FUJITSU

AIRSTAGE™

VRF

Light Commercial & Commercial, Residential

FUJITSU GENERAL LIMITED

AIRSTAGE™

VRF

VRF

Light Commercial & Commercial, Residential

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

FUJITSU GENERAL (Euro) GmbH participates in the ECP program for VRF.
Check ongoing validity of certificate:
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FUJITSU GENERAL LIMITED

VRF Outdoor Units Lineup

Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	44.8-45	50.4-50	55.9-56	62.4	67.2-68	72.8-73
HP		4	5	6	8	10	12	14	16	18	20	22	24	26
J-IVL Series					 AJY072 LELBH	 AJY090 LELBH	 AJY108 LELBH	 AJY126 LELBH	 AJY144 LELBH	 AJY162 LELBH				
J-IV Series		 AJY040 LBLBH, AJY040 LELBH	 AJY045 LBLBH, AJY045 LELBH	 AJY054 LBLBH, AJY054 LELBH										
J-IVS Series		 AJY040 LCLBH	 AJY045 LCLBH	 AJY054 LCLBH										
V-III Tropical Series Heat Pump	Space Saving Set Model				 AJY072 LNTCH	 AJY090 LNTCH	 AJY108 LNTCH	 AJY126 LNTCH	 AJY144 LNTCH	 AJY162 LNTCH	 AJY180 LNTCH	 AJY198 LNTCH	 AJY216 LNTCH	 AJY234 LNTCH
	Energy Efficiency Set Model								 AJY144 LNTCHH	 AJY162 LNTCHH	 AJY180 LNTCHH		 AJY216 LNTCHH	 AJY234 LNTCHH

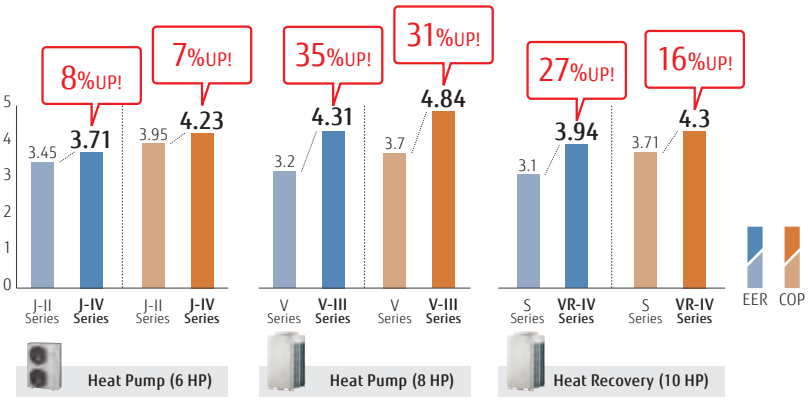
78.3-78	84.8-85	89.4-90	95.9-95	100.5-100	107-106	113.5-113	120-118	125-123	130-128	135.0	140.0	145.0	150.0
28	30	32	34	36	38	40	42	44	46	48	50	52	54
 AJY252 LNTCH	 AJY270 LNTCH	 AJY288 LNTCH	 AJY306 LNTCH	 AJY324 LNTCH	 AJY342 LNTCH	 AJY360 LNTCH	 AJY378 LNTCH	 AJY396 LNTCH	 AJY414 LNTCH	AJY432 LNTCH	AJY450 LNTCH	AJY468 LNTCH	AJY486 LNTCH
 AJY252 LNTCHH	 AJY270 LNTCHH	 AJY288 LNTCHH	 AJY306 LNTCHH	 AJY324 LNTCHH	 AJY342 LNTCHH	 AJY360 LNTCHH	 AJY378 LNTCHH	 AJY396 LNTCHH	 AJY414 LNTCHH				

Feature

High Efficiency

Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger

DC twin rotary compressor

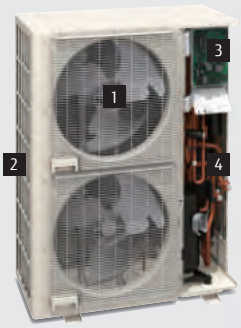


* These specifications are determined by ducted combination.

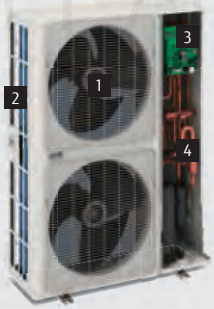
ALL DC

High efficiency design with top class SEER/SCOP

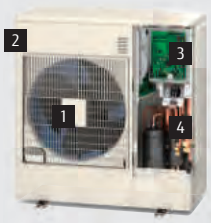
All VRF Series including J-IVL Series have DC technology to achieve high efficiency operation. This enhances the durability and reliability of VRF Series.



J-IVL Series



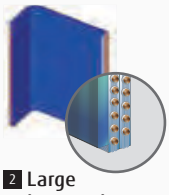
J-IV Series



J-IVS Series

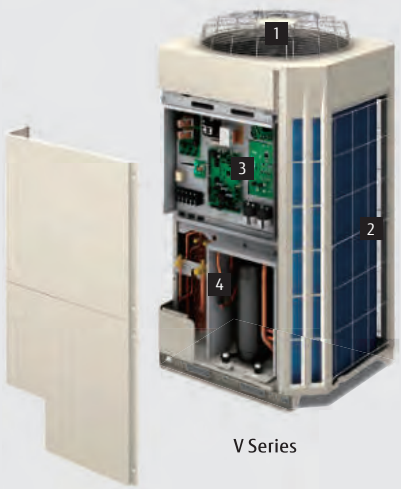
1 DC fan motor

3 DC invertor control



2 Large heat exchanger

4 Subcool heat exchanger



V Series

1 3 phase DC fan motor

3 Sine-wave DC invertor control

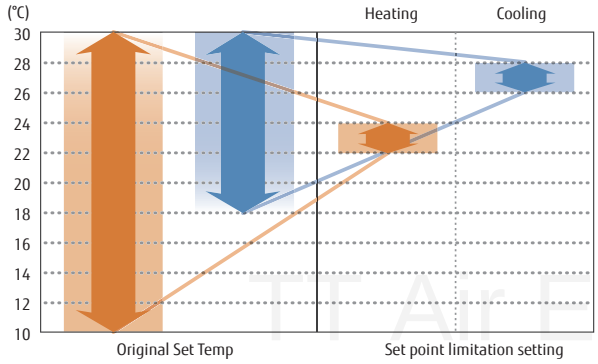
2 Large heat exchanger

4 Subcool heat exchanger

Operation Performance is Efficiently Controlled.

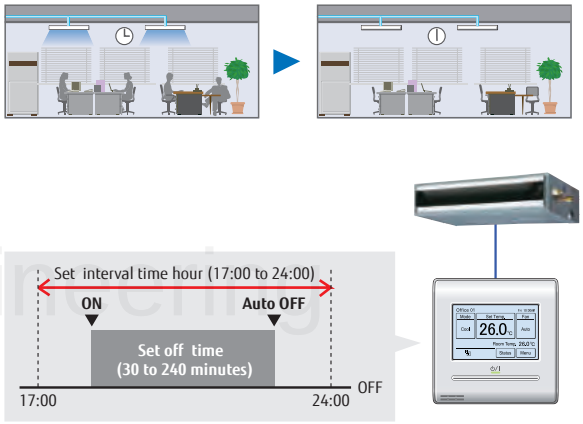
Room temperature set point limitation

The minimum and maximum temperature ranges can be limited, which provides further energy saving while maintaining the comfort of the occupants.



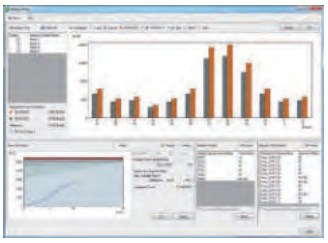
Auto-off timer

New wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy. Furthermore a new wired remote controller can set up the interval of time in case operation stops.

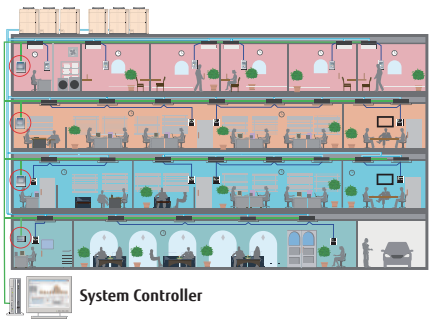


Energy saving management

A variety energy saving operations can be set and managed depending on the season, weather, and time period.
Excellent energy saving operation is performed by using System Controller.

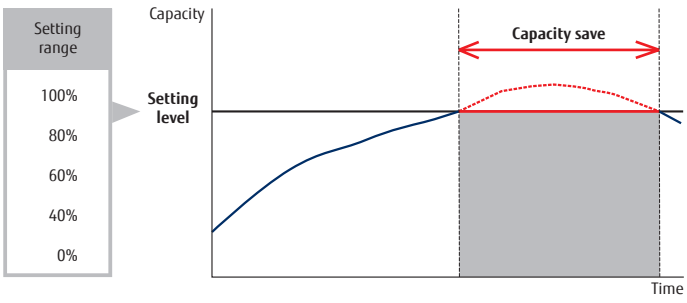


Screen image is Energy manager software (Option)



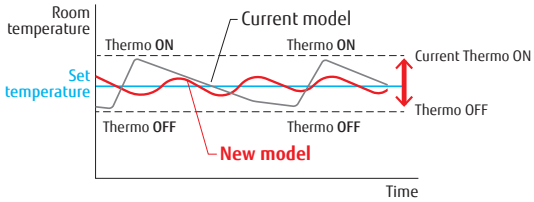
Capacity save operation

Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.



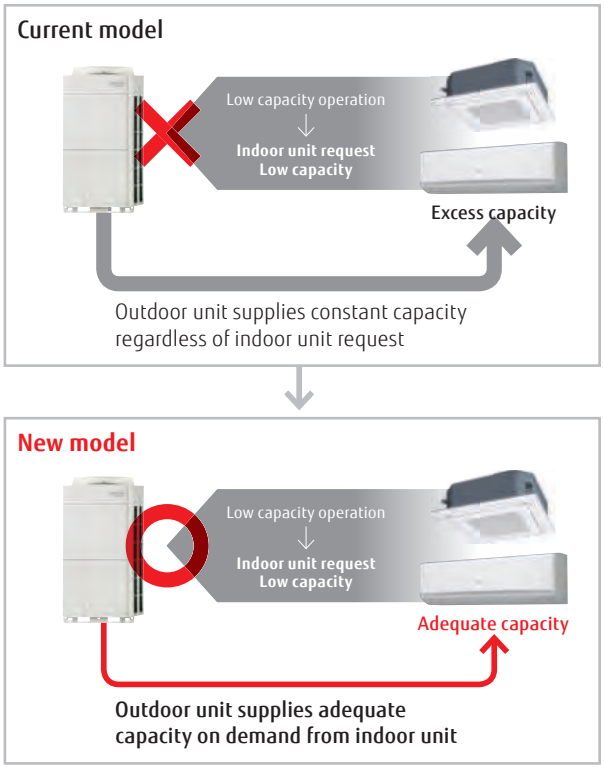
New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



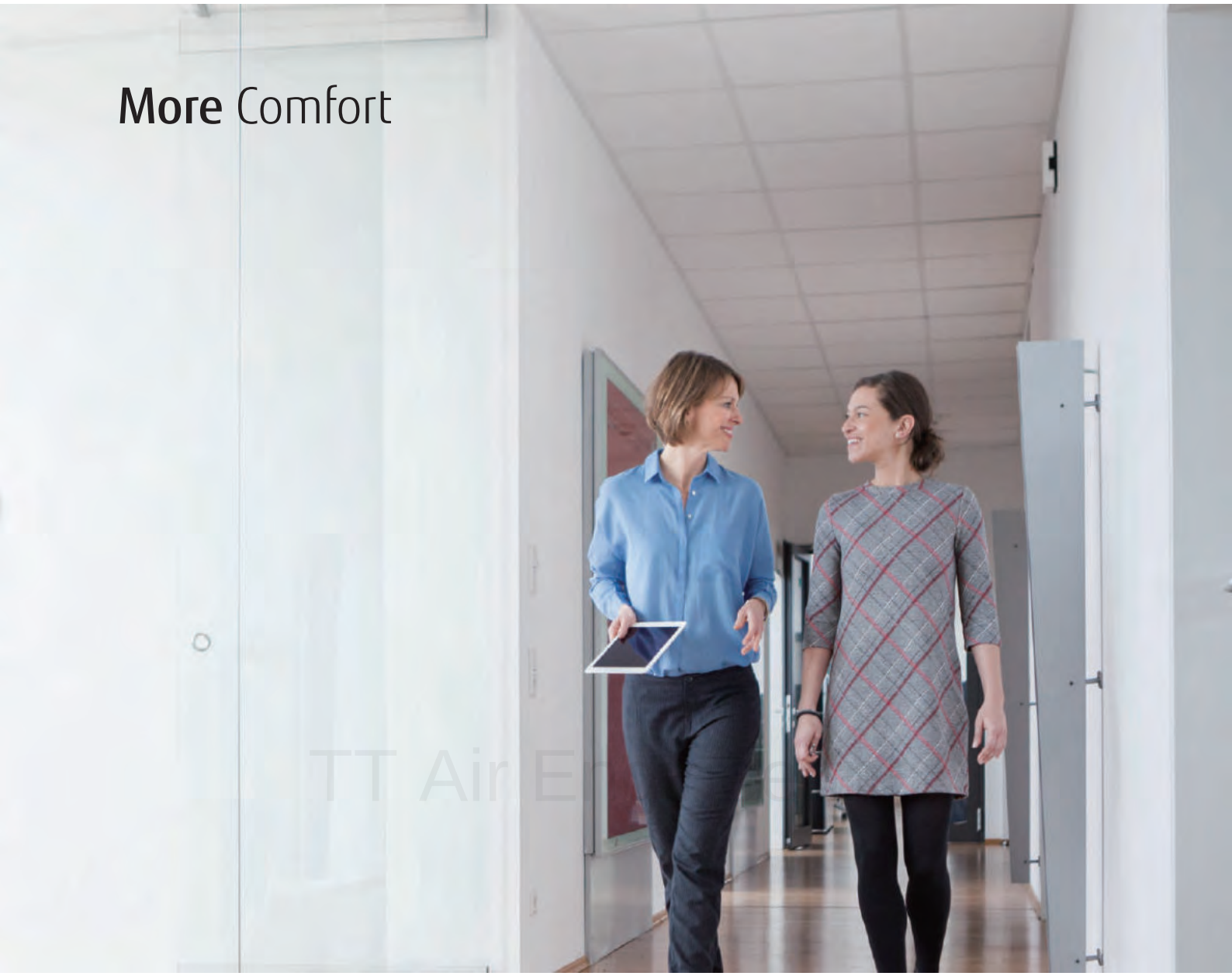
Current refrigerant control
Thermostat-ON/OFF occurs frequently.
→ The comfort is not good since room temperature often changes. Energy saving is not good since compressor is repeated starting and stopping frequently.

New refrigerant control
Room temperature keep target temperature since thermostat-ON/OFF occurs less than Current control. Energy saving is good since compressor continues operation for a longer time than Current control.



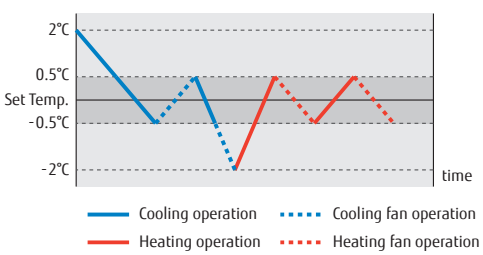
* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

More Comfort



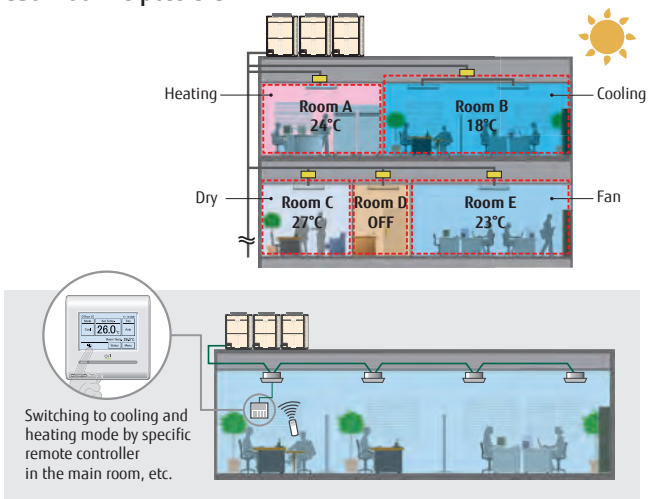
Auto changeover function

In Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.



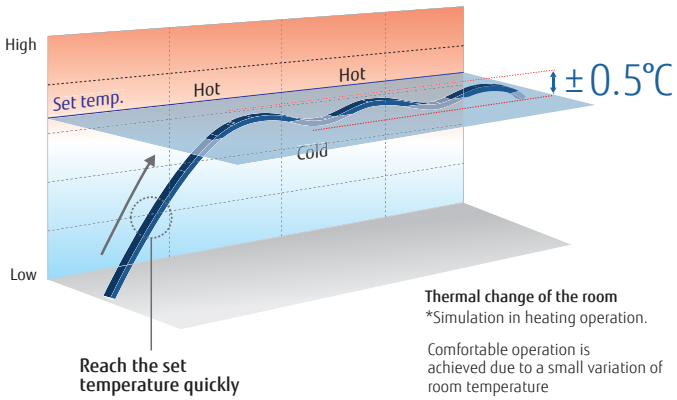
Auto changeover setting allows for the indoor unit to easily switch between cooling and heating regardless of the operation mode of other indoor units. This can be done via specific indoor unit with wired remote controller. This ensures comfortable operation all year round.

Automatic cooling/heating operation for each room is possible



Precision refrigerant flow control

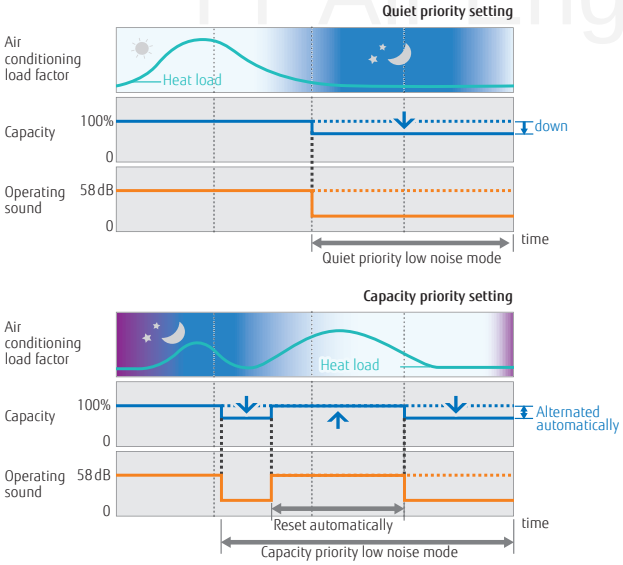
Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5°C.



Quiet operation

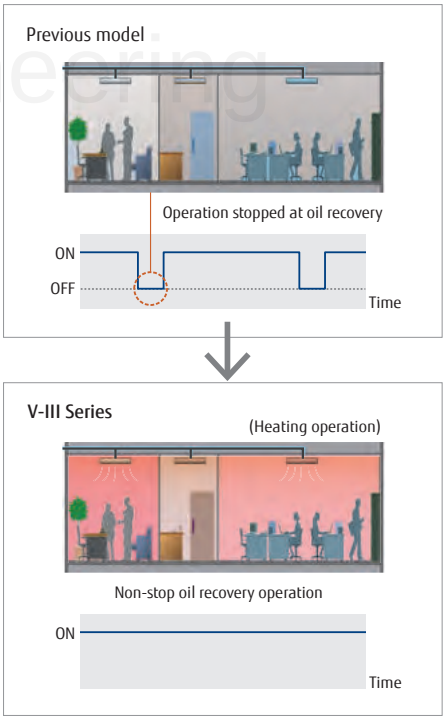
Quiet operation

Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.



Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Low sound level design

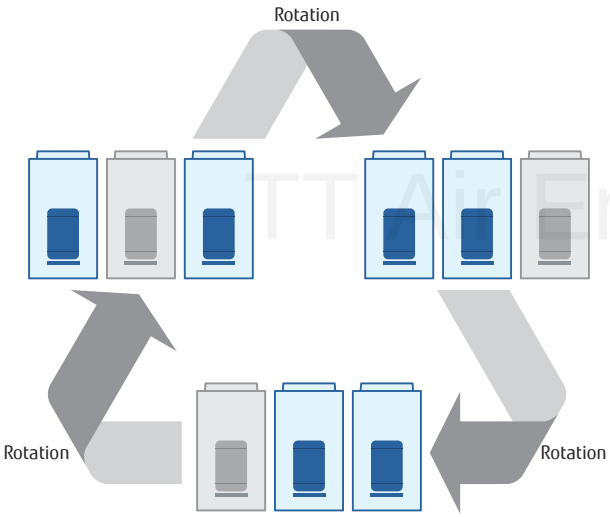
Small capacity indoor units respond to the demands of several applications.
These models will be able to offer greater audibility comfort by operating at super low sound levels. Especially, Wall mounted (EEV external) type is 19dB(A) when low mode heating operation.

Small capacity indoor unit

High Reliability

Outdoor unit rotational operation

The compressor starting order is rotated so that the running time is shared.

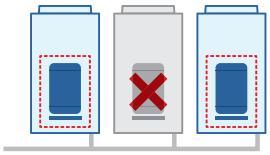


Note: Rotational operation is alternated by the start / stop timing of the compressor.

Backup operation

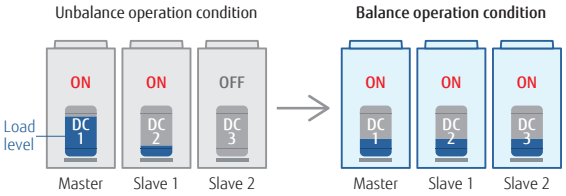
If one compressor fails, backup operation will be performed by the remaining compressors*.

*: Note: Backup operation may not be possible depending on the trouble state.



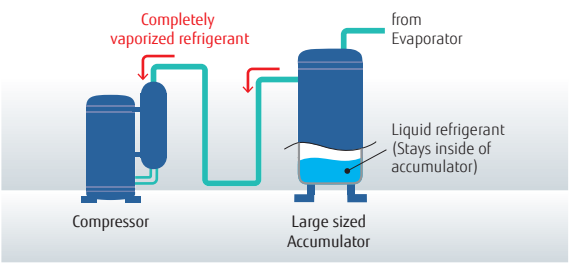
Advanced refrigerant control

Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.



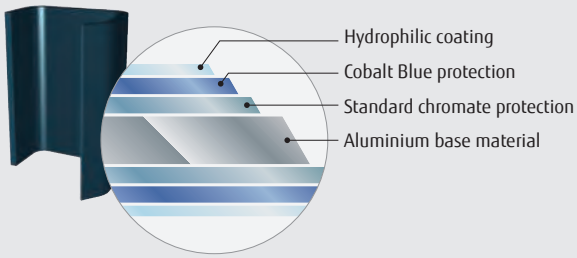
Liquid flow back protection

By adopting a large sized accumulator, not completely vaporised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.



Adoption of blue fin heat exchanger

Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.



Design Flexibility

Top class Compact design

Compact outdoor unit can be achieved at the top class in the industry by optimal airflow structure design. (Up to 18 HP)

AIRSTAGE™ J Series Compact Outdoor Unit

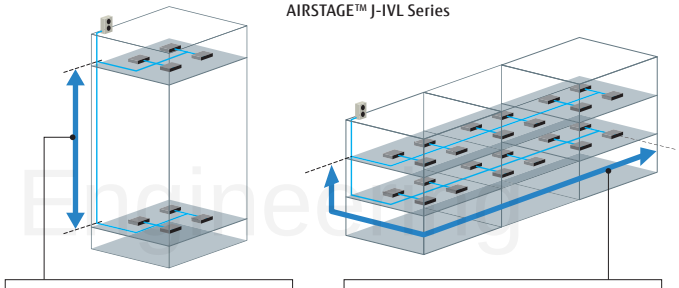
J-IVS | J-IV | J-IVL | J-IVL High capacity model

Long piping design

Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with high distance

(AIRSTAGE™ J-IVL Series)

AIRSTAGE™ J-IVL Series



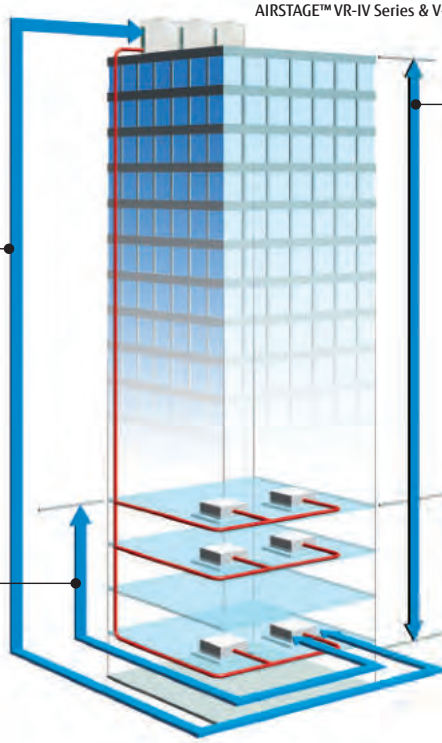
Height difference between indoor and indoor units **Maximum 50m**

Piping length from first separation tube to the farthest indoor unit **Maximum 90m**

Overall piping length Max. 1,000 m

World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.

AIRSTAGE™ VR-IV Series & V-III Series



Height difference between outdoor and indoor units **Maximum 50 m**

For the outdoor unit installed below the indoor units: 40 m max.

* Maximum 110 m when pressure sensor kit is applied and outdoor unit installed above the indoor units (V-III)

Actual pipe length **Maximum 165 m**

Pipe length from first separation tube to the farthest indoor unit **Maximum 90 m**[*1]

Height difference between indoor and indoor units **Maximum 15 m**

*1: V-III and VR-IV Series. The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 60 m or less.

High capacity connection

Series		Connectable indoor unit capacity range	Connectable indoor unit number
	AIRSTAGE™ J-IVL Series 14/16/18 HP Heat Pump type	50% to 150%*2	up to 42*4
	AIRSTAGE™ J-IVL Series 8/10/12 HP Heat Pump type	50% to 150%*2	up to 30*5
	AIRSTAGE™ J-IV Series Heat Pump type	50% to 150%*2	up to 14*6
	AIRSTAGE™ J-IVS Series Heat Pump type	50% to 130%*2	up to 13
	AIRSTAGE™ VR-IV Series Heat Recovery Modular type	25%*7 to 150%*2	up to 64
	AIRSTAGE™ V-III Series Heat Pump Modular type	50% to 150%*3	up to 64
	AIRSTAGE™ V-III Tropical Series Heat Pump Modular type	50% to 130%*2	up to 55

*2: Conditions of maximum connectable indoor unit capacity ratio is as the chart.

*3: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.

*4: J-IVL Series 18 HP model only.

*5: J-IVL Series 12 HP model only.

*6: J-IV Series 6 HP model only.

*7: For modular type, 25% to 49.9% operation in the entire system is available. (by one unit operation)

Designed for low refrigerant charge

Optimal design of indoor unit and outdoor unit reduces the refrigerant volume and special support is not required even when installing in a small room of about 15 m².

Various optional parts

- Intake fresh air with our Fresh Air Intake kit
- Comfortable temperature control with a remote sensor
- Operation by linking up to ventilation equipment and air handling unit with the DX-Kit


Fresh Air Intake kit


EEV unit


Control unit

Low ambient operation

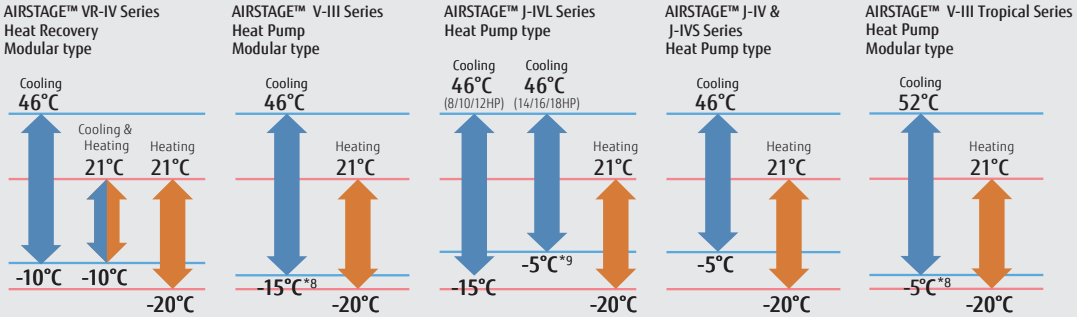
Refrigeration cycle technology allows cooling operation even at -15°C.

Wide operating range

Installation in extreme temperature conditions is possible due to an increase in operating range.

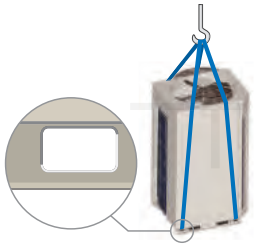
*8: Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

*9: Only when all indoor units are 5.6 kW or more in the system, the operating range is -15°C to 46°C.

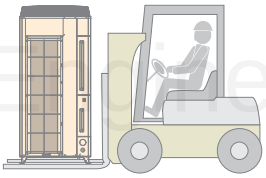


Easy Installation

Easily transported



Easily craned using lifting belt hooks
Design of outdoor unit allows for lifting straps to be used

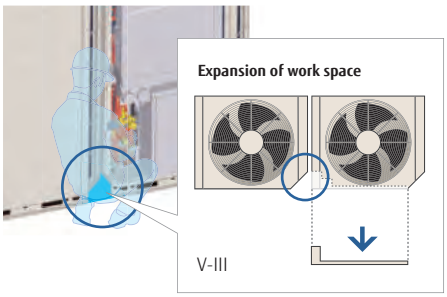


Transporting by forklift
Transport with forklift is possible.

Can be transported in a small lift

Easy access

By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design. For multiple installations, work is performed easily and efficiently even in a narrow space.



J-IVL

Reduced installation intervals by front access

Flexible piping connection

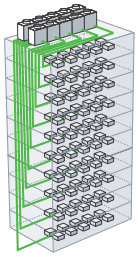
Piping and wiring are available to the front, left right and bottom.

V-III

J-IVL

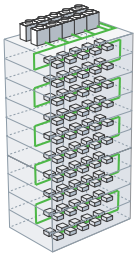
Simple wiring work

Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.



Parallel connection

or



Serial connection

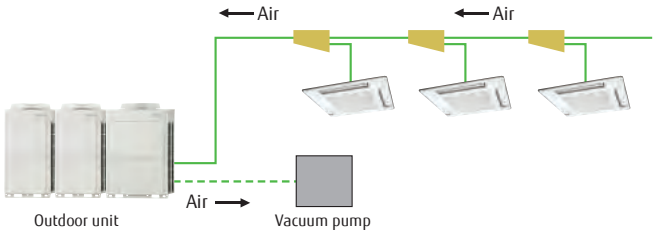
Up to maximum length

3,600 m

Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.

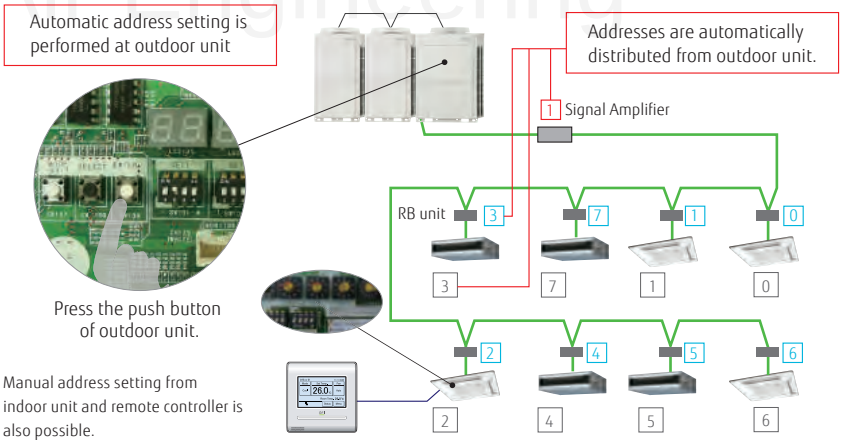
Easy evacuation - using vacuum mode function

The vacuum mode function enables all expansion valves of indoor units to be fully opened, making it easy to evacuate all the air inside pipe lines and indoor units.



Automatic address setting

The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB.



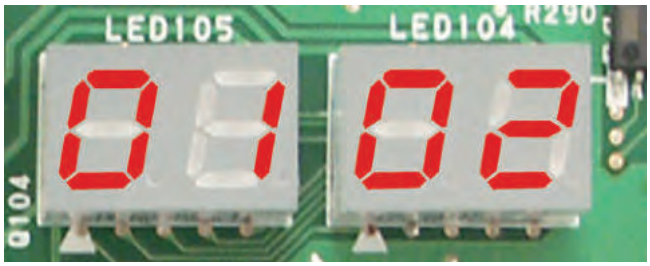
Easy commissioning by Service Tool

Service tools can be used to check the refrigerant temperature, pressure, and the operating status of the electronic expansion valve, making it easy to determine whether the units are connected properly.

Easy Service & Maintenance

Design for Easy Maintenance

7 segment LED is used to make it easy to check the details about the function setting status, refrigerant temperature, pressure, compressor operation time, and other factors for each model to make it easy to perform self-diagnostics.

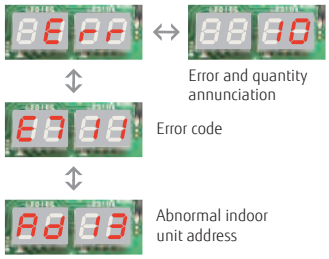


Easy to read 7-segment LED :

Confirm detailed operational and error status without using any specific equipment.

Error status can be checked easily by outdoor unit display

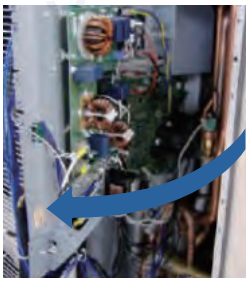
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit

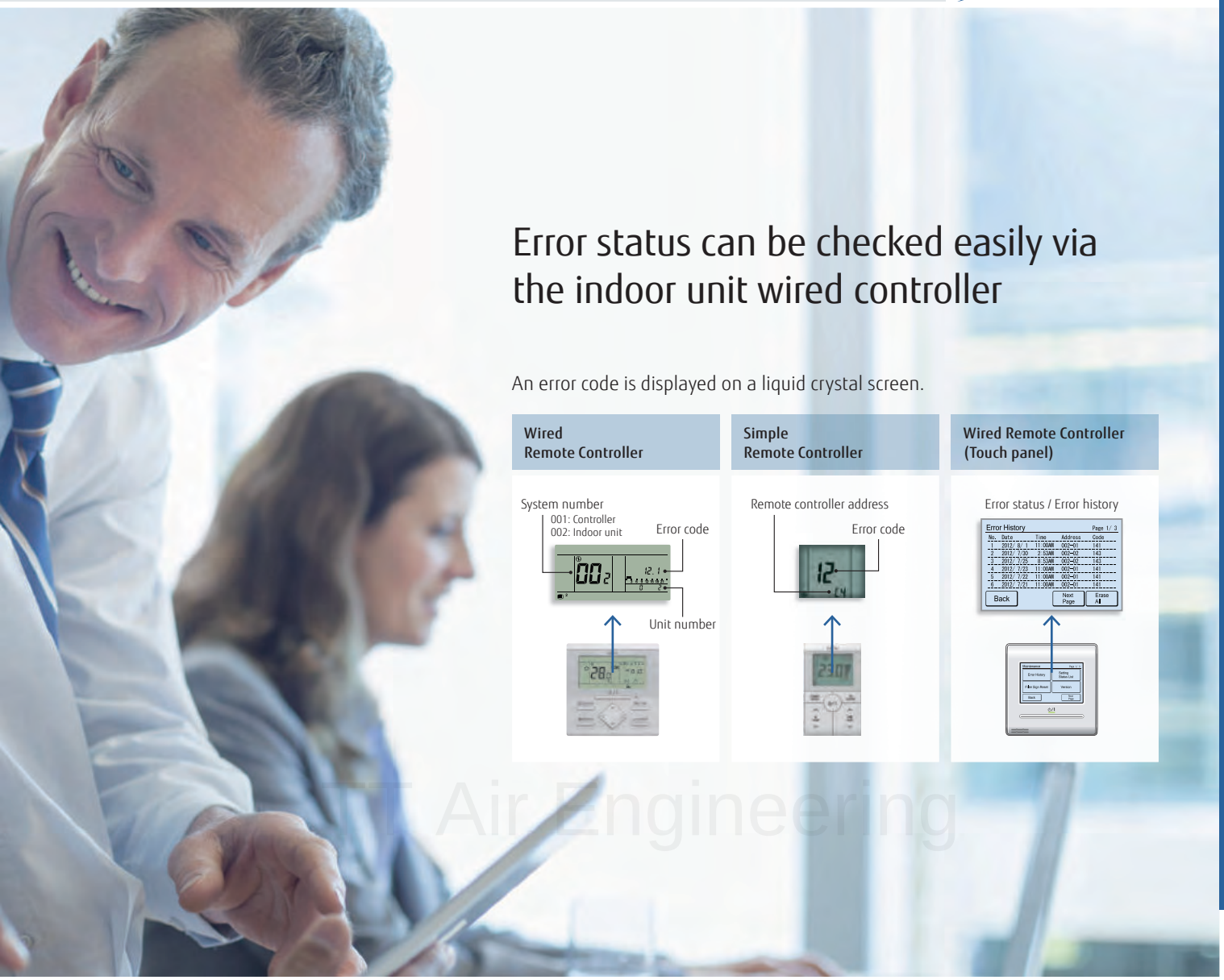


- Error status can be checked easily by outdoor unit display

Movable PCB panel

Easier for maintenance work behind the PCB





Error status can be checked easily via the indoor unit wired controller

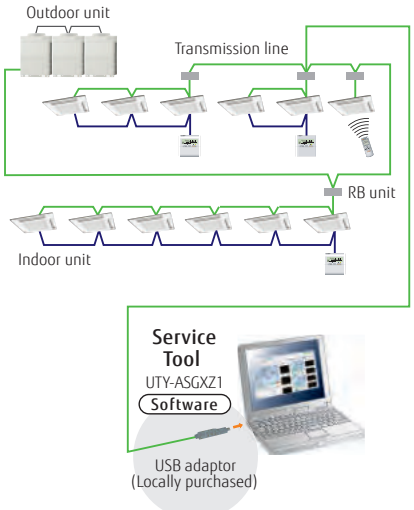
An error code is displayed on a liquid crystal screen.

Wired Remote Controller	Simple Remote Controller	Wired Remote Controller (Touch panel)
System number 001: Controller 002: Indoor unit Error code Unit number	Remote controller address Error code	Error status / Error history

Error diagnosis by Service Tool

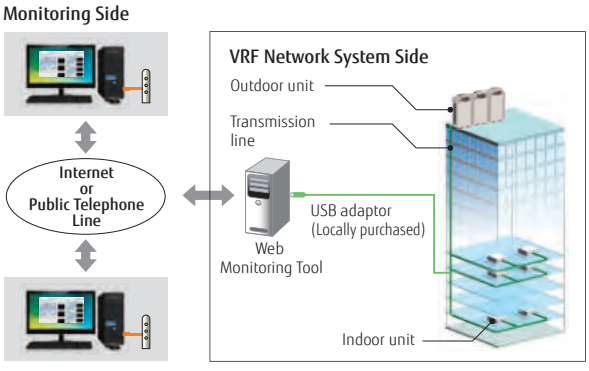
Connection to Service Tool

- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can also be recorded.



Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation.
The operating VRF network system in the building can be monitored real time over the Internet.



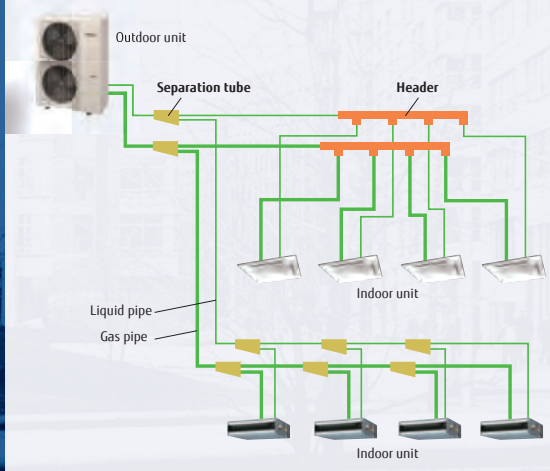
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVL

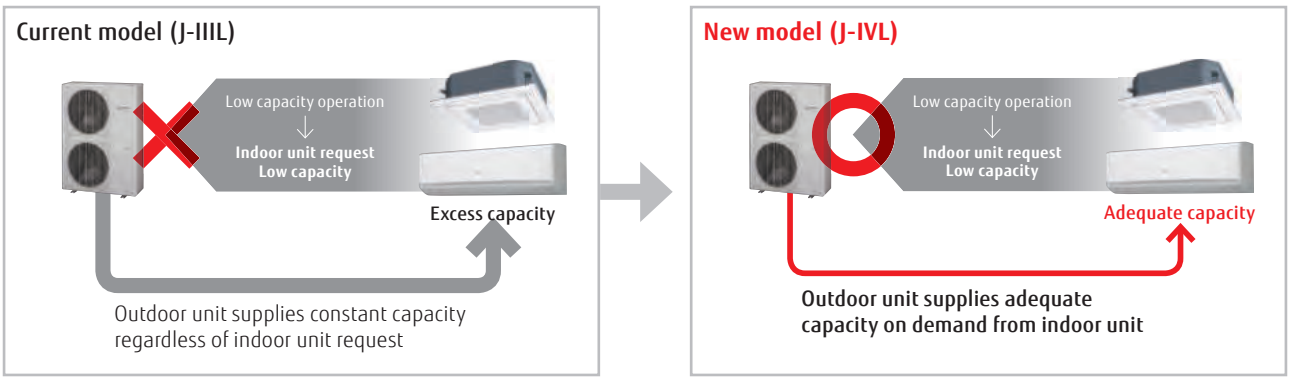
System configuration example

- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



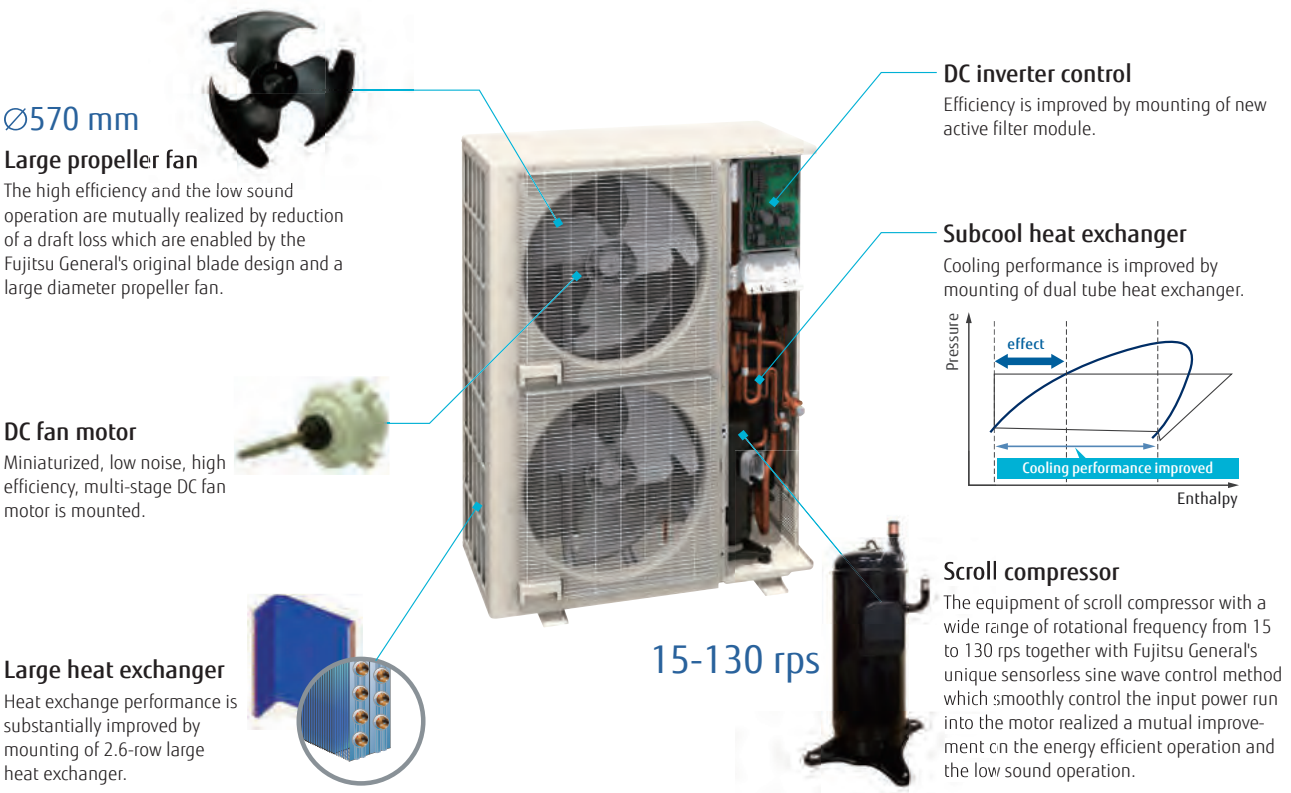
* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

External static pressure is available up to 60Pa for 14/16/18HP.
(30Pa for 8/10HP, 40Pa for 12HP)

* Capacities are slightly decreased for rated values during high static pressure operation.

Advanced high efficiency technology



Slim & Compact Design

Depth difference
-285 mm
J-IVL all models
Compared with current all models

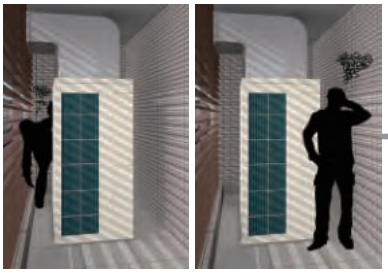
Space requirement
-45%!
Compared with
current 14/16/18 HP models

Weight
-58 kg!
Compared with
current 18 HP model

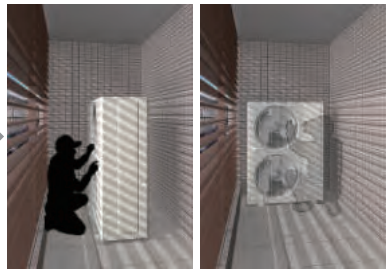
Height difference
-262 mm
Compared with current 8 HP model

Space requirement
-26%!
Compared with
current 8/10 HP models

Various Installation



AIRSTAGE™ V Series outdoor unit



AIRSTAGE™ J Series outdoor unit

In house installation

Low noise in consideration for the nearby residents

This model is front air discharge type and about 1000 mm wide, so flexible installation is possible even at narrow in house space.

AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor unit

Narrow space behind building

Space saving

Due to compact and thin model, direct ground installation or wall mounted installation is possible even at narrow off-street.

AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor unit

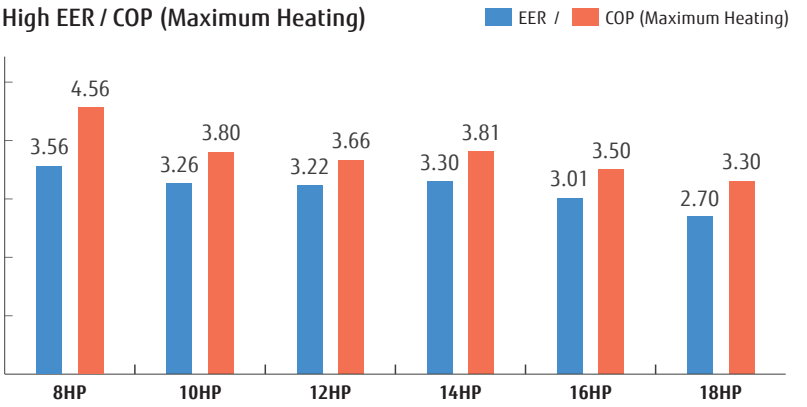
Installation at back street of building

Flexible installation

This model is front air discharge type and slim & low body, so installation space is compact. Building windows are not blocked and space saving multiple units installation is possible.

Efficiency in actual operation

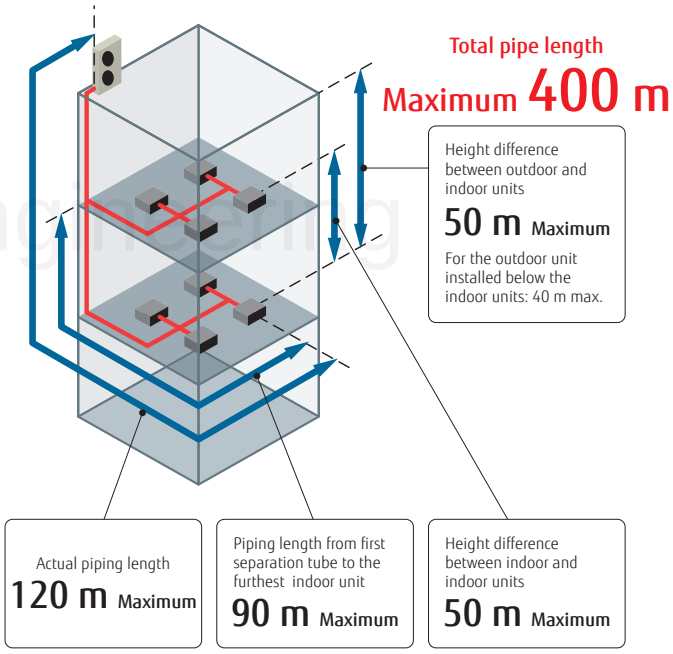
Top class high EER/COP(Max. Heating) is achieved for all models by large heat exchanger, high efficient Scroll compressor, and our own technologies.



* These specifications are determined by cassette combination.

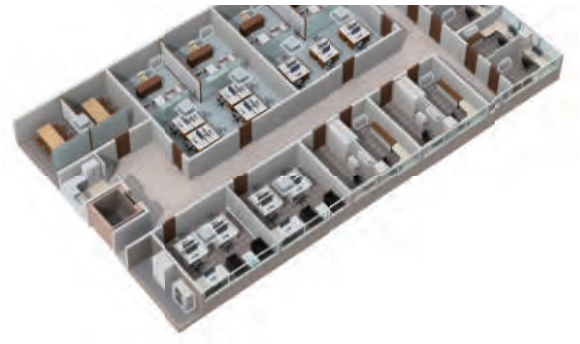
Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.



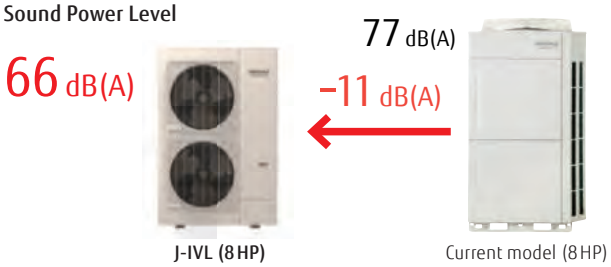
Up to 42 indoor units* can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 42 units. *: 18 HP model



Top Class Low Operating Sound

Top class low operating sound is achieved. Highly suited for densely populated areas thanks to their low operating sound.



8,10,12 HP: AJY072LELBH / AJY090LELBH / AJY108LELBH
14,16,18 HP: AJY126LELBH / AJY144LELBH / AJY162LELBH

8, 10, 12 HP　　14, 16, 18 HP

Specifications

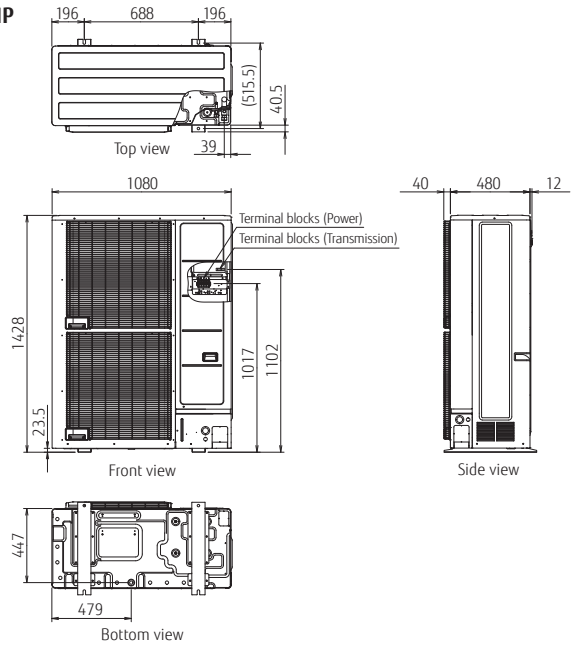
Rating Capacity range		HP	8	10	12	14	16	18
Model name			AJY072LELBH	AJY090LELBH	AJY108LELBH	AJY126LELBH	AJY144LELBH	AJY162LELBH
Maximum Connectable Indoor Unit			1-20	1-25	1-30	1-36	1-40	1-42
Power source			3 phase, ~400V, 50Hz					
Capacity	Cooling	BTU/h	76,400	95,500	114,000	136,000	154,000	171,000
	Nominal Heating		76,400	95,500	114,000	136,000	154,000	171,000
	Max. Heating		85,300	107,000	127,000	153,000	170,600	187,000
Input power	Cooling	kW	6.30	8.59	10.42	12.12	14.96	18.52
	Nominal Heating		4.65	6.61	8.18	9.71	11.81	13.66
	Max. Heating		5.45	8.29	10.25	11.80	14.29	16.66
EER	Cooling	W/W	3.56	3.26	3.22	3.30	3.01	2.70
COP	Nominal Heating		4.82	4.24	4.10	4.12	3.81	3.66
	Max. Heating		4.56	3.80	3.66	3.81	3.50	3.30
Airflow rate		m^3/h	8,400	9,000	11,000	13,000	14,000	14,800/15,300
Sound pressure level / Power level	Cooling	dB(A)	52/66	54/69	59/73	62/75	64/77	65/79
	Heating		54/—	57/—	61/—	63/—	65/—	65/68
Net Dimensions	Height	mm	1,428	1,428	1,428	1,638	1,638	1,638
	Width		1,080	1,080	1,080	1,080	1,080	1,080
	Depth		480	480	480	480	480	480
Weight		kg	170	177	178	213	213	217
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)	11.8 (24.6)
Connection pipe diameter	Liquid	mm	9.52	9.52	12.70	12.70	12.70	12.70
	Gas		19.05	22.20	28.58	28.58	28.58	28.58
Total pipe length		m	400	400	400	400	400	400
Max. height difference			50/40 (Outdoor unit: Upper/Lower)					
Operating Range	Cooling	˚C	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*	-5 to 46*
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
* The cooling operating range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.
* These specifications are determined by cassette combination.

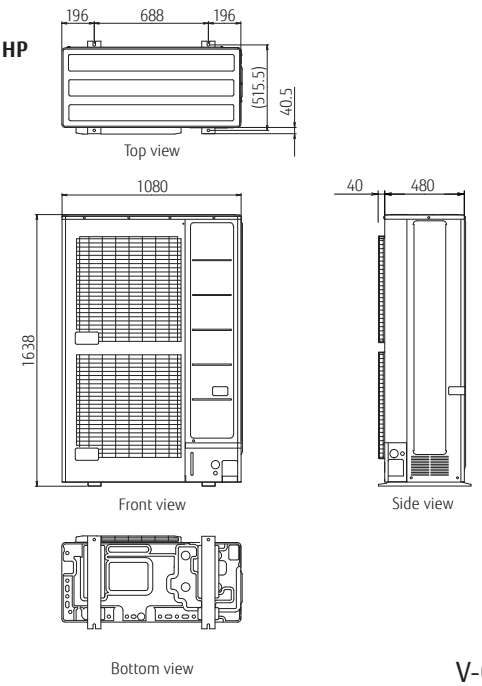
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16, 18 HP



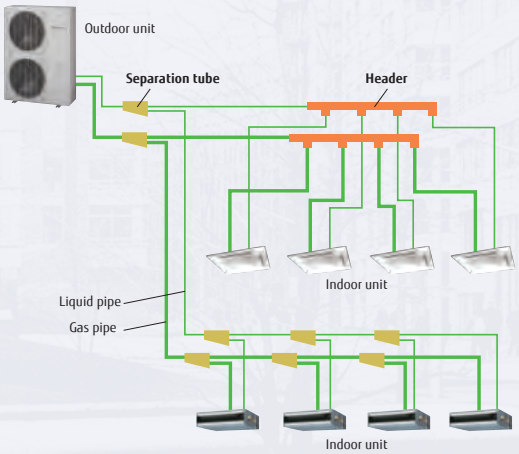
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IV

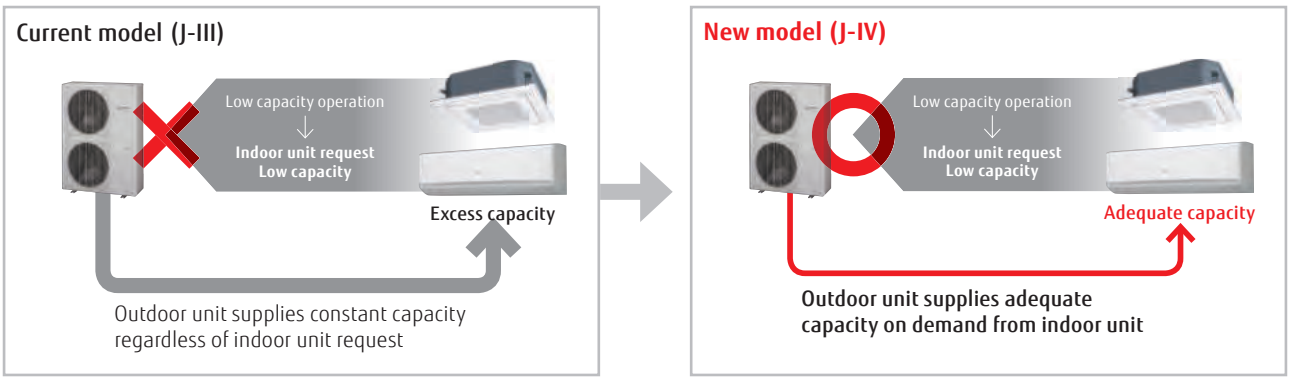
System configuration example

- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

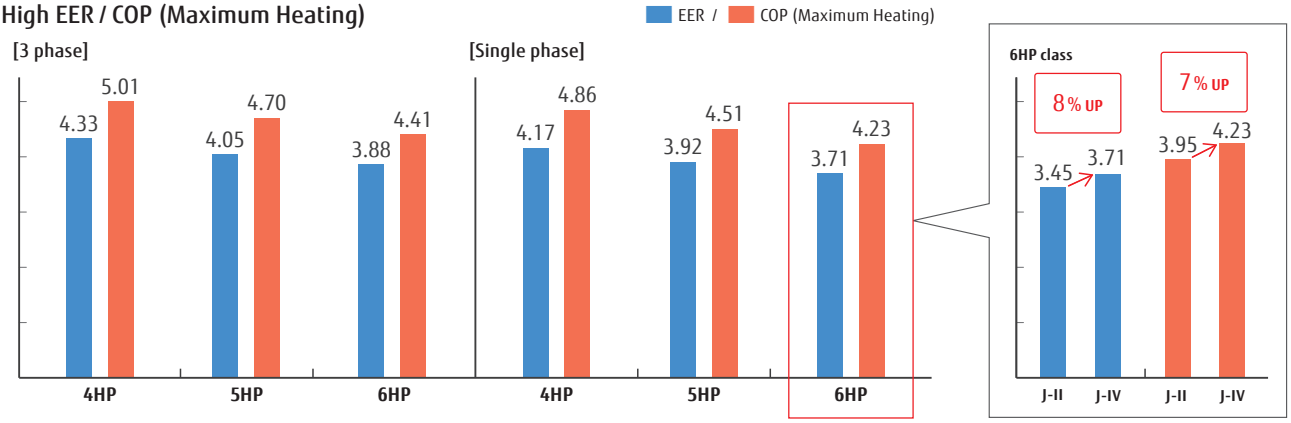
External static pressure is available up to 30Pa for 4/5/6HP.

Advanced high efficiency technology

Efficiency in actual operation

Top class high COP (Max. Heating) is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.

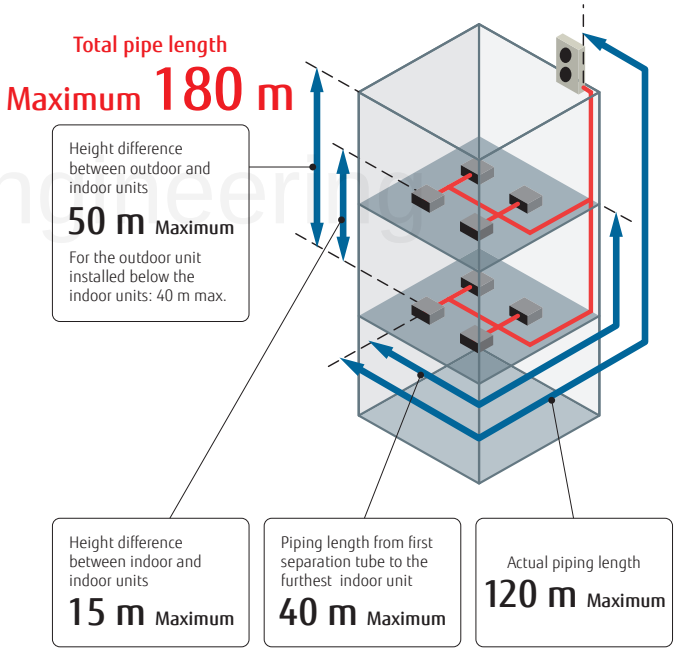
High EER / COP (Maximum Heating)



* These specifications are determined by cassette combination.

Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.



Up to 14 units* can be connected

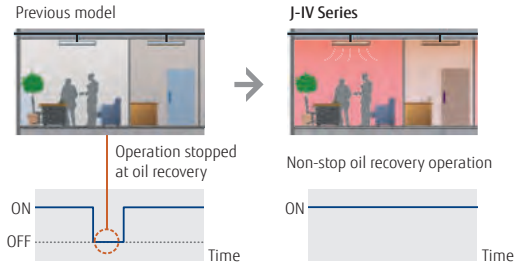
Up to 14 units* can be connected The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 14 units.

*: 6 HP model

Model	Current model (J-III)			New model (J-IV)		
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable indoor unit	1-9	1-10	1-13	1-11	1-12	1-14

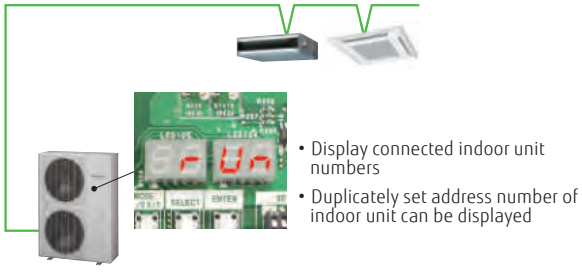
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



4,5,6HP : AJY040LBLBH / AJY045LBLBH / AJY054LBLBH
AJY040LELBH [3 phase] / AJY045LELBH [3 phase] / AJY054LELBH [3 phasee]

Specifications

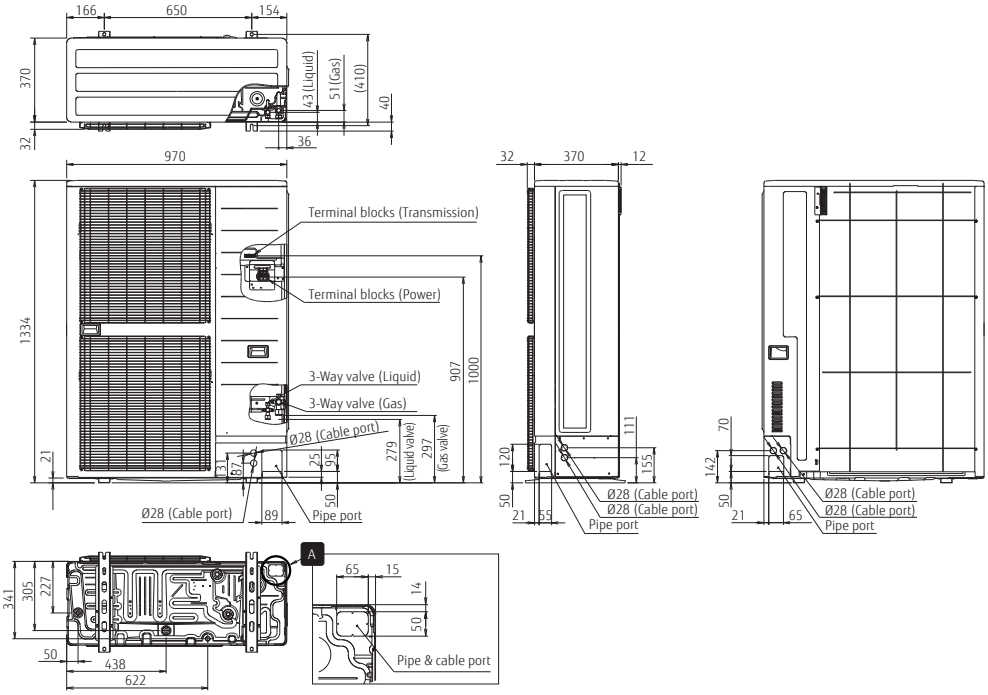
Rating Capacity range		HP	4	5	6	4	5	6
Model name			AJY040LBLBH	AJY045LBLBH	AJY054LBLBH	AJY040LELBH	AJY045LELBH	AJY054LELBH
Maximum Connectable Indoor Unit			1-11	1-12	1-14	1-11	1-12	1-14
Power source			Single phase, ~230V, 50Hz			3 phase, ~400V, 50Hz		
Capacity	Cooling	BTU/h	41,200	47,800	52,000	41,200	47,800	52,000
	Heating		46,400	54,500	61,400	46,400	54,500	61,400
Input power	Cooling	kW	2.90	3.57	4.18	2.79	3.46	3.99
	Nominal Heating		2.39	2.97	3.50	2.32	2.86	3.36
	Max. Heating		2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling	W/W	4.17	3.92	3.71	4.33	4.05	3.88
COP	Nominal Heating		5.06	4.71	4.43	5.21	4.90	4.61
	Max. Heating		4.86	4.51	4.23	5.01	4.70	4.41
Airflow rate		m^3/h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB(A)	50 / 65	51 / 65	53 / 66	50 / 65	51 / 65	53 / 66
	Heating		52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334
	Width		970	970	970	970	970	970
	Depth		370	370	370	370	370	370
Weight		kg	117	117	119	118	119	119
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		15.88	15.88	19.05	15.88	15.88	19.05
Total pipe length		m	180	180	180	180	180	180
Max. height difference			50/40 (Outdoor unit: Upper/Lower)			50/40 (Outdoor unit: Upper/Lower)		
Operating Range	Cooling	˚C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
The protective function may work when using it outside the operating range.

* These specifications are determined by cassette combination.

Dimensions

(Unit : mm)



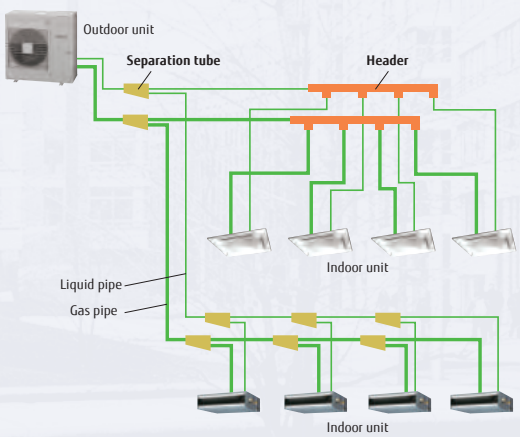
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVS

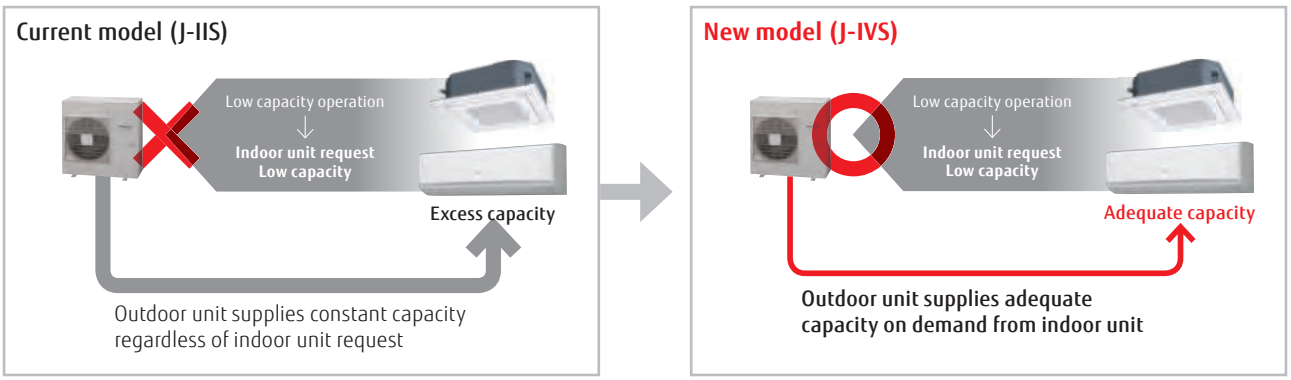
System configuration example

- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

External static pressure is available up to 25Pa for 4/5/6HP.

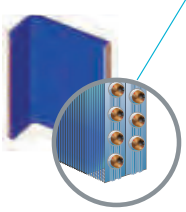
Advanced high efficiency technology

Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.

DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



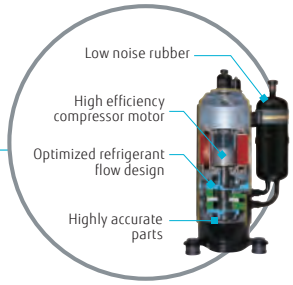
Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

High heat transfer copper tube (Improved lead angle)

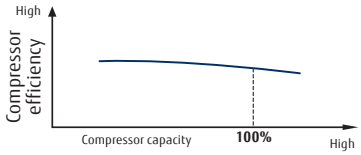
DC inverter control

Efficiency is improved by mounting of new active filter module.



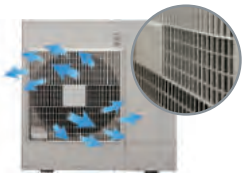
Compact and high performance DC twin rotary compressor

Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

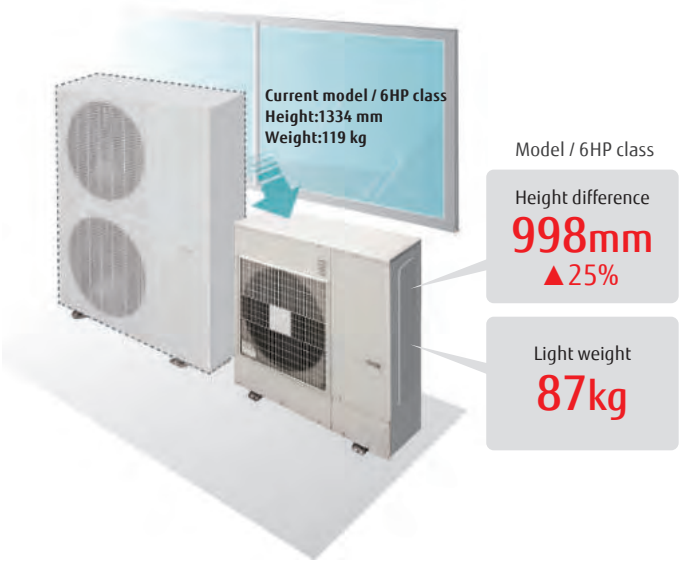


Smooth airflow grille

This grille was aerodynamically designed for good efficiency with little blow loss.



It Can be Easily Carried and Installed



Small and light weight outdoor unit

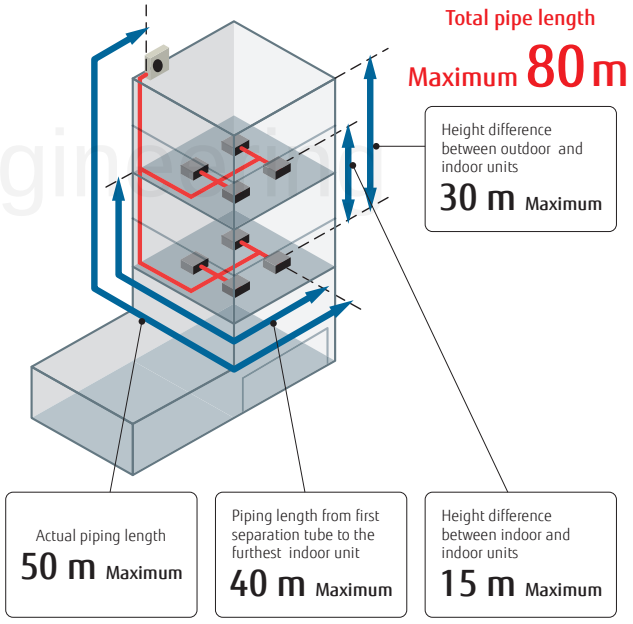
This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces

Low sound level design

Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.

Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up possibilities in system design.



Up to 13 units* can be connected

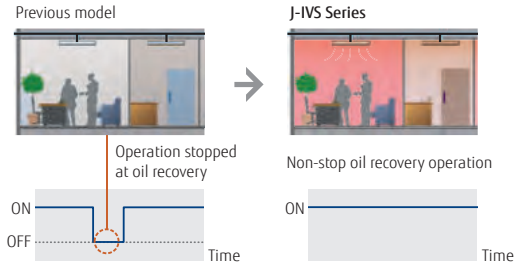
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 13 units.

*: 6 HP model

Model	Current model (J-IIS)			New model (J-IVS)		
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable indoor unit	1-7	1-8	1-8	1-11	1-12	1-13

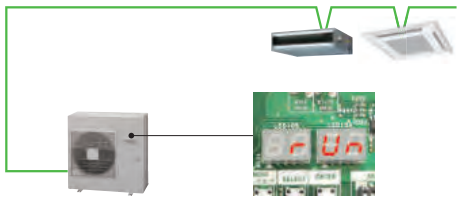
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

4,5,6HP : AJY040LCLBH / AJY045LCLBH / AJY054LCLBH

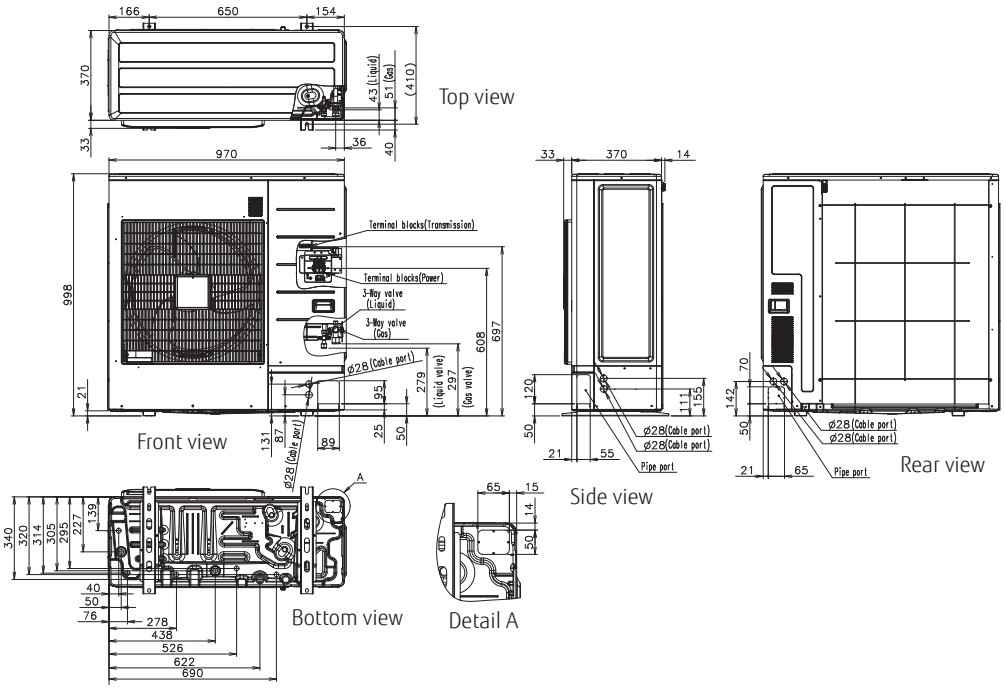
Specifications

Rating Capacity range		HP	4	5	6
Model name			AJY040LCLBH	AJY045LCLBH	AJY054LCLBH
Maximum Connectable Indoor Unit			7	8	8
Power source			Single phase, ~230V, 50Hz		
Capacity	Cooling	BTU/h	41,200	47,800	51,500
	Heating		46,400	54,500	56,200
Input power	Cooling	kW	3.44	4.43	5.03
	Nominal Heating		2.55	3.11	3.52
	Max. Heating		3.09	3.93	4.11
EER	Cooling	W/W	3.52	3.16	3.00
COP	Nominal Heating		4.74	4.51	4.30
	Max. Heating		4.40	4.07	4.01
Airflow rate		m^3/h	4,040	4,200	4,200
Sound pressure level / Power level	Cooling	dB(A)	51 / 67	53 / 69	54 / 70
	Heating		54 / 68	55 / 69	56 / 70
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas		15.88	15.88	15.88
Total pipe length		m	80	80	80
Max. height difference			30	30	30
Operating Range	Cooling	˚C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
The protective function may work when using it outside the operating range.
* These specifications are determined by cassette combination.

Dimensions

(Unit : mm)



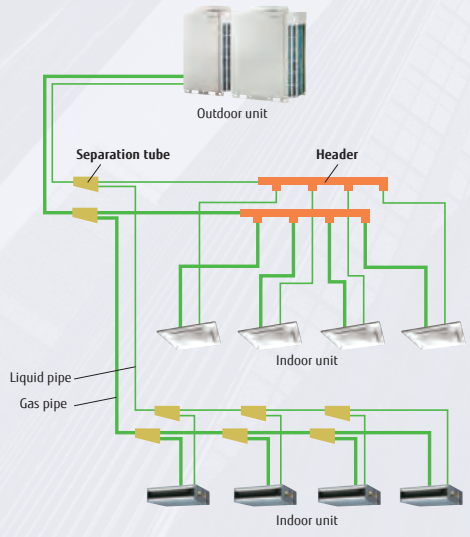
Heat Pump

Modular Type

AIRSTAGE™ V-III TROPICAL SPEC

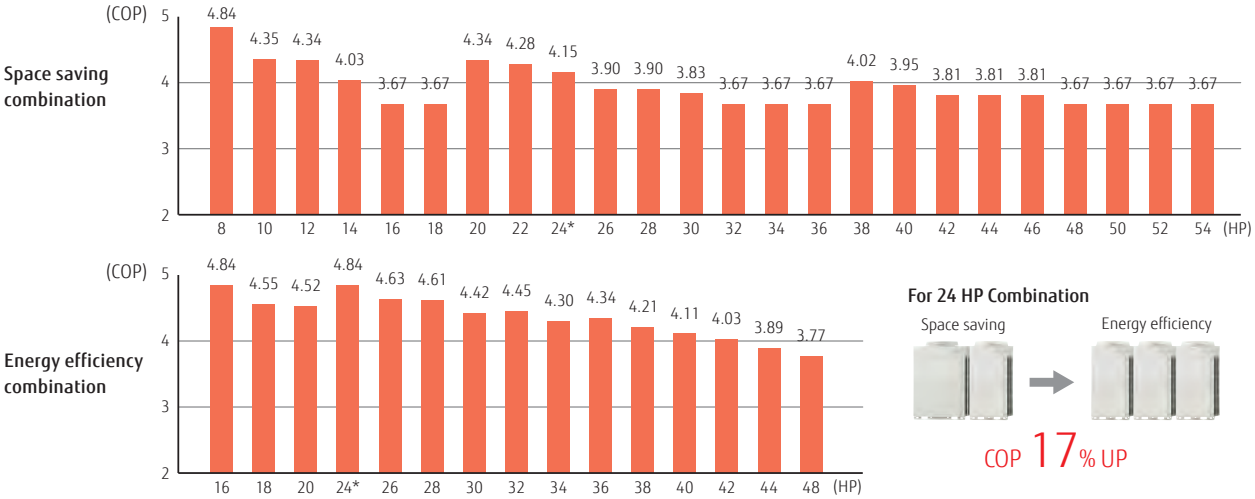
System configuration example

- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
- Connection of multiple indoor units using separation tubes and headers.



Efficiency in actual operation

Top class high COP(Max. Heating) is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.



For 24 HP Combination

COP 17% UP

* These specifications are determined by ducted combination.

Heavy anti-corrosion treatment design

Anti-corrosion coated casing parts

Satisfied the JRA* heavy anti-corrosion regulation(4002)
*JRA: Japan Refrigeration Association

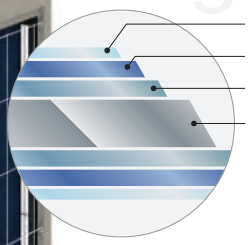
PCB and Electronic components

High ambient temperature compatible electric components. Added silicon coating on all PCB circuits for anti-corrosion.

High ambient & corrosion compatible

PCB components
Refrigerant cycle component

Blue fin heat exchanger



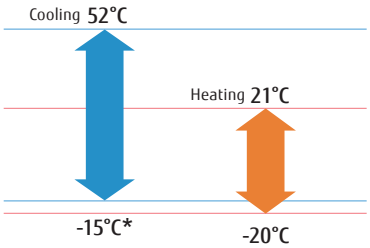
All screws and hinges

Added zinc chrome acid film treatment.

High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature by adopting DC fan motor, large propeller fan and large heat exchanger.

Cooling operation
up to 52°C
ambient



*: When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.

Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations

22.4kW (8HP)  AJY072LNTCH UNIT : AJY072LNTCH	28.0kW (10HP)  AJY090LNTCH UNIT : AJY090LNTCH	33.5kW (12HP)  AJY108LNTCH UNIT : AJY108LNTCH	40.0kW (14HP)  AJY126LNTCH UNIT : AJY126LNTCH	45.0kW (16HP)  AJY144LNTCH UNIT : AJY144LNTCH
50.0kW (18HP)  AJY162LNTCH UNIT : AJY162LNTCH	56.0kW (20HP)  AJY180LNTCH UNIT : AJY090/090LNTCH	62.4kW (22HP)  AJY198LNTCH UNIT : AJY126/072LNTCH	68.0kW (24HP)  AJY216LNTCH UNIT : AJY126/090LNTCH	73.0kW (26HP)  AJY234LNTCH UNIT : AJY144/090LNTCH
78.0kW (28HP)  AJY252LNTCH UNIT : AJY162/090LNTCH	85.0kW (30HP)  AJY270LNTCH UNIT : AJY144/126LNTCH	90.0kW (32HP)  AJY288LNTCH UNIT : AJY144/144LNTCH	95.0kW (34HP)  AJY306LNTCH UNIT : AJY162/144LNTCH	100.0kW (36HP)  AJY324LNTCH UNIT : AJY162/162LNTCH
106.0kW (38HP)  AJY342LNTCH UNIT : AJY162/090/090LNTCH	113.0kW (40HP)  AJY360LNTCH UNIT : AJY144/126/090LNTCH	118.0kW (42HP)  AJY378LNTCH UNIT : AJY144/144/090LNTCH	123.0kW (44HP)  AJY396LNTCH UNIT : AJY162/144/090LNTCH	128.0kW (46HP)  AJY414LNTCH UNIT : AJY162/162/090LNTCH
135.0kW (48HP)  AJY432LNTCH UNIT : AJY144/144/144LNTCH	140.0kW (50HP)  AJY450LNTCH UNIT : AJY162/144/144LNTCH	145.0kW (52HP)  AJY468LNTCH UNIT : AJY162/162/144LNTCH	150.0kW (54HP)  AJY486LNTCH UNIT : AJY162/162/162LNTCH	

Energy efficiency Combinations

44.8kW (16HP)  AJY144LNTCHH UNIT : AJY072/072LNTCH	50.4kW (18HP)  AJY162LNTCHH UNIT : AJY090/072LNTCH	55.9kW (20HP)  AJY180LNTCHH UNIT : AJY108/072LNTCH	67.2kW (24HP)  AJY216LNTCHH UNIT : AJY072/072/072LNTCH	72.8kW (26HP)  AJY234LNTCHH UNIT : AJY090/072/072LNTCH
78.3kW (28HP)  AJY252LNTCHH UNIT : AJY108/072/072LNTCH	84.8kW (30HP)  AJY270LNTCHH UNIT : AJY126/072/072LNTCH	89.4kW (32HP)  AJY288LNTCHH UNIT : AJY108/108/072LNTCH	95.9kW (34HP)  AJY306LNTCHH UNIT : AJY126/108/072LNTCH	100.5kW (36HP)  AJY324LNTCHH UNIT : AJY108/108/108LNTCH
107.0kW (38HP)  AJY342LNTCHH UNIT : AJY126/108/108LNTCH	113.5kW (40HP)  AJY360LNTCHH UNIT : AJY126/126/108LNTCH	120.0kW (42HP)  AJY378LNTCHH UNIT : AJY126/126/126LNTCH	125.0kW (44HP)  AJY396LNTCHH UNIT : AJY144/126/126LNTCH	130.0kW (46HP)  AJY414LNTCHH UNIT : AJY144/144/126LNTCH

8,10HP : AJY072LNTCH / AJY090LNTCH
12,14,16,18HP : AJY108LNTCH / AJY126LNTCH / AJY144LNTCH / AJY162LNTCH

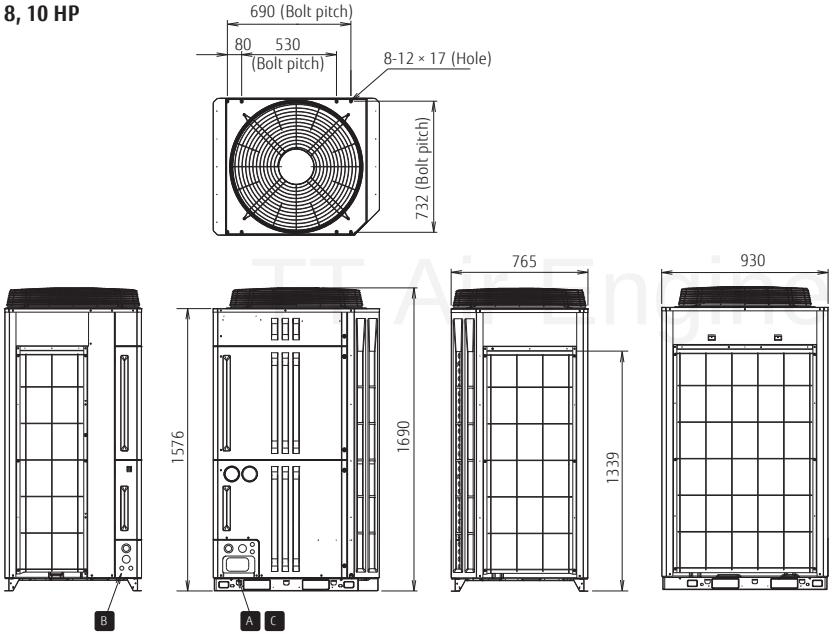
8, 10 HP

12, 14, 16, 18 HP

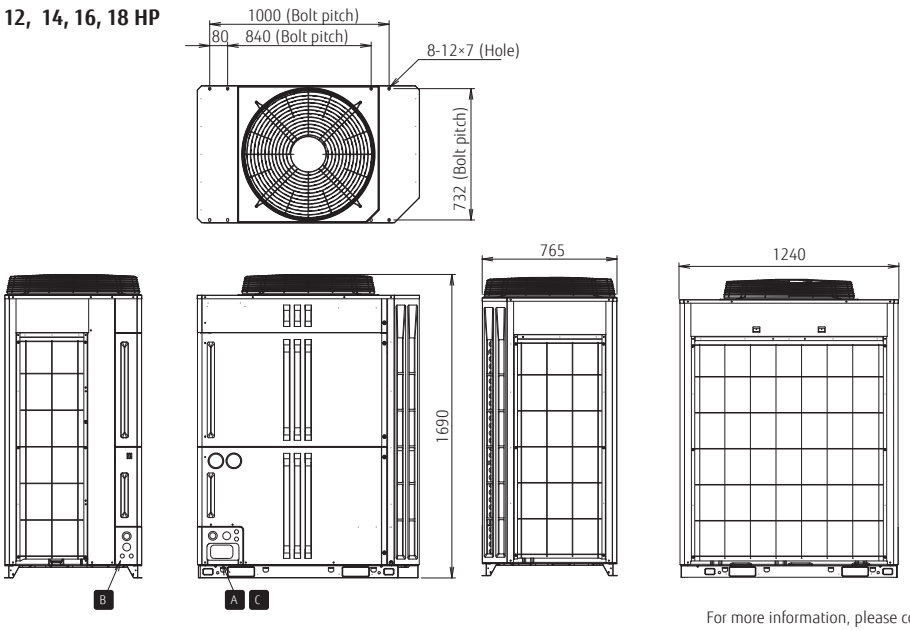
Dimensions

(Unit : mm)

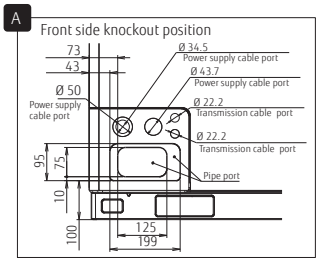
8, 10 HP



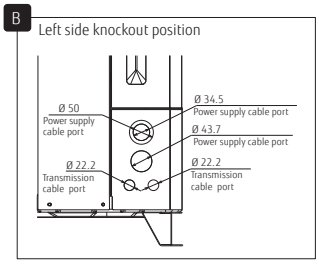
12, 14, 16, 18 HP



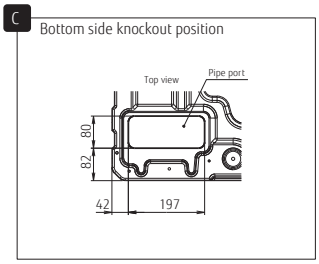
A Front side knockout position



B Left side knockout position



C Bottom side knockout position



For more information, please contact Fujitsu General Limited. (www.fujitsu-general.com)

Outdoor units specifications

Space Saving Combination

Rating Capacity range			HP	8	10	12	14	16	18	20	22	24	26	28
Set Model name				AJY072LNTCH	AJY090LNTCH	AJY108LNTCH	AJY126LNTCH	AJY144LNTCH	AJY162LNTCH	AJY180LNTCH	AJY198LNTCH	AJY216LNTCH	AJY234LNTCH	AJY252LNTCH
Unit 1 Unit 2 Unit 3				AJY072LNTCH	AJY090LNTCH	AJY108LNTCH	AJY126LNTCH	AJY144LNTCH	AJY162LNTCH	AJY090LNTCH AJY090LNTCH	AJY126LNTCH AJY072LNTCH	AJY126LNTCH AJY090LNTCH	AJY144LNTCH AJY090LNTCH	AJY162LNTCH AJY090LNTCH
Maximum Connectable Indoor Unit				13	16	19	23	26	29	33	36	40	43	46
Indoor unit connectable capacity		Cooling	kW	11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4
Power source				3-phase 4 wire, 400 V, 50Hz										
T1 condition	Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0
		Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5
		Cooling	Btu/h	76400	95500	114000	136000	154000	171000	191000	212400	231500	249500	266500
		Heating		85300	107500	128000	153500	170600	170600	215000	238800	261000	278100	278100
	Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
		Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88
	Current	Cooling	A	9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-
		Heating		9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-
	EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27
	COP	Heating		4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
	EER	Cooling	Btu/h/W	14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2
	COP	Heating		16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.3
T2 condition	Capacity	Cooling	kW	23.39	29.22	34.88	41.62	47.16	52.17	58.32	65.04	70.90	76.41	81.48
			Btu/h	79800	99700	119000	142000	160900	178000	199000	221900	241900	260700	278000
	Input power		kW	5.52	7.74	9.54	11.67	13.86	16.64	15.47	17.19	19.40	21.59	24.37
Power factor			%	90	92	92	92	92	93	-	-	-	-	-
Airflow rate		High	m^3/h	11100	11100	13000	13000	13700	13700	11100×2	13000+11100	13000+11100	13700+11100	13700+11100
Sound pressure level / Power level		Cooling	dB(A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85
		Heating		58 / 80	59 / 81	60 / 83	62 / 84	64 / 86	64 / 86	62 / 84	63 / 85	64 / 86	65 / 87	65 / 87
External static pressure (Max)			Pa	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output			kW	7.5	7.5	11	11	11	11	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions		Height	mm	1690	1690	1690	1690	1690	1690	1690×2	1690×2	1690×2	1690×2	1690×2
		Width		930	930	1240	1240	1240	1240	930×2	1240+930	1240+930	1240+930	1240+930
		Depth		765	765	765	765	765	765	765×2	765×2	765×2	765×2	765×2
Weight			kg	255	255	279	279	279	279	255×2	279+255	279+255	279+255	279+255
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)
Connection pipe diameter	Liquid		mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Gas			22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling		°CDB	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rating Capacity range			HP	16	18	20	24	26	28	30
Set Model name				AJY144LNTCHH	AJY162LNTCHH	AJY180LNTCHH	AJY216LNTCHH	AJY234LNTCHH	AJY252LNTCHH	AJY270LNTCHH
Unit 1 Unit 2 Unit 3				AJY072LNTCH AJY072LNTCH	AJY090LNTCH AJY072LNTCH	AJY108LNTCH AJY072LNTCH	AJY072LNTCH AJY072LNTCH AJY072LNTCH	AJY090LNTCH AJY072LNTCH AJY072LNTCH	AJY108LNTCH AJY072LNTCH AJY072LNTCH	AJY126LNTCH AJY072LNTCH AJY072LNTCH
Maximum Connectable Indoor Unit				26	29	33	39	43	46	50
Indoor unit connectable capacity		Cooling	kW	22.4-58.2	25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2
Power source				3N ~ 400V, 50/60Hz						
T1 condition	Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8
		Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0
		Cooling	Btu/h	152800	171900	190700	229200	248300	267100	289300
		Heating		170600	192800	213300	255900	278100	298600	324100
	Input power	Cooling	kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36
		Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51
	Current	Cooling	A	-	-	-	-	-	-	-
		Heating		-	-	-	-	-	-	-
	EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97
	COP	Heating		4.84	4.55	4.52	4.84	4.63	4.61	4.42
	EER	Cooling	Btu/h/W	14.7	13.8	13.5	14.7	14.0	13.8	13.5
	COP	Heating		16.5	15.5	15.4	16.5	15.8	15.7	15.1
T2 condition	Capacity	Cooling	kW	46.78	52.64	58.32	70.19	75.91	81.77	88.51
			Btu/h	159600	179600	199000	239500	259000	279000	302000
	Input power		kW	11.67	14.02	15.96	17.51	19.87	21.8	24.05
Power factor			%	-	-	-	-	-	-	-
Airflow rate		High	m^3/h	11100×2	11100×2	13000+11100	11100×3	11100×3	13000+11100×2	13000+11100×2
Sound pressure level / Power level		Cooling	dB(A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84
		Heating		61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64 / 86	65 / 87
External static pressure (Max)			Pa	82	82	82	82	82	82	82
Compressor motor output			kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions		Height	mm	1690×2	1690×2	1690×2	1690×3	1690×3	1690×3	1690×3
		Width		930×2	930×2	1240+930	930×3	930×3	1240+930×2	1240+930×2
		Depth		765×2	765×2	765×2	765×3	765×3	765×3	765×3
Weight			kg	255×2	255×2	279+255	255×3	255×3	279+255×2	279+255×2
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	11.7×2 (24.4×2)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.7×3 (24.4×3)	11.7×3 (24.4×3)	11.8+11.7×2 (24.6+24.4×2)	11.8+11.7×2 (24.6+24.4×2)
Connection pipe diameter	Liquid		mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05
	Gas			28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling		°CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB
Cooling(T2): Indoor temperature of 27°CDB / 19.5°CWB, and outdoor temperature of 35°CDB / 24°CWB
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5m. Height difference between outdoor and indoor unit: 0m.

30	32	34	36	38	40	42	44	46	48	50	52	54
												
AJY270LNTCH	**AJY288LNTCH**	**AJY306LNTCH**	**AJY324LNTCH**	**AJY342LNTCH**	**AJY360LNTCH**	**AJY378LNTCH**	**AJY396LNTCH**	**AJY414LNTCH**	**AJY432LNTCH**	**AJY450LNTCH**	**AJY468LNTCH**	**AJY486LNTCH**
AJY144LNTCH AJY126LNTCH	AJY144LNTCH AJY144LNTCH	AJY162LNTCH AJY144LNTCH	AJY162LNTCH AJY162LNTCH	AJY162LNTCH AJY090LNTCH AJY090LNTCH	AJY144LNTCH AJY126LNTCH AJY090LNTCH	AJY144LNTCH AJY144LNTCH AJY090LNTCH	AJY162LNTCH AJY144LNTCH AJY090LNTCH	AJY162LNTCH AJY162LNTCH AJY090LNTCH	AJY144LNTCH AJY144LNTCH AJY144LNTCH	AJY162LNTCH AJY144LNTCH AJY144LNTCH	AJY162LNTCH AJY162LNTCH AJY144LNTCH	AJY162LNTCH AJY162LNTCH AJY162LNTCH
50	53	55	55	55	55	55	55	55	55	55	55	55
42.5-110.5	45-117	47.5-123.5	50-130	53-137.8	56.5-146.9	59-153.4	61.5-159.9	64-166.4	67.5-175.5	70-182	72.5-188.5	75-195
3N ~ 400V, 50/60Hz												
85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
290000	308000	325000	342000	362000	385500	403500	420500	437500	462000	479000	496000	513000
324100	341200	341200	341200	385600	431600	448700	448700	448700	511800	511800	511800	511800
23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
12.1	11.8	11.0	10.3	11.6	12.3	12.1	11.4	10.8	11.8	11.2	10.7	10.3
13.1	12.5	12.5	12.5	13.7	13.5	13.0	13.0	13.0	12.5	12.5	12.5	12.5
88.80	94.08	99.36	104.63	110.79	118.05	123.39	128.66	133.94	141.47	146.69	151.82	157.09
303000	321000	339000	357000	378000	402800	421000	439000	457000	482700	500500	518000	536000
25.52	27.71	30.49	33.27	32.11	33.26	35.45	38.23	41.00	41.57	44.35	47.12	49.90
-	-	-	-	-	-	-	-	-	-	-	-	-
13700+13000	13700×2	13700×2	13700×2	13700+11100×2	13700+13000+11100	13700×2+11100	13700×2+11100	13700×2+11100	13700×3	13700×3	13700×3	13700×3
64 / 85	65 / 88	66 / 87	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	67 / 88	68 / 89
66 / 88	67 / 89	67 / 89	67 / 89	66 / 88	67 / 89	68 / 90	68 / 90	68 / 90	69 / 91	69 / 91	69 / 91	69 / 91
82	82	82	82	82	82	82	82	82	82	82	82	82
11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690×2	1690×2	1690×2	1690×2	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3
1240×2	1240×2	1240×2	1240×2	1240+930×2	1240×2+930	1240×2+930	1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3
765×2	765×2	765×2	765×2	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3
279×2	279×2	279×2	279×2	279+255×2	279×2+255	279×2+255	279×2+255	279×2+255	279×3	279×3	279×3	279×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8+11.7×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	38	40	42	44	46
							
AJY288LNTCHH	**AJY306LNTCHH**	**AJY324LNTCHH**	**AJY342LNTCHH**	**AJY360LNTCHH**	**AJY378LNTCHH**	**AJY396LNTCHH**	**AJY414LNTCHH**
AJY108LNTCH AJY108LNTCH AJY072LNTCH	AJY126LNTCH AJY108LNTCH AJY072LNTCH	AJY108LNTCH AJY108LNTCH AJY108LNTCH	AJY126LNTCH AJY108LNTCH AJY108LNTCH	AJY126LNTCH AJY126LNTCH AJY108LNTCH	AJY126LNTCH AJY126LNTCH AJY126LNTCH	AJY144LNTCH AJY126LNTCH AJY126LNTCH	AJY144LNTCH AJY144LNTCH AJY126LNTCH
52	55	55	55	55	55	55	55
44.7-116.2	48-124.6	50.3-130.6	53.5-139.1	56.8-147.5	60-156	62.5-162.5	65-169
3-phase 4 wire, 400 V, 50Hz							
89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
305000	327200	342900	365100	387300	409500	427000	444000
341300	366800	384000	409500	435000	460500	477600	494700
23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
13.2	13.0	12.8	12.6	12.5	12.5	12.2	12.0
15.2	14.7	14.8	14.4	14.0	13.7	13.3	12.9
93.41	100.21	105.01	111.81	118.61	125.41	130.72	135.99
318700	341900	358300	381500	404700	427900	446000	464000
26.08	28.33	30.36	32.61	34.86	37.12	39.44	41.77
-	-	-	-	-	-	-	-
13000×2+11100	13000×2+11100	13000×3	13000×3	13000×3	13000×3	13700+13000×2	13700×2+13000
61 / 82	63 / 84	64 / 83	64 / 84	64 / 85	65 / 88	66 / 87	66 / 87
64 / 87	65 / 88	66 / 88	66 / 88	66 / 88	67 / 89	68 / 90	68 / 90
82	82	82	82	82	82	82	82
11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3
1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3	1240×3	1240×3
765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3
279×2+255	279×2+255	279×3	279×3	279×3	279×3	279×3	279×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

VRF INDOOR UNITS

20 types and 97 models available to meet the requirements of any building design.

The AIRSTAGE™ indoor units were developed to be highly efficient, compact, low noise and to have user friendly operation. With a variety of indoor units and capacities available, Fujitsu General has an indoor unit to match any requirement which is easy to install and maintain. Further, a variety of options are available to achieve an air conditioning environment that is more desirable from the user's perspective.

VRF Indoor Unit Lineup

Capacity range (kW)				1.1	2.2	2.8	3.6
Class				4	7	9	12
Cassette	Compact type	Compact Grid type / Standard type			AUXB 07 GALH	AUXB 09 GALH	AUXB 12 GALH
	Large type	Circular Flow					
	One-way Flow type	One-way Flow	 004 - 012 014 - 024	AUXV 004 GLEH	AUXV 007 GLEH	AUXV 009 GLEH	AUXV 012 GLEH
	3D Flow type	3D Flow					
Duct		Mini Duct (With drain pump)	 004 - 014 018 024	ARXK 004 GLGH	ARXK 007 GLGH	ARXK 009 GLGH	ARXK 012 GLGH
	Low Static Pressure Duct	Slim Duct (With drain pump)	 04 / 007 - 014 018 024	ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH
		Low Static Pressure Duct					
	Medium Static Pressure Duct	Normal					
	High Static Pressure Duct	Normal	 36/45/60 72 90 96				
Floor		Floor (*Same as Ceiling models)					ABYA 12 GATH
		Slim Concealed Floor (*Same as Slim Duct models)	 04 / 007 - 014 018 024	ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH
Ceiling			 012 - 024 030 - 054				ABYA 12 GATH
Wall Mounted		Wall Mounted	 07 - 14 18 - 30		ASYA 07 GACH	ASYA 09 GACH	ASYA 12 GACH
		Wall Mounted	 18 - 24 030 - 034				

4.0	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
14	14	18	24	30	34	36	45	54	60	72	90	96
	AUXB 14 GALH	AUXB 18 GALH	AUXB 24 GALH									
		AUXK 018 GLEH	AUXK 024 GLEH	AUXK 030 GLEH	AUXK 034 GLEH	AUXK 036 GLEH	AUXK 045 GLEH	AUXK 054 GLEH				
	AUXV 014 GLEH	AUXV 018 GLEH	AUXV 024 GLEH									
		AUXS 018 GLEH	AUXS 024 GLEH									
	ARXK 014 GLGH	ARXK 018 GLGH	ARXK 024 GLGH									
	ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH									
			ARXB 24 GALH	ARXB 30 GALH		ARXB 36 GALH	ARXB 45 GALH					
			ARXA 24 GBLH	ARXA 30 GBLH		ARXA 36 GBLH	ARXA 45 GBLH					
						ARXC 36 GATH	ARXC 45 GATH		ARXC 60 GATH*1	ARXC 72 GATH*1	ARXC 090 GTEH*1	ARXC 096 GTEH*1
	ABYA 14 GATH	ABYA 18 GATH	ABYA 24 GATH									
	ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH									
	ABYA 14 GATH	ABYA 18 GATH	ABYA 24 GATH	ABYA 30 GATH		ABYA 36 GATH	ABYA 45 GATH	ABYA 54 GATH				
	ASYA 14 GACH	ASYA 18 GACH	ASYA 24 GACH	ASYA 30 GACH								
		ASYA 18 GBCH	ASYA 24 GBCH	ASYA 030 GTEH	ASYA 034 GTEH							

*1: ARXC60/072/090/096G cannot be connected to J-IVS / J-IV Series.
*2: AUXA18/24GALH, ARXQ018/024/030GTAH type can be connected to VR-IV / V-III Series only.
*3: ARXD04GALH cannot be connected to J-IVS / J-IV / J-IVL / VR-IV Series.
*4: AUXN009/012/014GLAH can be connected to J-IVS / J-IV Series only.
*5: ARXP009/012/014GLAH can be connected to J-IVS / J-IV / J-IVL Series only.
*6: Production by order
*7: ARXP018GLAH, ARXP024/030GTAH can be connected to J-IVL Series only.
Specifications and design are subject to change without notice.

Cassette
One-way Flow type

DC FAN

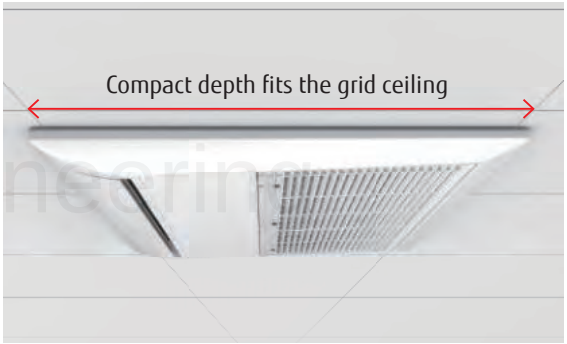
Compact chassis size

Their compact sizes make it easy to install them in a variety of commercial locations and environments.

- The chassis is less than 200 mm high in every model.
- All 4 to 12kBtu models are less than 1,000 mm wide.
- The chassis depth is 570 mm, which fits nicely into a grid-type ceiling.

Dimensions (Panel size) (Unit : mm)

	4	7	9	12	14	18	24
H	198 (43)				198 (43)		
W	785 (950)				1,190 (1,360)		
D	570 (620)				570 (620)		

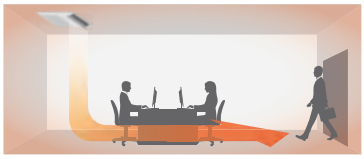


Wide airflow range

The large flap with triangularly arrayed louvers has a wider movable range and directs an airflow to the furthest corners of the room.

In cooling mode, the horizontal airflow reaches the furthest corners of the room and avoids hitting human bodies directly in order to provide comfortable air conditioning.

In heating mode, the warm air is directed downward toward the floor to warm the occupants' feet and lower bodies while keeping their heads relatively cool.



Note: This is a conceptual drawing. Air conditioning performance may vary depending on installation, room size, and the distance from the wall.

Low noise operation

They produce little noise during operation, which makes them an ideal choice for use in hotel rooms.

Model : AUXV004GLEH / AUXV007GLEH / AUXV009GLEH
AUXV012GLEH / AUXV014GLEH / AUXV018GLEH
AUXV024GLEH

AUXV004/007/009/012GLEH

AUXV014/018/024GLEH

Specifications

Model name			AUXV004GLEH	AUXV007GLEH	AUXV009GLEH	AUXV012GLEH	AUXV014GLEH	AUXV018GLEH	AUXV024GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	BTU/h	3,800	7,500	9,600	12,300	15,400	19,100	24,200
	Cooling T2		3,911	7,848	9,895	12,966	16,036	19,790	25,249
	Heating		4,400	9,600	10,900	14,000	17,100	21,500	27,300
Input power		W	30/30	42/42	42/42	60/60	38/38	56/56	99/99
Airflow rate*	High	m^3/h	460	550	550	670	720	890	1,150
	Med-High		440	440	440	520	660	840	1,020
	Med		420	420	420	480	630	770	940
	Med-Low		400	400	400	450	600	710	790
	Low		380	380	380	410	580	660	700
	Quiet		360	360	360	360	550	580	610
Sound pressure level*	High	dB(A)	38	42	42	45	37	44	49
	Med-High		37	37	37	41	36	43	47
	Med		36	36	36	39	35	40	45
	Med-Low		35	35	35	38	34	38	42
	Low		33	33	33	36	33	36	39
	Quiet		32	32	32	32	32	34	36
Net Dimensions (H × W × D)		mm	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 1,190 × 570	198 × 1,190 × 570	198 × 1,190 × 570
Weight		kg(lbs)	18 (40)	19 (42)	19 (42)	19 (42)	26 (57)	26 (57)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						
Cassette Grille	Model name		UTG-UNYA-W				UTG-UNYB-W		
	Net Dimensions (H×W×D)	mm	43 × 950 × 620				43 × 1,360 × 620		
	Weight	kg(lbs)	6.5 (14.5)				8.5 (18.0)		

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

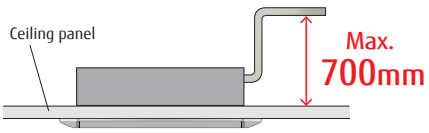
Optional parts

Wireless LAN Interface: UTY-TFSXZ1
IR Receiver Unit: UTY-TRHX
Cassette Grille: UTG-UNYA-W / UTG-UNYB-W
External Power Supply Unit: UTZ-GXXA

Flexible Installation

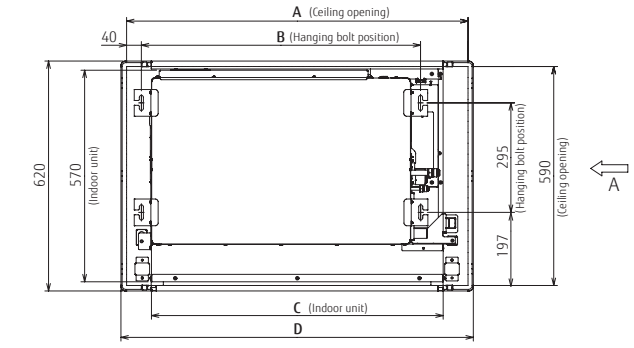
By using new L-type piping kit, more flexible installation is possible.

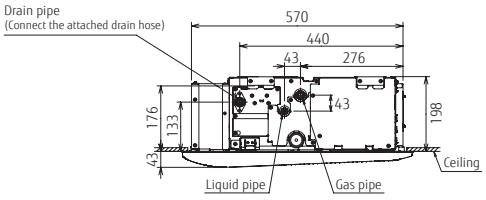
Built-in drain pump as standard accessory, which enable to have maximum 700m piping height difference from the ceiling.



Dimensions

(Unit : mm)





VIEW A

	AUXV004-012	AUXV014-024
A	920	1,330
B	752	1,152
C	785	1,190
D	950	1,360

3D Flow Cassette

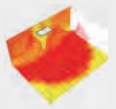
DC FAN

3 Air Outlet Ports can be controlled individually

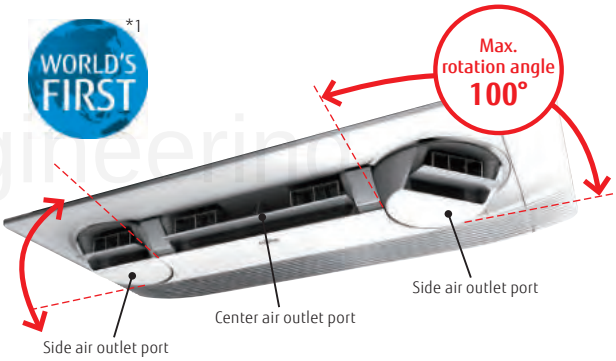
Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

Temperature distribution during cooling and heating (when set to comfortable airflow)

Cooling: When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40m² environmental our test room for the AUXS024GLEH



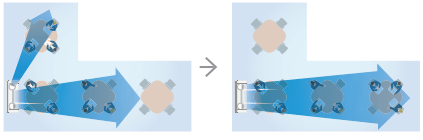
Heating: When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40m² environmental our test room for the AUXS024GLEH



*1: Announced 2018. In room air conditioner for the home (our company's investigation)

Individual airflow setting

Equipped with an "Individual airflow setting" function that optimizes the airflow setting in accordance with the installation location.



Suitably setting the side air outlet ports to match how the space is used achieves air conditioning with no waste.

Optimum airflow control for improved comfort is achieved even for long rooms.

Wired Remote Controller (Touch Panel)
UTY-RNRYZ3

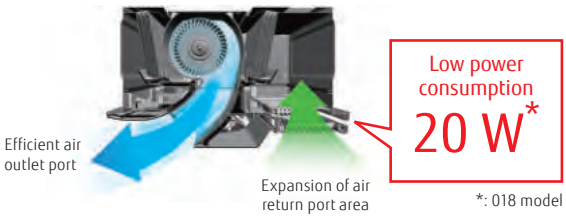
Individual air outlet port control

"Individual airflow setting" is possible using the Wired Remote Controller (Touch Panel)*. The airflow of the respective air outlet ports can be individually set.

*Wired Remote Controller (Touch Panel) UTY-RNRYZ3 only

High Energy Saving

The "New structural design" featuring large intake and smooth output reduces air blowing loss to achieve top class energy saving.



*: 018 model

Model : AUXS018GLEH / AUXS024GLEH

Specifications

Model name			AUXS018GLEH	AUXS024GLEH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	BTU/h	19,100	24,200
	Cooling T2		19,790	25,249
	Heating		21,500	27,300
Input power		W	20/28	34/43
Airflow rate*	High	m^3/h	750/870	950/1,040
	Med-High		710/830	890/990
	Med		690/780	860/930
	Med-Low		660/740	810/880
	Low		630/700	770/840
	Quiet		540/540	540/540
Sound pressure level*	High	dB(A)	38/41	43/46
	Med-High		36/40	42/45
	Med		35/39	41/43
	Med-Low		35/37	40/42
	Low		33/36	38/40
	Quiet		29/29	29/29
Net Dimensions (H × W × D)		mm	200 × 1,240 × 500	200 × 1,240 × 500
Weight		kg(lbs)	25 (55)	25 (55)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52
	Gas (Flare)		12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32	
Cassette Grille	Model name		UTG-USYA-W	
	Net Dimensions (H×W×D)	mm	85 × 1,350 × 580	
	Weight	kg(lbs)	11.5 (25)	

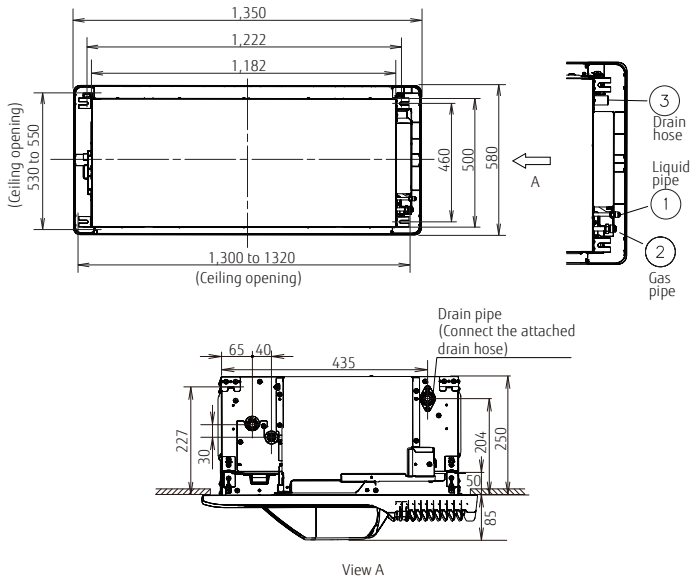
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*: This value is "cooling operation / heating operation".

Optional parts

Wireless LAN Interface: UTY-TFSXZ1
IR Receiver Unit: UTY-TRHX
Cassette Grille: UTG-USYA-W
External Power Supply Unit: UTZ-GXXA

Dimensions

(Unit : mm)



View A

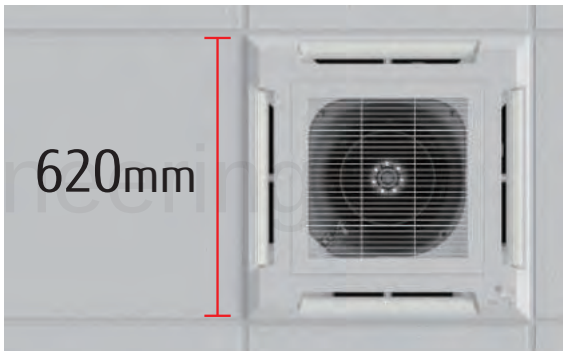
Compact Cassette

Grid type

DC FAN

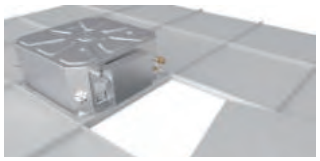
Compact and stylish panel design

Compact and stylish panel design fits the grid type ceiling. It is a linear design suitable for grid shape of 620mm × 620mm grid ceiling.

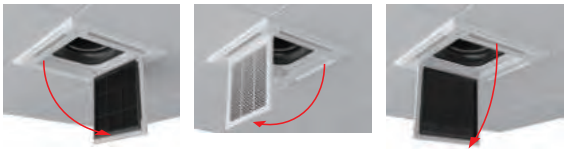


Easy maintenance

Maintenance is easier by removing the ceiling panel next to the grill, maintenance can be done, and new installation of inspection hole is unnecessary, so construction costs can be suppressed.



The air inlet grill can be installed in various directions, so maintenance is easy.



Flexible installation

It is suitable for ceiling of grid type and it has high degree of freedom of installation and it can be installed beside lighting and ventilation opening.

High ceiling mode

The compact cassette can be installed up to a height of 3.0m (012/014/018/024).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
007	2.7	-
009	2.7	-
012	2.7	3.0
014	2.7	3.0
018	2.7	3.0
024	2.7	3.0

Model : AUXB07GALH / AUXB09GALH / AUXB12GALH
AUXB14GALH / AUXB18GALH / AUXB24GALH

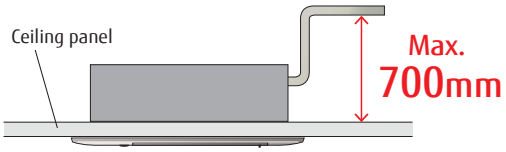
Specifications

Model name			AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power source			Single phase, ~230V, 50Hz					
Capacity	Cooling	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
	Cooling T2		7,848	9,895	12,966	16,036	19,790	25,249
	Heating		9,500	10,900	13,990	17,000	21,500	27,200
Input power		W	25	25	29	35	36	84
Airflow rate	High	m^3/h (l/s)	540 (150)	550 (153)	600 (167)	680 (189)	710 (197)	1,030 (286)
	Med		450 (125)	450 (125)	530 (147)	590 (164)	580 (161)	830 (231)
	Low		350 (97)	350 (97)	390 (108)	390 (108)	400 (111)	450 (125)
Sound pressure level	High	dB(A)	34	35	37	38	41	50
	Med		30	30	34	34	35	44
	Low		25	25	27	27	27	30
Net Dimensions (H × W × D)		mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight		kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32					
Cassette Grille	Model name		UTG-UFYC-W / UTG-UEYC-W					
	Net Dimensions (H×W×D)	mm	50 × 700 × 700 / 50 × 620 × 620					
	Weight	kg(lbs)	2.6(6) / 2.3(5.1)					

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.

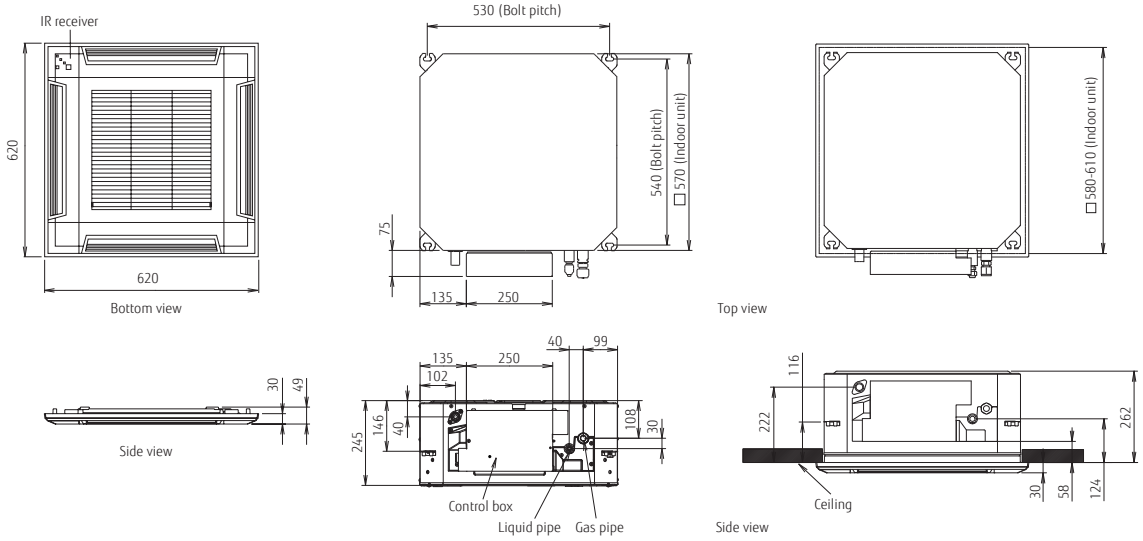
Optional parts

Air Outlet Shutter Plate:	UTR-YDZB	Casette Grille:	UTG-UFYC-W, UTG-UFYE-W
Flesh Air Intake Kit:	UTZ-VXAA	External Power Supply Unit:	UTZ-GXXA
Insulation Kit for High Humidity:	UTZ-KXGC	Wireless LAN Interface:	UTY-TFSXZ1



Dimensions

(Unit : mm)

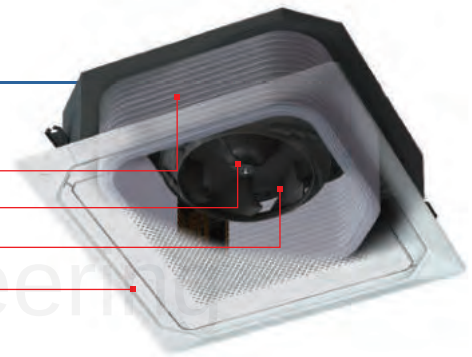


Cassette
Large type
Circular Flow

DC FAN

Unique Circular Flow design

New Cassette type achieves a Circular airflow discharge in 360° direction by means of a high performance DC fan motor, new turbo fan and unique seamless airflow louver design.



Uniform temperature air conditioning

Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.

Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.
* Touch Panel Wired RC (UTY-RNRYZ3) only

Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

Efficient air conditioning based on the room layout

Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.
*Touch Panel Wired RC (UTY-RNRYZ3) only

Human sensor (Option)

2 modes can be selected

Auto saving	Power is saved while people are away.
Auto OFF	Operation stops after people go out.

Model : AUXK018GLEH / AUXK024GLEH / AUXK030GLEH
AUXK034GLEH / AUXK036GLEH / AUXK045GLEH
AUXK054GLEH

Specifications

Model name			AUXK018GLEH	AUXK024GLEH	AUXK030GLEH	AUXK034GLEH	AUXK036GLEH	AUXK045GLEH	AUXK054GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	BTU/h	19,100	24,200	30,700	34,100	38,200	42,700	47,800
	Cooling T2		19,790	25,249	32,073	35,485	39,920	44,356	49,815
	Heating		21,500	27,300	34,100	38,200	42,700	47,800	54,600
Input power		W	40	40	47	47	61	89	116
Airflow rate	High	m^3/h	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-High		1,360	1,360	1,400	1,400	1,500	1,590	1,800
	Med		1,300	1,300	1,340	1,340	1,400	1,500	1,590
	Med-Low		1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low		1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet		1,150	1,150	1,150	1,150	1,150	1,150	1,150
Sound pressure level	High	dB(A)	38	38	39	39	41	44	47
	Med-High		37	37	38	38	40	42	45
	Med		36	36	37	37	38	40	42
	Med-Low		35	35	36	36	37	38	39
	Low		34	34	35	35	35	36	36
	Quiet		33	33	33	33	33	33	33
Dimensions (H × W × D)		mm	288 × 840 × 840						
Weight		kg(lbs)	26.5 (58)	26.5 (58)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32						
Cassette Grille	Model name		UTG-UKYC-W / UTG-UKYA-B						
	Dimensions (H×W×D)	mm	53 × 950 × 950						
	Weight	kg(lbs)	6.0 (13)						

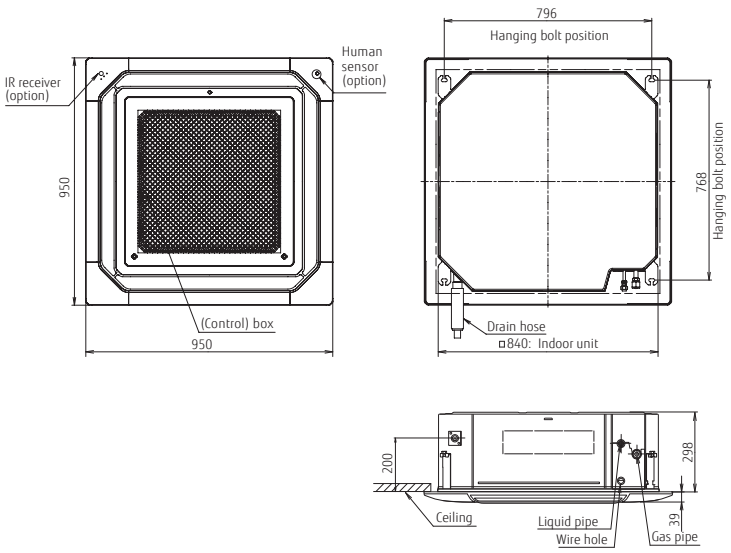
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLEH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.

Optional parts

Human Sensor Kit:	UTY-SHZXC	Fresh Air Intake Kit:	UTZ-VXRA	Casette Grille:	UTG-UKYC-W, UTG-UKYA-B	Wireless LAN Interface:	UTY-TFSXZ1
Wide Panel:	UTG-AKXA-W	Air Outlet Shutter Plate:	UTR-YDZK	External Power Supply Unit:	UTZ-GXXA		
Panel Spacer:	UTG-BKXA-W	Insulation Kit for High Humidity:	UTZ-KXRA	IR Receiver Unit:	UTY-LBHXD		

Dimensions

(Unit : mm)

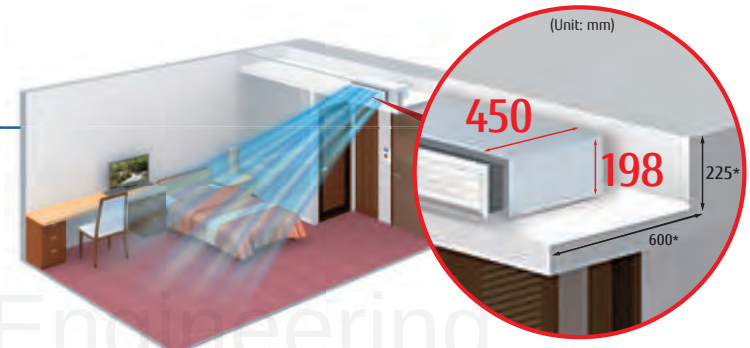


Low Static Pressure Duct Mini Duct
(With drain pump)

DC FAN

Large living space available

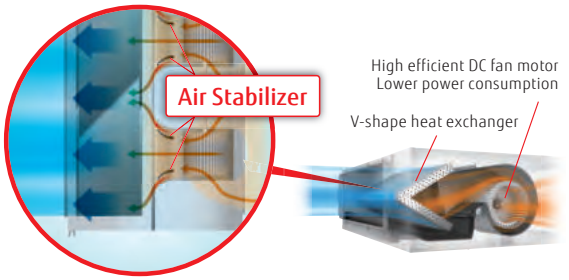
- Installation space can be reduced down to minimum depth 450mm height 198 mm and compact design
- Minimum size: Depth 450mm, Height 198mm Volume 30% down compared with current model
- Lightweight: 16kg 10%down



*: Minimum installation dimension

Optimum airflow path and low noise operation

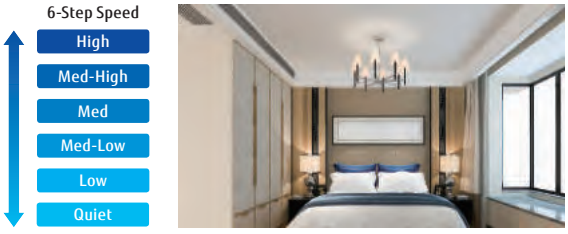
Low noise is realized drastically by stabilized airflow design



6-speed control*

Multistep airflow speed control allows this model to install in a quiet location.

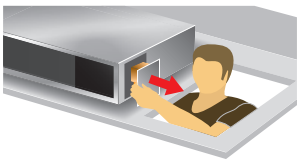
Low noise
20dB(A)
at 04 model



* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-ALGXZ1/UTY-APGXZ1

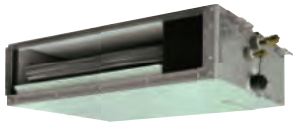
Easy design and maintenance for drain

Maintenance is easy by easy design indoor unit. Parts can be replaced from the side of the unit where maintenance is easier.

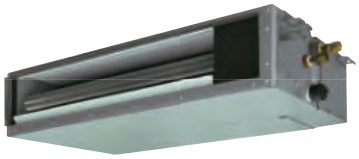


Built-in drain pump as standard :
Maintenance is easy

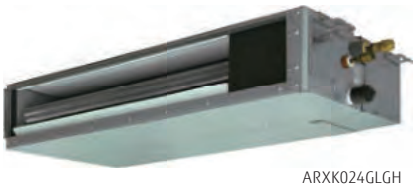
Model : ARXK004GLGH / ARXK007GLGH / ARXK009GLGH
ARXK012GLGH / ARXK014GLGH / ARXK018GLGH
ARXK024GLGH



ARXK004/007/009/012/014GLGH



ARXK018GLGH



ARXK024GLGH

Specifications

Model name			ARXK004GLGH	ARXK007GLGH	ARXK009GLGH	ARXK012GLGH	ARXK014GLGH	ARXK018GLGH	ARXK024GLGH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	BTU/h	3,800	7,500	9,600	12,300	15,400	19,100	24,200
	Cooling T2		3,911	7,848	9,895	12,966	16,036	19,790	25,249
	Heating		4,400	9,600	10,900	14,000	17,100	21,500	27,300
Input power		W	26	28	28	35	66	73	80
Airflow rate	High	m^3/h	460	460	460	550	760	930	1,160
	Med-High		440	440	440	520	660	840	1,060
	Med		420	420	420	480	560	740	960
	Med-Low		400	400	400	450	490	640	860
	Low		370	370	370	410	410	540	750
	Quiet		340	340	340	340	340	470	610
Static pressure range		Pa	0 to 30	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure			10	10	10	10	15	15	15
Sound pressure level	High	dB(A)	25	26	26	29	34	33	32
	Med-High		24	25	25	27	31	30	30
	Med		23	24	24	26	28	28	28
	Med-Low		22	23	23	25	26	26	27
	Low		21	22	22	24	24	24	25
	Quiet		20	21	21	22	22	22	22
Net Dimensions (H × W × D)		mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 450
Weight		kg(lbs)	14.5 (32)	15.5 (34)	15.5 (34)	16 (35)	16 (35)	19 (42)	22.5 (50)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						

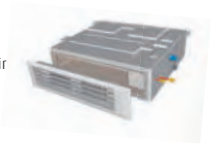
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

Remote Sensor Unit :	UTY-XSZX	Auto Louver Grille Kit:	UTD-GXTA-W (004/007/009/012/014)
IR Receiver Unit :	UTB-YWC		UTD-GXTB-W (018)
External Power Supply Unit:	UTZ-GXXA		UTD-GXTC-W (024)

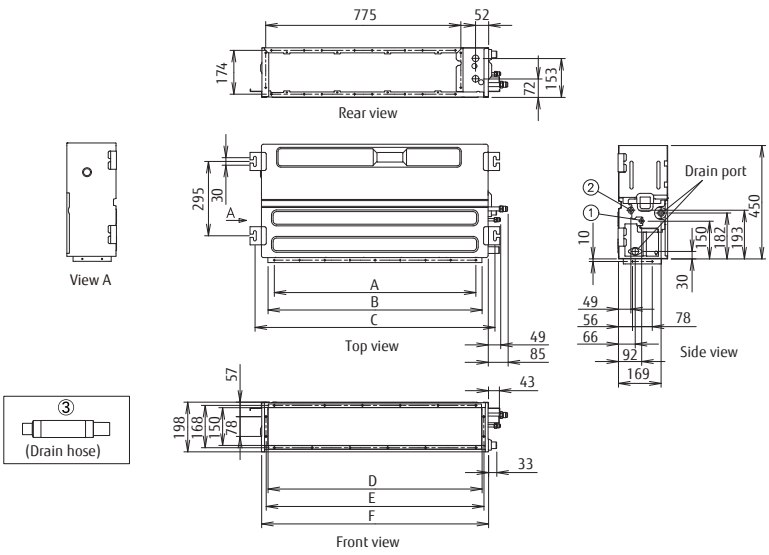
Auto Louver Grille Kit (Option)

Thin design provides a comfortable living environment over a wide area.
Automatic louver grille provides comfortable air conditioning all the way down to the floor and matches the interior design well. (Optional)



Dimensions

(Unit : mm)



① Refrigerant pipe flare connection (Liquid)
② Refrigerant pipe flare connection (Gas)
③ Drain hose connection

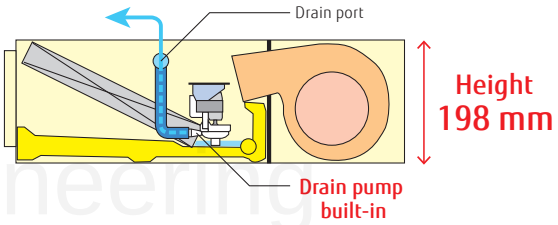
	ARXK004-014	ARXK018	ARXK024
A	P100×6=600	P100×8=800	P100×10=1000
B	650	850	1050
C	752	952	1152
D	650	850	1050
E	665	864	1064
F	700	900	1100

Low Static Pressure Duct
Slim Duct / Slim Concealed Floor

DC FAN

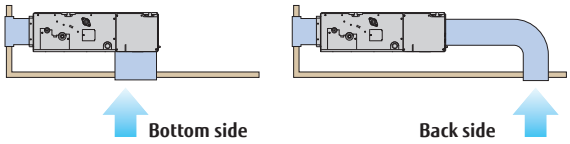
Slim design

With a slim design, this indoor unit can be installed in narrow ceiling spaces.



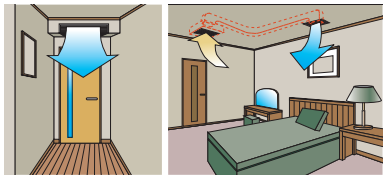
Air-intake

Air intake direction can be selected to match the installation site.



Flexible installation

Ceiling concealed



Floor concealed

Selectable with a wide range of static pressure

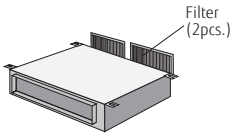
By using DC fan motor, it is possible to change the static pressure range from 0 to 90Pa. The change of static pressure range is possible by remote controller.

Static pressure range
0 to 90Pa

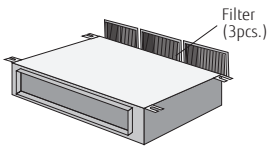
*024 model is 0 to 50Pa

Filter (Accessory)

ARXD04/007/009/012/014/018



ARXD024



Model : ARXD04GALH / ARXD007GLEH / ARXD009GLEH
ARXD012GLEH / ARXD014GLEH / ARXD018GLEH
ARXD024GLEH

ARXD04GALH
ARXD007/009/012/014GLEH

ARXD018GLEH

ARXD024GLEH

Slim Concealed Floor

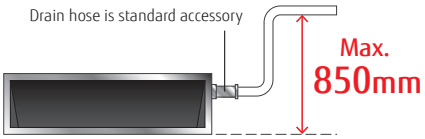
Specifications

Model name			ARXD04GALH*	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	BTU/h	3,800	7,500	9,600	12,300	15,400	19,100	24,200
	Cooling T2		3,911	7,848	9,895	12,966	16,036	19,790	25,249
	Heating		4,400	9,600	10,900	14,000	17,100	21,500	27,300
Input power		W	40	44	50	54	92	83	122
Airflow rate	High	m^3/h	510	550	600	600	800	940	1,330
	Med-High		-	480	510	530	680	820	1,140
	Med		400/470*1	440	460	490	600	730	1,020
	Med-Low		-	410	420	450	520	630	900
	Low		320/440*1	370	370	410	440	540	780
	Quiet		-	320	320	340	340	470	610
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25	25
Sound pressure level	High	dB(A)	26	28	29	30	34	34	35
	Med-High		-	26	27	28	32	31	31
	Med		21/25*1	25	25	27	30	29	29
	Med-Low		-	24	24	26	28	27	27
	Low		20/22*1	22	22	24	25	25	24
	Quiet		-	21	21	22	22	23	21
Net Dimensions (H × W × D)		mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620
Weight		kg(lbs)	17 (37)	17 (37)	17 (37)	18 (40)	18 (40)	22 (48)	26 (57)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.
*:ARXD04GALH cannot be connected to J-IVS / J-IV / J-IVL / VR-IV Series.

Optional parts

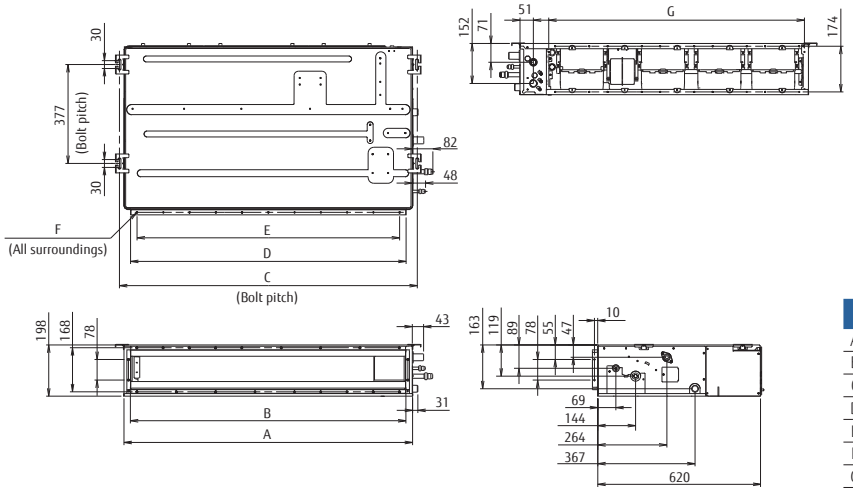
Remote Sensor Unit : UTY-XSZX
IR Receiver Unit : UTB-YWC (004)
UTY-TRHX (007/009/012/014/018/024)
External Power Supply Unit : UTZ-GXXA
Auto Louver Grille Kit: UTD-GXTA-W (04/007/009/012/014)
UTD-GXTB-W (018)
UTD-GXTC-W (024)



Dimensions

(Unit : mm)

*Service accessibility must be allowed for when installing the product.
Please consult the installation manual for the necessary service access size.



	ARXD04-014	ARXD018	ARXD024
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100×6=600	P100×8=800	P100×10=1000
F	18×Ø5	22×Ø5	26×Ø5
G	574	774	974

Low Static Pressure Duct

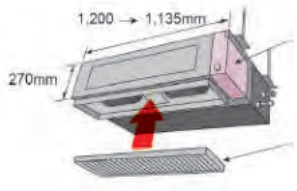
DC FAN

Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.

Slim & Compact design

In the case of bottom return air connection, not only does the indoor unit design allow for installation in narrow ceiling space of up to 270mm, Further space savings have been achieved by mounting the electrical control box internally inside the chassis.

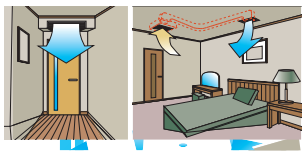


One touch operating and easy to install long life filter (Optional Parts)

Control box is now included as part of the main chassis

Flexible installation

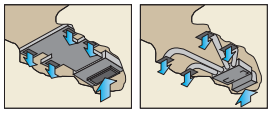
Ceiling concealed



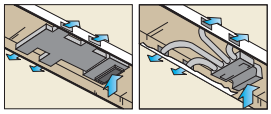
Floor concealed

Installation styles

Embedded in Ceiling



Hanging from Ceiling



Model : ARXB24GALH / ARXB30GALH / ARXB36GALH / ARXB45GALH

Specifications

Model name			ARXB24GALH	ARXB30GALH	ARXB36GALH	ARXB45GALH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h	24,200	30,700	38,200	42,600
	Cooling T2		25,249	32,073	39,920	44,356
	Heating		27,200	34,100	42,600	47,700
Input power		W	145	198	253	338
Airflow rate	High	m^3/h (l/s)	1,100 (306)	1,410 (392)	1,710 (457)	1,970 (547)
	Med		920 (256)	1,280 (356)	1,600 (444)	1,790 (497)
	Low		810 (225)	1,150 (319)	1,470 (408)	1,670 (464)
Static pressure range		Pa	0 to 80	0 to 80	0 to 80	0 to 80
Standard static pressure			40	50	50	60
Sound pressure level	High	dB(A)	31	34	37	41
	Med		27	32	35	38
	Low		25	29	33	36
Net Dimensions (H × W × D)		mm	270 × 1,135 × 700			
Weight		kg	39	42	42	42
Connection pipe diameter	Liquid (Flare)	mm	9.52			
	Gas (Flare)		15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)			25/32			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
Low Static Pressure Duct Slim Duct High Efficiency can be connected to J-IVS / J-IV / J-IVL Series only.

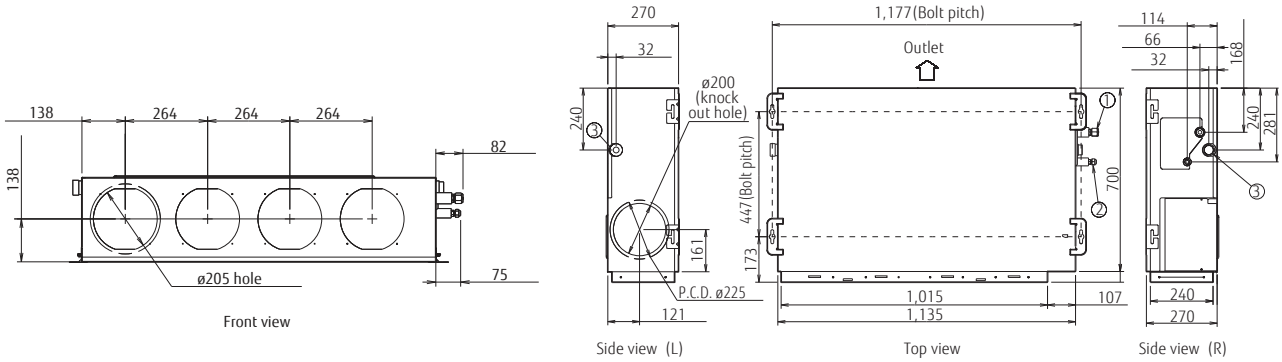
Optional parts

IR receiver unit: UTB-YWC
Long life filter: UTD-LF25NA
Flange (Square): UTD-SF045T
Flange (Round): UTD-RF204
Drain pump unit: UTZ-PX1NBA
Remote sensor unit: UTY-XSZX

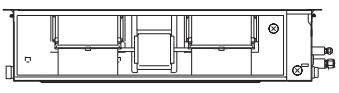
Dimensions

(Unit : mm)

Model : ARXB24GALH / ARXB30GALH / ARXB36GALH / ARXB45GALH



1 Refrigerant piping flare connection (Liquid)
2 Refrigerant piping flare connection (Gas)
3 Drain piping connection (Drain pipe)



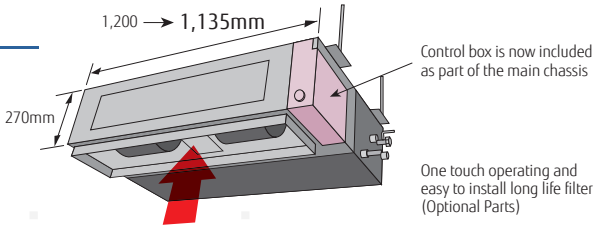
Rear view

Medium Static Pressure Duct

DC FAN

Slim & Compact design

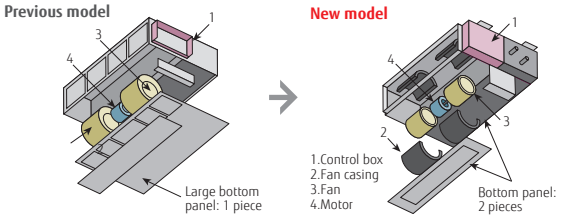
The slim and compact design of the indoor unit, with the control box mounted on the side of the unit, allows installation in narrow spaces.



Easy maintenance

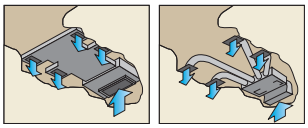
Structural improvement has been developed by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

See below for the case of rear suction type

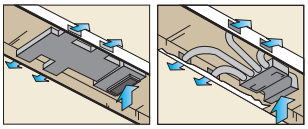


Installation styles

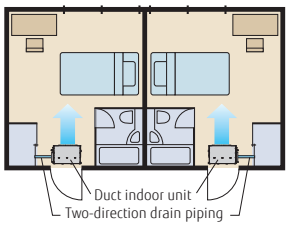
Embedded in Ceiling



Hanging from Ceiling



Two-direction drain piping



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.

24 model

30 / 36 / 45 model

Selectable with a wide range of static pressure

It is possible to change of static pressure range 0 to 150Pa.

Static pressure range
0 to 150Pa

Model : ARXA24GBLH / ARXA30GBLH / ARXA36GBLH / ARXA45GBLH

Specifications

Model name			ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h	24,200	30,700	38,200	42,700
	Cooling T2		25,249	32,073	39,920	44,456
	Heating		27,300	34,100	42,700	47,800
Input power		W	94	108	194	240
Airflow rate	High	m^3/h	1,280	1,410	1,840	1,970
	Med		990	1,280	1,600	1,860
	Low		840	1,150	1,470	1,640
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB(A)	31	34	37	41
	Med		27	32	35	38
	Low		23	29	33	36
Net Dimensions (H × W × D)		mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg	36	40	40	40
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)			25/32			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

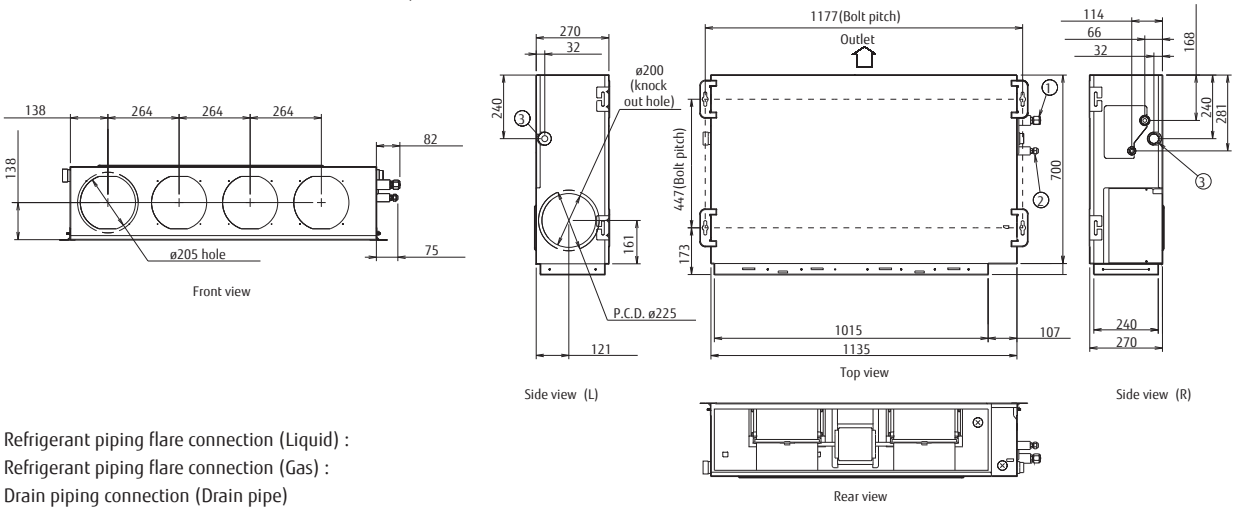
Optional parts

Long Life Filter :	UTD-LF25NA	IR Receiver Unit :	UTB-YWC
Flange (Square) :	UTD-SF045T	Drain Pump Unit :	UTZ-PX1NBA
Flange (Round) :	UTD-RF204		

Dimensions

(Unit : mm)

*Service accessibility must be allowed for when installing the product.
Please consult the installation manual for the necessary service access size.



① Refrigerant piping flare connection (Liquid) :
② Refrigerant piping flare connection (Gas) :
③ Drain piping connection (Drain pipe)

High Static Pressure Duct

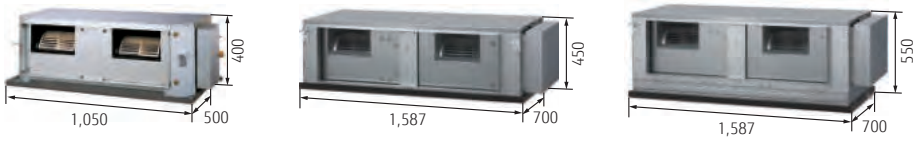
Static pressure selection

By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC036) / 300Pa (ARXC072 / 090 / 096).

Easy installation (Compact size & Lightweight)

(unit: mm)

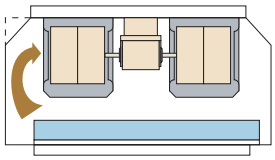
A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.



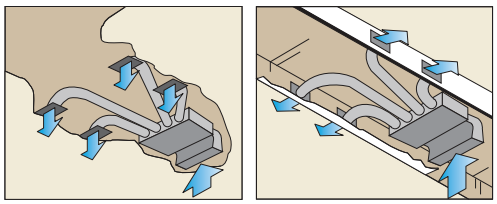
(ARXC36/45/60 type) (ARXC090) (ARXC096 type)

Low noise

Models : ARXC 36 / ARXC45 / ARXC60
Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.



Installation styles



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.

(090 / 096 type)

Model : ARXC36GATH / ARXC45GATH / ARXC60GATH / ARXC72GATH
ARXC090GTEH / ARXC096GTEH

ARXC36GATH / ARXC45GATH / ARXC60GATH

ARXC72GATH

ARXC090GTEH

ARXC096GTEH

Specifications

Model name			ARXC36GATH	ARXC45GATH	ARXC60GATH*	ARXC72GATH*	ARXC090GTEH*	ARXC096GTEH*
Power source			Single phase, ~230V, 50Hz					
Capacity	Cooling	BTU/h	38,200	42,700	61,400	76,400	85,300	95,500
	Cooling T2		39,920	44,456	64,146	79,841	89,053	99,630
	Heating		42,700	47,800	68,200	85,300	95,500	107,500
Input power		W	405	715	730	1,110	819	838
Airflow rate	High	m^3/h	2,600	3,500	3,500	3,900	4,300	4,850
	Med		1,950	3,000	3,000	3,300	4,000	4,250
	Low		1,450	2,460	2,460	3,000	3,500	3,600
Static pressure range		Pa	100 to 200	100 to 250	100 to 250	50 to 300	0 to 300	0 to 300
Standard static pressure			100	100	100	260	150	150
Sound pressure level	High	dB(A)	45	49	49	51	48	48
	Med		38	45	45	48	46	45
	Low		32	42	42	45	44	42
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,550 × 700	450 × 1,587 × 700	550 × 1,587 × 700
Weight		kg(lbs)	43 (88)	46 (101)	46 (101)	83 (183)	84 (185)	105 (231)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	12.70 (Brazing)	9.52 (Flare)	9.52 (Brazing)
	Gas		19.05 (Flare)	19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)	19.05 (Flare)	22.22 (Brazing)
Drain hose diameter (I.D./O.D.)			25/32					

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V] .
*: ARXC60/072/090/096G cannot be connected to J-IV/J-IVS Series.

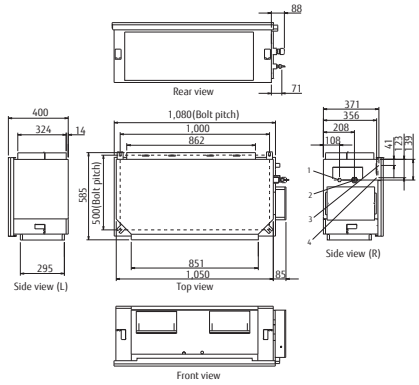
Optional parts

Long-Life Filter :	UTD-LF60KA (36/45/60)
IR Receiver Unit :	UTB-YWC (36/45/60/72)
	UTY-TRHX (90/96)
External Power Supply Unit :	UTZ-GXXA (90/96)
Wireless LAN Interface :	UTY-TFSXZ1 (90/96)
Remote Sensor Unit :	UTY-XSZX

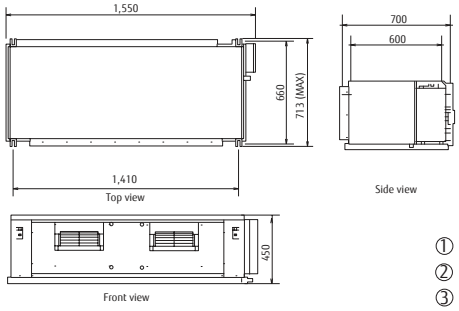
Dimensions

(Unit : mm)

Models: ARXC36 / ARXC45 / ARXC60

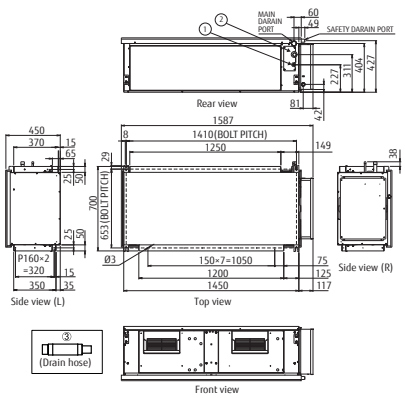


Model : ARXC72

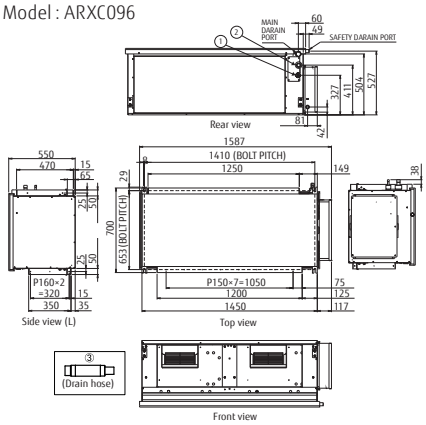


① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection (safety drain pan)
④ Drain piping connection (Main drain pan)

Model : ARXC090



Model : ARXC096



① Refrigerant pipe flare connection (Liquid)
② Refrigerant pipe flare connection (Gas)
③ Drain hose

VRF

Floor / Ceiling

DC FAN

Flexible installation

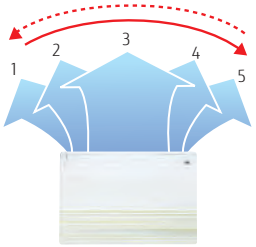
Example for floor installation
Floor console

Example for ceiling installation
Under ceiling

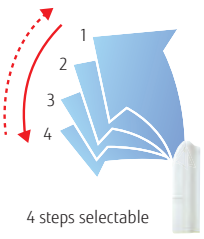
Double auto swing

A combination of up/down and right/left directional swing allows three-dimensional air direction control.

RIGHT and LEFT SWING



UP and DOWN SWING



4 steps selectable

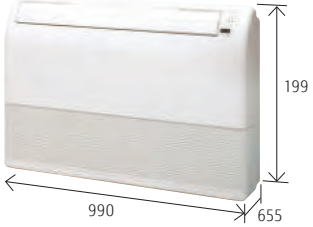
High power DC fan motor

- High power
- Wide rotation range
- High efficiency

Compact design

(Unit:mm)

Symmetrical, slim and compact design.



Model : ABYA12GATH / ABYA14GATH / ABYA18GATH / ABYA24GATH

Floor standing

Specifications

Model name			ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h	12,300	15,400	19,100	24,200
	Cooling T2		12,966	16,036	19,790	25,249
	Heating		13,600	17,000	21,500	27,200
Input power		W	30	42	74	99
Airflow rate	High	m^3/h (l/s)	660 (183)	780 (216)	1,000 (277)	1,000 (277)
	Med		570 (158)	640 (177)	720 (199)	820 (227)
	Low		490 (136)	550 (152)	580 (161)	680 (188)
Sound pressure level	High	dB(A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Net Dimensions (H × W × D)		mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg(lbs)	25 (55)	26 (57)	26 (57)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32			

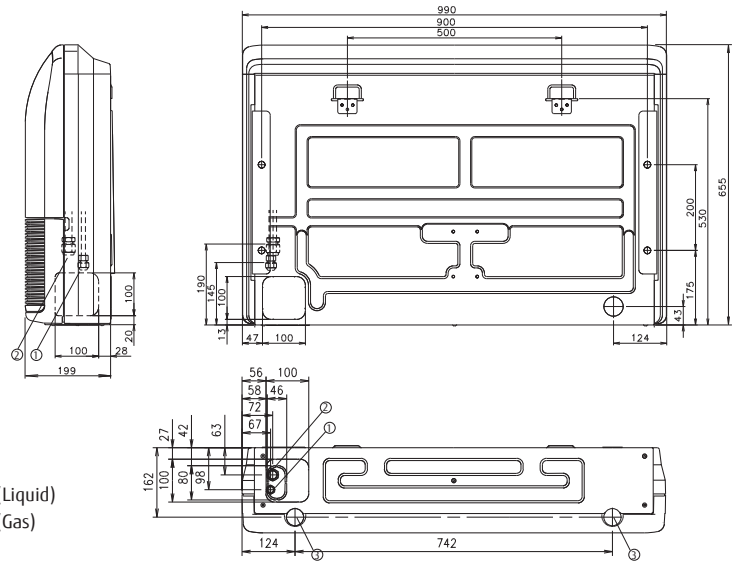
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



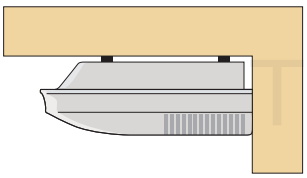
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Ceiling

DC FAN

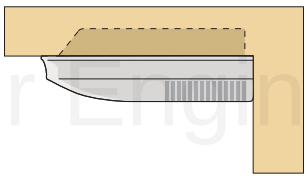
Installation

Open



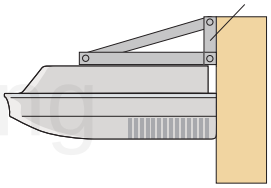
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



Installation pattern where part of the indoor unit is embedded into the ceiling.

Wall mounted (Field Supplied)

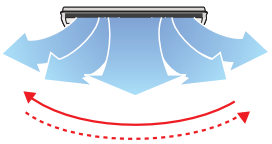


Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Double auto swing and wide airflow

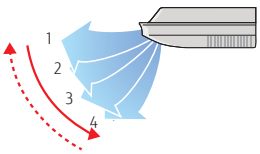
Auto airflow direction and auto swing

Right and left



5 steps selectable

Up and down



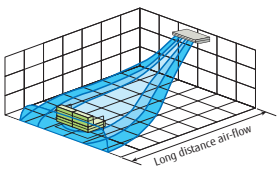
4 steps selectable

High power DC fan motor

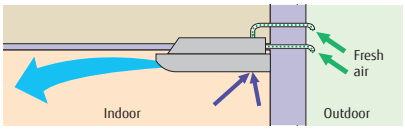
- High power
- Wide rotation range
- High efficiency

Long airflow

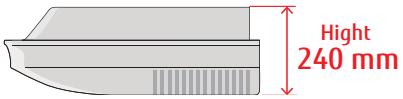
Long Airflow ensures comfort to every corner of a large room.



Fresh air intake



Slim & Compact design



Model : ABYA30GATH / ABYA36GATH / ABYA45GATH / ABYA54GATH

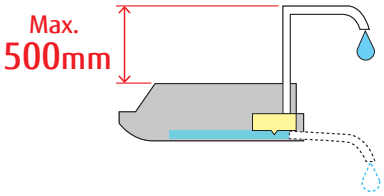
Specifications

Model name			ABYA30GATH	ABYA36GATH	ABYA45GATH	ABYA54GATH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h	30,700	38,200	42,600	47,800
	Cooling T2		32,073	39,920	44,356	49,815
	Heating		34,100	42,600	47,700	54,500
Input power		W	66	85	131	180
Airflow rate	High	m^3/h (l/s)	1,630 (452)	1,690 (469)	2,010 (558)	2,270 (629)
	Med		1,370 (379)	1,400 (389)	1,600 (444)	1,780 (493)
	Low		1,140 (316)	1,170 (325)	1,230 (342)	1,280 (355)
Sound pressure level	High	dB(A)	42	45	48	51
	Med		38	38	42	45
	Low		33	34	35	36
Net Dimensions (H × W × D)		mm	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg	46	48	48	48
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	19.05	19.05	19.05
Drain hose diameter (I.D./O.D.)			25/32			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

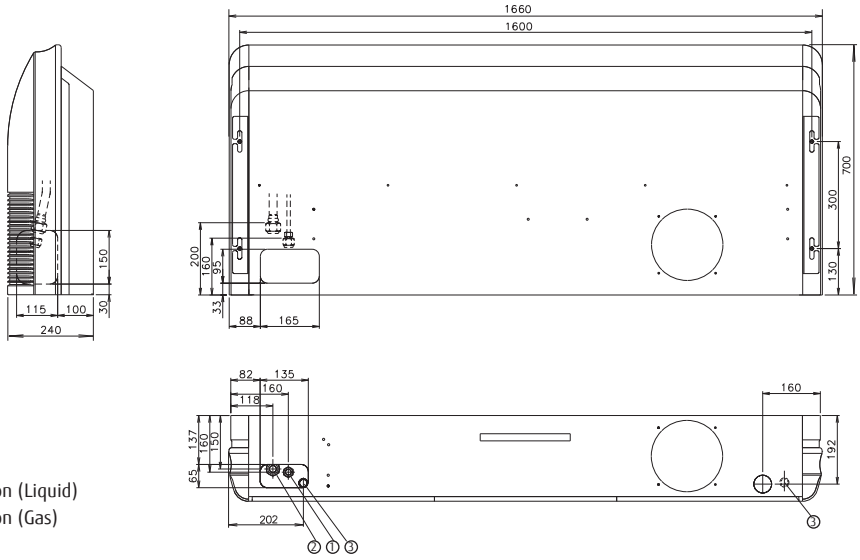
Optional parts

Drain Pump Unit : UTR-DPB24T
Flange : UTD-RF204
External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1



Dimensions

(Unit : mm)



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Wall Mounted

DC FAN

Compact size

Powerful output even compact design

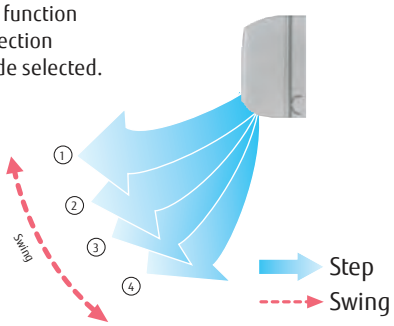
Though the indoor unit is compact, it features a large, high pressure cross fan (90mm diameter) in a centre mounted configuration and a Lambda type heat exchanger to provide plenty of power.

790mm

Width
790 mm

Auto swing louver

The Auto Swing Louver function ensures that the air direction corresponds to the mode selected.



Filter Features

High performance filter provides high quality air conditioning

Long-life* Ion Deodorization Filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

(*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.)

Apple-catechin Filter

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

High power DC fan motor

- High power
- Wide rotation range
- High efficiency
- Compact size

Easy maintenance

Easy maintenance has been realized as the front panel can removed for easy access.

Open panel

Model : ASYA07GACH / ASYA09GACH / ASYA12GACH / ASYA14GACH

Specifications

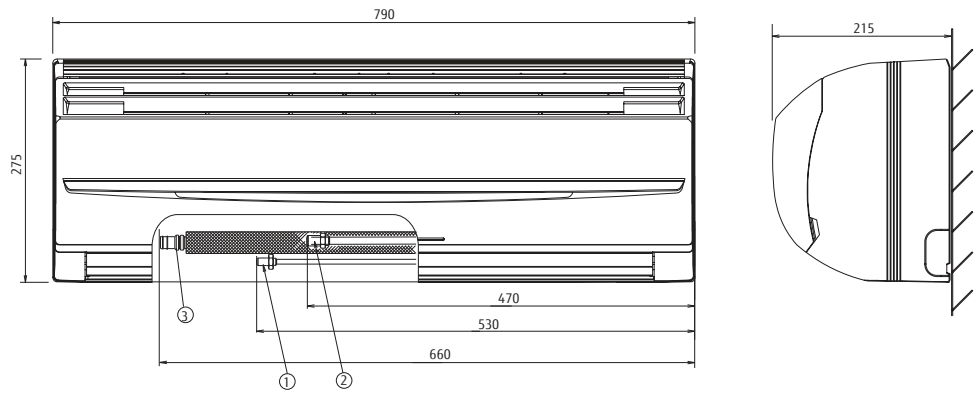
Model name			ASYA07GACH	ASYA09GACH	ASYA12GACH	ASYA14GACH
Power source			Single - phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h	7,500	9,600	12,300	15,400
	Cooling T2		7,848	9,895	12,966	16,036
	Heating		9,600	10,900	14,000	17,100
Input power		W	17	18	22	34
Airflow rate	High	m^3/h	490	500	560	670
	Med		450	450	480	490
	Low		370/420*	370/420*	420	420
Sound pressure level	High	dB (A)	35	36	39	44
	Med		33	33	35	37
	Low		27/31*	27/31*	31	32
Dimensions (H × W × D)		mm	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215
Weight		kg	9	9	9	9
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35
	Gas (Flare)		12.70	12.70	12.70	12.70
Drain hose diameter (I.D./O.D.)			13.8 / 15.8 to 16.7			

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

*: This value is under cooling operation.

Dimensions

(Unit : mm)



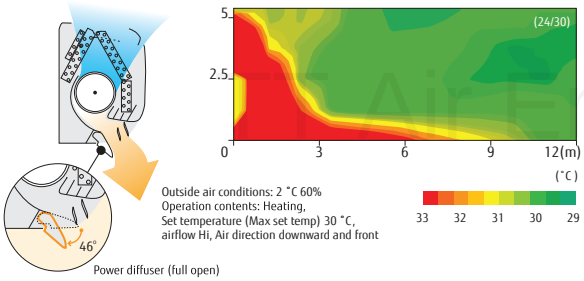
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Wall Mounted

DC FAN

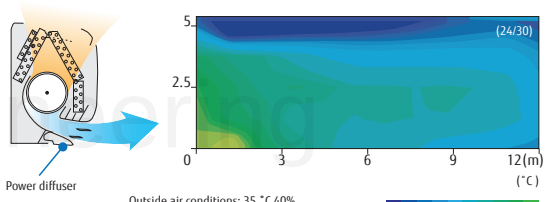
More comfort airflow by adopting power diffuser

"Vertical airflow"
provides powerful floor level heating



Outside air conditions: 2 °C 60%
Operation contents: Heating,
Set temperature (Max set temp) 30 °C,
airflow Hi, Air direction downward and front

"Horizontal airflow" does not blow cool air
directly at the occupants in the room

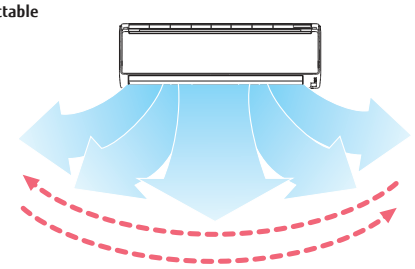


Outside air conditions: 35 °C 40%
Operation contents: Cooling,
Set temperature (Min set temp) 18 °C,
airflow Hi, Air direction downward and front

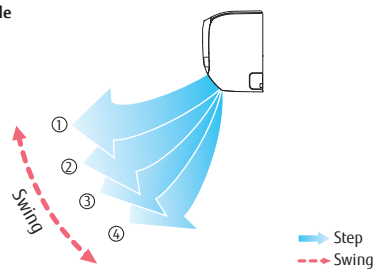
Double auto swing

A combination of up/down and right/left directional swing allows three-dimensional air direction control.

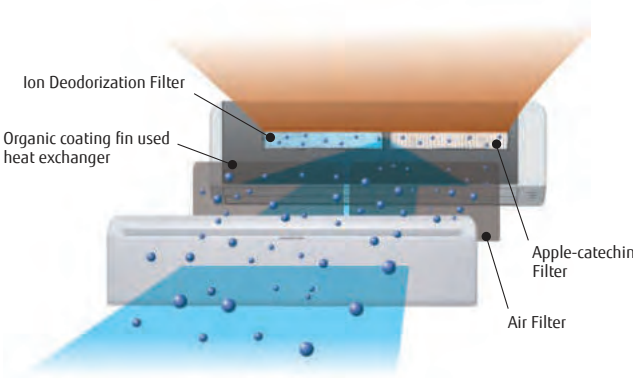
5 steps selectable



4 steps selectable



Air conditioner filter features



High quality air conditioning by incorporation of high performance filter.

Ion Deodorization Filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

Apple-catechin Filter

Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

Model : ASYA18GACH / ASYA24GACH / ASYA30GACH

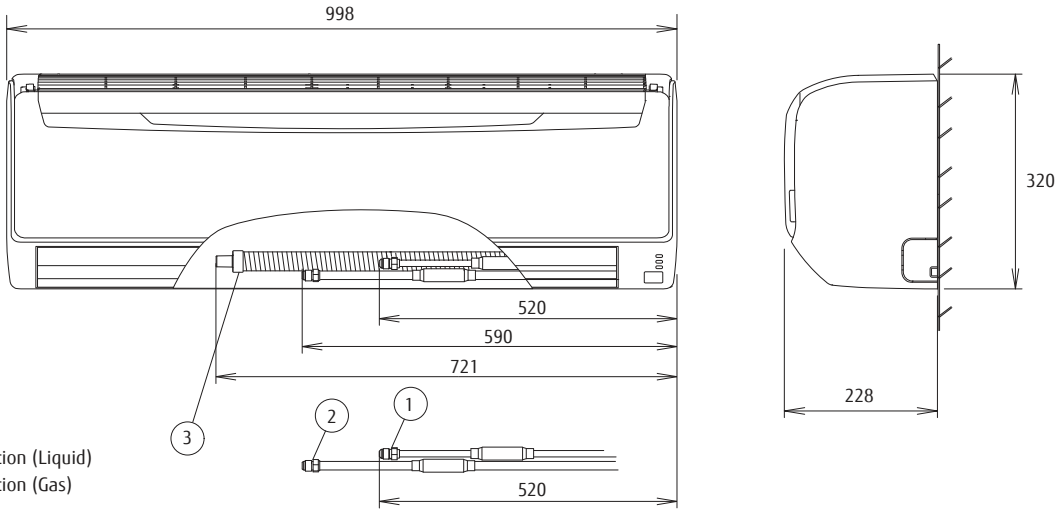
Specifications

Model name			ASYA18GACH	ASYA24GACH	ASYA30GACH
Power source			Single - phase, ~230V, 50Hz		
Capacity	Cooling	BTU/h	19,100	24,200	27,300
	Cooling T2		19,790	25,249	28,320
	Heating		21,500	27,300	30,700
Input power		W	32	60	91
Airflow rate	High	m³/h	840	1100	1240
	Med		770	910	980
	Low		690	730	770
Sound pressure level	High	dB (A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H × W × D)		mm	320 × 998 × 228	320 × 998 × 228	320 × 998 × 228
Weight		kg	15	15	15
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			12 / 16		

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Dimensions

(Unit : mm)



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

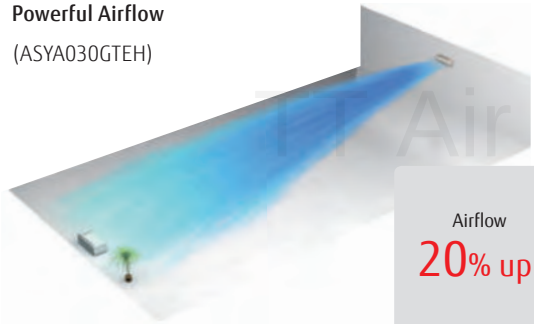
Wall Mounted

DC FAN

Powerful & Comfort airflow

Powerful Airflow

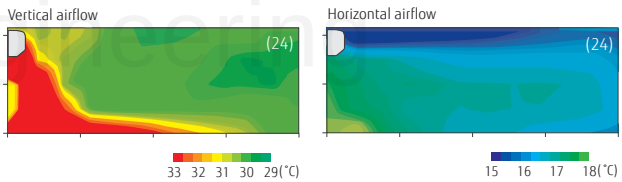
(ASYA030GTEH)



Airflow
20% up!

Power diffuser

(ASYA18/24GBCH)

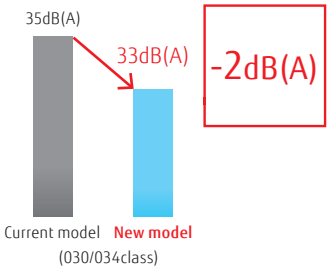


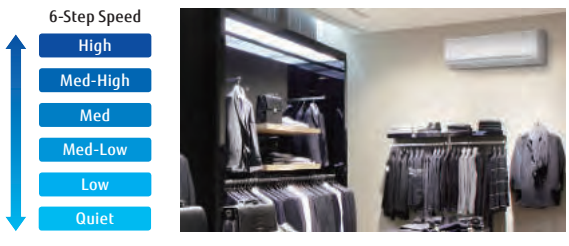
Human sensor (ASYA030/034GTEH only)

A human sensor senses the movement of humans to reduce operation when one is in the room. the energy consumption is reduced automatically to keep down electricity bills.
(Available to wired remote controller as UTY-RNRYZ3)

Quiet operation & 6 Fan speed control

Drastic low noise is achieved by new airflow structure. In addition, multistep quiet operation is available by 6-step sound level settings.





* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-ALGXZ1/UTY-APGXZ1

Model : ASYA18GBCH / ASYA24GBCH

ASYA030GTEH / ASYA034GTEH

ASYA18/24GBCH

ASYA030/034GTEH

Specifications

Model name			ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH
Power source			Single phase, ~230V, 50Hz		Single phase, ~230V, 50Hz	
Capacity	Cooling	BTU/h	19,100	24,200	30,700	34,100
	Cooling T2		19,790	25,249	32,073	35,485
	Heating		21,500	27,300	34,100	38,200
Input power		W	32	60	74	103
Airflow rate	High	m^3/h	840	1,100	1,440	1,620 / 1,520
	Med-High		-	-	1,200	1,300
	Med		770	910	1,050	1,120
	Med-Low		-	-	940	980
	Low		690	730	890	890
	Quiet		-	-	700	700
Sound pressure level	High	dB(A)	41	48	53	55 / 54
	Med-High		-	-	49	51
	Med		39	43	45	47
	Med-Low		-	-	42	43
	Low		35	35	39	39
	Quiet		-	-	33	33
Net Dimensions (H × W × D)		mm	320 × 998 × 238	320 × 998 × 238	340 × 1,150 × 280	340 × 1,150 × 280
Weight		kg(lbs)	15 (33)	15 (33)	18 (40)	18 (40)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			12/16		13.8/15.8 to16.7	

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Cooling T2 : Indoor temperature of 27˚CDB / 19.5˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When ASYA18GBCH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

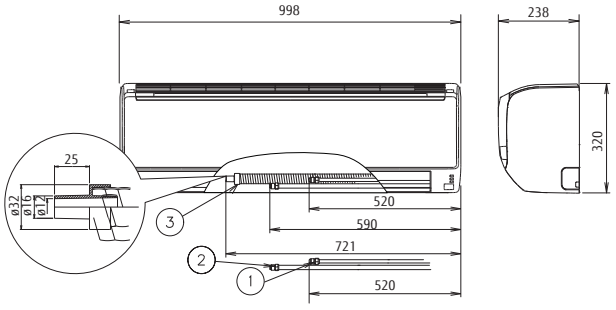
Optional parts

External Power Supply Unit : UTZ-GXXA (030/034)
Wireless LAN Interface : UTY-TFSXZ1 (030/034)

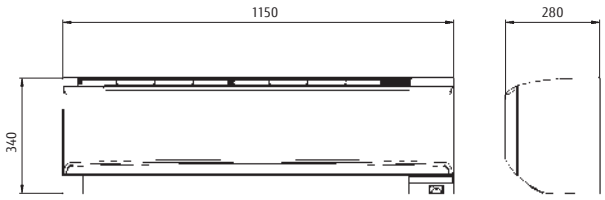
Dimensions

(Unit : mm)

Models: ASYA18 / ASYA24



Models: ASYA030 / ASYA034



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Residential, Commercial & Light Commercial

VENTILATION

Airflow rate (CMH)	1080			1680			2100			
Connectable capacity class (kW)	14.0			22.4			28.0			
Outdoor Air Unit	 ARXH054			 ARXH072			 ARXH096			
Connectable capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
DX-Kit for Air Handing Applications for VRF Outdoor Unit	 EEV unit UTP-VX30A	 Control unit UTY-VDGX		 EEV unit UTP-VX60A	 Control unit UTY-VDGX		 EEV unit UTP-VX90A	 Control unit UTY-VDGX	 EEV unit UTP-VX90A×2	 Control unit UTY-VDGX

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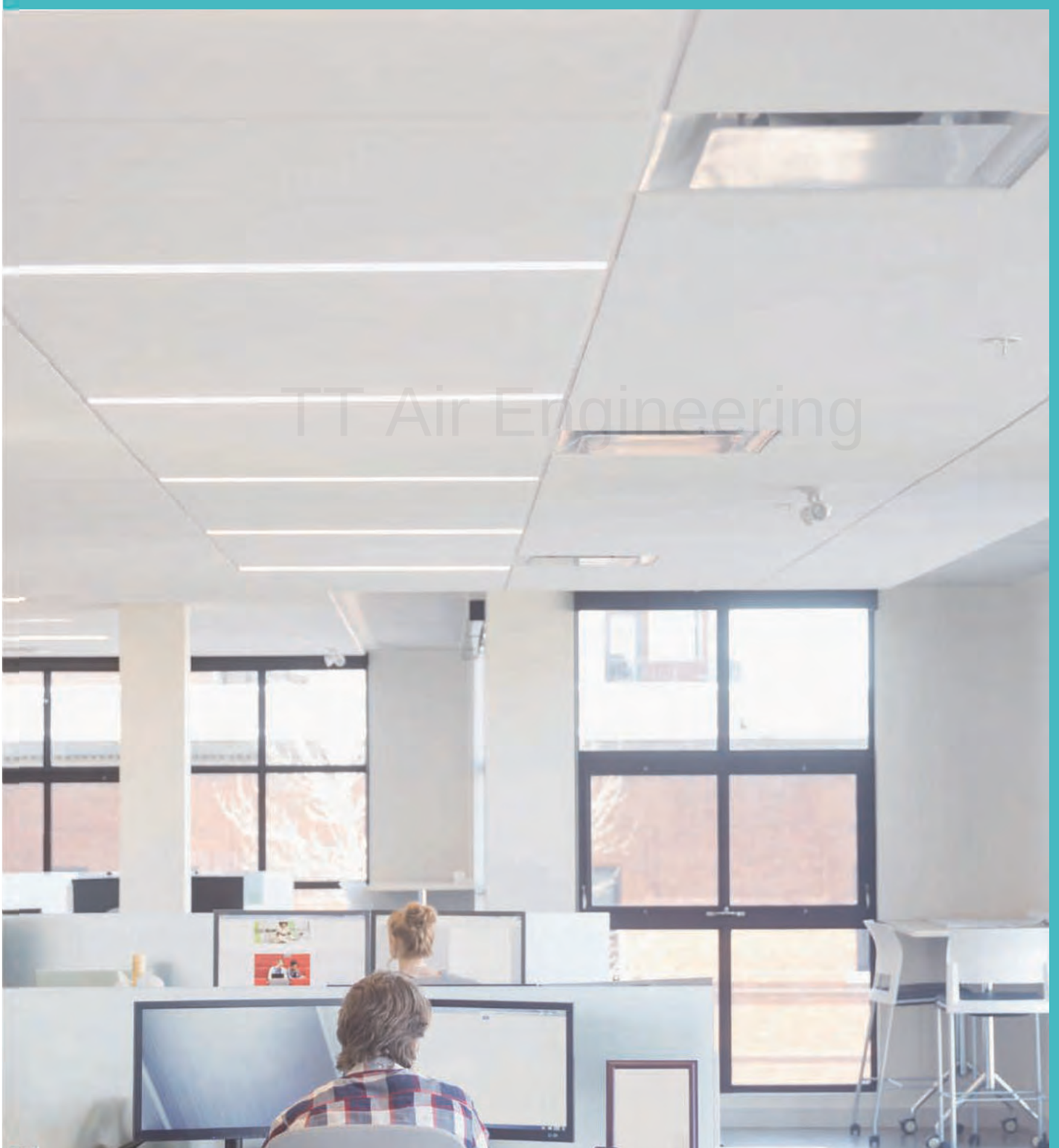
Effective heat exchange and simultaneous fresh air ventilation

High Efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.



Outdoor Air Unit **Production by order**

Models

ARXH054GTAH
ARXH072GTAH
ARXH096GTAH

The heat pump method efficiently processes the outdoor air for cooling and heating and supplies 100% fresh air into a room.

ARXH054GTAH

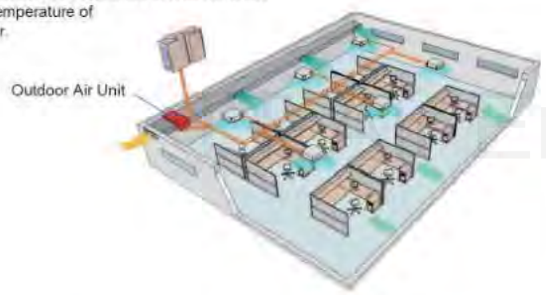
ARXH072GTAH

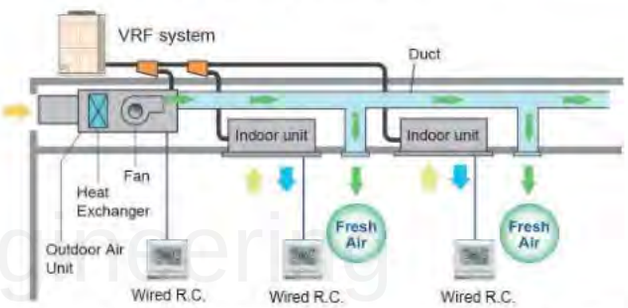
ARXH096GTAH

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

Outdoor Air Unit can be connected in a same VRF*1 system as one of indoor unit series and can create fresh and comfortable air supply together from our high advanced technology.

*1. Connectable VRF series:J-IIS, J-II, V-II, VR-II tropical
In J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.





* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor Air Unit connection capacity 30% or less of the outdoor unit capacity.

Specifications

(Tentative)

Rated flow rate			1000 m³/h	1500 m³/h	2000 m³/h
Model No.			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source			230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating		8.9	13.9	17.4
Input Power	Cooling / Heating	W	179	292	370
Airflow Rate		m³/h	1,080	1,680	2,100
Static Pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound Pressure Level		dB (A)	42	44	47
Dimensions (H x W x D)		mm	425×1,367×572	425×1,367×572	450×1,583×700
Weight		kg	48	55	71
Connection Pipe Diameter (Small / Large)		mm	Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22
Operation Range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

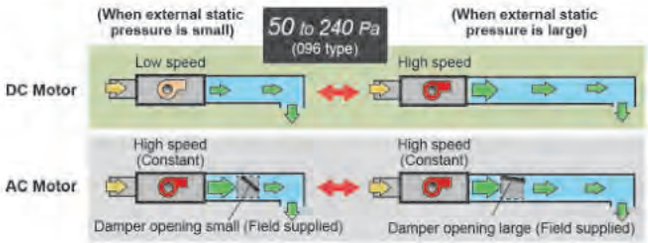
Note : Specifications are based on the following conditions.
Cooling : Outdoor temperature of 33°CDB / 28°CWB.
Heating : Outdoor temperature of 0°CDB / -2.9°CWB.
Pipe length : 7.5 m Voltage : 230 [V]

High energy savings and flexible duct design by using DC motor

- Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.

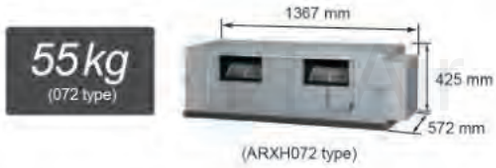
054 / 072 type 096 type

- Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.
- Static pressure can be set easily using wired remote controller.



Top class compact design

- Top class lightweight compact design at just 425 mm in height, 55 kg in weight for ARXH072 type. This unit can be installed easily even at narrow space.



Various Controller

Supplied variety of controllers as options, such as individual controller, central controller, and building management controller.

Individual Controller

Central Controller

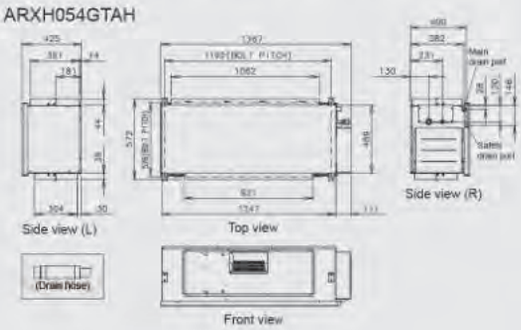
* The temperature setting is discharged air temperature setting
The air volume is set to a constant speed.

VENTILATION

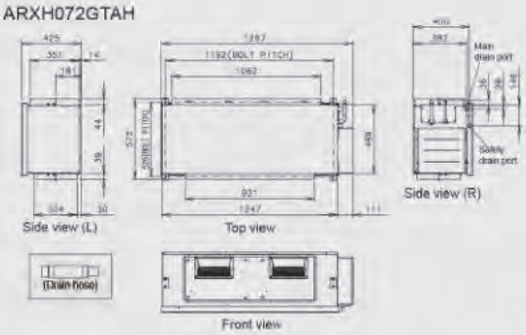
Dimensions (Unit : mm)

Models: ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

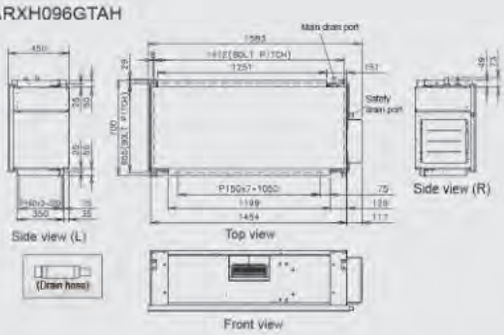
ARXH054GTAH



ARXH072GTAH



ARXH096GTAH



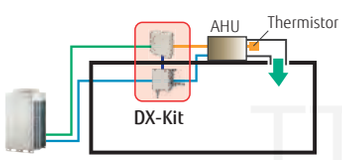
DX-Kit

for Air Handling Application

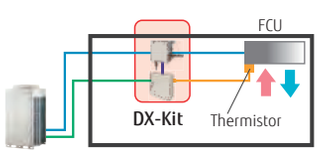
for VRF Outdoor Unit

These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

Multiple temperature sensors optimally control the air handling unit and fan coil unit.

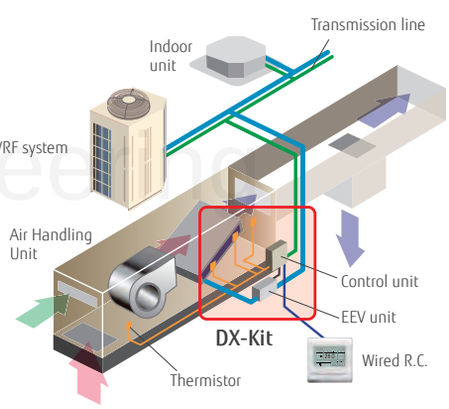


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



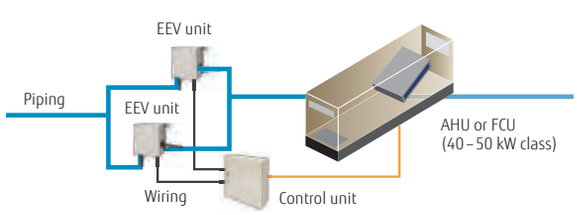
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



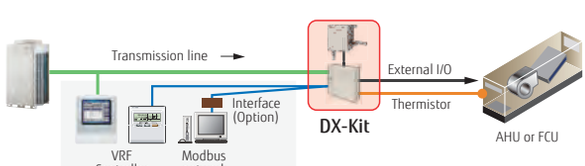
Supports a wide range of capacity classes

- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units. (Separation Tube of UTP-LX180A is required.)
- Connectable capacity range: 5 kW to 50 kW

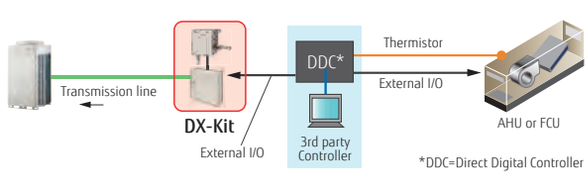


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



Functions Summary

Inputs

- ON/OFF
- Setting 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

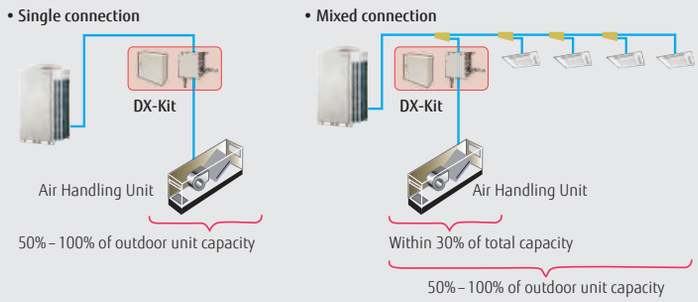
MODBUS® Control

Possible to control via a MODBUS enabled BMS by using optional interface.

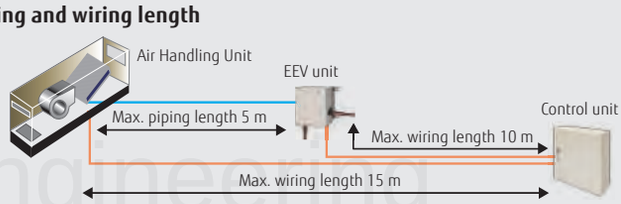
Installation Limitation

- Connectable VRF series: All VRF series
- 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: 10 m
- Max. piping length between EEV unit and indoor unit: 5 m
- Outdoor installation: Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

Connectable capacity



Piping and wiring length



For 2 EEV units connection (option)
Separation Tube: UTP-LX180A

Control unit: UTY-VDGX
EEV unit: UTP-VX30A / UTP-VX60A / UTP-VX90A


EEV unit
UTP-VX30A


EEV unit
UTP-VX60A


EEV unit
UTP-VX90A


Control unit
UTY-VDGX

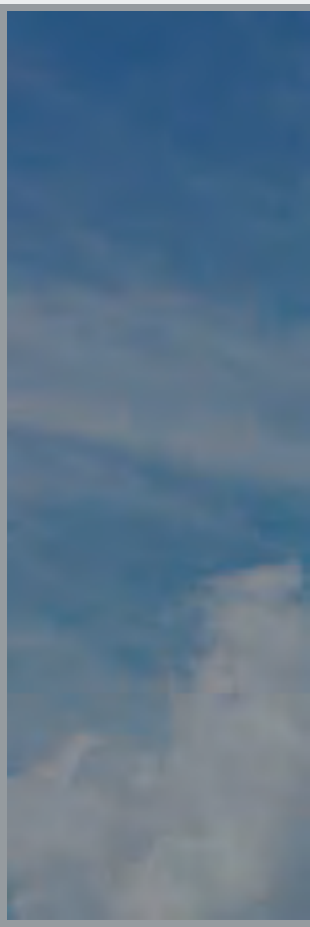
Specifications

Connectable Capacity class			5.0 kW	6.3 kW	8.0 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW	40.0 kW	50.0 kW
Capacity	Cooling	kW	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating		6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5

Control unit		UTY-VDGX
Power source	V/Ø/Hz	230/1/50
Dimensions (H × W × D)	mm	400 × 400 × 120

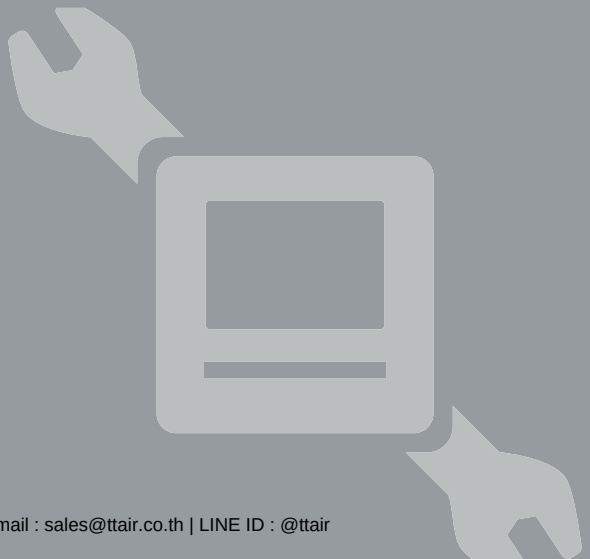
EEV unit		UTP-VX30A	UTP-VX60A	UTP-VX90A	UTP-VX90A×2
Connection pipe diameter (Liquid)	mm	Ø9.53	Ø12.70	Ø12.70	Ø12.70
Dimensions (H × W × D)		160 × 220 × 90			

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m Voltage : 230 [V].



Light Commercial & Commercial, Residential

CONTROL SYSTEM
& OPTIONAL PARTS



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 Control

Wired Remote Controller
(Touch panel)
UTY-RNRYZ3

Wired Remote Controller
UTY-RLRY

Compact Wired Remote Controller
UTY-RCRYZ1

Simple Remote Controller
UTY-RSRY
UTY-RHRY
Without operation mode

Wireless Remote Controller
UTY-LNHY

For Duct

For 1-Way Flow Cassette/ 3D Flow Cassette/ Duct

For Cassette

For Circular Flow Cassette

IR Receiver Unit

UTB-YWC For Duct

UTY-TRHX
For 1-Way Flow Cassette
3D Flow Cassette/Duct

UTY-LRHYB1 For Cassette
UTY-LBHXD
For Circular Flow Cassette

Air Conditioning
Centralized Control

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

Maximum Controllable 1600*2 indoor units

*1: USB Adaptor: Echelon® U10 USB Network Interface
*2: Lite edition is max. controllable 400 indoor units

Touch Panel Controller
UTY-DTGYZ1

Maximum Controllable 400 indoor units

Central Remote Controller
UTY-DCGYZ1

Maximum Controllable 100 indoor units

Convertor/Adaptor

For external control via BMS/Home Automation Systems

BACnet® Gateway
UTY-ABGXZ1 (Software)

BACnet® Gateway
(Hardware)

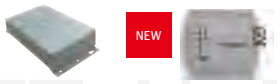
NEW

Network Convertor
(For LONWORKS®)
UTY-VLGX

MODBUS® Convertor
For indoor unit
UTY-VMSX

MODBUS® Convertor

NEW



KNX® Convertor
For indoor unit
UTY-VKSX

KNX® Convertor
For VRF

NEW

Wireless LAN Interface
UTY-TFSXZ1

External Switch Controller
UTY-TERX

Card-key
(Locally purchased)

Internet device

BMS/BAS[*3]

BMS[*3], **Home automation system**

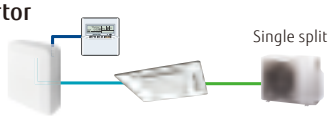
or

*3: BMS/BAS: Building Management System/Building Automation System

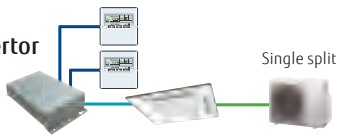
Convertor/Adaptor

For system expansion

Network Convertor
(DC power supply)
UTY-VTGX



Network Convertor
(AC power supply)
UTY-VTGXV



Signal Amplifier
UTY-VSGXZ1

Comparison Table of Controllers

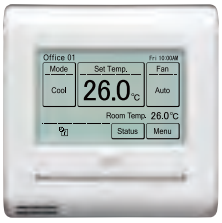
Item								
			Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller
Model name			UTY-RNRYZ3	UTY-RLRY	UTY-RVNYM	UTY-RCRYZ1	UTY-RSNYM	UTY-RSRY
Max. controllable remote controller groups			1	1	1	1	1	1
Max. controllable indoor units			16	16	16	1	16	16
Max. controllable groups			–	–	–	–	–	–
Air conditioning control function	On / Off		●	●	●	●	●	●
	Operation mode setting		●	●	●	●	●	●
	Fan speed setting		●	●	●	●	●	●
	Room temp. setting		●	●	●	●	●	●
	Room temp. set point limitation		●	●	●	–	–	●
	Test operation		●	●	●	●	●	●
	Up/down air direction flap setting		●	●	●	●	–	●
	Right/left air direction flap setting		●	●	●	●	–	–
	Individual louver control		●	–	–	●	–	–
	Group setting		–	–	–	–	–	–
	RC prohibition		–	–	–	–	–	–
	Anti freeze setting		●	–	–	●	–	–
	Set temp. auto return		●	●	●	–	–	–
	Economy mode setting		●	●	●	●	–	–
	Human sensor control		●	–	–	–	–	–
Display	Error		●	●	●	●	●	●
	Defrosting		●	●	●	●	●	●
	Current time		●	●	●	–	–	–
	Day of week		●	●	●	–	–	–
	R.C. prohibition		●	●	●	●	●	●
	Address display		●	●	●	●	●	●
	Room temp		●	–	●	●	–	●
	Multi language		●	–	●	–	–	–
	Summer time		●	–	●	–	–	–
	Name registration		●	–	–	–	–	–
	Backlight		●	–	●	●	●	●
	2D floor layout / 3D building display		–	–	–	–	–	–
	Refrigerant leakage detection function		–	–	–	–	–	–
Timer	Schedule timer	Period	Week	Week	Week	–	–	–
		On/off, Temp, Mode, Times per day	8	4	8	–	–	–
	On/off timer		●	●	●	●(OFF only)	–	–
	Sleep timer		–	–	–	–	–	–
	Program timer		–	–	–	–	–	–
	Auto off timer		●	●	●	–	–	–
	Day off		●	●	●	–	–	–
	Min. unit of timer setting (Minutes)		10 • 30	30	30	–	–	–
Control	Status monitoring system		–	–	–	–	–	–
	Electricity charge apportionment		–	–	–	–	–	–
	Error history		●	●	●	–	–	–
	Emergency stop		–	–	–	–	–	–
	Remote management		–	–	–	–	–	–
	Energy saving management		–	–	–	–	–	–
	E-mail notification for malfunction		–	–	–	–	–	–
	Key lock		● Child lock	● Child lock	● Child lock	–	–	–
	Low noise mode		–	–	–	–	–	–

								
	Simple Remote Controller*1	Wireless Remote Controller	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Central Remote Controller	Touch Panel Controller	System Controller Lite Software	System Controller Software
	UTY-RHRY	UTY-LNHY	UTY-LNTY	UTY-DMMYM	UTY-DCGYZ1	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
	1	1	1	1	100	400	400	1600
	16	16	16	8	100	400	400	1600
	–	–	–	–	50	400	400	1600
	●	●	●	●	●	●	●	●
	–	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	–	–	–	●	●	●	●
	●	●	●	–	–	●	–	–
	●	●	●	–	●	●	●	●
	–	●	–	–	●	●	●	●
	–	–	–	–	●*3	●	–	–
	–	–	–	–	●	●	●	●
	–	–	–	●	●	●	●	●
	–	–	–	–	●	●	●	●
	–	–	–	–	–	●	–	–
	–	●	●	●	●	●	●	●
	–	–	–	●	–	●	●	●
	●	–	–	●	●	●	●	●
	●	–	–	–	●	●	●	●
	–	●	●	●	●	●	●	●
	–	–	–	–	●	●	●	●
	●	–	–	●	●	●	●	●
	●	–	–	–	–	●	●	●
	●	–	–	–	●*4	●*4	●*4	●*4
	–	–	–	●	●	●	●	●
	–	–	–	●	●	●	●	●
	–	–	–	–	●	●	●	●
	●	–	–	●	●	●	–	–
	–	–	–	–	–	–	–	●
	–	–	–	–	●	●	●	●
	–	–	–	Week	Week	Year	Year	Year
	–	–	–	4	20	20	144	144
	–	●	●	–	–	–	–	–
	–	●	●	–	–	–	–	–
	–	●	●	–	–	–	–	–
	–	–	–	–	●	●	–	–
	–	–	–	●	●	●	●	●
	–	5	5	5	10	10	10	10
	–	–	–	–	●	●	●	●
	–	–	–	–	–	○	○	●
	–	–	–	–	●	●	●	●
	–	–	–	–	●*2	●*2	–	–
	–	–	–	–	●	●	○	●
	–	–	–	–	–	–	○	○
	–	–	–	–	●	●	●	●
	–	–	–	● Child lock	● Password setting	● Password setting	● Password setting	● Password setting
	–	–	–	●	–	●	●	●

*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input control.
*3 Only individual airflow batch reset is mounted. *4 This function is available only when using wired remote controller.
●: Supported ○: Optional function –: Not supported yet

Wired Remote Controller (Touch Panel)

UTY-RNRYZ3



Maximum Controllable
16 indoor units

Maximum Controllable
1 Group

Easy operation by high-definition large STN-LCD touch panel screen

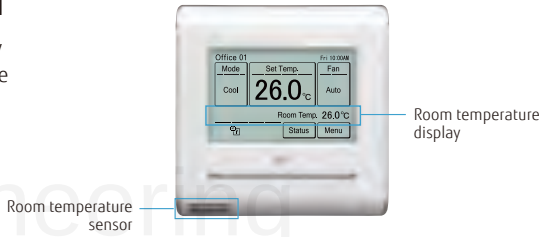
- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer (ON/OFF, Temp., Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)
- 2-wire type

High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using one remote controller only.

Accurate and comfortable control

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



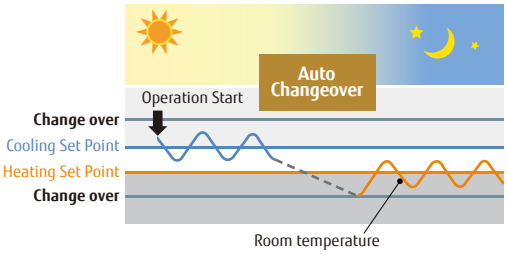
Various energy saving control

Custom Auto

- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

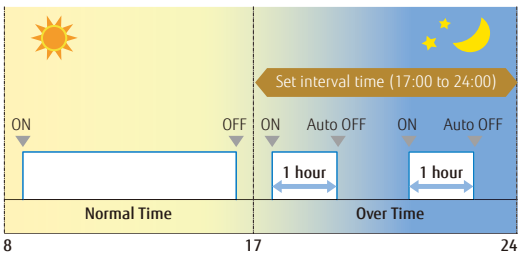
* This function is not available for some models.

Cooling set temp. 27°C, Heating set temp. 26°C



Auto OFF timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes



Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RNRYZ3
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY

- Various timer setup (ON / OFF / WEEKLY) are possible.
- The room temperature can be controlled by detecting the temperature accurately with Built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history. (Last 16 error codes can be accessed.)
- 2-wire type

Maximum Controllable
16 indoor units
Maximum Controllable
1 Group

High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using only one remote controller.

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

High visibility and easy operation

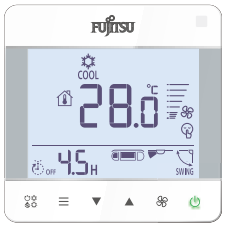
- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.

Set contents can be displayed clearer with large LCD.

Sophisticated control buttons
Simple operation with easy 4-way navigation pad

Compact Wired Remote Controller

UTY-RCRYZ1

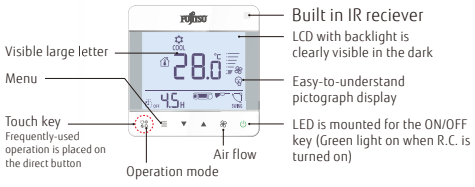


- Simple design to match the stylish interior
- Easy to install : Body of controller is designed to fit in European standard junction box
- Can be operated both by wireless and wired remote controller.
- 2-wire type

Maximum Controllable
1 single indoor unit
Maximum Controllable
1 Group

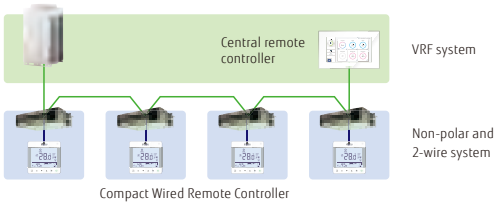
Large screen and simple display

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand

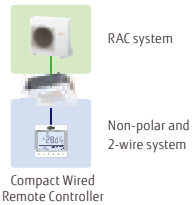


System overview

VRF connection



RAC connection



Specifications

Model name	UTY-RLRY	UTY-RCRYZ1
Power Source	DC 12 V	DC12V
Dimensions (H × W × D) (mm)	120 × 120 × 17	86 × 86 × 44
Weight (g)	170	135

DC 12 V is supplied by the indoor unit.

Simple Remote Controller

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

UTY-RSRY

UTY-RHRY (Without operation mode)

Compact remote controller provides access to basic functions

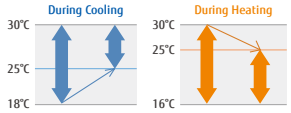
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight on monitor enable easy operation in dark.
- 2-wire type

Maximum Controllable
16 indoor units
Maximum Controllable
1 Group

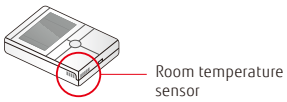
Corresponding to various applications

- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.

- **Room temperature set point limitation:** The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.



- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



Simple Remote Controller

UTY-RSNYM, UTY-RSKY/UTY-RHKY (Without operation mode)

UTY-RSNYM
UTY-RSKY

UTY-RHKY (Without operation mode)

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Backlight enables easy operation in a darkened room.
- 3-wire type

Easy-to-use operation

- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room temperature setting.
- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error display, diagnostics can be carried out on the controller.

Maximum Controllable
16 indoor units
Maximum Controllable
1 Group

Specifications

Model name	UTY-RSRY	UTY-RHRY	UTY-RSNYM, UTY-RSKY	UTY-RHKY
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90

DC 12 V is supplied by the indoor unit.

BACnet® Gateway

FG-AC-BAC1Z1

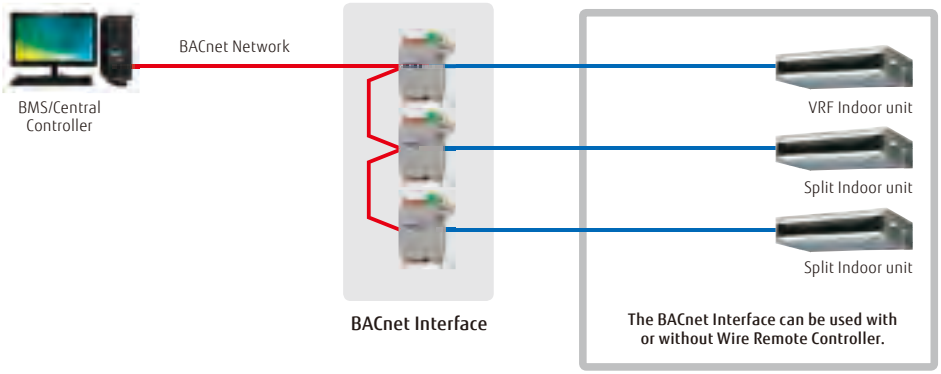
NEW

FG-AC-BAC1Z1
(CN connector type)

Maximum Controllable
1 indoor units

- BACnet® Gateway enables to connect a BMS and Fujitsu General split/multi-split/VRF system.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

Installation example



External Switch Controller

UTY-TERX

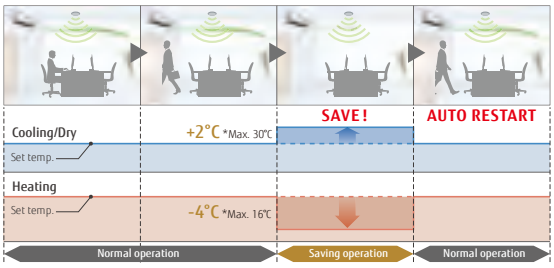
Maximum Controllable
1 group

Air conditioner switching can be controlled by connecting other sensor switches

- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a locally purchased parts.
- The set temperature can be specified at two points for cooling and heating individually (4 points).

Installation example

Human sensor catches movements of people in a room, and operates with lower capacity when people come back to the room, it automatically returns to previous operation mode.



Human sensor equipment needs to be purchased locally.
Human sensor is not mounted on the External Switch Controller.

Specifications

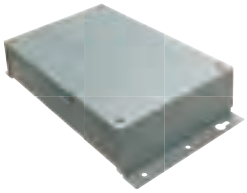
Model name	UTY-TERX	FG-AC-BAC1Z1 (CN connector type)
Power Supply	DC 6.5-16 V	-
Dimensions (H × W × D) (mm)	140 × 117 × 43	93 × 53 × 58
Weight (g)	250	85

DC 12 V is supplied by the indoor unit.

Network Convertor for Single Split

UTY-VTGX / UTY-VTGXV

UTY-VTGX
DC power supply type

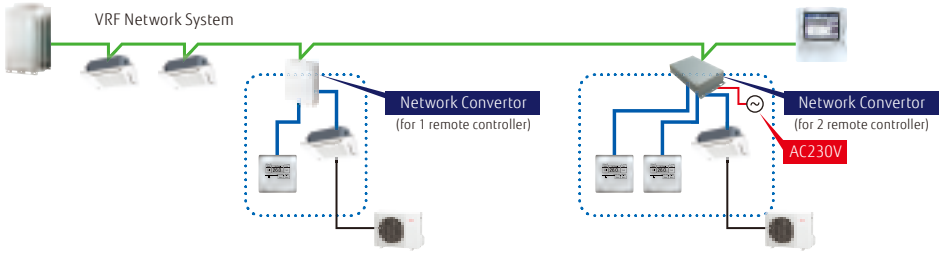


UTY-VTGXV
AC power supply type

- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

Installation example.

- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.

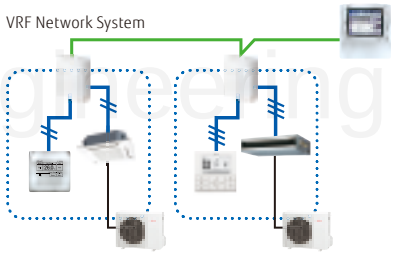


Maximum Controllable
16
single indoor units

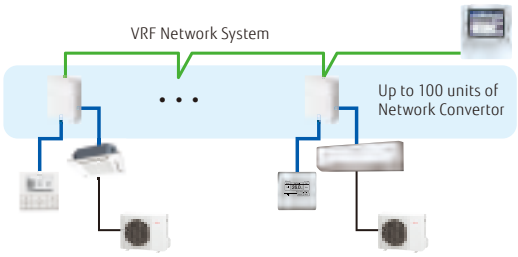
Maximum Controllable
1 Group

Maximum Controllable
100
Network Convertors

- 2-wire and 3-wire type of the wired remote controller can be connectable.



- A central control can be provided for the single split systems. (Up to 100 units of Network Convertor is connectable in one VRF network system)



Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power Supply	polar 3-wire DC 12 V	non-polar 2-wire DC 12 V	220-240 V 50/60 Hz
Input power (W)	Max. 1.2		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100

Wireless Remote Controller

UTY-LNHY

Maximum Controllable
16 indoor units

Maximum Controllable
1 Group

Selectable
4 daily timers

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

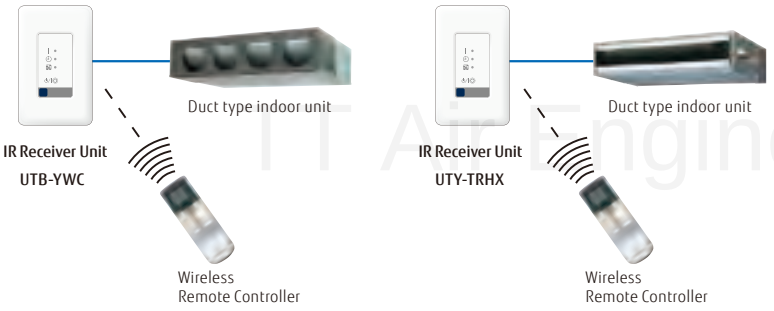
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

IR Receiver Unit for Duct

UTB-YWC, UTY-TRHX



Duct type* indoor units can be controlled with Wireless Remote Controller

*Only Large Airflow Duct can not be connected to IR Receiver Unit.

*The wireless remote controller (Model: UTY-LNHY) is necessary separately

IR Receiver Unit for Cassette

UTY-LRHYB1, UTY-LBHXD, UTY-TRHX

Cassette type indoor unit can be controlled with Wireless Remote Controller

*The wireless remote controller (Model: UTY-LNHY) is necessary separately

Specifications

Model name	UTY-LNHY	UTB-YWC	UTY-LRHYB1	UTY-LBHXD	UTY-TRHX
Battery	1.5 V (R03 / LR03 / AAA)×2	DC 5 V	DC5V	DC5V	DC 5 V
Dimensions (H × W × D) (mm)	170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	145 × 90 × 30
Weight (g)	85	150	140	140	150

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DCGYZ1

For small- and medium-sized buildings and tenants

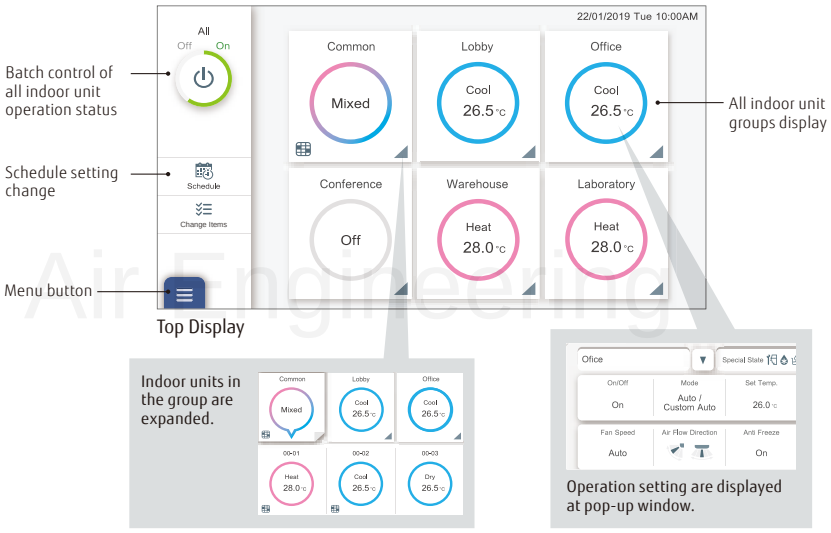
- Individual control and monitor of 100 indoor units
- 7.0inch TFT color screen
- High visibility and easy operation
- Supports 12 different languages (English, Spanish, German, French, Italian, Russian,Portuguese, Turkish, Polish, Greek, Dutch, Chinese)

Maximum Controllable
100 indoor units

Maximum Controllable
50 groups

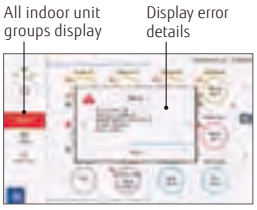
Easy operation

- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top display and the following operations are displayed at pop-up window.



Trouble support function

Display error details
Display descriptive explanation when an error occurs



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

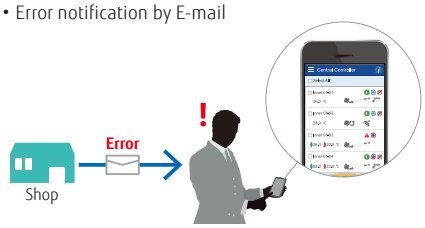
Notify room temperature by email*
Notify by e-mail when the temperature around the air conditioner is too high or too low

*:This function is available only when using wired remote controller.

Remote monitoring / Remote operation

New central remote controller can control your tenant's air conditioner anytime and anywhere.

Example
- Control / Monitoring Fujitsu air conditioner
- Error notification by E-mail



Specifications

Model name	UTY-DCGYZ1
Power Supply	100-240 V 50/60 Hz
Dimensions (H × W × D) (mm)	134.6 × 216.2 × 37.9
Weight (g)	800

Touch Panel Controller

UTY-DTGYZ1

- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Supports 7 different-languages ,English, Chinese, French, German, Spanish, Russian, Polish.
- Mounted with LAN interface for remote control & operation, external input / output with emergency stop and batch ON / OFF

Maximum Controllable
400 indoor units

Maximum Controllable
100 outdoor units

Maximum Controllable
400 groups

Easy Operation

- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon.
- Back color identifies current control operation blue for monitoring, green for operational control.

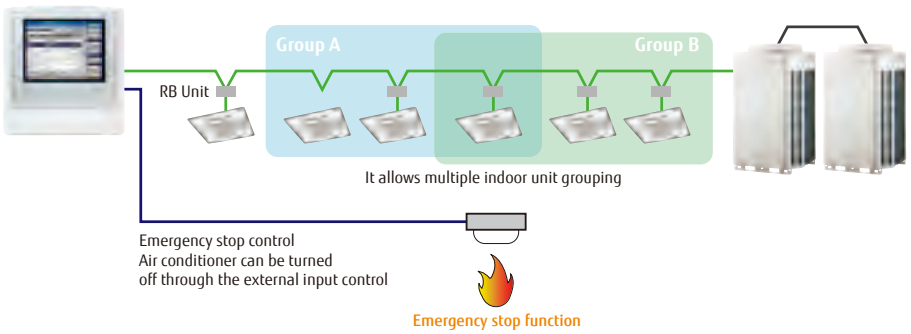
Easy maintenance

- Flat touch screen is easily cleaned
- Non-glare coating on touch panel controller minimizes fingerprint marking
- Easy-to-remove front cover

Easy installation

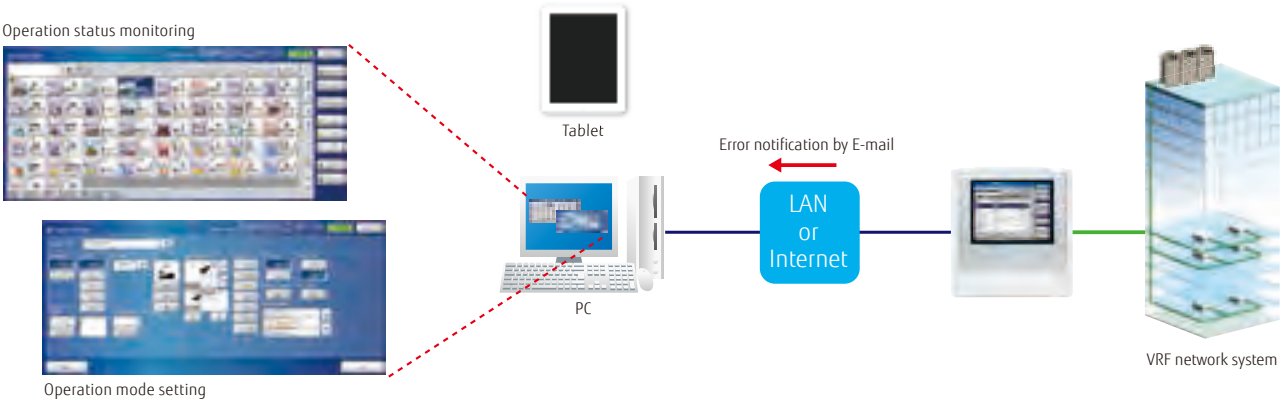
- Touch Panel Controller is easily mounted to the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation

Up to 400 indoor units can be controlled



Control & monitoring

- Control and monitor Fujitsu's air conditioner via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.



Smart Phone

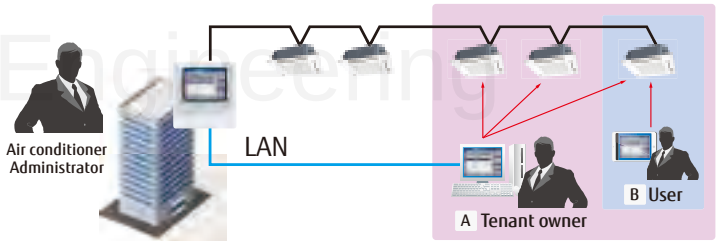
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone 7 (iOS 10.1)	Safari 10

Tablet

Model name	Browser
iPad Pro 9.7 inch (iOS 10.2.1)	Safari 10

Flexible access permission for Point each level user.

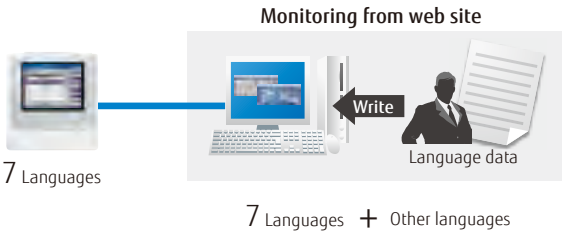
Administrator can register multiple user to permit which indoor unit(s) and which function can access.



A : Account ID for Tenant owner B : Account ID for User

Additional languages function

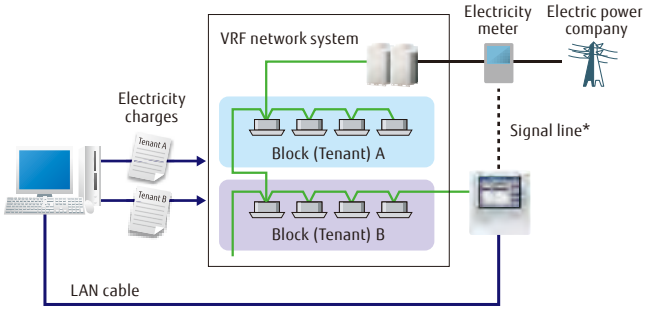
Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard.
Additional language can be integrated on remote device by creating language database.
Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other languages.



Electricity charge apportionment
(Option: UTY-PTGXA)

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.

- 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



*: Electricity meter (1unit) can be connected to external input connector of the TPC unit. In this case, electricity meter cannot be connected to outdoor unit simultaneously.

Features: Touch Panel Controller

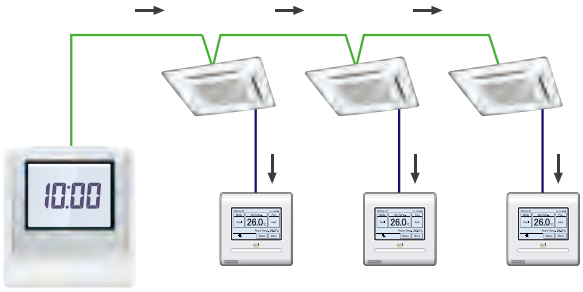
Automatic summer time setting

Providing function

1) Schedule setting of summer time setting
   - It prevents the user from forgetting to set summer time. In addition, it reduces the time and labor of user.

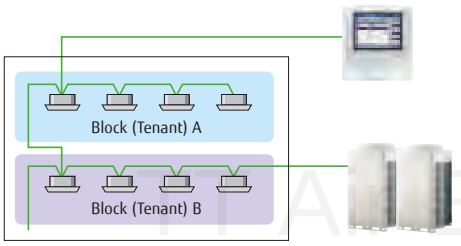
Automatic clock adjustment

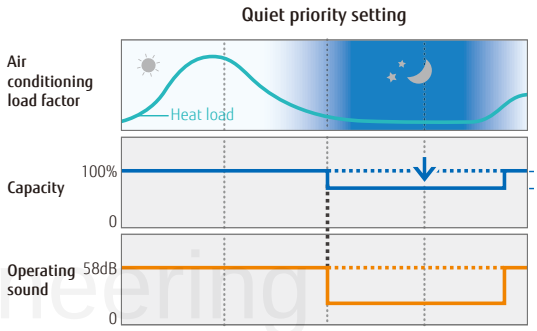
2) The time setting of each controller can be set in batch automatically.



Outdoor low noise operation

Users can choose from 4 low noise levels, depending on the installation environment.
The operation time can be set using the timer.





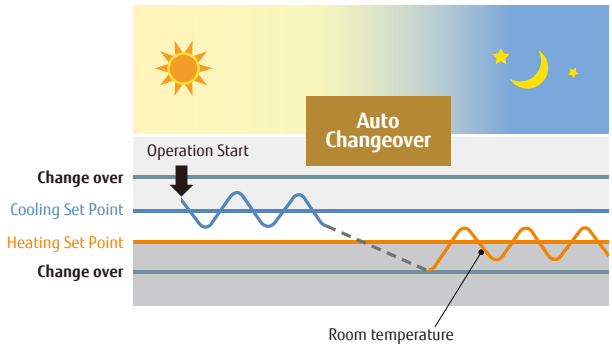
Various energy saving control

Custom Auto

- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* This function is not available for some models.

Cooling set temp. 28℃, Heating set temp. 18℃



Refrigerant leakage detection function

The refrigerant leak condition is indicated by the management equipment, and if refrigerant leakage occurs, it is displayed as a pop-up, the user is notified, and the refrigerant is shut off.

FUNCTIONS SUMMARY

	UTY-DTGYZ1	Monitoring side
Air conditioning control function		
On / Off	●	●
Operation mode setting*	●	●
Fan speed setting	●	●
Room temp. setting	●	●
Room temp. set point limitation	●	●
Test operation	●	●
Up/down air direction flap setting	●	●
Right/left air direction flap setting	●	●
Individual louver control	●*1	●
Group setting	●	●
RC prohibition	●	●
Anti freeze setting	●	●
Set temp. auto return	–	●
Various energy saving control	–	●
Economy mode setting	●	●
Human sensor control	–	●
Display		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
R.C. prohibition	●	●
Cooling/heating priority	●	●
Address display	●	●
Room temp	●*3	●*3
Multi language	●	●
Summer time	●	●
Time zone setting	●	●
Name registration	●	●
Backlight	●	●
Language setting	7	7+other
Filter sign reset	●	●
Memory operation	●	●
Refrigerant leakage detection function	●	●

		UTY-DTGYZ1	Monitoring side
Timer			
Schedule timer	Period	Year	Year
	On/off, Temp, Mode, Times per day	20	20
On/off timer		–	–
Sleep timer		–	–
Program timer		–	–
Auto off timer		–	●
Day off		●	●
Min. unit of timer setting (Minutes)		10	10
Control			
Status monitoring system		●	●
Electricity charge apportionment		○	○
Error history		●	●
Emergency stop		●*2	●*2
Remote management		–	●
Energy saving management		–	–
E-mail notification for malfunction		–	●
Key lock		● Password setting	–
Low noise mode		●	●

●: Supported ○: Optional function –: Not supported yet
*1 Only setting cancellation can be operated.
*2 This function is available only through external input control.
*3 This function is available only when using wired remote controller.

Specifications

Model name	UTY-DTGYZ1
Power Supply	100-240 V 50/60 Hz, Single phase
Dimensions (H × W × D) (mm)	260 × 246 × 54
Weight (g)	2,150
Interface	Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW

System Controller

UTY-APGXZ1 Software

Maximum Controllable
4 VRF network systems

Maximum Controllable
400 outdoor units

Maximum Controllable
1,600 indoor units

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 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 strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

System Controller Lite

UTY-ALGXZ1 Software

Maximum Controllable
1 VRF network system

Maximum Controllable
100 outdoor units

Maximum Controllable
400 indoor units

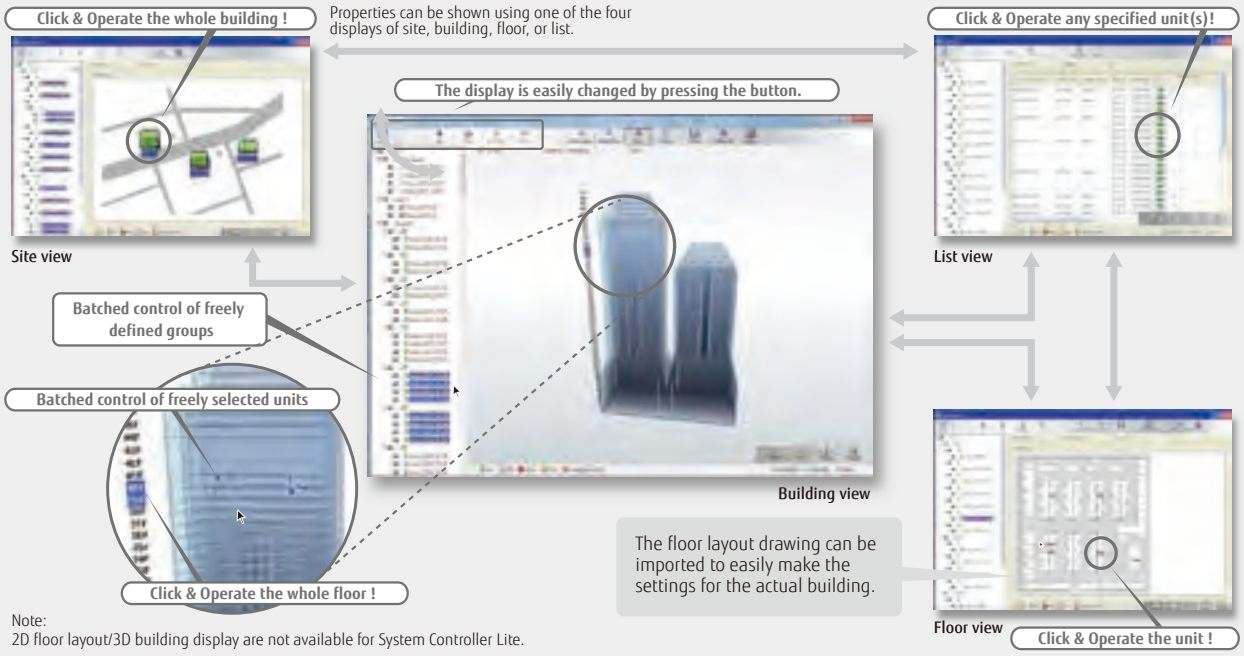
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

High visibility and Easy operation

Click & Operate: The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

Freely define groups for batched control: Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.

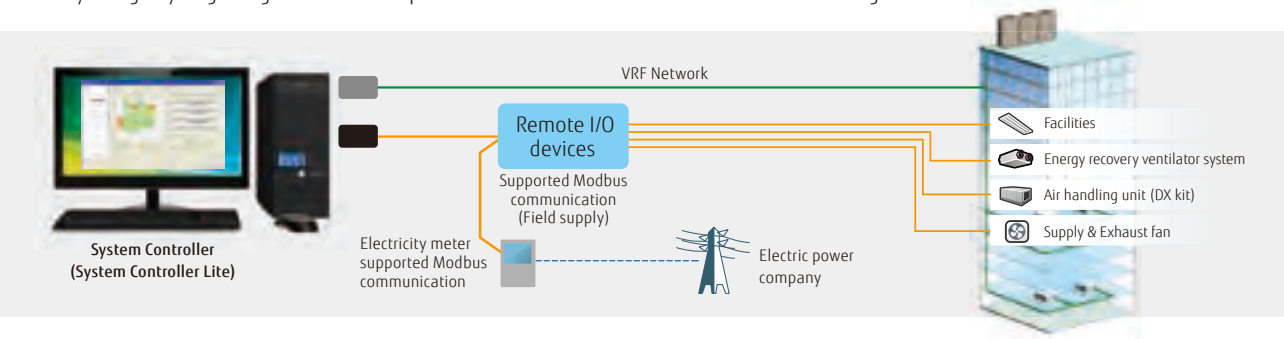


Note:
2D floor layout/3D building display are not available for System Controller Lite.

3rd party devices connected by Modbus can be controlled.

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

When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.



Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

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

Diverse control of indoor unit and outdoor unit

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

Remote controller prohibition

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

Error display & E-mail notification

Error is notified with popup message, audible sound and E-mail real time when error occurs. Errors for the past 1 year are logged and can be reviewed later.

Operating & control record

Displays the history of operation status and control.

Data base import/export

Imports/exports registration data, layout data, and image data. Only the administrator can make this setting.

Automatic clock adjustment

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

Electricity charge apportionment

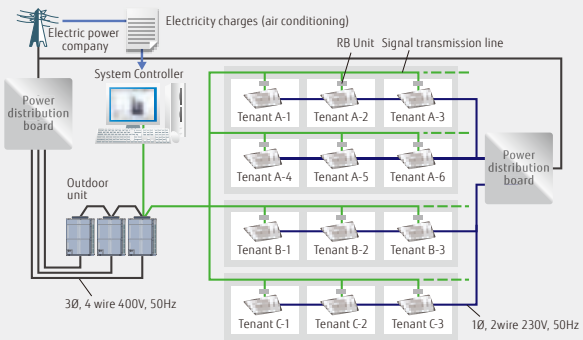
Standard for System Controller

Option for System Controller Lite UTY-PLGXA2

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

System Configuration Example



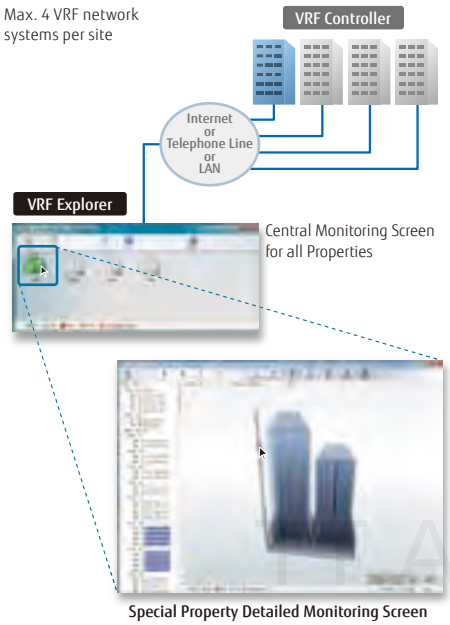
Features: System Controller/System Controller Light

Remote management

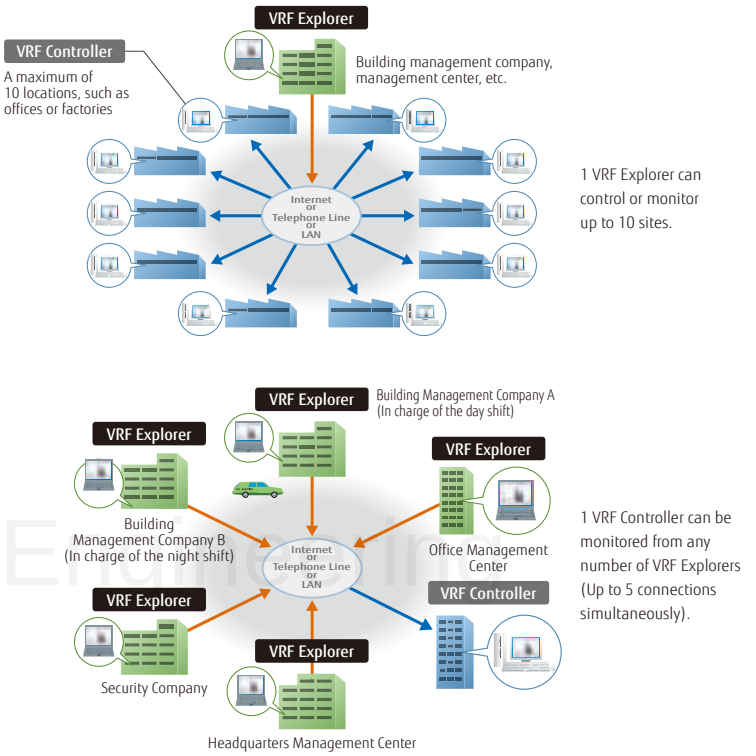
Standard for System Controller
Option for System Controller Lite UTY-PLGXR2

System Controller may be used on site or remotely over various networks for remote central control.
System Controller requires 2 software working together. VRF Controller runs on site and communicate with VRF system.
VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller.
VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network.
By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

On site central control



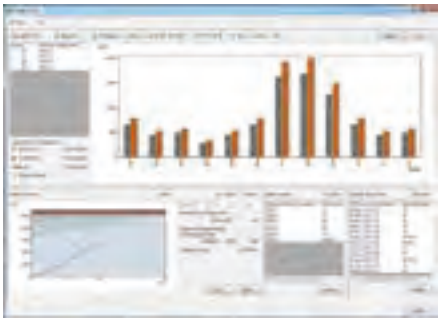
Remote central control



Energy saving management

Option for System Controller UTY-PEGXZ1
Option for System Controller Lite UTY-PLGXE2

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 Management Main Screen

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.

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. The indoor unit operation stoppage rate can be selected.

Peak cut operation

A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.

Outdoor unit capacity save

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. You can select from 50% or more of the capacity upper 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 VRF network		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 e-mail 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	●	–	●	–	–	–	–
		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 management	Web Operation		●	–	●	–	–	–	–
	Remote monitoring		●	–	–	●	–	–	–
	Remote operation control		●	–	–	●	–	–	–
	Remote function setting		●	–	–	●	–	–	–
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	–	–	–	–
	Refrigerant leakage detection function		●	–	●	–	–	–	–
	Power shutdown		●	–	●	–	–	–	–

●●: Available. - : Not available.

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), 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® 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 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port 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 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Acrobat Reader® 9.0 or later	

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

PACKING LIST

Type	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

*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.

BACnet® Gateway

UTY-ABGXZ1 Software

WHITE-USB-KEY
(Software Protection Key)

BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BACnet International.

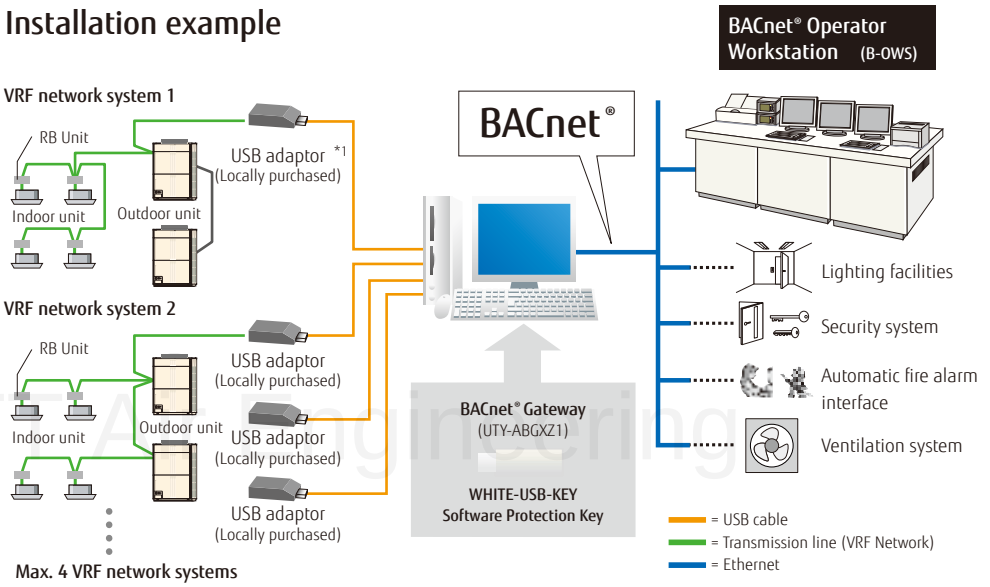
- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2014) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Maximum Controllable
4
VRF network systems

Maximum Controllable
400 outdoor units

Maximum Controllable
1,600 indoor units

Installation example



*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

Personal computer system requirements

	UTY-ABGXZ1
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• 2 GB or more (for 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) • USB ports (Maximum of 5 ports) - 1 USB port is required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Acrobat Reader® 9.0 or later

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

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

BACnet® Gateway

UTY-VBGX Hardware

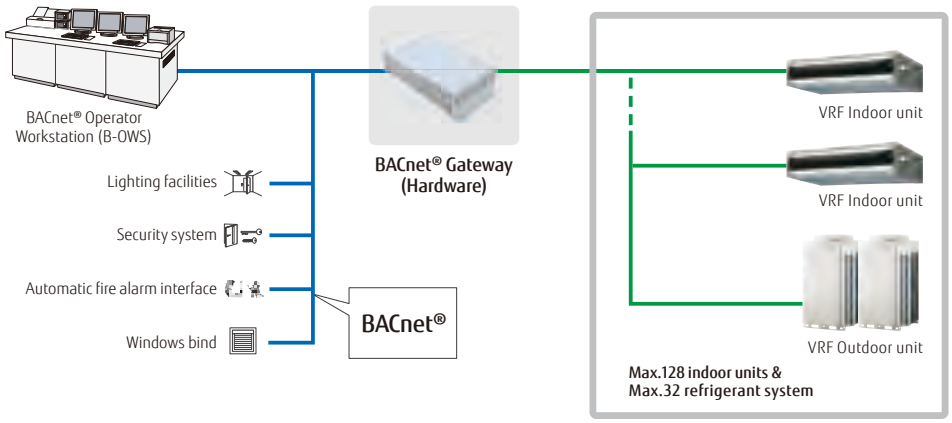
- BACnet® Gateway enables to connect a BMS and Fujitsu General VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over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

Maximum Controllable
1 VRF network system

Maximum Controllable
32 refrigerant systems

Maximum Controllable
128 indoor units

Installation example



Specifications

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

Model name	UTY-VBGX
Power Supply	Single phase, 100-240V, 50/60 Hz
Power Consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1200

Multi Protocol LAN Interfaces

FG-TL-MBS16Z1

NEW

FG-TL-MBS16Z1
(VRF type)

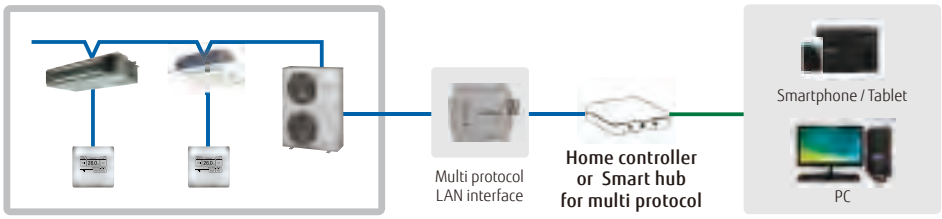
Maximum Connectable
16 indoor units

No separate external power supply required

- Can be used for 16 indoor units.

Installation example

[VRF type]



Specifications

Model name	FG-TL-MBS16Z1 (VRF type)
Power Supply	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	1.7
Dimensions (H × W × D) (mm)	90 × 88 × 56
Weight (g)	330

*Recommended: 24VDC.

BACnet® / MODBUS® Router

FG-RTR-BAC32Z1 / FG-RTR-MBS32Z1

NEW

FG-RTR-BAC32Z1
(BAC net)

NEW

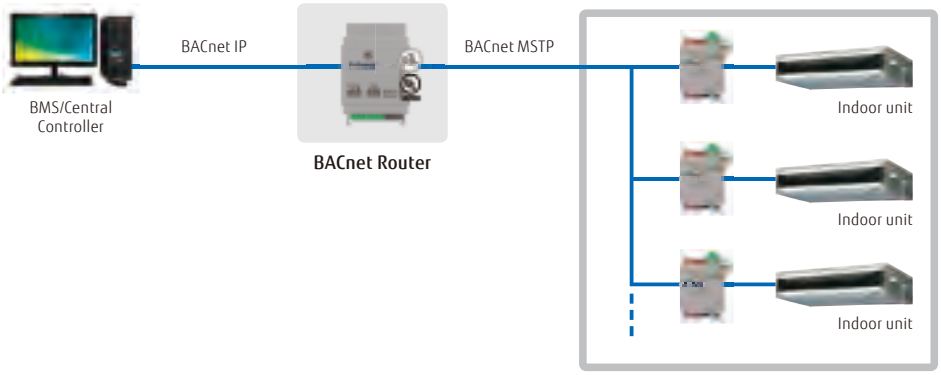
FG-RTR-MBS32Z1
(MODBUS)

Routing between BACnet MS/TP and BACnet IP networks

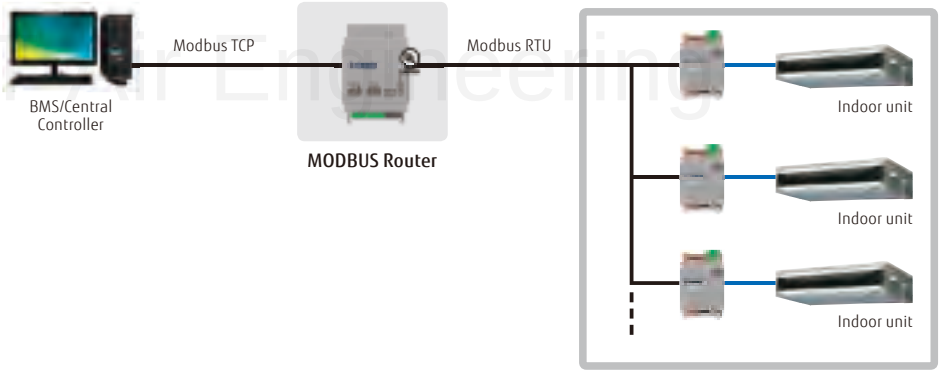
- Routing between BACnet MS/TP and BACnet IP networks
- Routing between Modbus RTU and Modbus TCP networks

Installation example

[BACnet type]



[MODBUS type]



Specifications

Model name	FG-RTR-BAC32Z1 (MS/TP to IP)	FG-RTR-MBS32Z1 (RTU to TCP)
Number of routable devices (max.)	32	32
Power Supply	9-36VDC / 24VAC / 50-60 Hz / 140mA	9-36VDC / 24VAC / 50-60 Hz / 140mA
Power Consumption (W)	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150

BACnet® / MODBUS® Cloud device

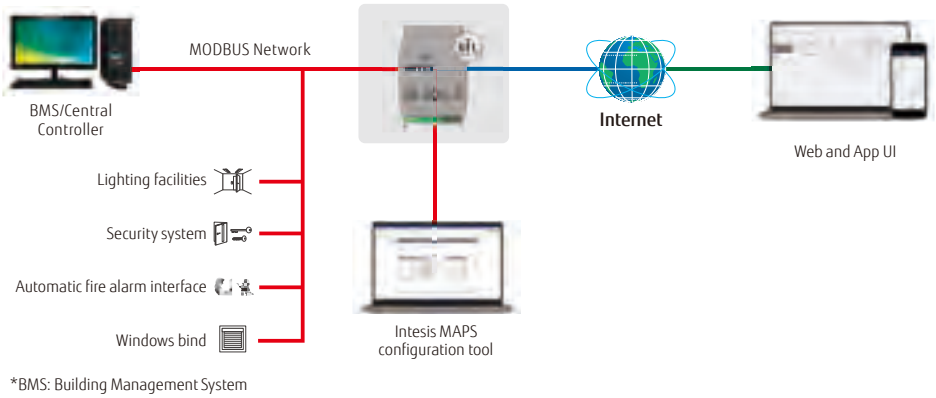
FG-CLD-BMG4Z1 / FG-CLD-BMG8Z1 / FG-CLD-BMG16Z1 / FG-CLD-BMG32Z1

NEW

FG-CLD-BMG4/8/16/32Z1

- The most powerful configuration tool common for all Intesis gateways providing to the integrator the power to configure and monitor the system on an easy and reliable way.
- Simple, easy and useful. It is the best description or the ST Cloud Web and App User Interface. All the widgets are customizable with the content of the user's needs. System Integrators can easily offer to the customer the best user experience to control their BACnet or Modbus devices.

Installation example



*BMS: Building Management System

Gateway features

- BACnet IP/MSTP or Modbus TCP/RTU connectivity
- Up to 32 devices can be connected to each gateway.
- Up to 12 widgets per device
- Easy device configuration using Intesis MAPS

Next level service

- Industrial grade connectivity now for Building Automation
- Fast and scalable real time edge connectivity over HMS HubTM
- Full data control and protection
- Secure and remote updates during the application lifetime

System Features

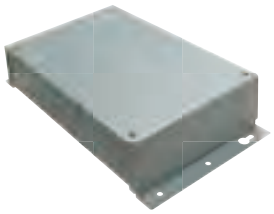
- Monitor and control all devices in an intuitive way
- Comes with a native iOS and Android app and a web interface
- Create scenes and interact with multiple concurrent devices Ca
- Calendar that shows the daily planned installation commands
- Notifications keep you update about system status
- Device sharing and use permissions management
- Multiple site management from a common dashboard

Specifications

Model name	FG-CLD-BMG4Z1	FG-CLD-BMG8Z1	FG-CLD-BMG16Z1	FG-CLD-BMG32Z1
Number of connectable BACnet (IP/MSTP) or Modbus (TCP/RTU) devices	4	8	16	32
Power Supply	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz
Power Consumption (W)	1.7	1.7	1.7	1.7
Dimensions (H × W × D) (mm)	93 ×53 × 58	93 ×53 × 58	93 ×53 × 58	93 ×53 × 58
Weight (g)	150	150	150	150

MODBUS® Convertor for VRF

UTY-VMGX / FG-TL-MBS16Z1



UTY-VMGX

The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Compact and lightweight design
- Direct connection to MODBUS Network
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 convertors can be connected to a VRF network (UTY-VMGX). The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.

Maximum Controllable
9 units to one VRF

Maximum Controllable
100 outdoor units

Selectable
128 indoor units

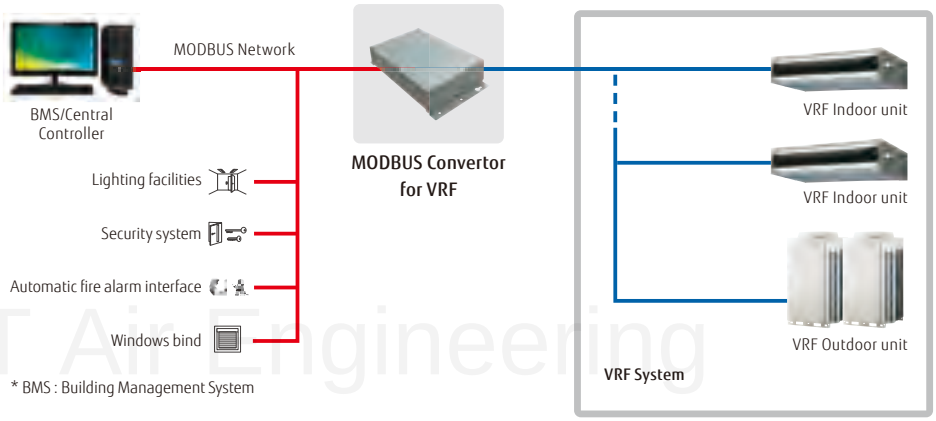
NEW

FG-TL-MBS16Z1

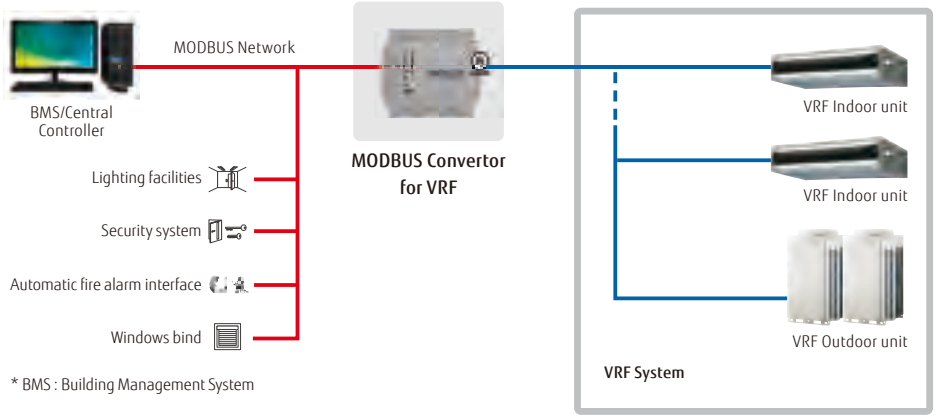
Maximum Controllable
16 indoor units

Maximum Controllable
16 outdoor units

Installation example



* BMS : Building Management System



* BMS : Building Management System

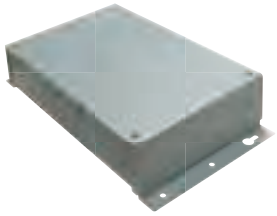
Specifications

Model name	UTY-VMGX	FG-TL-MBS16Z1
Power Supply	220-240 V 50/60 Hz	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	Max. 2	1.7
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,100	330

*Recommended: 24VDC.

KNX® Convertor for VRF

UTY-VKGX / FG-TL-KNX16Z1



UTY-VKGX

Maximum Controllable
100 outdoor units

Selectable
128 indoor units

NEW

FG-TL-KNX16Z1

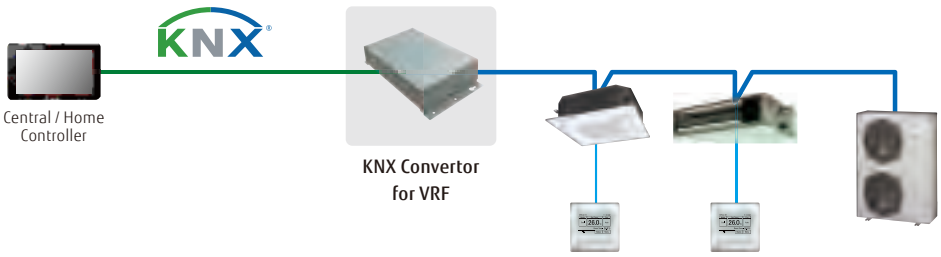
Maximum Controllable
16 indoor units

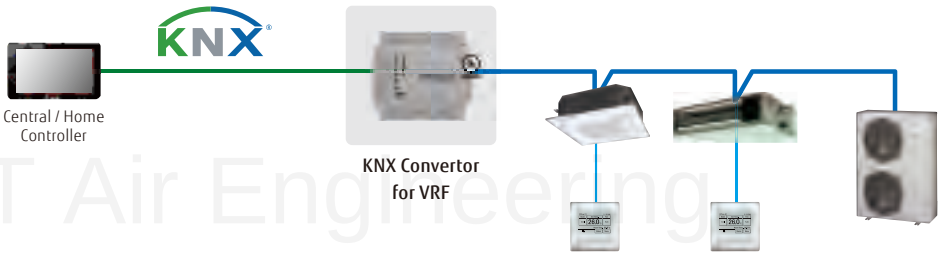
Maximum Controllable
16 outdoor units

KNX Convertor is useful for centralized control in a system.

- New KNX Convertor enables to connect central/home controller and Fujitsu General VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Convertor. (UTY-VKGX)

Installation example





Specifications

Model name	UTY-VKGX	FG-TL-KNX16Z1
Power Supply	220-240 V 50/60 Hz	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	1.5	1.6
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,200	340

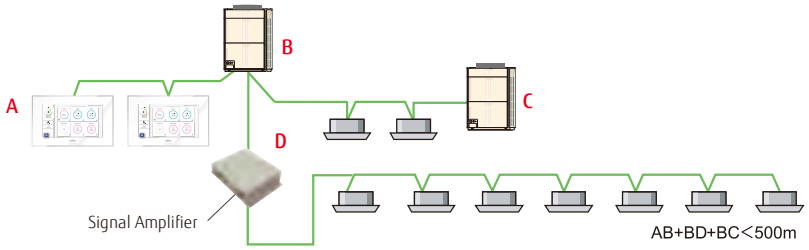
*Recommended: 24VDC.

Signal Amplifier

UTY-VSGXZ1

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

Installation example



Specifications

Model name	UTY-VSGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Network Convertor for LONWORKS®

UTY-VLGX

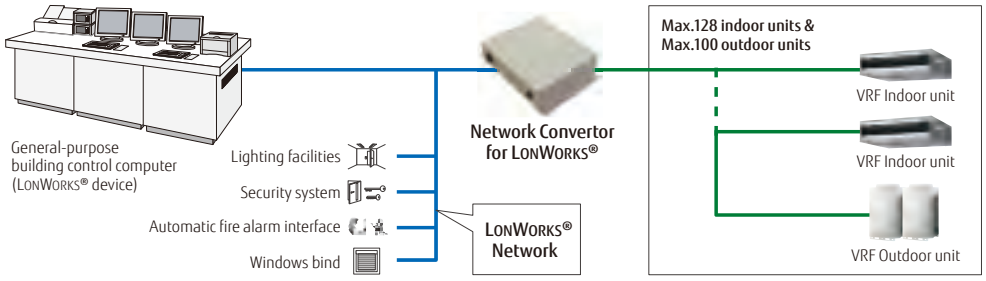
- For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.
- Up to 128 Indoor units can be connected to one Network Convertor for LONWORKS®

Maximum Controllable
4 units to BMS

Maximum Controllable
100 outdoor units

Maximum Controllable
128 indoor units

Installation example



Specifications

Model name	UTY-VLGX
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	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.)

Controller System List (available) For VRF

Controller Options:

Type		Refrigerant	Indoor unit											
			Cassette							Duct				
			One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure Duct				Medium Static Pressure
						4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)		Slim High Efficiency	Normal
		R410A	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH
Interface	BACnet Gateway		UTY-ABGXZ1, UTY-VBGX											
		CN connector type	● FG-AC-BAC1Z1					● FG-AC-BAC1Z1				● FG-AC-BAC1Z1		● FG-AC-BAC1Z1
	Network Convertor for LonWorks		UTY-VLGX											
	MODBUS Convertor		● UTY-VMSX					● UTY-VMSX				● UTY-VMSX		● UTY-VMSX
			● UTY-VMGX FG-TL-MBS16Z1											
	MODBUS Interface	3wire RC line type / CN connector type	● FG-AC-MBS1Z1			● FJ-RC-MBS-1		● FG-AC-MBS1Z1		● FJ-RC-MBS-1		● FG-AC-MBS1Z1	● FJ-RC-MBS-1	● FG-AC-MBS1Z1
	KNX Convertor		● UTY-VKSX					● UTY-VKSX				● UTY-VKSX		● UTY-VKSX
			● UTY-VKGX FG-TL-KNX16Z1											
	KNX Interface	3wire RC line type / CN connector type	● FG-AC-KNX1Z1			● FJ-RC-KNX-1i		● FG-AC-KNX1Z1		● FJ-RC-KNX-1i		● FG-AC-KNX1Z1	● FJ-RC-KNX-1i	● FG-AC-KNX1Z1
		IR type	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1		● FG-IR-KNX1Z1+UTY-LRHYB1		● FG-IR-KNX1Z1+UTY-LBHXD	● FG-IR-KNX1Z1+ UTY-TRHX	● FG-IR-KNX1Z1+ UTB-YWC		● FG-IR-KNX1Z1+ UTY-TRHX	● FG-IR-KNX1Z1+ UTB-YWC	● FG-IR-KNX1Z1+ UTY-TRHX
	Wireless LAN Interface	CN connector type	● UTY-TFSXZ1					● UTY-TFSXZ1				● UTY-TFSXZ1		● UTY-TFSXZ1
		3wire RC line type / CN connector type	● FG-AC-WIF1Z1			● FJ-RC-WIFI-2		● FG-AC-WIF1Z1		● FJ-RC-WIFI-2		● FG-AC-WIF1Z1	● FJ-RC-WIFI-2	● FG-AC-WIF1Z1
		IR type	● FG-IR-WIF1Z1+UTY-TRHX	● FG-IR-WIF1Z1		● FG-IR-WIF1Z1+UTY-LRHYB1		● FG-IR-WIF1Z1+UTY-LBHXD	● FG-IR-WIF1Z1+ UTY-TRHX	● FG-IR-WIF1Z1+ UTB-YWC		● FG-IR-WIF1Z1+ UTY-TRHX	● FG-IR-WIF1Z1+ UTB-YWC	● FG-IR-WIF1Z1+ UTY-TRHX
		3wire RC line type / CN connector type	● FG-AC-WMP1Z1			● FG-RC-WMP1Z1		● FG-AC-WMP1Z1		● FG-RC-WMP1Z1		● FG-AC-WMP1Z1	● FG-RC-WMP1Z1	● FG-AC-WMP1Z1
		IR type	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1		● FG-IR-WMP1Z1+UTY-LRHYB1		● FG-IR-WMP1Z1+UTY-LBHXD	● FG-IR-WMP1Z1+ UTY-TRHX	● FG-IR-WMP1Z1+ UTB-YWC		● FG-IR-WMP1Z1+ UTY-TRHX	● FG-IR-WMP1Z1+ UTB-YWC	● FG-IR-WMP1Z1+ UTY-TRHX
	External Switch Controller		● UTY-TERX											

Indoor unit														
Duct					Floor		Ceiling/ Floor	Ceiling	Wall Mounted					
Medium Static Pressure		High Static Pressure			–	EEV external			–	EEV external	–	EEV external	–	–
High Efficiency		Normal		High Efficiency										
ARXQ 018/024 GTAH	ARXP 024/030 GTAH	ARXC 036/072/ 090/096 GTEH	ARXC 45/60GATH	ARXQ 030GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/ 018/024 GTEH	ABYA 030/036/ 045/054 GTEH	ASYA 004/007/009 GCGH	ASYE 004/007/009 GCEH	ASYA 012/014GCGH	ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH
UTY-ABGXZ1, UTY-VBGX														
		FG-AC-BAC1Z1			FG-AC-BAC1Z1									FG-AC-BAC1Z1
UTY-VLGX														
			UTY-VMSX		UTY-VMSX									UTY-VMSX
UTY-VMGX FG-TL-MBS16Z1														
FJ-RC-MBS-1		FG-AC-MBS1Z1	FJ-RC-MBS-1		FG-AC-MBS1Z1								FJ-RC-MBS-1	FG-AC-MBS1Z1
			UTY-VKSX		UTY-VKSX									UTY-VKSX
UTY-VKGX FG-TL-KNX16Z1														
FJ-RC-KNX-1i		FG-AC-KNX1Z1	FJ-RC-KNX-1i		FG-AC-KNX1Z1								FJ-RC-KNX-1i	FG-AC-KNX1Z1
FG-IR-KNX1Z1+UTB-YWC			FG-IR-KNX1Z1+ UTY-TRHX	FG-IR-KNX1Z1+ UTB-YWC	FG-IR-KNX1Z1									
		UTY-TFSXZ1			UTY-TFSXZ1									UTY-TFSXZ1
FJ-RC-WIFI-2		FG-AC-WIF1Z1	FJ-RC-WIFI-2		FG-AC-WIF1Z1								FJ-RC-WIFI-2	FG-AC-WIF1Z1
FG-IR-WIF1Z1+UTB-YWC			FG-IR-WIF1Z1+ UTY-TRHX	FG-IR-WIF1Z1+ UTB-YWC	FG-IR-WIF1Z1									
FG-RC-WMP1Z1		FG-AC-WMP1Z1	FG-RC-WMP1Z1		FG-AC-WMP1Z1								FG-AC-WMP1Z1	FG-AC-WMP1Z1
FG-IR-WMP1Z1+UTB-YWC			FG-IR-WMP1Z1+ UTY-TRHX	FG-IR-WMP1Z1+ UTB-YWC	FG-IR-WMP1Z1									
UTY-TERX														

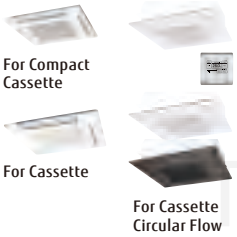
Optional Parts Overview

For Split & Multi-split, VRF

Various optional parts are provided to install the selected indoor unit properly according to the environment.

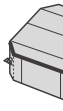
Optional Parts
For Cassette

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

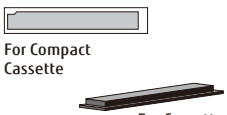


Cassette Grille
Cassette grille lineup matching the various interior is available. In addition, grid ceiling type cassette grille is also added to the lineup.

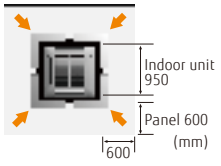
Fresh Air Intake Kit
Fresh air can be taken in by a fan which can be connected using external control unit.



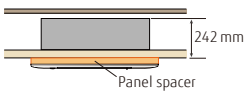
Insulation for High Humidity
For Compact Cassette type/ Cassette type
Insulation for High Humidity is used when the installation location is in the high humidity environment.



Air Outlet Shutter Plate
According to the installation site, the number of outlet directions can be changed to 3 directions by Air Outlet Shutter Plate.



Wide Panel
When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide Panel.

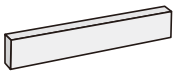


Panel Spacer
When the space above the ceiling is low and the main body is projected out of the ceiling surface, Panel Spacer can be used as decoration

Optional Parts
For V-III

Pressure sensor kit
The height difference between the pressure sensor kits can be expanded up to 110m.

Optional Parts
For Floor



Half Concealed Kit
This kit is used to half conceal floor type indoor unit into the wall.

Optional Parts
For Duct & Ceiling

Auto Louver Grille Kit
Simple flat Auto louver will provide comfort airflow and harmonize with luxury Interior

Remote Sensor Unit
New amenity space can be offered by installing the Remote sensor.

Long Life Filter
Grit and dust can be caught sufficiently. In consideration of running cost, long-life design is achieved.

Flange
Flange is used for Medium Static Pressure Duct type and Ceiling type to connect between pipes.

Drain Pump Unit
This device can drain the collected water during operation.

Connection Parts

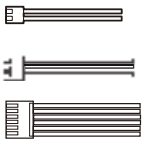
For Wall Mounted type

Communication Kit
For wall mounted type, this kit is required when External Connect kit & Set or wired remote controller is connected to indoor unit.

For Wall Mounted type

For Duct and Cassette type

External Input and Output PCB
For Wall mounted, Duct, or Cassette type, these parts are required when external input and output function is used.



External Connect Kit & Set
These wires can connect between the product PCB and external device.

Connection Units
Connection units are provided to separate the pipes at the connection of multiple indoor units in multi-split type or VRF system.

NEW

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

External Input and Output PCB Box & Bracket
These are the box and bracket for installing the External input and output PCB

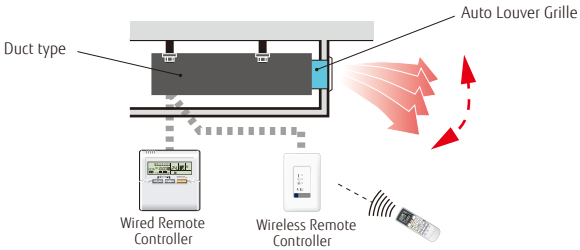
Auto Louver Grille Kit

UTD-GXTA-W / UTD-GXTB-W / UTD-GXTC-W

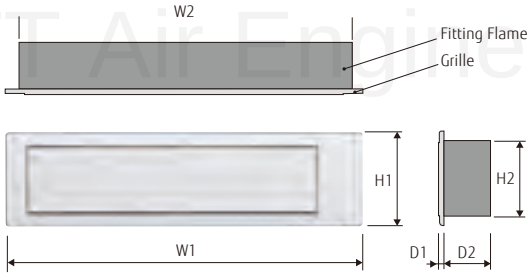
Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

Flexible Control

- **Operation with indoor unit**
  Auto Louver can be operated by synchronizing remote controller of indoor unit.
- **UP and Down auto swing**
  - Auto airflow direction and auto swing
  - 4 steps selectable
- **Auto-closing louver**
  When operation of indoor unit is stopped, the louver will automatically close.



Dimensions



Unit:mm

Model Name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645	180	148	9	84
UTD-GXTB-W	883	845				
UTD-GXTC-W	1,083	1,045				

Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK004/007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)	ARYG18LLTB ARXD018GLEH (For VRF) ARXK018GLEH (For VRF)	ARXD024GLEH (For VRF) ARXK024GLEH (For VRF)
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			1.0m (Max. duct length between indoor unit and Grille)		
Net Dimension (H × W × D)		mm	180 × 683 × (84 + 9)	180 × 883 × (84 + 9)	180 × 1,083 × (84 + 9)
Weight	Net	kg (lbs)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color			White		
Louver Motor			Stepping Motor		
Accessories			Fitting Flame, etc.		
operating range	Cooling	℃	18 to 32		
		% RH	80% or less		
	Heating	℃	16 to 30		

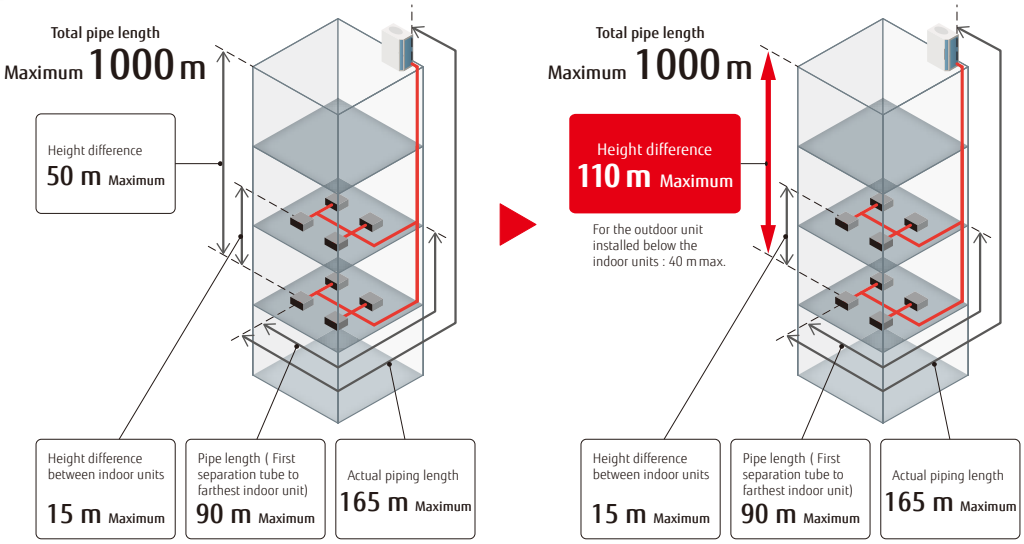
Pressure Sensor Kit

UTY-SPWX

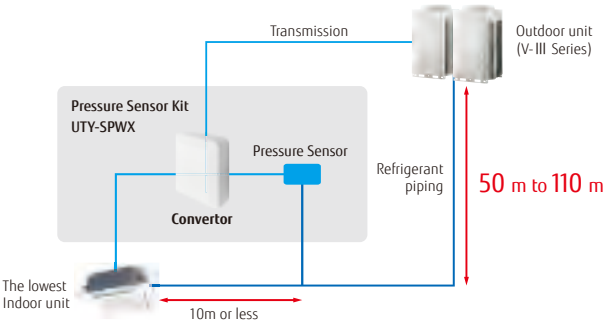
NEW

Design Flexibility

The height difference between the outdoor unit and the indoor unit is usually 50 m for the V-III Series, but by installing the pressure sensor kit it is possible to expand it to 110 m.
(*This product can be used connected only V-III series. Also, it is possible to use only the outdoor unit that outdoor unit software is compatible with this product.



System Over View



Pressure Sensor Kit

Pressure sensor kit (Convertor)	Refrigerant pressure sensor	Joint pipe
		

Specifications

Model name	UTY-SPWX
Power Supply	DC16-9
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	200

External Power Supply Unit

UTZ-GXXC

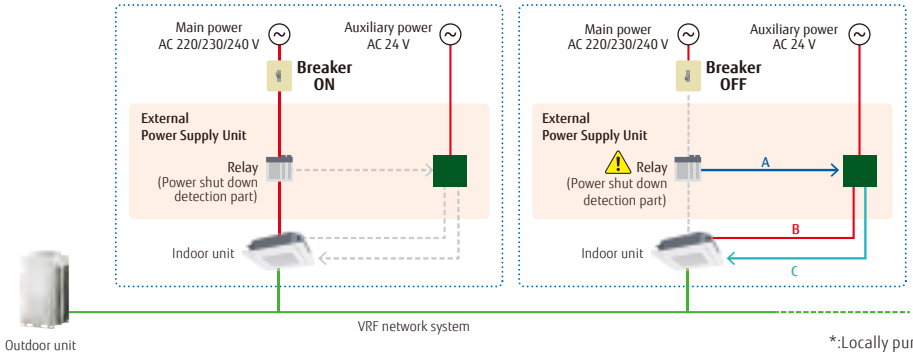
NEW

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

Power is supplied to the indoor unit from auxiliary power by connecting to External Power Supply Unit. This makes it possible to operate continuously without system error.
Built-in relay can reduce the installation time and cost.

High Reliability

- A: Main power shut down can be detected at power shut down detection part.
- B: The power for indoor unit expansion valve drive, etc. is supplied. (DC 12V, 5V)
- C: Power supply from External Power Supply Unit is notified.



*:Locally purchased

Note

- When changing the power supply voltage to AC24V, use a power transformer with an insulated structure that complies with the regulations * of the installation area.
- Indoor units that are powered off and driven by an External Power Supply Unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

* For example UL Class II or IEC 61558 Class III

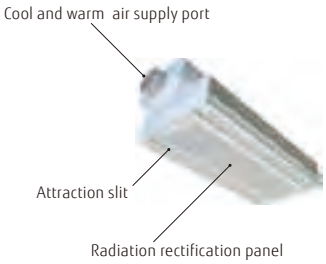
Specifications

Model name	UTZ-GXXC
Power Supply	24VAC 50/60Hz
Dimensions (H × W × D) (mm)	97 × 200 × 178
Weight (g)	800

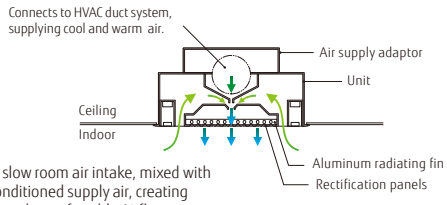
AIR BEAM
Radiation Air Outlet Unit

*Production by order
Please get in touch with us for more details.

Key component



Cross-section view

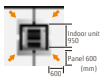
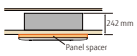


Very slow room air intake, mixed with airconditioned supply air, creating extreemly comfortable Airflow.

Built-in aluminum radiation fin and rectification panels which are helping to disperse and rectify the air current.

Airflow rate (m^3/h)	180 (160-215)	270 (240-325)
Grid	600 × 2	600 × 3
AIR BEAM For system ceiling (Integrated type)	 KS-180	 KS-270

Optional Parts List For VRF

Type	Refrigerant	Indoor unit									
		Cassette							Duct		
		One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type / 4-way Flow	Large type / 4-way Flow	Slim type / Circular Flow	Large type / Circular Flow	Low Static Pressure Duct: Mini (With drain pump)	Low Static Pressure Duct: Slim (With drain pump)	Low Static Pressure Duct: Slim High Efficiency
	R410A	AUXV 004/007/009/012/014/018/024GLEH	AUXS 018/024GLEH	AUXB 004/007/009/012/014/018/024GLEH	AUXD 18/24GALH	AUXA 18/24/30/36/45/54GALH	AUXN 009/012/014GLAH, AUXM 018/024/030GLEH	AUXK 018/024/030/034/036/045/054GLEH	ARXK 004/007/009/012/014/018/024GLGH	ARXD 04GALH	ARXD 007/009/012/014/018/024GLEH / ARXP 009/012/014/018GLAH
Human Sensor Kit							● UTY-SHZXC				
Remote Sensor Unit									● UTY-XSZX		
Cassette Grille	 UTG-UNYA-W, UTG-UNYB-W, UTG-USYA-W, UTG-UKYC-W, UTG-UFYE-W, UTG-UKYA-B, UTG-UFYC-W, UTG-UGYA-W	● UTG-UNYA-W UTG-UNYB-W	● UTG-USYA-W	● UTG-UFYE-W UTG-UFYC-W	● UTG-UGYA-W		● UTG-UKYC-W UTG-UKYA-B				
Auto Louver Grille Kit									● UTD-GXTA-W, UTD-GXTB-W (18), UTD-GXTC-W (24)		● UTD-GXTC-W (009/012/014)
Long Life Filter											● UTD-LF25NA (018)
Flange											● UTD-SF045T(018) UTD-RF204(018)
Drain Pump Unit											● UTZ-PX1NBA (018)
Wide Panel					● UTG-AGYA-W		● UTG-AKXA-W				
Panel Spacer					● UTG-BGYA-W		● UTG-BKXA-W				
Fresh Air Intake Kit*1	 For Compact Cassette, For Cassette			● UTZ-VXAA	● UTZ-VXGA		● UTZ-VXRA				
Air Outlet Shutter Plate	 For Compact Cassette, For Cassette			● UTR-YDZB	● UTR-YDZC		● UTR-YDZK				
Insulation for High Humidity	 For Compact Cassette type/ Cassette type			● UTZ-KXGC	● UTZ-KXGB	● UTZ-KXGA	● UTZ-KXRA				
Half Concealed Kit											
External Power Supply Unit		● UTZ-GXXC					● UTZ-GXXC			● UTZ-GXXC	
Pressure Sensor Kit											

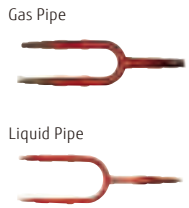
Indoor unit														Outdoor unit
Duct						Floor		Floor / Ceiling	Ceiling	Wall Mounted				
Medium Static Pressure			High Static Pressure			–	EEV external			–	EEV external	–	–	V-III V-III TROPICAL
Normal	High Efficiency		Normal		High Efficiency									
ARXA 024/030/ 036/045 GLEH	ARXQ 018/024GTAH	ARXP 024/030GTAH	ARXC 036/072/ 090/096 GTEH	ARXC 45/60GATH	ARXQ 030GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/ 018/024 GTEH	ABYA 030/036/ 045/054 GTEH	ASYA 004/007/009 012/014 GCGH	ASYE 004/007/009 012/014 GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH	AJY 072/090/108/ 126/144/162 LALBH AJY 072/090/108/ 126/144/162 LNLBH
● UTY-XSZX														
● UTD-LF25NA		● UTD-LFNA	● UTD-LF60KA (45/60/036)											
● UTD-SF045T UTD-RF204									● UTD-RF204					
● UTZ-PX1NBA									● UTR-DPB24T					
						● UTR-STA								
● UTZ-GXXC			● UTZ-GXXC			● UTZ-GXXC							● UTZ-GXXC	
														● UTY-SPWX

Separation Tube etc.

For VRF

Separation Tube

UTP-AX054A



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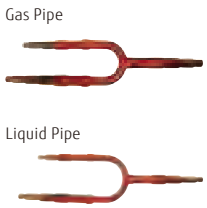

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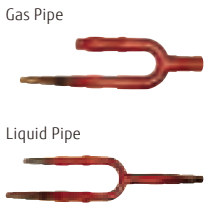

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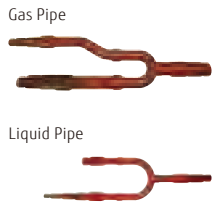

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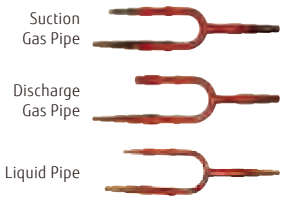

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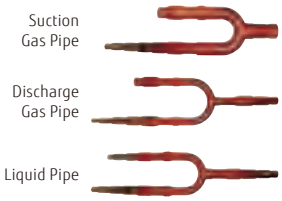

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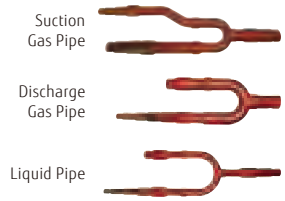
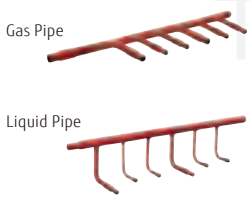


UTP-LX180A
For DX-Kit

Header

UTR-H0906L / UTR-H1806L



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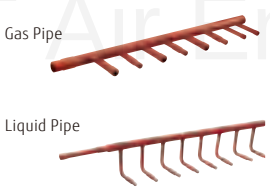

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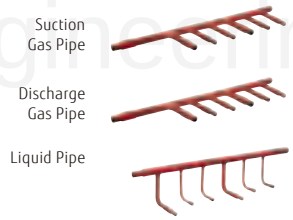

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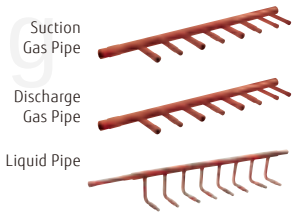
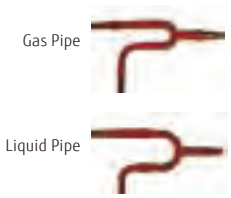


Outdoor Unit Branch Kit

UTP-CX567A



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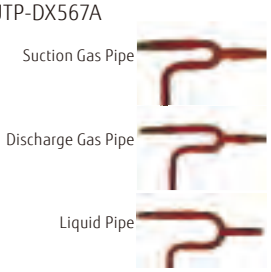

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