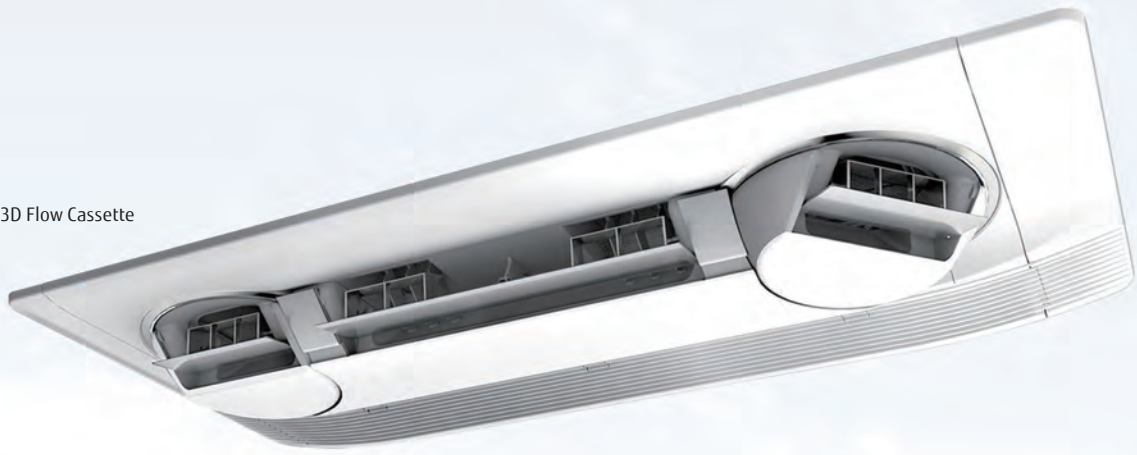




VRF Systems CATALOGUE

FUJITSU GENERAL (THAILAND)

3D Flow Cassette



DESIGN for COMFORT



NEW VRF J-VS
4/5/6 HP model



NEW VRF VC-V
14/16HP model

PROPERTIES

Target Property

Light Commercial

For Small offices,
Hotels, SCHOOL, Shops
and Restaurant etc.

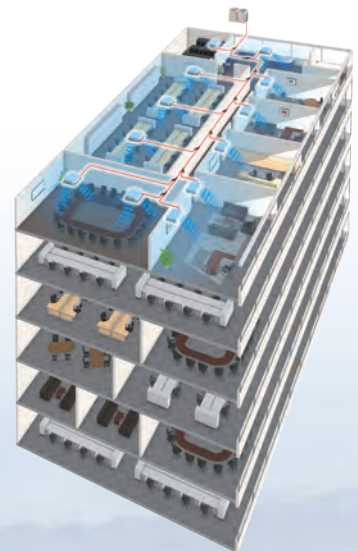
We offer comfortable and economical air conditioning systems focused on small to medium-sized buildings.



Commercial

For Large Building

We provide single and modular type VRF systems designed for high efficiency, comfort, freedom of design, easy installation and high reliability.



VRF CORE TECHNOLOGY

HIGH ENERGY EFFICIENCY

MORE COMFORT

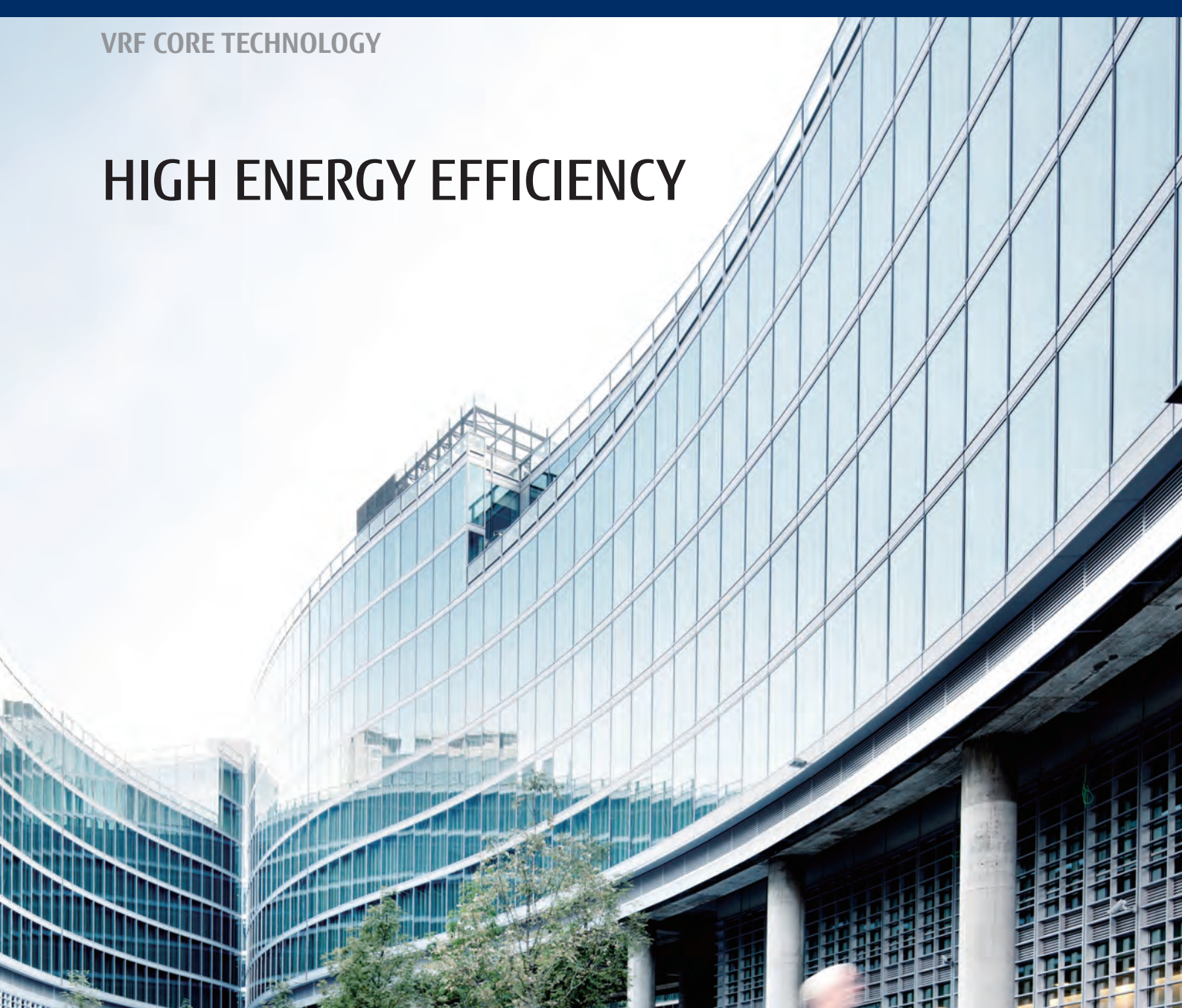
HIGH RELIABILITY

DESIGN FLEXIBILITY

EASY INSTALLATION

EASY SERVICE & MAINTENANCE

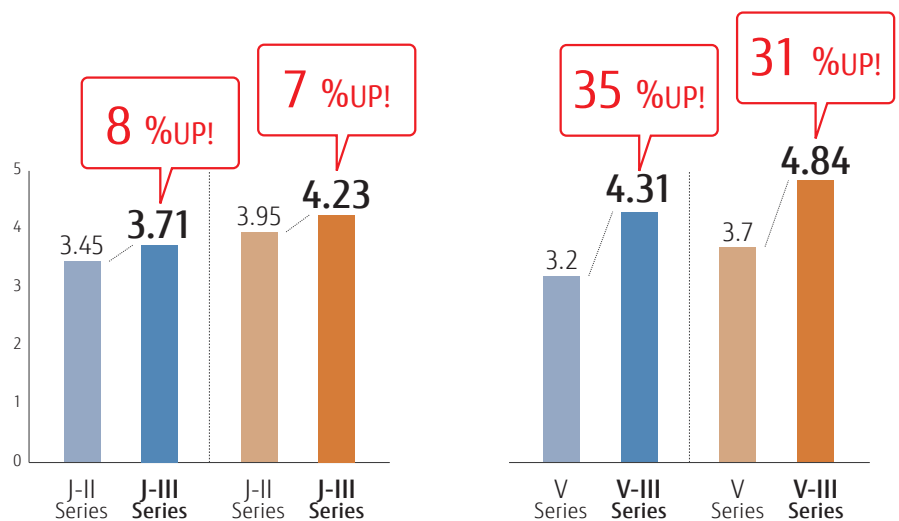
HIGH ENERGY EFFICIENCY



Highly Energy Efficiency

Significantly efficiency is improved, inverter technology, and large heat exchanger.

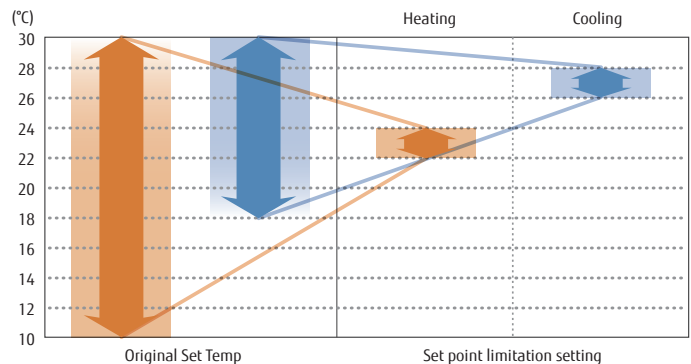
EER
COP



Operation Performance is Efficiently Controlled.

Room temperature set point limitation

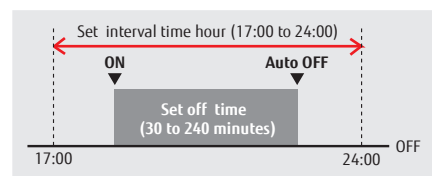
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.



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.



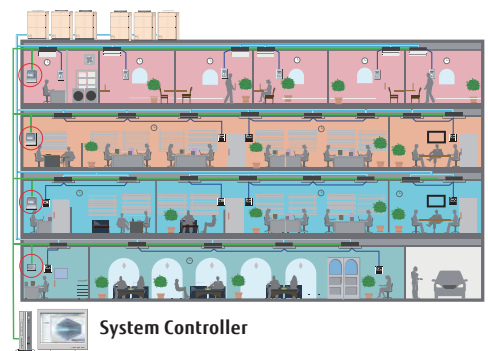
Energy saving management

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.

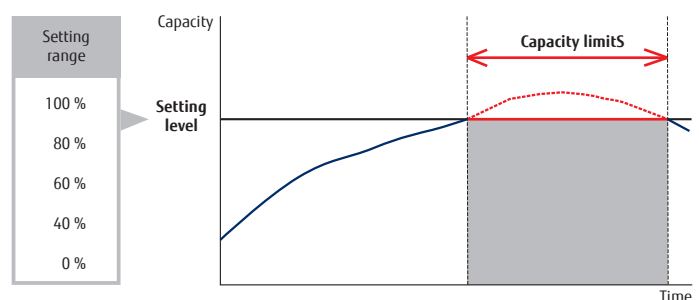


(Screen image is Energy manager software(Optional))



Capacity limit 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.

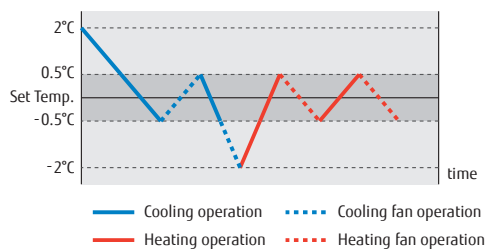


MORE COMFORT



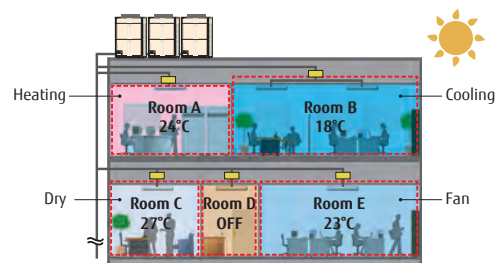
Auto changeover

In Auto setting, the air conditioner switches between cooling and heating modes automatically according to the set temperature and the room temperature.

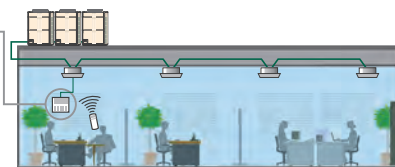


Auto changeover settings enable the indoor unit to easily switch between cooling and heating regardless of the operating mode of other indoor units. These settings can be made using a wired remote controller for a specific indoor unit. Provides a comfortable environment all year round.

Automatic cooling/heating operation for each room is possible

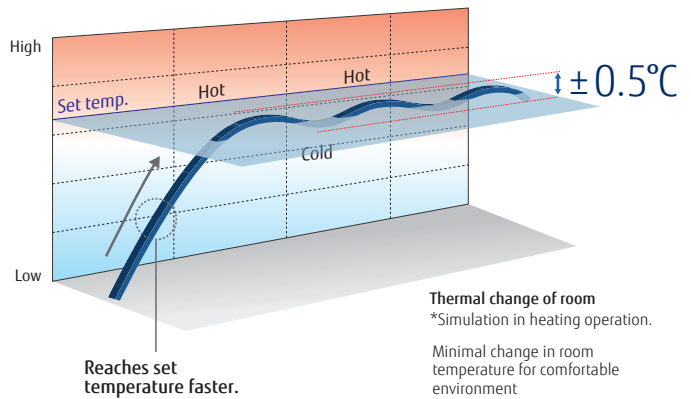


Switching between cooling and heating modes using a specific remote control in the main room or other rooms



Precise control of refrigerant flow

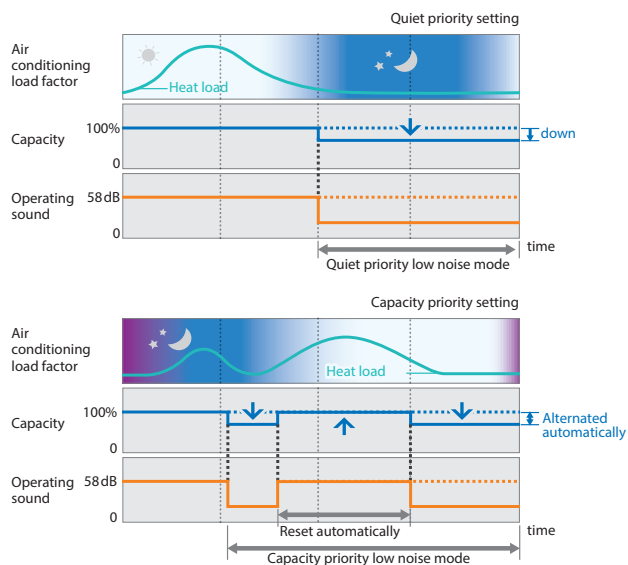
The combination of DC inverter control and individual control of electronic expansion valves of an indoor unit enables precise and smooth control of the refrigerant flow. This means the room temperature can be set in increments of 0.5°C.



Quiet operation

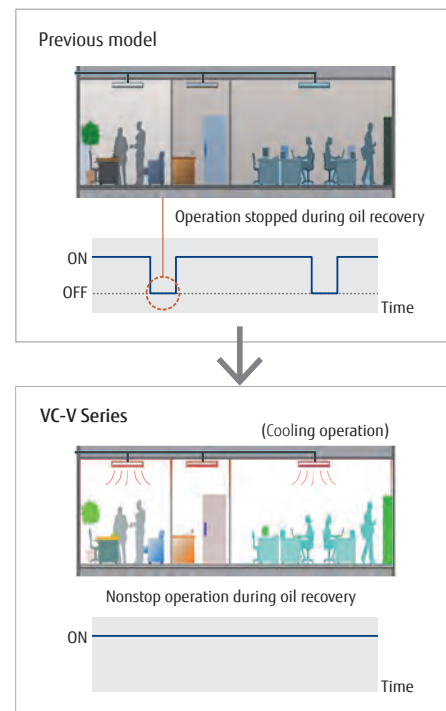
Quiet operation

Two low noise modes can be switched over automatically between one in which low noise is prioritized over performance, and the other in which performance is prioritized over low noise, depending on the room temperature and outdoor temperature. This feature can be controlled by external input from the outdoor unit or a system controller.



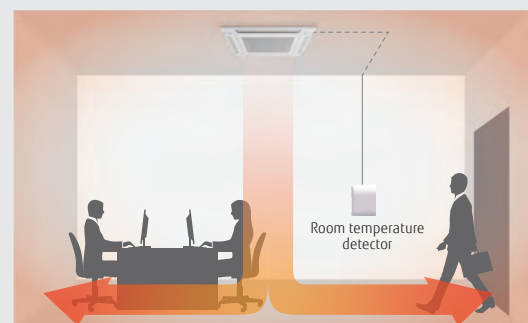
Non-stop oil recovery operation

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



NEW Switching room temperature sensing position for improved heating comfort (Option)

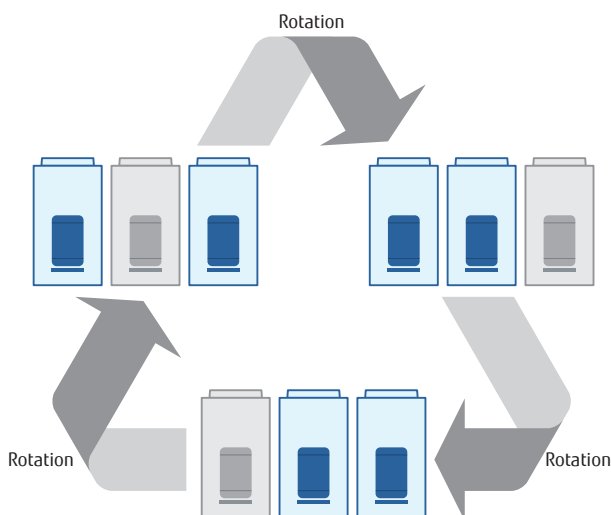
The optional remote sensor kit (UTY-XSZXZ1) can be connected to the indoor unit to improve comfort by installing the unit at a height appropriate for the living environment.



HIGH RELIABILITY

Outdoor unit rotation

The compressor starting order is rotated to equalize the cumulative running time of each unit.

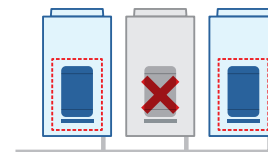


The start and stop timings are alternated among connected compressors.

Backup operation (Emergency operation)

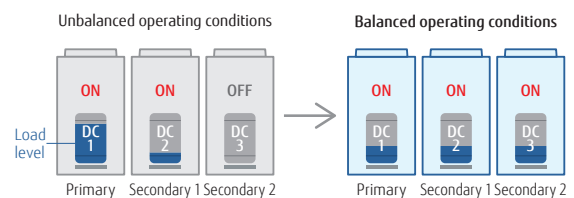
If one compressor fails, the other compressors will initiate backup operation*.

Note: Backup operation may not be possible depending on the cause of failure.



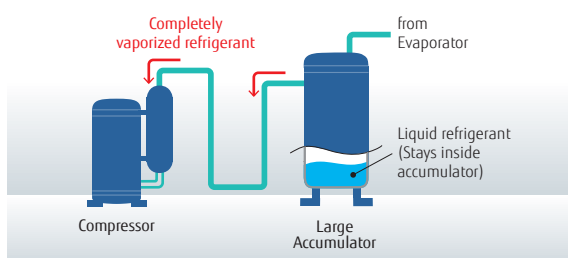
Advanced refrigerant control

Compressor control logic controls the inverter speed to balance the mass airflow rate of refrigerant in each outdoor unit.



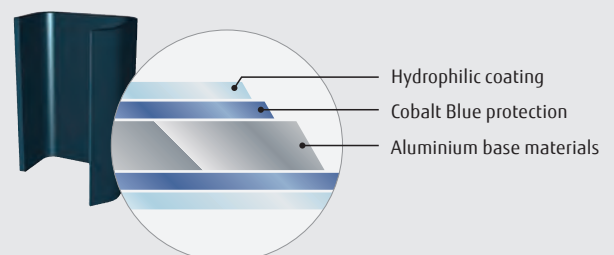
Protection against liquid flowback

The use of a large accumulator means that refrigerant that has not been completely vaporized stays inside the accumulator to ensure no liquid refrigerant is fed into the compressor.



Blue fin heat exchanger

The anti-corrosion blue fin treatment is applied to the heat exchanger of the outdoor unit.



DESIGN FLEXIBILITY

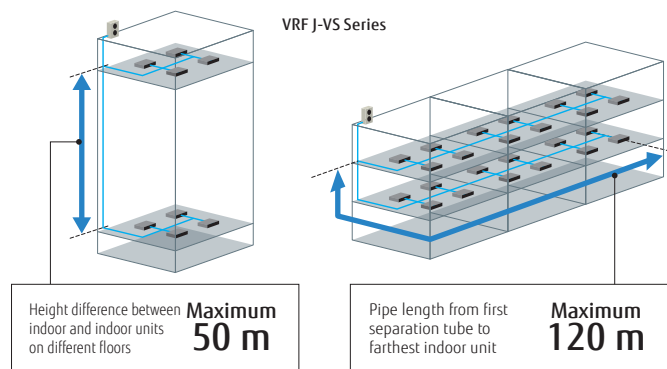
Class-leading compact design

An industry-leading compact outdoor unit with optimal airflow pattern design.
(Up to 18 HP)



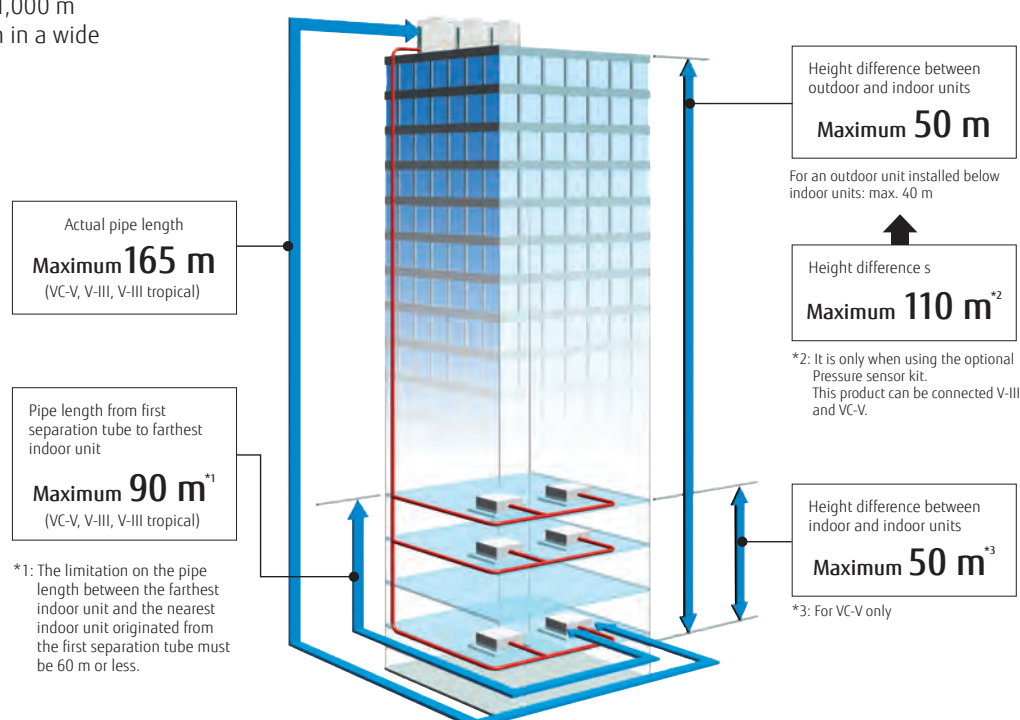
Long pipe design

Pipe design suitable for long and narrow office buildings with elevation differences and low-rise stores with long distances
(VRF J-IVL Series)








Max. allowable overall pipe length: 1,000 m





The class-leading pipe length of 1,000 m increases flexibility of installation in a wide variety of buildings.



High-capacity connection

*: 6-HP model only.

Series	Connectable indoor unit capacity range	Connectable indoor units
 VRF J-VS Series Heat pump type	50% to 130%	up to 13*
 VRF J-IVL Series 14/16/18 HP Heat pump type	50% to 150%	up to 34
 VRF J-IVL Series 8/10/12 HP Heat pump type	50% to 150%	up to 22
 VRF J-IV Series Heat pump type	50% to 150%	up to 13
 VRF J-III Tropical Series Heat pump type	50% to 130%	up to 9

Series	Connectable indoor unit capacity range	Connectable indoor units
 VRF J-IVS Series Heat pump type	50% to 130%	up to 8
 VRF VC-V Series Cooling Only type	50% to 150%	up to 64
 VRF V-III Series Heat Pump type	50% to 150%	up to 64
 VRF V-III Tropical Series Heat Pump type	50% to 130%	up to 55

Designed for low refrigerant charge

The optimal design of the indoor and outdoor units reduces the amount of refrigerant required and can be easily installed in a room as small as 15 m².



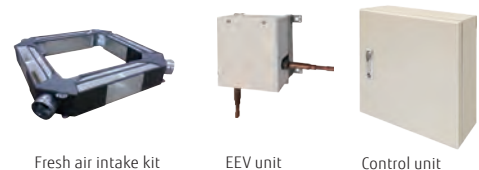
Various optional parts

- Fresh air intake kit to bring in fresh air
- Comfortable temperature control with a remote sensor
- DX kit links ventilation equipment and air handling units.



Low ambient operation

Our refrigeration cycle technology enables cooling operation even at -15°C.



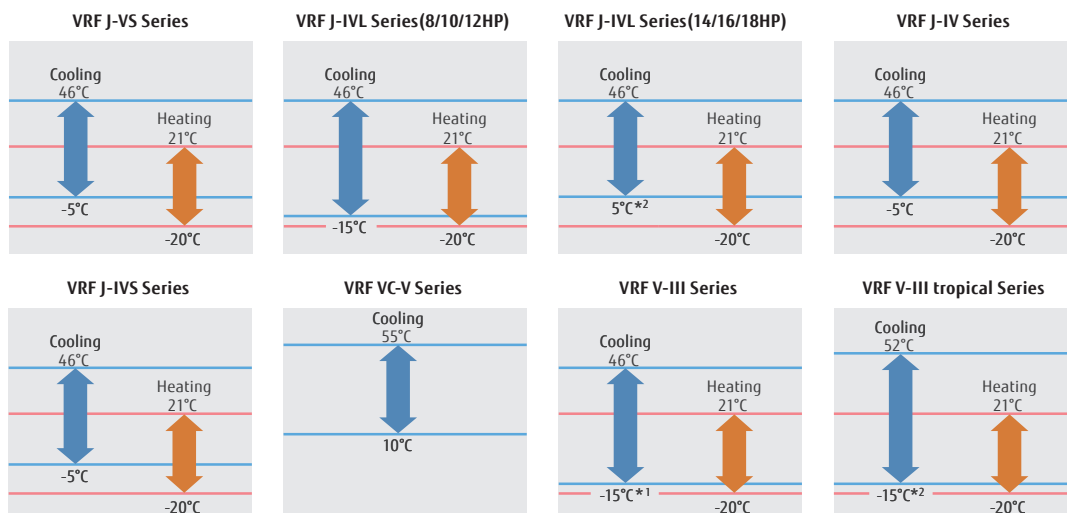
Fresh air intake kit

EEV unit

Control unit

Wide operating range

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

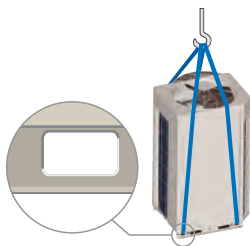


*1. Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

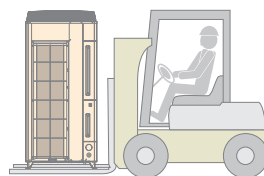
*2. Note : Only when all indoor units are 5.6 kW or more in the system, the operation range is -15 to 46°C.

EASY INSTALLATION

Easily transported



A lifting strap can be hooked onto an outdoor unit
Design of outdoor unit allows for lifting straps to be used



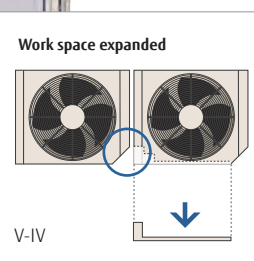
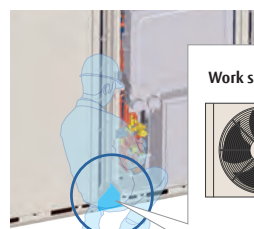
Transportable by forklift
The outdoor unit can be lifted and transported by forklift.



Fits into a small elevator.

Easy access

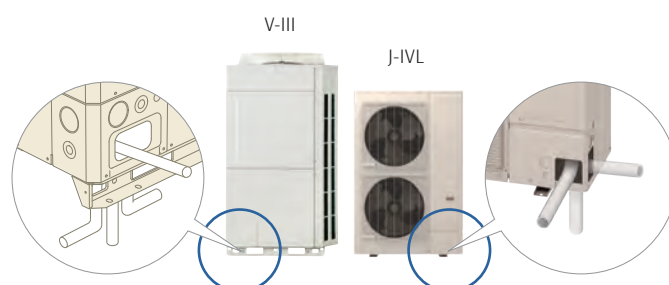
The removable L-shaped front panel provides more room for installation and service work. Multiple installations can be performed easily and efficiently even in tight spaces.



Front access reduces installation intervals

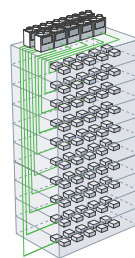
Flexible pipe connection

Piping and wiring can be accessed from the front, left, right, and bottom.



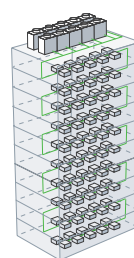
Simple wiring work

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



Parallel connection

OR



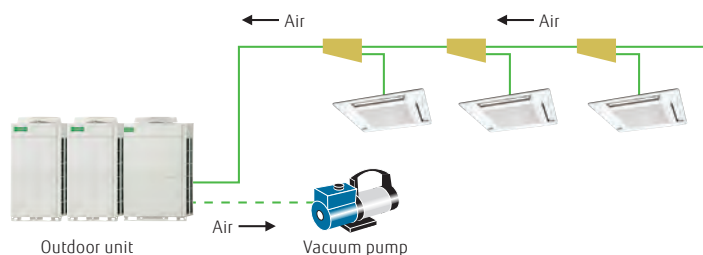
Serial connection

Maximum wiring length:
3,600 m

Note: The automatic address setting is not available on a serially connected multiple refrigerant system.

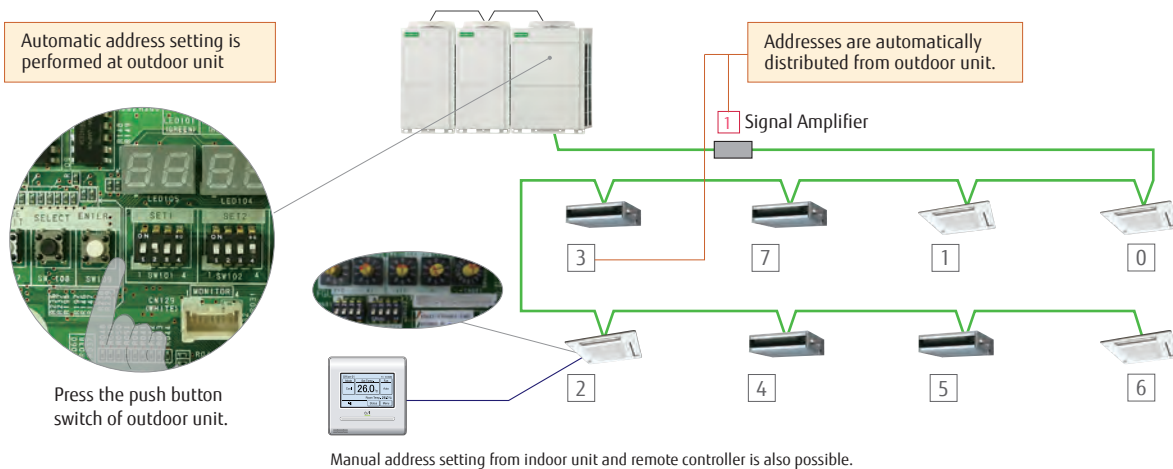
Easy evacuation - using vacuum mode function

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

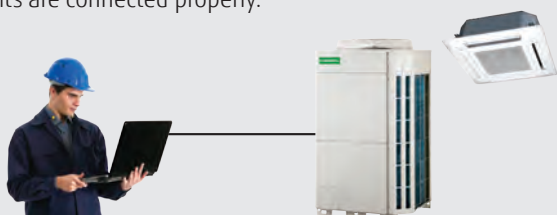
The address of the indoor unit and signal amplifier can be set through the automatic function setting on the outdoor unit PCB.



Easy commissioning by Service Tool

• Service Tool (UTY-ASGXZ1)

The Service Tool checks the refrigerant temperature and pressure, and the operating status of the electronic expansion valves, making it easy to determine if the units are connected properly.



NEW

• Central Remote Controller (UTY-DCGGZ3)

After the VRF system has been installed. Conveniently, the "test run" required to verify proper system operation can be performed from a nearby Central RC.



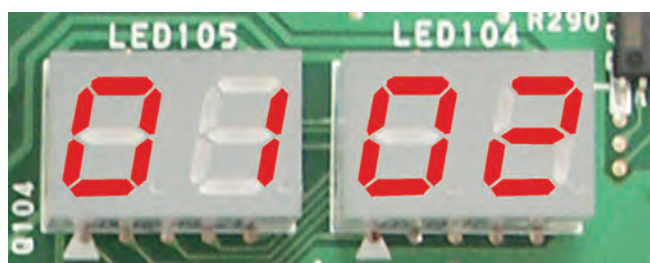
Test run
START



EASY SERVICE & MAINTENANCE

Designed for easy maintenance

A 7-segment indicator lamp panel provides detailed information on the function setting status, refrigerant temperature and pressure, compressor operation time, and other factors, facilitating self-diagnosis for each unit.



Easy-to-read 7-segment indicator lamp

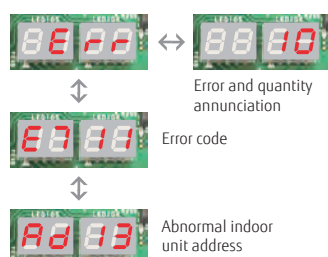
Shows the following detailed operation and error status without need of any special tools.

Error status can be checked on an outdoor unit's display

- System operation mode
- Discharge temperature and pressure
- Compressor operation status
- Address, type, and number of outdoor unit

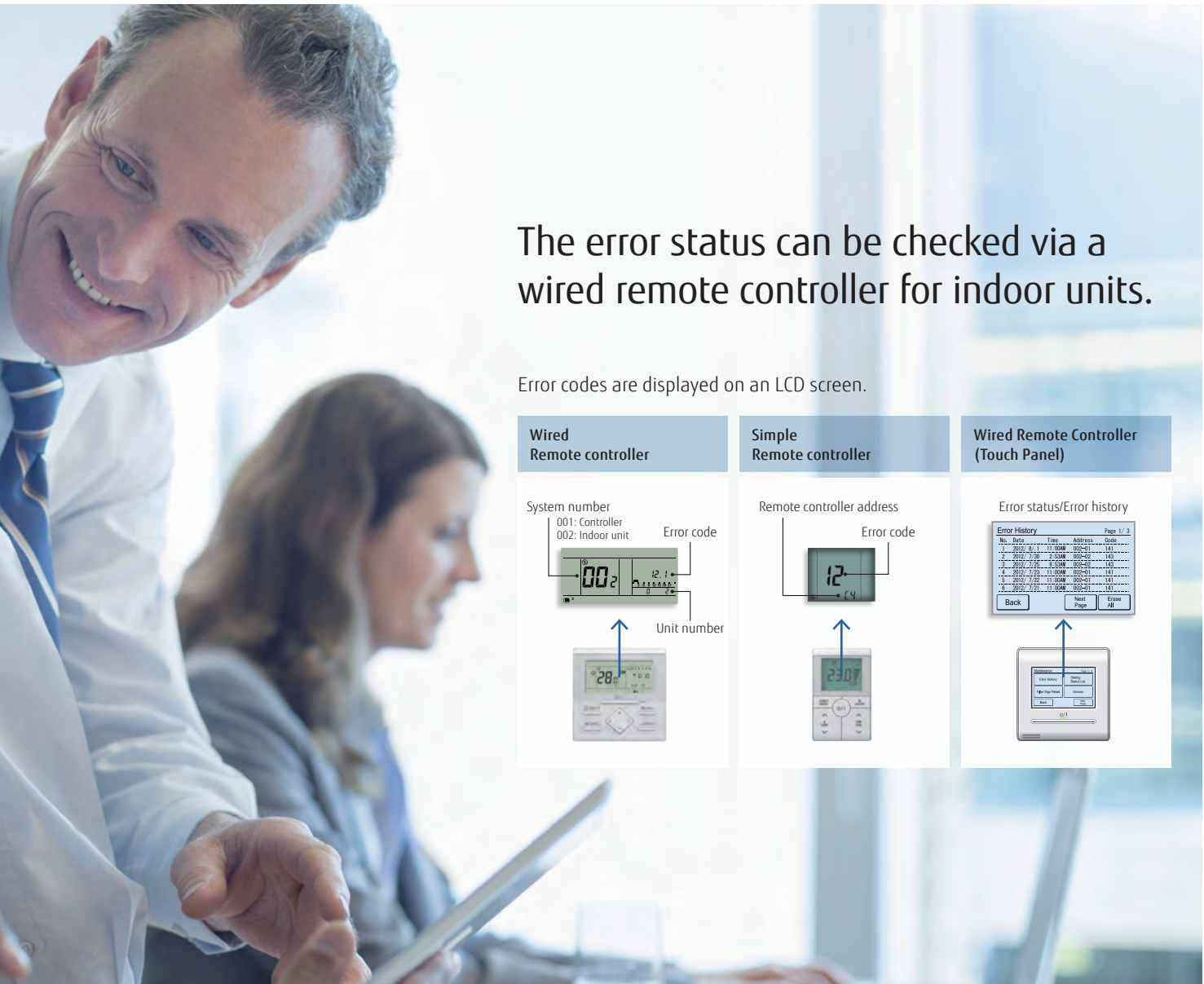
Movable PCB panel

Enables easier access behind the PCB for maintenance work.



- Error status can easily be checked on an outdoor unit's display.





The error status can be checked via a wired remote controller for indoor units.

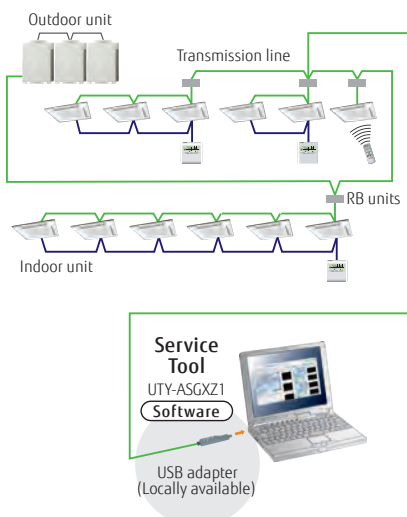
Error codes are displayed on an LCD screen.

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

Error diagnosis by Service tool

Connection to Service tool

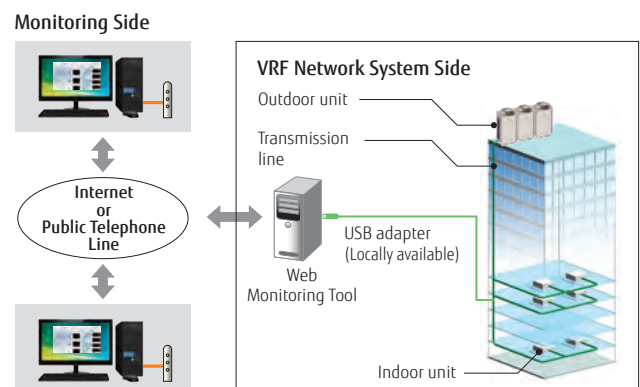
- A detailed operation status and recent error history can be checked and analyzed using Service tool.
- The last 5 minutes of operation status can be recorded continuously.



Remote monitoring

The Web Monitoring system enables the monitoring of the system's operation status at any time via the internet to ensure trouble-free operation.

The operating VRF network system in the building can be monitored real time over the internet.



VRF SERIES

VRF Series LINE-UP

HEAT PUMP TYPE VRF J-VS Series

HEAT PUMP TYPE VRF J-IV Series

HEAT PUMP TYPE VRF J-IVL Series

COOLING ONLY TYPE VRF VC-V Series

HEAT PUMP TYPE VRF V-III TROPICAL Series

The image shows three outdoor VRF units stacked vertically. Each unit has a large, circular fan grille with a white metal mesh. The units are white and mounted on a metal grid. In the background, a person is visible working on some equipment.










































































The VRF 5 Series has a total of 102 models to meet the environmental and building size requirements.

The VRF Series outdoor units were developed with structural designs and advanced inverter technology to provide higher efficiency.

High durability technology has also been incorporated to ensure long-term use.

VRF Series LINE-UP

Outdoor units range

Capacity (kW)		Refrigerant	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	
HP			12.1	14	15.1-15.5	22.4	28	33.5	40	45	50.4	55.9	61.5	67	73.5	78.5	85	90	95	
NEW	J-VS Series																			
			AJH040 LCLAH	AJH045 LCLAH	AJH054 LCLAH															
J-IVS Series																				
			AJH040 LCLBH	AJH045 LCLBH	AJH054 LCLBH															
J-IV Series			 High Efficiency (Single phase)																	
		AJY040 LBLAH	AJY045 LBLAH	AJY054 LBLAH																
			 High Efficiency (3 phase)																	
		AJY040 LELBH	AJY045 LELBH	AJY054 LELBH																
J-III Series			 High Efficiency (Single phase)																	
		AJY040 LALAH	AJY045 LALAH	AJY054 LALAH																
			 High Efficiency (3 phase)																	
		AJY040 LELAH	AJY045 LELAH	AJY054 LELAH																
J-IVL Series																				
						AJY072 LELBH	AJY090 LELBH	AJY108 LELBH	AJY126 LELBH	AJY144 LELBH	AJY162 LELBH									
NEW	VRF VC-V Series	Standard combination																		
		Set Model					AJG072 JATAH	AJG090 JATAH	AJG108 JATAH	AJG126 JATAH	AJG144 JATAH	AJG162 JATAH	AJG180 JATAH	AJG198 JATAH	AJG216 JATAH	AJG234 JATAH	AJG252 JATAH	AJG270 JATAH	AJG288 JATAH	AJG306 JATAH
		Energy Efficiency																		
		Set Model									AJG144 JATAHH	AJG162 JATAHH	AJG180 JATAHH		AJG216 JATAHH	AJG234 JATAHH	AJG252 JATAHH	AJG270 JATAHH	AJG288 JATAHH	AJG306 JATAHH
VRF V-III Tropical Series		Space Saving																		
		Set Model					AJ*072 LNTCH	AJ*090 LNTCH	AJ*108 LNTCH	AJ*126 LNTCH	AJ*144 LNTCH	AJ*162 LNTCH	AJ*180 LALDH	AJ*198 LALDH	AJ*216 LNTCH	AJ*234 LNTCH	AJ*252 LNTCH	AJ*270 LNTCH	AJ*288 LNTCH	AJ*306 LNTCH
		Energy Efficiency																		
		Set Model									AJ*144 LNTCHH	AJ*162 LNTCHH	AJ*180 LALDHH		AJ*216 LNTCHH	AJ*234 LNTCHH	AJ*252 LNTCHH	AJ*270 LNTCHH	AJ*288 LNTCHH	AJ*306 LNTCHH

36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
100.5	107	112	118.5	123.5	130	135	139.0	143.0	147.0													

*: Not available to sale in some regions



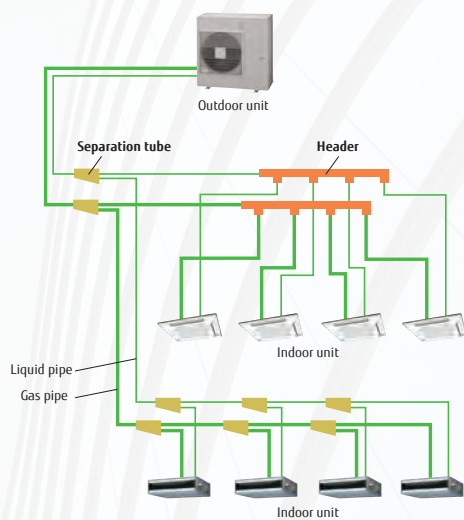
Heat Pump

for Small-capacity type

VRF *J-IVS*

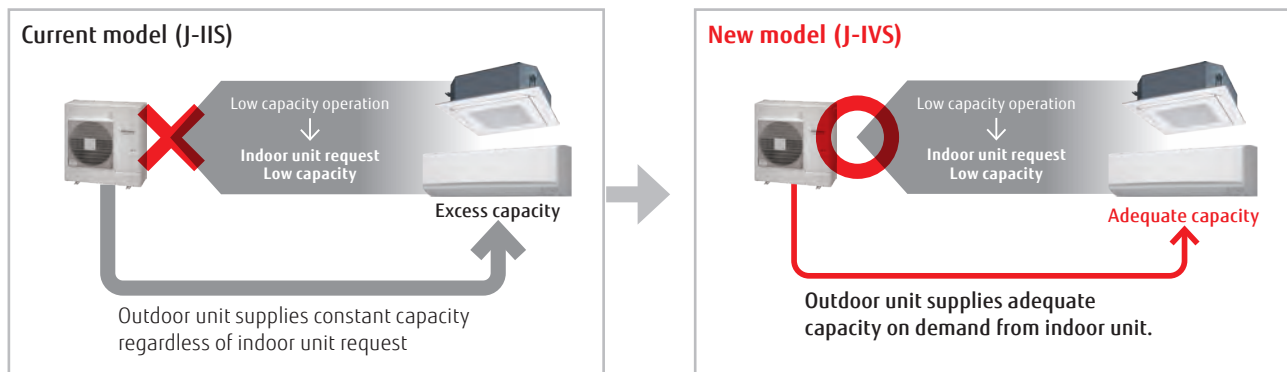
Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

System configuration example



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)

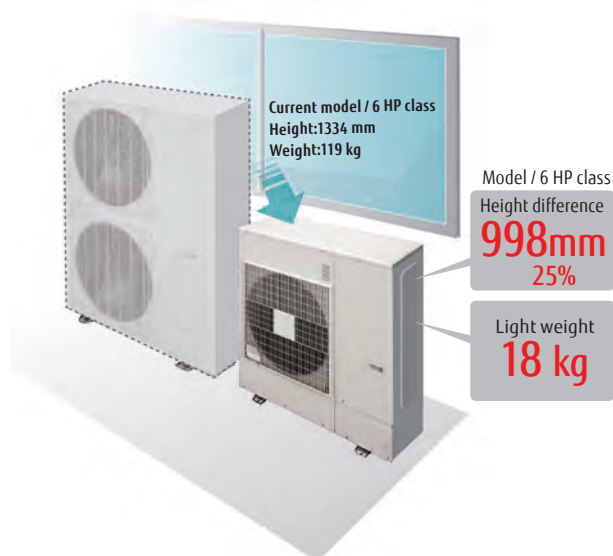
Smooth airflow grille
This grille was aerodynamically designed for good efficiency with little blow loss.

DC inverter control
Efficiency is improved by mounting of new active filter module.

Low noise rubber
High efficiency compressor motor
Optimized refrigerant flow design
Highly accurate parts

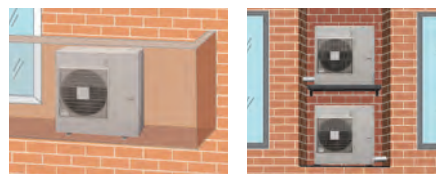
Compact and high performance DC twin rotary compressor
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

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

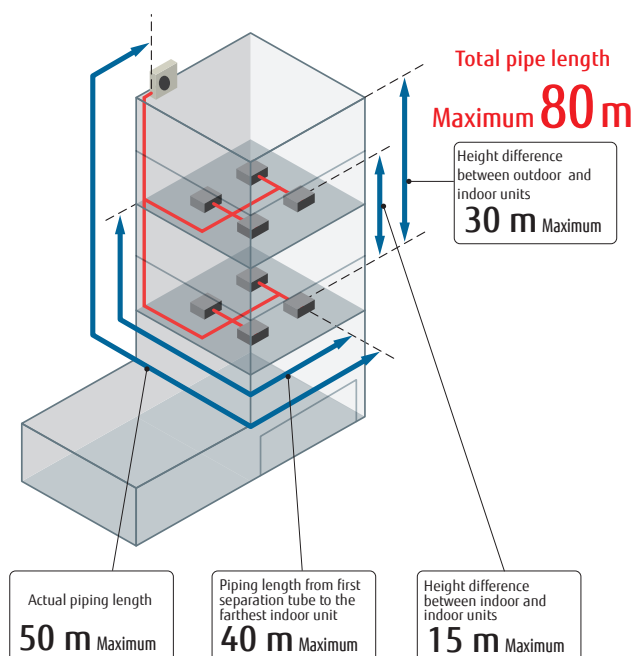


Low sound level design

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 new possibilities in system design.



Up to 13 units* can be connected

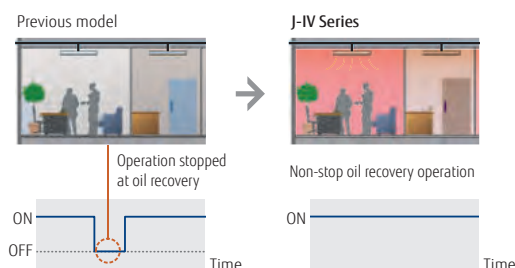
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 13 units.

*: 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

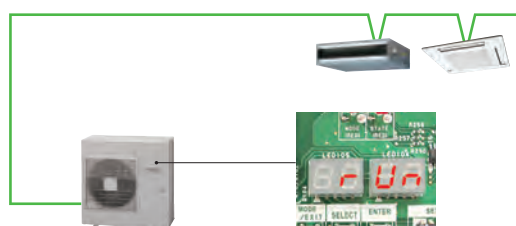
Non-stop oil recovery operation

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



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 (kW)	41,200 (12.1)	47,800 (14.0)	51,500 (15.1)
	Heating		46,400 (13.6)	54,500 (16.0)	56,500 (16.5)
Input power	Cooling	kW	3.44	4.43	5.03
	Heating		3.09	3.93	4.11
EER	Cooling	W/W	3.52	3.16	3.00
COP	Heating		4.40	4.07	4.01
Air flow rate		m3/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
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		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

The protective function may work when using it outside the operation range.

(Unit : mm)





Heat Pump

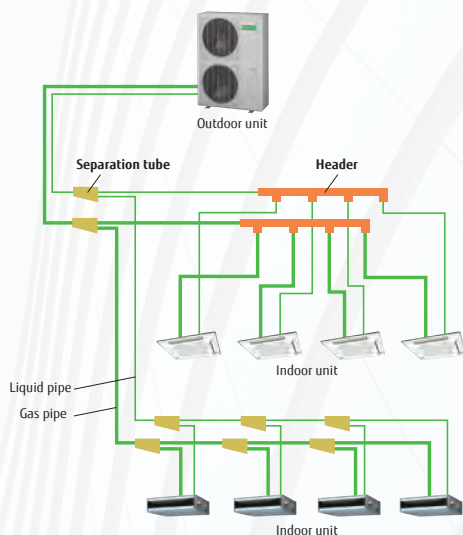
for Small-capacity type

VRF *J-IV*

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

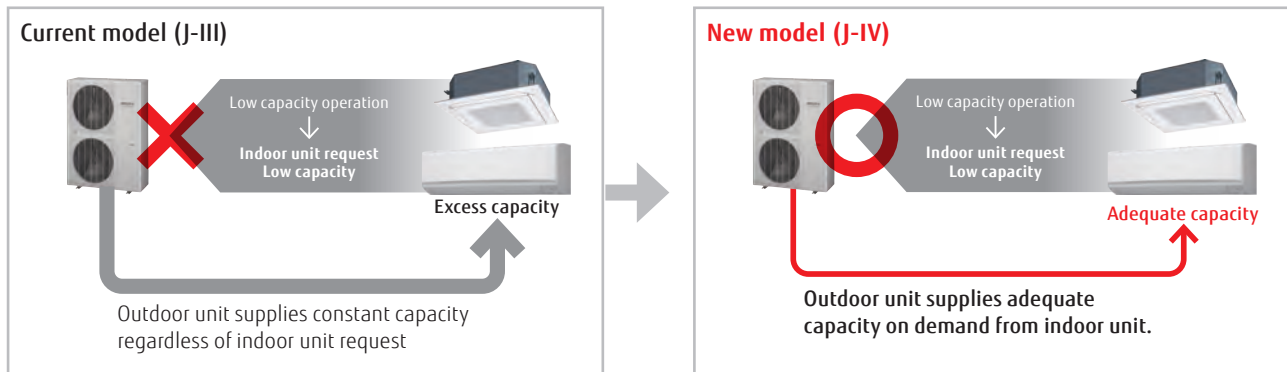
System configuration example

- 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.



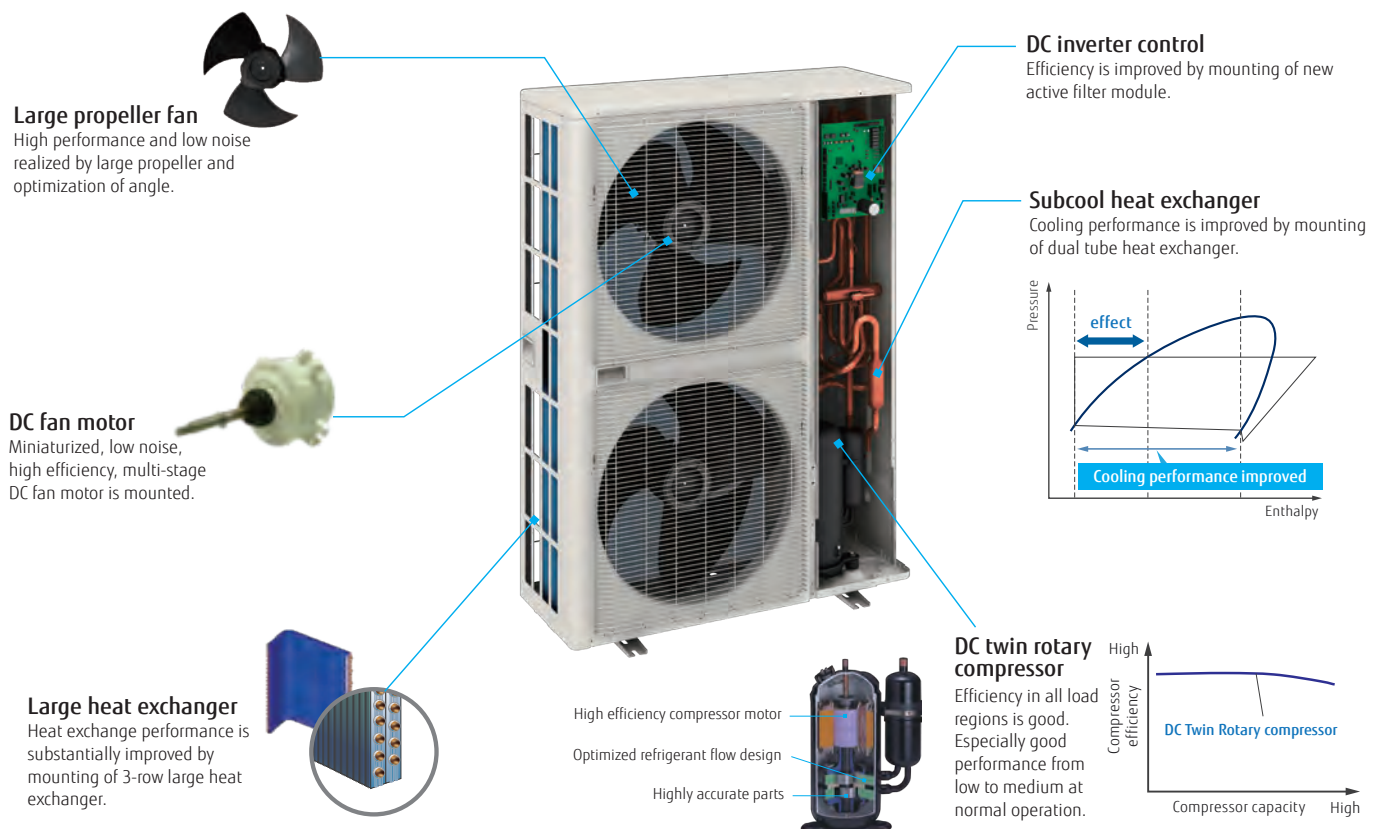
* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

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



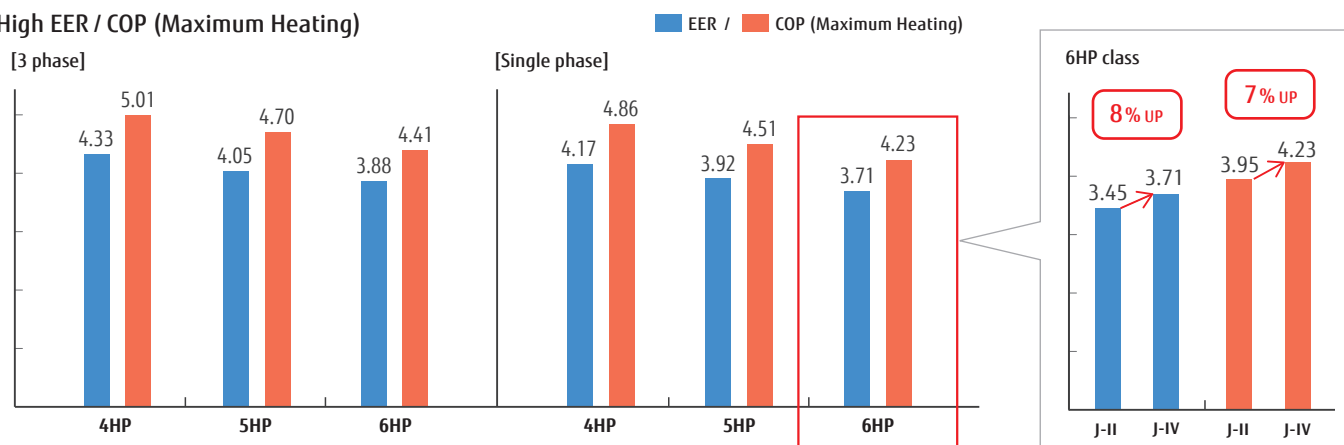
Advanced high efficiency technology



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 capability

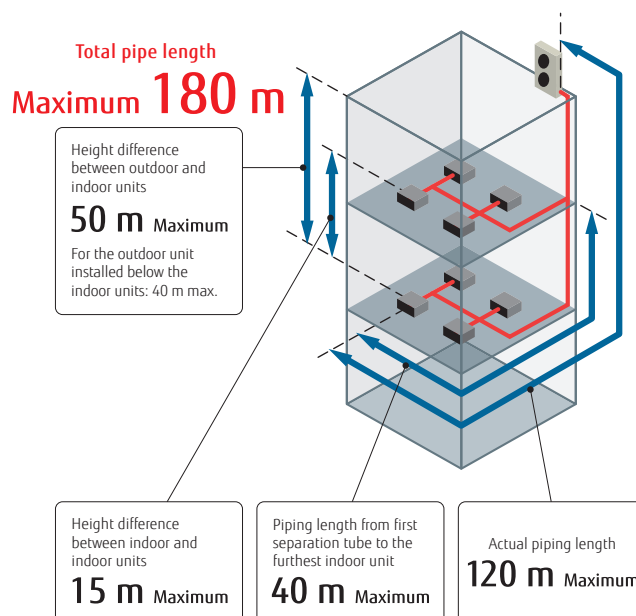
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.

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.

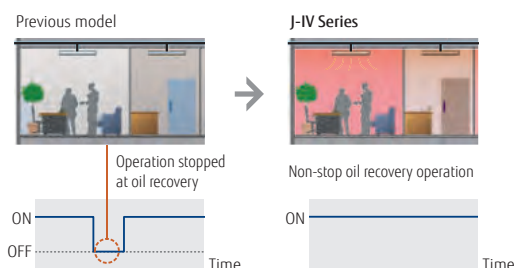
*: 6 HP model

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



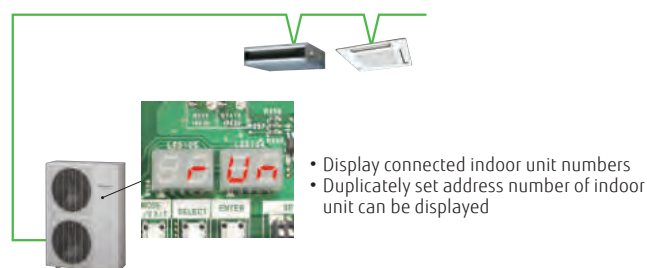
Non-stop oil recovery operation

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.





J-IV

Specifications

Rating Capacity range		HP	4	5	6	4	5	6
Model name			AJY040LBLBH	AJY045LBLBH	AJY054LBLBH	AJY040LELBH	AJY045LELBH	AJY054LELBH
Maximum Connectable Indoor Unit			1-9	1-10	1-13	1-9	1-10	1-13
Power source			Single phase, ~230V, 50Hz			3 phase, ~400V, 50Hz		
Capacity	Cooling	BTU/h (kW)	41,200 (12.1)	47,800 (14.0)	52,800 (15.5)	41,200 (12.1)	47,800 (14.0)	52,800 (15.5)
	Heating		46,400 (13.6)	54,500 (16.0)	61,400 (18.0)	46,400 (13.6)	54,500 (16.0)	61,400 (18.0)
Input power	Cooling	kW	2.90	3.57	4.18	2.79	3.46	3.99
	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
	Heating		4.86	4.51	4.23	5.01	4.70	4.41
Air flow 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 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69
	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
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(CO ₂ eq-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.

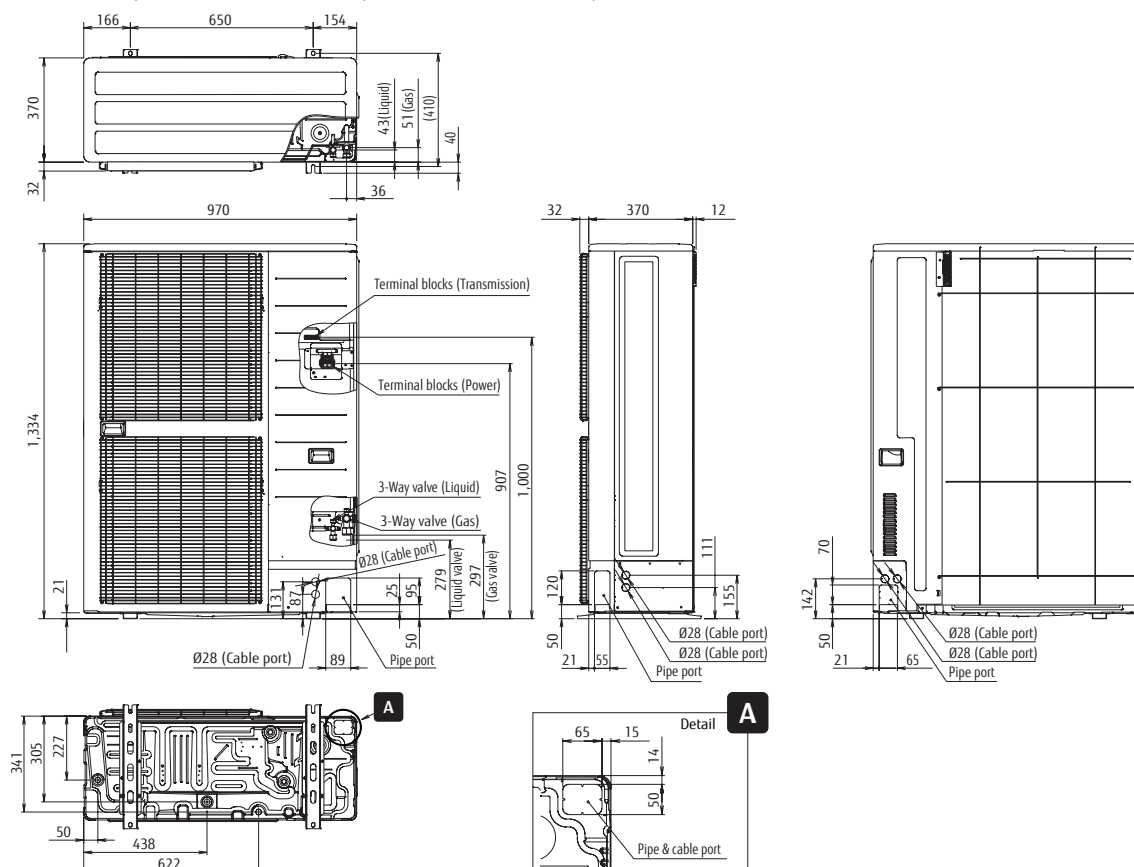
The protective function may work when using it outside the operation range.

Dimensions

Models : AJY040LBLBH / AJY045LBLBH / AJY054LBLBH

AJY040LELBH [3 phase] / AJY045LELBH [3 phase] / AJY054LELBH [3 phase]

(Unit : mm)





Heat Pump

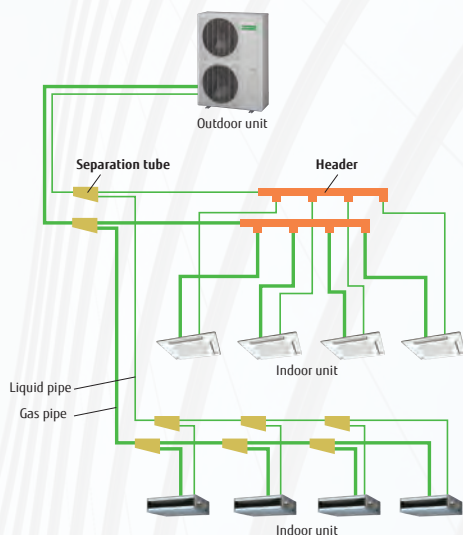
for Small-capacity type

VRF *J-IVL*

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

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.

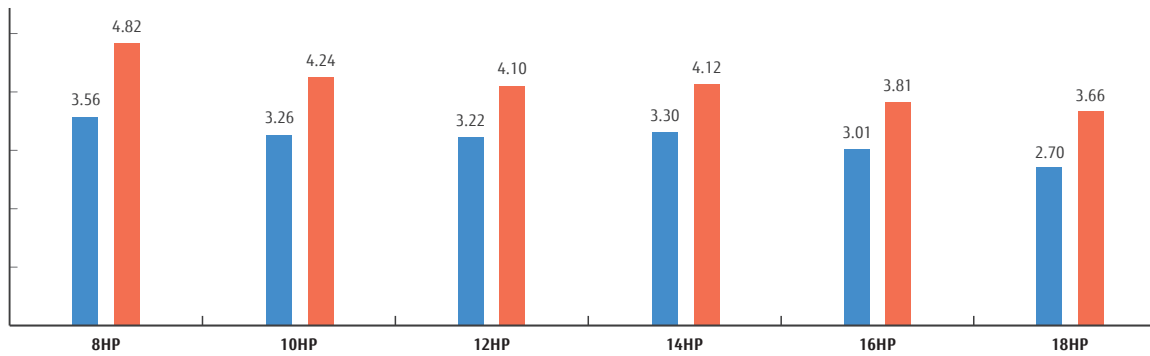


Efficiency in actual operation

Top class high EER/COP is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.

High EER / COP

■ EER / ■ COP



Advanced high efficiency technology



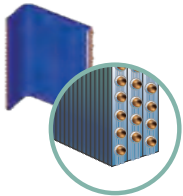
Large propeller fan

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



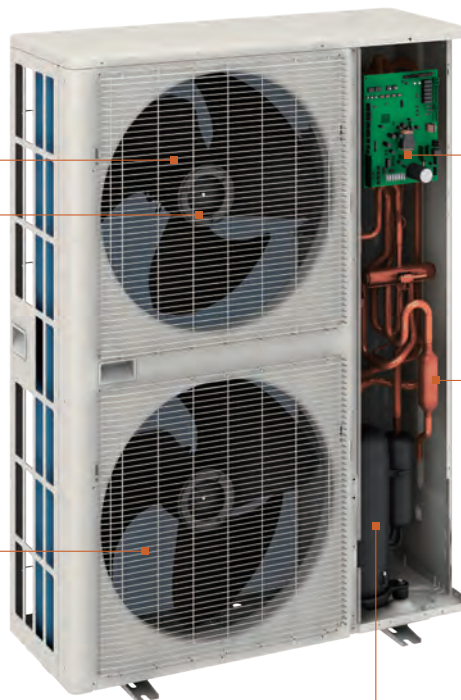
DC fan motor

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.



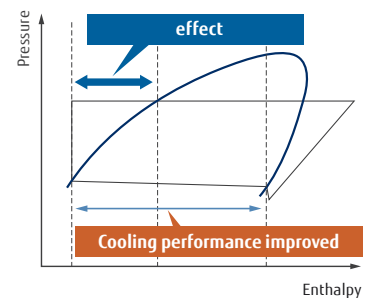
DC inverter control

Efficiency is improved by mounting of new active filter module.



Subcool heat exchanger

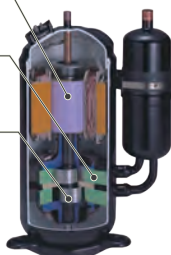
Cooling performance is improved by mounting of dual tube heat exchanger.



High efficiency compressor motor

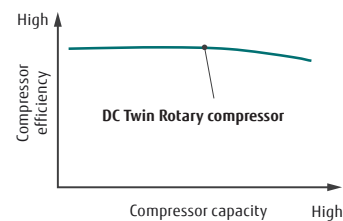
Optimized refrigerant flow design

Highly accurate parts



DC twin rotary compressor

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



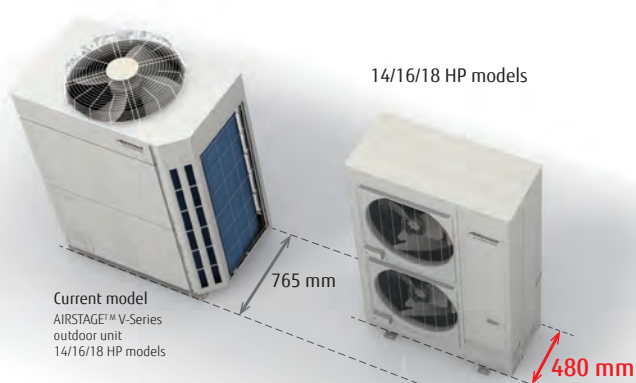


Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.

VRF *J-IVL*

Image: 8/10/12 HP models

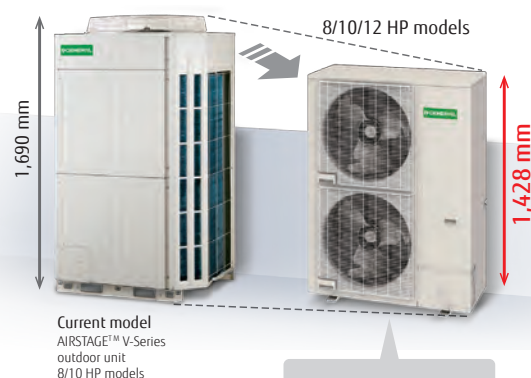
Slim & Compact Design



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

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

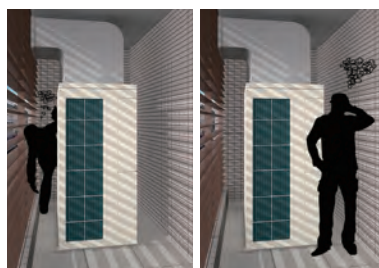
Weight
-58 kg!
Compared with
current 18 HP model



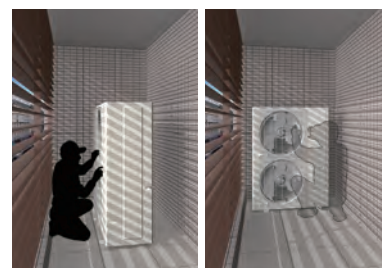
Height difference
-262 mm
Compared with current 8 HP model

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

Various Installation



VRF V Series outdoor unit



VRF J Series outdoor unit

In house installation

Low noise in consideration for the nearby residents

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



VRF V Series outdoor unit



VRF 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.



VRF V Series outdoor unit



VRF J Series outdoor unit

Installation at back street of building

Flexible installation

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

Features

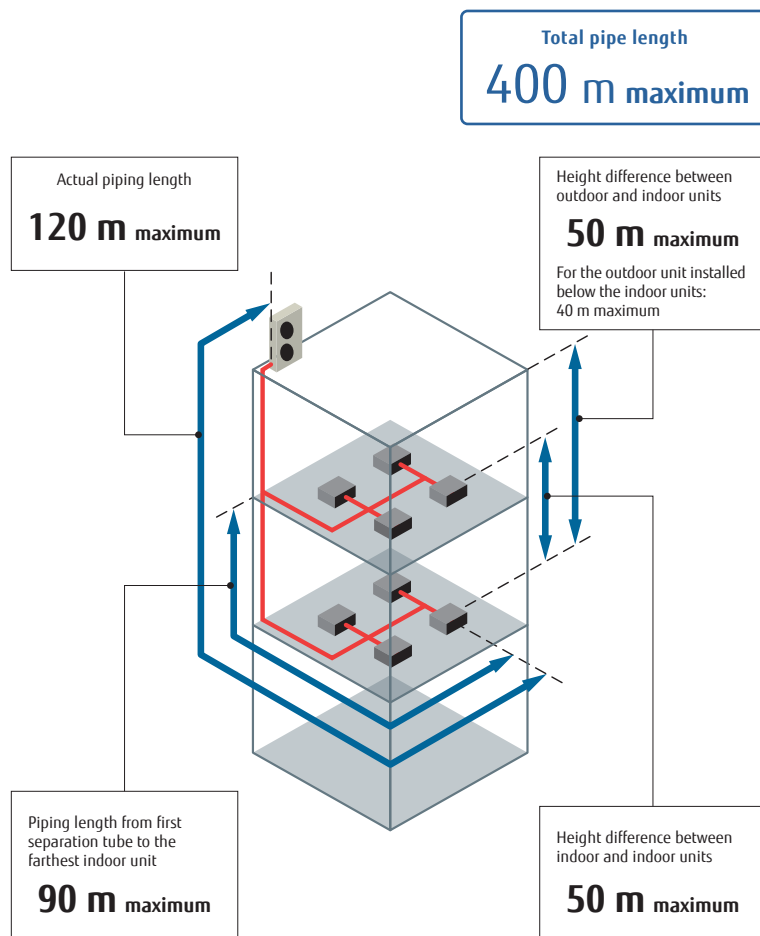
Long piping capability

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 34 units* can be connected

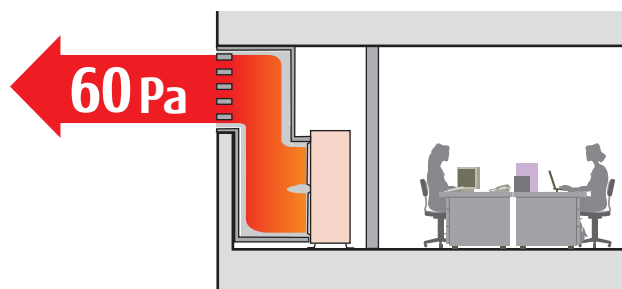
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 34 units.

*: 18HP model



External static pressure

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



Top Class Low Operating Sound

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

Sound Power Level

66 dB(A)



J-IIIIL (8 HP)

77 dB(A)

-11 dB(A)



Current model (8 HP)



8, 10, 12 HP



14, 16, 18 HP

J-IVL

Specifications

Rating Capacity range		HP	8	10	12	14	16	18
Model name			AJY072LELBH	AJY090LELBH	AJY108LELBH	AJY126LELBH	AJY144LELBH	AJY162LELBH
Maximum Connectable Indoor Unit			1-15	1-19	1-22	1-27	1-30	1-34
Power source			3 phase, ~400V, 50Hz					
Capacity	Cooling	BTU/h (kW)	76,400 (22.4)	95,500 (28.0)	114,300(33.5)	136,400 (40.0)	153,500 (45.0)	170,600(50.0)
	Heating		76,400 (22.4)	95,500 (28.0)	114,300(33.5)	136,400 (40.0)	153,500 (45.0)	170,600(50.0)
Input power	Cooling	kW	6.30	8.59	10.42	12.12	14.96	18.52
	Heating		4.65	6.61	8.18	9.71	11.81	13.66
EER	Cooling	W/W	3.56	3.26	3.22	3.30	3.01	2.70
	Heating		4.82	4.24	4.10	4.12	3.81	3.66
Air flow 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 / -	68 / -
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(CO ₂ eq-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.

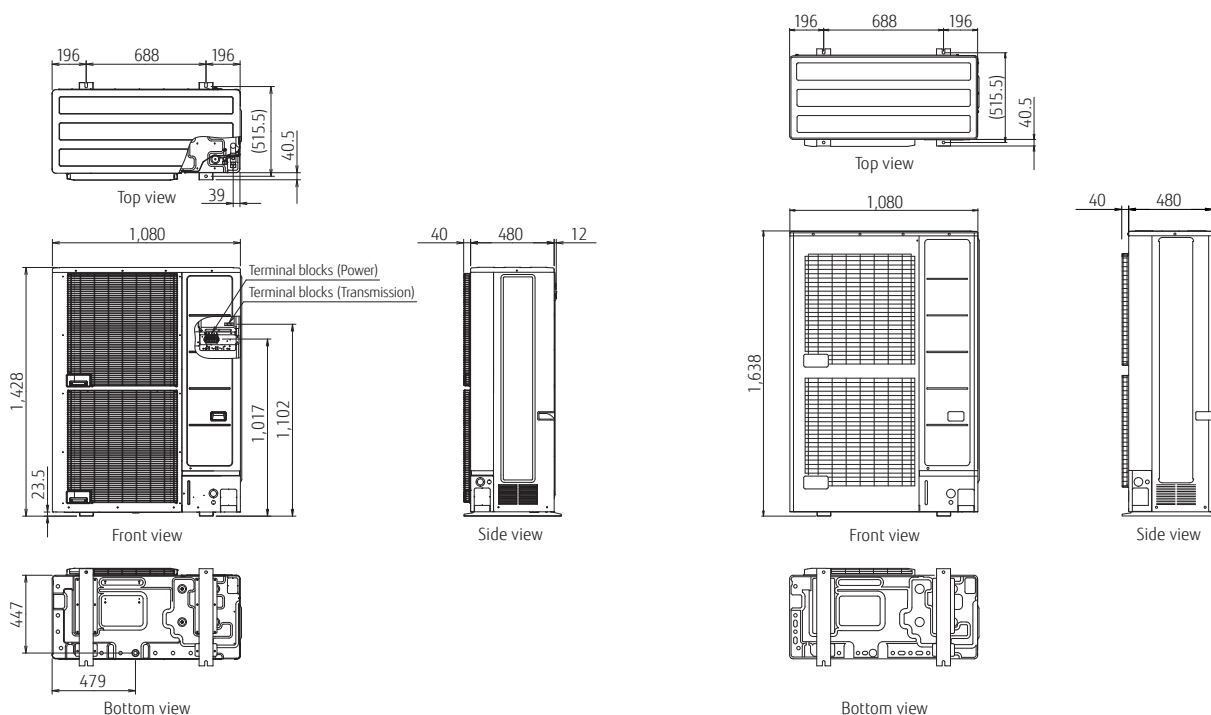
* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6 kW.

Dimensions

Models : AJY072LELBH / AJY090LELBH / AJY108LELBH

Models : AJY126LELBH / AJY144LELBH / AJY162LELBH

(Unit : mm)



NEW



Cooling Only type

VRF VC-V

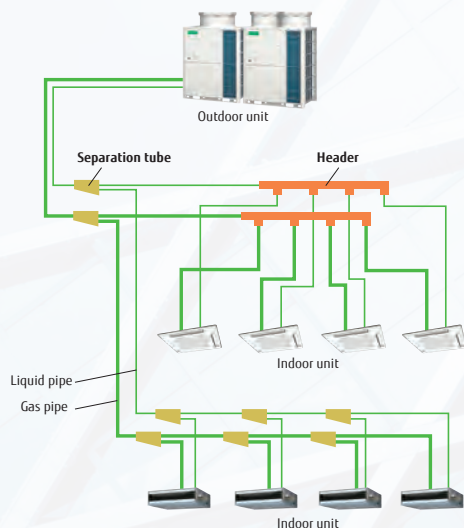
Smart and cutting edge design

Extensive lineup from 8HP to 80HP in 2HP increment

Connectable indoor unit capacity ratio up to 150%

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.



From City to Oasis And to the Future of the Earth



Air conditioning up to 80 HP with one refrigerant system

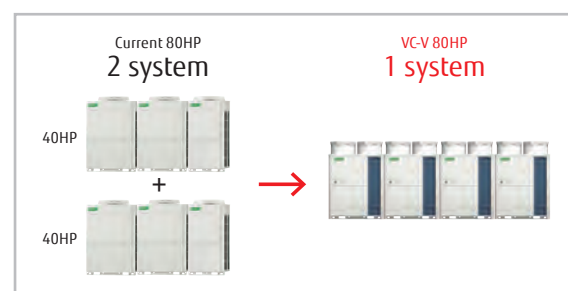
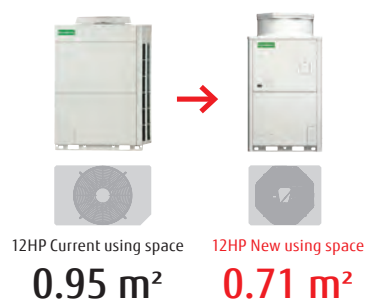
New series **51 systems**

More Wide lineup

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	
Standard combination	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Energy Efficiency					●	●	●		●	●	●	●	●	●	●	●	●	●	●																			

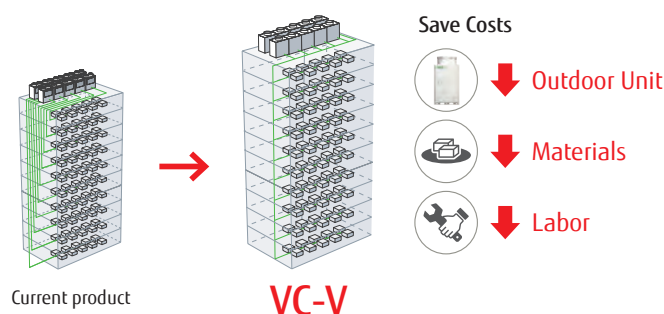
Space saving and compact size

Compact size has been achieved by significantly reducing the chassis of the outdoor units compared to previous models.



Contributes to reduction of project costs

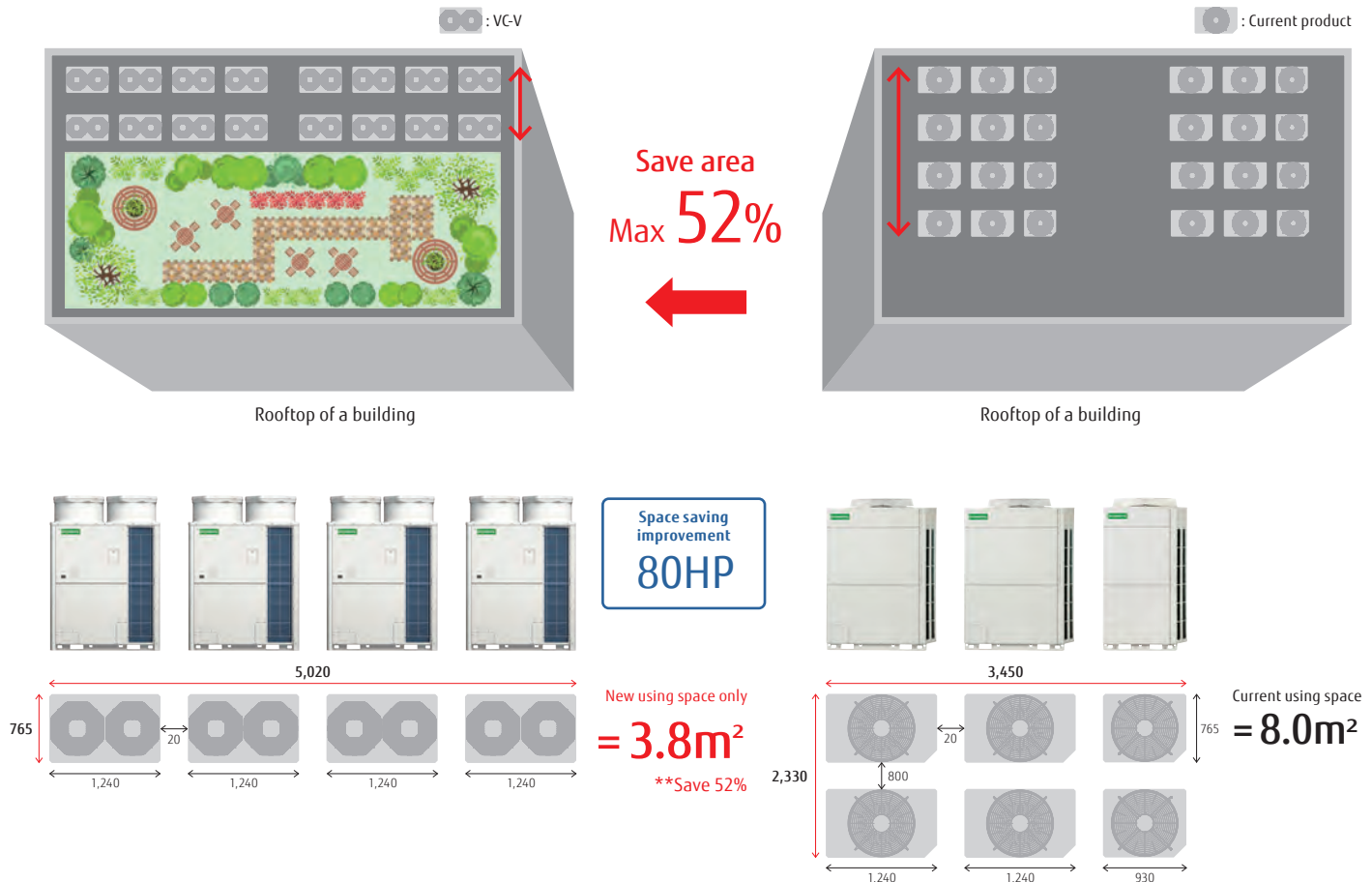
Up to 80 HP can be selected for a single refrigerant system. This reduces the number of outdoor units and materials required for installation (piping, power lines, communication lines, racking, breakers, conduit, etc.) compared to conventional products. This product is expected to reduce project costs.



Reduces the number of systems and installation area

Since the installation area can be reduced, the reduced space can be used for other purposes.
For example, the area can be used as a biotope to contribute to a sustainable future by greening it.

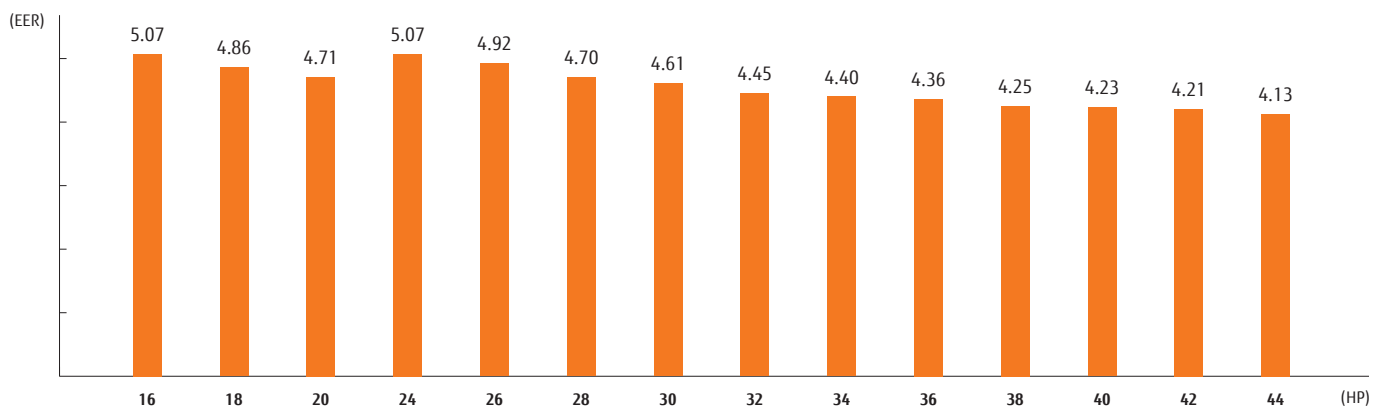
*Comparison of multiple 80 HP systems installed, for example



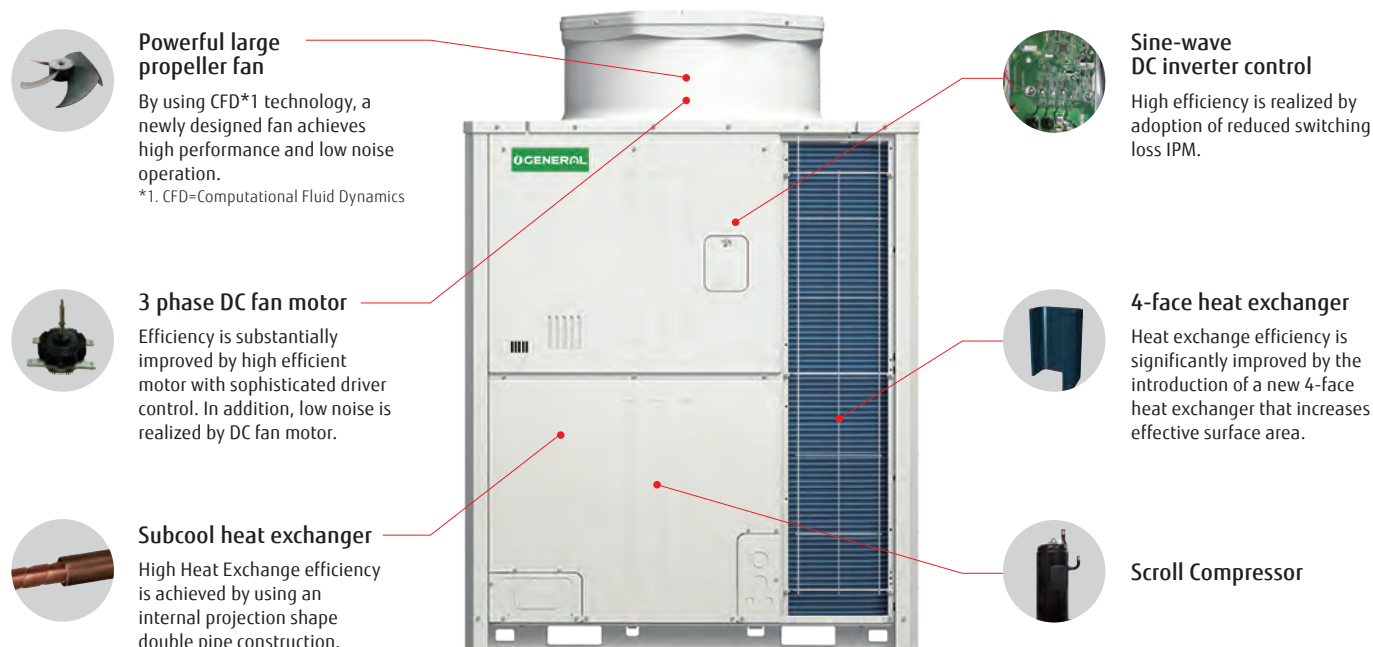
High Energy Efficiency

Class-leading high EER (Maximum) The use of our proprietary heat exchanger structure and high-efficiency Scroll compressors achieves the class-leading coefficient of performance (EER) in every combination.

Energy Efficiency Combinations

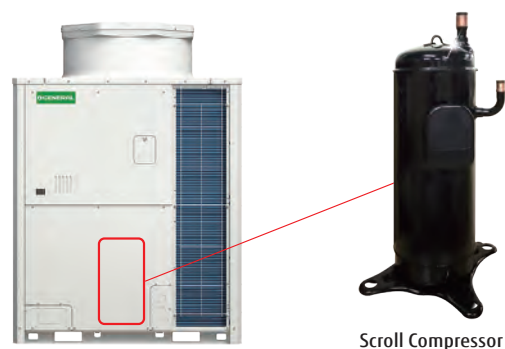


Energy saving technology that boosted operation efficiency



High Performance Scroll Compressor

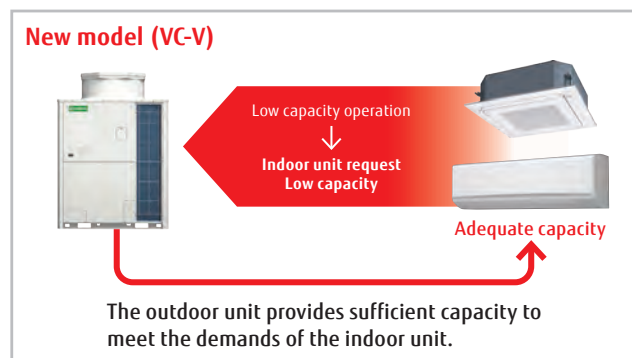
The combination of a scroll compressor and our proprietary sensorless sine-wave control that smoothly controls the input power into the motor can achieve a wider rotational frequency range from 15 to 120 rps, resulting in energy-efficient and quieter operation.



Intelligent Refrigerant Control

Fujitsu General is proposing outdoor units equipped with refrigerant control function.

The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.



* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

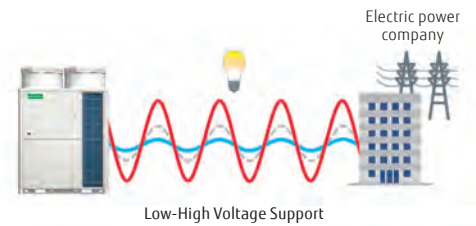
High Reliability

PCB Protection – Low-High voltage support

Even if the product is installed in an area where the power supply (voltage) is not stable, the PCB that controls the product is protected, so the product can be installed with peace of mind.

For example, even if the system goes down due to factors such as lightning strikes, the system will operate at its original operational content when the power is restored, making management easy.

- ✓ Not damaged
- ✓ Protected

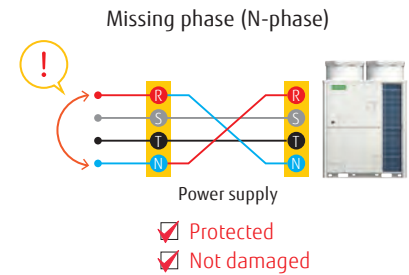
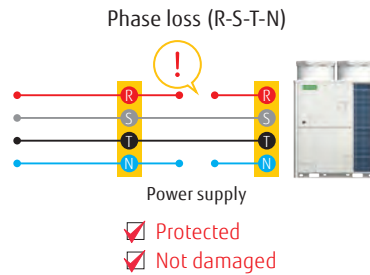
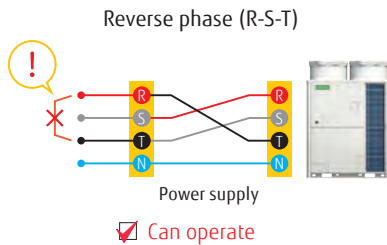


- ✓ Not damaged
- ✓ Protected
- ✓ Can auto recovery



Protects against power supply mis-wiring

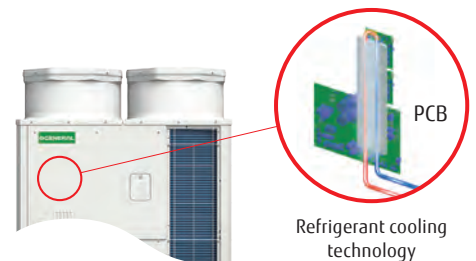
Even if there is a mistake in the wiring connection during the "reverse phase," "phase loss," or "missing phase" of the power connection during installation, the product will not be damaged and can be installed with peace of mind.



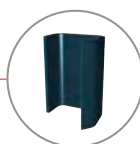
New refrigerant cooling technology

New Refrigerant Cooling Technology, ensures the stability of PCB temperature and improves reliability at high ambient temperatures.

It's possible to cool the inverter power module stability even at high ambient temperatures. This helps to keep air conditioner capacity and also ensures efficient and reliable operation.

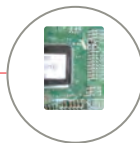


Anti-corrosion



Bluefin heat exchanger

Blue fin treatment of the condenser offers improved corrosion resistance and longer life of the heat exchanger. Adoption blue coating for the fins in the heat exchanger provides protection against rust and salt damage.



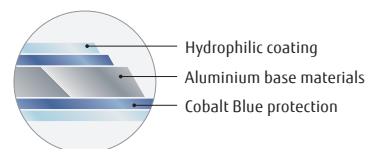
Silicon coated PCB

High-ambient-temperature-compatible electronic components are used. Silicon coating is applied to all PCB circuits for corrosion protection.



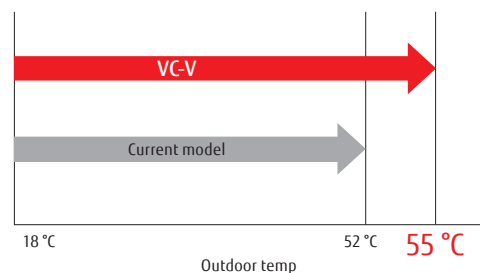
High corrosion screw

Zinc-chrome-acid film treatment applied to all screws.



Wide operating range

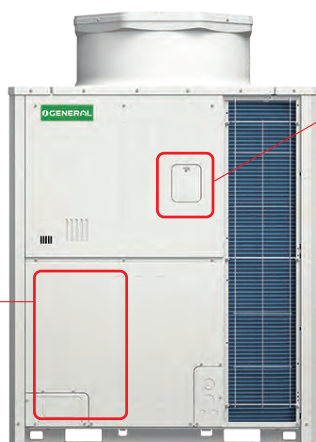
Designed to perform at ambient conditions as high as 55 °C. Installation in extreme temperature conditions is possible due to an increased operational range.



Design for easy service and maintenance

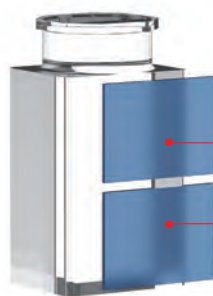
Service space

New design for easy maintenance and service space design without moving control box in order to maintenance



Access panel

Comes with an access panel that allows you to access 7 segments and push buttons without removing the panel.

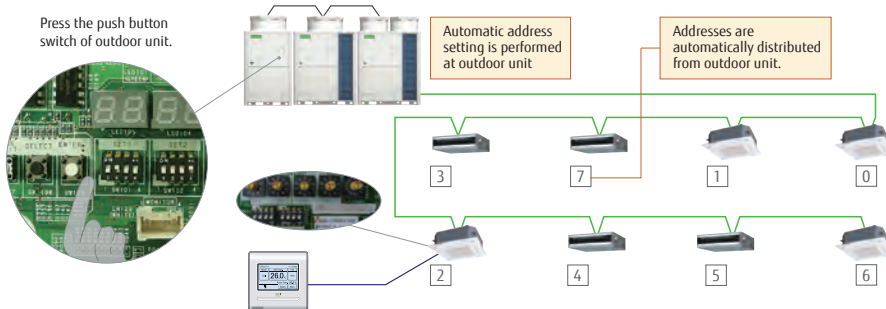


The split service panel allows for maintenance from the top or bottom of the outdoor unit.

*The bottom panel can not be removed without removing the top panel.

Automatic address setting

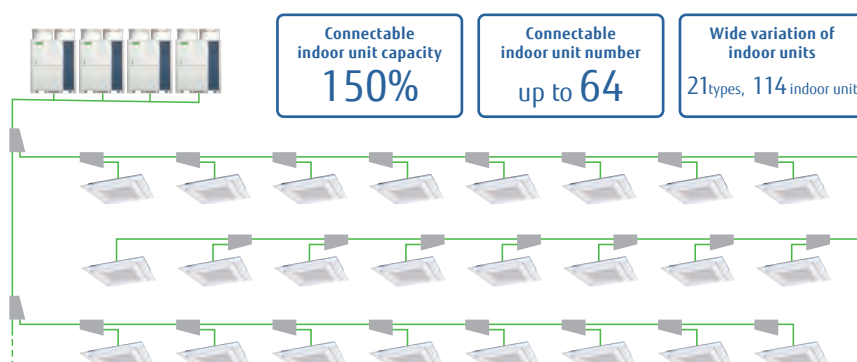
The address of the indoor unit and signal amplifier can be set through the automatic function setting on the outdoor unit PCB.



Manual address setting from indoor unit and remote controller is also possible.

Various combinations
























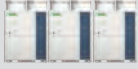













Various combination from 8HP to 80HP increments. 15 type, 147 models of indoor units can be selected ranging from 2.2kW to 28kW in capacity. A maximum of 150% indoor unit connectable capacity.

















Outdoor units lineup

• Combinations other than the followings are not recommended.

Standard combination

22.4kW (8HP)  AJG072JATAH UNIT : AJG072JATAH	28.0kW (10HP)  AJG090JATAH UNIT : AJG090JATAH	33.5kW (12HP)  AJG108JATAH UNIT : AJG108JATAH	40.0kW (14HP)  AJG126JATAH UNIT : AJG126JATAH	45.0kW (16HP)  AJG144JATAH UNIT : AJG144JATAH	50.0 kW (18HP)  AJG162JATAH UNIT : AJG162JATAH
56.0 kW (20HP)  AJG180JATAH UNIT : AJG180JATAH	61.5 kW (22HP)  AJG198JATAH UNIT : AJG108/090JATAH	67.0 kW (24HP)  AJG216JATAH UNIT : AJG108/108JATAH	73.5 kW (26HP)  AJG234JATAH UNIT : AJG126/108JATAH	78.5 kW (28HP)  AJG252JATAH UNIT : AJG144/108JATAH	83.5 kW (30HP)  AJG270JATAH UNIT : AJG162/108JATAH
90.0 kW (32HP)  AJG288JATAH UNIT : AJG144/144JATAH	95.0 kW (34HP)  AJG306JATAH UNIT : AJG162/144JATAH	100.0 kW (36HP)  AJG324JATAH UNIT : AJG162/162JATAH	106.0 kW (38HP)  AJG342JATAH UNIT : AJG180/162JATAH	112.0 kW (40HP)  AJG360JATAH UNIT : AJG180/180JATAH	117.0 kW (42HP)  AJG378JATAH UNIT : AJG162/108/108JATAH
123.0 kW (44HP)  AJG396JATAH UNIT : AJG180/108/108JATAH	130.0 kW (46HP)  AJG414JATAH UNIT : AJG162/126/126JATAH	135.0 kW (48HP)  AJG432JATAH UNIT : AJG162/144/126JATAH	140.0 kW (50HP)  AJG450JATAH UNIT : AJG162/162/126JATAH	145.0 kW (52HP)  AJG468JATAH UNIT : AJG162/162/144JATAH	150.0 kW (54HP)  AJG486JATAH UNIT : AJG162/162/162JATAH
156.0 kW (56HP)  AJG504JATAH UNIT : AJG180/162/162JATAH	162.0 kW (58HP)  AJG522JATAH UNIT : AJG180/180/162JATAH	168.0 kW (60HP)  AJG540JATAH UNIT : AJG180/180/180JATAH	173.0 kW (62HP)  AJG558JATAH UNIT : AJG180/162/108/108JATAH	179.0 kW (64HP)  AJG576JATAH UNIT : AJG180/180/108/108JATAH	183.5 kW (66HP)  AJG594JATAH UNIT : AJG162/162/162/108JATAH
189.5 kW (68HP)  AJG612JATAH UNIT : AJG180/162/162/108JATAH	195.5 kW (70HP)  AJG630JATAH UNIT : AJG180/180/162/108JATAH	201.5 kW (72HP)  AJG648JATAH UNIT : AJG180/180/180/108JATAH	206.0 kW (74HP)  AJG666JATAH UNIT : AJG180/162/162/162JATAH	212.0 kW (76HP)  AJG684JATAH UNIT : AJG180/180/162/162JATAH	218.0 kW (78HP)  AJG702JATAH UNIT : AJG180/180/180/162JATAH
224.0 kW (80HP)  AJG720JATAH UNIT : AJG180/180/180/180JATAH					

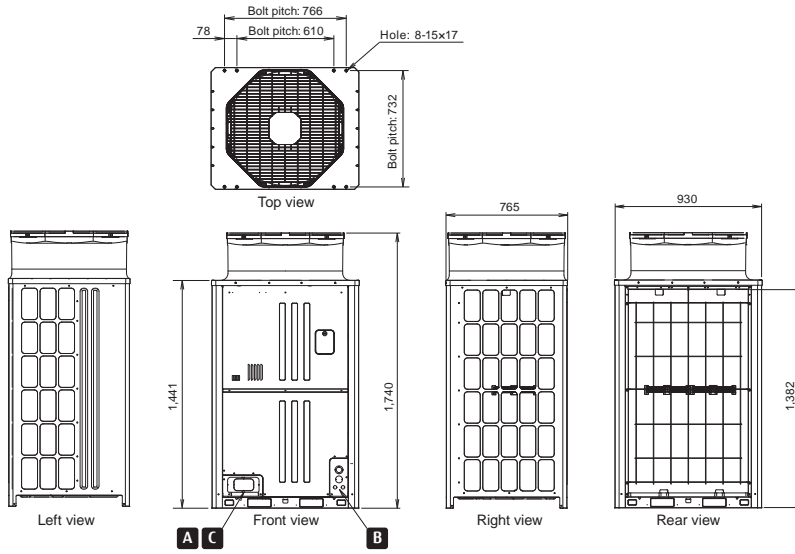
Energy efficiency combinations

44.8 kW (16HP)  AJG144JATAHH UNIT : AJG072/072JATAH	50.4 kW (18HP)  AJG162JATAHH UNIT : AJG090/072JATAH	56.0 kW (20HP)  AJG180JATAHH UNIT : AJG090/090JATAH	67.2 kW (24HP)  AJG216JATAHH UNIT : AJG072/072/072JATAH	72.8 kW (26HP)  AJG234JATAHH UNIT : AJG090/072/072JATAH	78.3 kW (28HP)  AJG252JATAHH UNIT : AJG108/072/072JATAH
83.9 kW (30HP)  AJG270JATAHH UNIT : AJG108/090/072JATAH	89.4 kW (32HP)  AJG288JATAHH UNIT : AJG108/108/072JATAH	95.0 kW (34HP)  AJG306JATAHH UNIT : AJG108/108/090JATAH	101.5 kW (36HP)  AJG324JATAHH UNIT : AJG126/108/090JATAH	107.0 kW (38HP)  AJG342JATAHH UNIT : AJG126/108/108JATAH	113.5 kW (40HP)  AJG360JATAHH UNIT : AJG126/126/108JATAH
120.0 kW (42HP)  AJG378JATAHH UNIT : AJG126/126/126JATAH	125.0 kW (44HP)  AJG396JATAHH UNIT : AJG144/126/126JATAH				

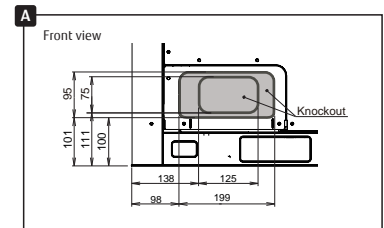
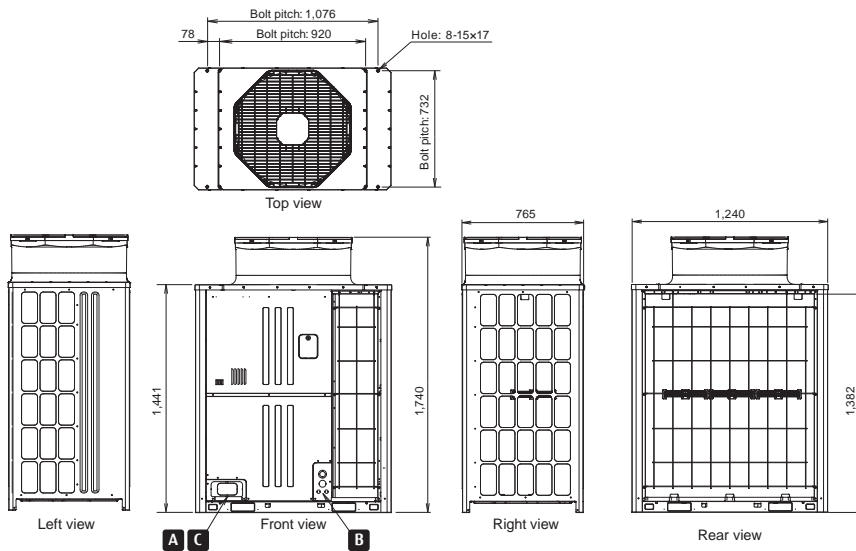
Dimensions

8,10,12HP : AJG072JATAH / AJG090JATAH / AJG108JATAH

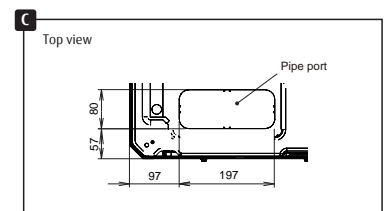
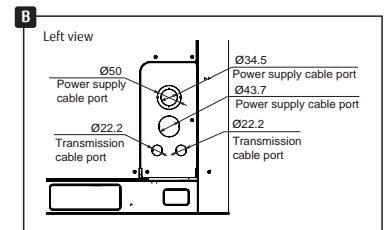
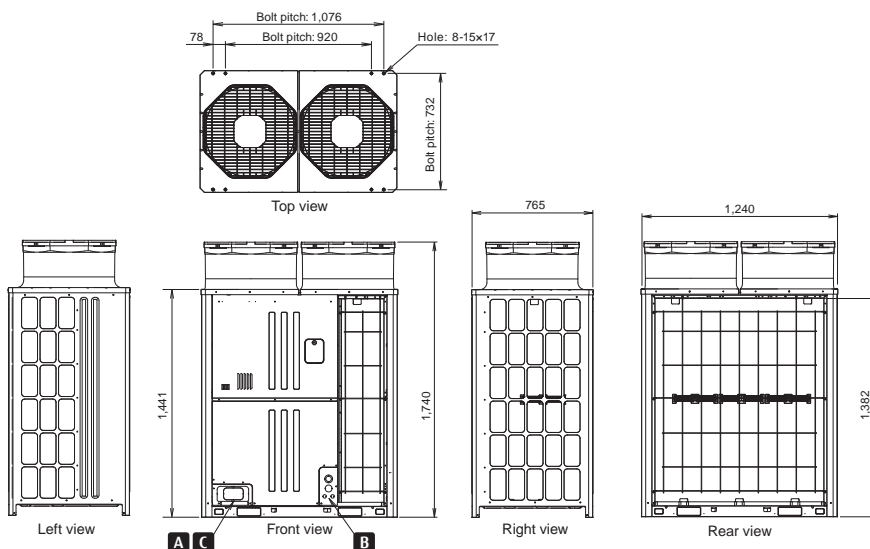
(Unit : mm)



14,16HP : AJG126JATAH / AJG144JATAH








18,20HP : AJG162JATAH / AJG180JATAH



Outdoor units specifications












Standard combination

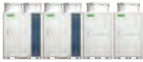
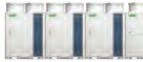



Rating Capacity range			HP	8	10	12	14	16	18	20	22
											
Model name				AJG072JATAH	AJG090JATAH	AJG108JATAH	AJG126JATAH	AJG144JATAH	AJG162JATAH	AJG180JATAH	AJG198JATAH
Unit 1 Unit 2 Unit 3 Unit 4				AJG072JATAH	AJG090JATAH	AJG108JATAH	AJG126JATAH	AJG144JATAH	AJG162JATAH	AJG180JATAH	AJG108JATAH AJG090JATAH
Maximum Connectable Indoor Unit				15	19	22	27	30	34	38	41
Indoor unit connectable capacity	Cooling	kW		11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.0-75.0	28.0-84.0	30.8-92.2
Power source				3N 400 V ~ 50/60 Hz							
Capacity	Cooling	kW		22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5
		Btu/h		76,400	95,500	114,300	136,500	153,500	170,600	191,100	209,800
Input power	Cooling	kW		4.42	5.95	7.83	9.50	11.25	14.70	17.72	13.78
EER	Cooling	W/W		5.07	4.71	4.28	4.21	4.00	3.40	3.16	4.46
Air flow rate	Rated	m³/h		10,200	10,200	10,200	13,700	13,700	15,500	16,800	10,200 × 2
Sound pressure level*1	Cooling	dB (A)		55	55	56	62	63	64	67	59
Maximum external static pressure			Pa	82	82	82	82	82	82	82	82
Compressor motor output			kW	4.7	4.7	4.7	4.7	4.7	6.2	6.2	4.7 × 2
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm		1,740	1,740	1,740	1,740	1,740	1,740	1,740	1740
	Width			930	930	930	1,240	1,240	1,240	1,240	930 × 2
	Depth			765	765	765	765	765	765	765	765
Weight			kg	209	209	209	232	232	255	255	209 × 2
Refrigerant	Type (Global Warming Potential)			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge		kg	9.7	9.7	9.7	11.8	11.8	11.8	11.8	9.7 × 2
Connection pipe diameter	Liquid	mm		9.52	9.52	12.70	12.70	12.70	15.88	15.88	15.88
	Discharge Gas			19.05	22.22	28.58	28.58	28.58	28.58	28.58	28.58
Operating range			Cooling °C	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55

Rating Capacity range			HP	46	48	50	52	54	56	58	60
											
Model name				AJG414JATAH	AJG432JATAH	AJG450JATAH	AJG468JATAH	AJG486JATAH	AJG504JATAH	AJG522JATAH	AJG540JATAH
Unit 1				AJG162JATAH	AJG162JATAH	AJG162JATAH	AJG162JATAH	AJG162JATAH	AJG162JATAH	AJG180JATAH	AJG180JATAH
Unit 2				AJG126JATAH	AJG144JATAH	AJG162JATAH	AJG162JATAH	AJG162JATAH	AJG162JATAH	AJG180JATAH	AJG180JATAH
Unit 3				AJG126JATAH	AJG126JATAH	AJG126JATAH	AJG144JATAH	AJG162JATAH	AJG162JATAH	AJG162JATAH	AJG180JATAH
Unit 4											
Maximum Connectable Indoor Unit				64	64	64	64	64	64	64	64
Indoor unit connectable capacity	Cooling	kW		65.0-195.0	67.5-202.5	70.0-210.0	72.5-217.5	75.0-225.0	78.0-234.0	81.0-243.0	84.0-252.0
Power source				3N 400 V ~ 50/60 Hz							
Capacity	Cooling	kW		130.0	135.0	140.0	145.0	150.0	156.0	162.0	168.0
		Btu/h		443,600	460,600	477,700	494,800	511,800	532,300	552,800	573,200
Input power	Cooling	kW		33.70	35.45	38.90	40.65	44.10	47.12	50.14	53.16
EER	Cooling	W/W		3.86	3.81	3.60	3.57	3.40	3.31	3.23	3.16
Air flow rate	Rated	m³/h		13,700 × 2 + 15,500	13,700 × 2 + 15,500	13,700 + 15,500 × 2	13,700 + 15,500 × 2	15,500 × 3	15,500 × 2 + 16,800	15,500 + 16800 × 2	16,800 × 3
Sound pressure level*1	Cooling	dB (A)		68	68	68	68	69	70	71	72
Maximum external static pressure				Pa	82	82	82	82	82	82	82
Compressor motor output				kW	4.7 × 2 + 6.2	4.7 × 2 + 6.2	4.7 + 6.2 × 2	4.7 + 6.2 × 2	6.2 × 3	6.2 × 3	6.2 × 3
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm		1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740
	Width			1,240 × 3	1,240 × 3	1,240 × 3	1,240 × 3	1,240 × 3	1,240 × 3	1,240 × 3	1,240 × 3
	Depth			765	765	765	765	765	765	765	765
Weight			kg	232 × 2 + 255	232 × 2 + 255	232 + 255 × 2	232 + 255 × 2	255 × 3	255 × 3	255 × 3	255 × 3
Refrigerant	Type (Global Warming Potential)			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge		kg	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3
Connection pipe diameter	Liquid	mm		19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Discharge Gas			41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operating range	Cooling	°C		10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55

NOTES:



- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
 - Pipe length: 7.5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- This data is based on following standard: EN14511, EN12102.
- Protective function might work when using it outside the operation range.
- *1: Sound pressure level:
 - Measured values in manufacturer's anechoic chamber.
 - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

24	26	28	30	32	34	36	38	40	42	44
										
AJG216JATAH AJG108JATAH AJG108JATAH	AJG234JATAH AJG126JATAH AJG108JATAH	AJG252JATAH AJG144JATAH AJG108JATAH	AJG270JATAH AJG162JATAH AJG108JATAH	AJG288JATAH AJG144JATAH AJG144JATAH	AJG306JATAH AJG162JATAH AJG144JATAH	AJG324JATAH AJG162JATAH AJG162JATAH	AJG342JATAH AJG180JATAH AJG162JATAH	AJG360JATAH AJG180JATAH AJG180JATAH	AJG378JATAH AJG162JATAH AJG108JATAH AJG108JATAH	AJG396JATAH AJG180JATAH AJG108JATAH AJG108JATAH
45	50	53	56	61	64	64	64	64	64	64
33.5-100.5	36.8-110.2	39.3-117.7	41.8-125.2	45.0-135.0	47.5-142.5	50.0-150.0	53.0-159.0	56.0-168.0	58.5-175.5	61.5-184.5
3N 400 V - 50/60 Hz										
67.0	73.5	78.5	83.5	90.0	95.0	100.0	106.0	112.0	117.0	123.0
228,600	250,800	267,900	284,900	307,100	324,200	341,200	361,700	382,200	399,200	419,700
15.66	17.33	19.08	22.53	22.50	25.95	29.40	32.42	35.44	30.36	33.38
4.28	4.24	4.11	3.71	4.00	3.66	3.40	3.27	3.16	3.85	3.68
10,200 × 2	10,200 + 13,700	10,200 + 13,700	10,200 + 15,500	13,700 × 2	13,700 + 15,500	15,500 × 2	15,500 + 16,800	16,800 × 2	10,200 × 2 + 15,500	10,200 × 2 + 16,800
59	63	64	65	66	67	67	69	70	65	68
82	82	82	82	82	82	82	82	82	82	82
4.7 × 2	4.7 × 2	4.7 × 2	4.7 + 6.2	4.7 × 2	4.7 + 6.2	6.2 × 2	6.2 × 2	6.2 × 2	4.7 × 2 + 6.2	4.7 × 2 + 6.2
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1740	1740	1740	1740	1740	1740	1740	1740	1740	1740	1740
930 × 2	1,240 + 930	1,240 + 930	1,240 + 930	1,240 × 2	1,240 × 2	1,240 × 2	1,240 × 2	1,240 × 2	1,240 + 930 × 2	1,240 + 930 × 2
765	765	765	765	765	765	765	765	765	765	765
209 × 2	209 + 232	209 + 232	209 + 255	232 × 2	232 + 255	255 × 2	255 × 2	255 × 2	209 × 2 + 255	207 × 2 + 255
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
9.7 × 2	9.7 + 11.8	9.7 + 11.8	9.7 + 11.8	11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 2	9.7 × 2 + 11.8	9.7 × 2 + 11.8
15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27
10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55

62	64	66	68	70	72	74	76	78	80
									
AJG558JATAH AJG180JATAH AJG162JATAH AJG108JATAH AJG108JATAH	AJG576JATAH AJG180JATAH AJG180JATAH AJG162JATAH AJG108JATAH AJG108JATAH	AJG594JATAH AJG162JATAH AJG162JATAH AJG162JATAH AJG108JATAH	AJG612JATAH AJG180JATAH AJG162JATAH AJG162JATAH AJG108JATAH AJG108JATAH	AJG630JATAH AJG180JATAH AJG162JATAH AJG162JATAH AJG108JATAH AJG108JATAH	AJG648JATAH AJG180JATAH AJG180JATAH AJG162JATAH AJG180JATAH AJG108JATAH	AJG666JATAH AJG180JATAH AJG162JATAH AJG162JATAH AJG162JATAH	AJG684JATAH AJG180JATAH AJG180JATAH AJG162JATAH AJG162JATAH	AJG702JATAH AJG180JATAH AJG180JATAH AJG162JATAH AJG162JATAH	AJG720JATAH AJG180JATAH AJG180JATAH AJG162JATAH AJG108JATAH AJG108JATAH
64	64	64	64	64	64	64	64	64	64
86.5-259.5	89.5-268.5	91.8 - 275.2	94.8 - 284.2	97.8 - 293.2	100.8 - 302.2	103.0-309.0	106.0-318.0	109.0-327.0	112.0-336.0
3N 400 V - 50/60 Hz									
173.0	179.0	183.5	189.5	195.5	201.5	206.0	212.0	218.0	224.0
590,300	610,800	626,100	646,600	667,100	687,500	702,900	723,400	743,800	764,300
48.08	51.10	51.93	54.95	57.97	60.99	61.82	64.84	67.86	70.88
3.60	3.50	3.53	3.45	3.37	3.30	3.33	3.27	3.21	3.16
10,200 × 2 + 15,500 + 16,800	10,200 × 2 + 16,800 × 2	10,200 + 15,500 × 3	10,200 + 15,500 + 15,500 × 2 + 16,800	10,200 + 15,500 + 16,800 × 2	10,200 + 16,800 × 3	15,500 × 3 + 16,800	15,500 × 2 + 16,800 × 2	15,500 + 16,800 × 3	16,800 × 4
69	70	69	70	71	72	71	72	72	73
82	82	82	82	82	82	82	82	82	82
4.7 × 2 + 6.2 × 2	4.7 × 2 + 6.2 × 2	4.7 + 6.2 × 3	4.7 + 6.2 × 3	4.7 + 6.2 × 3	4.7 + 6.2 × 3	6.2 × 4	6.2 × 4	6.2 × 4	6.2 × 4
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740
1,240 × 2 + 930 × 2	1,240 × 2 + 930 × 2	1,240 × 3 + 930	1,240 × 3 + 930	1,240 × 3 + 930	1,240 × 3 + 930	1,240 × 4	1,240 × 4	1,240 × 4	1,240 × 4
765	765	765	765	765	765	765	765	765	765
209 × 2 + 255 × 2	209 × 2 + 255 × 2	209 + 255 × 3	209 + 255 × 3	209 + 255 × 3	209 + 255 × 3	255 × 4	255 × 4	255 × 4	255 × 4
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
9.7 × 2 + 11.8 × 2	9.7 × 2 + 11.8 × 2	9.7 + 11.8 × 3	9.7 + 11.8 × 3	9.7 + 11.8 × 3	9.7 + 11.8 × 3	11.8 × 4	11.8 × 4	11.8 × 4	11.8 × 4
19.05	19.05	19.05	19.05	19.05	19.05	22.22	22.22	22.22	22.22
41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55


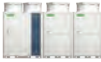
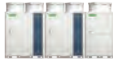

Outdoor units specifications

Energy Efficiency Combinations

Rating Capacity range			HP	16	18	20	24	26	28
									
Model name				AJG144JATAHH	AJG162JATAHH	AJG180JATAHH	AJG216JATAHH	AJG234JATAHH	AJG252JATAHH
Unit 1 Unit 2 Unit 3				AJG072JATAH AJG072JATAH	AJG090JATAH AJG072JATAH	AJG090JATAH AJG090JATAH	AJG072JATAH AJG072JATAH AJG072JATAH	AJG090JATAH AJG072JATAH AJG072JATAH	AJG108JATAH AJG072JATAH AJG072JATAH
Maximum Connectable Indoor Unit				30	34	38	45	49	53
Indoor unit connectable capacity	Cooling	kW	22.4-67.2	25.2-75.6	28.0-84.0	33.6-100.8	36.4-109.2	39.2-117.4	
Power source				3N 400 V ~ 50/60 Hz					
Capacity	Cooling	kW	44.8	50.4	56.0	67.2	72.8	78.3	
		Btu/h	152,900	172,000	191,100	229,300	248,400	267,200	
Input power	Cooling	kW	8.84	10.37	11.90	13.26	14.79	16.67	
EER	Cooling	W/W	5.07	4.86	4.71	5.07	4.92	4.70	
Air flow rate	Rated	m³/h	10,200 × 2	10,200 × 2	10,200 × 2	10,200 × 3	10,200 × 3	10,200 × 3	
Sound pressure level*1	Cooling	dB (A)	58	58	58	60	60	60	
Maximum external static pressure		Pa	82	82	82	82	82	82	
Compressor motor output		kW	4.7 × 2	4.7 × 2	4.7 × 2	4.7 × 3	4.7 × 3	4.7 × 3	
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	
Dimensions	Height	mm	1,740	1,740	1,740	1,740	1,740	1,740	
	Width		930 × 2	930 × 2	930 × 2	930 × 3	930 × 3	930 × 3	
	Depth		765	765	765	765	765	765	
Weight		kg	209 × 2	209 × 2	209 × 2	209 × 3	209 × 3	209 × 3	
Refrigerant	Type (Global Warming Potential)		R410A	R410A	R410A	R410A	R410A	R410A	
	Charge		kg	9.7 × 2	9.7 × 2	9.7 × 2	9.7 × 3	9.7 × 3	
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	
	Discharge Gas		28.58	28.58	28.58	34.92	34.92	34.92	
Operating range		Cooling °C	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	

NOTES:

- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
 - Pipe length: 7.5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- This data is based on following standard: EN14511, EN12102.
- Protective function might work when using it outside the operation range.
- *1: Sound pressure level:
 - Measured values in manufacturer's anechoic chamber.
 - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

30	32	34	36	38	40	42	44
							
AJG270JATAHH	AJG288JATAHH	AJG306JATAHH	AJG324JATAHH	AJG342JATAHH	AJG360JATAHH	AJG378JATAHH	AJG396JATAHH
AJG108JATAH AJG090JATAH AJG072JATAH	AJG108JATAH AJG108JATAH AJG072JATAH	AJG108JATAH AJG108JATAH AJG090JATAH	AJG126JATAH AJG108JATAH AJG090JATAH	AJG126JATAH AJG108JATAH AJG108JATAH	AJG126JATAH AJG126JATAH AJG108JATAH	AJG126JATAH AJG126JATAH AJG126JATAH	AJG144JATAH AJG126JATAH AJG126JATAH
57	60	64	64	64	64	64	64
42.0-125.8	44.7-134.1	47.5-142.5	50.8-152.2	53.5-160.5	56.8-170.2	60.0-180.0	62.5-187.5
3N 400 V ~ 50/60 Hz							
83.9	89.4	95.0	101.5	107.0	113.5	120.0	125.0
286,300	305,000	324,200	346,300	365,100	387,300	409,500	426,500
18.20	20.08	21.61	23.28	25.16	26.83	28.50	30.25
4.61	4.45	4.40	4.36	4.25	4.23	4.21	4.13
10,200 × 3	10,200 × 3	10,200 × 3	10,200 × 2 + 13,700	10,200 × 2 + 13,700	10,200 + 13,700 × 2	13,700 × 3	13,700 × 3
60	60	60	64	64	66	67	67
82	82	82	82	82	82	82	82
4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740
930 × 3	930 × 3	930 × 3	1,240 + 930 × 2	1,240 + 930 × 2	1,240 × 2 + 930	1,240 × 3	1,240 × 3
765	765	765	765	765	765	765	765
209 × 3	209 × 3	209 × 3	209 × 2 + 232	209 × 2 + 232	209 + 232 × 2	232 × 3	232 × 3
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
9.7 × 3	9.7 × 3	9.7 × 3	9.7 × 2 + 11.8	9.7 × 2 + 11.8	9.7 + 11.8 × 2	11.8 × 3	11.8 × 3
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
10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55



Heat Pump

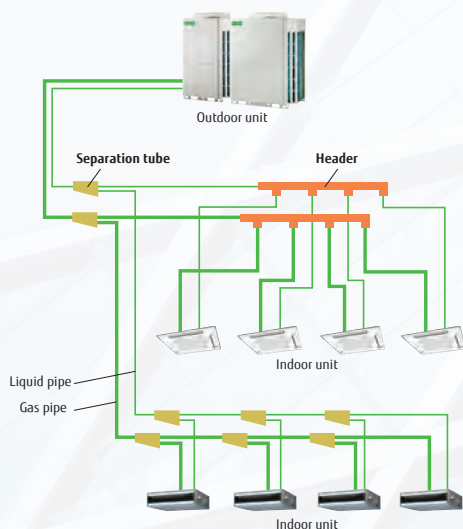
Modular type

VRF V-III Tropical TROPICAL SPEC

Fujitsu General tropical VRF is designed for tropical weather.
Extensive lineup from 8HP to 54HP in 2HP increment
Connectable indoor unit capacity ratio up to 130%

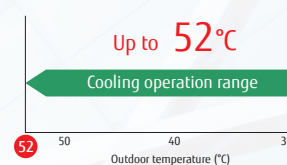
System configuration example

- 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.

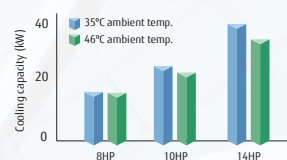


System Outline

High ambient operation design
Possible to operate cooling up to 52°C outdoor temperature



Powerful cooling capacity design
Keeping high cooling power at even high ambient temperature

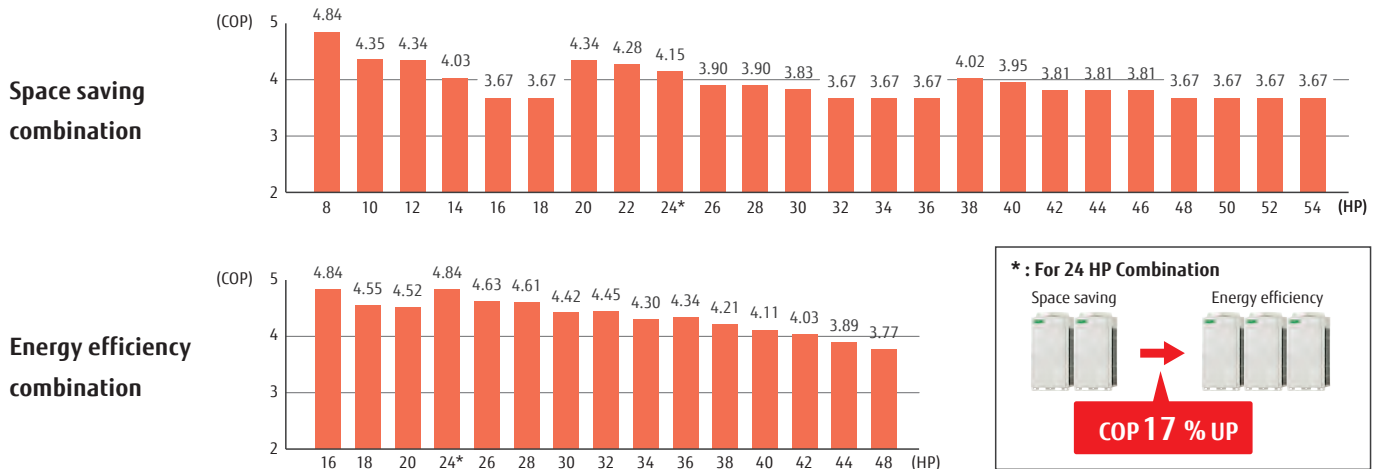


Anti-corrosion treatment design
All metallic and PCB components are protected against corrosion



Efficiency in actual operation

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



Energy saving technology that boosted operation efficiency



Powerful large propeller fan

By using CFD*1 technology, a newly designed fan achieves high performance and low noise operation.

*1. CFD = Computational Fluid Dynamics



3 phase DC fan motor

Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.



Subcool heat exchanger

High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.



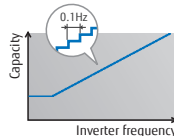
Sine-wave DC inverter control

High efficiency is realized by adoption of reduced switching loss IPM.



High efficient & Large capacity DC inverter compressor

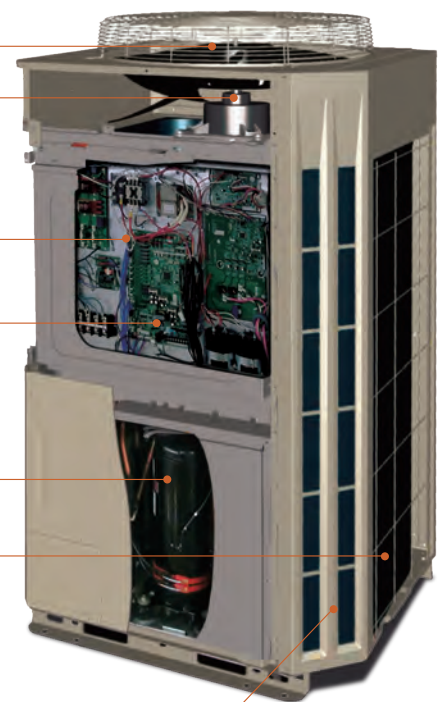
Large capacity high efficient DC twin rotary compressor with 0.1Hz steps compressor speed control



4-face heat exchanger

Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

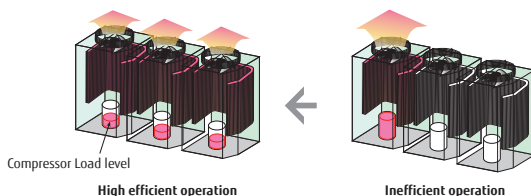
Front intake port (corner cut air inhaling structure)



Advanced energy saving control

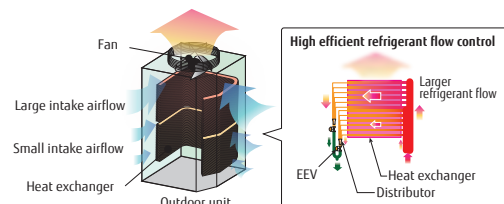
Multiple outdoor operation control

This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.



Heat exchanger refrigerant control

The efficiency of the top and bottom heat exchanger in the outdoor unit has been improved by adopting an optimum refrigerant path control.










Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combinations

22.4kW (8HP)  AJY072LNTCH UNIT : AJ*072LNTCH	28.0kW (10HP)  AJY090LNTCH UNIT : AJ*090LNTCH	33.5kW (12HP)  AJY108LNTCH UNIT : AJ*108LNTCH	40.0kW (14HP)  AJY126LNTCH UNIT : AJ*126LNTCH	45.0kW (16HP)  AJY144LNTCH UNIT : AJ*144LNTCH
50.0 kW (18HP)  AJY162LNTCH UNIT : AJ*162LNTCH	56.0kW (20HP)  AJY180LNTCH UNIT : AJ*090/090LNTCH	62.4 kW (22HP)  AJY198LNTCH UNIT : AJ*126/072LNTCH	68.0 kW (24HP)  AJY216LNTCH UNIT : AJ*126/090LNTCH	73.0 kW (26HP)  AJY234LNTCH UNIT : AJ*144/090LNTCH
78.0 kW (28HP)  AJY252LNTCH UNIT : AJ*162/090LNTCH	85.0 kW (30HP)  AJY270LNTCH UNIT : AJ*144/126LNTCH	90.0 kW (32HP)  AJY288LNTCH UNIT : AJ*144/144LNTCH	95.0 kW (34HP)  AJY306LNTCH UNIT : AJ*162/144LNTCH	100.0 kW (36HP)  AJY324LNTCH UNIT : AJ*162/162LNTCH
106.0 kW (38HP)  AJY342LNTCH UNIT : AJ*162/090/090LNTCH	113.0 kW (40HP)  AJY360LNTCH UNIT : AJ*144/126/090LNTCH	118.0 kW (42HP)  AJY378LNTCH UNIT : AJ*144/144/090LNTCH	123.0 kW (44HP)  AJY396LNTCH UNIT : AJ*162/144/090LNTCH	128.0 kW (46HP)  AJY414LNTCH UNIT : AJ*162/162/090LNTCH
135.0 kW (48HP)  AJY432LNTCH UNIT : AJ*144/144/144LNTCH	140.0 kW (50HP)  AJY450LNTCH UNIT : AJ*162/144/144LNTCH	145.0 kW (52HP)  AJY468LNTCH UNIT : AJ*162/162/144LNTCH	150.0 kW (54HP)  AJY486LNTCH UNIT : AJ*162/162/162LNTCH	

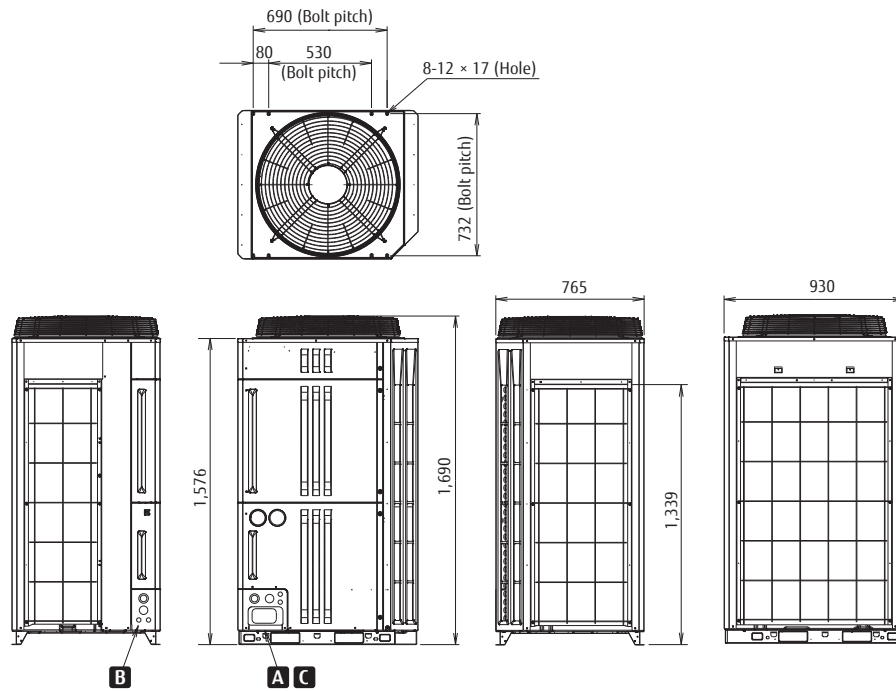
Energy efficiency combinations

44.8 kW (16HP)  AJY144LNTCHH UNIT : AJ*072/072LNTCH	50.4kW (18HP)  AJY162LNTCHH UNIT : AJ*090/072LNTCH	55.9 kW (20HP)  AJY180LNTCHH UNIT : AJ*108/072LNTCH	67.2 kW (24HP)  AJY216LNTCHH UNIT : AJ*072/072/072LNTCH	72.8 kW (26HP)  AJY234LNTCHH UNIT : AJ*090/072/072LNTCH
78.3 kW (28HP)  AJY252LNTCHH UNIT : AJ*108/072/072LNTCH	84.8 kW (30HP)  AJY270LNTCHH UNIT : AJ*126/072/072LNTCH	89.4 kW (32HP)  AJY288LNTCHH UNIT : AJ*108/108/072LNTCH	95.9 kW (34HP)  AJY306LNTCHH UNIT : AJ*126/108/072LNTCH	100.5 kW (36HP)  AJY324LNTCHH UNIT : AJ*108/108/108LNTCH
107.0 kW (38HP)  AJY342LNTCHH UNIT : AJ*126/108/108LNTCH	113.5 kW (40HP)  AJY360LNTCHH UNIT : AJ*126/126/108LNTCH	120.0 kW (42HP)  AJY378LNTCHH UNIT : AJ*126/126/126LNTCH	125.0 kW (44HP)  AJY396LNTCHH UNIT : AJ*144/126/126LNTCH	130.0 kW (46HP)  AJY414LNTCHH UNIT : AJ*144/144/126LNTCH

Dimensions

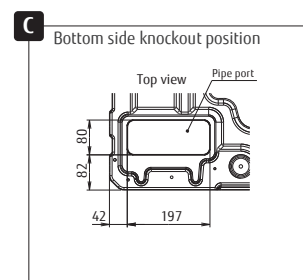
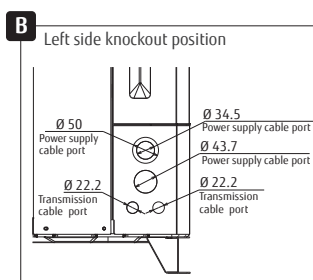
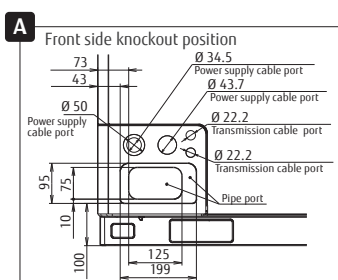
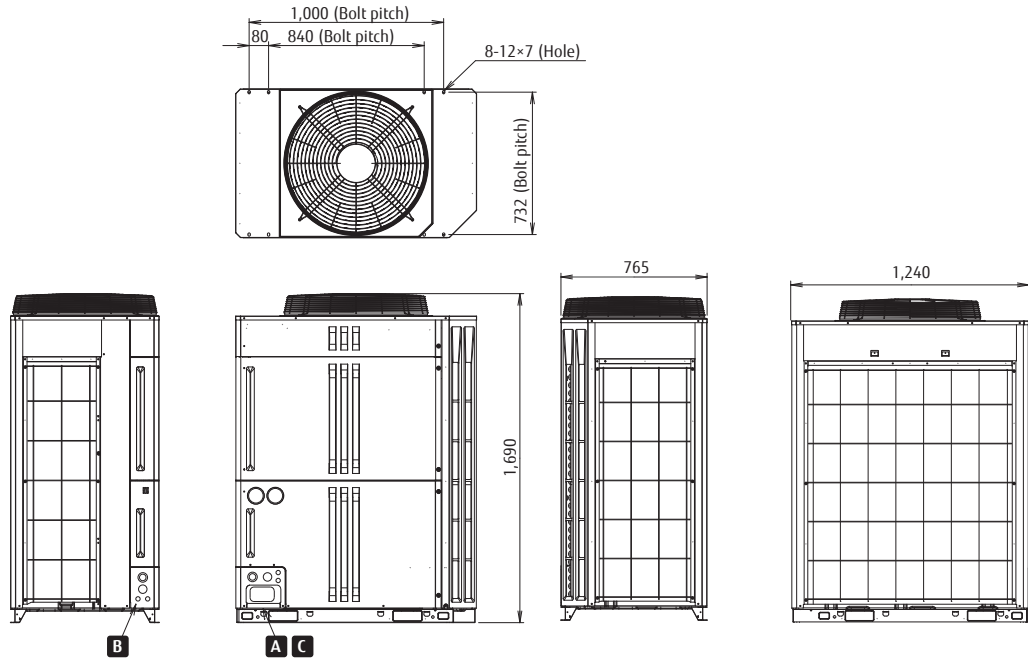
8,10HP : AJ*072LNTCH / AJ*090LNTCH

(Unit : mm)














12,14,16,18HP : AJ*108LNTCH / AJ*126LNTCH / AJ*144LNTCH / AJ*162LNTCH

(Unit : mm)

















Outdoor units specifications


Space Saving Combinations

Rating Capacity range			HP	8	10	12	14	16	18	20	22	24	26	28		
																
Model name				AJY072LNTCH	AJY090LNTCH	AJY108LNTCH	AJY126LNTCH	AJY144LNTCH	AJY162LNTCH	AJY180LNTCH	AJY198LNTCH	AJY216LNTCH	AJY234LNTCH	AJY252LNTCH		
Unit 1				AJ*072LNTCH	AJ*090LNTCH	AJ*108LNTCH	AJ*126LNTCH	AJ*144LNTCH	AJ*162LNTCH	AJ*090LNTCH	AJ*126LNTCH	AJ*126LNTCH	AJ*144LNTCH	AJ*162LNTCH		
Unit 2										AJ*090LNTCH	AJ*072LNTCH	AJ*090LNTCH	AJ*090LNTCH	AJ*090LNTCH		
Unit 3																
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	14.0-36.4	16.8-43.5	20.0-52.0	22.5-58.5	25.0-65.0	28.0-72.8	31.2-81.1	34.0-88.4	36.5-94.9	39.0-101.4	
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		76,400	95,500	114,300	136,500	153,500	170,600	191,000	212,900	232,000	249,000	266,100		
		Heating	Btu/h	85,300	107,500	128,000	153,500	170,600	170,600	215,000	238,800	261,000	278,100	278,100		
		Cooling		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		
	Input power	Cooling	kW	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	-	-	-	-	-		
		Cooling		4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27		
		Heating	W/W	4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90		
		Cooling		14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2		
		Heating		16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.3		
T3 condition	Capacity	Cooling	kW	20.2	25.2	28.5	32.0	35.1	35.2	50.4	52.2	57.2	60.3	60.4		
		Heating		68,900	86,000	97,200	109,200	119,800	120,100	172,000	178,100	195,200	205,800	206,100		
		Cooling		6.73	9.20	9.34	10.70	11.82	12.35	18.39	17.44	19.90	21.02	21.55		
		Heating		10.8	14.5	14.7	16.9	18.6	19.2	-	-	-	-	-		
	Input power	Cooling	W/W	3.00	2.74	3.05	2.99	2.97	2.85	2.74	2.99	2.87	2.87	2.80		
		Heating		10.23	9.35	10.40	10.20	10.14	9.72	9.35	10.21	9.81	9.79	9.56		
		Cooling		20.2	25.2	28.5	32.0	35.1	35.2	50.4	52.2	57.2	60.3	60.4		
		Heating		68,900	86,000	97,200	109,200	119,800	120,100	172,000	178,100	195,200	205,800	206,100		
Power factor			%	90	92	92	92	92	93	-	-	-	-	-		
Air flow rate			High	m³/h	11,100	11,100	13,000	13,000	13,700	13,700	11,100×2	13,000+11,100	13,000+11,100	13,700+11,100		
Sound pressure level*2 / 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	
Maximum external static pressure			Pa	82	82	82	82	82	82	82	82	82	82	82	82	
Compressor motor output			kW	7.5	7.5	11.0	11.0	11.0	11.0	7.5×2	11.0+7.5	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	Blue fin	
Dimensions	Height	mm		1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	
	Width			930	930	1,240	1,240	1,240	1,240	930×2	1,240×930	1,240×930	1,240×930	1,240×930	1,240×930	
	Depth			765	765	765	765	765	765	765	765	765	765	765	765	
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)	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)	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	
			Discharge Gas		22.22	22.22	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	
Operating range			Cooling	°C	-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 Combinations

Rating Capacity range			HP	16	18	20	24	26	28	30	32	34	36	38	
															
Model name				AJY144LNTCHH	AJY162LNTCHH	AJY180LNTCHH	AJY216LNTCHH	AJY234LNTCHH	AJY252LNTCHH	AJY270LNTCHH	AJY288LNTCHH	AJY306LNTCHH	AJY324LNTCHH	AJY342LNTCHH	
Unit 1				AJ*072LNTCH	AJ*090LNTCH	AJ*108LNTCH	AJ*072LNTCH	AJ*090LNTCH	AJ*108LNTCH	AJ*126LNTCH	AJ*108LNTCH	AJ*126LNTCH	AJ*108LNTCH	AJ*126LNTCH	
Unit 2				AJ*072LNTCH	AJ*072LNTCH	AJ*072LNTCH	AJ*072LNTCH	AJ*072LNTCH	AJ*072LNTCH	AJ*072LNTCH	AJ*072LNTCH	AJ*108LNTCH	AJ*108LNTCH	AJ*108LNTCH	
Unit 3											AJ*072LNTCH	AJ*072LNTCH	AJ*108LNTCH	AJ*108LNTCH	
Maximum Connectable Indoor Unit				26	29	33	39	43	46	50	52	55	55	55	
Indoor unit connectable capacity			Cooling	kW	22.4-58.2	25.2-65.5	28.0-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	44.7-116.2	48.0-124.6	50.3-130.6	53.5-139.1
Power source				3 phase 4 wire, 400 V, 50Hz											
T1 condition	Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	
		Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0	
		Cooling		152,800	171,900	190,700	229,200	248,300	267,100	289,300	305,000	327,200	342,900	365,100	
		Heating	Btu/h	170,600	192,800	213,300	255,900	278,100	298,600	324,100	341,300	366,800	384,000	409,500	
		Cooling		10.40	12.48	14.16	15.60	17.68	19.36	21.36	23.12	25.12	26.88	28.88	
		Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51	22.47	24.99	25.95	28.47	
	Input power	Cooling	kW	-	-	-	-	-	-	-	-	-	-	-	-
		Heating		-	-	-	-	-	-	-	-	-	-	-	-
		Cooling		4.31	4.04	3.95	4.31	4.12	4.04	3.97	3.87	3.82	3.74	3.70	
		Heating	W/W	4.84	4.55	4.52	4.84	4.63	4.61	4.42	4.45	4.30	4.34	4.21	
		Cooling		14.7	13.8	13.5	14.7	14.0	13.8	13.5	13.2	13.0	12.8	12.6	
		Heating		16.5	15.5	15.4	16.5	15.8	15.7	15.1	15.2	14.7	14.8	14.4	
T3 condition	Capacity	Cooling	kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4	77.2	80.7	85.5	89.0	
			Btu/h	137,800	154,900	166,100	206,700	223,800	235,000	247,000	263,300	275,300	291,600	303,600	
			kW	13.47	15.93	16.08	20.20	22.66	22.81	24.17	25.42	26.78	28.03	29.39	
			A	-	-	-	-	-	-	-	-	-	-	-	
	Input power	Cooling	W/W	3.00	2.85	3.03	3.00	2.89	3.02	3.00	3.04	3.01	3.05	3.03	
			Btu/h/W	10.23	9.72	10.33	10.23	9.87	10.30	10.22	10.36	10.28	10.40	10.33	
			Power factor			%	-	-	-	-	-	-	-	-	-
			Air flow rate			High	m³/h	11,100×2	11,100×2	13,000+11,100	11,100×3	11,100×3	13,000+11,100×2	13,000+11,100×2	13,000+11,100
Sound pressure level*2 /		Cooling	dB (A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84	61 / 82	63 / 84	62 / 83	63 / 84	
Power level				61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64 / 86	65 / 87	64 / 87	65 / 88	65 / 88	66 / 88	
Maximum external static pressure			Pa	82	82	82	82	82	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	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	
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	
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	
	Width		930×2	930×2	1,240×930	930×3	930×3	1,240×930×2	1,240×930×2	1,240×2+930	1,240×2+930	1,240×3	1,240×3		
	Depth		765	765	765	765	765	765	765	765	765	765	765		
Weight			kg	255×2	255×2	279×255	255×3	255×3	279×255×2	279×255×2	279×2+255	279×2+255	279×3	279×3	
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-1)	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)	11.8×2+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)		
Connection pipe diameter		Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	
		Discharge Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	
Operating range		Cooling	°C	-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	
		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	

30	32	34	36	38	40	42	44	46	48	50	52	54
												
AJY270LNTCH AJ*144LNTCH AJ*126LNTCH	AJY288LNTCH AJ*144LNTCH AJ*144LNTCH	AJY306LNTCH AJ*162LNTCH AJ*144LNTCH	AJY324LNTCH AJ*162LNTCH AJ*162LNTCH	AJY342LNTCH AJ*162LNTCH AJ*090LNTCH AJ*090LNTCH	AJY360LNTCH AJ*144LNTCH AJ*126LNTCH AJ*090LNTCH	AJY378LNTCH AJ*144LNTCH AJ*144LNTCH AJ*090LNTCH	AJY396LNTCH AJ*162LNTCH AJ*144LNTCH AJ*090LNTCH	AJY414LNTCH AJ*162LNTCH AJ*162LNTCH AJ*090LNTCH	AJY432LNTCH AJ*144LNTCH AJ*144LNTCH AJ*144LNTCH	AJY450LNTCH AJ*162LNTCH AJ*144LNTCH AJ*144LNTCH	AJY468LNTCH AJ*162LNTCH AJ*162LNTCH AJ*144LNTCH	AJY486LNTCH AJ*162LNTCH AJ*162LNTCH AJ*162LNTCH
50	53	55	55	55	55	55	55	55	55	55	55	55
42.5-110.5	45.0-117.0	47.5-123.5	50.0-130.0	53.0-137.8	56.5-146.9	59.0-153.4	61.5-159.9	64.0-166.4	67.5-175.5	70.0-182	72.5-188.5	75.0-195.0
3 phase 4 wire, 400 V, 50Hz												
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
290,000	307,000	324,100	341,200	361,600	385,500	402,500	419,600	436,700	460,500	477,600	494,700	511,800
324,100	341,200	341,200	341,200	385,600	431,600	448,700	448,700	448,700	511,800	511,800	511,800	511,800
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
67.1	70.2	70.3	70.4	85.6	92.3	95.4	95.5	95.6	105.3	105.4	105.5	105.6
229,000	239,600	239,900	240,200	292,100	315,000	325,600	325,900	326,200	359,400	359,700	360,000	360,300
22.52	23.64	24.17	24.70	30.75	31.72	32.83	33.37	33.90	35.45	35.99	36.52	37.05
-	-	-	-	-	-	-	-	-	-	-	-	-
2.98	2.97	2.91	2.85	2.78	2.91	2.91	2.86	2.82	2.97	2.93	2.89	2.85
10.17	10.14	9.93	9.72	9.50	9.93	9.92	9.77	9.62	10.14	10.00	9.86	9.72
-	-	-	-	-	-	-	-	-	-	-	-	-
13,700+13,000	13,700×2	13,700×2	13,700×2	13,700+11,100×2	13,700+13,000+11,100	13,700×2+11,100	13,700×2+11,100	13,700×2+11,100	13,700×3	13,700×3	13,700×3	13,700×3
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	66 / 88	67 / 89	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	11.0×2	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
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240×2	1,240×2	1,240×2	1,240×2	1,240×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765	765	765	765	765	765	765	765	765	765
279×2	279×2	279×2	279×2	279×2	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)	11.8×2 (24.6×2) (24.6×2+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

40	42	44	46
			
AJY360LNTCHH AJ*126LNTCH AJ*126LNTCH AJ*108LNTCH	AJY378LNTCHH AJ*126LNTCH AJ*126LNTCH	AJY396LNTCHH AJ*144LNTCH AJ*126LNTCH AJ*126LNTCH	AJY414LNTCHH AJ*144LNTCH AJ*144LNTCH AJ*126LNTCH
55	55	55	55
56.8-147.5	60.0-156.0	62.5-162.5	65.0-169
3 phase 4 wire, 400 V, 50Hz			
113.5	120.0	125.0	130.0
127.5	135.0	140.0	145.0
387,300	409,500	426,500	443,500
435,000	460,500	477,600	494,700
30.88	32.88	34.93	36.98
30.99	33.51	35.97	38.43
-	-	-	-
-	-	-	-
3.68	3.65	3.58	3.52
4.11	4.03	3.89	3.77
12.5	12.5	12.2	12.0
14.0	13.7	13.3	12.9
92.5	96.0	99.1	102.2
315,600	327,600	338,200	348,800
30.75	32.11	33.22	34.34
-	-	-	-
3.01	2.99	2.98	2.98
10.26	10.20	10.18	10.16
-	-	-	-
13,000×3	13,000×3	13,700+13,000×2	13,700×2+13,000
64 / 85	65 / 88	66 / 87	66 / 87
66 / 88	67 / 89	68 / 90	68 / 90
82	82	82	82
11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690
1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765
279×3	279×3	279×3	279×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
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
41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52
-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(T3): Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°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 and indoor unit: 0 m.

VRF INDOOR UNITS

VRF INDOOR UNITS LINE-UP

Cassette 1-way Flow type

3D Flow Cassette

Compact Cassette Standard type

Cassette Large type Circular Flow

Low Static Pressure Duct / Concealed Floor

Slim Duct / Slim Concealed Floor

Low / Medium Static Pressure Duct

High Static Pressure Duct

Floor / Ceiling

Ceiling

Wall Mounted (EEV Internal)









































































**16 Types and 151 models
available to meet the
requirements of any building
design.**












VRF 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.

INDOOR UNITS LINE-UP

Indoor units range

Model code		7	9	12	14	18
Capacity range (kW)		2.2	2.8	3.6	4.5	5.6
Cassette	1-way Flow	 AUXV007GLEH	 AUXV009GLEH	 AUXV012GLEH	 AUXV014GLEH	 AUXV018GLEH
	3D Flow					 AUXS018GLEH
	Compact	(Grid type)  AUXB007GLEH	 AUXB009GLEH AUXB09GATH	 AUXB012GLEH AUXB12GATH	 AUXB014GLEH AUXB14GATH	 AUXB018GLEH AUXB18GATH
		(Standard type)  AUXB007GLEH	 AUXB009GLEH AUXB09GATH	 AUXB012GLEH AUXB12GATH	 AUXB014GLEH AUXB14GATH	 AUXB018GLEH AUXB18GATH
	4-way Flow	(Slim type)				 AUXD18GALH
		(Large type)				 AUXA18GALH
	Circular Flow	(Slim type)	 AUXN009GLAH**	 AUXN012GLAH**	 AUXN014GLAH**	 AUXM018GLEH AUXM18GTAH
		(Large type)				 AUXK018GLEH
Duct	Mini Duct (With drain pump)	 ARXK007GLGH	 ARXK009GLGH	 ARXK012GLGH	 ARXK014GLGH	 ARXK018GLGH
	Low Static Pressure Duct	 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH	 ARXB18GALH
	Slim Duct (With drain pump)	 ARXD007GLEH ARXD07GATH	 ARXD009GLEH ARXD09GATH	 ARXD012GLEH ARXD12GATH	 ARXD014GLEH ARXD14GATH	 ARXD018GLEH ARXD18GATH
	Medium Static Pressure Duct					
	High Static Pressure Duct					
Floor	Concealed Floor (Same as Low Static Pressure Duct models)	 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH	 ARXB18GALH
	Floor (Same as Ceiling models)			 ABHA012GTEH	 ABHA014GTEH	 ABHA018GTEH
	Slim Concealed Floor (Same as Slim Duct models)	 ARXD007GLEH ARXD07GATH	 ARXD009GLEH ARXD09GATH	 ARXD012GLEH ARXD12GATH	 ARXD014GLEH ARXD14GATH	 ARXD018GLEH ARXD18GATH
	Floor (compact)* ³	 AG*A007GCGH	 AG*A009GCGH	 AG*A012GCGH	 AG*A014GCGH	
Ceiling	Ceiling			 AB*A012GTEH	 AB*A014GTEH	 AB*A018GTEH
Wall Mounted	Wall Mounted	 AS*A07GATH	 AS*A09GATH	 AS*A12GATH	 AS*A14GATH	 AS*A18GATH
		 AS*A007GCGH	 AS*A009GCGH	 AS*A012GCGH	 AS*A014GCGH	 AS*A18GCBH
		 AS*A007GTEH	 AS*A009GTEH			

*1:AUXA18/24GALH can not be connected to J-III Series.
 *2:ARXC60/72/90/96 cannot be connected to J-IIS Series and J-III Series.
 *3 Floor (Compact) can not be connected to VC-V
 *4 Circular flow cassette AUXN009/012/014GLAH can connected to VC-V only
 *: Circular Flow Cassette (except AUXM030GLAH) , Mini Duct, Low Static Pressure Duct, Slim Duct, Medium Static Pressure Duct, High Static Pressure Duct (ARXC45GATH only) can be connected to J-III Series for Singapore.

24	30	34	36	45	54	60	72	90	96
7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
 AUXV024GLEH									
 AUXS024GLEH									
 AUXB024GLEH AUXB24GATH									
 AUXB024GLEH AUXB24GATH									
 AUXD024GALH									
 AUXA24GALH	 AUXA30GALH	 AUXA34GALH	 AUXA36GALH	 AUXA45GALH	 AUXA54GALH				
 AUXM024GLEH AUXM024GTAH	 AUXM030GLEH								
 AUXK024GLEH	 AUXK030GLEH AUXK030GTAH	 AUXK034GLEH	 AUXK036GLEH AUXK036GTAH	 AUXK045GLEH AUXK045GTAH	 AUXK054GLEH AUXK054GTAH				
 ARXK024GLGH									
 ARXB24GALH	 ARXB30GALH		 ARXB36GALH	 ARXB45GALH					
 ARXD024GLEH ARXD24GATH									
 ARXA024GLEH ARXA24GBTH	 ARXA030GLEH ARXA30GBTH		 ARXA036GLEH ARXA36GBTH	 ARXA045GLEH ARXA45GBTH					
			 ARXC036GTEH	 ARXC045GTEH		 ARXC060GTEH*2	 ARXC072GTEH*2	 ARXC090GTEH*2	 ARXC096GTEH*2
 AB*A024GTEH									
 ARXD024GLEH ARXD24GATH									
 AB*A024GTEH	 AB*A030GTEH		 AB*A036GTEH	 AB*A045GTEH	 AB*A054GTEH				
 AS*A24GACH AS*A24GATH	 AS*A30GACH AS*A30GATH								
 AS*A24GBCH	 AS*A030GTEH	 AS*A034GTEH							

Cassette 1-way Flow type



Compact chassis size

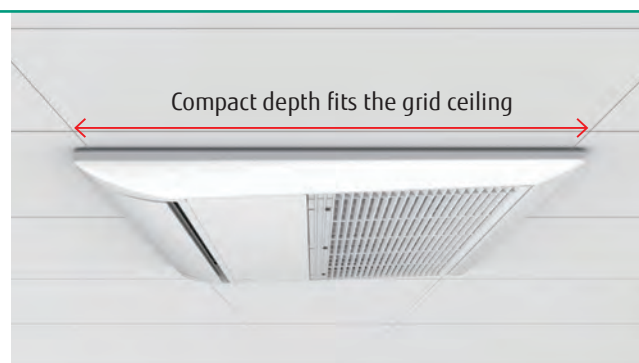
Their compact sizes make it easy to install them in a variety of commercial locations and environments.

- 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)

	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

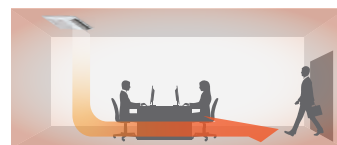
The large flap with triangularly arrayed louvers has a wider movable range and directs an airflow to the furthest corners of the room.



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			AUXV007GLEH	AUXV009GLEH	AUXV012GLEH	AUXV014GLEH	AUXV018GLEH	AUXV024GLEH
Power source			Single phase - phase, ~230V, 50Hz					
Capacity	Cooling	BTU/h (kW)	7,500 (2.2)	9,600 (2.8)	12,300 (3.6)	15,400 (4.5)	19,100 (5.6)	24,200 (7.1)
	Heating		9,600 (2.8)	10,900 (3.2)	14,000 (4.0)	17,100 (5.0)	21,500 (6.3)	27,300 (8.0)
Input power		W	42/42	42/42	60/60	38/38	56/56	99/99
Airflow rate	High	m³/h (l/s)	550	550	670	720	890	1,150
	Med-High		440	440	520	660	840	1,020
	Med		420	420	480	630	770	940
	Med-Low		400	400	450	600	710	790
	Low		380	380	410	580	660	700
	Quiet		360	360	360	550	580	610
Sound pressure level	High	dB (A)	42	42	45	37	44	49
	Med-High		37	37	41	36	43	47
	Med		36	36	39	35	40	45
	Med-Low		35	35	38	34	38	42
	Low		33	33	36	33	36	39
	Quiet		32	32	32	32	34	36
Dimensions (H × W × D)		mm	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 1,190 × 570	198 × 1,190 × 570	198 × 1,190 × 570
Weight		kg	19 (42)	19 (42)	19 (42)	26 (57)	26 (57)	27 ()
Connection pipe diameter	Liquid (flare)	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (flare)		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-UNGA-W			UTG-UNGB-W		
	Dimensions (H×W×D)	mm	43 × 950× 620			43 × 1,360 × 620		
	Weight	kg	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.

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

IR Receiver Unit: UTY-TRHX

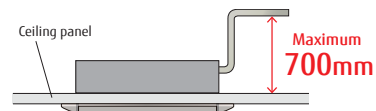
Cassette Grille: UTG-UNGA-W (007/009/012), UTG-UNGB-W (014/018/024)

External Power Supply Unit: UT7-GXX

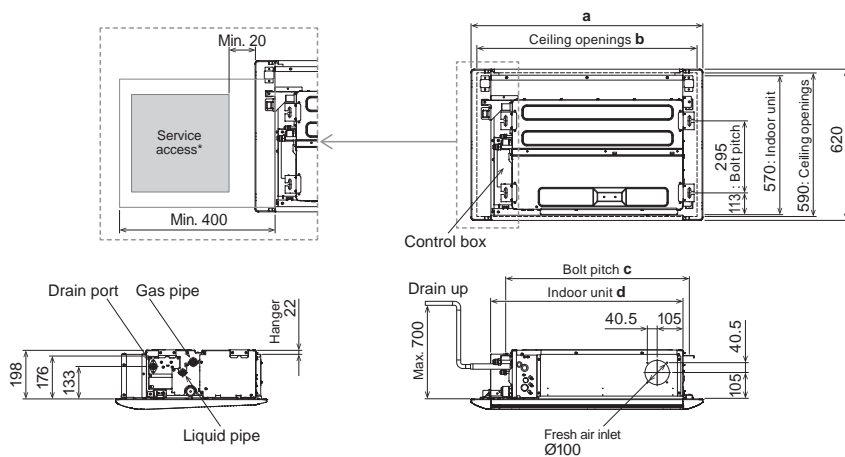
Flexible Installation

The L-shaped pipe kit allows for more flexible installation.

Equipped with a built-in drain pump as standard, which enables a maximum pipe height difference of 700 m from the ceiling.



Dimensions (Unit: mm)



	AUXV 004 / 007 / 009 / 012 GLEH	AUXV 014 / 018 / 024 GLEH
a	950	1,360
b	920	1,330
c	752	1,152
d	785	1,190

*The design of the service access depends on the installation method. Refer to the installation manual for more information.

3D Flow Cassette



3 Air Outlet Ports can be controlled individually

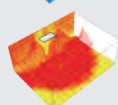
Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

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



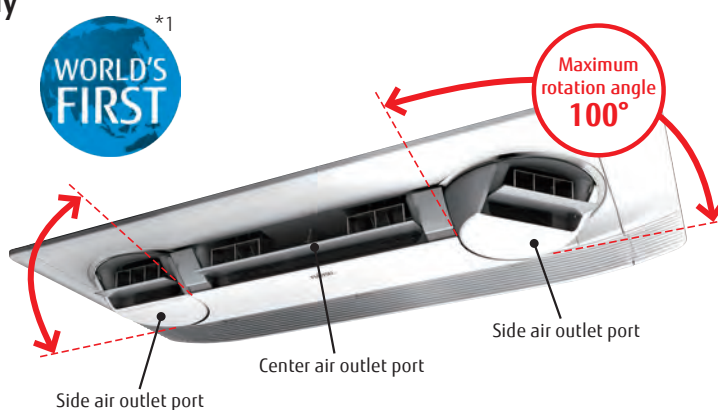
Cooling

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

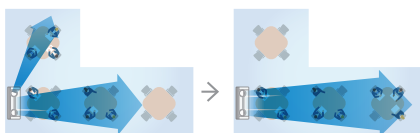
When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40m² environmental our test room for the AUXS024GLEH



*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.

Individual air outlet port control

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



Wired Remote Controller (Touch Panel)
UTY-RNRGZ5

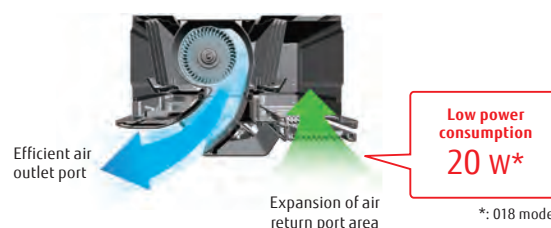


Central Remote Controller
UTY-DCGGZ3

*Wired Remote Controller (Touch Panel) (UTY-RNRYZ5) and Central remote controller (UTY-DCGYZ3) 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 (5.6)	24,200 (7.1)
	Heating	(kW)	21,500 (6.3)	27,300 (8.0)
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
Dimensions (H × W × D)		mm	200 × 1,240 × 500	200 × 1,240 × 500
Weight		kg	25	25
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-USGA-W	
	Dimensions (H×W×D)	mm	85 × 1,350 × 580	
	Weight	kg	11.5	

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.

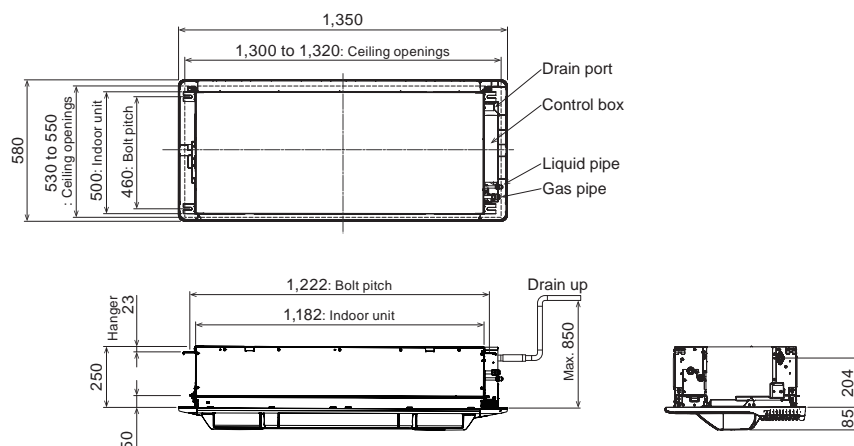
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

*: This value is "cooling operation / heating operation".

Optional parts

IR Receiver Unit: UTY-TRHX
Cassette Grille: UTG-USGA-W
External Power Supply Unit: UTZ-GXXC

Dimensions (Unit: mm)



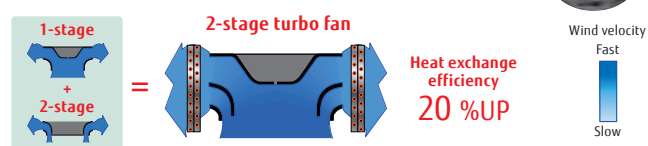
Compact Cassette Standard type



2-stage turbo fan

High efficiency design by 2 stage structure

An evenly spread air distribution across the heat exchanger is possible due to the new 2 stage turbo fan which produces two separate airflow streams.



Previous turbo fan

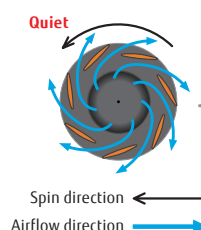
In the case of a previous fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.



Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)
Designed by CFD-analysis (fluid) simulations

Adoption of laminar wing

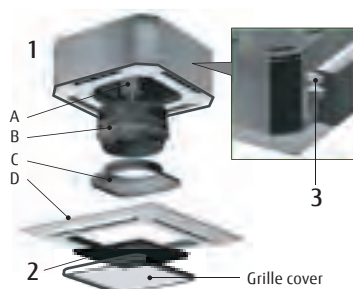


Laminar wing

Airflow runs through smoothly along the laminar wing



Improvement of the airflow distribution



1. Maintenance of fan motor and fan

Maintenance of the fan motor and fan can be done easily after taking off the panel as the bell mouth of the fan can be removed easily.

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

2. Air filter : standard equipment

3. Adaptation of transparent drainage parts

During installation, maintenance and operation, the drain pump and kit can be checked easily.

High ceiling mode

The compact cassette can be installed up to a height of 3.0 m (12/14/18/24).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
7	2.7	-
9	2.7	-
12	2.7	3.0
14	2.7	3.0
18	2.7	3.0
24	2.7	3.0

Compact design

Worlds first 24,000 Btu model in the compact cassette category
(Easy installation by taking off ceiling panel of 600 x 600 size)



**Model: AUXB007GLEH / AUXB009GLEH / AUXB012GLEH
AUXB014GLEH / AUXB018GLEH / AUXB024GLEH
AUXB09GATH / AUXB12GATH / AUXB14GATH
AUXB18GATH / AUXB24GATH**



Specifications

Model name			AUXB007GLEH	AUXB009GLEH AUXB09GATH	AUXB012GLEH AUXB12GATH	AUXB014GLEH AUXB14GATH	AUXB018GLEH AUXB18GATH	AUXB024GLEH AUXB24GATH
Power source			Single phase, ~230V, 50Hz					
Capacity	Cooling	BTU/h	7,500 (2.2)	9,500 (2.8)	12,300 (3.6)	15,400 (4.5)	19,100 (5.6)	24,200 (7.1)
	Heating	(kW)	9,600 (2.8)	10,900 (3.2)	14,000 (4.1)	17,100 (5.0)	21,500 (6.3)	27,300 (8.0)
Input power		W	25	25	29	35	36	84
Airflow rate	High	m ³ /h	540	550	600	680	710	1,030
	Med-High*1		500	520	560	620	660	910
	Med		460	480	520	560	590	790
	Med-Low*1		420	440	480	500	520	680
	Low		390	400	430	440	460	560
	Quiet*1		350	350	390	390	400	450
Sound pressure level	High	dB (A)	34	35	37	38	41	50
	Med-High*1		32	33	34	37	39	46
	Med		30	31	33	34	36	43
	Med-Low*1		28	29	31	32	33	39
	Low		27	27	29	30	30	35
	Quiet*1		25	25	27	27	27	30
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	15	15	15	15	17	17
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35 / 9.52*2	9.52
	Gas (Flare)		9.52 / 12.70*2	9.52 / 12.70*2	12.70	12.70	12.70 / 15.88*2	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette Grille		Model name	UTG-UFGE-W / UTG-UFGC-W					
		Dimensions (H×W×D)	49 × 620 × 620 / 49 × 700 × 700					
		Weight	2.3 / 2.6					

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.

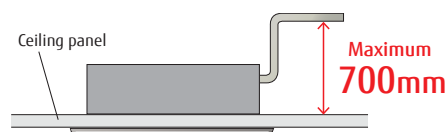
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

*1: AUXB***GLEH only

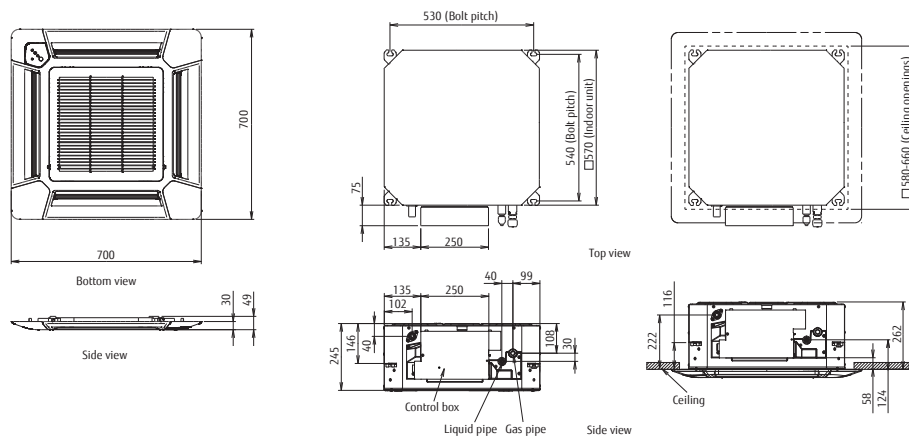
*2: GLEH / GATH

Optional parts

Air outlet shutter plate : UTR-YDZB
Insulation kit for high humidity: UTZ-KXGC
Fresh air intake kit: UTZ-VXAA
Cassette Grille: UTG-UFGC-W
External Power Supply Unit: UTZ-GXXC (AUXB***GLEH)



Dimensions (Unit: mm)



Cassette Large type Circular Flow



Unique Circular Flow design

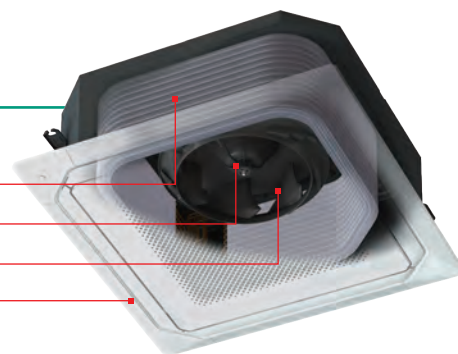
New Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, new turbo fan and unique seamless airflow louver design.

Ø7 mm high density heat exchanger

New DC fan motor

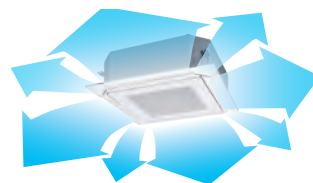
High efficient turbo fan

Seamless airflow louver



Uniform temperature air conditioning

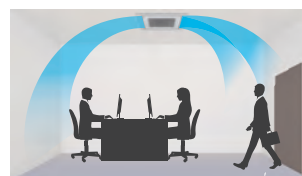
Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.



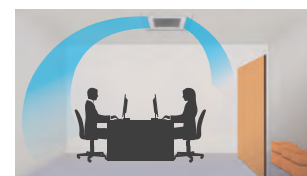
Individual louver control

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-RNRGZ5) and Central Remote Controller(UTY-DCGGZ2) 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

Occupancy 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-RNRGZ5) and Central Remote Controller(UTY-DCGGZ2) only



Occupancy 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**



Black panel

Specifications

Model name			AUXK018GLEH	AUXK024GLEH	AUXK030GLEH	AUXK034GLEH	AUXK036GLEH	AUXK045GLEH	AUXK054GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	BTU/h (kW)	19,100 (5.6)	24,200 (7.1)	30,700 (9.0)	34,100 (10.0)	38,200 (11.2)	42,600 (12.5)	47,800 (14.0)
	Heating		21,500 (6.3)	27,300 (8.0)	34,100 (10.0)	38,200 (11.2)	42,600 (12.5)	47,800 (14.0)	54,600 (16.0)
Input power		W	40	40	47	47	61	89	116
Airflow rate	High	m³/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	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	
Weight		kg	26.5	26.5	29.5	29.5	29.5	29.5	
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-UKGC-W /UTG-UKGA-B (Black)						
	Dimensions (H×W×D)		mm	53×950×950					
	Weight		kg	6.0					

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

Occupancy Sensor Kit: UTY-SHZXC

Wide Panel: UTG-AKXA-W

Panel Spacer: UTG-BKXA-W

Fresh Air Intake Kit: UTZ-VXRA

Air Outlet Shutter Plate: UTR-YDZK

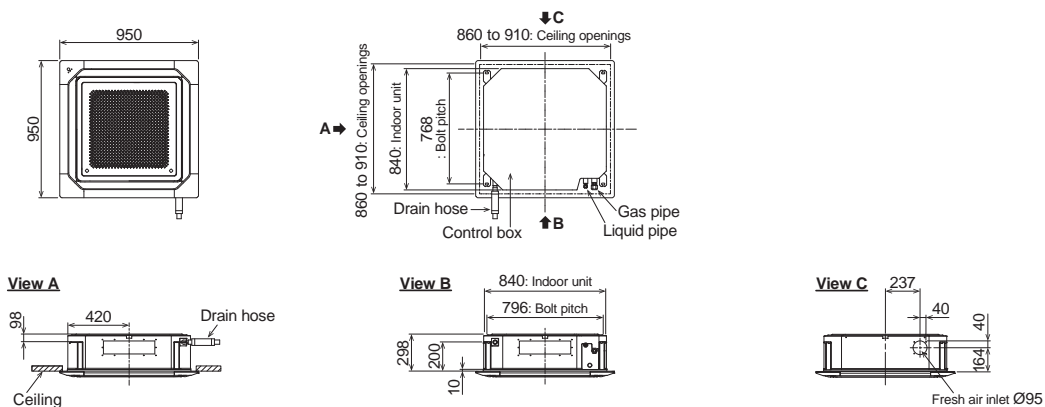
Cassette Grille: UTG-UKGC-W, UTG-UKGA-B (Black)

Insulation Kit for High Humidity: UTZ-KXRA

External Power Supply Unit: UTZ-GXXC (AUXM***GLEH, AUXK***GLEH)

IR Receiver unit: UTY-LBHXD

Dimensions (Unit: mm)

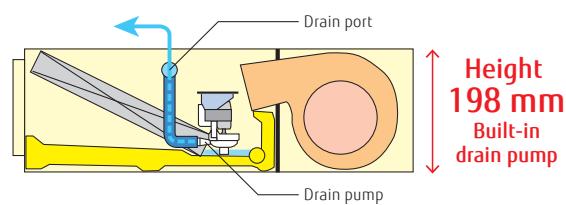


Slim Duct / Slim Concealed Floor



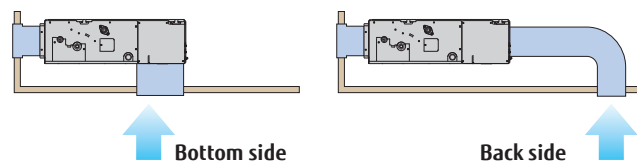
Slim design

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



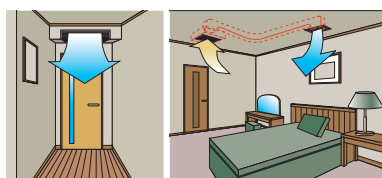
Air-intake

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

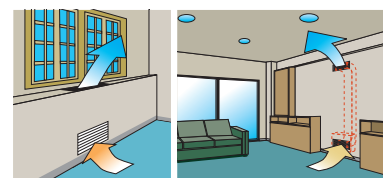


Flexible installation

Ceiling concealed



Floor concealed



Selectable with a wide range of static pressure

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

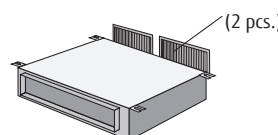


Static pressure range
0 to 90 Pa

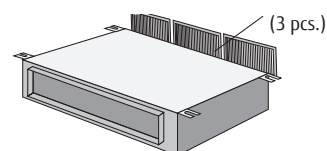
*24 model is 0 to 50 Pa

Filter (Accessory)

ARXD007/009/012/014/018



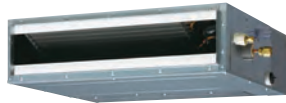
ARXD024



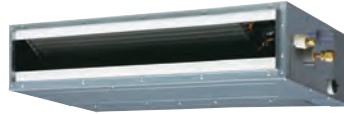
Model: (With drain pump)

ARXD007GLEH / ARXD009GLEH / ARXD012GLEH
 ARXD014GLEH / ARXD018GLEH / ARXD024GLEH
 ARXD07GALH / ARXD09GALH / ARXD12GALH
 ARXD14GALH / ARXD18GALH / ARXD24GALH

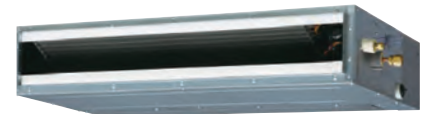
Slim
Concealed
Floor



ARXD007/009/012/014GLEH
ARXD07/09/12/14GALH



ARXD018GLEH
ARXD18GALH



ARXD024GLEH
ARXD24GALH

Specifications

Model name			ARXD007GLEH ARXD07GALH	ARXD009GLEH ARXD09GALH	ARXD012GLEH ARXD12GALH	ARXD014GLEH ARXD14GALH	ARXD018GLEH ARXD18GALH	ARXD024GLEH ARXD24GALH
Power source			Single phase, ~230V,					
Capacity	Cooling	BTU/h (kW)	7,500 (2.2)	9,600 (2.8)	12,300 (3.6)	15,400 (4.5)	19,100 (5.6)	24,200 (7.1)
	Heating		9,600 (2.8)	10,000 (3.2)	13,600 (4.0)	17,100 (5.0)	21,500 (6.3)	27,300 (8.0)
Input power		W	44	50	54	92	83	122
Airflow rate	High	m ³ /h	550	600	600	800	940	1,330
	Med-High* ¹		520	510	530	680	820	1,140
	Med		480	460	490	600	730	1,020
	Med-Low* ¹		410	420	450	520	630	900
	Low		370	370	410	440	540	780
	Quiet* ¹		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 50
Standard static pressure			25	25	25	25	25	25
Sound pressure level	High	dB (A)	28	29	30	34	34	35
	Med-High* ¹		26	27	28	32	31	31
	Med		25	25	27	30	29	29
	Med-Low* ¹		24	24	26	28	27	27
	Low		22	22	24	25	25	24
	Quiet* ¹		21	21	22	22	23	21
Dimensions (H × W × D)		mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620
Weight		kg	17	17	18	18	22	26
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35 / 9.52* ²	9.52
	Gas (Flare)		9.52/12.70* ²	9.52/12.70* ²	12.70	12.70	12.70 / 15.88* ²	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.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

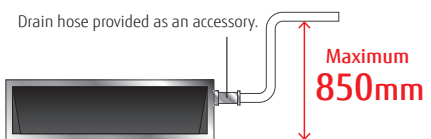
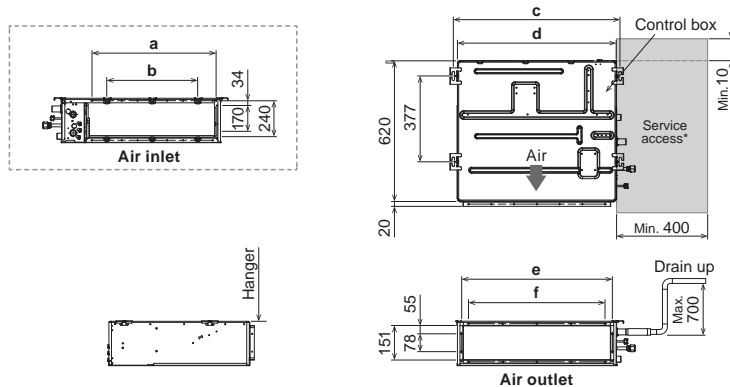
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

*1: ARXD***GLEH only

*2: GLEH / GALH

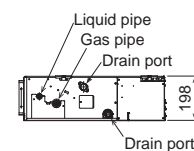
Optional parts

Remote Sensor Unit : UTY-XSZXZ1
 IR Receiver Unit : UTB-YWC (For ARXD**GALH), UTY-TRHX (For ARXD***GLEH)
 Auto Louver Grille Kit : UTD-GXTA-W (for 7/9/12/14 models), UTD-GXTB-W (for 18 model)
 UTD-GXTC-W (for 24 model)
 External Power Supply Unit : UTZ-GXXC (ARXD***GLEH)

**Dimensions** (Unit: mm)

	ARXD007-014 ARXD07-14	ARXD018 ARXD18	ARXD024 ARXD24
a	574	774	974
b	P200x2=400	P200x3=600	P200x4=800
c	734	934	1,134
d	700	900	1,100
e	650	850	1,050
f	P100x6=600	P100x8=800	P100x10=1,000

*The design of the service access depends on the installation method. Refer to the installation manual for more information.

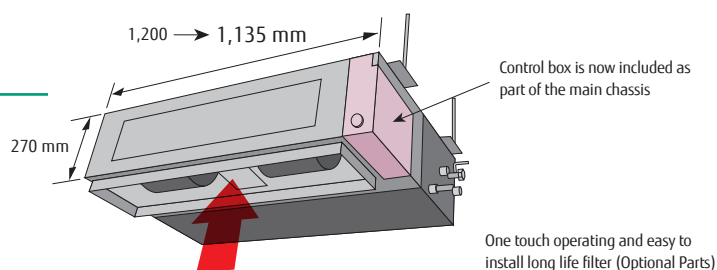


Low / Medium Static Pressure Duct



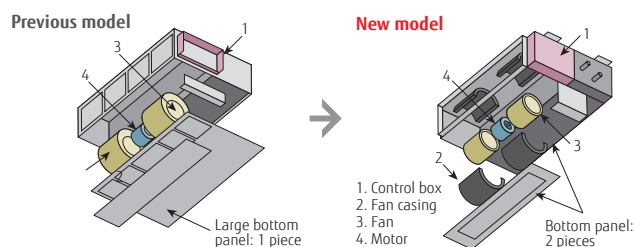
Slim & Compact design

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

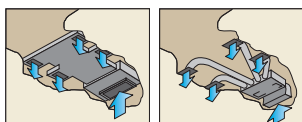
See below for the case of rear suction type



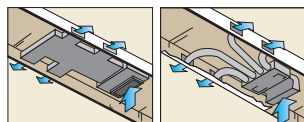
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

Installation styles

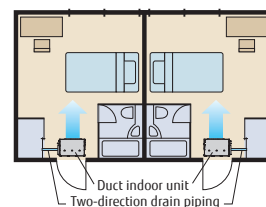
Embedded in Ceiling



Hanging from Ceiling

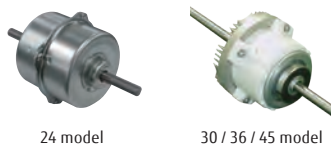


Two-direction drain piping



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.



24 model

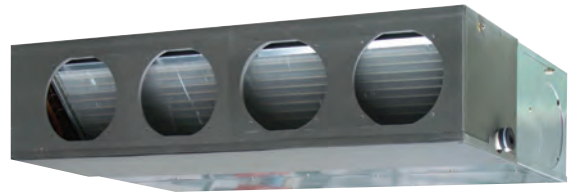
30 / 36 / 45 model

Selectable with a wide range of static pressure

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

Static pressure range
0 to 150 Pa

Model: (Low Static Pressure Duct)
ARXB24GALH / ARXB30GALH
ARXB36GALH / ARXB45GALH
(Medium Static Pressure Duct)
ARXA024GLEH / ARXA030GLEH
ARXA036GLEH / ARXA045GLEH
ARXA24GBLH / ARXA30GBLH
ARXA36GBLH / ARXA45GBLH



Specifications

Model name			ARXB24GALH	ARXB30GALH	ARXB36GALH	ARXB45GALH	ARXA024GLEH ARXA24GBLH	ARXA030GLEH ARXA30GBLH	ARXA036GLEH ARXA36GBLH	ARXA045GLEH ARXA45GBLH
Power source			Single phase, ~230V, 50Hz							
Capacity	Cooling	BTU/h (kW)	24,200 (7.1)	30,700 (9.0)	38,200 (11.2)	42,600 (12.5)	24,200 (7.1)	30,700 (9.0)	38,200 (11.2)	42,600 (12.5)
	Heating		27,300 (8.0)	34,100 (10.0)	42,600 (12.5)	47,800 (14.0)	27,300 (8.0)	34,100 (10.0)	42,600 (12.5)	47,800 (14.0)
Input power		W	145	198	253	338	94	108	194	240
Airflow rate	High	m³/h	1,100	1,410	1,710	1,970	1,280	1,410	1,840	1,970
	Med-High*¹		-	-	-	-	1,180	1,350	1,750	1,910
	Med		920	1,280	1,600	1,790	1,090	1,280	1,660	1,860
	Med-Low*¹		-	-	-	-	1,000	1,240	1,600	1,780
	Low		810	1,150	1,470	1,670	920	1,190	1,530	1,710
	Quiet*¹		-	-	-	-	840	1,150	1,470	1,640
Static pressure range		Pa	0 to 80	0 to 80	0 to 80	0 to 80	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60	40	50	50	60
Sound pressure level	High	dB (A)	31	34	37	41	31	34	37	41
	Med-High*¹		-	-	-	-	29	33	36	40
	Med		27	32	35	38	27	32	35	38
	Med-Low*¹		-	-	-	-	26	31	35	38
	Low		25	29	33	36	24	30	34	37
	Quiet*¹		-	-	-	-	23	29	33	36
Dimensions (H × W × D)		mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg	39	42	42	42	36	40	40	40
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	19.05	19.05	15.88	15.88	15.88 / 19.05*²	15.88 / 19.05*²
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.

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.

*1: ARXA***GLEH only

*2: GLEH / GBLH

Optional parts

Remote Sensor Unit : UTY-XSZXZ1

Long Life Filter : UTD-LF25NA (For ARXA**GLEH, ARXB**GBLH)

Flange (Square) : UTD-SF045T (For ARXA**GLEH, ARXB**GBLH)

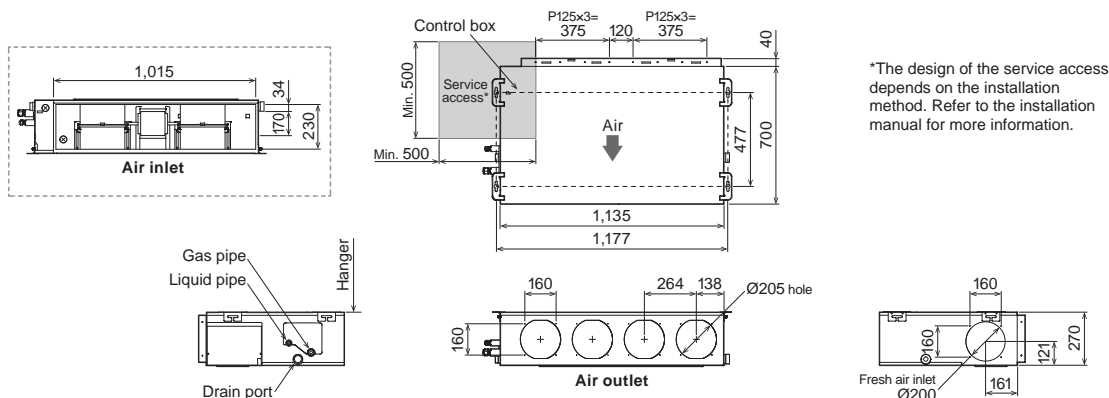
Flange (Round) : UTD-RF204 (For ARXA**GLEH, ARXB**GBLH)

IR Receiver Unit : UTB-YWC (For ARXB**GALH, ARXA**GBLH), UTY-TRHX (For ARXA**GLEH)

Drain Pump Unit : UTZ-PX1NBA

External Power Supply Unit : UTZ-GXXC (ARXA***GLEH)

Dimensions (Unit: mm)



High Static Pressure Duct



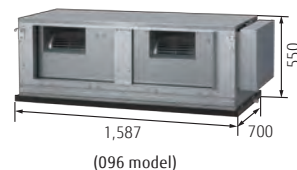
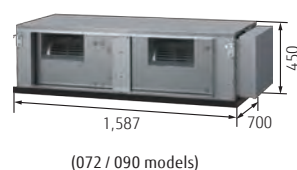
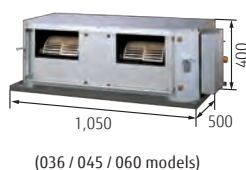
Static pressure selection

By using DC fan motor, it is possible to change the static pressure range from 0 to 200Pa (036GTEH) / 250Pa (045 / 060GTEH) / 300Pa (072 / 090 / 096GTEH).



Easy installation (Compact size & Lightweight)

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

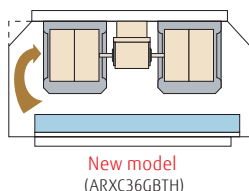


(Unit: mm)

Low noise

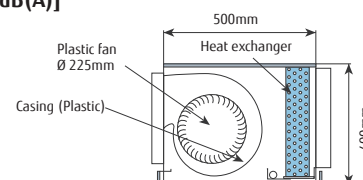
036 / 045 / 060 models

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.



036 model : Plastic fan [42dB(A)]

* Model : Material
(At 100 Pa : Actual noise measurement value)



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.



**Model: ARXC036GTEH / ARXC045GTEH / ARXC060GTEH
ARXC072GTEH / ARXC090GTEH
ARXC096GTEH**



ARXC036/045/060GTEH



ARXC072/090GTEH



ARXC096GTEH

Specifications

Model name			ARXC036GTEH	ARXC045GTEH	ARXC060GTEH*	ARXC072GTEH*	ARXC090GTEH*	ARXC096GTEH*
Power source			Single phase, ~230V, 50Hz					
Capacity	Cooling	BTU/h	38,200 (11.2)	42,600 (12.5)	61,400 (18.0)	76,400 (22.4)	85,300 (25.0)	95,500 (28.0)
	Heating	(kW)	42,600 (12.5)	47,800 (14.0)	68,200 (20.0)	85,300 (25.0)	95,500 (28.0)	107,500 (31.5)
Input power		W	207	715	730	681	819	838
Airflow rate	High	m³/h	1,990	3,500	3,500	3,900	4,300	4,850
	Med		1,680	3,000	3,000	3,300	4,000	4,250
	Low		1,330	2,460	2,460	3,000	3,500	3,600
Static pressure range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static pressure			100	100	100	150	150	150
Sound pressure level	High	dB (A)	42	49	49	47	48	48
	Med		36	45	45	43	46	45
	Low		32	42	42	40	44	42
Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,587 × 700	450 × 1,587 × 700	550 × 1,587 × 700
Weight		kg	40	46 (101)	46 (101)	84	84	105
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52(Flare)	9.52 (Brazing)
	Gas		15.88 (Flare)	15.88 (Flare)	15.88 (Flare)	19.05(Flare)	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.

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.

* 060 / 072 / 090 / 096 models cannot be connected to J-III / J-IIS Series.

Optional parts

Long-Life Filter : UTD-LF60KA (For 036 / 045 / 060 models)

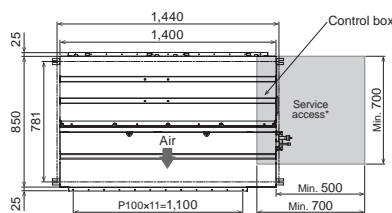
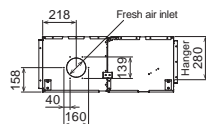
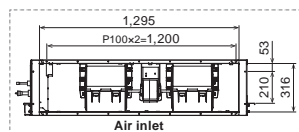
IR Receiver Unit : UTI-TRHX

Remote Sensor Unit : UTI-XSZXZ1

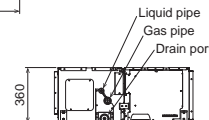
External Power Supply Unit : UTZ-GXXC

Dimensions (Unit: mm)

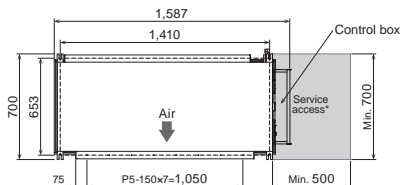
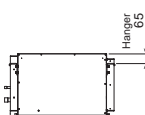
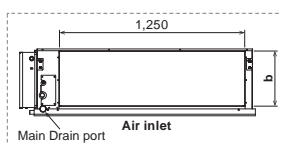
Models: ARXC036/ARXC045/ARXC060



*The design of the service access depends on the installation method. Refer to the installation manual for more information.

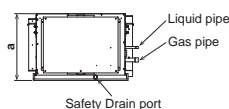


Models: ARXC072/ARXC090/ARXC096



	ARXC072 / 090 GTEH	ARXC096 GTEH
a	450	550
b	370	470

*The design of the service access depends on the installation method. Refer to the installation manual for more information.



Floor / Ceiling



Flexible installation

Example for floor installation

Floor console



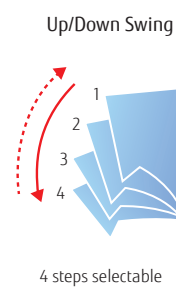
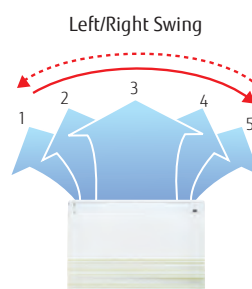
Example for ceiling installation

Under ceiling



Double auto swing

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



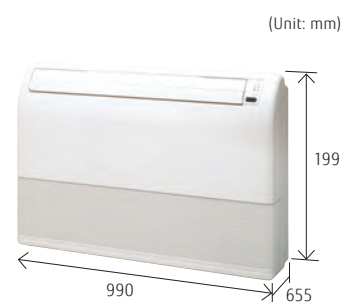
High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.



Model: AB*A012GTEH / AB*A014GTEH
AB*A018GTEH / AB*A024GTEH

Floor
standing



Specifications

Model name			AB*A012GTEH	AB*A014GTEH	AB*A018GTEH	AB*A024GTEH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h (kW)	12,300 (3.6)	15,400 (4.5)	19,100 (5.6)	24,200 (7.1)
	Heating		13,600 (4.0)	17,100 (5.0)	21,500 (6.3)	27,300 (8.0)
Input power		W	30	42	74	99
Airflow rate	High	m ³ /h	660	780	1,000	1,000
	Med-High		620	740	910	930
	Med		580	690	830	870
	Med-Low		550	640	750	800
	Low		520	600	660	740
	Quiet		490	550	580	680
Sound pressure level	High	dB (A)	36	40	46	47
	Med-High		34	39	44	45
	Med		33	38	42	43
	Med-Low		31	36	40	41
	Low		29	35	37	39
	Quiet		28	34	35	37
Dimensions (H × W × D)		mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg	25	26	26	27
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	9.52
	Gas (Flare)		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.

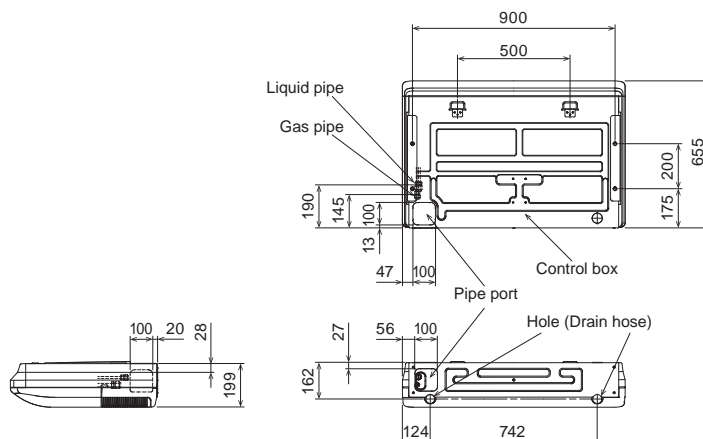
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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-GXXC

Dimensions (Unit: mm)

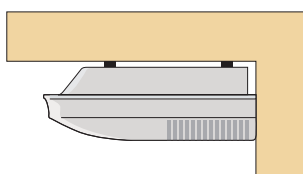


Ceiling



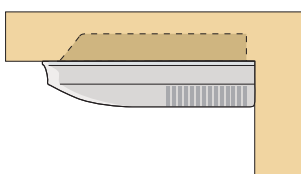
Installation

Open



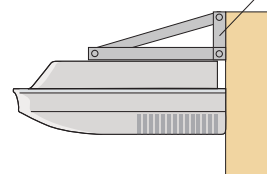
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

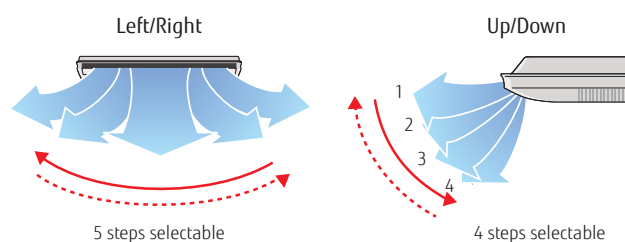
Wall mounted (Field Supplied)



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



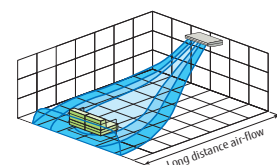
High power DC fan motor

- High power
- Wide rotation range
- High efficiency

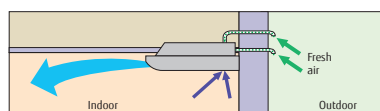


Long airflow

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



Fresh air intake



Slim & Compact design



Model: AB*A030GTEH / AB*A036GTEH
AB*A045GTEH / AB*A054GTEH



Specifications

Model name			AB*A030GTEH	AB*A036GTEH	AB*A045GTEH	AB*A054GTEH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h (kW)	30,700 (9.0)	38,200 (11.2)	42,600 (12.5)	47,800 (14.0)
	Heating		34,100 (10.0)	42,600 (12.5)	47,800 (14.0)	54,600 (16.0)
Input power		W	66	85	131	180
Airflow rate	High	m³/h	1,630	1,690	2,010	2,270
	Med-High		1,520	1,560	1,840	2,070
	Med		1,420	1,450	1,690	1,860
	Med-Low		1,320	1,360	1,530	1,660
	Low		1,220	1,270	1,380	1,470
	Quiet		1,140	1,170	1,230	1,280
Sound pressure level	High	dB (A)	42	45	48	51
	Med-High		40	41	46	49
	Med		39	39	45	46
	Med-Low		37	38	41	43
	Low		35	36	38	40
	Quiet		33	34	35	36
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	15.88	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.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

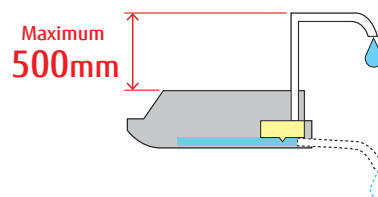
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

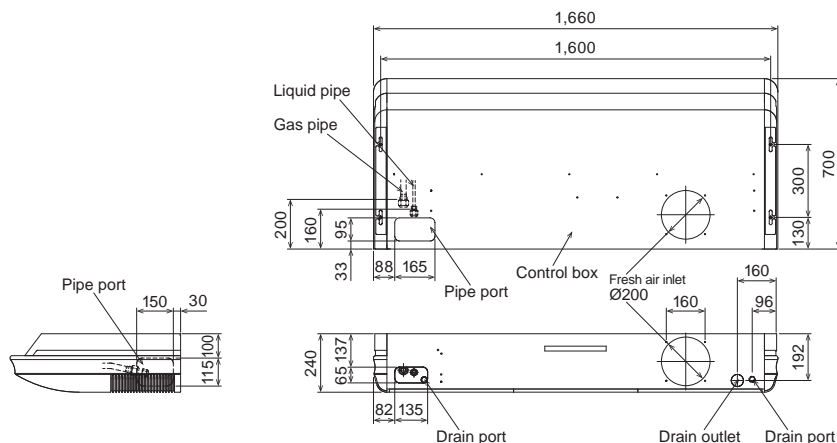
Drain Pump Unit : UTR-DPB24T

Flange : UTD-RF204

External Power Supply Unit : UTZ-GXXC



Dimensions (Unit: mm)



Wall-mounted type



High efficient and compact design

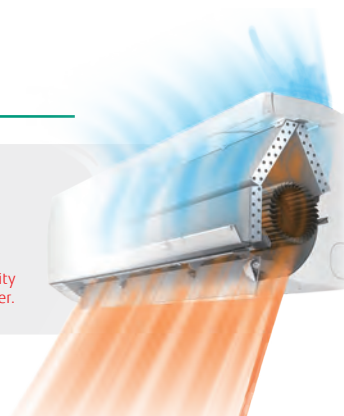
The 007-014 model has a common design. High efficient compact design is realised by mounting a high density and large heat exchanger. The compact body makes it possible to install discreetly even in a meeting room or office where comfortable air conditioning is provided.

High-density heat exchanger



Slim tube design: 5 mm

Greater heat-exchanging capacity is achieved through the use of a high-density heat exchanger and a sub-heat exchanger.

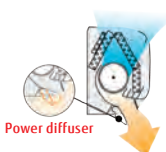


More comfort airflow

Comfortable air conditioning is provided by mounting our unique power diffuser.

Heating

Vertical airflow provides powerful floor level heating



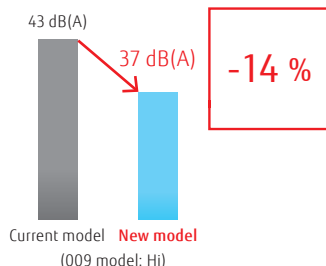
Cooling

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



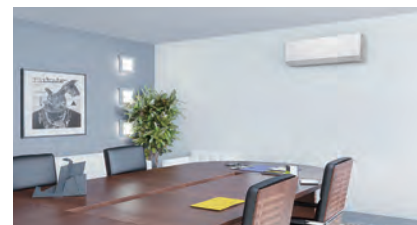
Quiet operation & 6 Fan speed control

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



6-Step Speed

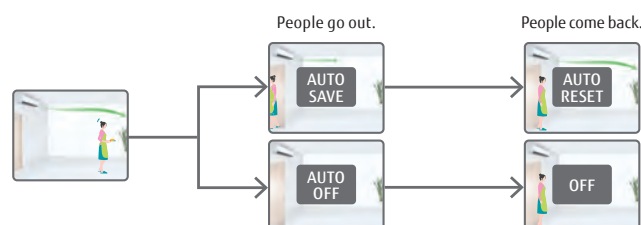
- High
- Med-High
- Med
- Med-Low
- Low
- Quiet



* Compatible Remote Controller is as follows:
UTY-RNRGZ5 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGGZ2 / UTY-DTGGZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Human sensor increases energy saving operation

Energy saving operation starts automatically by detecting the motion of a person in the space. There are 2 modes available, an energy saving mode or a auto off mode available.



Model: (EEV internal)
AS*A007GCGH / AS*A009GCGH
AS*A012GCGH / AS*A014GCGH



Specifications

Model name			AS*A007GCGH	AS*A009GCGH	AS*A012GCGH	AS*A014GCGH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h (kW)	7,500 (2.2)	9,600 (2.8)	12,300 (3.6)	13,600 (4.0)
	Heating		9,600 (2.8)	10,900 (3.2)	13,600 (4.0)	15,400 (4.5)
Input power		W	16	20	25	36
Airflow rate	High	m³/h	550	610	690	800
	Med-High		510	560	610	740
	Med		470	510	560	680
	Med-Low		410	440	530	610
	Low		360	360	470	550
	Quiet		310	310	330	330
Sound pressure level	High	dB (A)	34	37	40	44
	Med-High		32	35	37	42
	Med		30	32	35	40
	Med-Low		28	29	33	37
	Low		26	26	30	34
	Quiet		22	22	24	24
Dimensions (H × W × D)		mm	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203
Weight		kg	8.5	8.5	8.5	8.5
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35
	Gas (Flare)		9.52	9.52	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.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

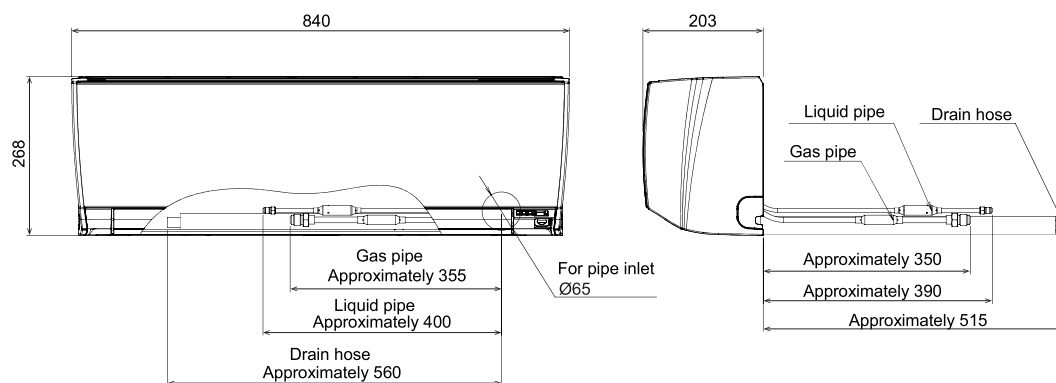
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

When AS*A007GCGH and AS*A009GCGH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø12.70.

Optional parts

External Power Supply Unit : UTZ-GXXC

Dimensions (Unit: mm)

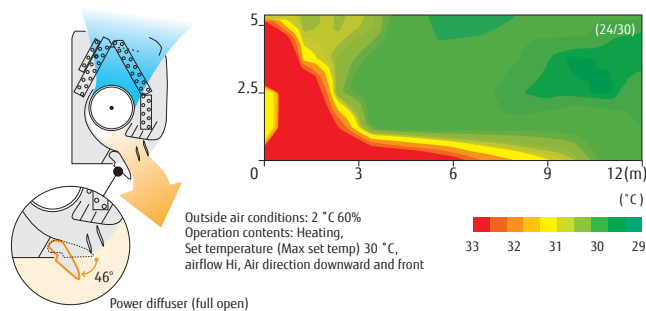


Wall-mounted type

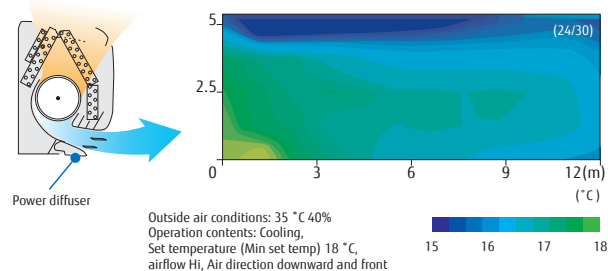


More comfort airflow by adopting power diffuser

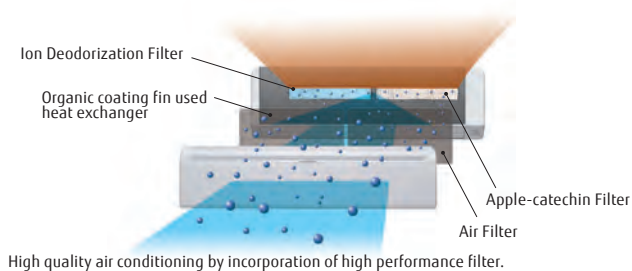
"Vertical airflow"
provides powerful floor level heating



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



Air conditioner filter features



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.

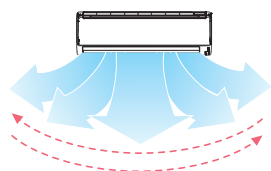
Apple-catechin Filter

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

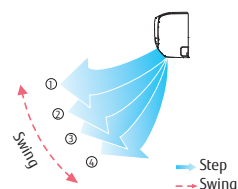
Double auto swing

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

5 steps selectable



4 steps selectable



Compact & Slim design

By using DC fan motor, compact design is realized.



Model: AS*A18GACH / AS*A24GACH / AS*A30GACH
AS*A18GATH / AS*A24GATH / AS*A30GATH



Specifications

Model name			AS*A18GACH AS*A18GATH	AS*A24GACH AS*A24GATH	AS*A30GACH AS*A30GATH
Power source			Single phase, ~230V, 50Hz		
Capacity	Cooling	BTU/h	19,100 (5.6)	24,200 (7.1)	27,300 (8.0)
	Heating	(kW)	21,500 (6.3)	27,300 (8.0)	30,700 (9.0)
Input power		W	32	60	91
Airflow rate	High	m³/h	840	1,100	1,240
	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.

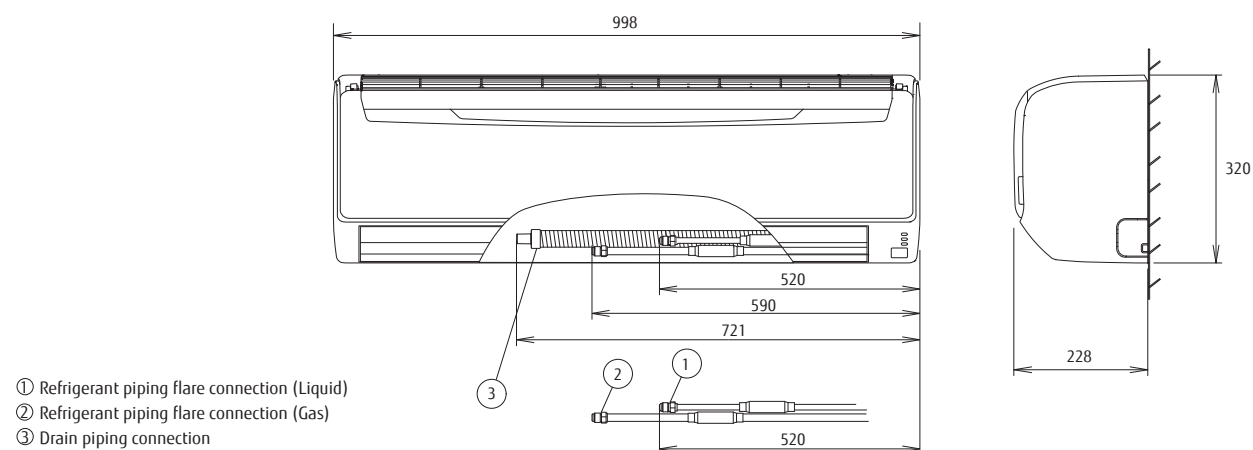
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

Dimensions (Unit: mm)



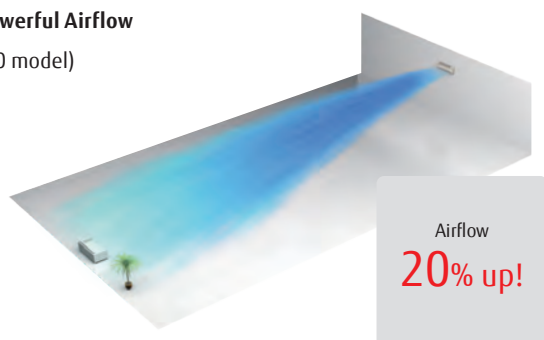
Wall-mounted type



Powerful & Comfort airflow

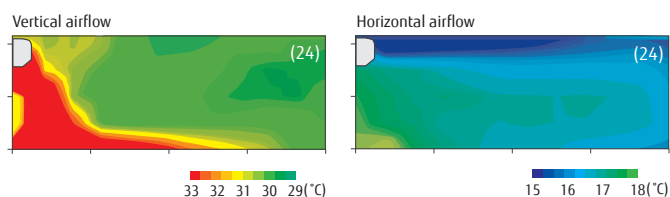
Powerful Airflow

(30 model)



Power diffuser

(18/24 models)

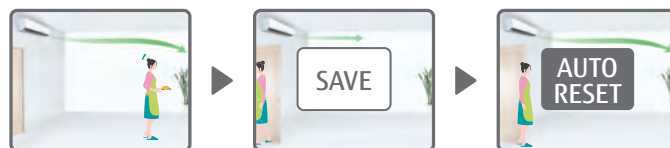


Human sensor (30/34 models only)

A human sensor senses the movement of humans to reduce operation when one is in the room. the wasteful consumption of energy is reduced automatically to keep down electricity bills. (Available to wired remote controller as UTY-RNRGZ5 and UTY-DCGGZ2)

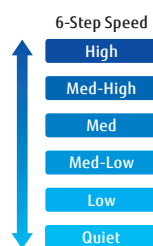
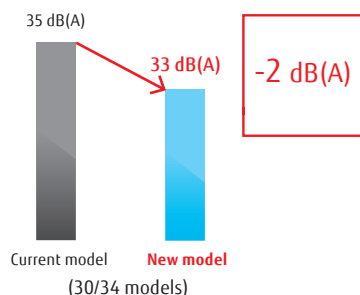


Human sensor



Quiet operation & 6 Fan speed control

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



* Compatible Remote Controller is as follows:
UTY-RNRGZ5 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGGZ2 / UTY-DTGGZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Model: AS*A18GBCH / AS*A24GBCH
AS*A030GTEH / AS*A034GTEH



AS*A18/24GBCH



AS*A030/034GTEH

Specifications

Model name			AS*A18GBCH	AS*A24GBCH	AS*A030GTEH	AS*A030GTEH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	BTU/h	19,100 (5.6)	24,200 (7.1)	30,700 (9.0)	34,100 (10.0)
	Heating	(kW)	21,500 (6.3)	27,300 (8.0)	34,100 (10.0)	38,200 (11.2)
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
Dimensions (H × W × D)		mm	320 × 998 × 238	320 × 998 × 238	340 × 1,150 × 280	340 × 1,150 × 280
Weight		kg	15	15	18	18
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 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.

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 AS*A18GBCH is connected to the outdoor unit other than J-III, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

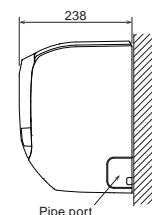
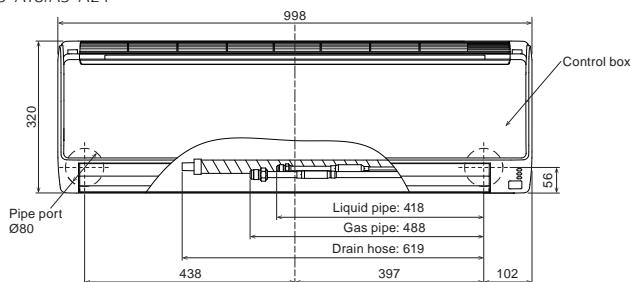
Optional parts

External Power Supply Unit: UTZ-GXXC (ASYA***GTEH)

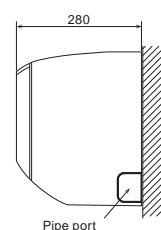
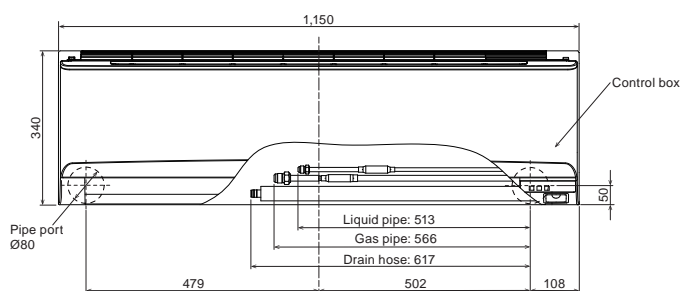
Silver ion filter II: UTR-FA16-8 (030/034GTEH)

Dimensions (Unit: mm)

Models: AS*A18/AS*A24



Models: AS*A030/AS*A034



VENTILATION

Outdoor-air Processing Unit range

Airflow rate (m ³ /h)	1080	1680	2100
Model code	054	072	096
Outdoor-air Processing Unit	 ARXH054GTAH	 ARXH072GTAH	 ARXH096GTAH

DX Kit
for Air Handling Unit or Fresh Air Handling Unit application

A modern office interior featuring a large, vibrant living wall with a mix of green and reddish-pink plants. In the foreground, two ergonomic office chairs with black and white upholstery are positioned at a white desk. A laptop is open on the desk. The ceiling has a concrete finish with a square ventilation grille. A track light is mounted on the wall above the living wall. The overall atmosphere is bright and contemporary.

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.

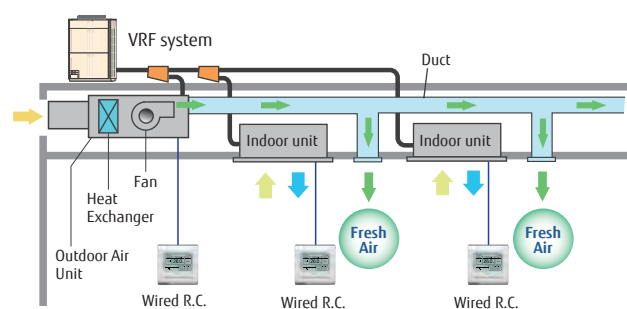
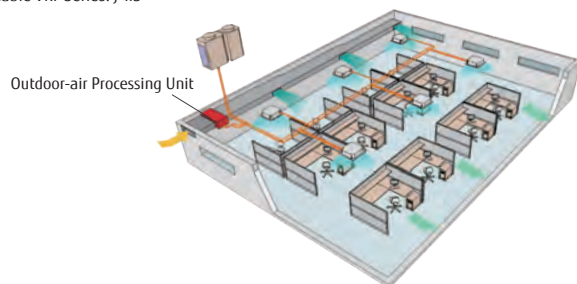
Outdoor-air Processing Unit



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

Outdoor-air Processing 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.

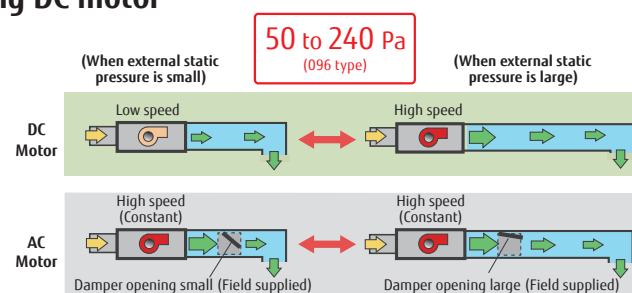
*1. Connectable VRF Series: J-IIS



* 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 Processing Unit connection capacity 30% or less of the outdoor unit capacity.

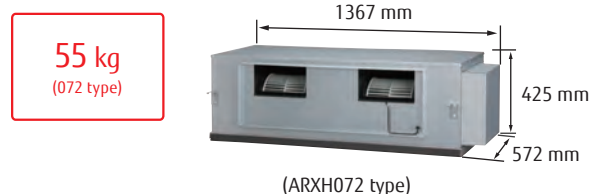
High energy savings and flexible duct design by using DC motor

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



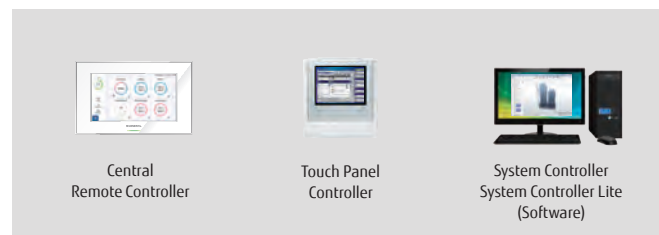
Various Controller

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.

Model:

ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

Production by order



ARXH054



ARXH072



ARXH096

Specifications

Rated flow rate			1000 m³/h	1500 m³/h	2000 m³/h
Model name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source		V/Ø/Hz	220-240V, 50Hz		
Capacity	Cooling	BTU/h	47,800 (14.0)	76,400 (22.4)	95,500 (28.0)
	Heating	(kW)	30,400 (8.9)	47,400 (13.9)	59,400 (17.4)
Input power	Cooling	W	179	292	370
	Heating		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 × W × D)		mm	425 × 1,367 × 572	425 × 1,367 × 572	450 × 1,583 × 700
Weight		kg	48	55	71
Connection pipe diameter	Small	mm	9.52	12.70	12.70
	Large		19.05	22.22	22.22
Operating 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.

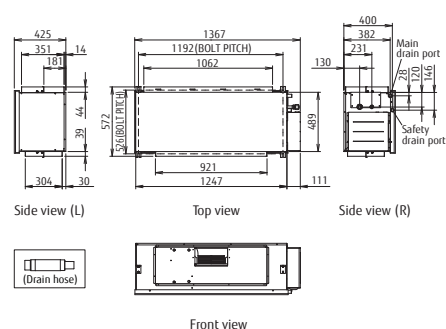
Cooling : Outdoor temperature of 33°CDB / 28°CWB.

Heating : Outdoor temperature of 0°CDB / -2.9°CWB.

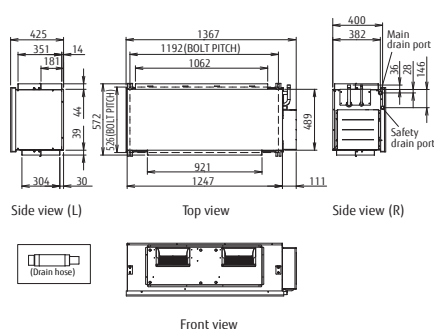
Pipe length : 7.5 m Voltage : 230 [V].

Dimensions (Unit: mm)

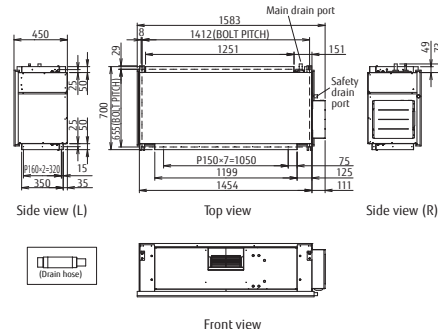
Model: ARXH054



Model: ARXH072



Model: ARXH096

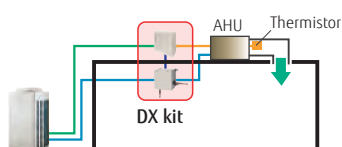


DX kit

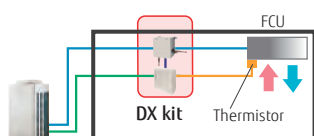
for Air handling applications
for VRF Outdoor unit



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

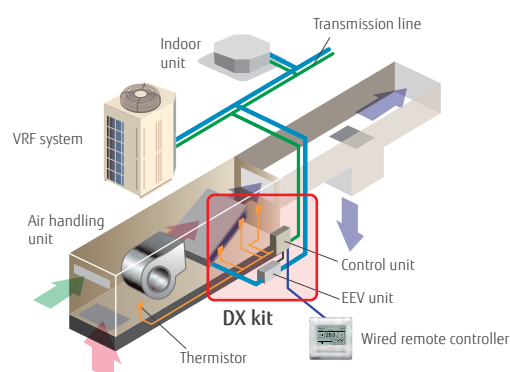


When connected to an Air handling unit, the temperature of supply air is controlled by a discharge air sensor.



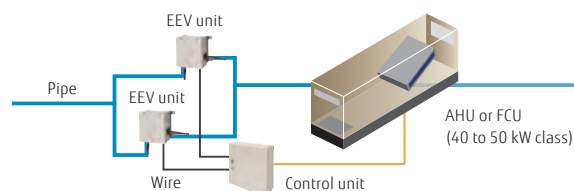
When connected to a fan coil unit, the room temperature is controlled by the discharge air sensor.

Application as part of a VRF system



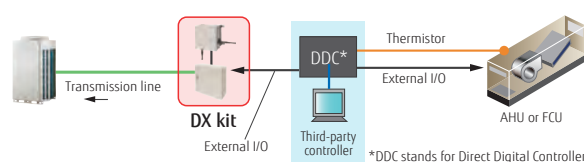
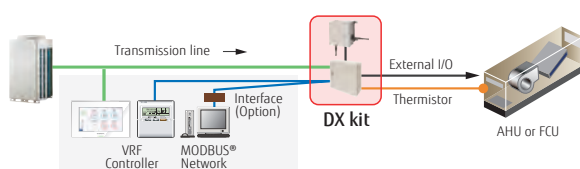
Supports a wide range of capacity classes

- Two EEV units can be connected in parallel to large-capacity units of up to 20 HP (50 kW). (UTP-LX180A separation tube 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



*DDC stands for Direct Digital Controller

Summary of functions

Inputs

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

Outputs

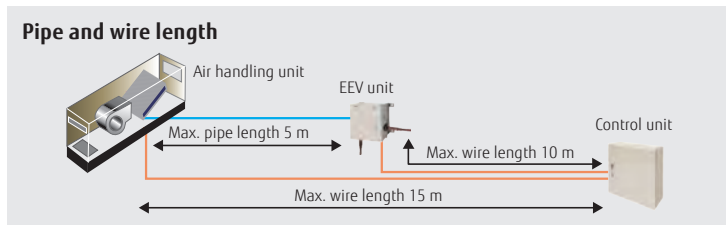
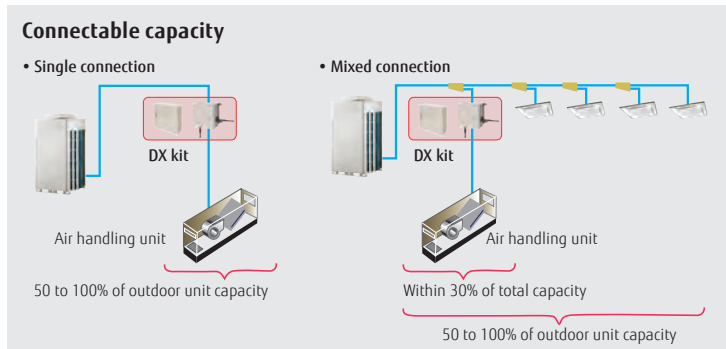
- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

Modbus Control

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

Installation requirements

- Connectable VRF Series : All VRF
- 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.



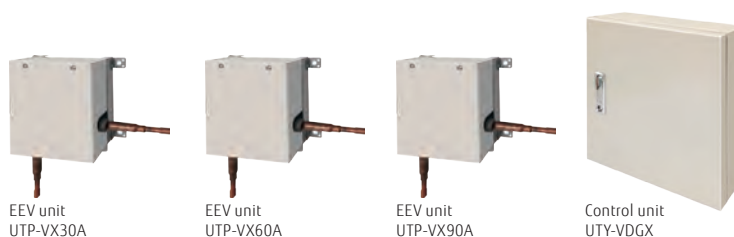
[For 2EEV units connection (option)]

- Separation Tube : UTP-LX180A



Control unit: UTY-VDGX

EEV unit: UTP-VX30A/UTP-VX60A/UTP-VX90A



Specifications

EEV unit			UTP-VX30A			UTP-VX60A			UTP-VX90A		UTP-VX90A×2		
Power source		V/Ø/Hz	230/1/50										
Connectable capacity class		kW	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0	
Capacity	Cooling	kW	5.6 (5.1-5.9)	6.3 (6.0-7.1)	8.0 (7.2-9.0)	10.0 (9.1-11.1)	12.5 (11.2-13.2)	14.0 (13.3-18.0)	22.4 (18.1-23.7)	25.0 (23.8-28.0)	40.0 (28.1-44.7)	50.4 (44.8-50.4)	
	Heating		6.3 (5.7-6.7)	7.1 (6.8-8.0)	9.0 (8.1-10.0)	11.2 (10.1-12.4)	14.0 (12.5-15.0)	16.0 (15.1-20.0)	25.0 (20.1-26.5)	28.0 (26.6-31.5)	45.0 (31.6-49.9)	56.5 (50.0-56.5)	
Airflow Rate(Reference value)		m³/h	1,060	1,200	1,520	1,600	2,000	2,240	3,560	4,000	6,400	8,000	
Dimensions (H × W × D)		mm	160 × 220 × 90									(160 × 220 × 90)× 2	
Weight		kg	2									2 × 2	
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52	12.70	12.70	12.70	12.70	

Control unit			UTY-VDGX										
Power source		V/Ø/Hz	230 / 1 / 50										
Dimensions (H × W × D)		mm	400 × 400 × 120										
Weight		kg	10										

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].

VRF CONTROL SYSTEMS

BEST CONTROL SOLUTION FOR EACH PROPERTY

CONTROL SYSTEM OVERVIEW

COMPARISON TABLE OF CONTROLLERS

Individual Controller

Centralized Controller

Converter / Adaptor



User friendly control system provides individual control to centralized control

The VRF control system can perform air conditioning control of individual room, centralized control by floor or by building, or centralized energy saving air conditioning control for large buildings. A variety of air conditioning management schemes are available to match the application, such as linking with the building control system, linking with a single split models, and using various interfaces.

CONTROL SYSTEM OVERVIEW

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

NEW



**Wired Remote Controller
(Design type)**
UTY-RVR*



**Wired Remote Controller
(Touch panel)**
UTY-RNR*Z5



Wired Remote Controller
UTY-RLR*



**Compact
Wired Remote Controller**
UTY-RCR*Z1
UTY-RCR*Z1K



Simple Remote Controller
UTY-RSR*
UTY-RHR* Without operation mode



Wireless Remote Controller
UTY-LNH*



For Duct



For 3D Flow
Cassette / Duct



For Cassette



For Circular
Flow Cassette

IR Receiver Unit

UTB-YWC
For Duct type

UTY-TRHX
For 3D Flow Cassette / Duct

UTY-LRH*B1
For Cassette type

UTY-LBHXD
For Circular Flow Cassette

Air Conditioning

Centralised Control



Internet or
Public
Telephone
Line

USB adapter *1
(Field supplied)



Remote /
monitoring side

System controller **Software**

UTY-APGXZ1
UTY-ALGXZ1 (Lite edition)

Maximum controllable
1600*
indoor units

* Lite edition is maximum controllable 400 indoor units



Internet or
LAN



Remote /
monitoring side

Touch Panel Controller

UTY-DTG*Z1

Maximum controllable
400
indoor units



**Central Remote
Controller**
NEW UTY-DCGG*3

Maximum controllable
100
indoor units



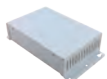
Converter / Adaptor

For external device

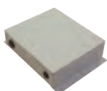
BACnet™ Gateway
UTY-ABGXZ1 **Software**



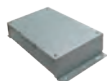
BACnet™ Gateway
VTY-VBGX **Hardware**



Network Converter For LonWORKS™
UTY-VLGX



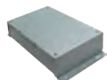
MODBUS™ Converter For VRF
UTY-VMGX



MODBUS™ Converter For Indoor unit
UTY-VMSX



KNX™ Converter For VRF
UTY-VKGX



KNX™ Converter For Indoor unit
UTY-VKSX



Wireless LAN Adapter
FJ-RC-WIFI-1 / UTY-TFSXZ2 /
NEW UTY-TFSXJ3



External Switch Controller
UTY-TERX



Card-key
(Field supplied)



Internet device



BMS / BAS*2



BMS, Home automation system



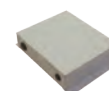
*1. USB Adaptor: Echelon™ U10 USB Network Interface

*2. BMS/BAS: Building Management System/Building Automation System






Converter / Adaptor







For system expansion

Signal Amplifier
UTY-VSGXZ1



COMPARISON TABLE OF CONTROLLERS

Item							
			Wired Remote Controller (Design type)	Wired Remote Controller (Touch panel)	Wired Remote Controller	Compact Wired Remote Controller	Compact Wired Remote Controller
Model name			UTY-RVRY / UTY-RVRG	UTY-RNRYZ5 / UTY-RNRGZ5	UTY-RLRY / UTY-RLRG	UTY-RCRYZ1 / UTY-RCRGZ1	UTY-RCRYZ1 / UTY-RCRGZ1
Max. controllable remote controller groups			1	1	1	1	1
Max. controllable indoor units			16	16	16	1	1
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 the 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		—	—	—	—	—
	Logo Display		●	—	—	—	—
	Timer	Schedule timer	Period	Week	Week	Week	—
ON/OFF, Temp, Low noise mode*5, Times per day			8	8	4	—	—
On/off timer		—	●	●	●(OFF only)	●(OFF only)	
Sleep timer		—	—	—	—	—	
Program timer		—	—	—	—	—	
Auto off timer		●	●	●	—	—	
Day off		●	●	●	—	—	
Min. unit of timer setting (Minutes)		1 • 10	10 • 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	Simple Remote Controller ^{*1}	Wireless Remote Controller	Central Remote Controller	System Controller Lite <small>Software</small>	System Controller <small>Software</small>
UTY-RSRY / UTY-RSRG	UTY-RHRY / UTY-RHRG	UTY-LNHY / UTY-LNHG	UTY-DCGYZ3 / UTY-DCGGZ3	UTY-ALGXZ1	UTY-APGXZ1
1	1	1	100	400	1600
16	16	16	100	400	1600
—	—	—	50	400	1600
●	●	●	●	●	●
●	—	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	—	●	●	●
●	●	●	—	—	—
—	—	●	●	●	●
—	—	—	● ^{*3}	—	—
—	—	—	●	●	●
—	—	—	●	●	●
—	—	—	●	●	●
—	—	—	—	—	—
—	—	●	●	●	●
—	—	—	●	●	●
●	●	—	●	●	●
●	●	—	●	●	●
—	—	●	●	●	●
—	—	—	●	●	●
●	●	—	●	●	●
●	●	—	—	●	●
●	●	—	● ^{*4}	● ^{*4}	● ^{*4}
—	—	—	●	●	●
—	—	—	●	●	●
—	—	—	●	●	●
●	●	—	●	—	—
—	—	—	—	—	●
—	—	—	●	●	●
—	—	—	—	—	—
—	—	—	Week	Year	Year
—	—	—	20	144	144
—	—	●	—	—	—
—	—	●	—	—	—
—	—	●	—	—	—
—	—	—	●	—	—
—	—	—	●	●	●
—	—	5	10	10	10
—	—	—	●	●	●
—	—	—	—	○	●
—	—	—	●	●	●
—	—	—	● ^{*2}	—	—
—	—	—	●	○	●
—	—	—	—	○	○
—	—	—	●	●	●
—	—	—	●	●	●
—	—	—	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. ^{*5} UTY-DCGGZ3 only
 ●: Supported ○: Optional function —: Not supported yet

NEW Wired remote controller (Design type) UTY-RVRY / UTY-RVRG



Up to
16 indoor units
Up to
1 group



reddot winner 2024



Simple and stylish design that harmonizes with the space

- The new stylish design controller, UTY-RVRY, enables intuitive operation with touch screen. It is compatible with many 2-wired indoor units.

Harmonizes with the Installation Space

When not in use, the controller is a part of the interior décor.

This is achieved by using mirrors, glass, and clear panels, and it appears to be one with the wall.

The sleek and stylish design won the 2022 Good Design Award and was selected as a finalist for the 2023 IDEA award.



Intuitive operation

The touch screen is easily operated by swiping vertically and horizontally, and users can operate the controller without using manuals.

Temp. Setting



Operation Mode



Status LED Colors

When not in use, the operation mode is indicated through LED lamp colors shown under the controller.

The LED lamp can be switched ON and OFF to avoid glare at night.



Blue: Cooling



Red: Heating



Green: Dry



Purple: Auto

Features: Wired remote controller (Design type)

Logo Display

The controller can display hotel logos when not in use. Images are sent via Bluetooth® connection where data is saved in the flash memory built into each controller.

* Color display available

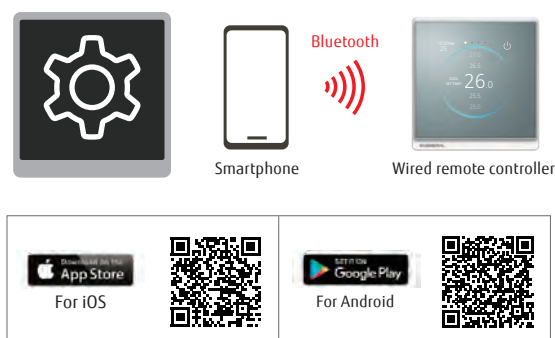


AIRSTAGE Remo Set application (free download)

Set up your new Wired Remote Controller via Bluetooth from your smartphone (or directly at the controller).

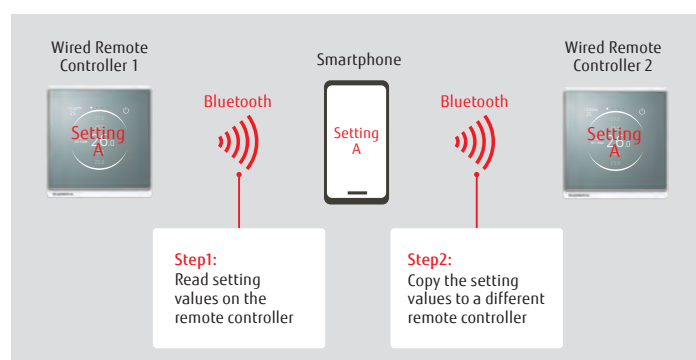
Features:

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



Initial Settings / Indoor Unit Function

The initial controller settings and indoor unit function settings can be sent from a smartphone by pairing with the controller via Bluetooth. It also can read the setting values of a paired controller, and send a copy of them to one or more additional controllers, significantly reducing installation time.



*Smartphone : Wired Remote Controller = 1 : 1

Specifications

Model name		UTY-RVR*
Power Supply		DC 12V
Dimensions (H x W x D)	mm	121.5 × 116 × 26
Weight	g	225

Wired remote controller (with touch panel)

UTY-RNRZ5 / UTY-RNRGZ5



Up to
16 indoor units
Up to
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

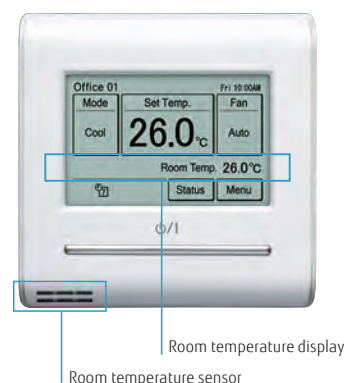
High performance and compact size

- In addition to the individual control, 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.



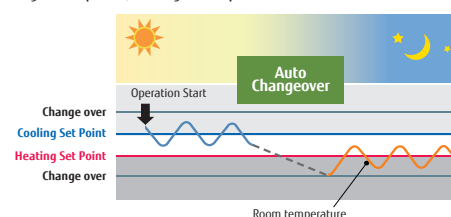
Various energy saving control

Custom Auto

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

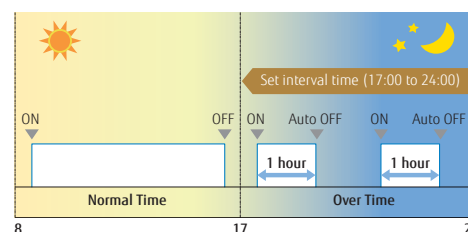
* This function is not available for some models.

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-RNR*Z5	
Power Supply	DC 12V	
Dimensions (H x W x D)	mm	120 × 120 × 20.4
Weight	g	220

DC12V is supplied by indoor unit.

Wired remote controller

UTY-RLRY / UTY-RLRG



Up to
16 indoor units
Up to
1 group

- 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

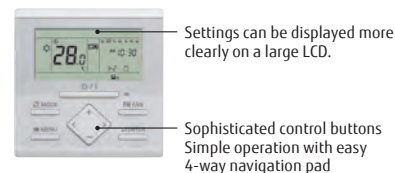
High performance and compact size

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



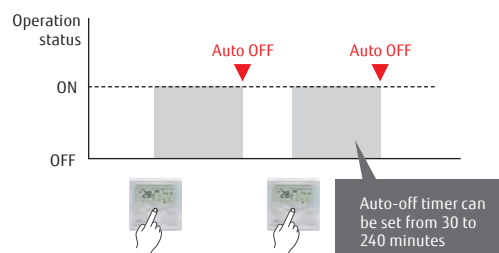
Visually intuitive operation

- The operation mode, set temperature, and fan speed are shown prominently on the top screen.
- Each function to be set is indicated by an icon.
- The control guide makes it simple and straightforward to operate a remote controller.



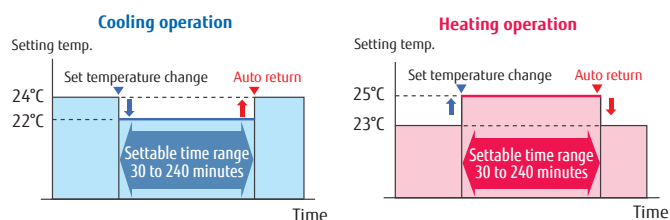
Auto-off timer

- The indoor unit automatically turns off after a set time has passed.



Set temperature auto return

- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 240 minutes.



Specifications

Model name	UTY-RLR*	
Power Supply	DC 12V	
Dimensions (H x W x D)	mm	120 × 120 × 17
Weight	g	170

DC12V is supplied by indoor unit.

Simple remote controller

UTY-RSR* / UTY-RHR* (without operation mode)



UTY-RSRG

UTY-RHRG
(Without
operation mode)

Up to
16 indoor units
Up to
1 group

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

Corresponding to various applications

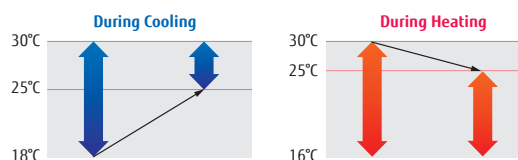
• Vertical louver control:

Vertical airflow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.



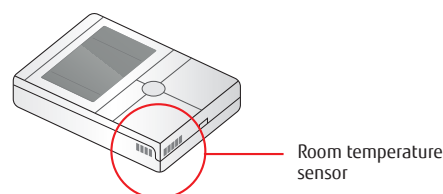
• Room temperature set point limitation:

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.



Room temperature
sensor

Specifications

Model name		UTY-RSR*	UTY-RHR*
Power Supply		DC 12V	
Dimensions (H x W x D)	mm	120 × 75 × 19.4	
Weight	g	120	

Wireless remote controller

UTY-LNHY / UTY-LNHG



Up to
16 indoor units
Up to
1 group
Up to
4 different daily timers

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in daily timer

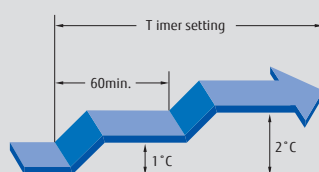
Select from 4 different timer programs : On / Off / Program / Sleep

Program timer : The program timer operates the ON and OFF timer once within a 24 hour period.

Sleep timer : The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

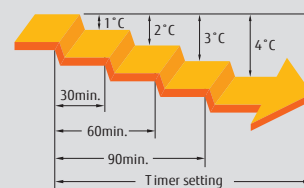
Cooling operation/dry operation

When the sleep timer is set, the set temperature automatically rises 1°C every hour. The set temperature can rise up to a maximum of 2°C.



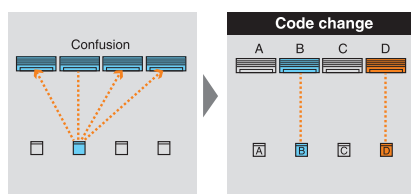
Heating operation

When the sleep timer is set, the set temperature automatically drops 1°C every 30 minutes. The set temperature can drop to a maximum of 4°C.

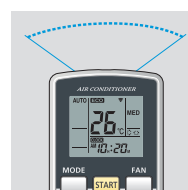


Easy installation and operation

Code selector switch prevents indoor unit mix-up.
(Up to 4 codes can be set.)

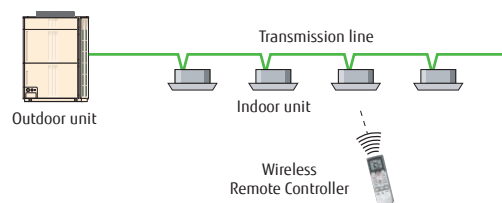


Wide and precise



Address setting

During installation work, address setting can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.



Specifications

Model name		UTY-LNH*
Power Supply		1.5V (R03 / LR03 / AAA) × 2
Dimensions (H × W × D)	mm	170 × 56 × 19
Weight	g	85

IR receiver unit for duct type

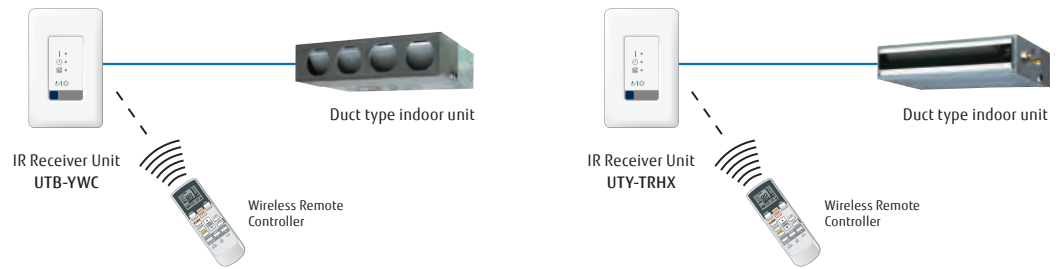
UTB-YWC / UTY-TRHX

Duct type indoor units can be controlled with Wireless Remote Controller

- 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.

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

Wiring connection



Specifications

< Wireless Remote Controller >

Model name		UTB-YWC	UTY-TRHX
Power Supply		1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)
Dimensions (H x W x D)	mm	170 × 56 × 19	170 × 56 × 19
Weight	g	85	85

< IR Receiver Unit>

Battery		DC 5V	DC 5V
Dimensions (H x W x D)	mm	145 × 90 × 30	145 × 90 × 30
Weight	g	150	150

IR receiver unit for Cassette

UTY-LRHGB1, UTY-LBHxD, UTY-TRHX

Cassette type indoor unit can be controlled with Wireless Remote Controller

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

Wiring connection



Specifications

< Wireless Remote Controller >

Model name		UTY-LRH*B1	UTY-LBHxD	UTY-TRHX
Power Supply		1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)
Dimensions (H x W x D)	mm	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19
Weight	g	85	85	85

< IR Receiver Unit>

Battery		DC 5V	DC 5V	DC 5V
Dimensions (H x W x D)	mm	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	145 × 90 × 30
Weight	g	140	140	150

NEW Central remote controller

UTY-DCGYZ3 / UTY-DCGGZ3



Up to
100 indoor units
Up to
50 groups

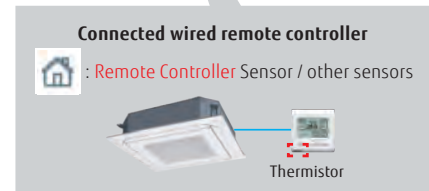
For tenants in small to midsize commercial premises

- Individual control and monitoring of up to 100 indoor units
- 7.0inch TFT color screen
- Visually intuitive operation
- Room temperature display by indoor unit sensor & remote controller sensor
- 50 Remote Controller Groups Display & remote controller group rename
- Supports 14 languages: Chinese (Simplified/Traditional), Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, Turkish, and Thai (Remote Management only)

Easy Management

Air conditioning management by detecting room temperatures of each room

The room temperature detected with indoor unit sensor or remote controller sensor can be displayed. New model can detect the room temperature by indoor units sensors even if wired remote controllers are not connected to the indoor units.



50 Remote Controller Groups Display

The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

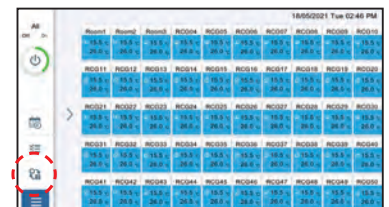
Group Display



Manage & Monitor
by each Groups



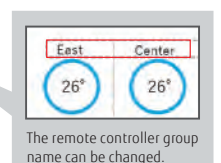
50 Remote Controller Groups Display



Manage & Monitor
by 50 Remote Controller Groups

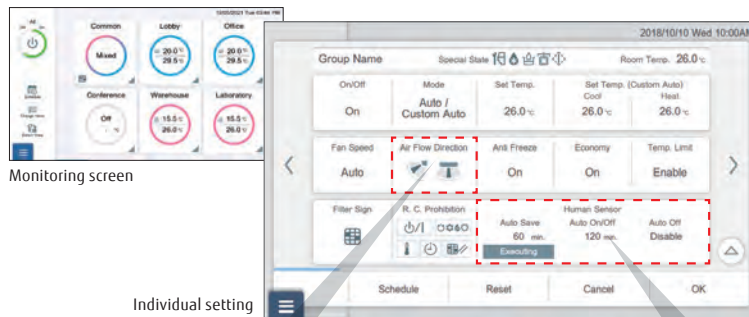
Remote Controller Groups Rename

The remote controller group names can be changed. Users can know easily where the air conditioning is located by changing the remote controller group names.



Features: Central Remote Controller

- Easy intuitive operation from the touch panel display.
- All functions can be accessed through the monitoring screen showing a pop-up window for detailed operation.



Added individual wind direction control

Individual wind direction control has been added.
Circular Flow cassette / 3D Flow cassette

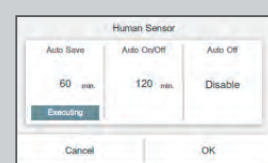


Circular flow cassette

Human Sensor Compatible

Human sensor setting

- Auto save
- Auto on / off
- Auto off detection time
- Enable and disable



Remote Management

Remote monitoring / Remote operation

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

When the central remote controller manages the indoor units of some tenants, air conditioning of each tenants can be managed separately online.

Increased the Number of Accounts



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 Management

Annual schedule

- An annual schedule can be arranged for each remote controller group or user-defined group.
- Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.



low noise schedule

Low noise operation of outdoor units can be scheduled.



Automatic return to set temperature

A function that automatically returns the changed temperature to its original value over time.

Specifications

Model name	UTY-DCG*Z3	
Power Supply	100-240 V 50 / 60 Hz	
Dimensions (H x W x D)	mm	134.6 × 216.2 × 37.9
Weight	g	800

Touch panel controller

UTY-DTGYZ1 / UTY-DTGGZ1



- Large-sized 7.5-inch TFT colour
- LCD easy touch operation
- Stylish shape and design to suit all applications
- 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 and operation, external input / output with emergency stop and batch ON / OFF

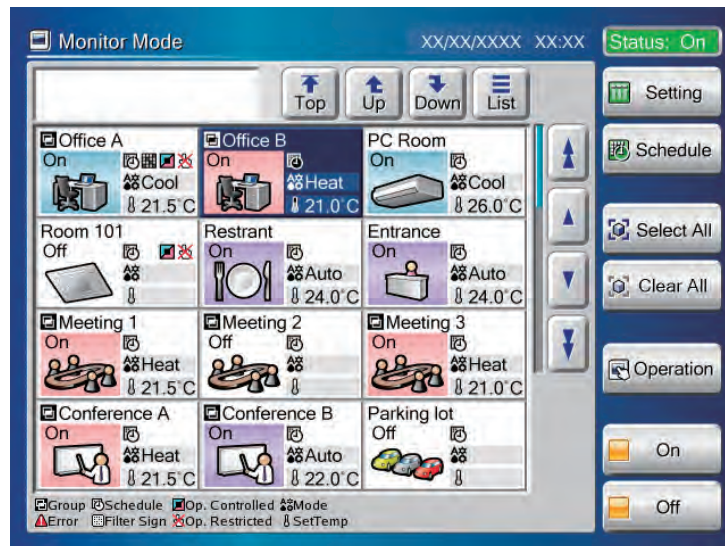
Up to
400 indoor units

Up to
100 outdoor units

Up to
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 colour 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 minimises fingerprint marking
- Easy to remove front cover

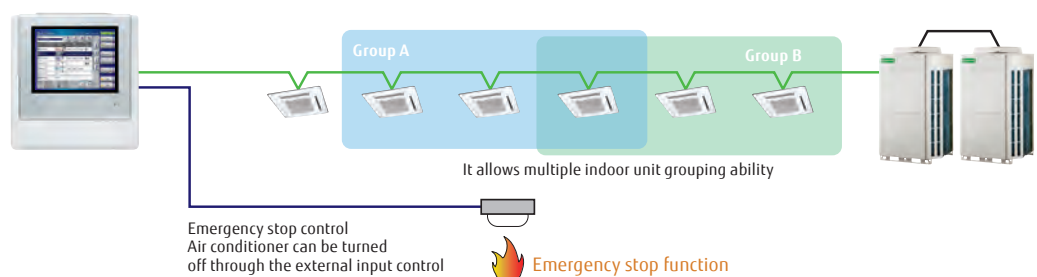


Easy installation

- The touch panel controller is easily mounted to the wall
- The flat back surface allows the controller to be installed wherever required
- No additional components are required for installation



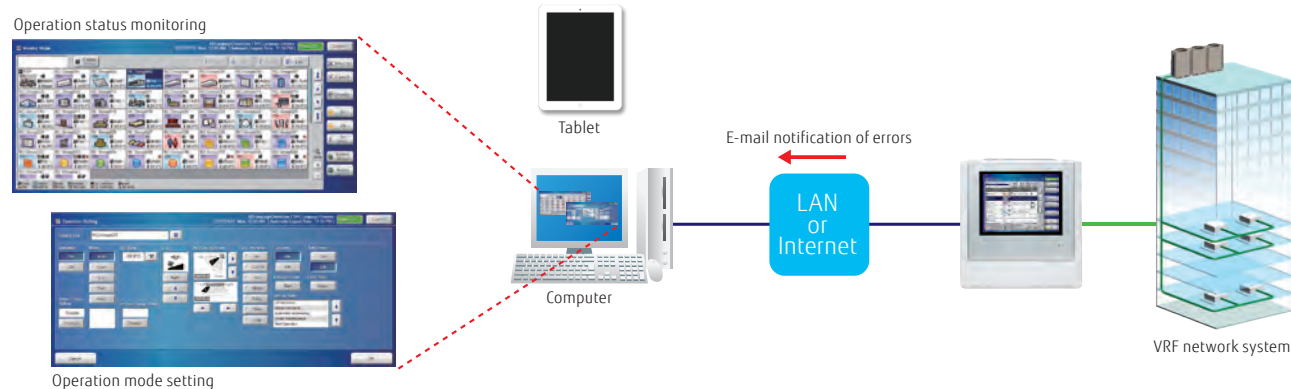
Up to 400 indoor units can be controlled



Features: Touch panel controller

Control and monitoring

- Control and monitor Fujitsu air conditioners via LAN or Internet
- Allow the user or tenant to manage only assigned equipment by their PC or tablet from anywhere
- Error messages can be notified automatically by email upon an error occurrence to enable the issue to be handled promptly



Smartphone

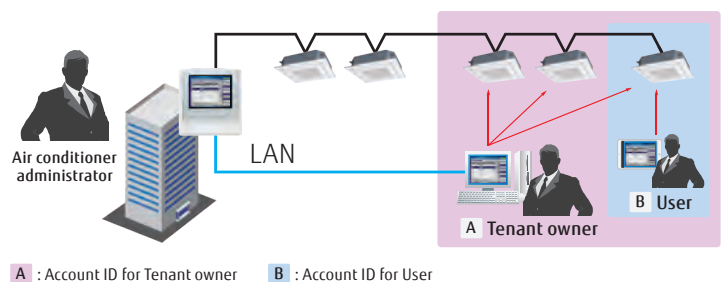
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iPhone 7 (iOS 10.1)	Safari 10

Tablet

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

Flexible access permissions can be granted to users at each point level.

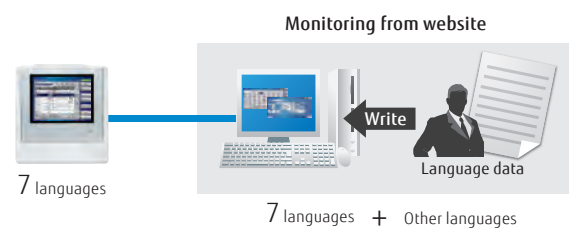
The administrator can register multiple users and permit them to access any indoor unit and any functions.



Additional languages

Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish. Create a language database to integrate additional languages into the remote device.

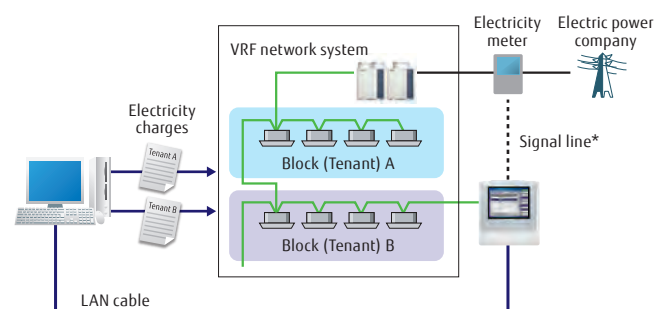
The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.



Electricity charge apportionment (Option: UTY-PTGXA)

- Energy cost can be calculated and allocated to each billing user in proportion to the amount of energy used for air conditioning.

- Apportionment charge/bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment
- Individual calculations for cooling and heating
- Electricity meter supported



* An electricity usage meter can be connected to an external input connector of the Touch panel controller. In that case, the meter cannot be connected to an outdoor unit at the same time.

Control Systems Centralized Controller

Features:

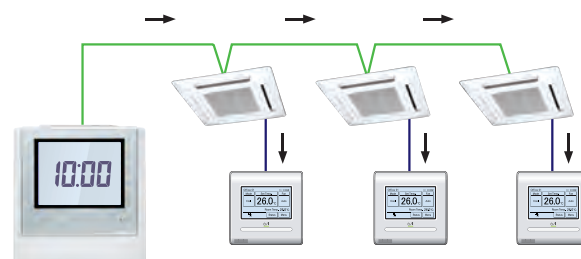
Automatic summer time setting

Function overview

- 1) This function enables a schedule to be set within the system to adjust the timer to summer time at the appropriate time to ensure the time matches the time zone.

Automatic clock adjustment

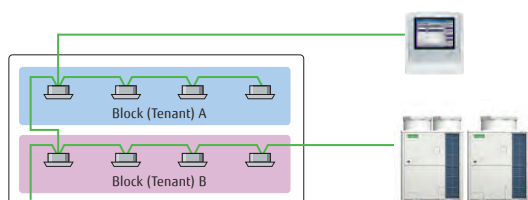
- 2) The time setting of each controller can be set from the one location.



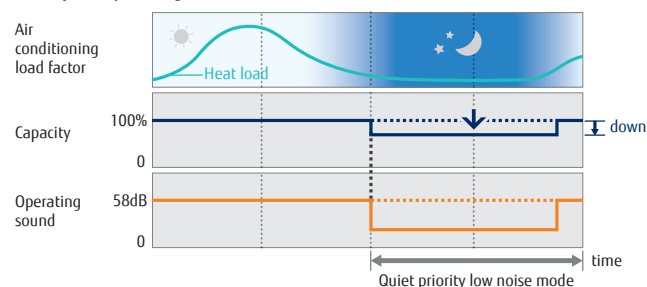
Outdoor low noise operation

Users can choose from 4 low noise levels, depending on the installation environment.

The operation time can be set using the timer.



Quiet priority setting



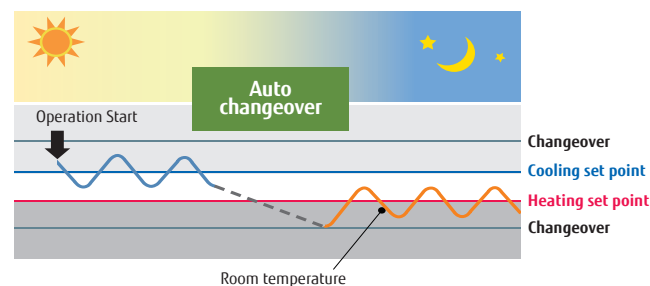
Energy saving control

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





Refrigerant leak detector

Refrigerant leakage status is indicated by the management equipment. A pop-up message is displayed to notify the user, and the refrigerant is shut off.



Pop-up highlighting

FUNCTIONS SUMMARY



		
	UTY-DTG*Z1	Monitoring side
Air conditioning control functions		
ON/OFF	●	●
Operation mode setting*	●	●
Fan speed control	●	●
Room temperature setting	●	●
Setting temperature range limitation	●	●
Test operation	●	●
Vertical louver setting	●	●
Horizontal louver setting	●	●
Individual louver control	●*1	●
Group setting	●	●
Remote controller prohibition	●	●
Anti-freeze setting	●	●
Set temperature auto return	—	●
Energy-saving controls	—	●
Economy mode setting	●	●
Human sensor control	—	●
Displayed items		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
Remote controller prohibition	●	●
Cooling/heating priority	●	●
Address display	●	●
Room temperature	●*3	●*3
Multiple language support	●	●
Setting for daylight saving time	●	●
Time zone setting	●	●
Name registration	●	●
Backlighting	●	●
Language setting	7	7+other
Filter sign reset	●	●
Memory operations	●	●
Refrigerant leak detector	●	●

●: Supported ○: Optional function —: Not supported

*1 Only setting cancellation can be operated.

*2 Only available for external input control.

*3 Available only when using a Wired remote controller.

			
		UTY-DTG*Z1	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		●	●
Minimum unit of timer setting (minutes)		10	10
Control			
Remote monitoring management system		●	●
Electricity charge apportionment		○	○
Error history		●	●
Emergency stop		●*2	●*2
Remote monitoring management		—	●
Energy-saving management		—	—
E-mail notification in case of failure		—	●
Key lock		● Password setting	—
Low noise mode		●	●

Specifications

Model name		UTY-DTG*Z1	
Power Supply		100-240V 50 / 60Hz, Single phase	
Dimensions (H x W x D)	mm	260 × 246 × 54	
Weight	g	2,150	
Interface		Transmission / LAN / USB / EXT IN / EXT OUT / Reset SW	

System controller

UTY-APGXZ1 **Software**

Up to
4 VRF network systems
Up to
400 outdoor units
Up to
1,600 indoor units

System controller enables advanced integrated monitoring and control of VRF network systems operating in small to large buildings.

- Up to 1,600 indoor units and 400 outdoor units on up to 4 VRF network systems can be controlled.
- To accommodate facility management needs, the system controller offers—in addition to precise air conditioning control—remote central control, electricity charge apportionment, schedule management, and energy-saving options for VRF network systems.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.



System controller lite

UTY-ALGXZ1 **Software**

Up to
1 VRF network systems
Up to
100 outdoor units
Up to
400 indoor units

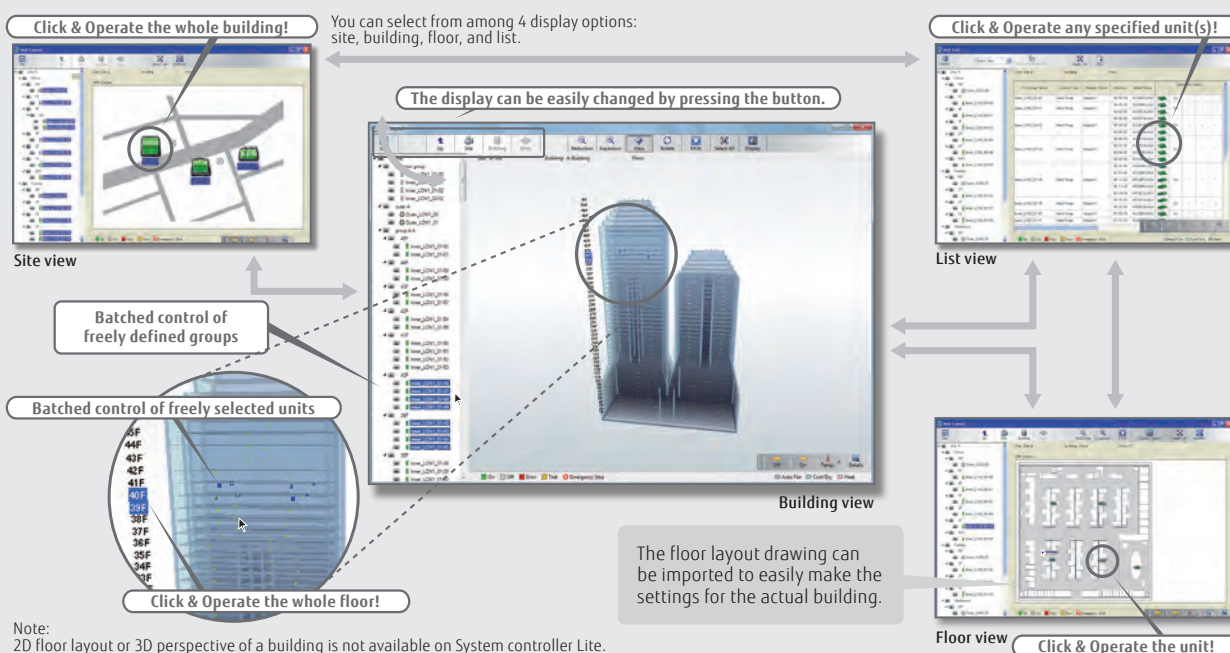
System controller Lite offers a set of standard functions to manage air conditioners operating in a small or midsize building.

- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.



Visually intuitive operation

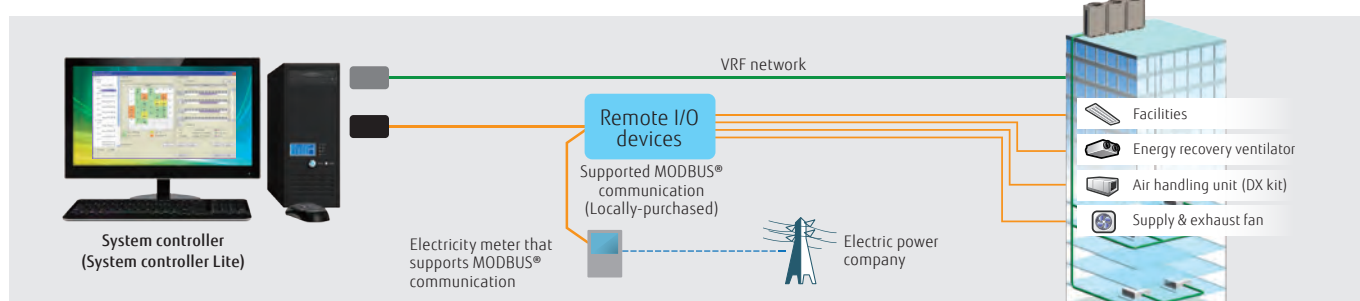
- **Click & Operate** : The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.
- **Freely define groups for batched control** : Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.



Third-party devices connected via MODBUS® can be controlled.

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

When a MODBUS® adapter (locally available) is connected to a computer, electrical equipment and devices supported by MODBUS® can be monitored and controlled centrally from the computer. The central control can reduce wasted energy throughout an entire building resulting from a failure to turn equipment off during or after work, as well as reduce the need for on-site patrols.

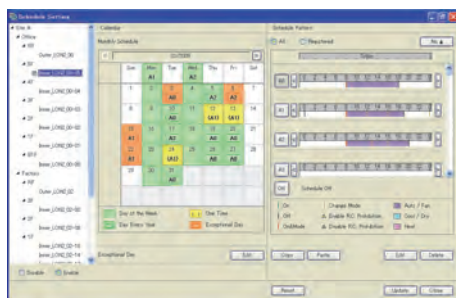


Wide-ranging operation and data management

Standard System controller and System controller Lite

Schedule management

- An annual schedule can be arranged for each remote controller group or user-defined group.
- ON/OFF, operation mode, remote controller prohibition, and temperature settings can be programmed for up to 143 times per day at 10-minute intervals and for up to 101 configurations for each remote controller group.
- Settings can be programmed for a period that spans midnight.
- Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.
- Low noise operation of outdoor units can be scheduled.



Wide-ranging control of indoor and outdoor units

- The operation status and mode of each indoor unit are displayed.
- Turn on and off each indoor unit and switch its operation mode.
- Setting temperature range limitation
- Low noise setting of outdoor units

Remote controller prohibition

Prohibits the operation mode, temperature setting, or ON/OFF of an indoor unit.

Error alert and e-mail notice

When something goes wrong, an error message is shown in a popup on a computer display with a chime, and an e-mail notice is sent. Errors of the past one year are logged and can be reviewed.

Operation and control history

A history of operation status and control can be maintained and retrieved.

Importing and exporting databases

Only an administrator is authorized to import and export registration, layout, and image data.

Automatic clock adjustment

Time can be set for all controllers in batch automatically.

Electricity charge apportionment

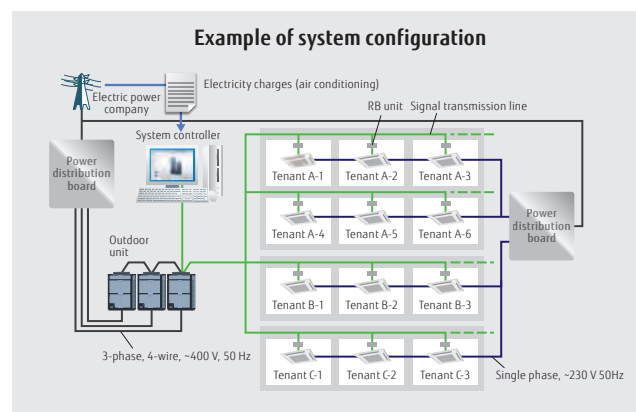
Standard on System controller

Option System controller Lite UTY-PLGXA2

Electricity charge apportionment method

This is a method to calculate monthly energy costs to be allocated to each tenant based on the amount of energy used by their air conditioners. The first step is to determine exactly how much energy is consumed by air conditioners in each tenant space. The second step is to divide the total energy charge billed by an electric power company based on the amount of energy used by each tenant to determine the energy cost to be allocated to each of them. (See figure on right)

The calculation takes into consideration such factors as the number of unused rooms and nighttime electricity rate, which are shown in detail on an energy cost allocation schedule.



Features: System controller / System controller lite

Remote monitoring management

Standard on System controller

Option System controller Lite UTY-PLGX2

The System controller can be used on site or remotely over networks for remote central control.

The System controller requires 2 software programs working together: The VRF controller runs on site and communicates with the VRF system;

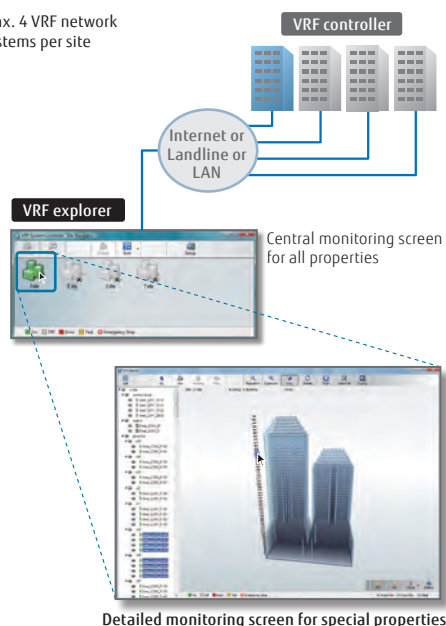
The VRF explorer, which runs at a remote location, provides a user interface and communicates with the VRF controller.

The VRF controller and the VRF explorer run on a single computer or on different computers connected on a network.

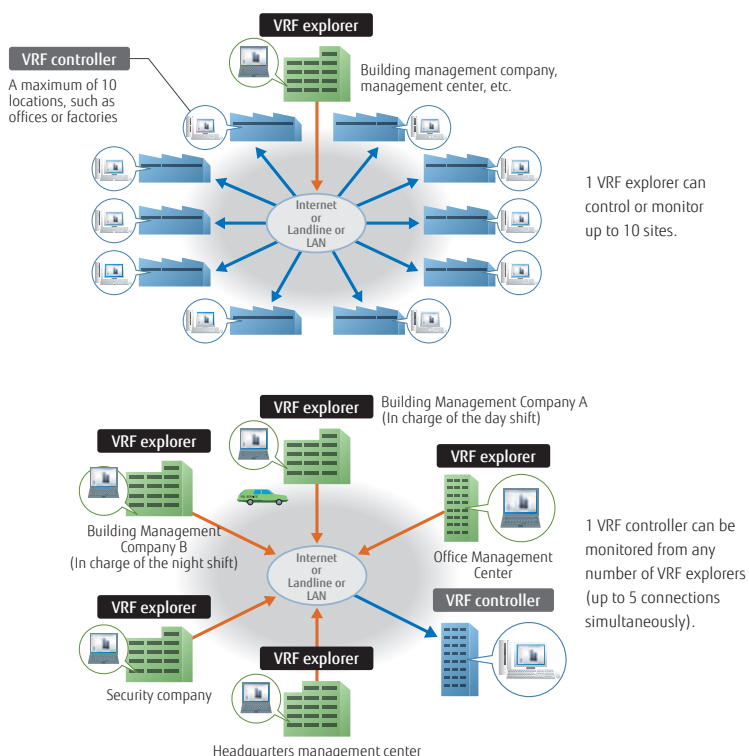
A computer running VRF explorer can centrally control up to 10 VRF system sites having up to 20 buildings each.

On site central control

Max. 4 VRF network systems per site



Remote central control



Energy-saving management

Option System controller UTY-PEGXZ1

Option System controller Lite UTY-PLGX2

A variety of energy-saving options can be selected depending on the season, weather, and time of day. Excellent energy-saving operation is performed while keeping users comfortable.



Main screen for energy-saving management

Energy saving graph data: This chart compares the energy consumption for the current month with the previous month and with the same month of the previous year to keep track of the energy-saving performance.

Indoor unit rotation

Indoor units can be automatically rotated to operate within a group in accordance with a predetermined annual schedule to reduce power consumption while keeping users comfortable. The operation stoppage rate can be selected for an indoor unit.

Peak-cut mode

The system controller monitors the connected power meter and controls the energy to maintain the target power consumption set for each time period by changing the set temperature of the indoor units or turning off the thermostat so as to keep the users comfortable. Indoor units to be controlled can be grouped in many ways, and the control level can be set for each group.

Capacity saving for outdoor unit

The upper limit on the capacity of an outdoor unit can be adjusted to reduce power consumption during a hot summer or cold winter by averaging out the power-saving performance of each refrigerant system. The upper limit on capacity can be set at 50% of the rated capacity or more.

Summary of functions

Functions	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
Specifications	Max. number of VRF networks supported	4	—	1	—	—	—	—
	Max. number of indoor unit and remote controller groups per VRF network	400	—	400	—	—	—	—
	Max. number of outdoor units per VRF network	100	—	100	—	—	—	—
	Max. number of indoor units and remote controller groups per System controller	1600	—	400	—	—	—	—
	Max. number of outdoor units per System controller	400	—	100	—	—	—	—
Site supervision	Multiple site display	10	—	10	—	—	—	—
	Number of buildings per site	20	—	—	—	—	—	—
	Number of floors per site	200	—	—	—	—	—	—
	Number of floors per building	50	—	—	—	—	—	—
	3D graphical layout view	●	—	—	—	—	—	—
	2D graphical layout view	●	—	—	—	—	—	—
	List display	●	—	●	—	—	—	—
	Tree display	●	—	—	—	—	—	—
Error management	Error notification	●	—	●	—	—	—	—
	Audible alarm	●	—	●	—	—	—	—
	E-mail notification of errors	●	—	●	—	—	—	—
History	Error history	●	—	●	—	—	—	—
	Operation history	●	—	●	—	—	—	—
Operation control	Control history	●	—	●	—	—	—	—
	Individual control	ON/OFF	—	●	—	—	—	—
		Operation mode*	—	●	—	—	—	—
		Room temperature	—	●	—	—	—	—
		Fan speed	—	●	—	—	—	—
		Airflow direction	—	●	—	—	—	—
		Economy mode	—	●	—	—	—	—
		Setting temperature range limitation	—	●	—	—	—	—
	Individual management	Anti-freeze	—	●	—	—	—	—
		Low noise setting of outdoor units	—	●	—	—	—	—
		Remote controller prohibition	—	●	—	—	—	—
		Setting temperature range limitation	—	●	—	—	—	—
	Other	Filter sign reset	—	●	—	—	—	—
		memory operations	—	●	—	—	—	—
	Pattern operations	Pattern operations	—	●	—	—	—	—
		Pattern operations	—	●	—	—	—	—
Schedule	Annual Schedule	●	—	●	—	—	—	—
	Setting for a specific date	●	—	●	—	—	—	—
	ON/OFF per day	72	—	72	—	—	—	—
	ON/OFF per week	504	—	504	—	—	—	—
	Day off	●	—	●	—	—	—	—
	Minimum unit of timer setting (minutes)	10	—	10	—	—	—	—
	Weekly schedule for low noise mode	●	—	●	—	—	—	—
Remote monitoring 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	●	—	—	—	●	—	—
	Individual calculations for cooling and heating	—	●	—	—	●	—	—
Energy-saving management	Electricity meter supported	—	●	—	—	●	—	—
	Indoor unit rotation	—	●	—	—	—	●	—
	Peak cut control	—	●	—	—	—	●	—
	Capacity saving for outdoor unit	—	●	—	—	—	●	—
	Record of energy-saving operation	—	●	—	—	—	●	—
	Information on energy saving	—	●	—	—	—	●	—
	Power consumption monitor	—	●	—	—	—	●	—
Control of external devices	Electricity meter supported	—	●	—	—	—	●	—
	Monitor	●	—	—	—	—	—	●
Others	Control	●	—	—	—	—	—	●
	Importing and exporting databases	●	—	●	—	—	—	—
	Automatic clock adjustment	—	—	—	—	—	—	—
	Multiple language support	7 languages	—	7 languages	—	—	—	—
	Refrigerant leak detector	●	—	—	—	—	—	—
	Power shutdown	●	—	●	—	—	—	—

●: Available - : Not available

Computer requirements

The specifications required for the computer are shown in the table below:

	System controller	System controller Lite
Operating system	<ul style="list-style-type: none"> 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) Supports 7 languages: English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	<ul style="list-style-type: none"> 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	
Displayed items	1024 × 768 or higher resolution	
Interfaces	<ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline) Up to 6 USB ports (Only required for a server computer working as a VRF controller) - Maximum of 2 USB ports are required to connect to a White-USB-key/WibuKey - Up to 4 USB ports required to connect to an Echelon® U10 USB network interface * Maximum number of required USB ports depends on the applicable system configuration. 	<ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline) Up to 6 USB ports (Only required for a server computer working as a VRF controller) - Maximum of 4 USB ports are required to connect to a White-USB-key/WibuKey - 1 USB port is required for an Ec ; helon® U10 USB Network interface * The maximum number of required USB ports 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 name: 75010R) (Required for each VRF Network)

<PACKING LIST>

Type	For System controller			For System controller Lite			
	System controller	Option Energy manager	System controller Lite	Remote access	Option Electricity charge apportionment	Energy saving	Centralized 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 a WHITE-USB-KEY. However, a WHITE-USB-KEY is not required for remote VRF explorer software.

BACnet™ gateway

UTY-ABGXZ1 **Software**



White-USB-key
(Software Protection Key)

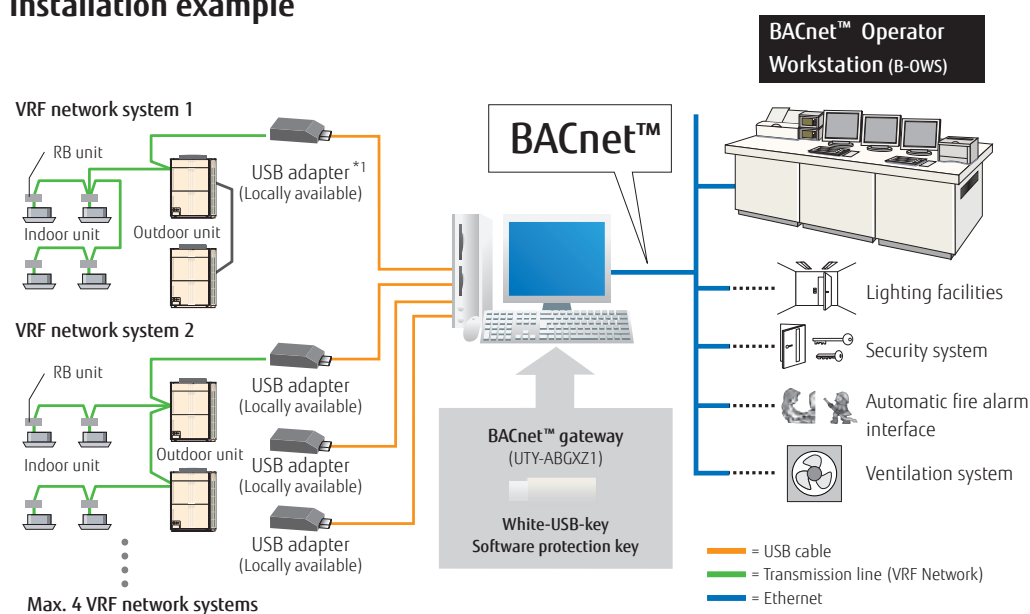


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Up to
4 VRF network systems
Up to
400 outdoor units
Up to
1,600 indoor units

- 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.

Installation example



*1: U10 USB network interface available from Echelon® Corporation.

Specifications

	UTY-ABGXZ1
Operating system	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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® 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**

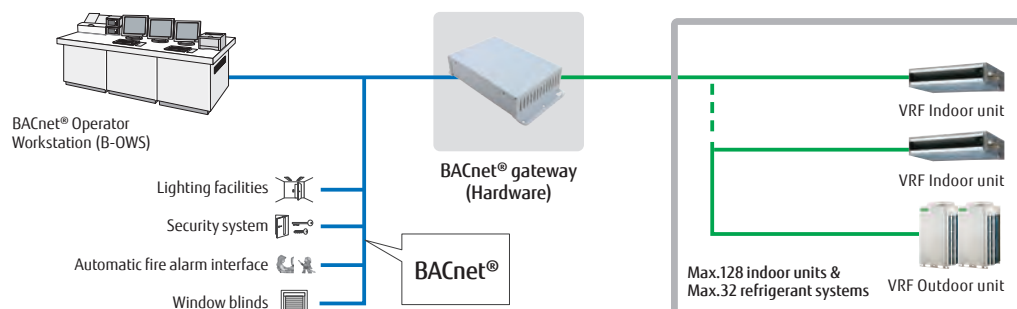


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Up to
1 VRF network systems
Up to
32 refrigerant systems
Up to
128 indoor units

- BACnet® gateway connects BMS and a Fujitsu General VRF system.
- Up to 128 indoor units and 32 refrigerant systems can be connected to a single BACnet® gateway.
- Compatible with BACnet® (ANSI/ASHRAE-135-2012) application-specific controller (B-ASC)
- Compatible with BACnet®/IP over Ethernet.

Installation example



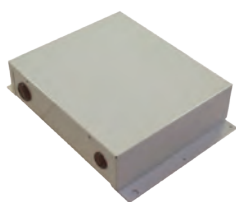
Specifications

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

Model name	UTY-VBGX	
Power Supply	100-240V 50/60Hz, single phase	
Power Consumption	W	4.6 (max)
Dimensions (H x W x D)	mm	59.6 × 270.4 × 176
Weight	g	1,200

Network converter for LONWORKS™

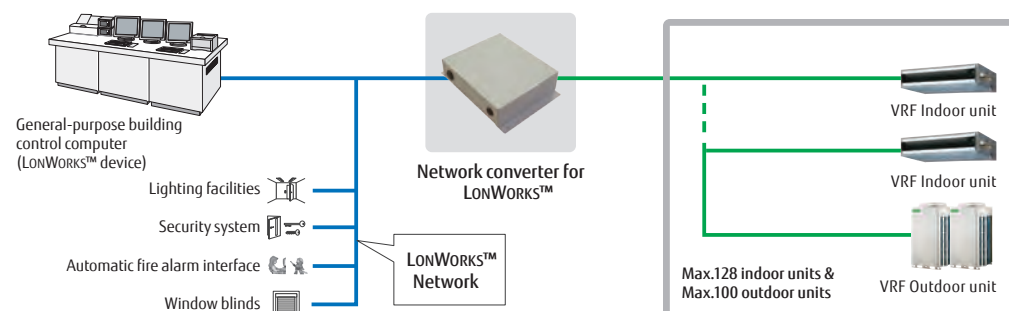
UTY-VLGX



Up to
4 units to BMS
Up to
100 outdoor units
Up to
128 indoor units

- 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 Converter for LONWORKS™

Installation example



Specifications

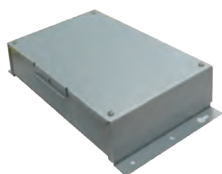
Model name	UTY-VLGX	
Power Supply	208-240V 50/60Hz, Single phase	
Power Consumption	W	4.5
Dimensions (H x W x D)	mm	67 × 288 × 211
Weight	g	1,500

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.)

MODBUS™ convertor for VRF

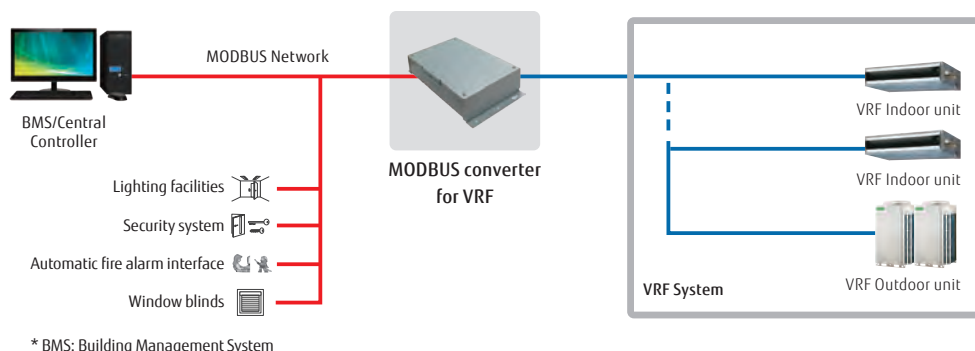
UTY-VMGX **Hardware**



Up to
9 units per VRF system
Up to
100 outdoor units
Up to
128 indoor units

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

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Converter
- The MODBUS Converter permits central monitoring and control of air conditioners from BMS or Central Controller.

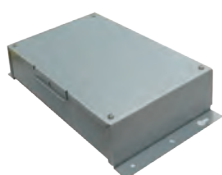


Specifications

Model name		UTY-VMGX
Power Supply		220-240V 50/60Hz
Input power	W	Max. 2
Dimensions (H x W x D)	mm	54 × 260 × 150
Weight	g	1,100

KNX™ converter for VRF

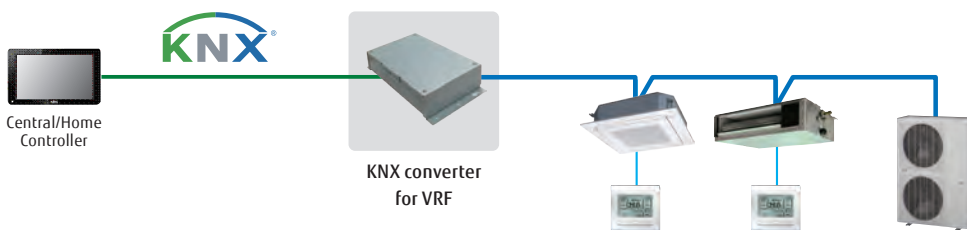
UTY-VKGX **Hardware**



Up to
100 outdoor units
Up to
128 indoor units

It is possible to control the VRF system from central / home controller via KNX network.

- New KNX Converter enables to connect central/home controller and FG VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Converter.



Specifications

Model name		UTY-VKGX
Power Supply		220-240V 50/60Hz
Input power	W	1.5
Dimensions (H x W x D)	mm	54 × 260 × 150
Weight	g	1,200

NEW WLAN adapter UTY-TFSXJ3



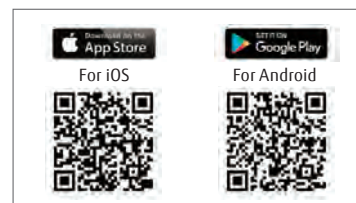
Up to
1 indoor units



AIRSTAGE Mobile

"AIRSTAGE Mobile" is an application software that enables you to manage the Fujitsu General's air conditioner(s) with a mobile device from anywhere.

- Maximum 5 accounts per 1 indoor unit
- Room / Outdoor temperature display
- Can be used for a Single / Multi and VRF indoor units.
- No separate external power supply required
- "AIRSTAGE Mobile" is an application software that enables you to operate the Fujitsu General's air conditioners with a mobile device.



User Friendly for Everyone

Enjoy easy-to-use centralized operation of air conditioners via a smartphone anytime, anywhere



Image*



House Owner



Shop Owner



Commercial Building Owner

Main Functions

- ON / OFF
- Operation mode
- Fan speed
- Louver position
- Set temperature control
- Weekly timer
- Room temperature display
- Outdoor temperature display
- Error display

*Contents of display differ depending on the type of indoor unit.

New Design!

Ease of use is pursued to achieve a stylish design.

The more legible and accessible timer UI enables effortless schedule management.



Mode change



Fan speed change



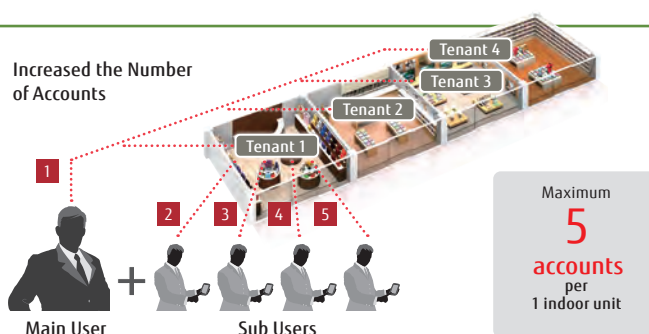
Weekly timer



Centralized operation for flexible remote management of all air conditioners

EVAIRSTAGE Mobile is ideal for a wide range of applications, from large residential buildings to smaller commercial spaces such as offices and stores.

Anyone who has a smartphone and an adapter can easily manage the system at a low cost.



Hierarchical group management

Multiple air conditioners can be combined into a single group for centralized operation.

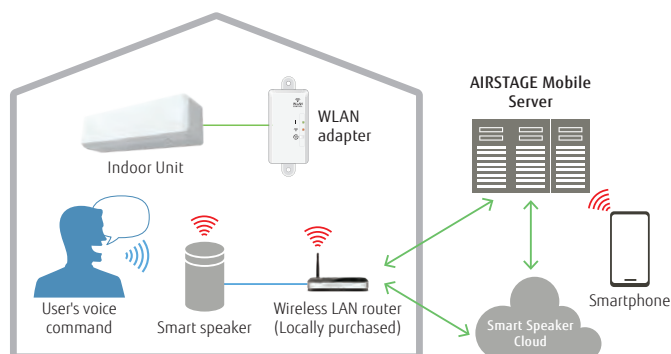
Several groups can also be organized at once.

Grouping the air conditioners by building, floor, or room makes it easy for users to monitor their operation status and operate them quickly.



Operate air conditioner and check its operation status just by talking to it

Connecting with a smart speaker allows the user to operate the air conditioner and check its operation status just by talking to it.



* The new WLAN adapters for AIRSTAGE Mobile are upper compatible for the indoor units that can connect the following WLAN adapters for FGLair.

	CN connector type
for FGLair	UTY-TFSXZ2
for AIRSTAGE Mobile	UTY-TFSXJ3

Specifications

Model name	UTY-TFSXJ3(CN connector type)	
Dimensions (H x W x D)	mm	71 x 38 x 15
Weight	g	35

WLAN adapter

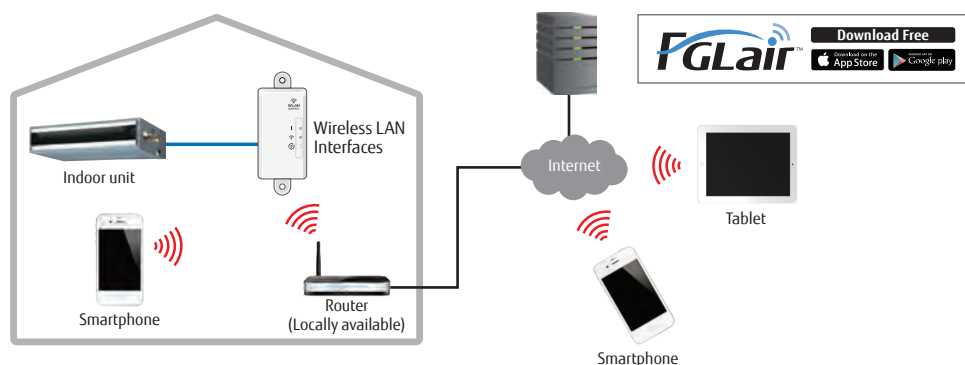
UTY-TFSXZ2



Up to
1 indoor units

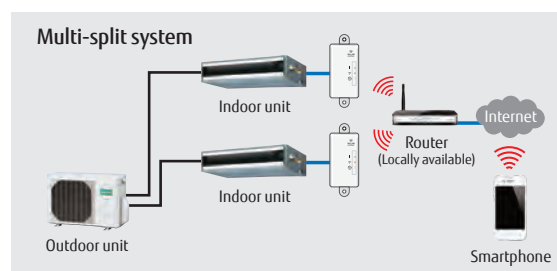


- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required
- Can be used for a Single / Multi and VRF indoor units.



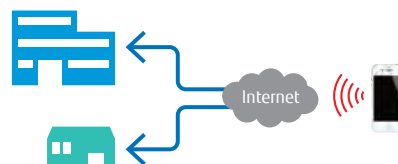
Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed control
- Louver position (airflow direction setting)
- Timer operation setting (Weekly timer)
- Economy mode setting



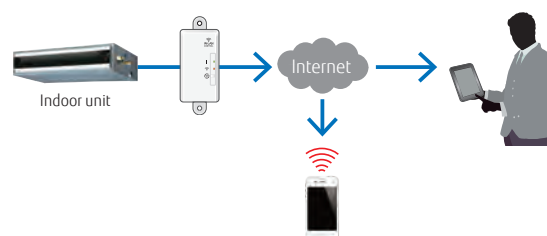
Multiple air conditioning management

- Manage multiple air conditioning systems in different locations.



Error alert and e-mail notice

- E-mail notification alerts
- Air conditioning malfunction alert
- Enables quick service response when errors occur.



Specifications

Model name		UTY-TFSXZ2
Dimensions (H x W x D)	mm	71 × 38 × 15
Weight	g	35

External switch controller

UTY-TERX

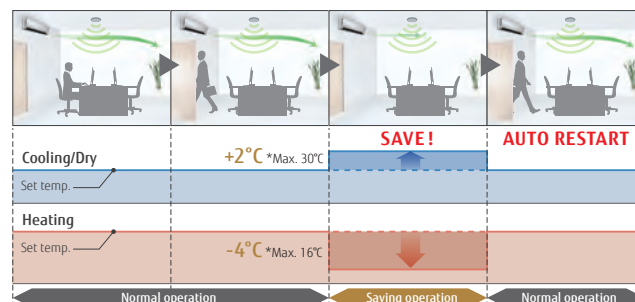


Up to
1 group

- 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. The above example indicated that a signal is sent to this External Switch Controller if human sensor does not detect for 20 minutes. Human sensor is not mounted on the External Switch Controller.

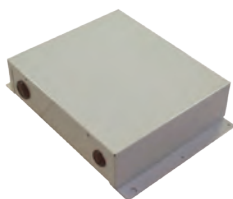
Specifications

Model name		UTY-TERX
Power Supply		DC 6.5-16V
Dimensions (H x W x D)	mm	140 × 117 × 43
Weight	g	250

DC12V is supplied by indoor unit.

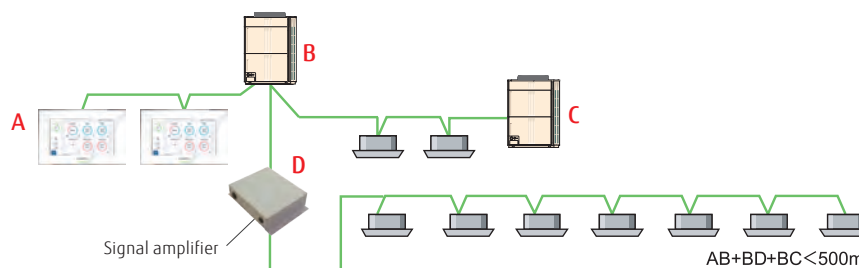
Signal amplifier

UTY-VSGXZ1



- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.
- Up to 40 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 500m.
 - (2) When the total number of units on the transmission line exceeds 64.

Installation example



Specifications

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

OPTIONS

External power supply unit

Auto Louver Grille Kit

Gas sensor kit


CONTROL SYSTEM LIST

OPTIONAL PARTS LIST

OPTIONAL PARTS

FUNCTION LIST

SEPARATION TUBE etc.

A modern interior space featuring a white ceiling with two rectangular VRF air conditioning units. A large mirror is mounted on the white wall, and a glass partition with a dark frame is visible. To the right, a wall is covered in a dark pattern of concentric circles. A small, square, metallic-looking device is mounted on this patterned wall. In the foreground, a black and white desk and a metal stand are partially visible.

Diverse building air conditioning control functions can be controlled easily by VRF options.

Various kinds of optional parts are provided such as controllers, adaptors and converters to meet the needs of every user.

External power supply unit

UTZ-GXXC



The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

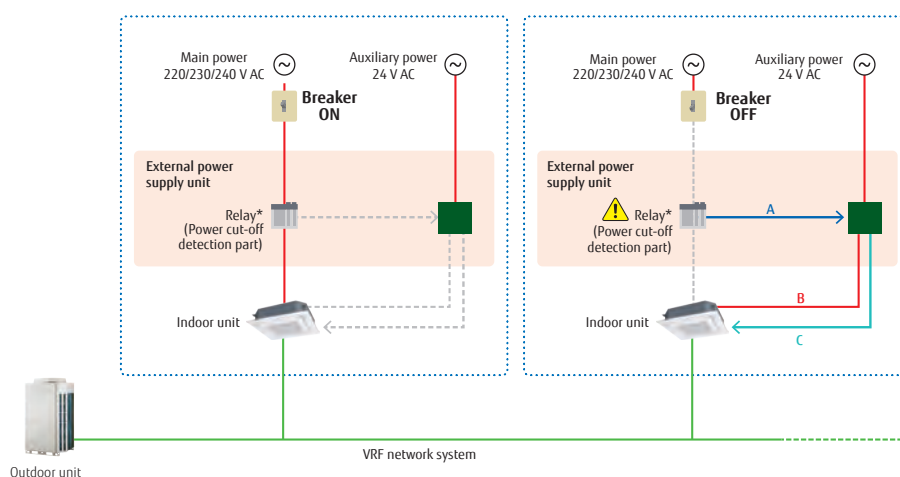
Connects to the External power supply unit to supply power to the indoor unit from the auxiliary power supply. This allows for continuous operation without system errors.

Built-in relays reduce installation time and cost.

The UTZ-GXXC has a built-in relay, which reduces installation time and cost.

High reliability

- A: Interruption of the main power supply is detected by the power cut-off detection part.
- B: Supplies power for driving the expansion valve of the indoor unit. (12 V or 5 V DC)
- C: Gives notification of the power supply from the External power supply unit.



Note

- When changing the power supply voltage to 24 V AC, use a power transformer with an insulated structure that complies with the regulations* of the installation region.
- A powered-off indoor unit driven by the External power supply unit is treated in the same way as an operation-off unit in the electricity charge appointment function. If standby power is generated, the result of the electricity charge appointment may not be zero.

* UL Class II or IEC 61558 Class III, for example.

Specifications

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

Auto louver grille kit

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

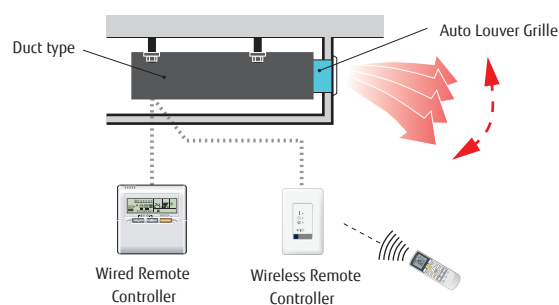


The optional clean-looking flat Auto louver grille kit blends into any interior and provides a comfortable airflow.

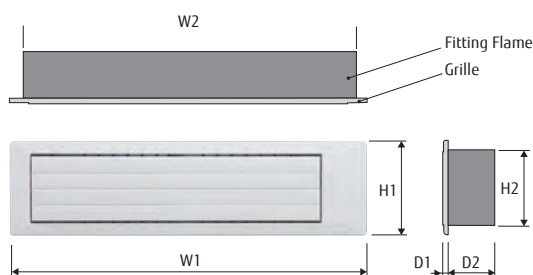


Flexible Control

- 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






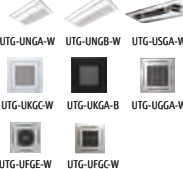






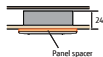

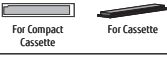





Model name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645	180	148	9	84
UTD-GXTB-W	883	845				
UTD-GXTC-W	1,083	1,045				

Specifications

Model name			UTD-GXTA-W		UTD-GXTB-W		UTD-GXTC-W	
Applicable Indoor Unit			ARXD007/009/012/014GLEH ARXD07/09/12/14GATH ARXK007/009/012/014GLGH ARXK007/009/012/014GLFH		ARXD018GLEH ARXD18GATH ARXK018GLGH ARXK018GLFH		ARXD024GLEH ARXD24GATH ARXK024GLGH ARXK024GLFH	
			Connecting with Control box of indoor unit					
			Screw fixing to Flange or Square Duct					
			1.0m (Max. duct length between indoor unit and Grille)					
Extension Square Duct Limit								
Dimensions (H × W × D)		mm	180 × 683 × (84+9)		180 × 883 × (84+9)		180 × 1083 × (84+9)	
Weight	Net	kg	2.0		2.5		3.0	
	Gross		3.0		3.5		4.0	
Color			White					
Louver Motor			Stepping Motor					
Accessories			Fitting Flame, etc.					
Operating range	Cooling	°C	18 to 32					
		% RH	80% or less					
	Heating	°C	16 to 30					

OPTIONAL PARTS LIST

Others

Type	Refrigerant	Indoor unit								
		Cassette						Duct		
		1-way Flow	3D Flow	4-way Flow Compact Grid type / Standard type		4-way Flow Slim type / Large type	Circular Flow Slim type	Circular Flow Large type	Mini (With drain pump)	Low Static Pressure
					High Efficiency					
				AUXB 004/005/007/ 009/012/014/ 018HLAH	AUXN 009/012/014 HLAH					
		AUXV 007/009/012/ 014/018/024 GLEH	AUXS 018/024GLEH	AUXB 007/009/012/ 014/018/024 GLEH, AUXB 09/12/14/18/24 GATH		AUXD 18/24GALH, AUXA 18/24/30/34/ 36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH, AUXM 018/024GTAH	AUXK 018/024/030/ 034/036/045/054 GLEH, AUXK 030/036/045/054 GTAH	ARXK 007/009/012/ 014/018/024 GLGH	ARXB 07/09/12/14/18/ 24/30/36/45 GALH
Others	IR Receiver Unit		● UTY-TRHX			● UTY-LRHGB1	● UTY-LBHXD		● UTY-TRHX	● UTB-YWC
	Occupancy Sensor Kit						● UTY-SHZXC			
	Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.	● UTY-XSZXZ1							
	Cassette Grille	 UTG-UNGA-W UTG-UNGB-W UTG-USGA-W UTG-UNGC-W UTG-UNGA-B UTG-UGGA-W UTG-UFGE-W UTG-UFGCW	● UTG-UNGA-W (007/009/012) UTG-UNGB-W (014/018/024)	● UTG-USGA-W	● UTG-UFGE-W UTG-UFGC-W	● UTG-UGGA-W	● UTG-UGKC-W UTG-UGKA-B			
	Auto Louver Grille Kit								● UTD-GXTA-W (7/9/12/14) UTD-GXTB-W (18) UTD-GXTC-W (24)	
	Silver ion filter II									
	Long Life Filter									
	Flange									
	Drain Pump Unit									● UTZ-PX1BBA (07/09/12/14/18) UTZ-PX1NBA (24/30/36/45)
	Wide Panel	 Indoor unit 950 600 600 (mm)				● UTG-AKXA-W	● UTG-AKXA-W			
	Panel Spacer	 242 (mm) Panel spacer				● UTG-BKXA-W	● UTG-BKXA-W			
	Fresh Air Intake Kit	 For Compact Cassette For Cassette			● UTZ-VXAA	● UTZ-VXRA	● UTZ-VXRA			
	Air Outlet Shutter Plate	 For Compact Cassette For Cassette			● UTR-YDZB	● UTR-YDZK	● UTR-YDZK			
	Insulation for High Humidity	 For Compact Cassette type / Cassette type			● UTZ-KXGC	● UTZ-KXRA	● UTZ-KXRA			
	Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.								
	External Power Supply Unit		● UTZ-GXXC	● UTZ-GXXC (GLEH)			● UTZ-GXXC (GLEH)		● UTZ-GXXC	
	Pressure Sensor Kit									
	Gas Sensor kit				● UTY-SGZH(HLAH) UTY-XWZXZL	● UTY-SGZH UTY-XWZXZL				

Indoor unit											Outdoor unit			
Duct				Floor	Ceiling / Floor	Ceiling	Wall Mounted					V-III, V-III Tropical	VC-V	
Slim (With drain pump)		Medium Static Pressure	High Static Pressure				-	-	EEV external	-	-			
ARXD 004/005/007/ 009/012/014/ 018/024 HLAH				ARXP 009/012/014 HLAH					ASHA 004/005/007/ 009/012/014 HCAH	ASHE 004/005/007/ 009/012/014 HCAH				
ARXD 007/009/012/ 014/018/024 GLEH, ARXD 07/09/12/14/18/24 GATH			ARXA 024/030/ 036/045 GLEH, ARXA 24/30/36/45 GBTH	ARXC 036/045/060 GTEH, ARXC 072/090/096 GTEH	AGHA 007/009/ 012/014 GCGH	ABHA 012/014/ 018/024 GTEH	ABHA 030/036/ 045/054 GTEH	ASHA 07/09/12/14 GATH	ASHA 007/009 012/014 GCGH		ASHA 18/24GBCH, ASHA 18/24GACH	ASHA 007/009/ 030/034 GTEH	AJH***LALBH*1, AJH***LNTCH	AIG 072/090/108, 126/144/162/180 JATAH
● UTY-TRHX (GLEH) UTB-YWC (GATH/GBTH)			● UTY-TRHX											
● UTY-XSZXZ1							● UTY-XSZXZ1							
● UTD-GXTA-W (7/9/12/14) UTD-GXTB-W (18) UTD-GXTC-W (24)														
											● UTR-FA16-8 (30/34)			
		● UTD-LF25NA	● UTD-LF60KA (036/045/060)											
		● UTD-SF045T UTD-RF204				● UTD-RF204								
		● UTZ-PX1NBA				● UTR-DPB24T								
					● UTR-STA									
	● UTZ-GXXC (GLEH)		● UTZ-GXXC	● UTZ-GXXC (GCGH,GTEH)			● UTZ-GXXC			● UTZ-GXXC				
												● UTY-SPWX		
● UTY-SGZH(HLAH) UTY-XWZXZL	● UTY-SGZH UTY-XWZXZL						● UTY-SGZH(HLAH) UTY-XWZXZL							

OPTIONAL PARTS

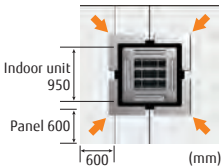
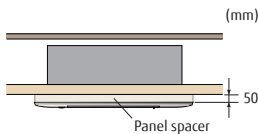
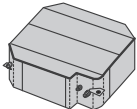



Panels

For Cassette type


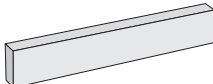

Cassette Grille UTG-UFGE-W For 4-way Flow Compact Cassette Grid type 	Cassette Grille UTG-UFGC-W For 4-way Flow Compact Cassette Standard type 	Cassette Grille UTG-UGGA-W For 4-way Flow Cassette type 
Cassette Grille UTG-UKGC-W For Circular Flow Cassette type 	Cassette Grille UTG-UKGA-B For Circular Flow Cassette type 	Cassette Grille UTG-USGA-W For 3D Flow Cassette type 
Cassette Grille UTG-UNGA-W For 1-way Flow Cassette type 	Cassette Grille UTG-UNGB-W For 1-way Flow Cassette type 	

Others

For Cassette type





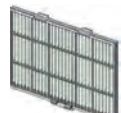


Wide Panel UTG-AKXA-W For Cassette type 	Panel Spacer UTG-BKXA-W For Cassette type 	Insulation Kit for High Humidity UTZ-KXRA For Cassette type UTZ-KXGC For Compact Cassette type 
Fresh Air Intake Kit UTZ-VXAA For Compact Cassette type UTZ-VXRA For Cassette type  <p><small>* Not applicable for VRF V-II Tropical and V-III Tropical Series</small></p>	Air Outlet Shutter Plate UTR-YDZB For Compact Cassette type Shuts the air outlet when only using as 3 blow out. 	Air Outlet Shutter Plate UTR-YDZK For Cassette type Shuts the air outlet when only using as 3 blow out. 

For Ceiling type


Drain Pump Unit UTR-DPB24T For Ceiling type 	Half Concealed Kit UTR-STA For Floor type This kit is used to half conceal floor type indoor unit into the wall. 	Silver ion filter II UTR-FA16-8 
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Others

For Duct type

Flange (Round) UTD-RF204 For Medium Static Pressure Duct type / Ceiling type 	Flange (Square) UTD-SF045T For Medium Static Pressure Duct type 	Remote Sensor Unit UTY-XSZXZ1 For All Duct type New amenity space can be offered by installing the Remote sensor. 
Long-Life Filter UTD-LF25NA For Medium Static Pressure Duct type  UTD-LF60KA For High Static Pressure Duct type 	Auto Louver Grille Kit UTD-GXTA-W (for ARXD04/07/09/12/14, ARXK04/07/09/12/14) UTD-GXTB-W (for ARXD18, ARXK18) UTD-GXTC-W (for ARXD24, ARXK24) For Slim Duct type / Mini Duct type 	Drain Pump Unit UTZ-PX1BBA UTZ-PX1NBA 




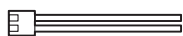

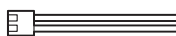





For Indoor Unit

External Power Supply Unit UTZ-GXXC 

For Outdoor Unit



Pressure Sensor Kit UTY-SPWX For VC-V, V-III, V-III Tropical 	Expansion kit NEW UTZ-JXXA 	Gas Sensor kit NEW UTY-SGZH 
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Communication system: External Connect Kit

For Indoor unit UTY-XWZXZ7  UTY-XWZXZC 	 UTY-XWZXZD  UTY-XWZXZE 	For Outdoor unit UTY-XWZXZ9  UTY-XWZXZF 
For Central Remote Controller UTY-XWZXZ7  UTY-XWZXZ8  UTY-XWZXZA 	For Touch Panel Controller UTY-XWZXZA 	For Expansion kit NEW UTY-XWZXZL 

FUNCTION LIST

External Input and Output Function/External Connect Kit/Communication Kit

Type	Refrigerant	Indoor unit												
		Cassette						Duct						
		One way flow cassette	3D Flow	4-way Flow Compact Grid type / Standard type		4-way Flow Slim type/Large type	Circular Flow Slim type	Circular Flow Large type	Mini (With drain pump)	Low Static Pressure	Slim (With drain pump)		Medium Static Pressure	
					High Efficiency							High Efficiency		
				AUXB 004/005/007/ 009/012/014/ 018HLAH	AUXN 009/012/014 HLAH						ARXD 004/005/007/ 009/012/014/ 018/024 HLAH	ARXP 009/012/014 HLAH		
		AUXV 007/009/012/ 014/018/024 GLEH	AUXS 018/024GLEH	AUXB 007/009/012/ 014/018/024 GLEH, AUXB 09/12/14/18/24 GATH		AUXD 18/24GALH, AUXA 18/24/30/34/ 36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH, AUXM 018/024GTAH	AUXK 018/024/030/ 034/036/045/054 GLEH, AUXK 030/036/045/054 GTAH	ARXK 007/009/012/ 014/018/024 GLGH	ARXB 07/09/12/14/18/ 24/30/36/45 GALH	ARXD 007/009/012/ 014/018/024 GLEH, ARXD 07/09/12/ 14/18/24 GATH	ARXA 024/030/ 036/045 GLEH, ARXA 24/30/36/45 GBTH		
Input	Operation / Stop	●UTY-XWZXZD												
	All On / All Off													
	Forced Stop	●UTY-XWZXZD												
	Emergency Stop	●UTY-XWZXZD												
	Forced Thermostat off	●UTY-XWZXZE ○UTY-XWZXZ7												
	Power Usage Information from Electricity Meter													
Output	Operation Status	●UTY-XWZXZC												
	Error Status	●UTY-XWZXZC												
	Indoor Unit Fun Operation Status	●UTY-XWZXZC												
	Auxiliary Heater Output								●UTY-XWZXZC					
	Base Heater													
Other	Expansion kit			●UTZ-JXXA (HLAH)							●UTZ-JXXA (HLAH)			

*1: Touch Panel Controller has these functions for Dry contact and Apply voltage, however, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

*2: Please refer to the detail page of each series for the ***** in the model name.











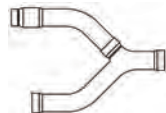

Duct High Static Pressure	Indoor unit								Outdoor unit					Controller	
	Floor	Ceiling / Floor	Ceiling	Wall Mounted					J-IIIIL	J-III, J-III Tropical	J-IIIS	V-III, V-III Tropical	VC-V	Central Remote Controller	Touch Panel Controller
				-	-	EEV external	-	-							
					ASHA 004/005/007/ 009/012/014 HCAH	ASHE 004/005/007/ 009/012/014 HCAH									
ARXC 036/045/ 060/072/ 090/096 GTEH	AGHA 007/009/ 012/014 GCGH	ABHA 012/014/ 018/024 GTEH	ABHA 030/036/ 045/054 GTEH	ASHA 07/09/12/14 GATH	ASHA 007/009/ 012/014 GCGH		ASHA 18/24GBCH, ASHA 18/24GACH	ASHA 007/009/ 030/034 GTEH	AJH 072/090/108/ 126/144/162 LELAH	AJH***LBLAH*2 AJH***LELAH, AJH***LBTAHN AJH***LETAHN	AJH 040/045/054 LCLAH	AJH***LALBH*2, AJH***LNTCH	AJG 072/090/108/ 126/144/162/180 JATAH	UTY-DCCGZ2	UTY-DTCGZ1
●UTY-XWZXZD															
														●UTY- XWZXZ7 ○UTY- XWZXZ8	●*2 ○*2
●UTY-XWZXZD															
●UTY-XWZXZD														●UTY- XWZXZ7 ○UTY- XWZXZ8	●*2 ○*2
●UTY-XWZXZE ○UTY-XWZXZ7															
									●UTY-XWZXZF						●*2 ○*2
●UTY-XWZXZC														○UTY-XWZXZA	
●UTY-XWZXZC														○UTY-XWZXZA	
●UTY-XWZXZC															
									●UTY-XWZXZ9			●UTY- XWZXZ9			
					●UTZ-JXXA (HLAH)										

● : Dry Contact ○ : Apply Voltage





SEPARATION TUBE etc.

Connection Units



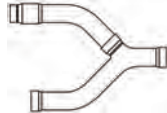

Separation Tube

<p>UTP-AX054A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTP-AX090A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTP-AX180A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 
<p>UTP-AX567A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTP-LX180A for DX Kit</p>  	<p>NEW UTP-AX792B</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 

Header

<p>UTR-H0906L / UTR-H1806L</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTR-H0908L / UTR-H1808L</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	
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Outdoor Unit Branch Kit

<p>UTP-CX567A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>NEW UTP-CX792B</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	
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Others

For Outdoor Unit

<p>Shut off valve kit</p> <p>NEW UTP-GX027A</p> <p>for R32 VRF indoor unit</p> 	<p>Shut off valve kit</p> <p>NEW UTP-GX060A</p> <p>for R32 VRF indoor unit</p> 	
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Specifications

Separation tube

Model name		UTP-AX054A	UTP-AX090A	UTP-AX180A	UTP-AX567A	UTP-AX792B
Total cooling capacity of indoor unit	kW	19.6 or less	28.0 or less	28.1 to 56.0	56.1 to 218.3	218.4 or more

Header

Model name	3-6 Branches	UTR-H0906L	UTR-H1806L
	3-8 Branches	UTR-H0908L	UTR-H1808L
Total cooling capacity of indoor unit	kW	28.0 or less	28.1 to 56.0

Outdoor unit branch kit

Model name		UTP-CX567A (for V-III / V-III Tropical)	UTP-CX792B (for VC-V)
	2 outdoor units	1	1
Number of outdoor units	3 outdoor units	2	2
	4 outdoor units	-	3

Shut off valve kit

Model name		UTP-GX027A	UTP-GX060A
Power source	V/Ø/Hz	230/1/50	230/1/50
Input power	W	24	24
Number of branches		1	1
Maximum number of connectable Expansion kit	kW	4	4
Maximum capacity of connectable indoor units (Q)	kW	$Q \leq 8.0$	$Q \leq 18.0$
Maximum capacity of Connectable Indoor Units per Branch (Q)	kW	$Q \leq 8.0$	$Q \leq 18.0$
Dimensions (H × W × D)	mm	250 × 540 × 267	250 × 540 × 267

SUPPORT

Our know-how supports you not only during the product release but also from guiding implementation to product maintenance.

Support

HVAC system design support tool

Quick service & maintenance

Service tool

Web monitoring tool

Category	Information Material											Tool	
	Product Sales Training Material	Product Technical Training Material	Product news	Brochures	Feature Promotion Movie	Operating Manual	Design & Technical Manual	Certificate Data	2D CAD Data	3D CAD (Revit) Data	Installation Manual	Service Manual	Design Simulator (Room air conditioner, Packaged air conditioner, VRF)
													Mobile Technician
													Service Tool / Web Monitoring Tool
													CFD Simulation
													Design Simulator (Room air conditioner, Packaged air conditioner, VRF)
Product Training	●	●											
Product Information Seek			●	●	●	●	●						
Technical Information Seek						●	●						
Model Selection						●						●	
Design						●			●	●			
Verification													●
Installation						●					●		
After sales and Service												●	●

Support

Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities.

We provide a wide range of support to maintain high quality from design to installation.

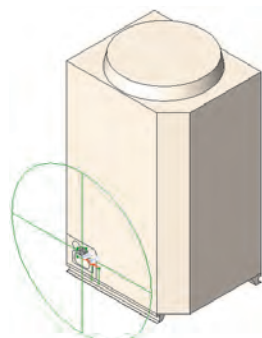


Technical information

We provide equipment selection software that facilitates the design of air conditioning systems by providing performance data for the units and estimation for model selection.

Features

- Design & Technical manuals
- Model selection & estimation
- Certification data
- 2D/3D CAD data



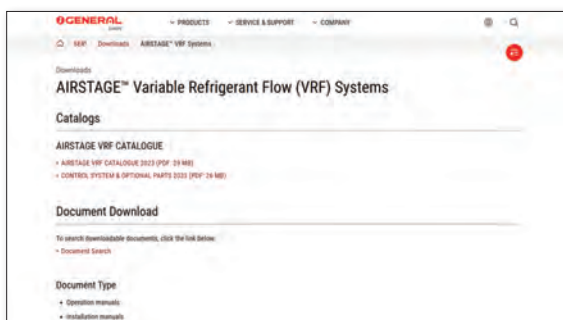
2D/3D CAD data

Product information

Information on new models is provided in the form of documents and movies in a timely manner for release, readily downloadable from the private section of our website. Contact your Fujitsu General representative for access information.

Features

- Product news
- Brochures & manuals
- Promotional movies



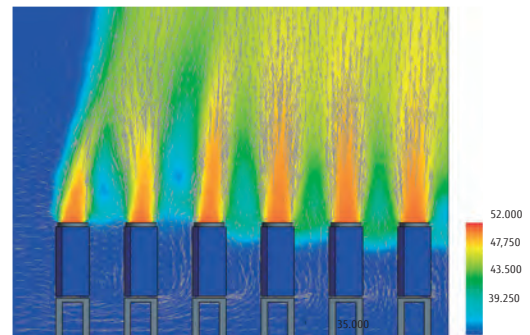
<https://www.fujitsu-general.com/g-eu/support/downloads/vrf/>

Technical support

Technical support is offered at every stage, from design through to installation, to assist in optimizing air conditioning solutions.

Features

- CFD simulation
- Guidelines
- Commissioning support



CFD simulation



Commissioning support

HVAC system design support tool

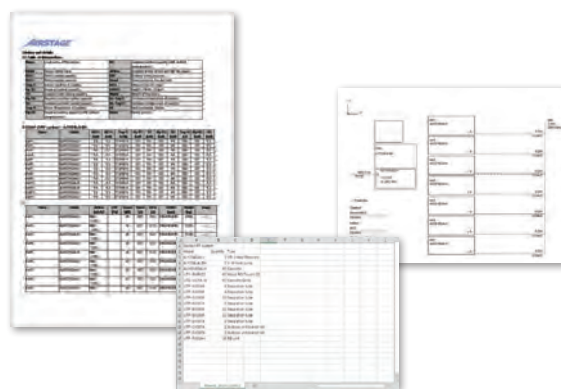
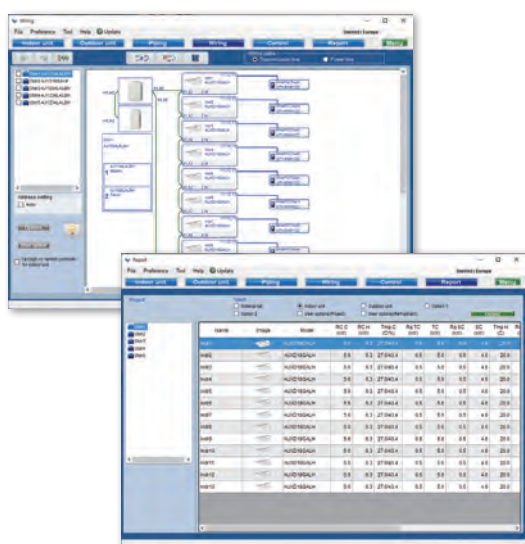
Put the charts and pens away and design your projects on your computer with ease using the Design Simulator.

Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program's built-in features.

Once your project is designed take advantage of the Export functions to easily get materials lists, product specifications, refrigerant calculations and more - it'll even export to Word, Excel, or Acrobat formats, and group the relevant CAD data for your project.



Design simulator



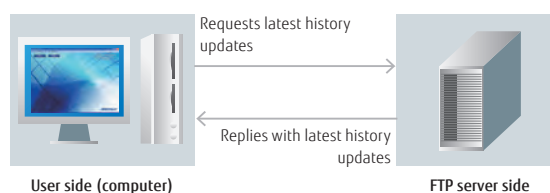
Outputs in the format that matches the application

You can export your project information in a number of industry standard file formats.

- Word format (rtf) (doc)
- Excel format (csv)
- Acrobat format (pdf)
- 2D CAD data (DXF)

Automatically create model selection information

- The required performance, type, and temperature conditions for each indoor unit are entered and then dragged and dropped onto the outdoor unit to automatically set each unit.
- Creates piping and wiring diagrams automatically to facilitate branching, grouping, and option settings.
- The additional refrigerant charging is automatically calculated when the pipe length is entered.
- Easy configuration of remote controller groups, central controller, and converters.
- The equipment list including the equipment information is created automatically.



Update your Design simulator

The database can be updated easily online with the AutoUpdate function using FTP.

Quick service & maintenance

If trouble should occur in a unit or system, abundant support tools such as trouble code display at the product, Service Tool that allows checking of the detailed status of the entire system, and remote monitoring tool that uses the internet, etc. support quick service and maintenance anywhere and at any time.



Easy maintenance & monitoring

Designed for easy maintenance

The operating status of the air conditioner and detailed trouble conditions are displayed on the 7-segment indicator lamp on the outdoor unit printed circuit board (PCB) and on the screen of the remote controller.

Check the status of the unit quickly for a prompt response.

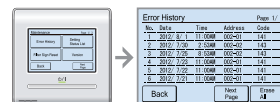
- Display the operation mode at the time.
- Discharge temperature and pressure
- Compressor operation status
- "Address/Type/Number" of the outdoor unit
- Error code

7-segment indicator lamp



Wired remote controller (with touch panel)

Error status/Error history



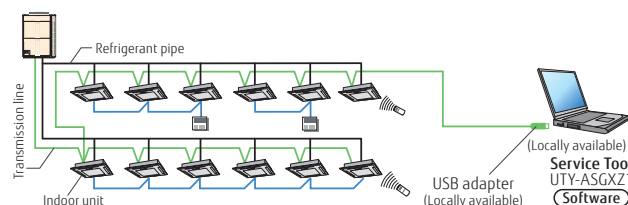
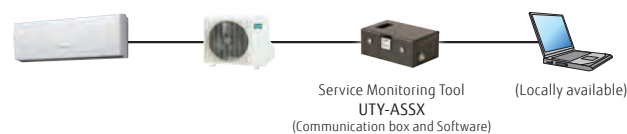
System number
001: Controller
002: Indoor unit
Error code
Unit number

Error diagnosis by Service tool

Connect Service tool to check the status details of units, from single split to VRF, on a computer screen.

Check the errors quickly for prompt countermeasures.

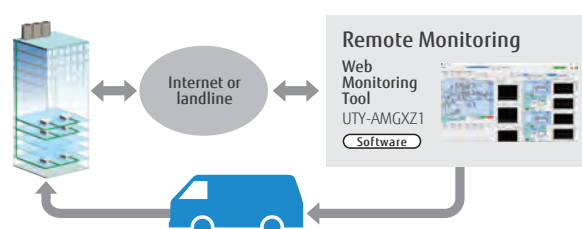
- Operating status/control
- Monitoring operating conditions
- Monitoring sensor data
- Indicating trend graphs
- Error history
- Indicating refrigerant circuit diagrams (for VRF)



Remote monitoring

VRF system operating status and trouble status details can be monitored remotely at any time via the internet.

Prompt coordination is available with service personnel.

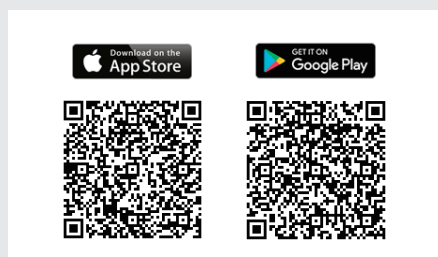




Mobile troubleshooting App for iOS and Android™ devices

We will release an App for troubleshooting tools for iPhone, iPod touch and other Apple devices, and Android products for Fujitsu General air conditioners (Room air conditioner/ Packaged air conditioners VRF and ATW, "AIRSTAGE Mobile", and R32 calculation of allowable refrigerant capacity)

Use Error Code Check, Troubleshooting, and Sensor Check to understand the status of your air conditioner.



Service monitoring tool for Single split, Multi-split & Air to water



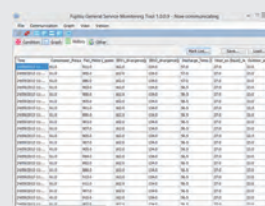
- A quick overview of the temperature sensor readings and the electronic expansion valves (EEVs), fans, compressors and other control components
- It is not always easy to read the temperature sensor and know the status of the control components. So let the Service monitoring tool judge them.
- Visualizes protected operations
- Troubleshoots intermittent problems effectively
- Provides proof of normal operation to customers during periodical maintenance



Actual operating conditions



Graphs



Operational histories

	UTY-ASSX
Dimensions (H × W × D) (mm)	60 × 160 × 160
Weight (g)	500

Service tool

UTY-ASGXZ1

Extensive monitoring and analysis functions that make installation and maintenance easier

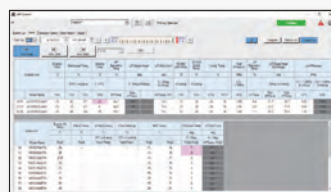
- The operation status of the system can be monitored and analyzed to detect any malfunctions.
- Data on the operation status of the system can be stored on a computer to allow for remote access.
- Up to 400 indoor units in a single VRF network system can be controlled and monitored for a large building or hotel.
- This software can be connected to any point of transmission line with a USB adapter (locally available).

* Saved data can be displayed offline. Note that the data saved by the following software applications cannot be displayed.

- UTR-YSTB/UTR-YSTC (Service tool)
- UTR-YMSA (Web monitoring tool)

Automatic operation check for refrigeration cycles

Once installed, the Service tool automatically checks for refrigeration cycles. The self-diagnosis function determines whether each sensor value is normal, which reduces the need for manual checks. The result of a diagnosis can be provided in a report.



Use the result of a self-diagnosis only as a guide and use your own judgment to make a final decision.

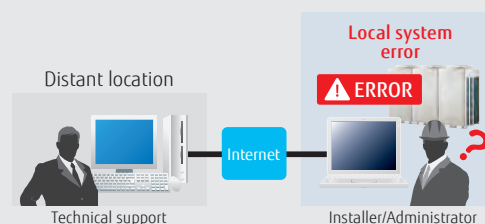
These sensor values are checked automatically:

- ✓ the discharge temperature is normal, "OK"
 - ✓ the super heat volume is normal, "OK"
 - ✓ the high pressure pipe value is normal, "OK"
 - ✓ the low pressure pipe value is normal, "OK"
- And the values for other items will also be diagnosed.



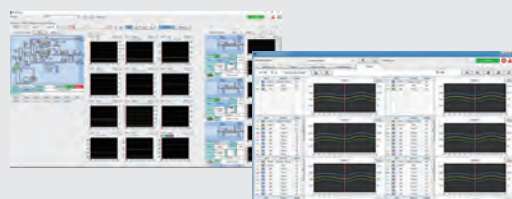
Remote technical support and maintenance

On-site check screen can be shared between on-site staff and a service technician in a remote location. When a service technician visits the site for troubleshooting, the system's operation status can be shared in real time with a remote service center for assistance. On-site staff can have an online chat with a remote service center to get further assistance.



Trend charts

Previous-generation application could display only 3 sets of data from sensors. However, the current generation of the service tool displays multiple charts simultaneously so that refrigeration cycles can be monitored and checked in greater detail.



Computer requirements

UTY-ASGXZ1	
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	<ul style="list-style-type: none"> • 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Screen resolution	1366 × 768 pixels or higher
Interface	• USB port for U10 USB Network interface and software protection key
Software	Internet Explorer® 11 or Microsoft Edge

Packing list

Name	Quantity	Application
White-USB-key (Software protection key)	1	Software protection key to be connected to a USB port on a Service tool-installed computer. This software runs only on a computer with WibuKey.

- Computer requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model name: 75010R) (Required for each VRF Network)

Web monitoring tool

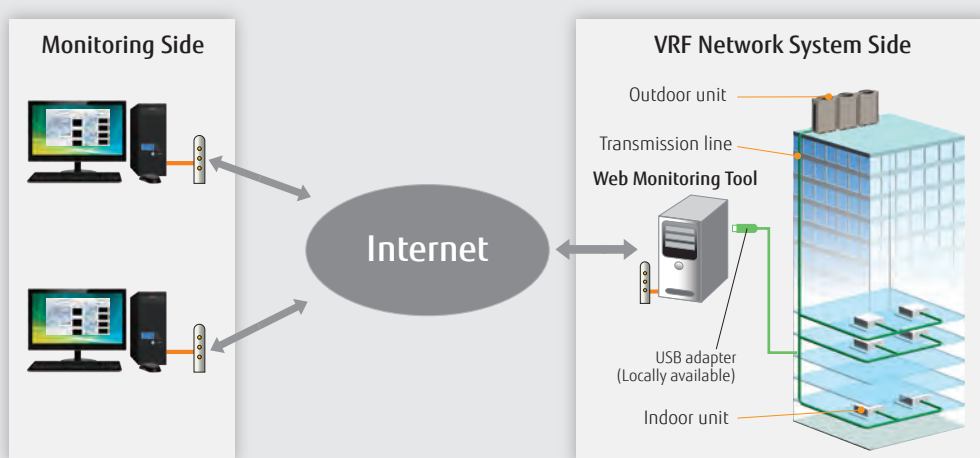
UTY-AMGXZ1

Features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during a periodical system check.
- An error notification is automatically transmitted to several locations via the internet*1.
- Requires either a dedicated internet connection or landline to operate.
- The occurrence of an error can be confirmed through an error alert and equipment status information obtained from a remote location.
- Monitoring data can be downloaded in a remote location. These data can be accessed and displayed even when the service tool is in offline mode.
- Can be viewed on the monitoring computer's Web browser without installing any special software.

*1: Internet e-mail access required.

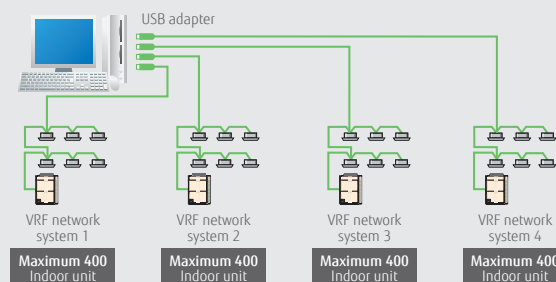
Web Monitoring System



Supporting up to 4 VRF network systems

Up to 4 USB adapters can be connected to a computer, enabling the monitoring of up to 1,600 indoor units.

Suitable for use in a large building or hotel.



Computer requirements

	UTY-AMGXZ1
Operating system	<ul style="list-style-type: none">• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1• Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)• Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	<ul style="list-style-type: none">• 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])• 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Screen resolution	1366 × 768 pixels or higher
Interface	<ul style="list-style-type: none">• USB ports (one for U10 USB Network interface and up to 4 ports for software protection keys)• Interface for remote connection:<ul style="list-style-type: none">- Landline: Modem is required.- Internet using LAN: Ethernet port is required.
Software	Internet Explorer® 11 or Microsoft Edge

Packing list

Name	Quantity	Application
White-USB-key (Software protection key)	1	Software protection key to be connected to a USB port on a Service tool-installed computer. This software runs only on a computer with WibuKey.

- Computer requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model name: 75010R) (Required for each VRF Network)

Fujitsu General (Thailand) Co., Ltd.



ISO 9001 Certification number: 01 100 075229
ISO 14001 Certification number: 01 104 9245

Fujitsu General (Shanghai) Co., Ltd.



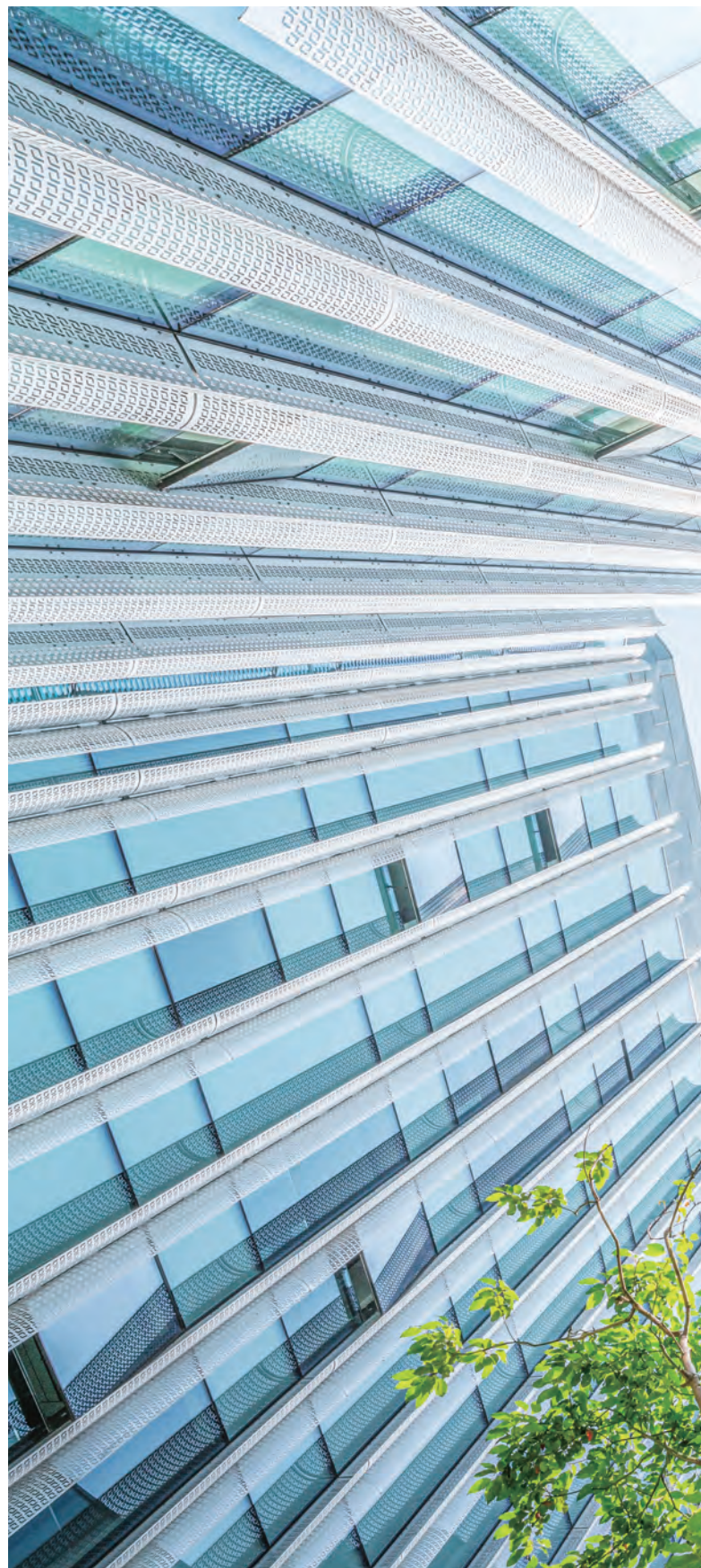
ISO 9001 Certification number: 01 100 79269
ISO 14001 Certification number: CNB312244-UK

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



ISO 9001 Certification number: 15917020073R5M
ISO 14001 Certification number: 15918E20021R5M

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