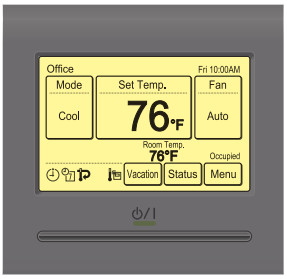


Room temperature sensor

Room temperature display

Backlight

- Backlight enables easy operation in a dark room.
- Choose to have the backlight display stay on for 30 or 60 seconds.

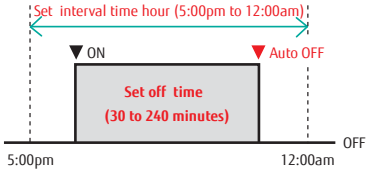


Various energy saving settings

Auto OFF Timer

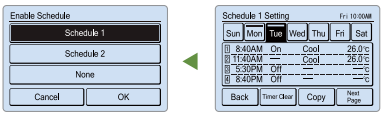
- The indoor unit automatically turns off after a set time has passed.
- The time interval for which auto off works can be set.

Ex) At interval time hour (5:00pm to midnight) to prevent forgetting to turn off

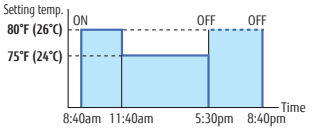


2 schedules Weekly Timer

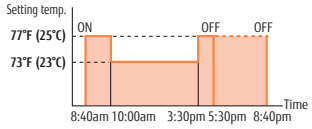
- 2 schedules such as for the summer and winter can be set.
- 8 setting changeable per day of week (Setting items: ON / OFF (Occupied/Unoccupied), Temperature, Time)



Schedule 1 (Summer schedule)



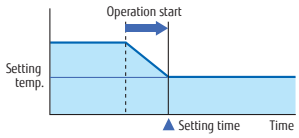
Schedule 2 (Winter schedule)



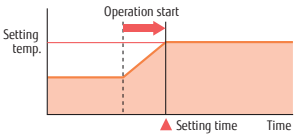
Optimum start function

- Provides configurable operation start to get the space to set temperature before scheduled time.

Cooling operation



Heating operation



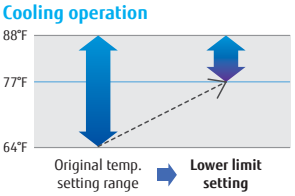
Set Temperature Auto Return

- The set temperature automatically returns to the previous setting.
- The time range in which the set temperature can be changed is 10 to 120 minutes.

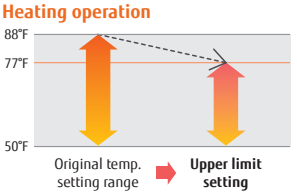
Set Temperature Upper and Lower Limit Setting

- Set temperature range can be set for each operation mode. (Cooling / Heating / Auto)

Cooling operation



Heating operation

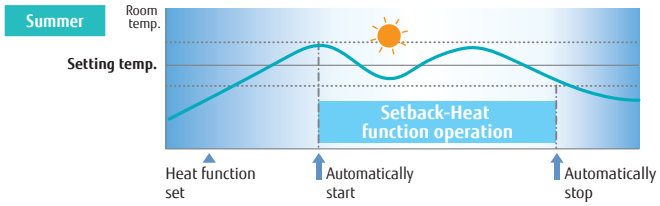


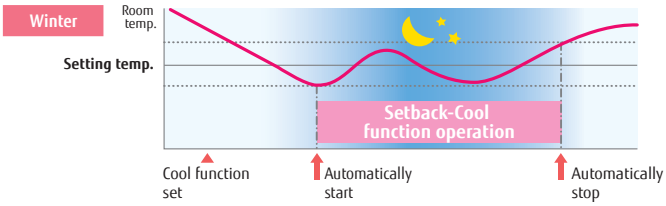
Touch Panel Wired Remote Control UTY-RNRUZ* (continued)

Additional functions

Away mode

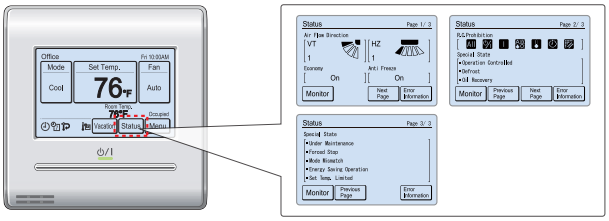
- Cooling / Heating is automatically started when the room temperature reaches a setting temperature even if the indoor unit is off.





Displays setting status and limitations

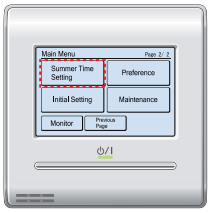
- The remote controller settings can be easily checked





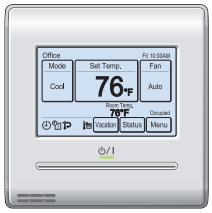
Child lock

- Lock / unlock method: Push the ON/OFF button on the screen (4 seconds)



Daylight savings time (Summer Time)

- Provides Daylight Savings adjustment option.



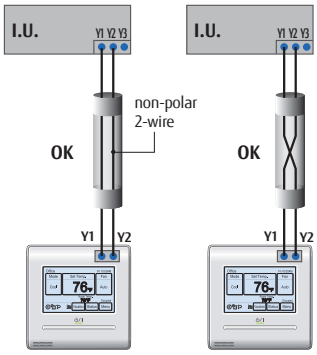
Name registration

- Easy identification of Indoor units using the user programmed names.

Monitor of EEV pulses from within the controller

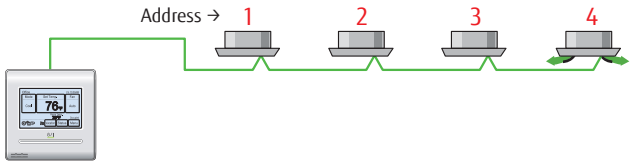
Simplified installation

Easy to install using non-polar 2-wire communication cable



Auto Address Setting/Setting Position Notification

- Auto addressing for reliable and quick installation



Easy Maintenance

Operation history saved in the controller



Specifications

Model name	UTY-RNRUZ*
Power source	DC 12V
Dimensions (H x W x D) (in. (mm))	4-3/4 × 4-3/4 × 11/16 (120 x 120 x 20.4)
Weight (oz.(g))	8 (220)

Simple Remote Control

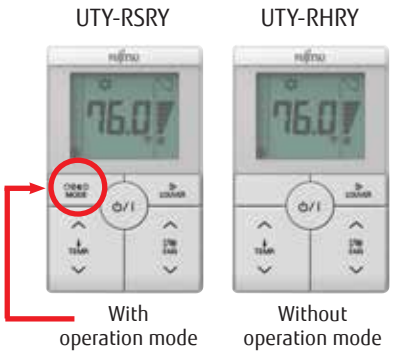
(2-wire) UTY-RSRY / UTY-RHRY (Without operation mode)

(3-wire) UTY-RSKU / UTY-RHKU (Without operation mode)

Compact wired remote control unit provides access to basic functions

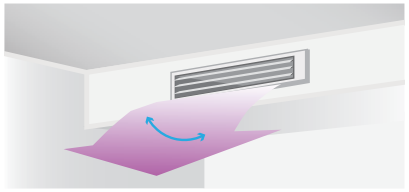
- Built-in temperature sensor
- Backlit display
- Simple functions make the controller perfect for hotels, schools, etc.

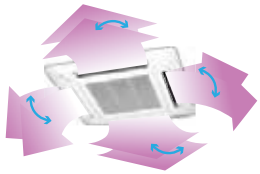
Max. controllable **16** indoor units



Vertical louver control

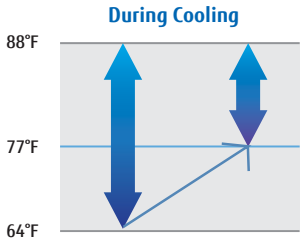
Offers vertical louver control for ducted and cassette units.

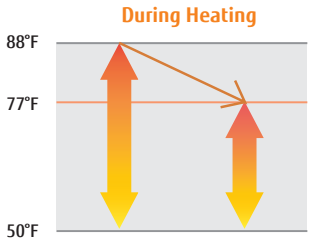




Room temperature set point limitation

Equipped with set point limitation option for energy efficiency.







Specifications

Model name	UTY-RSRY	UTY-RHRY
Power Supply	DC 12V	DC 12V
Dimensions (H x W x D) (in. (mm))	4-3/4 × 2-15/16 × 9/16 (120 × 75 × 14)	4-3/4 × 2-15/16 × 9/16 (120 × 75 × 14)
Weight (oz.(g))	4 (120)	4 (120)

DC12V is supplied by the indoor unit.

Wireless Remote Control

UTY-LNHU

Max. controllable **16** indoor units

Selectable **4** daily timers



Simple and sophisticated operations with a choice of 4 daily timers

- One remote can control up to 16 indoor units.

Accurate and comfortable

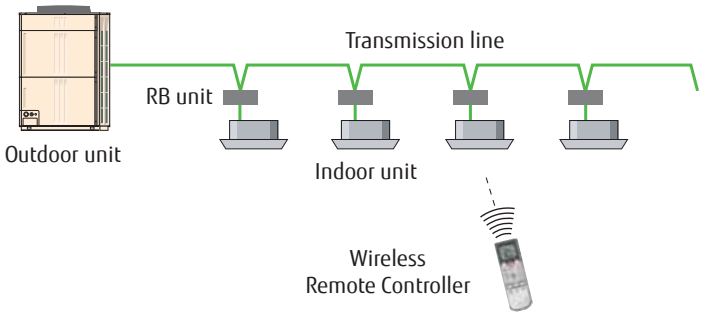
Select from 4 different timer programs: On / Off / Program / Sleep
Program timer: The program timer operates the ON and OFF timer once within a 24 hour period.
Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

Easy installation and operation

- Code selector switch prevents indoor unit mix-up. (Up to 4 codes can be set.)
- Reliable transmitting over long range.
- IR Built-in receiver is standard in compact cassette, ceiling/floor, and wall mounted indoor units.

Address setting

During installation, address setting can easily be done using the Wireless Remote Control, thus eliminating manual setting inside the Indoor unit.



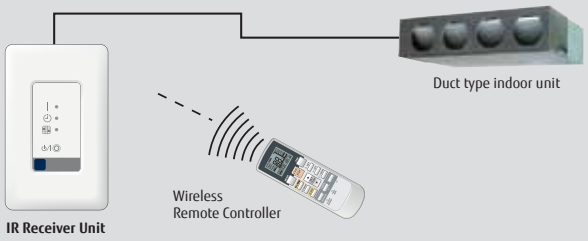
IR Receiver Unit: UTB-YWC

(for VRF ducted models)

IR Receiver Unit: UTY-TRHX

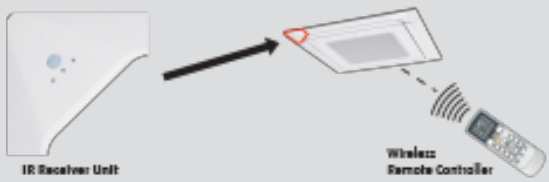
(for TLAV2 ducted models)

Required for controlling ducted indoor unit via a Wireless Remote Control



IR Receiver Unit: UTY-LBHXD

Circular Flow Cassette type indoor unit can be controlled with Wireless Remote Control.



AIRSTAGE Cloud

Better solutions for HVAC management and maintenance

The highly versatile AIRSTAGE Cloud platform enables effective and efficient management and maintenance of heating, ventilation, and air conditioning systems as an ongoing service. It can be accessed through a web browser.

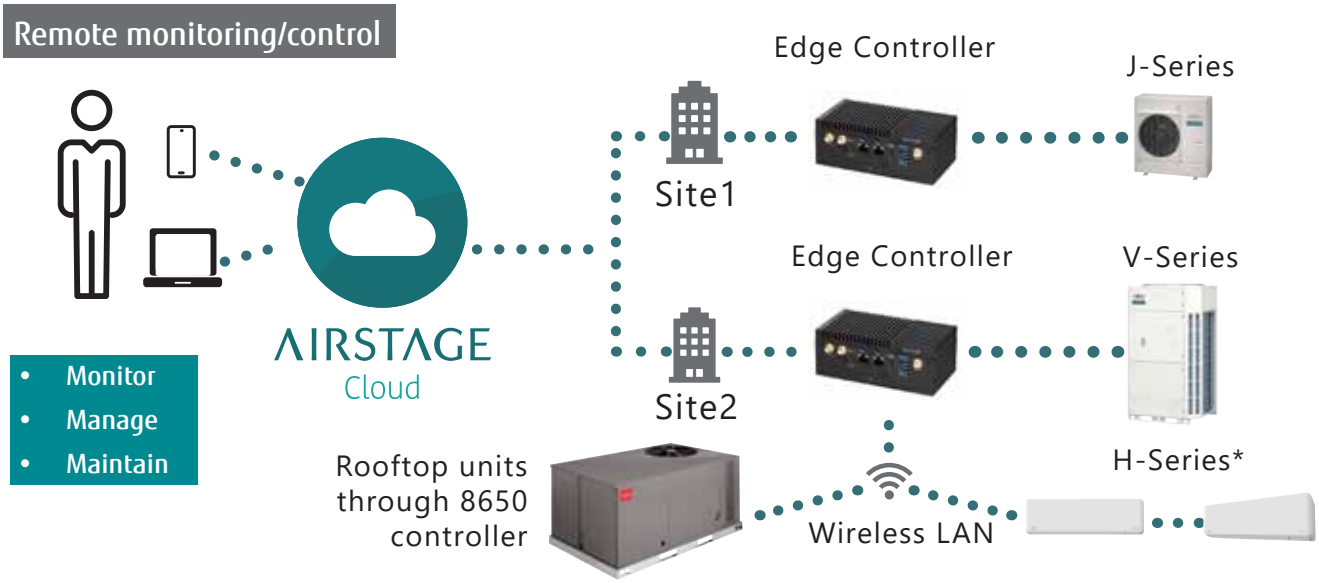
airstagecloud.com



- Manage HVAC systems for multiple properties
- Streamline HVAC management and reduce operating cost
- Enable remote monitoring and maintenance
- Improve maintainability and serviceability
- Cloud-edge infrastructure sharing
- Enjoy affordable performance, security and reliability
- Pre-programmed / self-configuring dashboards and automated device recognition
- Minimize custom programming and lower setup and expansion costs
- New features will be continuously implemented by over-the-air system updates

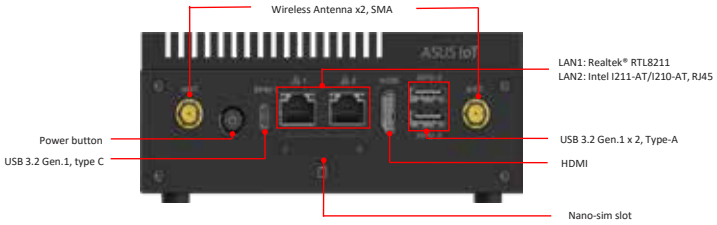
System Overview

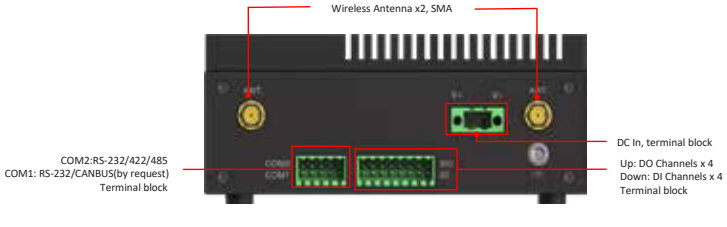
The AIRSTAGE Cloud delivers greater value in operation and life-cycle management of HVAC systems.



*Current H-Series units with optional AIRSTAGE Mobile adapter.

Appearance





Features - Site Manager

- Subscription-based application with tiered options
- Manage HVAC systems for multiple properties - Show location map and information about HVAC systems under management
- Streamline HVAC management and reduce operating cost
- At-a-glance monitoring dashboard - Display an HVAC system's operation status and energy usage for each site, group, and system in a dashboard format
- Manage energy usage - Maintain comfortable room environments efficiently
- Account settings - create profiles for clients, manage users and access, register Edge Controllers
- Notifications - view in-app alerts, manage external SMS and email notifications

Portfolio Dashboard



Site Dashboard



Zone Dashboard



The AIRSTAGE Cloud enables centralized management of HVAC systems operating in multiple properties and plots the property locations on a map.

Screen layout and content subject to change as features are added and improved.

Features - Service Manager - (accessible through web browser connection to AIRSTAGE Cloud.) Note, only for J & V series

- Display indoor/out unit configuration
- Remote Read/write VRF function codes
- Remote VRF Commissioning
- Monitor and control operation
- Live operating parameters
- 30-day system performance lookback
- Trend graphs for key parameters
- Operation History
- Error History

Site Dashboard



Commissioning Dashboard



Features

- Certified with RF Regulation: CE RED (LTE module)
- 16GB on board eMMC , Mini PCIe slot for storage capacity
- Compact size gateway with low power consumption and scalable processor for diverse IoT applications
- Support Linux Yocto OS and Ubuntu server/ core
- Wide Operating Temperature Range : 20˚~60˚C

●: Supported

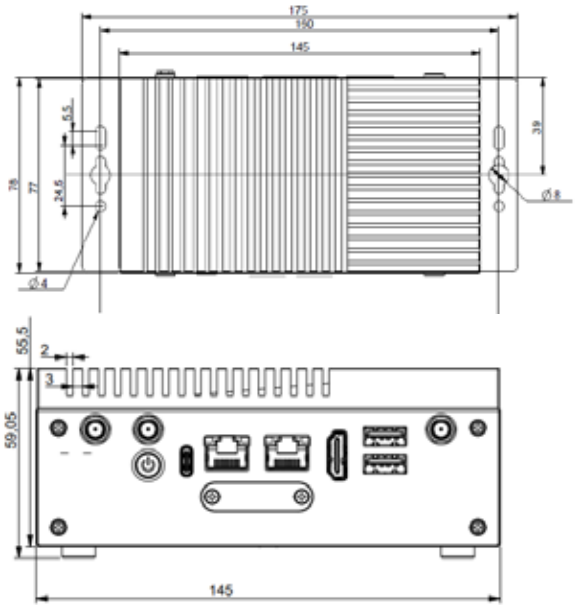
Model name			PE 100A
Model number			UTY-DSGYZ2-1YN
Max. controllable indoor units			128
Site Manager	On / Off		●
	Operation mode setting		●
	Fan speed setting		●
	Room temp. setting		●
	Room temp. set point limitation		●
	Test operation		●
	Up/down airflow direction setting		●
	Left/right airflow direction setting		●
	Individual louver control		●
	Zone (Group) setting		●
	RC prohibition		●
	Anti freeze setting		●
	Economy mode setting		●
	Human sensor control		●
	Custom Auto setting		●
Service Manager	System List	Display indoor/out unit configuration	●
		Monitor and control operation	●
		Special Operation monitoring	●
	Detail Diagrams (OD/IU)	Current operating parameters	●
		Piping diagram	●
		Sensor location and current value	●
		Trend graphs for temp sensors and EEV pulses	●
	Detail Status List of operation and sensor values		●
	Details Check List showing abnormal values if present		●
	Operation History		●
	Error History		●
	Read/write VRF function codes		●
	Remote VRF Commissioning		●
Timer	Schedule Timer	Period	Weekly,Yearly
		On/Off, Temp., Mode, Times per day	●
	Program timer		●
	Auto off timer		●
	Day off		●
	Min. unit of timer setting (Minutes)		1
Control	Status monitoring system		●
	Emergency stop		●
	Remote management		●
	Zone control		●
History	Operation		●
	Error		●
Other	Multiple user accounts and access levels		●
	Software Update Over the Air (OTA)		●

Specifications

System	CPU	NXP® i.MX 8M ARM Cortex-A53 Quad core , 1.3 GHz
	Memory	4 GB LPDDR4 onboard
	OS Storage	16 GB eMMC onboard
Wired Interfaces	Video	1 x HDMI 2.0, supports up to 3840 x 2160 @60Hz
	Ethernet	2 x 10/100/1000 Mbps, RJ45 1 x Realtek® RTL8211, supports WOL 1 x Intel I211-AT/I210-AT, supports WOL
	USB	2 x USB 3.2 Gen.1, Type-A 1 x USB 3.2 Gen.1, supports OTG, Type-C
	COM	1 x RS-232/CANBus (by request) (COM1) 1 x RS-232/422/485 (COM2), 2 x 5 terminal block
	DIO	4 x DI, 4 x GND, 2.5 KV optical isolation 4 x DO, 4 x GND, 10KV relay isolation, 2 x 8 terminal block
Wireless Interfaces	Wi-Fi	1 x M.2 2230 E-key socket, supports 802.11 a/b/g/n/ac + BT 4.2 module
	SIM	1 x nano-SIM slot
Expansion Slot	mPCIe	1 x mPCIe socket, supports SATA or USB signal for mSATA/LTE/Google®TPU module
	M.2 E key	1 x M.2 2230 E key socket, supports PCIe or USB signal for Wi-Fi/BT
AI	Edge TPU	Google® Coral Edge TPU (mPCIe socket)
Power	Power	12 to 24 V DC, 2-pin terminal block
Mechanical	Mounting	Wall mount/ Din Rail
	Dimensions	55.5(H) x 145(W) x 78(D) mm
	Weight	0.775 KG
Environment	Operating Temp.	-20~60°C with wide temperature parts, fanless
	Storage Temp.	-40~85°C
	Relative Humidity	10 to 95% (non-condensing)
	EMC	CE(ITE), FCC, VCCI, RCM,BSMI, CCC
	RF Regulation	LTE: CE-RED
	Safety	UL,CB, CCC, BSMI, CE
	Vibration	Operating: 0.21Grms, 5~500 Hz, 20min duration
	Shock	Operating: 50 G, half sine 11ms duration
	Green	GA (RoHS)
Security	TPM header	Cooperate with TPM 2.0 powered by Nuvoton NCPT 750 (Optional)
Others	Watchdog timer	Yes. Set up by software
	Operating System	Linux Yocto, Ubuntu server/ core

Dimensions

Unit : inch [mm]



Central Remote Controller

UTY-DCGYZ2

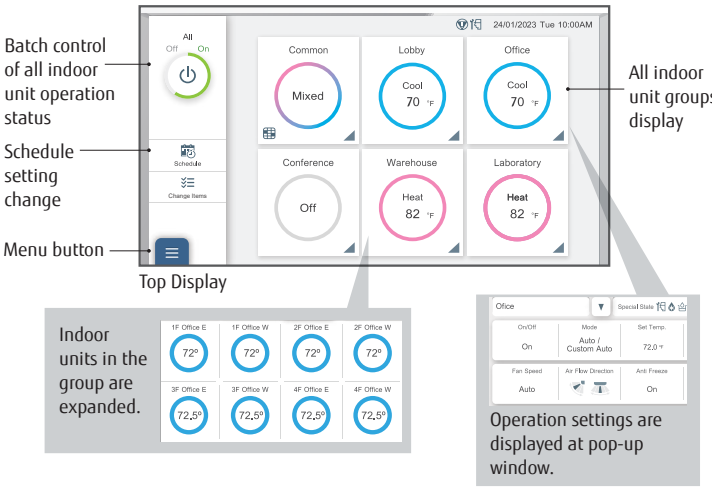


For small- and medium-sized buildings

- Individual control and monitor of 100 indoor units and max. 50 groups
- 7.0inch TFT color screen for high visibility and easy operation
- Supports max.23 different languages
- 12 different languages. (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)
- Additional language can be integrated by creative language database. *(Bulgarian, Czech, Danish, Estonian, Finnish, Croatian, Hungarian, Romanian, Slovak, Slovenian, Swedish)

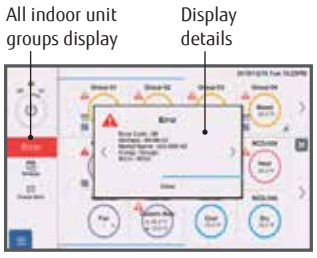
Easy operation

- Central remote controller with intuitive operation via touch panel operation
- All functions accessed from the top screen



Trouble support function

- Displays operation status details and explanations



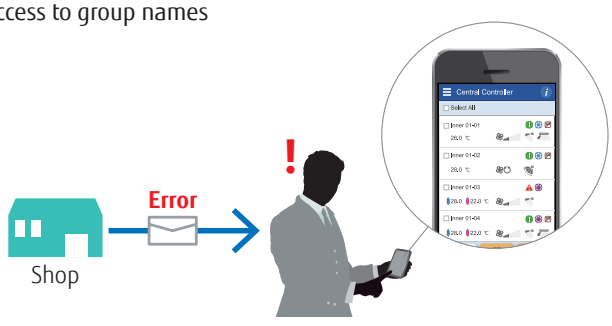
Sensor value monitoring function
Monitor sensor data of indoor unit / outdoor unit, send mail

Notify room temperature by email
Notify by email when the temperature around the air conditioner is out of defined range

Remote monitoring / Remote operation

Central remote controller can control tenant's air conditioner anytime and anywhere.
Example

- Control / Monitoring Fujitsu air conditioner
- Operation status notification by email
- Access to group names



Specifications

Model name`	UTY-DCGYZ2
Power Supply	100-240 V 50/60 Hz
Dimensions (H x W x D) (in.(mm))	5-5/16 × 8-1/2 × 1-1/2 (134.6 × 216.1 × 37.9)
Weight (lbs. (g))	1-21/32 (750)

System Controller Software

UTY-APGXZ1

System Controller provides advanced integrated monitoring & control of VRF network system from small to large buildings



Max. controllable **4** VRF network systems

Max. controllable **400** outdoor units

Max. controllable **1,600** indoor units

- Up to 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are available to meet different needs.

System Controller Lite Software

UTY-ALGXZ1

System Controller Lite is designed for small and medium size buildings



Max. controllable **1** VRF network system

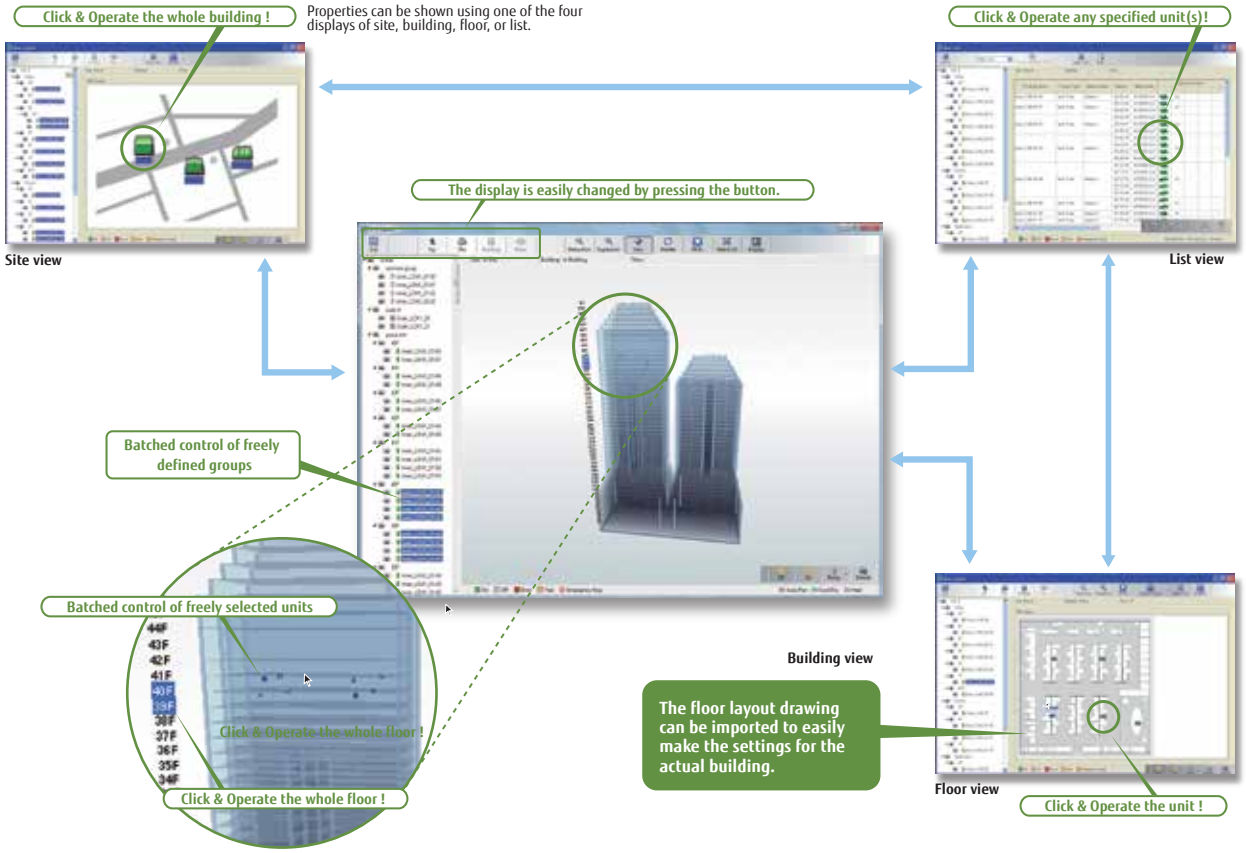
Max. controllable **100** outdoor units

Max. controllable **400** indoor units

- Controls up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units.
- In addition to air conditioning precision control function, a variety of management software add-ons are available as options to meet customers needs.

User friendly view and operation

- **The building can be viewed and controlled in a 3D click-able perspective view**: Four different views are available – site, building, floor, or list view.
- **Flexibility to define groups for group control:** Indoor units can be freely grouped for simple control from a BMS tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.



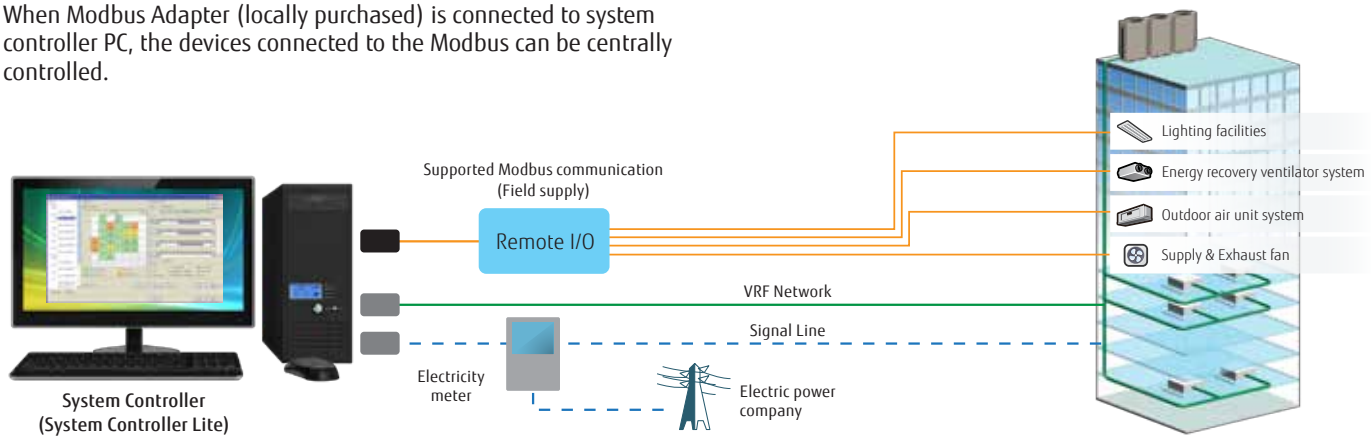
Note:
2D floor layout / 3D building display are not available for System Controller Lite.

System Controller and System Controller Light (continued) Software

Control of 3rd party devices via Modbus

When Modbus Adapter (locally purchased) is connected to system controller PC, the devices connected to the Modbus can be centrally controlled.

Standard for System Controller
Option for System Controller Lite: UTY-PLGXX2



Operation management & Data management

Schedule management

- Annual schedules can be set for each remote control group / user defined group.
- Start / stop, operating mode, disabling of remote control, and temperature settings can be set up to 143 times per day at minimum 10 minute intervals for up to 101 configurations for each remote controller group.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.



Control of indoor unit

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation

Remote control block

This prohibits changes to the operation mode, temperature, start/stop, etc.

Automatic clock adjustment

The time setting of each controller can be set in group automatically.

Operation status display & email notification

Operation changes provide popup messages, audible sound and emails. Events for the past year are logged for later review.

Database import/export

Imports/exports registration data, layout data, and image data. Only accessible by administrator.

Operating & control record

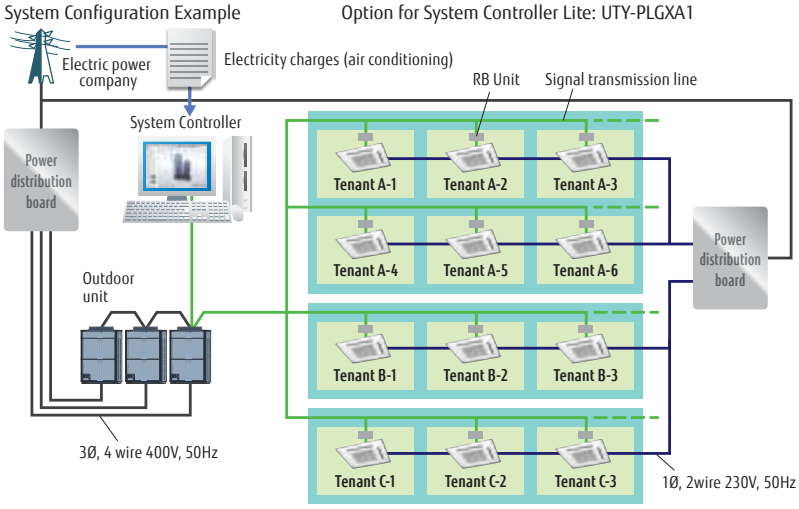
Displays the history of operation status and control.

Electricity charge allocation

Allocation of monthly cost per tenant for HVAC. The Electricity Charge allocation function determines the share of the total utility bill for each of the tenants. See figure. The detailed calculation takes into consideration unused rooms, nighttime electricity charges, etc.

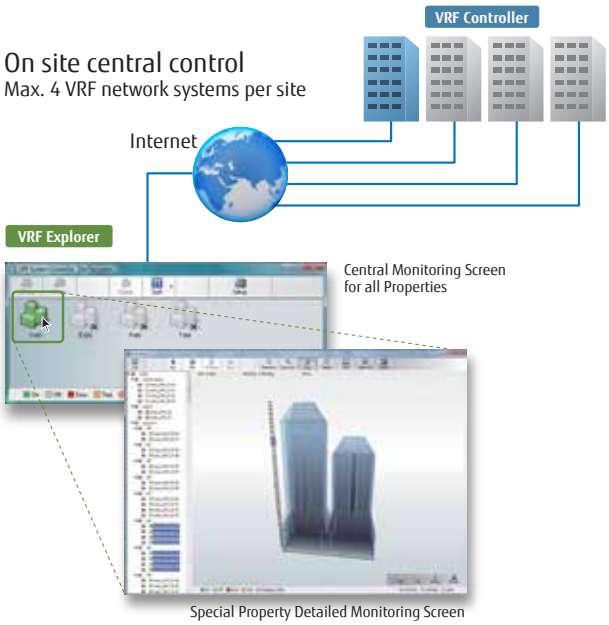
Standard for System Controller
Option for System Controller Lite: UTY-PLGXA1

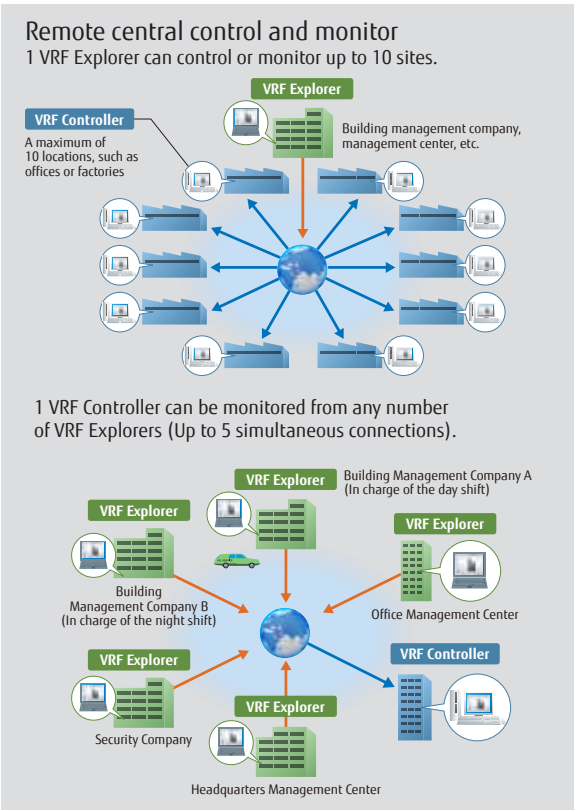
System Configuration Example



Remote management (Standard for System Controller: UTY-PEGXZ1, Option for System Controller Lite: UTY-PLGXR2)

System Controller may be used on site or remotely over various networks for remote central control. VRF Controller runs on site and communicates with VRF system. VRF Explorer runs remotely and provides user interface and communicates with the VRF Controller. VRF Controller and VRF Explorer programs may run on a single PC or on different PCs. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.





Below are additional options for System Controller: UTY-PEGXZ1 and System Controller Lite: UTY-PLGXR2

Energy saving management

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.

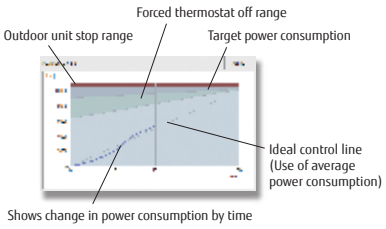
Energy saving graph data:
This graph compares the electricity consumption with the previous month and previous year to make it easy to analyze the energy saving effect.



Energy Saving Management Main Screen

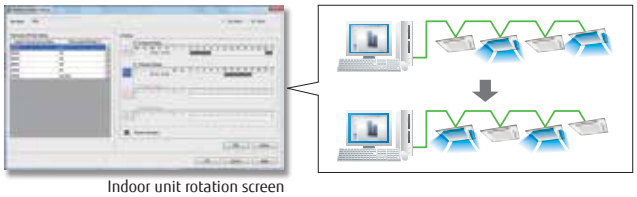
Peak limit operation

To control power consumption and load shedding, the system can be programmed to change the indoor unit set temperature, turn the indoor unit thermostat off, or adjust other parameters to carefully control the amount of power consumed while maintaining comfort.



Indoor unit rotation operation

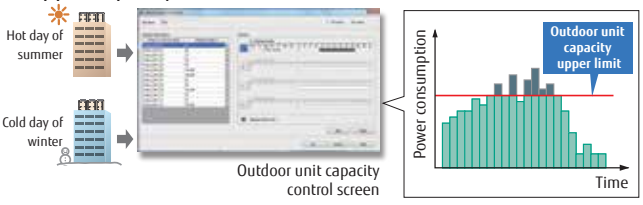
The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort.



Indoor unit rotation screen

Outdoor Unit Capacity Save

The function 'Outdoor Unit Capacity Save', switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. Function can be applied for 50% or more of the upper capacity limit.



Functions summary

Function	Type		System controller		System controller lite				
			UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2
System specification	Max. VRF networks supported		4	–	1	–	–	–	–
	Max. indoor unit / remote controller groups per VRF network		400	–	400	–	–	–	–
	Max. outdoor units per System controller		100	–	100	–	–	–	–
	Max. indoor units / remote controller groups per System controller		1600	–	400	–	–	–	–
	Max. outdoor units per System controller		400	–	100	–	–	–	–
Site supervision	Multi site display		10	–	10	–	–	–	–
	Number of building / 1 site		20	–	–	–	–	–	–
	Number of floor per 1 site		200	–	–	–	–	–	–
	Number of floor per 1 building		50	–	–	–	–	–	–
	3D graphical layout view		●	–	–	–	–	–	–
	2D graphical layout view		●	–	–	–	–	–	–
	List display		●	–	●	–	–	–	–
	Tree display		●	–	●	–	–	–	–
	Group display		●	–	●	–	–	–	–
Error management	Error notification		●	–	●	–	–	–	–
	Audible alarm		●	–	●	–	–	–	–
	Error email notification		●	–	●	–	–	–	–
History	Error history		●	–	●	–	–	–	–
	Operation history		●	–	●	–	–	–	–
	Control history		●	–	●	–	–	–	–
Operation control	Individual control	On/Off	●	–	●	–	–	–	–
		Operation mode	●	–	●	–	–	–	–
		Room temperature	●	–	●	–	–	–	–
		Fan speed	●	–	●	–	–	–	–
		Air flow direction	●	–	●	–	–	–	–
		Economy mode	●	–	●	–	–	–	–
		Room temperature set point limitation	●	–	●	–	–	–	–
		Test operation	●	–	●	–	–	–	–
		Antifreeze	●	–	●	–	–	–	–
		Outdoor unit low noise setting	●		●				
	Individual management	Remote control prohibition setting	●	–	●	–	–	–	–
		Temperature upper and lower limit setting	●	–	●	–	–	–	–
		Filter sign reset	●	–	●	–	–	–	–
	Other	Memory operation	●	–	●	–	–	–	–
		Pattern operation	●	–	●	–	–	–	–
Schedule	Annual Schedule		●	–	●	–	–	–	–
	Special day setting		●	–	●	–	–	–	–
	On /off per day		72	–	72	–	–	–	–
	On / off per week		504	–	504	–	–	–	–
	Day off		●	–	●	–	–	–	–
	Min. unit of timer setting (Minutes)		10	–	10	–	–	–	–
	Low noise mode Weekly schedule		●	–	●	–	–	–	–
Remote managemment	Remote monitoring		●	–	–	●	–	–	–
	Remote operation control		●	–	–	●	–	–	–
	Remote function setting		●	–	–	●	–	–	–
	Web Remote Controller		●	–	–	●	–		
Electricity charge apportionment	Apportionment charge/bill calculation		●	–	–	–	●	–	–
	Tenant (block) setting		●	–	–	–	●	–	–
	Common facilities apportionment setting		●	–	–	–	●	–	–
	Rated power consumption allotment setting		●	–	–	–	●	–	–
	Individual calculation at cooling and heating		–	● *	–	–	●	–	–
	Electricity meter supported		–	●	–	–	●	–	–
Energy saving management	Indoor unit rotation		–	●	–	–	–	●	–
	Peak cut control		–	●	–	–	–	●	–
	Outdoor unit capacity save		–	●	–	–	–	●	–
	Record of energy saving operation		–	●	–	–	–	●	–
	Energy saving information		–	●	–	–	–	●	–
	Power consumption monitor		–	●	–	–	–	●	–
	Electricity meter supported			●		–	–	●	–
External Device Control	Monitor		●	–	–	–	–	–	●
	Control		●	–	–	–	–	–	●
Others	Database import/export		●	–	●	–	–	–	–
	Automatic clock adjustment		●	–	●	–	–	–	–
	Multi language		7 languages	–	7 languages	–	–	–	–

●● : Available. – : Not available.

*:Power calculation application software is necessary, please contact the local Fujitsu representative.

Computer system requirements:

Model name	System Controller	System Controller Lite
Operating system	• Microsoft Windows 7 Home Premium (32-bit or 64-bit) SP1 • Microsoft Windows 7 Professional (32-bit or 64-bit) SP1 • Microsoft Windows 8.1 (32-bit or 64-bit) • Microsoft Windows 8.1 Pro (32-bit or 64-bit) • Microsoft Windows 10 Home (32-bit or 64-bit) • Microsoft Windows 10 Pro (32-bit or 64-bit) Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® CoreTM i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using public telephone line) • USB ports (Maximum of 5 ports) (Required only for the server PC that works as VRF controller) – Maximum of 1 USB ports are required for WHITE-USB-KEY connection – Maximum of 4 USB ports are required for Echelon U10 USB Network Interface NOTE: Maximum number of required USB ports depends on the applicable system configuration.	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using public telephone line) • USB ports (Maximum of 2 ports) (Required only for the server PC that works as VRF controller) – 1 USB port is required for WHITE-USB-KEY connection – 1 USB port is required for Echelon U10 USB Network Interface NOTE: Maximum number of required USB ports depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	

•Personal computer that satisfies the following system requirements

•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF network)

Packing list	For System controller		For System controller Lite				
	System controller	Option Energy manager	System Controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving	Option Central Control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1

Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.

System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

AIRSTAGE Integration Manager™

powered by niagara framework®

FUJ-VRF-8025

FUJ-VRF-8125

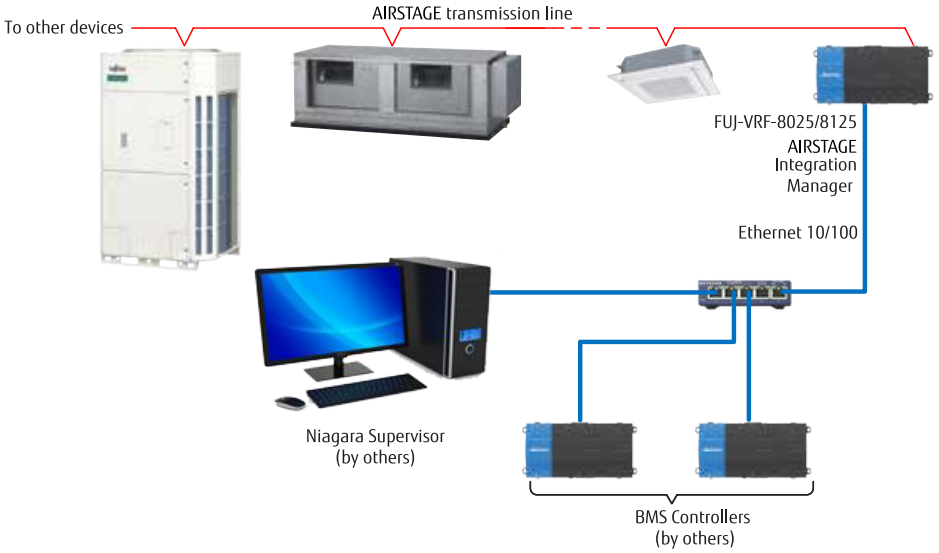


Bundle includes: JACE 8000, Lon adapter, VRF driver for up to 25 or 125 total ODU + IDU, power adapter, 5 years software maintenance

Fujitsu is proud to announce an all-new hardware platform optimized for the Niagara Framework by Tridium Inc. – the AIRSTAGE Integration Manager™ (powered by Niagara). This "next-generation" controller is a dramatic evolution in integrating AIRSTAGE systems worldwide, featuring a new global design that functions with legacy systems and has the ability to scale for future needs.

The AIRSTAGE Integration Manager™ (powered by Niagara) is a compact controller and integration platform for connecting AIRSTAGE equipment and devices to any commercial Building Management System (BMS). The AIRSTAGE Integration Manager controller not only provides seamless BMS integration, it includes a guided configuration tool, basic monitoring and control functions, an alarm console, and cloud-based access (through a standard web browser via Ethernet or wireless LAN, or remote over the internet).
The licensing model for the AIRSTAGE Integration Manager controller is simple, and features native AIRSTAGE and standard open-protocol drivers, including BACnet, LonWorks, and Modbus. Optional IO and field bus expansion modules provide ultimate flexibility and expandability. The AIRSTAGE Integration Manager controller operates with Niagara 4, the latest version of the Niagara Framework, for optimum performance. In larger facilities, multi-building applications and large-scale control system integrations, Niagara 4 Supervisors can be used with AIRSTAGE Integration Manager controllers to aggregate information, including alarms and historical and real-time data, to create a single unified application.

System Diagram:



Efficient Global Design

The new, modular design of the AIRSTAGE Integration Manager controller makes it easy to install, integrate and deploy. Tool-less installation with expansion capability reduces installation complexity and improves flexibility. Systems integrators can focus on engineering solutions, not assembling components.

Key Features

Intuitive User Interface - Configuration and control software is custom-designed for AIRSTAGE systems. No experience with the Niagara platform is necessary. Users can easily check system status by glancing at the front panel LEDs to diagnose network issues.

Global Capacity Licensing and Upgrade Capability - The controller is purchased pre-licensed for 25 or 125 AIRSTAGE devices (indoor + outdoor units). Device license upgrades, in increments of 50, can be purchased in the future as your needs grow.

Modular Design For Easy Installation And Expansion - The LonWorks® module for AIRSTAGE connection is included. Up to 4 option modules directly attach to the controller for on board IO or additional communications ports, including types for LonWorks®, RS232 and RS485 networks. Controller and option modules are designed for easy mounting on a 35mm-wide DIN rail.

Global Power Compatibility - 24VAC or 24VDC power source. 120/24V power supply with adapter plugs included.

5-year Software Maintenance Agreement Included - Your Niagara software is protected with free updates to the latest Niagara versions. No need to worry about security patches or compatibility with other Niagara devices.

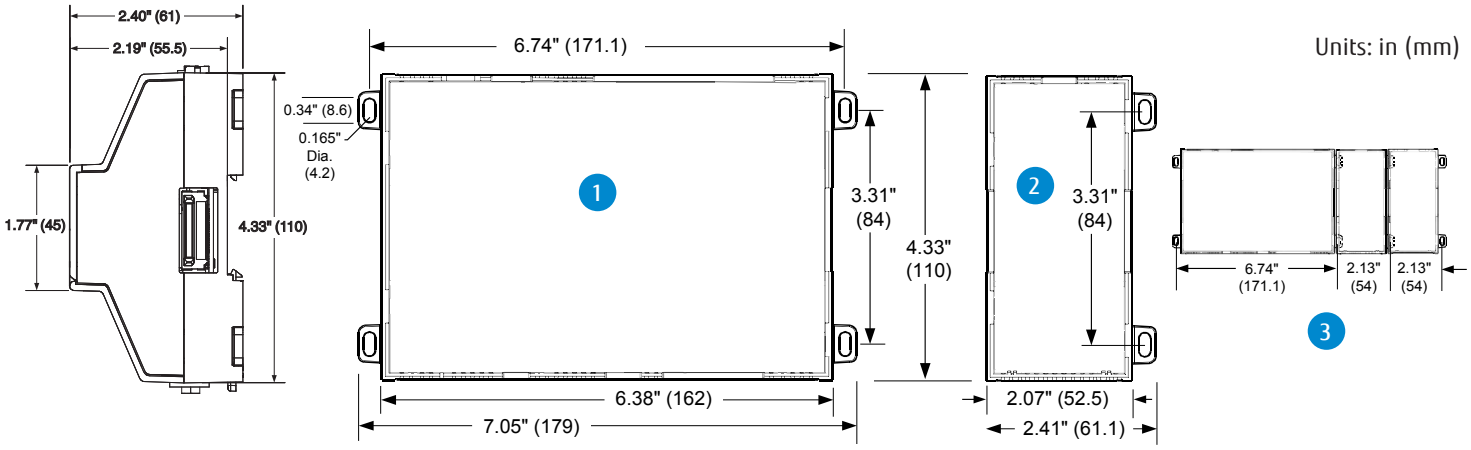
AIRSTAGE Integration Manager (continued)

Hardware specifications

TI AM3352: 1000MHz ARM® Cortex™-A8	Secure boot
1GB DDR3 SDRAM	Supply requirements: 24VAC rated at 24VA minimum, or 24VDC rated at 1A (24W) minimum; a 120/24V wall adapter is included
Removable micro-SD card with 4GB flash total storage/2GB user storage	Runs Niagara 4: 4.10
USB type A connector Back-up and restore support	Real-time clock
(2) isolated RS-485 with selectable bias and termination	Batteryless
(1) LonWorks FTT-10A expansion module included (for connection to AIRSTAGE transmission line)	Niagara Analytics 2.1 is compatible with Niagara 4.4 and 4.6
(2) 10/100MB Ethernet ports	Real-time clock

JACE® 8000 controller Mounting & Dimensions

1. JACE 8000 controller. Allow at least 1.5" (38mm) clearance around all sides
2. Expansion module. Up to four (4) may be used. See "Expansion Module and IO Configurations"
3. Distances between center of tabs from one unit to another unit



Compatible with (DIN43880) enclosures
Suitable for mounting to a panel or to an EN50022 standard 35mm rail

VRF	Compatible models	V-II / VR-II/ J-IVS / J-IV / J-IIIL
	Max. number of units	up to 125 OU+IU per JACE
	Max. number of VRF networks	1 per Lon adapter, up to 4 Lon adapters per JACE, depends on the license used
	Interface	JACE 8000: Lon adapter PC: Ethernet 10/100Mb port
Niagara	Version	Niagara 4.9
	Max. Points	about 20,000, depends on the license used

BACnet® Gateway (Hardware)

UTY-VBGX

Max. controllable 1 VRF network system

Max. controllable 32 outdoor units

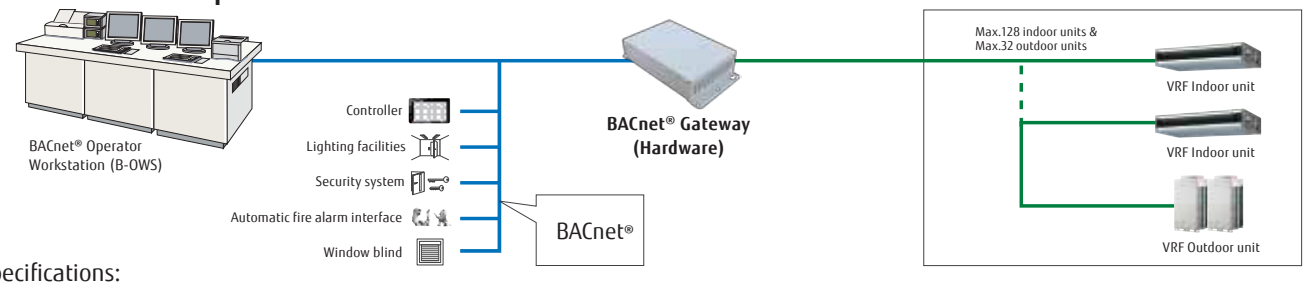
Max. controllable 128 indoor units



BACnet® Gateway connects a VRF system to a BMS via BACnet® IP.

- A maximum of 128 indoor units and 32 refrigerant systems can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

Installation example



Specifications:

Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF networks	1
Number of connectable Gateways / one VRF network	4

Model name	UTY-VBGX
Power supply	208-240V 50/60Hz, single phase
Input power (W)	4
Dimensions (H x W x D) (in.(mm))	10-1/4 × 2-5/16 × 5-11/16 (260 × 59 × 145)
Weight (lbs.oz.(g))	39oz (6100)

BACnet® Gateway

FJ-AC-485-1 One-to-One



Connects one VRF indoor unit to a BMS via BACnet MSTP.

- Connects to the AIRSTAGE indoor unit's UART port (CN65) with a supplied interface cable.
- Compatible with the BACnet MSTP protocol over RS485
- Simple configuration from onboard DIP switches (no software tools required)
- Simultaneous control of the indoor unit by a Fujitsu remote controller and the BMS
- Total control and monitoring of the AC unit from the BMS using the indoor unit's internal variables including dual heat/cool setpoints, run time counter, error indication and more

BACnet®/Modbus Gateway

FJ-VRF-775-4 / 16 / 64



Connects four, sisteen or sixty-four VRF devices to a BMS.

- Normally configured for use with the industry-standard BACnet IP protocol, it also supports BACnet MSTP, Modbus TCP, Modbus RTU, and many Home Automation System protocols as well
- Scalable-licensing architecture reduces cost by allowing you to pay for only as many units as you need. 4, 16, and 64-device configurations are available
- Compact design (3.5" x 4.2" x 2.3") is mountable on a DIN rail or wall
- Quick and easy installation – simply mount; connect the VRF transmission line, power source, and Ethernet; then configure the device and scan in VRF equipment
- Simple configuration from the included Intesis MAPS software tool
- Simultaneous control of indoor units by a Fujitsu remote controller and the BMS

Network Converter for LONWORKS®

UTY-VLGX

Control up to **4** units to one BMS

Max. controllable **100** outdoor units

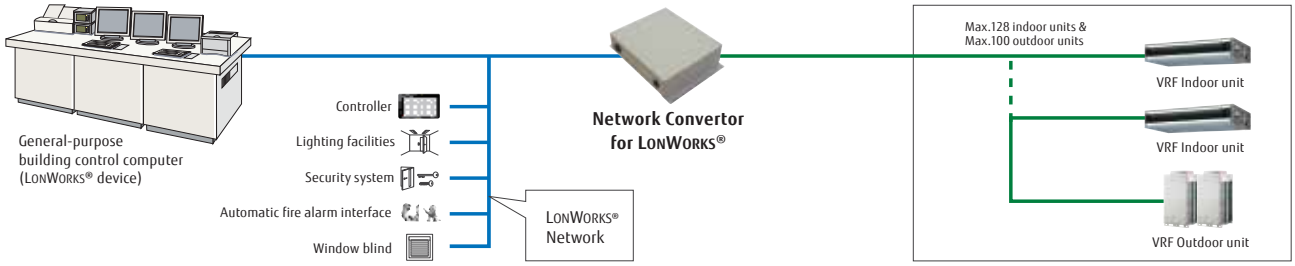
Control up to **100** outdoor units



Connects VRF network system to a BMS network via LONWORKS® open network.

- Easy-to-use PC-based configuration software
- The UTY-VLGX enables central monitoring and control of a VRF network system from a BMS through a LONWORKS® FTT-10A interface.
- Up to 128 Indoor units can be connected to one Network Converter for LONWORKS®

Installation example



Specifications

Model name	UTY-VLGX
Power Supply	208-240V 50/60Hz, Single phase
Input power (W)	4.5
Dimensions (H x W x D) (in.(mm))	2-5/8 × 11-5/16 × 8-5/16 (67 × 288 × 211)
Weight (lbs.oz.(g))	3lbs. (1,500)

Transmission specifications (BMS side)

Transmission speed	78 kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

MODBUS® Converter

UTY-VMGX

Control up to **9** units to one BMS

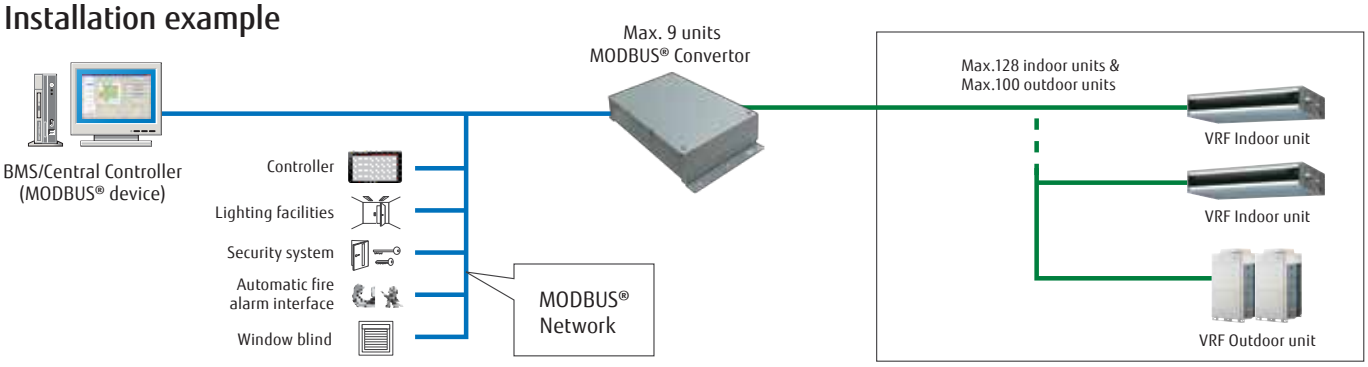
Control up to **100** outdoor units

Control up to **128** indoor units



VRF System can be integrated with a building management system supported by MODBUS® RTU

Installation example



Specifications

Model name	UTY-VMGX
Power Supply	AC220/240V 50/60Hz AC208/230V 60Hz
Input power (W)	Max. 3
Dimensions (H x W x D) (in. (mm))	9-1/4 × 4-3/4 × 1-3/4 (235 × 120 × 45)
Weight (lbs.oz.(g))	39 oz. (1,100)

Wi-Fi Interface Modules

UTY-TFSXJ4
for indoor units with UART port; **uses AIRSTAGE Mobile app**

FJ-AC-WIFI-1
for indoor units with UART port; **uses AC Cloud Control App**

FJ-RC-WIFI-1NA
for 3-wire indoor units; uses AC Cloud Control App



For: Cassettes, Ducted Units, Ceiling Mount, Floor/Ceiling Mount (Universal), Wall Mounted, Floor Mount Units

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AIRSTAGE Mobile

Control, simplified

Clean interface enables effortless system management.

AIRSTAGE Mobile unique features:

- The air conditioner and the app can also be connected for direct control without a wireless access point
- Outdoor and Room Temperature display
- Group functions for monitoring and on/off control of the group
- User access levels
- Specialty functions, if available on your system, include: Economy, Energy Saving Fan, Occupancy, Powerful, and Outdoor Unit Low Noise



Home screen | Mode change | Fan speed change | Weekly timer

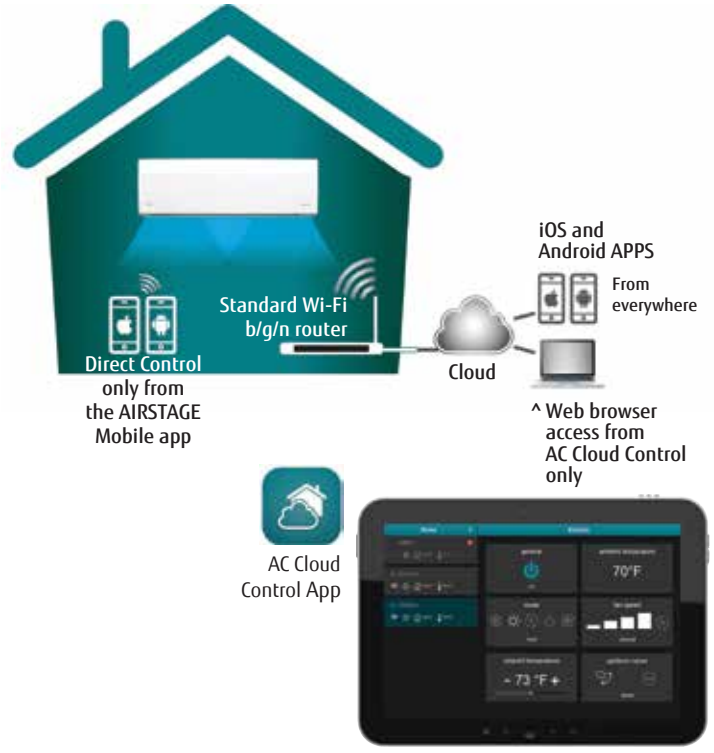
AIRSTAGE Mobile app and adapter

Compatible V-Series, J-Series models: All TLAV2 models.

Control your Fujitsu AIRSTAGE VRF indoor unit from anywhere over Wi-Fi, using a smartphone, tablet or PC^ via the Internet.

How does it work?

- The indoor units are controlled from an intuitive, user-friendly interface.
- A wired device installed near each unit controls its operation and communicates over Wi-fi to the Internet router.
- A server in the cloud manages the whole process.



Features (AIRSTAGE Mobile app and AC Cloud Control app)

- Manages the VRF indoor unit using the iOS or Android app.
- Programming of the indoor unit operation schedule.
- Offers access to several indoor unit settings including Mode, Temperature Set Point, Fan Speed, and much more.
- Room Temperature Display.
- Offers early startup function to bring the space to desired set point prior to being occupied.
- Offers delayed setback after leaving.
- Provides instant alarm notifications.
- Operation status reporting, available in several languages
- Over-the-air updates

Network Converters

UTY-VTGX (DC power supply)

UTY-VGGXZ1 (AC power supply)

Max. controllable 16 single indoor units

Max. controllable 100 Network Converters



UTY-VTGX
DC power supply



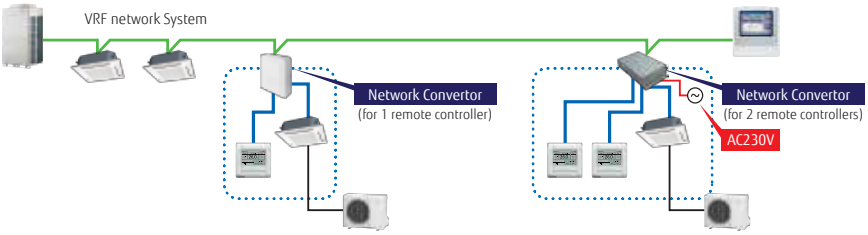
UTY-VGGXZ1
AC power supply

Network Converters add Fujitsu mini-split control to the VRF communication network

Installation example

- The converters are required when connecting single split units to the VRF communication network system. Both VRF system and single splits can be managed using the VRF central controller.
- See Network Converter submittal for Halcyon indoor unit model compatibility.

Single split with VRF



Specifications

Model name	UTY-VTGX		UY-VGGXZ1
Power Supply	polar 3-wire DC12V	non-polar 2-wire DC12V	220-240 V 50/60 Hz
Input power (W)	Max. 2		Max. 3
Dimensions (H x W x D) (in.(mm))	4-5/8 × 5-1/2 × 1-9/16 (117 × 140 × 40)		2 × 10 × 6 (54 × 260 × 150)
Weight (oz.(g))	9 (250)		38.8 (1,100)

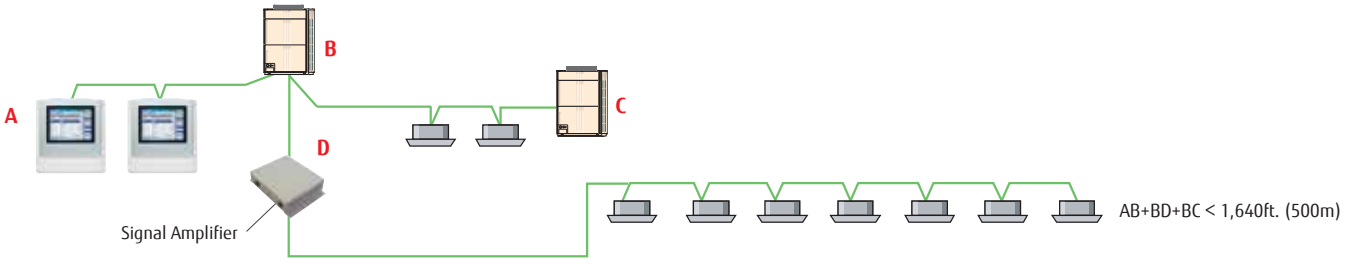
Signal Amplifier

UTY-VSGXZ1



- Communication Line length can be extended up to 11,811ft. (3,600m) with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a single VRF communication network system.
- A signal amplifier is required
  1. When the total wiring length of the communication line exceeds 1,640ft. (500m).
  2. When the total number of units on the communication line exceeds 64.

Installation example



Specifications

Model name	UTY-VSGXZ1
Power Supply	208-240V 50/60Hz, Single phase
Input power (W)	4.5
Dimensions (H x W x D) (in.(mm))	2-5/8 × 11-5/6 × 8-5/16 (67 × 288 × 211)
Weight (lbs.oz.(g))	3lbs. (1,500)

External Switch Controller

UTY-TERX

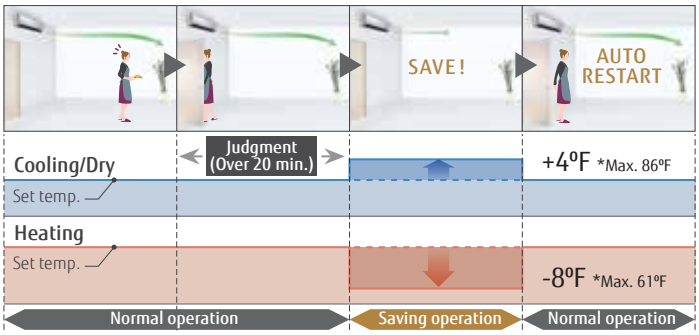


Air conditioner operation can be controlled by connecting external sensor switches

- Very suitable for hotel rooms and similar. Input from external devices such as card-keys, temperature sensors, occupancy sensors, etc. can be used to control ON/OFF, Room temperature, Fan speed and other Master control functions.

Flexibility with possibility to set different temperatures for cooling and heating

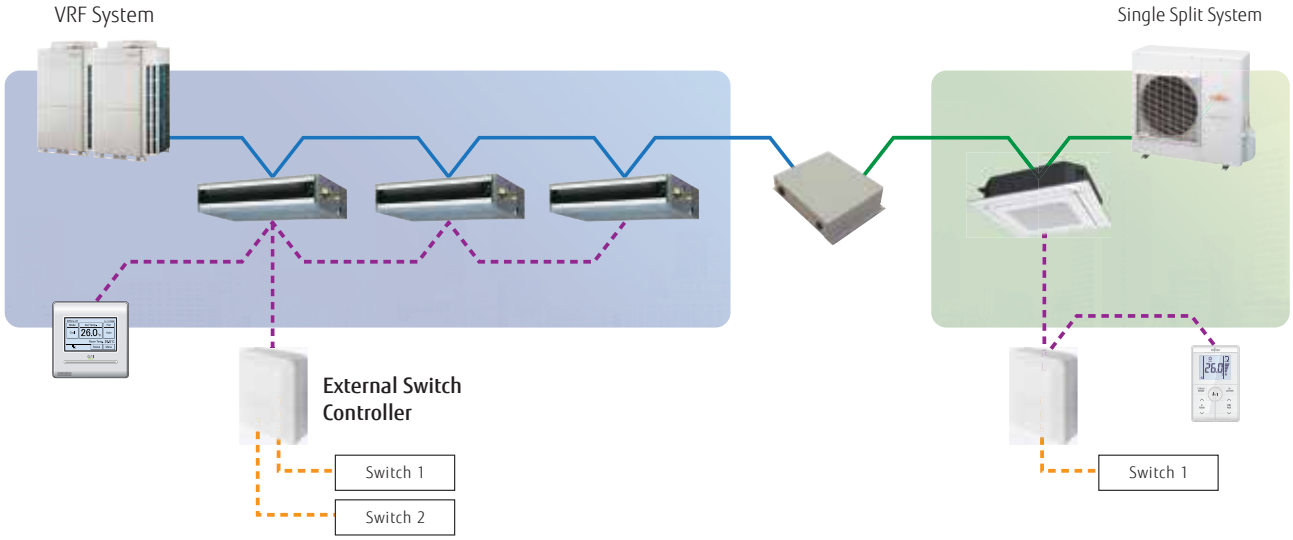
Occupancy sensors can be used to setback temperature and fan speed when room is unoccupied. These setbacks are reverted when room becomes occupied again.



Functions

On/Off	●	Fan speed setting	●
Off	●	Operation mode setting	●
Room temperature setting	●	Prohibition setting	●

System overview



Specifications

Model name	UTY-TERX
Power Supply	DC6.5 - 16V
Dimensions (H x W x D) (in. (mm))	1-11/16 × 5-1/2 × 4-5/8 (43 × 140 × 117)
Weight (lbs.oz.(g))	9 oz. (250)

DC12V is supplied by the indoor unit.

3rd Party Thermostat Interface

UTY-TTRXZ1, TTRXZ1-KIT



The Thermostat Interface enables 3rd party conventional or smart thermostats to be used in the AIRSTAGE VRF system

TTRXZ1-KIT

Includes the most commonly used parts needed to install a UTY-TTRXZ1 Third Party Thermostat Interface. TTRXZ1-KIT Includes:

(1) UTY-TTRXZ1 Third Party Thermostat Interface

(1) VPL24-210V Transformer

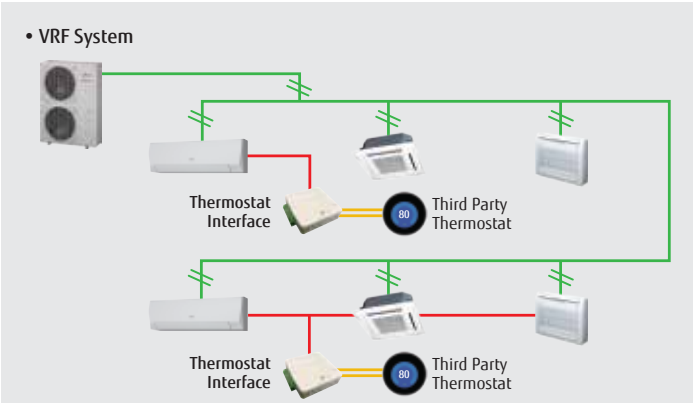
(1) UTY-WIFI Plug

UTY-TTRXZ1 Functions

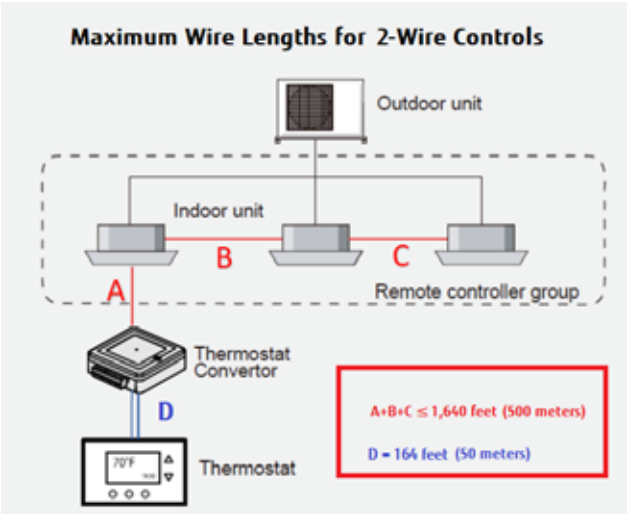
Unit Control Features	ON/OFF
	Temperature Setpoint (from 3rd party thermostat)
	One- or Two-stage Heating/Cooling
	Heating/Cooling Response Adjustment
	Delay OFF Adjustment
	Fan Speed
Service/Maintenance	Error notification via LED lights

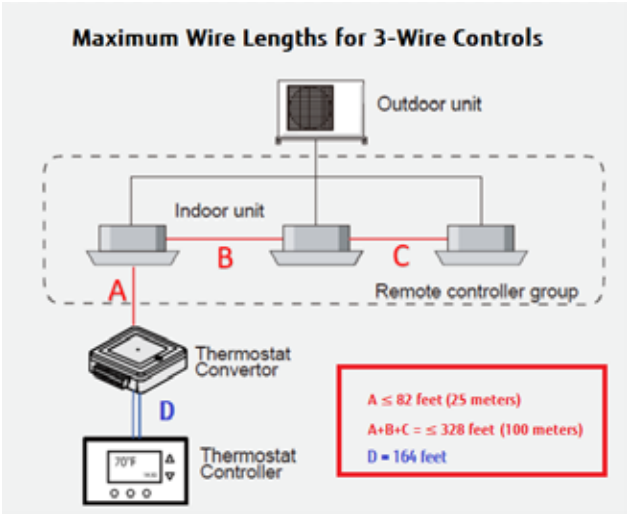
Example



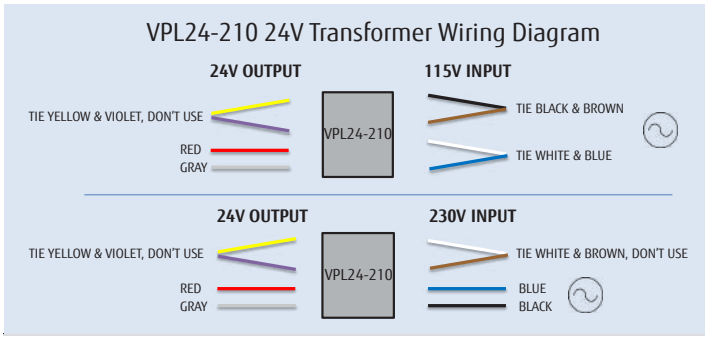


Maximum Wire Lengths





24V transformer (sold separately or included in TTRXZ1-KIT)



UTY-TTRXZ1 comes pre-set for 2-wire controls.
For 3-wire systems, remember to change "Set 1" to 3-wire mode.

Specifications

Model Name	UTY-TTRXZ1
Max. Connectable Indoor Units	16
Input Power Max.	0.6 W
Dimensions (H×D×W)	1-1/16 × 3-7/16 × 3-7/16 in. (27 × 86.7 × 86.7 mm)
Weight	7.8 in. (220 g)

Service Tool Kit

UTY-ASGXZ1-KIT Software

UTY-ASGXZ1-KIT = UTY-ASGXZ1 + Echelon Adapter 75010R-U10

Monitor and control up to **400** indoor units

Monitor and control up to **100** outdoor units



Extensive monitoring and analysis functions installation, maintenance, and system status analysis

- Operation status can be checked and analyzed in detail
- Offer secure remote monitoring and control
- Storage of data on system operation status on a PC allows remote access.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large-scale buildings or hotels
- This software can be connected to any point of transmission line with included Echelon USB adapter

Automatic operation check

Time saving automatic self-diagnosis of system operation with detailed report of status and condition.



[Note] Use only as a guide and judge for yourself finally.

Whether each sensor value is normal is judged automatically.

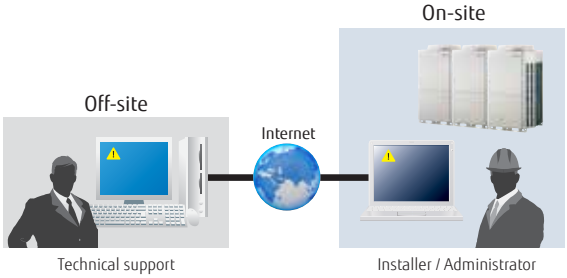
- ☑ Discharge temperature normal value OK
- ☑ Super heat volume normal value OK
- ☑ High pressure pipe normal value OK
- ☑ Low pressure pipe normal value OK

...etc.



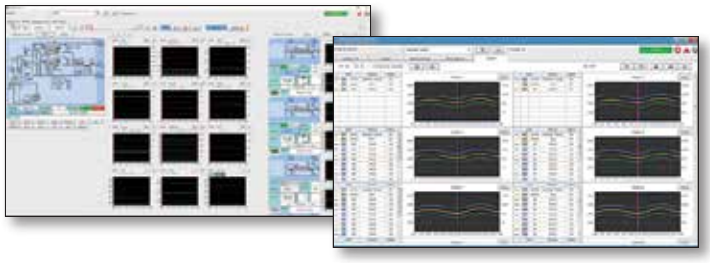
Remote technical support & maintenance

Efficient tech support with online chat function, on-site check screen that can be shared remotely or in real time on site.



Multiple trend graph display and comparison

- Multiple graphs can be displayed in Service Tool as required
- Two offline data files can be viewed and compared simultaneously



Personal computer system requirements:

Model name	UTY-ASGXZ1-KIT
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• 2 USB ports - 1 USB port is required for software protection key connection - 1 USB port is required for Echelon® U10 USB Network Interface
Software	Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later

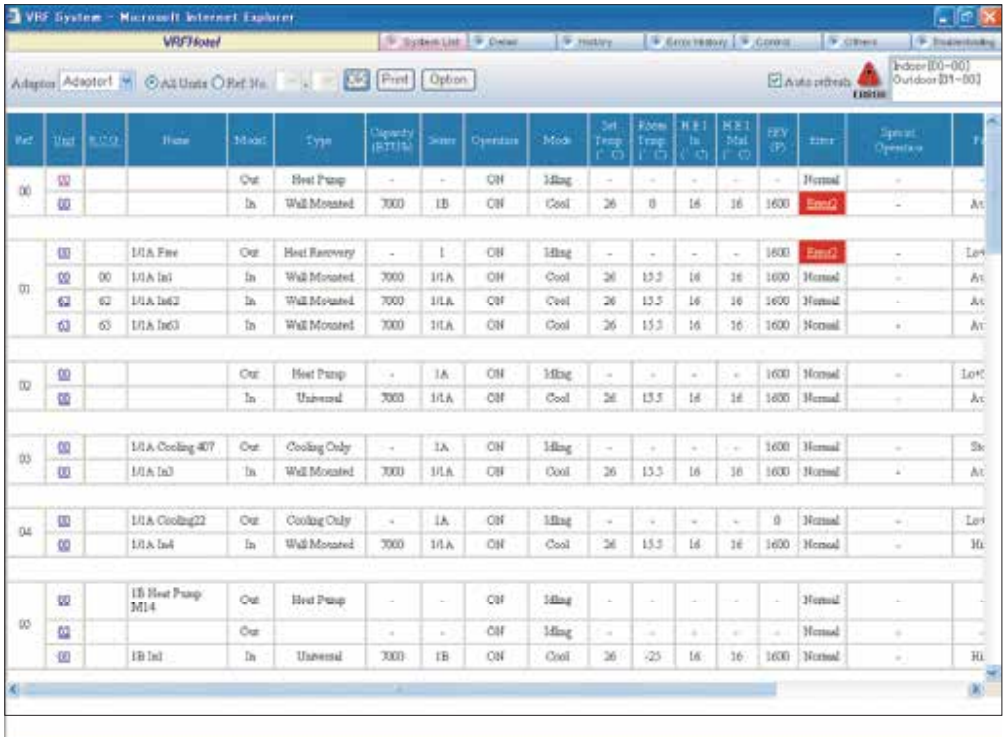
Packing List	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements

•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Service Tool UTY-ASGXZ1-KIT (continued)

Functions



1) System List

Displays the overall operation status of all or specified units in the system in list form.

2) Equipment Detail (Diagram)

Displays detail information for sensor values, electrical components etc. for specified units in schematic. Information can be used to check operation status of units and make detail analysis.

3) Equipment Detail (List)

Displays the detail information for sensor values, electrical components etc. of units in a specified refrigerant system.

4) Operation History

Record of indoor units or outdoor unit operation. The displayed operation history can be printed or saved to a CSV file.

5) Error History

Displays the information for each unit. The information can sequentially be displayed up to 50 items.

6) Remote File Download

Operation history for specified system, units and times can be downloaded.

7) Commissioning Tool

During a test run, the outdoor unit/indoor unit sensor data can be saved for completing the commissioning report. When test concludes, this data can be exported in CSV file format.

8) Network Topology Analyzer

A list of units connected to the VRF system network is displayed in network segments in tree form.

9) Remote Setting

Setting of the indoor unit can be performed remotely.

10) System Time Setting

Time of day setting, for all controllers in a system, can be performed simultaneously.

11) Software Version

The software version of units is displayed.

12) Central Adjustment

Limitations on individual indoor units can be adjusted from the central controller (remote controller limit, temperature limit).

13) Model Name Writer

A custom model name can be given for an indoor unit.

14) Error Memory Reader

If an error occurs in an indoor unit, the system records the operation data before the error and saves to a CSV file.

Note: To perform "Error Memory Reading", the Service Tool must be connected directly to the corresponding outdoor unit. Refer to the Operation Manual of the Service Tool for detail.

15) Time Guard Information

Data for determining maintenance schedule (integrated time for compressor, fan, etc.) for the indoor and outdoor units can be output to a CSV file.

Web Monitoring Tool

UTY-AMGXZ1 Software

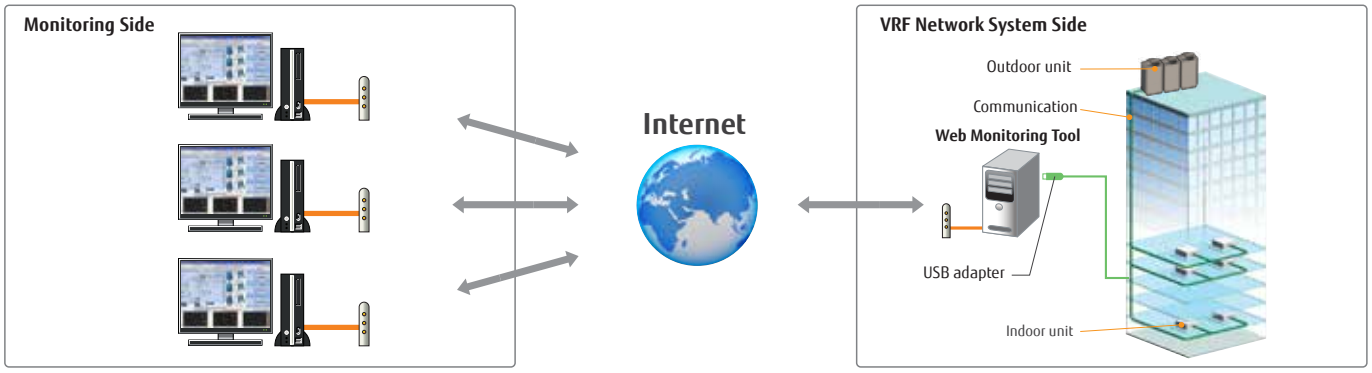
Can support up to **4** refrigerant circuits

Up to **1,600** indoor units supported

Product features

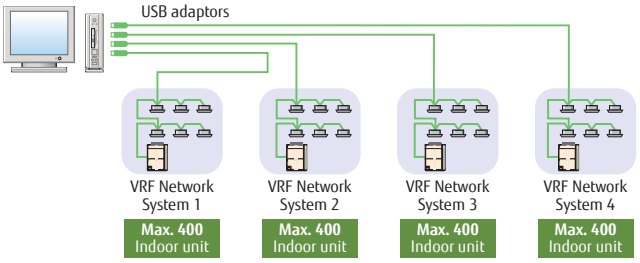
- Enables remote monitoring and troubleshooting
- Remote operation status notification via dedicated internet connection
- No special software needed to view data remotely, requires only general web browser.

Web Monitoring System



Support 4 VRF network systems

Monitoring of up to 1,600 indoor units via USB adapter.
Suitable for large-scale buildings or hotels.



Personal computer system requirements:

Model name	UTY-AMGXZ1
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• USB port (for 10 USB Network Interface Max.4, Software protection key) • Either of the following interface is required for remote connection: - Internet using LAN: Ethement port is required
Software	Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later

Packing list	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

•Personal computer that meet the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Design Simulator

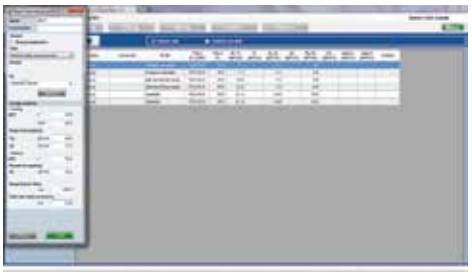
Easy equipment selection, complete selection output, reliable project management

Fujitsu's Design Simulator makes it easy to design and select equipment for complex building HVAC systems. The software output contains all important design data including: Equipment Schedule, Piping and Wiring Layout, etc. (all of the information that typically is needed to estimate a VRF project) Design Simulator simplifies the design process. To design a system, just select the indoor unit types for each system, and the software will automatically select the outdoor unit and create the piping and wiring diagram. Design Simulator also checks all of the equipment information to ensure proper installation.



Step 1 Select the model

Choose the model for each system.



Step 2 Select the Indoor Unit

Choose the unit types and the conditions and the software will select the correct indoor unit. Indoor unit can also be selected manually.



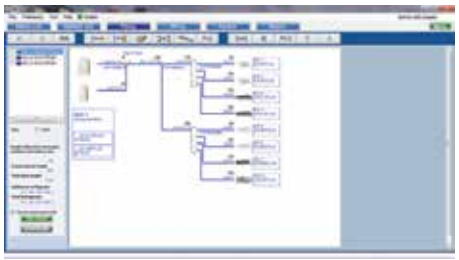
Step 2b Select the Outdoor Air Unit

If desired, choose the "Outside Air Unit" option. Outside Air Units are selected based on required airflow.



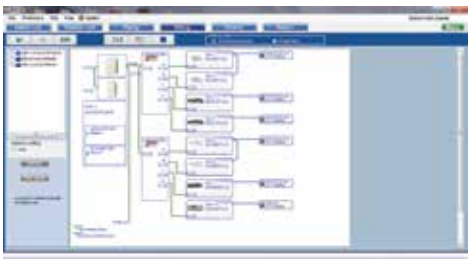
Step 3 Select the Outdoor Unit

Using the Drag & Drop function, connect the indoor unit to the appropriate outdoor unit.



Step 4 Piping Length / Piping Diagram

Piping diagram is created automatically. As piping lengths are entered, system automatically calculates refrigerant charge.



Step 5 Wiring / Remote Control Diagram

Automatically creates the wiring diagram. Simple grouping functions create a custom wiring diagram for the project.



Step 6 Select BMS Gateways and Central Controllers

Choose additional devices to meet the needs of the project.



Step 7 Report Output

Design Simulator creates a project output with all of the project schedules and schematic drawings.

Setting

Design Simulator can be customized for any geographic location.

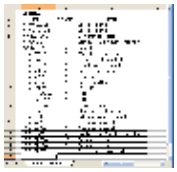
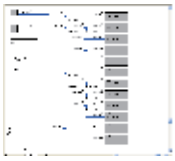
- Units (US conventional / Metric)
- Language Setting
- Custom Database Function
- Output Settings

Design Simulator (continued)

Name of software	Design Simulator	
Latest Version	Design Simulator	Ver 3.6.4.01(PG)
	DB	Ver 2021.07.27(DB)
	Design Simulator Installation	Ver1.0.5.01(PG)
	DB	Ver 2021.07.27(DB)
	Design Simulator Drawing	Ver 0.1.4.01(PG)
	DB	Ver 2021.07.27(DB)
Personal Computer	Compatible machine that runs Microsoft® 8.1/10	
Copyright holder	FUJITSU GENERAL LIMITED	
System requirements	Hardware	CPU: Intel® CoreTM i3 2GHz or higher
		Memory: 2GB or more (Windows® 8.1/10 32-bit) 4GB or more (Windows® 8.1/10 64-bit)
		HDD: 10GB or more of free space
	Display	1024 x 768 or higher resolution
	Software	Internet Explorer® 11.0
		Adobe® Reader® 10.0 or later
		Microsoft® Word 2010/2013/2016/2019PDF Output Microsoft® Word,Excel 2010/2013/2016/2019
		Microsoft® .NET Framework4.6.1 or Higher

Output

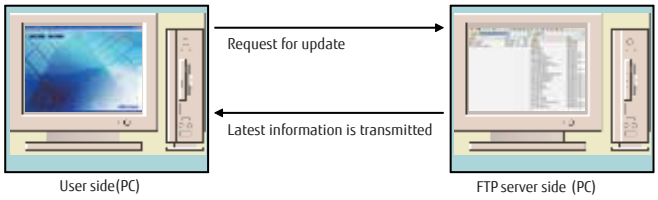
Equipment selections and schedules can be output in standard industry file formats.

- Word format
- Excel format
- Auto CAD format
- 2D Data
- 3D Data (RevitMep data)
- Wiring and piping schematic drawings

Auto Update

Software updates automatically with the latest product data.



- Maintains software integrity
- Maintains software history
- Updates product information

Building Information Modeling (BIM)

Fujitsu provides the Building Information Modeling (BIM) object models and contents for our VRF system to the architect, designer and contractor using Autodesk® Revit® technology .
Required software:
Autodesk® Revit® series software:

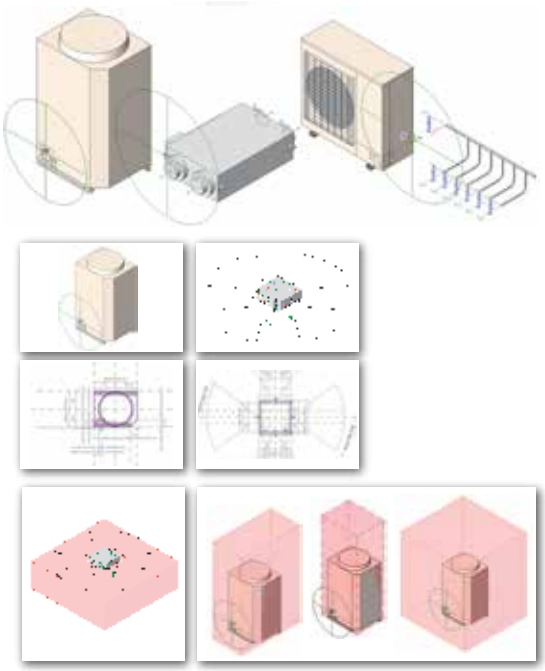
- Autodesk® Revit® Architecture
- Autodesk® Revit® MEP
- Autodesk® Revit® Structure

Data format:

- RFA

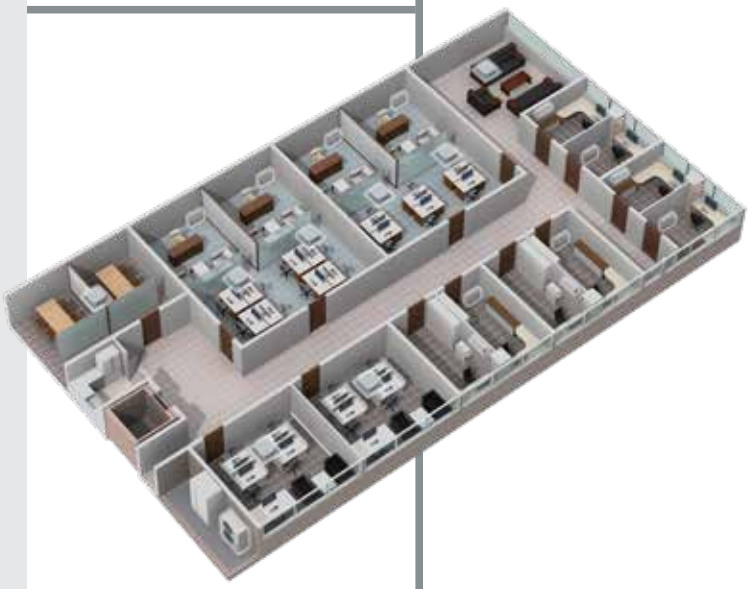
Product parameter

Power source
Input power
Capacity
Airflow rate
Sound pressure level
Dimensions
Weight
Connection pipe diameter
Refrigerant
Material/Color



Optional Accessories Overview







Optional Accessories
For Cassette



UTY-SHZXC

Human Sensor Kit
Room temperature can be controlled by detecting the temperature accurately from the built-in sensor



UTG-CCGVG
For Compact Cassette



UTG-LCGV



UTG-CCGV
For Cassette



UTG-LCGVCW



UTG-LCGVCB
For Circular Flow Cassette

Cassette Grille
Flexibility to match various interiors with extensive cassette grille lineup.

UTZ-VXAA



For Compact Cassette

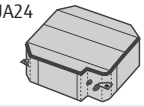
UTZ-VXRA



For Cassette

Outside Air Intake Kit
Outside air can be brought in via the indoor unit by external fan connected to the kit.

UTZ-KXGA for Cassette AUUB30,36
UTZ-KXGB for Cassette AUUB18,24
UTZ-KXGC for Compact Cassette AUUA7 thur AUUA24



Insulation for High Humidity
Optional Insulation kit can be used to avoid condensation in high humidity installation locations.

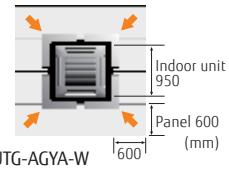


For Compact Cassette
UTR-YDZC



UTR-YDZB
For Cassette

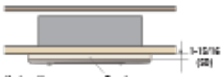
Air Outlet Shutter Plate
If required, a shutter plate can be field installed to make the cassette into a 3-way cassette.



UTG-AGYA-W

Wide Panel
Optional Wide Panel can be used to fill space around cassette.

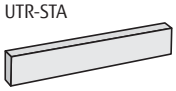
UTG-BGYA-W



Panel Spacer
If required, Panel Spacer can be used to fill vertical space between ceiling and the cassette.

Optional Accessories
For Floor

UTR-STA



Half Concealed Kit
Kit can be used to partly cover floor type indoor units when mounted by a wall.

Optional Controls
For Indoor Units

UTY-SPWX



Highrise 360 Kit
Kit increases the max height difference between outdoor and indoor unit.







Optional Accessories

For Duct & Ceiling



UTD-GXSA-W / UTD-GXTA-W
UTD-GXTB-W

Auto Louver Grille Kit
Elegant Grille kit for comfortable air distribution.



UTY-XSZXZ1

Remote Sensor Unit
Remote sensor for localized temperature sensing and increased comfort.



UTD-LF25NA
UTD-LF60KA

Long Life Filter
Efficient Long Life air filter for reduced service requirements.

UTD-SF045T



UTD-RF204

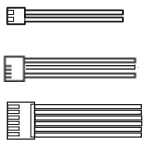
Flange
Adapter Flange for connection of air ducts.

UTZ-PX1NBA
UTR-DPB24T



Condensate Drain Pump

Connection Parts



External Connect Kit & Set
Wire Connection kit for connection of external devices to Indoor unit.



Pipe Connection Units
For branch connections in VRF systems with multiple indoor units.



External Power Supply Unit
Can protect the units in the system even if some powers of indoor units are shut down in the system.

Optional Accessories

For Outdoor Unit

Wind Baffles
Prevent fan stoppage against high wind

Snow Hood
Prevent snow accumulation inside outdoor unit

Hail Guard
Protection of outdoor unit coil from hail

REQUIRED for all AIRSTAGE system installations

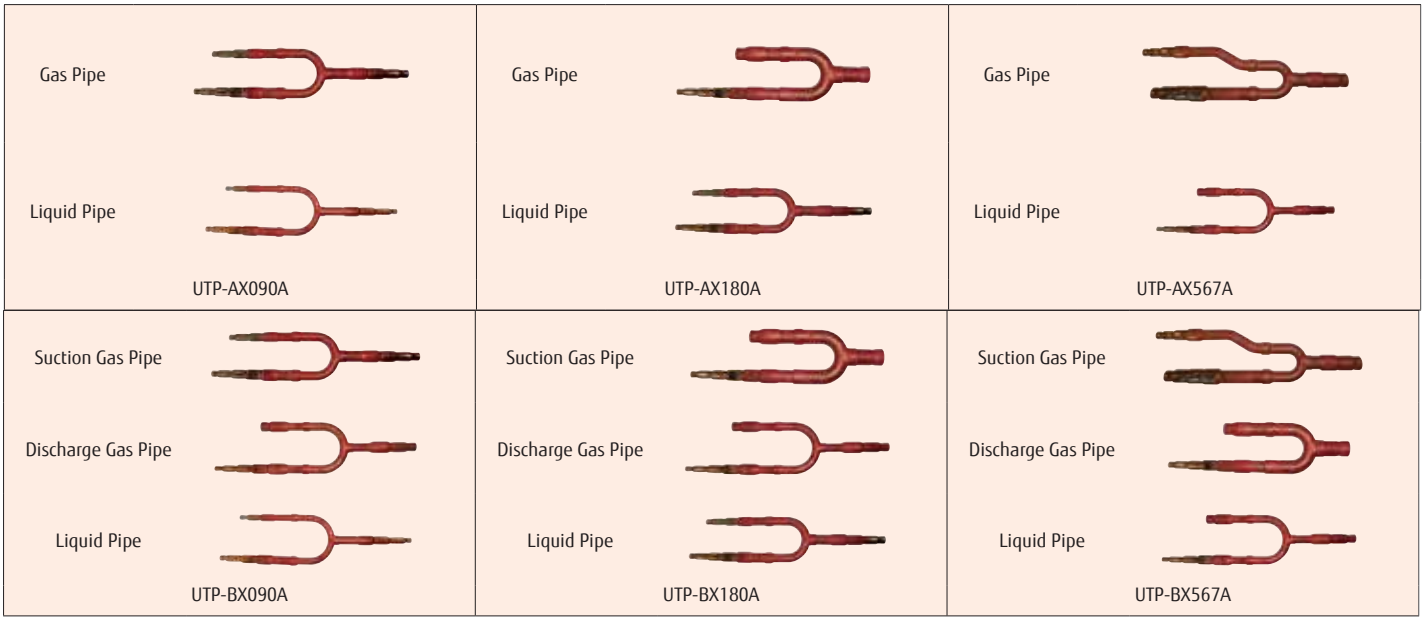
VRF Communication Cable

LonWorks® Cable
K00250LW (250 ft)
K00500LW (500 ft)



Piping Accessories

Separation Tubes



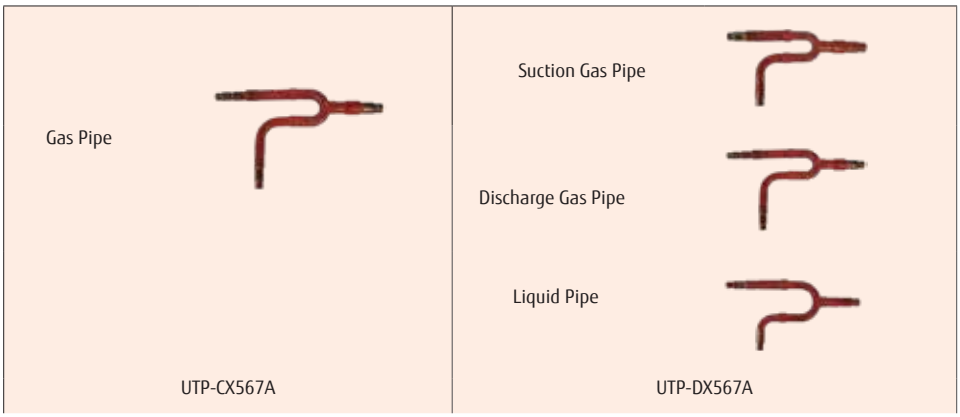
Specifications

Separation Tube

Model name	UTP-AX090A	UTP-AX180A	UTP-AX567A
Total cooling capacity of indoor unit (X) (kBTU/h)	X < 96.5	96.5 ≦ X < 193	193 ≦ X

Model name	UTP-BX090A	UTP-BX180A	UTP-BX567A
Total cooling capacity of indoor unit (X) (kBTU/h)	X < 96.5	96.5 ≦ X < 193	193 ≦ X

Outdoor Unit Branch Kit

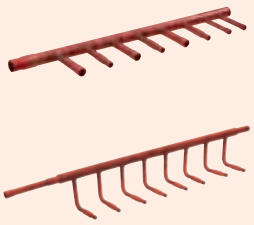
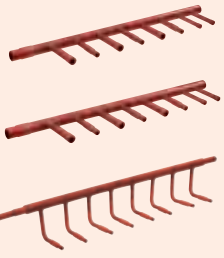


Specifications

Outdoor Unit Branch kit

Model name		UTP-CX567A (for VU-V)	UTP-DX567A (for VU-V)
Number of Outdoor unit	2 outdoor units	1	
	3 outdoor units	2	

Header

6 Branch	8 Branch
Gas Pipe / Liquid Pipe  UTR-H0906L / UTR-H1806L	Gas Pipe / Liquid Pipe  UTR-H0908L / UTR-H1808L
Suction Gas Pipe / Discharge Gas Pipe / Liquid Pipe  UTP-J0906A / UTP-J1806A	Suction Gas Pipe / Discharge Gas Pipe / Liquid Pipe  UTP-J0908A / UTP-J1808A

Specifications
Header

Model name			
	3-6 Branches	UTR-H0906L	UTR-H1806L
	3-8 Branches	UTR-H0908L	UTR-H1808L
Total cooling capacity of indoor unit (X) (kBTU/h)		X < 96.5	96.5 ≦ X < 193

Model name			
	3-6 Branches	UTP-J0906A	UTP-J1806A
	3-8 Branches	UTP-J0908A	UTP-J1808A
Total cooling capacity of indoor unit (X) (kBTU/h)		X < 96.5	96.5 ≦ X < 193

RB Unit

Single type



UTP-RU01DH
Single Type RBU - 27,000 BTU or less

UTP-RU01EH
Single Type RBU - 60,000 BTU or less

UTP-RU01FH
Single Type RBU - 96,000 BTU or less

Multi type



UTP-RU04EH
Multi Type RBU - 191,000 BTU or less
(60,000 BTU or less per branch)



UTP-RU08DH
8 Branch RBU Unit - 245,000 BTU or less
(27,000 BTU or less per branch)



UTP-RU12DH
12 Branch RBU Unit - 324,000 BTU or less
(27,000 BTU or less per branch)

Specifications
RB Unit

Type		Single type			Multi type		
Model name		UTP-RU01DH	UTP-RU01EH	UTP-RU01FH	UTP-RU04EH	UTP-RU08DH	UTP-RU12DH
Power source		Single phase 230V, 50Hz			Single phase 230V, 50Hz	Single phase 230V, 60Hz	
Input power	W	28	28	41	110	226	339
Number of branches		1	1	1	4	8	12
Maximum capacity of connectable indoor units (Q)	kBTU/h	Q ≦ 28	Q ≦ 60	Q ≦ 96	Q ≦ 191*1	Q≦ 245,000	Q≦ 324,000
Maximum capacity of connectable indoor units per branch (Q)	kBTU/h	Q ≦ 27	Q ≦ 60	Q ≦ 96	Q ≦ 60	Q≦ 27,000	Q≦ 27,000
Max number of connectable indoor units per branch		3	8	8	8	6	6
Dimensions (H×W×D)	in. (mm)	7-13/16 × 11-3/4 × 10-9/16 (198 × 298 × 268)			10-1/4 × 25-7/8 × 16-7/8 (260 × 658 × 428)	11-3/4 x 26 x 24-5/16 (298 x 660 x 618)	11-3/4 x 39 x 24-5/16 (298 x 990 x 618)

*1: In case of two RB units connected in series (total 8-branches), maximum capacity of connectable indoor units is up to 191kBTU/h

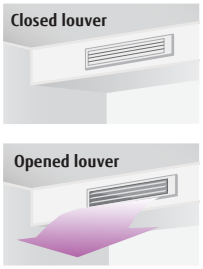
Auto Louver Grille Kit (Option)

Models

UTD-GXSA-W / UTD-GXTA-W

UTD-GXSB-W

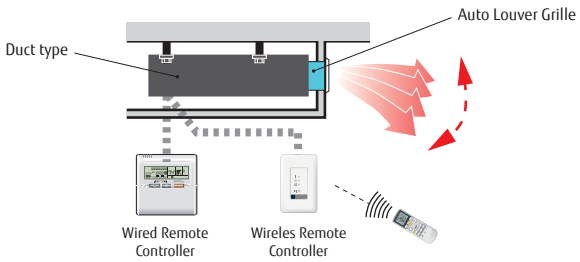




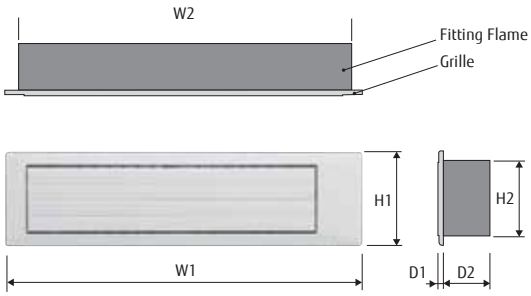
Available for Mini and Slim Ducted Indoor Units (page 52)

Flexible Control

- Convenient control of Auto Louver kit from remote controller of indoor unit.
- Can be used for vertical auto swing or fixed louvers. 4 convenient louver angle settings.
- Louvers close automatically when indoor unit is not in operattion.



Dimensions



Unit: In.

Model Name	W1	W2	H1	H2	D1	D2
UTD-GXSA-W / UTD-GXTA-W	26-7/8	25-3/8	7-1/16	5-13/16	3/8	3-5/16
UTD-GXSB-W	34-3/4	33-1/4				

Specifications

Model name			UTD-GXSA-W / UTD-GXTA-W	UTD-GXSB-W
Applicable Indoor Unit			UTD-GXSA-W: ARUL7/9/12/14TLAV2 | UTD-GXTA-W: ARUL4TLAV2	ARUL18TLAV
Power Supply			Connecting with Control box of indoor unit	
Fixing of Auto Louver Grille			Screw fixing to Flange or Square Duct	
Extension Square Duct Limit			39-3/8" (Max. duct length between indoor unit and grille)	
Net Dimension (H x W x D)		inch (mm)	7-1/16x26-7/8x(3-5/16+3/8) [180x683x(84+9)]	7-1/16x34-3/4x(3-5/16+3/8) [180x883x(84+9)]
Weight	Net	lb.	4.4 (2.0)	5.6 (2.5)
	Gross	(kg)	6.7 (3.0)	7.8 (3.5)
Color			White	
Louver Motor			Stepping Motor	
Accessories			Fitting Flame, etc.	
Operation range	Cooling	°F (°C)	64 to 90 (18 to 32)	
		% RH	80% or less	
	Heating	°F (°C)	50 to 86 (10 to 30)	

Wind Baffles, Snow Hoods, Hail Guards

Protect Your Investment

Wind Baffles ensure continued operation during high wind conditions, especially with roof-mounted units. Wind Baffles prevent nuisance stoppage of outdoor unit.



Actual product color may be different from the colors shown here. Specifications and design are subject to change without notice.

Features
- Solid & sturdy design for durability and reduced vibrations
- Same color as outdoor air unit for better aesthetics
- Easy installation

Model	Wind Baffle
Model	Wind Baffle
AOU72RLAVL	**UTZ-DUWBRA** (Models include 2 UTZ-DUWBUA units)
AOU96RLAVL	
AOU120RLAVL	

NOTE: Wind baffles do not extend low ambient cooling capacities. Please refer to Application Bulletin AH20201101A for best practices regarding wind baffle usage.



Snow Hoods protect your outdoor equipment from poor performance due to accumulation of snow.



Model	Group	Snow Hood					
		UTZ-DUSHUA	UTZ-DUSHTA	UTZ-DUSHRA	UTZ-DUSHVTA	UTZ-DUSHVUA	UTZ-DUSH1VLA/UTZ-DUSH2VLA/UTZ-DUSH3VLA
AOU72RLAVL	R			1			
AOU96RLAVL				1			
AOU120RLAVL				1			
AOUA72-96ULBV5/ULCV5	VT				1		
AOUA120ULBV5/ULCV5	VU					1	
AOUA144-192ULBV5/ULCV5	VL						1 / 1 / 2 (includes 1 top, 1 rear, 2 side)

Hail Guards protect your outdoor unit coil from hail damage.





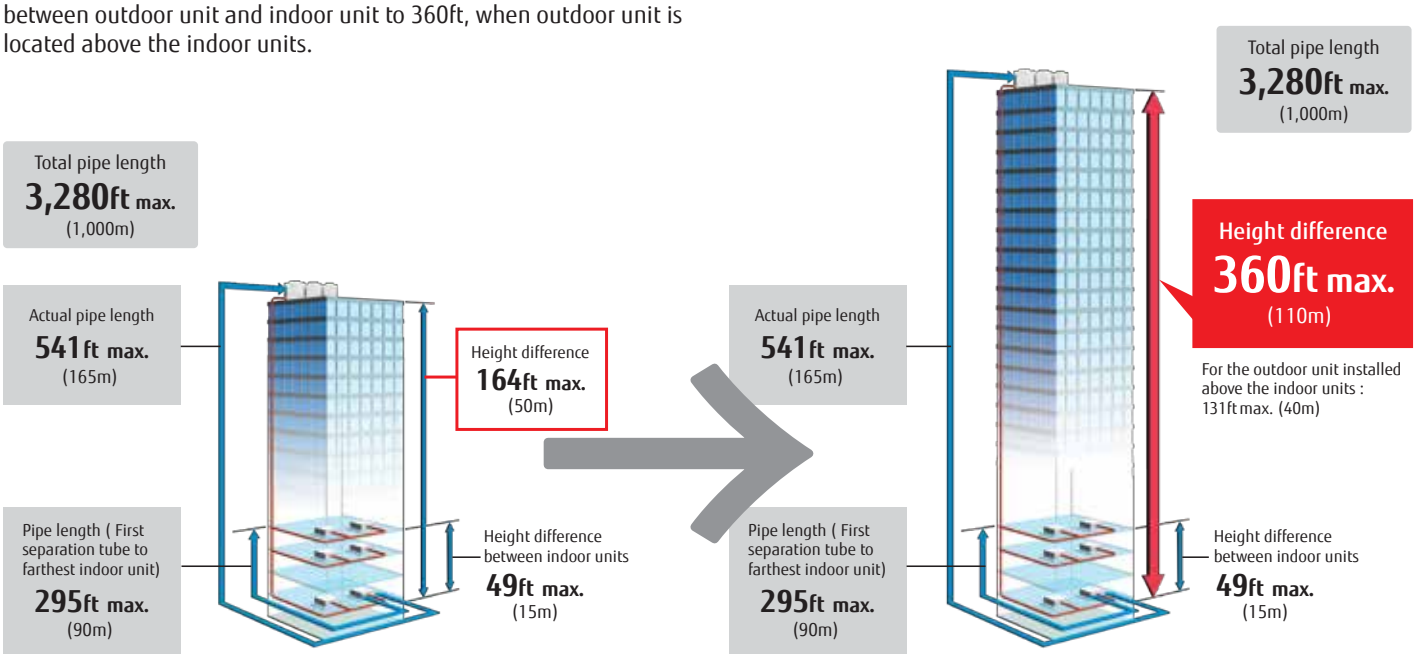
Model	Group	Hail Guard					
		UTZ-DUHGUA	UTZ-DUHGTA	UTZ-DUHGRA	UTZ-DUHGVTA	UTZ-DUHGVUA	UTZ-DUHGVLA
AOU72RLAVL	R			1			
AOU96RLAVL				1			
AOU120RLAVL				1			
AOUA72-96ULBV5/ULCV5	VT				1		
AOUA120ULBV5/ULCV5	VU					1	
AOUA144-192ULBV5/ULCV5	VL						1

Highrise 360 Kit (for VU-V Series*)

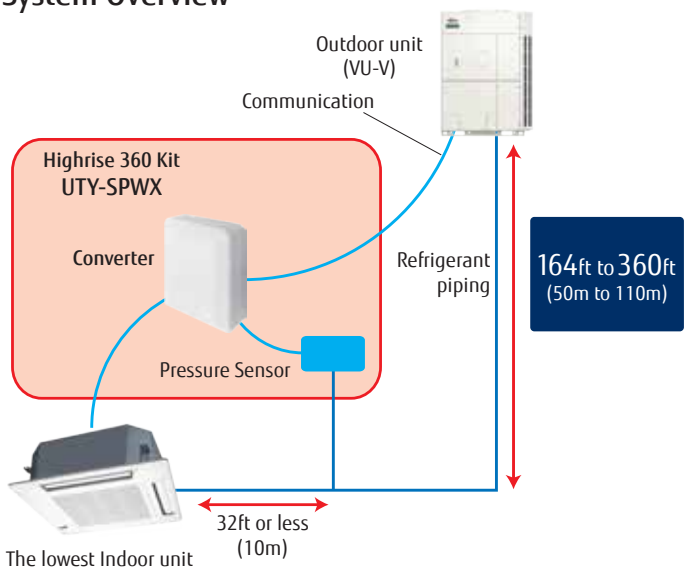
UTY-SPWX

Design flexibility

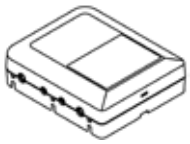
The Highrise 360 kit increases the 164ft max height difference between outdoor unit and indoor unit to 360ft, when outdoor unit is located above the indoor units.



System Overview



Highrise 360 Kit Components

Pressure sensor kit (Converter)	
Refrigerant pressure sensor	
Joint pipe	

* NOTE: Heat pump options only

Things to know before you buy a FUJITSU system

Complete System Warranty

Standard warranties vary depending on model:

Fujitsu AIRSTAGE V-Series and AIRSTAGE J-Series (J-IIIL) systems come standard with a 2-Year Compressor / 1-Year Parts warranty.

Fujitsu AIRSTAGE J-IV and J-IVS Series systems come standard with a 7-Year Compressor / 5-Year Parts warranty.

Extended warranties include:

10-Year Parts / Compressor warranty for qualified Fujitsu AIRSTAGE V and J-Series.

12-Year Parts / Compressor warranty for qualified AIRSTAGE J-Series Systems installed in a residential location by an Elite Contractor.

For full details, see AIRSTAGE Warranty Statements.

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

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 installation manual carefully before using this product. The installation 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.

Heat Pump Disclaimer

In most climates a heat pump will handle all of your heating needs. However, this system sometimes requires some other additional source of heat to satisfy heating requirements in the coldest environments. All of Fujitsu's heat pumps use inverter technology and as such offer a wider operating range and more heat capacity than a standard heat pump but will not provide adequate heating if improperly sized or operated outside of its operating range. Specifications vary by model; please consult your contractor before choosing a heat pump as your only source of heat.
Systems will maintain temperature up to +/-4 degrees relative to set temperature. To increase energy efficiency on multi-type systems, you should turn off the evaporators when heating or cooling is not needed.

Disclaimer

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

Certifications

ISO

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

Intertek

- ISO9001
- ISO14001

ASTM

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

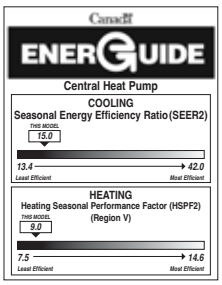
RoHS Compliant

Fujitsu participates in the RoHS Directive, which is the Restriction of Hazardous Substances in electrical and electronic equipment. It is an EU directive intended to 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.

AHRI Energy Guide® Program (U.S.)

To view AHRI numbers or Energy Guide labels, please go to www.ahridirectory.org.

HRAI EnerGuide® Program (Canada)



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