

FUJITSU

Refrigerant
R410A
INVERTER



AIRSTAGE™

VRF

CATALOGUE

Variable
Refrigerant
Flow System



SUPPORT

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



003 AIRSTAGE™ ALL TYPE LINEUP

007 AIRSTAGE™ COMMON FEATURES

014 AIRSTAGE™ OUTDOOR UNITS

- AIRSTAGE™ V-III Heat Pump Type
- AIRSTAGE™ V-III TROPICAL Heat Pump Type
- AIRSTAGE™ J-III Heat Pump Type

031 AIRSTAGE™ INDOOR UNITS

037 CONTROLLER

049 ADAPTOR & CONVERTOR

055 SERVICE & MAINTENANCE

065 OPTIONAL PARTS FOR VRF

AIRSTAGE™ VRF Systems can be designed to create an air conditioning solution to suit most buildings requirements.

AIRSTAGE™ VRF Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.



Fujitsu General provides multi air conditioning systems for buildings AIRSTAGE Series matched to the size and application of the property.

AIRSTAGE™ V-III

8HP-54HP
39 models

Heat Pump type for heating or cooling operation

- Systems for large offices, hotels, and large composite facilities
- Extensive lineup from 8HP to 54HP increment connectable indoor unit capacity ratio up to 150%
- Space saving and Energy efficiency combinations 39 models lineup

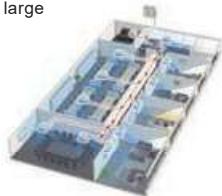


AIRSTAGE™ V-III
TROPICAL series

8HP-54HP
39 models

Heat Pump type for heating or cooling operation

- Systems for large offices, hotels, and large composite facilities
- Extensive lineup from 8HP to 54HP increment connectable indoor unit capacity ratio up to 130%
- Space saving and Energy efficiency combinations 39 models lineup



Outdoor units range

Refrigerant for all models is R410A.

HP	4	5	6	8	10	12	14	16	18*	20	22	24	26	28*	
kW class	12.1	14.0	15.5	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5	78.5	
AIRSTAGE™ V-III Heat Pump	Space saving				AJY072LA*BH	AJY090LA*BH	AJY108LA*BH	AJY126LA*BH	AJY144LA*BH	AJY162LA*BH	AJY180LA*BH	AJY198LA*BH	AJY216LA*BH	AJY234LA*BH	AJY252LA*BH
	High Efficiency								AJY144LA*BHH	AJY162LA*BHH	AJY180LA*BHH		AJY216LN*BHH	AJY234LN*BHH	AJY252LN*BHH
NEW AIRSTAGE™ V-III TROPICAL series Heat Pump	Space saving				AJY072LN*BH	AJY090LN*BH	AJY108LN*BH	AJY126LN*BH	AJY144LN*BH	AJY162LN*BH	AJY180LN*BH	AJY198LN*BH	AJY216LN*BH	AJY234LN*BH	AJY252LN*BH
	High Efficiency								AJY144LN*BHH	AJY162LN*BHH	AJY180LN*BHH		AJY216LN*BHH	AJY234LN*BHH	AJY252LN*BHH
NEW AIRSTAGE™ J-III Heat Pump	High Efficiency (Single phase)			AJY040LBLAH	AJY045LBLAH	AJY054LBLAH									
	High Efficiency (3 phase)			AJY040LELAH	AJY045LELAH	AJY050LELAH									

AIRSTAGE J-III

4HP, 5HP, 6HP
6 models

Heat Pump type for heating or cooling operation

- Systems for large homes to medium sized offices, shops
- Small capacity range from 4HP to 6HP connectable indoor unit capacity ratio up to 130%
- Energy efficiency 3 models lineup



28	30	32	34*	34	36*	36	38*	38	40	42	44*	46*	48	50*	52*	54*	
80.0	85.0	90.0	95.0	96.0	100.5	101.0	107.0	108.0	112.0	118.5	123.5	130.0	135.0	139.0	143.0	147.0	
 AJY270LA*BH  AJY288LA*BH  AJY306LA*BH		 AJY324LA*BH		 AJY342LA*BH		 AJY360LA*BH  AJY378LA*BH  AJY396LA*BH  AJY414LA*BH  AJY432LA*BH  AJY450LA*BH  AJY468LA*BH  AJY486LA*BH											
 AJY270LA*BHH  AJY288LA*BHH  AJY306LA*BHH		 AJY324LA*BHH		 AJY342LA*BHH		 AJY360LA*BHH  AJY378LA*BHH  AJY396LA*BHH  AJY414LA*BHH											
 AJY252LN*BHA  AJY270LN*BH  AJY288LN*BH  AJY306LN*BH		 AJY324LN*BHA  AJY342LN*BHA		 AJY360LN*BH  AJY378LN*BH  AJY396LN*BH  AJY414LN*BH  AJY432LN*BH <td></td> <td> AJY450LN*BH  AJY468LN*BH  AJY486LN*BH</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		 AJY450LN*BH  AJY468LN*BH  AJY486LN*BH											
 AJY270LN*BHH  AJY288LN*BHH  AJY306LN*BHH		 AJY324LN*BHH		 AJY342LN*BHH		 AJY360LN*BHH  AJY378LN*BHH  AJY396LN*BHH  AJY414LN*BHH											

AJY__LA* : AJY__LAL, AJY__LAT

AJY__LN* : AJY__LNL, AJY__LNT

*: Not available to sale in some regions

INVERTER

AIRSTAGE™ SERIES ALL TYPE LINEUP

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs. 12 types, 84 models, Capacity range from 2.2 kW to 28.0 kW

Indoor units range

Capacity range (kW)		2.2	2.8	3.6	4.5	5.6	7.1
Model code		7	9	12	14	18	24
Cassette	Compact Cassette						
	Slim type						
	Cassette						
Duct	Large type						
	NEW Mini Duct (With drain pump)						
	NEW Mini Duct (Without drain pump)						
	Slim Duct						
	Low Static Pressure Duct						
	Medium Static Pressure Duct						
Floor	High Static Pressure Duct						
	Floor (Same as Ceiling models)						
Ceiling	Slim Concealed Floor (Same as Slim Duct models)						
	Ceiling						
Wall Mounted	Wall Mounted						
	Wall Mounted (EEV external)						With this model, connection of EV kit is necessary.

Energy Recovery Ventilator range

Airflow rate (m³/h)	250	350	500	800	1000
Model code	025	035	050	080	100
Energy Recovery Ventilator					

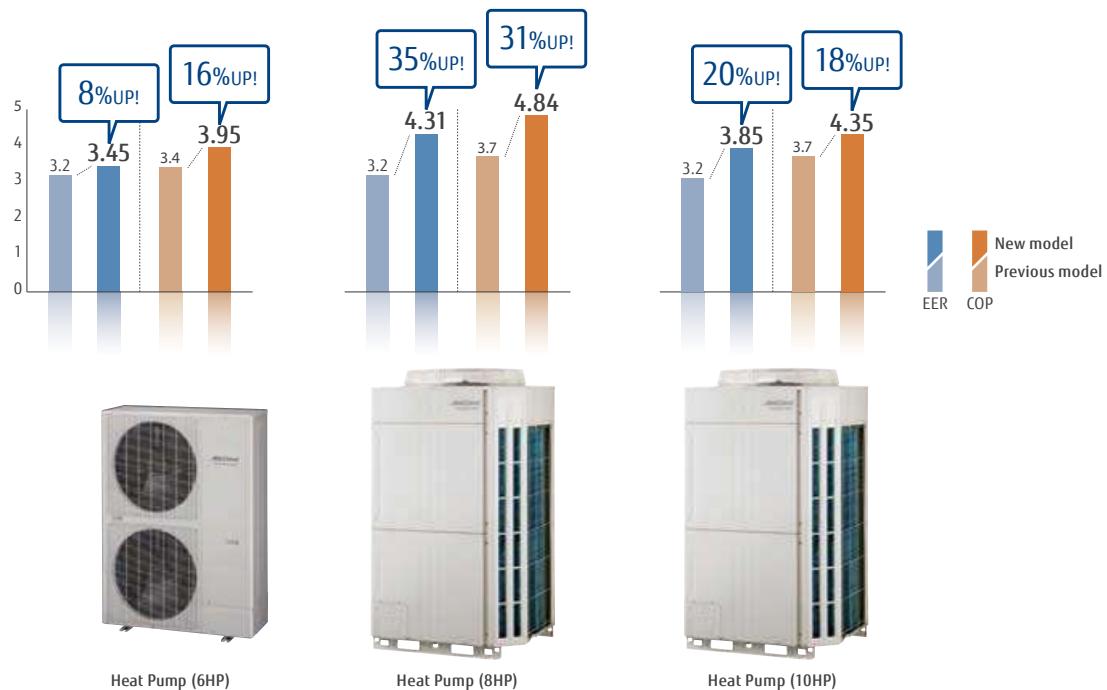
*1: ARXC60/72/90/96G cannot be connected to J-III series.

9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
30	34	36	45	54	60	72	90	96

Outdoor Air Unit range

Airflow rate (m³/h)	1080	1680	2100
Model code	054	072	096
Outdoor Air Unit			

High Energy Efficiency

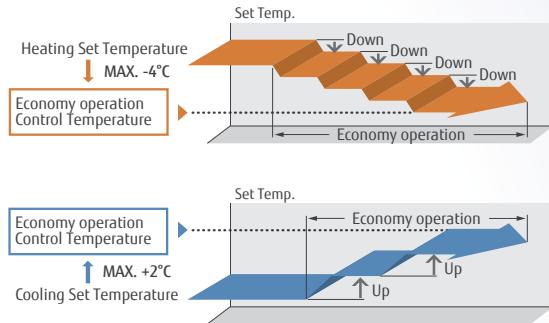


Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger

Energy Saving Function

Economy operation

Economy operation can be set by remote controller. The temperature setting is offset automatically over a certain period of time.



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

- 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.

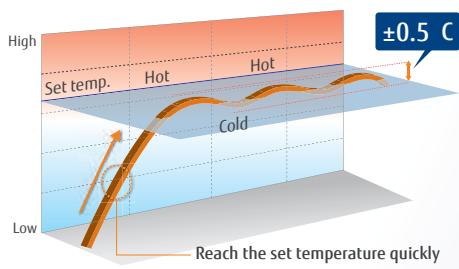
Capacity save operation

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

More Comfort

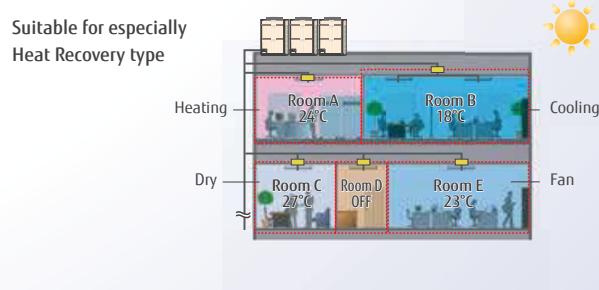
Precision refrigerant flow control

Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of $\pm 0.5^{\circ}\text{C}$.



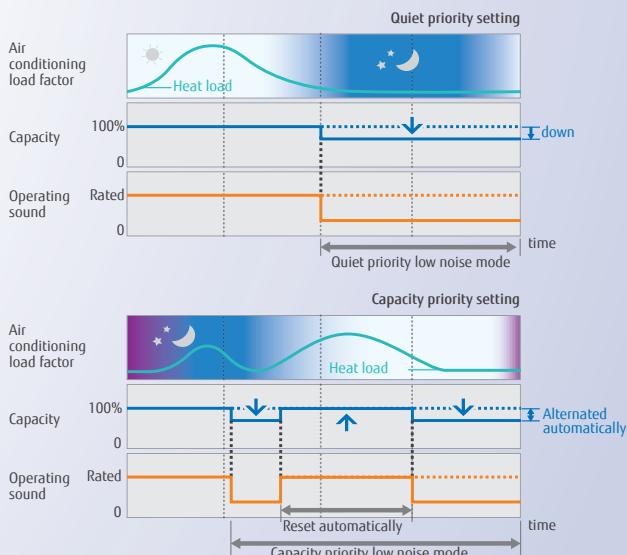
Auto changeover function

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



Quiet operation

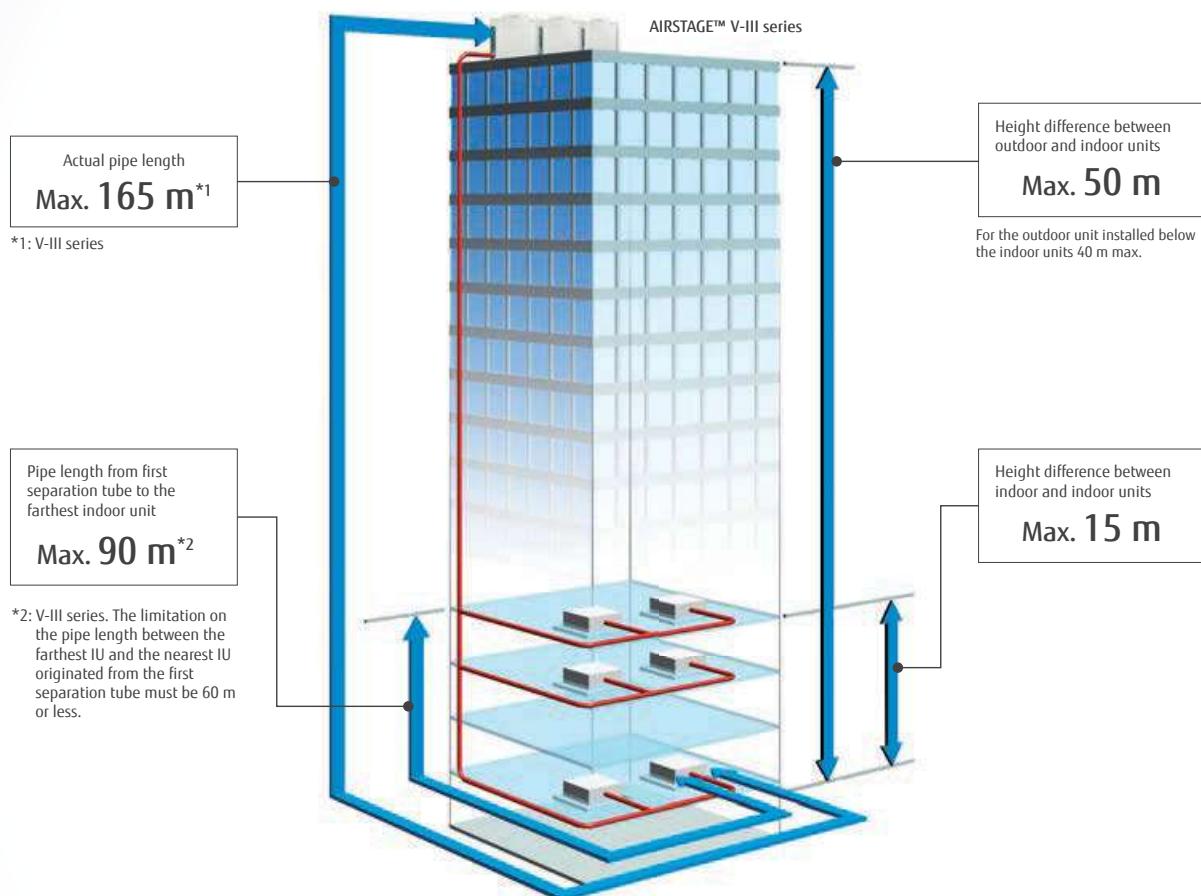
Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.



Design Flexibility

Overall piping length Max. 1,000 m

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



High static pressure

The outdoor unit can have a condenser hood easily connected with a static pressure of 82 Pa^{*3} standard. This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge with an external static pressure of 82 Pa^{*3}.

82 Pa^{*3}

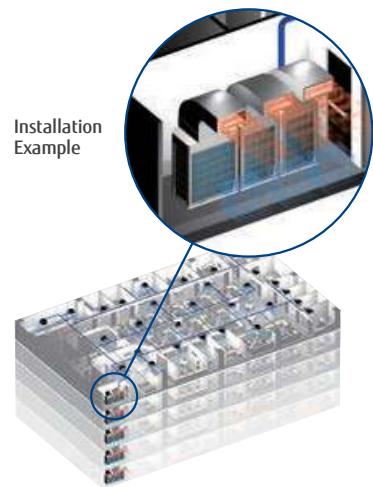
Previous model



V-III series



Installation Example



Large diameter fan and DC motor has been utilized allowing an external static pressure of 82 Pa^{*3}. This is approximately 2.6 times greater than the previous model.

*3: For V-III series.

High capacity connection

8HP-54HP

AIRSTAGE™ V-III series and V-III tropical series
Heat Pump type

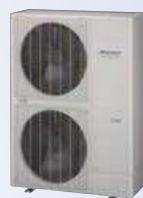


Connectable indoor unit capacity range
50 % to 150*² %

Connectable indoor unit number
up to 64

4HP-6HP

AIRSTAGE™ J-III series
Heat Pump type

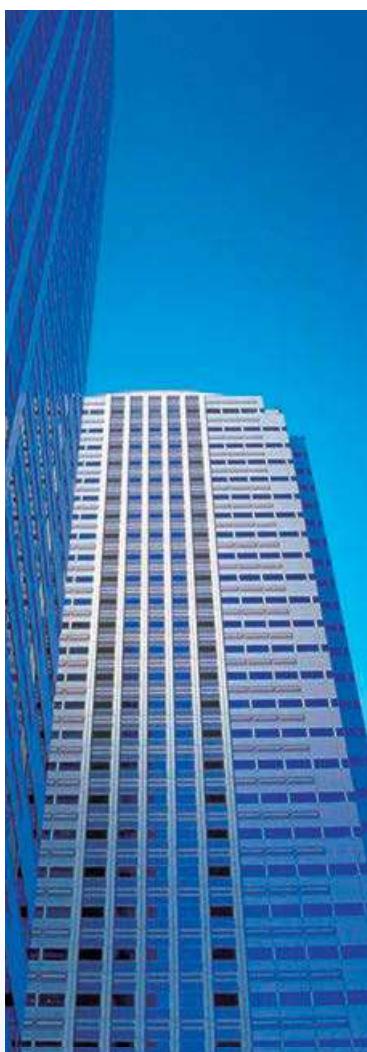


Connectable indoor unit capacity range
50*¹ % to 150 %

Connectable indoor unit number
up to 13

*1. Only 4HP is 46%

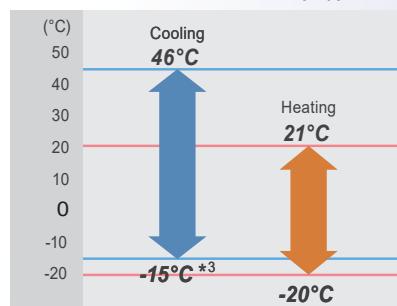
*2. Max. capacities in the combinations including the 18HP outdoor unit fall below 150%.



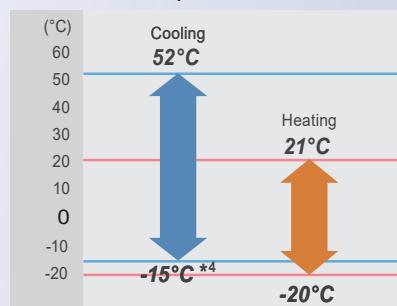
Wide operating range

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

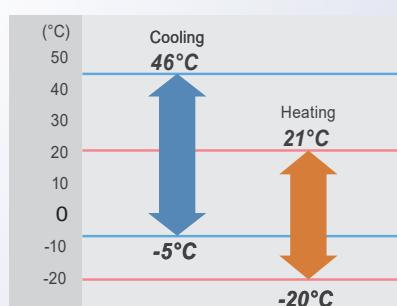
AIRSTAGE™ V-III series Heat Pump type



AIRSTAGE™ V-III tropical series and



AIRSTAGE™ J-III



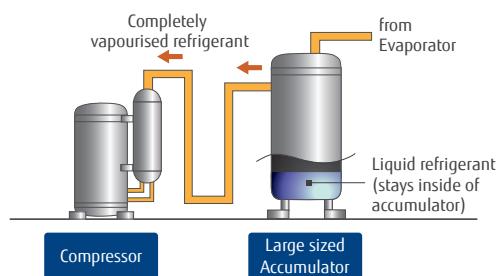
*3. Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

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

High Reliability

Liquid flow back protection

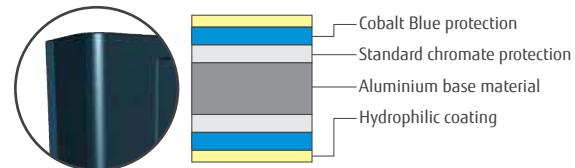
By adopting a large sized accumulator, not completely vapourised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.



Adoption of blue fin heat exchanger

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

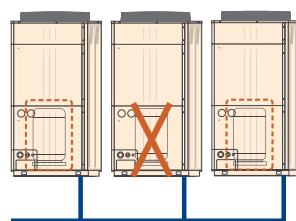
Blue fin heat exchanger



Backup operation

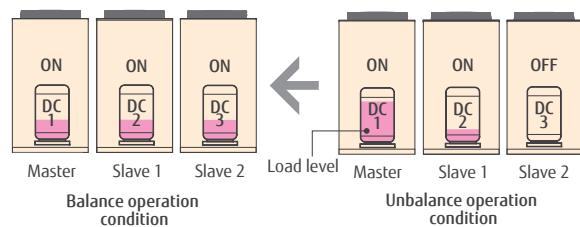
If one compressor fails, backup operation will be performed by the remaining compressors.*1

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



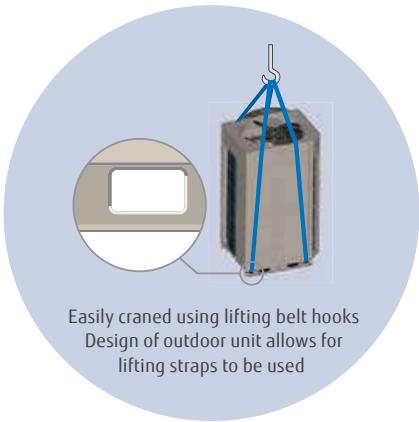
Advanced refrigerant control

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



Easy Installation

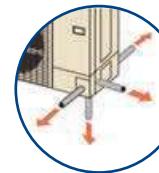
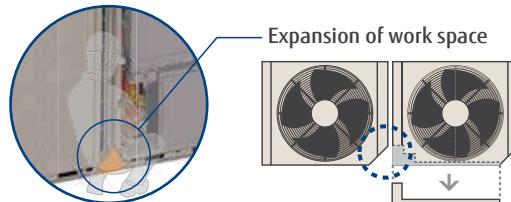
Easily transported



Easy access

By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design.

For multiple installations, work is performed easily and efficiently even in a narrow space.

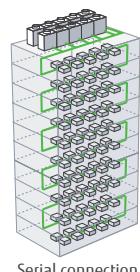
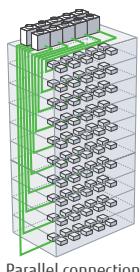


Simple wiring work

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

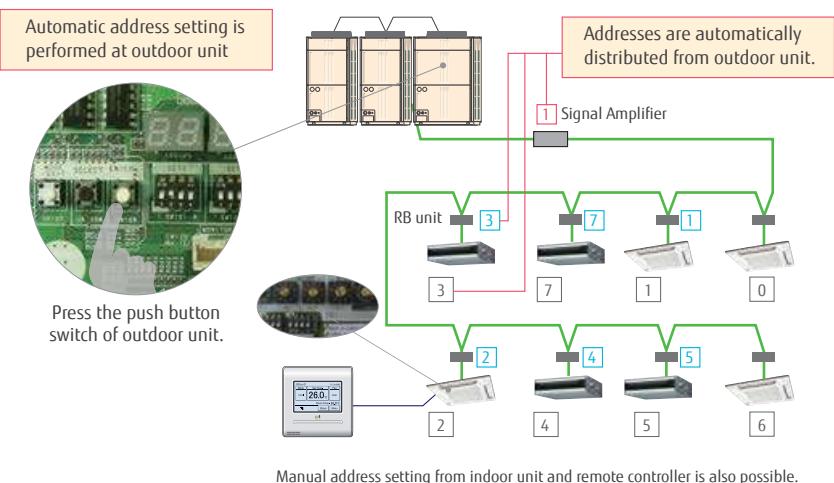
Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.

Up to maximum length 3,600 m



Automatic address setting

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



Easy Service & Maintenance

Design for easy maintenance

Easy to read 7-segment LED :

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

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

Movable PCB panel

Easier for maintenance work behind the PCB



Error and quantity annunciation



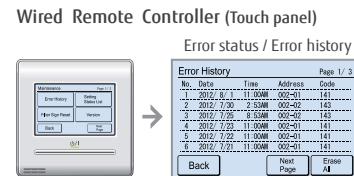
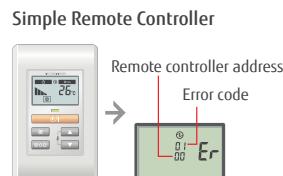
Error code



Abnormal indoor unit address

• Error status can be checked easily by outdoor unit display

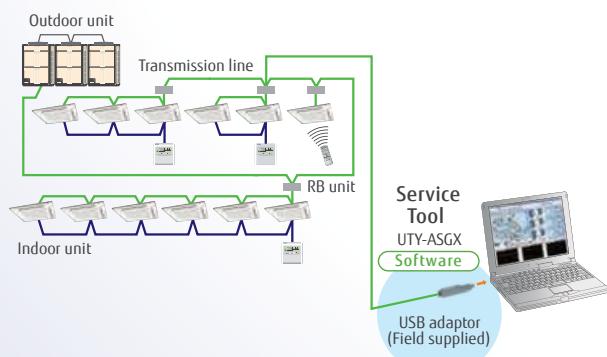
Error status can be checked easily via the indoor unit wired controller
An error code is displayed on a liquid crystal screen.



Error diagnosis by Service Tool

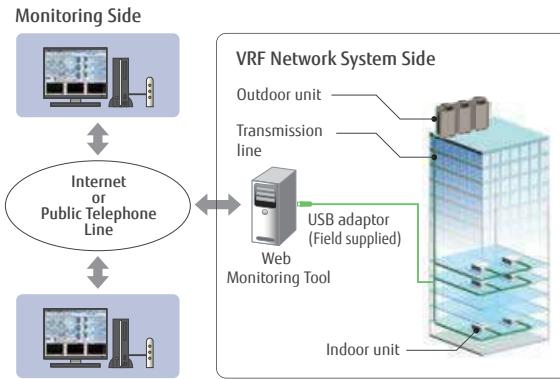
Connection to Service Tool

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



Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation.



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



**AIRSTAGE™
SERIES**
OUTDOOR UNITS

015 Heat Pump Type
AIRSTAGE V-III



021 Heat Pump Type
AIRSTAGE V-III
TROPICAL series



027 Heat Pump Type
AIRSTAGE J-III



HEAT PUMP TYPE

AIRSTAGE™ V-III series

Smart and cutting edge design
 Extensive lineup from 8HP to 54HP in 2HP increment
 Connectable indoor unit capacity ratio up to 150%

System Outline



Excellent energy saving

Heat pump inverter type realizes the highly energy saving air conditioning for individual cooling and heating operation by all inverter technology for seasonal efficiency.



High design flexibility for various building air conditioning

High design flexibility meets the various needs of high-rise building air conditioning such as outdoor unit roof top concentrated installation and each floor installation by large capacity combination, sufficient connection capacity, and high static pressure design.



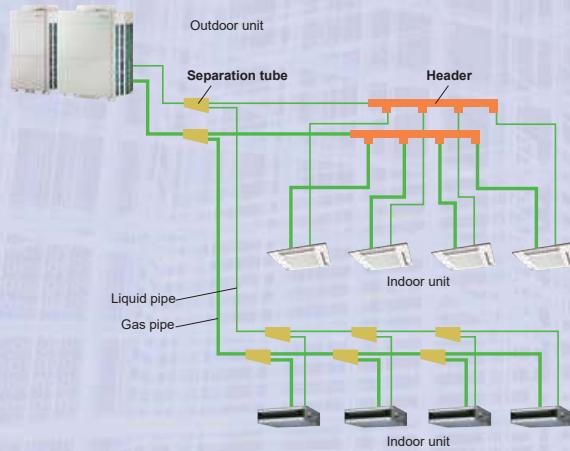
Easy installation and maintenance

The flexible communication method and piping connections makes installation and maintenance easy even for large systems.



System configuration example

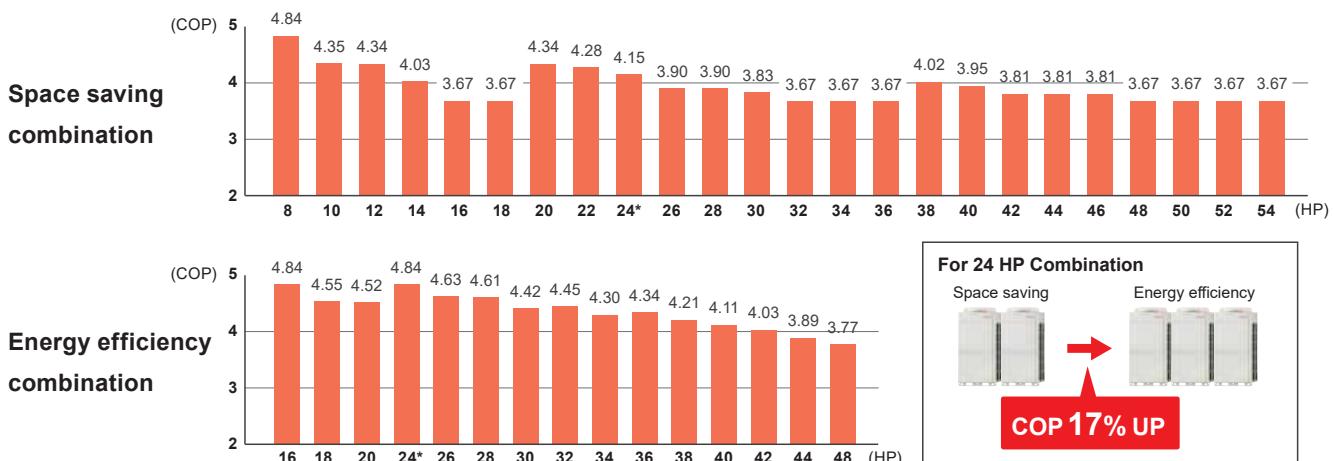
- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
- Connection of multiple indoor units using separation tubes and headers.



Features

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.



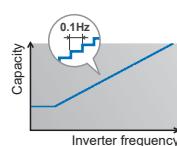
Sine-wave DC inverter control

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



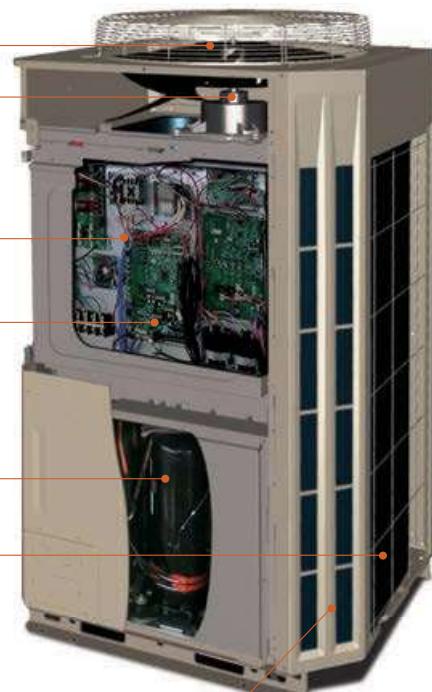
High efficient & Large capacity ALL DC inverter compressor

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.

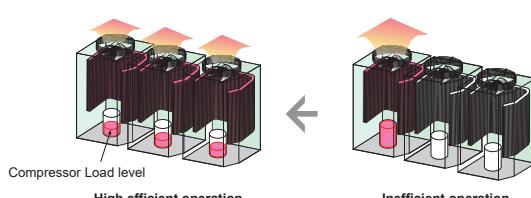


Front intake port (corner cut air inhaling structure)

Advanced energy saving control

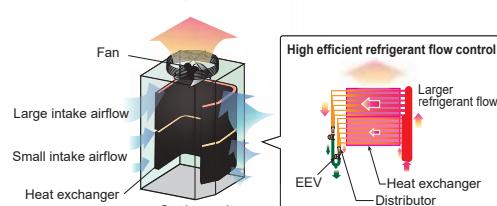
Multiple outdoor operation control

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.



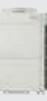
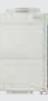
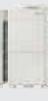
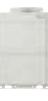
INVERTER

AIRSTAGE V-III

Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combination

22.4kW (8HP)  AJY072LA*BH UNIT : AJY072LA*BH	28.0kW (10HP)  AJY090LA*BH UNIT : AJY090LA*BH	33.5kW (12HP)  AJY108LA*BH UNIT : AJY108LA*BH	40.0kW (14HP)  AJY126LA*BH UNIT : AJY126LA*BH	45.0kW (16HP)  AJY144LA*BH UNIT : AJY144LA*BH
50.0 kW (18HP)  AJY162LA*BH UNIT : AJY162LA*BH	56.0 kW (20HP)  AJY180LA*BH UNIT : AJY090/090LA*BH	62.4 kW (22HP)  AJY198LA*BH UNIT : AJY126/072LA*BH	68.0 kW (24HP)  AJY216LA*BH UNIT : AJY126/090LA*BH	73.0 kW (26HP)  AJY234LA*BH UNIT : AJY144/090LA*BH
78.0 kW (28HP)  AJY252LA*BH UNIT : AJY162/090LA*BH	85.0 kW (30HP)  AJY270LA*BH UNIT : AJY144/126LA*BH	90.0 kW (32HP)  AJY288LA*BH UNIT : AJY144/144LA*BH	95.0 kW (34HP)  AJY306LA*BH UNIT : AJY162/144LA*BH	100.0 kW (36HP)  AJY324LA*BH UNIT : AJY162/162LA*BH
106.0 kW (38HP)  AJY342LA*BH UNIT : AJY162/090/090LA*BH	113.0 kW (40HP)  AJY360LA*BH UNIT : AJY144/126/090LA*BH	118.0 kW (42HP)  AJY378LA*BH UNIT : AJY144/144/090LA*BH	123.0 kW (44HP)  AJY396LA*BH UNIT : AJY162/144/090LA*BH	128.0 kW (46HP)  AJY414LA*BH UNIT : AJY162/162/090LA*BH
135.0 kW (48HP)  AJY432LA*BH UNIT : AJY144/144/144LA*BH	140.0 kW (50HP)  AJY450LA*BH UNIT : AJY162/144/144LA*BH	145.0 kW (52HP)  AJY468LA*BH UNIT : AJY162/162/144LA*BH	150.0 kW (54HP)  AJY486LA*BH UNIT : AJY162/162/162LA*BH	

AJY__LA*: AJY__LAL, AJY__LAT

Energy efficiency combination

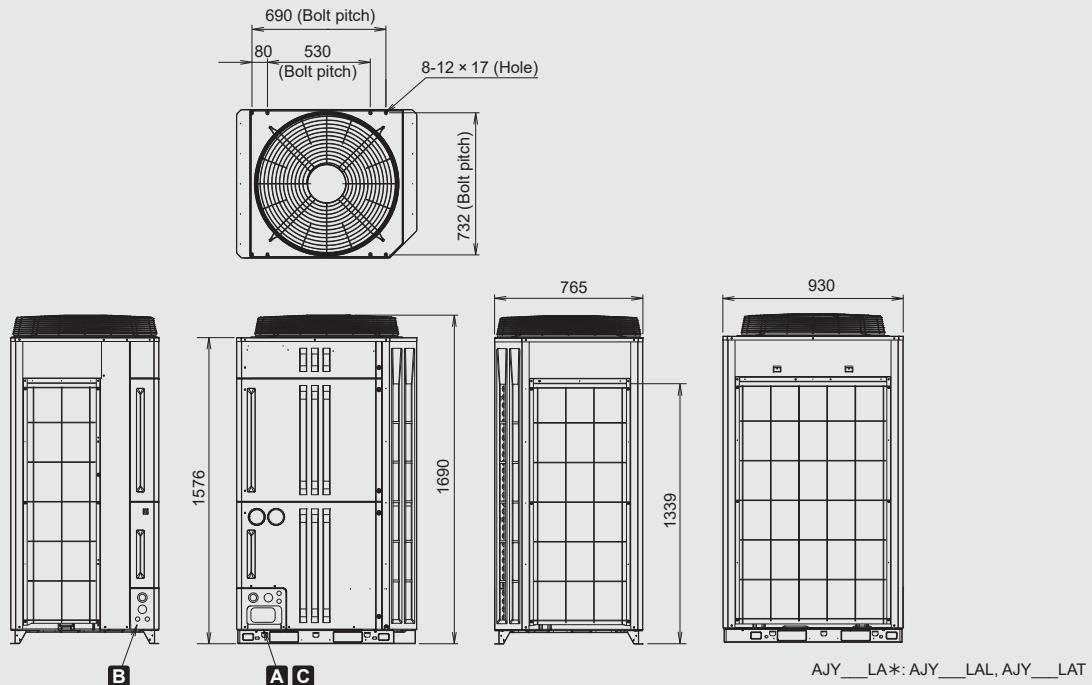
44.8 kW (16HP)  AJY144LA*BHH UNIT : AJY072/072LA*BH	50.4kW (18HP)  AJY162LA*BHH UNIT : AJY090/072LA*BH	55.9 kW (20HP)  AJY180LA*BHH UNIT : AJY108/072LA*BH	67.2 kW (24HP)  AJY216LA*BHH UNIT : AJY072/072/072LA*BH	72.8 kW (26HP)  AJY234LA*BHH UNIT : AJY090/072/072LA*BH
78.3 kW (28HP)  AJY252LA*BHH UNIT : AJY108/072/072LA*BH	84.8 kW (30HP)  AJY270LA*BHH UNIT : AJY126/072/072LA*BH	89.4 kW (32HP)  AJY288LA*BHH UNIT : AJY108/108/072LA*BH	95.9 kW (34HP)  AJY306LA*BHH UNIT : AJY126/108/072LA*BH	100.5 kW (36HP)  AJY324LA*BHH UNIT : AJY108/108/108LA*BH
107.0 kW (38HP)  AJY342LA*BHH UNIT : AJY126/108/108LA*BH	113.5 kW (40HP)  AJY360LA*BHH UNIT : AJY126/126/108LA*BH	120.0 kW (42HP)  AJY378LA*BHH UNIT : AJY126/126/126LA*BH	125.0 kW (44HP)  AJY396LA*BHH UNIT : AJY144/126/126LA*BH	130.0 kW (46HP)  AJY414LA*BHH UNIT : AJY144/144/126LA*BH

AJY__LA*: AJY__LAL, AJY__LAT

Dimensions

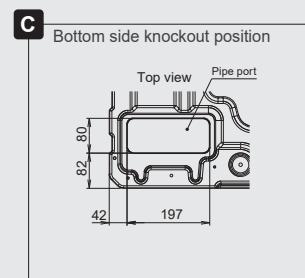
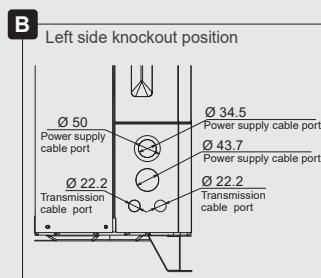
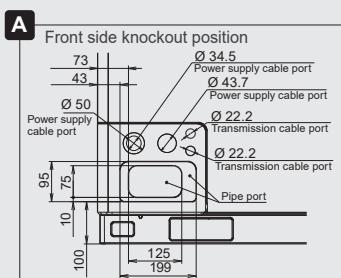
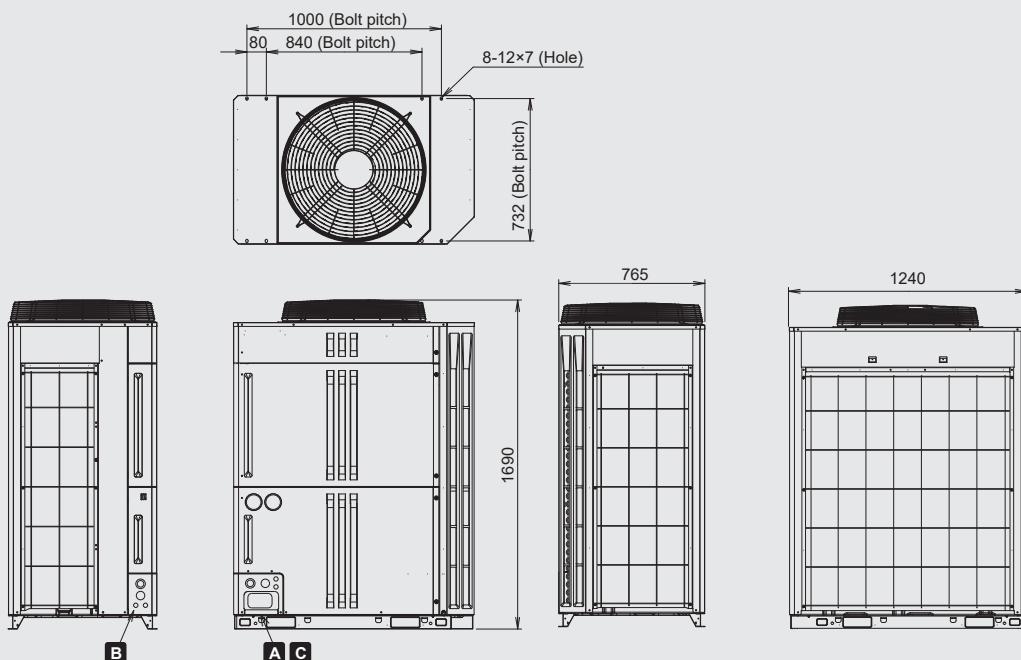
(Unit : mm)

8,10HP : AJY072LA*BH / AJY090LA*BH



12,14,16,18HP : AJY108LA*BH / AJY126LA*BH / AJY144LA*BH / AJY162LA*BH

(Unit : mm)



AJY__LA*: AJY__LAL, AJY__LAT

Outdoor units specifications

Space Saving Combination

Rating Capacity range	HP	8	10	12	14	16	18	20	22	24	26	28	
Model name		AJY072LA*BH	AJY090LA*BH	AJY108LA*BH	AJY126LA*BH	AJY144LA*BH	AJY162LA*BH	AJY180LA*BH	AJY198LA*BH	AJY216LA*BH	AJY234LA*BH	AJY252LA*BH	
Unit 1		AJY072LA*BH	AJY090LA*BH	AJY108LA*BH	AJY126LA*BH	AJY144LA*BH	AJY162LA*BH	AJY090LA*BH	AJY126LA*BH	AJY144LA*BH	AJY162LA*BH	AJY090LA*BH	
Unit 2								AJY090LA*BH	AJY072LA*BH	AJY090LA*BH	AJY090LA*BH		
Unit 3													
Maximum Connectable Indoor Unit*		17	21	26	30	34	39	43	47	52	56	60	
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	25.0-67.5	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.5	39.0-109.5
Power source								3-phase 4 wire, 400 V, 50Hz					
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
Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
	Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88
EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.73	3.60	3.27	
COP	Heating		4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
Air flow rate	High	m³/h	11,100	11,100	13,000	13,700	13,700	11,100×2	13,000+11,100	13,000+11,100	13,000+11,100	13,700+11,100	
Sound pressure level*	Cooling	dB (A)	56	58	57	60	62	63	61	61	62	63	64
	Heating		58	59	60	62	64	64	62	63	64	65	65
Maximum external static pressure	Pa		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	
Heat exchanger 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	
	Width	mm	930	930	1,240	1,240	1,240	1,240	930×2	1,240+930	1,240+930	1,240+930	
	Depth	mm	765	765	765	765	765	765	765	765	765	765	
Weight	kg		252	252	275	275	275	275	252×2	275+252	275+252	275+252	
Refrigerant	R410A								R410A	R410A	R410A	R410A	
Refrigerant charge	kg		11.7	11.7	11.8	11.8	11.8	11.8	11.7×2	11.8+11.7	11.8+11.7	11.8+11.7	
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°C	-15 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					

Energy Efficiency Combination

Rating Capacity range	HP	16	18	20	24	26	28	30	
Model name		AJY144LA*BHH	AJY162LA*BHH	AJY180LA*BHH	AJY216LA*BHH	AJY234LA*BHH	AJY252LA*BHH	AJY270LA*BHH	
Unit 1		AJY072LA*BH	AJY090LA*BH	AJY108LA*BH	AJY072LA*BH	AJY090LA*BH	AJY108LA*BH	AJY126LA*BH	
Unit 2			AJY072LA*BH	AJY072LA*BH	AJY072LA*BH	AJY072LA*BH	AJY072LA*BH	AJY072LA*BH	
Unit 3					AJY072LA*BH	AJY072LA*BH	AJY072LA*BH	AJY072LA*BH	
Maximum Connectable Indoor Unit*		34	39	43	52	56	60	64	
Indoor unit connectable capacity	Cooling	kW	22.4-67.2	25.2-75.6	28.0-83.8	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source					3-phase 4 wire, 400 V, 50Hz				
Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8
	Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0
Input power	Cooling	kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36
	Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51
EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97
COP	Heating		4.84	4.55	4.52	4.84	4.63	4.61	4.42
Air flow rate	High	m³/h	11,100×2	11,100×2	13,000+11,100	11,100×3	11,000×3	13,000+11,100×2	13,000+11,100×2
Sound pressure level*	Cooling	dB (A)	59	60	60	61	62	61	63
	Heating		61	62	62	63	63	64	65
Maximum external static pressure	Pa		82	82	82	82	82	82	
Compressor motor output	kW		7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width	mm	930×2	930×2	1,240+930	930×3	930×3	1,240+930×2	1,240+930×2
	Depth	mm	765	765	765	765	765	765	765
Weight	kg		252×2	252×2	275+252	252×3	252×3	275+252×2	275+252×2
Refrigerant	R410A					R410A	R410A	R410A	R410A
Refrigerant charge	kg		11.7×2	11.7×2	11.8+11.7	11.7×3	11.7×3	11.8+11.7×2	11.8+11.7×2
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05
	Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°C	-5 to 46	-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	-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.

*1 Minimum connectable indoor unit number is 2.

However ARXC72 and ARXC90 can be used signal connection.

30	32	34	36	38	40	42	44	46	48	50	52	54
AJY270LA*BH	AJY288LA*BH	AJY306LA*BH	AJY324LA*BH	AJY342LA*BH	AJY360LA*BH	AJY378LA*BH	AJY396LA*BH	AJY414LA*BH	AJY432LA*BH	AJY450LA*BH	AJY468LA*BH	AJY486LA*BH
AJY144LA*BH AJY162LA*BH AJY144LA*BH	AJY144LA*BH AJY162LA*BH AJY144LA*BH	AJY162LA*BH AJY162LA*BH AJY090LA*BH AJY090LA*BH	AJY162LA*BH AJY144LA*BH AJY090LA*BH AJY090LA*BH									
64	64	64	64	64	64	64	64	64	64	64	64	64
42.5-127.5	45.0-135.0	47.5-135.0	50.0-135.0	53.0-151.5	56.5-169.5	59.0-177.0	61.5-177.0	64.0-177.0	67.5-202.5	70.0-202.5	72.5-202.5	75.0-202.5
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
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
13,700+13,000	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+2+11,100	13,700×3	13,700×3	13,700×3	13,700×3
64	65	66	66	65	65	66	66	67	67	67	67	68
66	67	67	67	66	67	68	68	68	69	69	69	69
82	82	82	82	82	82	82	82	82	82	82	82	82
11.0×2	11.0×2	11.0×2	11.0×7.5×2	11.0×7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
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+930×2	1,240+2+930	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
275×2	275×2	275×2	275×2	275+252×2	275+252×2	275+252×2	275+252×2	275+252×2	275×3	275×3	275×3	275×3
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8×2	11.8×2	11.8×2	11.8×11.7×2	11.8×11.7×2	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3
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 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-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

AJY_LA*: AJY_LAL, AJY_LAT

32	34	36	38	40	42	44	46
AJY288LA*BHH	AJY306LA*BHH	AJY324LA*BHH	AJY342LA*BHH	AJY360LA*BHH	AJY378LA*BHH	AJY396LA*BHH	AJY414LA*BHH
AJY108LA*BH AJY108LA*BH AJY072LA*BH	AJY126LA*BH AJY108LA*BH AJY108LA*BH	AJY108LA*BH AJY108LA*BH AJY108LA*BH	AJY126LA*BH AJY108LA*BH AJY108LA*BH	AJY126LA*BH AJY126LA*BH AJY126LA*BH	AJY144LA*BH AJY126LA*BH AJY126LA*BH	AJY144LA*BH AJY126LA*BH AJY126LA*BH	AJY144LA*BH AJY144LA*BH AJY126LA*BH
64	64			64	64	64	64
44.7-134.1	48.0-143.8	50.3-150.7	53.5-160.5	56.8-170.2	60.0-180.0	62.5-187.5	65.0-195.0
3-phase 4 wire, 400 V, 50Hz							
89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3	13,000×3	13,700+13,000×2	13,700×2+13,000	
61	63	63	64	64	65	66	66
64	65	65	65	66	67	68	68
82	82	82	82	82	82	82	82
11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin							
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765	765	765	765	765
275×2+252	275×2+252	275×3	275×3	275×3	275×3	275×3	275×3
R410A							
11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3	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	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46							
-20 to 21							

*2 The noise value is the value when measured in an anechoic room.
When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

AJY_LA*: AJY_LAL, AJY_LAT

HEAT PUMP TYPE

NEW **AIRSTAGE™ V-III** TROPICAL series

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%

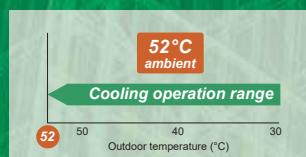
*Not available to sale in some regions.

System Outline



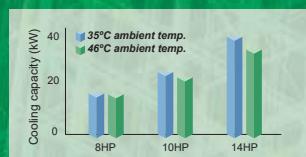
High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature



Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature



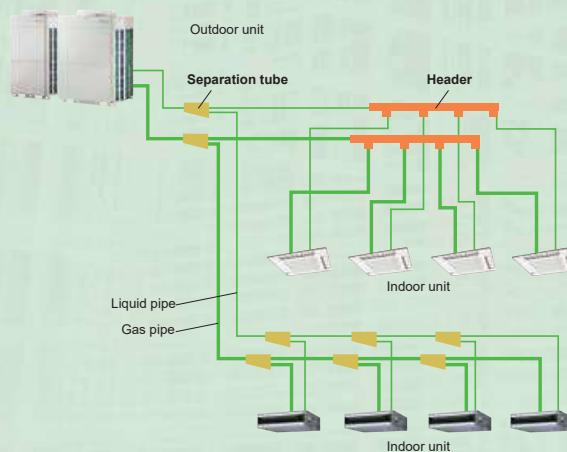
Anti-corrosion treatment design

All metalic and PCB components are protected against corrosion



System configuration example

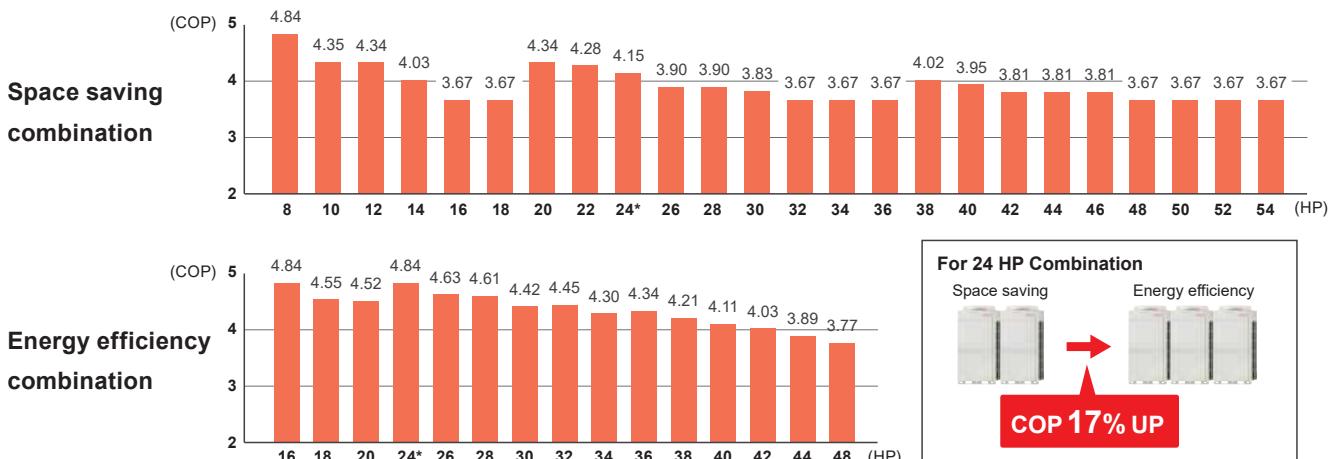
- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
- Connection of multiple indoor units using separation tubes and headers.



Features

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.



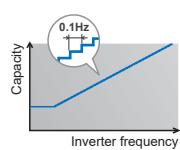
Sine-wave DC inverter control

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



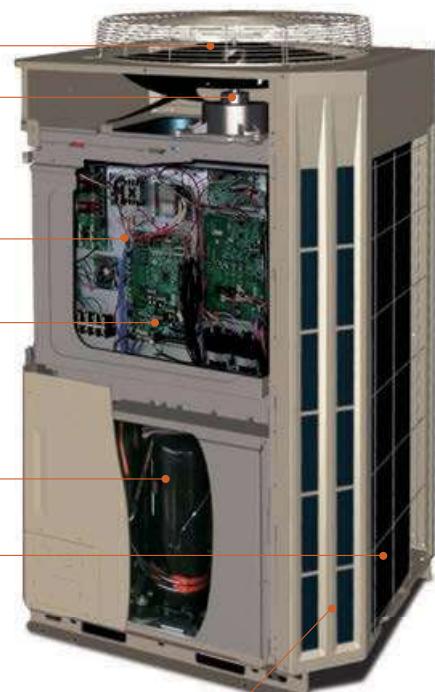
High efficient & Large capacity ALL DC inverter compressor

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.

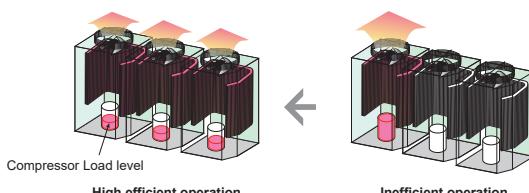


Front intake port (corner cut air inhaling structure)

Advanced energy saving control

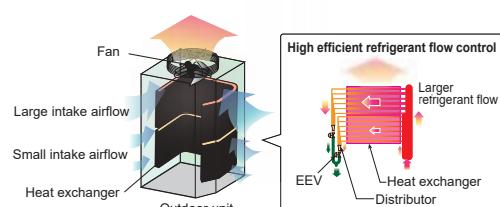
Multiple outdoor operation control

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.



INVERTER

AIRSTAGE™ V-III



Outdoor units lineup

- Combinations other than the followings are not recommended.

Space saving combination

22.4kW (8HP) 	28.0kW (10HP) 	33.5kW (12HP) 	40.0kW (14HP) 	45.0kW (16HP) 	50.0kW (18HP)*
AJY072LN*BH UNIT : AJY072LN*BH	AJY090LN*BH UNIT : AJY090LN*BH	AJY108LN*BH UNIT : AJY108LN*BH	AJY126LN*BH UNIT : AJY126LN*BH	AJY144LN*BH UNIT : AJY144LN*BH	AJY162LN*BH UNIT : AJY162LN*BH
56.0kW (20HP) 	62.4kW (22HP) 	68.0kW (24HP) 	73.0kW (26HP) 	78.0kW (28HP)* 	80.0kW (28HP)
AJY180LN*BH UNIT : AJY090/090LN*BH	AJY198LN*BH UNIT : AJY126/072LN*BH	AJY216LN*BH UNIT : AJY126/090LN*BH	AJY234LN*BH UNIT : AJY144/090LN*BH	AJY252LN*BH UNIT : AJY162/090LN*BH	AJY252LN*BHA UNIT : AJY126/126LN*BH
85.0kW (30HP) 	90.0kW (32HP) 	95.0kW (34HP)* 	96.0kW (34HP) 	100.0kW (36HP)* 	101.0kW (36HP)
AJY270LN*BH UNIT : AJY144/126LN*BH	AJY288LN*BH UNIT : AJY144/144LN*BH	AJY306LN*BH UNIT : AJY162/144LN*BH	AJY306LN*BHA UNIT : AJY126/090/090LN*BH	AJY324LN*BH UNIT : AJY162/162LN*BH	AJY324LN*BHA UNIT : AJY144/090/090LN*BH
106.0kW (38HP)* 	108.0kW (38HP) 	113.0kW (40HP) 	118.0kW (42HP) 	123.0kW (44HP)* 	128.0kW (46HP)*
AJY342LN*BH UNIT : AJY162/090/090LN*BH	AJY342LN*BHA UNIT : AJY126/126/090LN*BH	AJY360LN*BH UNIT : AJY144/126/090LN*BH	AJY378LN*BH UNIT : AJY144/144/090LN*BH	AJY396LN*BH UNIT : AJY162/144/090LN*BH	AJY414LN*BH UNIT : AJY162/162/090LN*BH
135.0kW (48HP) 	140.0kW (50HP)* 	145.0kW (52HP)* 	150.0kW (54HP)* 		
AJY432LN*BH UNIT : AJY144/144/144LN*BH	AJY450LN*BH UNIT : AJY162/144/144LN*BH	AJY468LN*BH UNIT : AJY162/162/144LN*BH	AJY486LN*BH UNIT : AJY162/162/162LN*BH		

AJY____LN*: AJY____LNL, AJY____LNT *: Not available to sale in some regions

Energy efficiency combination

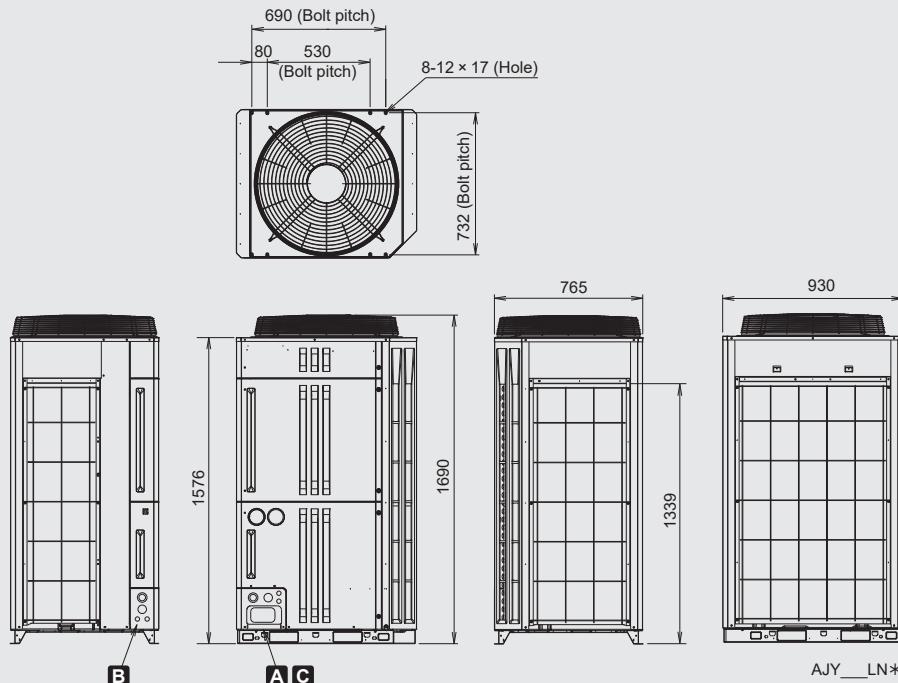
44.8kW (16HP) 	50.4kW (18HP) 	55.9kW (20HP) 	67.2kW (24HP) 	72.8kW (26HP) 	78.3kW (28HP)
AJY144LN*BHH UNIT : AJY072/072LN*BH	AJY162LN*BHH UNIT : AJY090/072LN*BH	AJY180LN*BHH UNIT : AJY108/072LN*BH	AJY216LN*BHH UNIT : AJY072/072LN*BH	AJY234LN*BHH UNIT : AJY090/072/072LN*BH	AJY252LN*BHH UNIT : AJY108/072/072LN*BH
84.8kW (30HP) 	89.4kW (32HP) 	95.9kW (34HP) 	100.5kW (36HP) 	107.0kW (38HP) 	113.5kW (40HP)
AJY270LN*BHH UNIT : AJY126/072/072LN*BH	AJY288LN*BHH UNIT : AJY108/108/072LN*BH	AJY306LN*BHH UNIT : AJY126/108/072LN*BH	AJY324LN*BHH UNIT : AJY108/108/108LN*BH	AJY342LN*BHH UNIT : AJY126/108/108LN*BH	AJY360LN*BHH UNIT : AJY126/126/108LN*BH
120.0kW (42HP) 	125.0kW (44HP) 	130.0kW (46HP) 			
AJY378LN*BHH UNIT : AJY126/126/126LN*BH	AJY396LN*BHH UNIT : AJY144/126/126LN*BH	AJY414LN*BHH UNIT : AJY144/144/126LN*BH			

AJY____LN*: AJY____LNL, AJY____LNT

Dimensions

(Unit : mm)

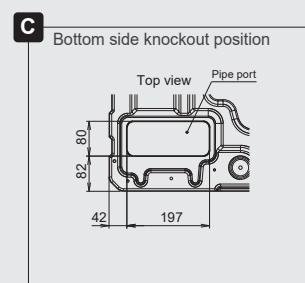
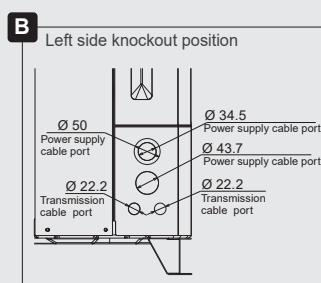
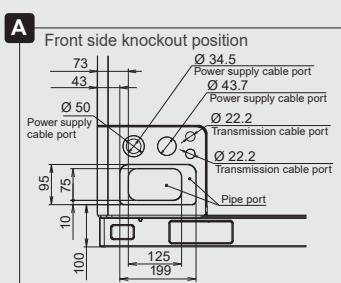
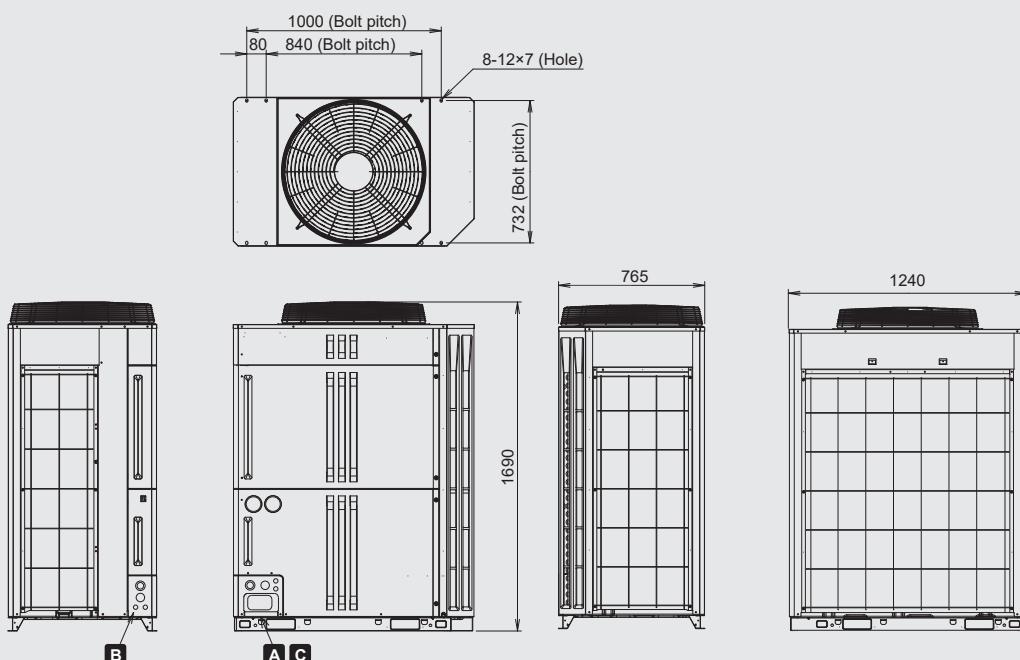
8,10HP : AJY072LN*BH / AJY090LN*BH



AJY___LN*: AJY___LNL, AJY___LNT

12,14,16,18HP : AJY0108LN*BH / AJY126LN*BH / AJY144LN*BH / AJY162LN*BH

(Unit : mm)



AJY___LN*: AJY___LNL, AJY___LNT

INVERTER

AIRSTAGE™ V-III



Outdoor units specifications

Space Saving Combination

Rating Capacity range	HP	8	10	12	14	16	18*	20	22	24	26	28*	28
Model name													
Unit 1	AJY072LN*BH	AJY090LN*BH	AJY108LN*BH	AJY126LN*BH	AJY144LN*BH	AJY162LN*BH	AJY180LN*BH	AJY198LN*BH	AJY216LN*BH	AJY234LN*BH	AJY252LN*BH	AJY252LN*BHA	
Unit 2	AJY072LN*BH	AJY090LN*BH	AJY108LN*BH	AJY126LN*BH	AJY144LN*BH	AJY162LN*BH	AJY090LN*BH	AJY126LN*BH	AJY090LN*BH	AJY144LN*BH	AJY162LN*BH	AJY090LN*BH	AJY126LN*BH
Unit 3													
Maximum Connectable Indoor Unit	13	16	19	23	26	29	33	36	40	43	46	47	
Indoor unit connectable capacity	kW	11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4	40-104
Power source													
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	kW	25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5
	Cooling Btu/h		76400	95500	114300	136500	153500	170600	191000	212900	232000	249000	266100
	Heating Btu/h		85300	107500	128000	153500	170600	170600	215000	238800	261000	278100	278100
T3 condition	Input power	Cooling kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
	Heating	kW	5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	22.34
	Current	A	9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-
	EER	Cooling W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27
	COP	Heating Btuh/W	4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
	EER	Cooling Btuh/W	14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2
	COP	Heating	16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.7
	Capacity	kW	20.2	25.2	28.5	32	35.1	35.2	50.4	52.2	57.2	60.3	60.4
	Input power	Btu/h	68900	86000	97200	109200	119800	120100	172000	178100	195200	205800	206100
	Current	kW	6.73	9.20	9.34	10.70	11.82	12.35	18.39	17.44	19.90	21.02	21.40
	EER	W/W	3.00	2.74	3.05	2.99	2.97	2.85	2.74	2.99	2.87	2.87	2.99
	Compressor motor output	Btuh/W	10.23	9.35	10.40	10.20	10.14	9.72	9.35	10.21	9.81	9.79	9.56
	Power factor	%	90	92	92	92	92	93	-	-	-	-	-
Airflow rate	High	m³/h	11100	11100	13000	13000	13700	13700	11100×2	13000+11100	13000+11100	13700+11100	13700+11100
Sound pressure level	Cooling	dB	56	58	57	60	62	63	61	61	62	63	64
	Heating	(A)	58	59	60	62	64	64	62	63	64	65	65
External static pressure (Max)	Pa	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output	kW	7.5	7.5	11	11	11	11	7.5×2	11.0×7.5	11.0×7.5	11.0×7.5	11.0×7.5	11.0×2
Heat exchanger fin			Blue fin	Blue fin									
Dimensions	Height	mm	1690	1690	1690	1690	1690	1690	1690×2	1690×2	1690×2	1690×2	1690×2
	Width	mm	930	930	1240	1240	1240	1240	930×2	1240+930	1240+930	1240+930	1240+930
	Depth	mm	765	765	765	765	765	765	765×2	765×2	765×2	765×2	765×2
Weight	kg	255	255	279	279	279	279	255×2	279+255	279+255	279+255	279+255	279+255
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Factory charged amount	kg	11.7	11.7	11.8	11.8	11.8	11.8	11.7×2	11.8+11.7	11.8+11.7	11.8+11.7	11.8+11.7
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Gas	mm	22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52					
	Heating	°CDB	-20 to 21	-20 to 21									

Energy efficiency combination

Rating Capacity range	HP	16	18	20	24	26	28	30	32		
Model name											
Unit 1	AJY144LN*BHH	AJY162LN*BHH	AJY180LN*BHH	AJY216LN*BHH	AJY234LN*BHH	AJY252LN*BHH	AJY270LN*BHH	AJY288LN*BHH			
Unit 2	AJY072LN*BH	AJY090LN*BH	AJY108LN*BH	AJY072LN*BH	AJY090LN*BH	AJY108LN*BH	AJY126LN*BH	AJY108LN*BH	AJY126LN*BH		
Unit 3	AJY072LN*BH	AJY072LN*BH	AJY072LN*BH	AJY072LN*BH	AJY072LN*BH	AJY072LN*BH	AJY072LN*BH	AJY072LN*BH	AJY072LN*BH		
Maximum Connectable Indoor Unit	26	29	33	39	43	46	50	52			
Indoor unit connectable capacity	kW	22.4-58.2	25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	44.7-116.2		
Power source											
T1 condition	Capacity	Cooling kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	
	Heating	kW	50.0	56.5	62.5	75.0	81.5	87.5	95.0	100.0	
	Cooling Btu/h		152800	171900	190700	229200	248300	267100	289300	305000	
	Heating Btu/h		170600	192800	213300	255900	278100	298600	324100	341300	
T3 condition	Input power	Cooling kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36	23.12	
	Heating	kW	10.34	12.42	13.82	15.51	17.59	18.99	21.51	22.47	
	Current	A	-	-	-	-	-	-	-	-	
	EER	Cooling W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97	3.87	
	COP	Heating	4.84	4.55	4.52	4.84	4.63	4.61	4.42	4.45	
	EER	Cooling Btuh/W	14.7	13.8	13.5	14.7	14.0	13.8	13.5	13.2	
	COP	Heating	16.5	15.5	15.4	16.5	15.8	15.7	15.1	15.2	
	Capacity	kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4	77.2	
	Input power	Btu/h	137800	154900	166100	206700	223800	235000	247000	263300	
	Current	kW	13.47	15.93	16.08	20.20	22.66	22.81	24.17	25.42	
	EER	Cooling W/W	3.00	2.85	3.03	3.00	2.89	3.02	3.00	3.04	
	Compressor motor output	Btuh/W	10.23	9.72	10.33	10.23	9.87	10.30	10.22	10.36	
	Power factor	%	-	-	-	-	-	-	-	-	
Airflow rate	High	m³/h	11100×2	11100×2	13000+11100	11100×3	11100×3	13000+11100×2	13000+11100×2	13000×2+11100	
Sound pressure level	Cooling	dB	59	60	60	61	62	61	63	61	
	Heating	(A)	61	62	62	63	63	64	65	64	
External static pressure (Max)	Pa	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	11.0×7.5×2	11.0×2+7.5	
Heat exchanger fin			Blue fin	Blue fin	Blue fin						
Dimensions	Height	mm	1690×2	1690×2	1690×2	1690×3	1690×3	1690×3	1690×3	1690×3	
	Width	mm	1240×2	1240×2	1240+930	930×3	930×3	1240+930×2	1240+930×2	1240+930×2	
	Depth	mm	765×2	765×2	765×2	765×3	765×3	765×3	765×3	765×3	
Weight	kg	279×2	279×2	279+255	255×3	255×3	279+255×2	279+255×2	279+255×2	279+255	
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Factory charged amount	kg	11.7×2	11.7×2	11.8+11.7	11.7×3	11.7×3	11.8+11.7×2	11.8+11.7×2	11.8+11.7×2	11.8+11.7×2
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	15.88	19.05	
	Gas	mm	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	
Operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46						
	Heating	°CDB	-20 to 21	-20 to 21	-20 to 21						

30	32	34*	34	36*	36	38*	38	40	42	44*	46*	48	50*	52*	54*
AJY270LN*BH	AJY288LN*BH	AJY306LN*BH	AJY306LN*BHA	AJY324LN*BH	AJY324LN*BHA	AJY342LN*BH	AJY342LN*BHA	AJY360LN*BH	AJY378LN*BH	AJY396LN*BH	AJY414LN*BH	AJY432LN*BH	AJY450LN*BH	AJY468LN*BH	AJY486LN*BH
AJY144LN*BH	AJY144LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY144LN*BH	AJY144LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH
AJY126LN*BH	AJY144LN*BH	AJY144LN*BH	AJY144LN*BH	AJY090LN*BH	AJY162LN*BH	AJY090LN*BH	AJY090LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH	AJY162LN*BH
50	53	55	55	55	55	55	55	55	55	55	55	55	55	55	55
42.5-110.5	45-117	47.5-123.5	48-124.8	50-130	50.5-131.3	53-137.8	54-140.4	56.5-146.9	59-153.4	61.5-159.9	64-166.4	67.5-175.5	70-182	72.5-188.5	75-195
3N ~ 400V, 50/60Hz															
85.0	90.0	95.0	96.0	100.0	101.0	106.0	108.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
95.0	100.0	100.0	108.0	100.0	113.0	113.0	121.5	126.5	131.5	131.5	150.0	150.0	150.0	150.0	150.0
290000	307000	324100	327500	342100	344500	361600	368500	385500	402500	419600	436700	460500	477600	494700	511800
324100	341200	341200	368500	342100	385600	385600	414500	431600	448700	448700	484700	511800	511800	511800	511800
23.97	26.02	29.57	25.52	33.12	27.57	31.12	29.20	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
24.80	27.26	27.26	25.67	27.26	28.13	29.59	32.05	34.51	34.51	40.89	40.89	40.89	40.89	40.89	40.89
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.55	3.46	3.21	3.76	3.02	3.66	3.41	3.70	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
3.83	3.67	3.67	4.21	3.67	4.02	4.02	4.11	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
12.1	11.8	11.0	12.8	10.3	12.5	11.6	12.6	12.3	12.1	11.4	10.8	11.8	11.2	10.7	10.3
13.1	12.5	12.5	14.4	12.5	13.7	13.7	14.0	13.5	13.0	13.0	13.0	12.5	12.5	12.5	12.5
67.1	70.2	70.3	82.4	70.4	85.5	85.6	89.2	92.3	95.4	95.5	95.6	105.3	105.4	105.5	105.6
229000	239600	239900	281200	240200	291800	292100	304400	315000	325600	325900	326200	359400	359700	360000	360300
22.52	23.64	24.17	29.10	24.70	30.21	30.75	30.60	31.72	32.83	33.37	33.90	35.45	35.99	36.52	37.05
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.98	2.97	2.91	2.83	2.85	2.83	2.78	2.91	2.91	2.86	2.82	2.97	2.93	2.89	2.85	-
10.17	10.14	9.93	9.66	9.72	9.66	9.50	9.95	9.93	9.92	9.77	9.62	10.14	10.00	9.86	9.72
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13700+13000	13700*2	13700*2	13000+11100*2	13700*2	13700+11100*2	13700+11100*2	13000*2+11100	13700+13000+11100	13700*2+11100	13700*2+11100	13700*2+11100	13700*2+11100	13700*3	13700*3	13700*3
64	65	66	64	66	65	65	64	65	66	66	67	67	67	67	68
66	67	67	65	67	66	66	66	67	68	68	69	69	69	69	69
82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
11.0*2	11.0*2	11.0*2	11.0*7.5*2	11.0*2	11.0*7.5*2	11.0*7.5*2	11.0*7.5*2	11.0*2+7.5	11.0*2+7.5	11.0*2+7.5	11.0*2+7.5	11.0*2+7.5	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	Blue fin	Blue fin	Blue fin
1690*2	1690*2	1690*2	1690*3	1690*2	1690*3	1690*3	1690*3	1690*3	1690*3	1690*3	1690*3	1690*3	1690*3	1690*3	1690*3
1240*2	1240*2	1240*2	1240+930*2	1240*2	1240+930*2	1240+930*2	1240+930*2	1240+2+930	1240+2+930	1240+2+930	1240+2+930	1240+2+930	1240*3	1240*3	1240*3
765*2	765*2	765*2	765*3	765*2	765*3	765*3	765*3	765*3	765*3	765*3	765*3	765*3	765*3	765*3	765*3
279*2	279*2	279*2	279*255*2	279*2	279*255*2	279*255*2	279*255*2	279*2+255	279*2+255	279*2+255	279*2+255	279*2+255	279*3	279*3	279*3
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8*2	11.8*2	11.8*2	11.8+11.7*2	11.8*2	11.8+11.7*2	11.8+11.7*2	11.8+11.7*2	11.8+2+11.7	11.8+2+11.7	11.8+2+11.7	11.8+2+11.7	11.8+2+11.7	11.8+3	11.8+3	11.8+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	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	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	-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	-20 to 21	-20 to 21	-20 to 21

AJY___LN*: AJY___LNL, AJY___LNT *: Not available for sale in some regions.

34	36	38	40	42	44	46
AJY306LN*BHH	AJY324LN*BHH	AJY342LN*BHH	AJY360LN*BHH	AJY378LN*BHH	AJY396LN*BHH	AJY414LN*BHH
AJY126LN*BH	AJY108LN*BH	AJY126LN*BH	AJY126LN*BH	AJY126LN*BH	AJY144LN*BH	AJY144LN*BH
AJY108LN*BH	AJY108LN*BH	AJY108LN*BH	AJY108LN*BH	AJY126LN*BH	AJY144LN*BH	AJY144LN*BH
AJY072LN*BH	AJY072LN*BH	AJY072LN*BH	AJY108LN*BH	AJY126LN*BH	AJY126LN*BH	AJY144LN*BH
55	55	55	55	55	55	55
48.0-124.7	50.3-130.6	53.5-139.1	56.8-147.5	60-156	62.5-162.5	65-169
3N ~ 400V, 50/60Hz						
95.9	100.5	107.0	113.5	120.0	125.0	130.0
107.5	112.5	120.0	127.5	135.0	140.0	145.0
327000	342900	365100	387300	409500	426500	443500
366800	384000	409500	435000	460500	477600	494700
25.12	26.88	28.88	30.88	32.88	34.93	36.98
24.99	25.95	28.47	30.99	33.51	35.97	38.43
-	-	-	-	-	-	-
3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.30	4.34	4.21	4.11	4.03	3.89	3.77
13.0	12.8	12.6	12.5	12.5	12.2	12.0
14.7	14.8	14.4	14.0	13.7	13.3	12.9
80.7	85.5	89.0	92.5	96.0	99.1	102.2
275300	291600	303600	315600	327600	338200	348800
26.77	28.03	29.39	30.75	32.11	33.22	34.34
-	-	-	-	-	-	-
3.01	3.05	3.03	3.01	2.99	2.98	2.98
10.28	10.40	10.33	10.26	10.20	10.18	10.16
-	-	-	-	-	-	-
13000*2+11100	13000*3	13000*3	13000*3	13000*3	13700+13000*2	13700+2+13000
63	64	64	64	65	66	66
65	66	66	66	67	68	68
82	82	82	82	82	82	82
11.0*2+7.5	11.0*3	11.0*3	11.0*3	11.0*3	11.0*3	11.0*3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690*3	1690*3	1690*3	1690*3	1690*3	1690*3	1690*3
1240*2+930	1240*3	1240*3	1240*3	1240*3	1240*3	1240*3
765*3	765*3	765*3	765*3	765*3	765*3	765*3
279*2+255	279*3	279*3	279*3	279*3	279*3	279*3
R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8*2+11.7	11.8*3	11.8*3	11.8*3	11.8*3	11.8*3	11.8*3
19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 46	-5 to 46				
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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

AJY___LN*: AJY___LNL, AJY___LNT

HEAT PUMP TYPE

NEW **AIRSTAGE™ J-III** series

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

System Outline



Excellent energy savings

Heat pump type inverter control is used to achieve economic cooling and heating operation for individual air conditioners to entire air conditioning systems.



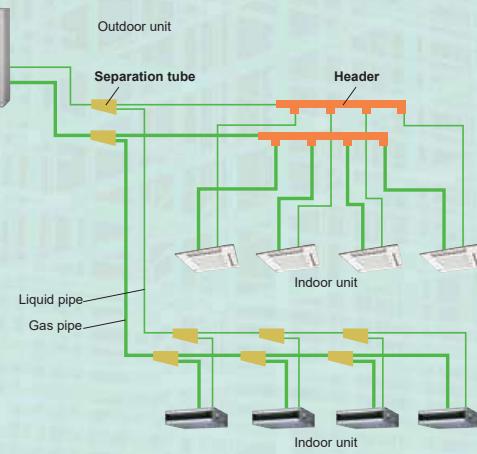
Flexible systems for small- and medium-size buildings air conditioning

Space saving design and long piping design allow for flexible installation on the roofs or balconies of small- and medium-size buildings.
Multiple indoor units of various capacities and types can be connected.



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.

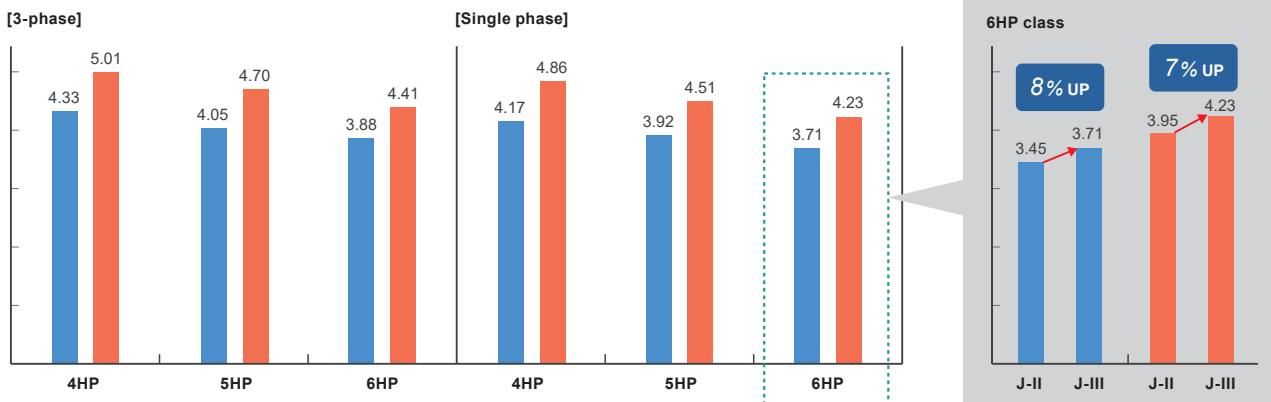


Features

Efficiency in actual operation

Top class high 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



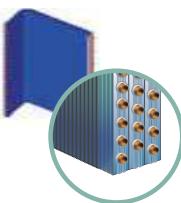
Large propeller fan

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



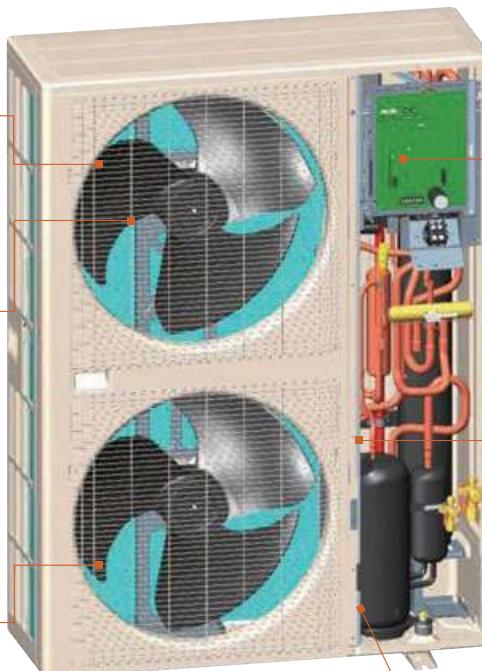
DC fan motor

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.



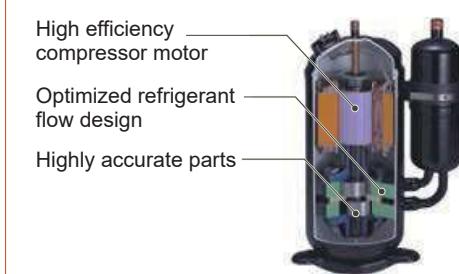
DC inverter control

Efficiency is improved by mounting of new active filter module.



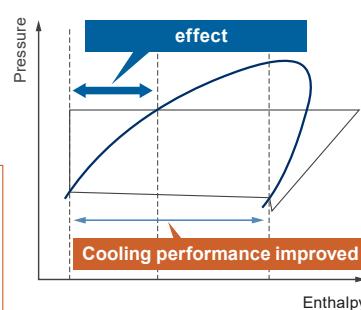
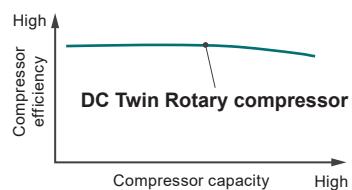
Subcool heat exchanger

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



DC twin rotary compressor

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



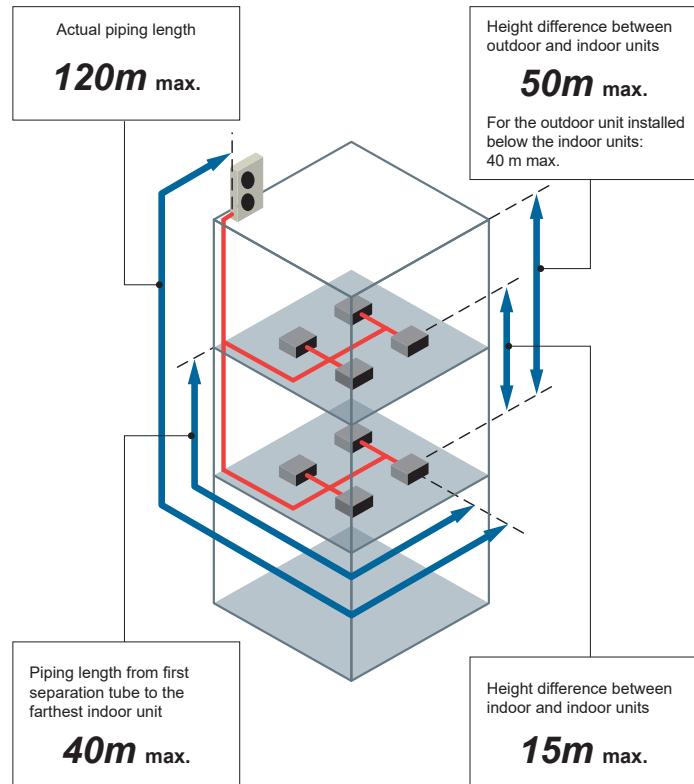
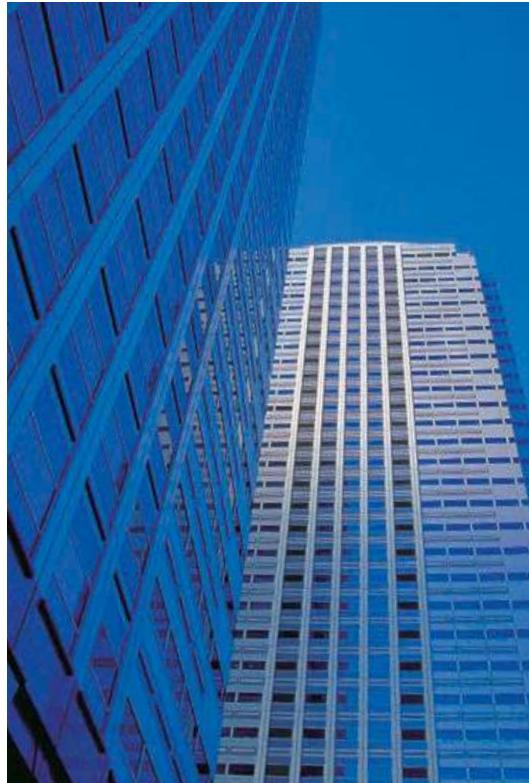
Features

Long piping capability

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

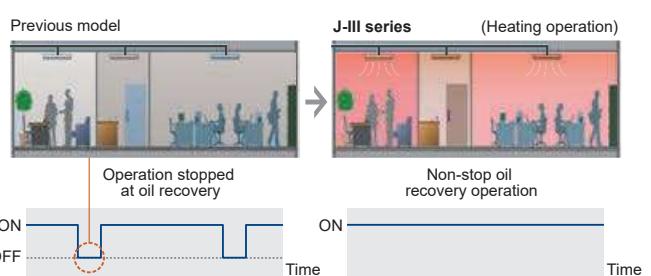
Total pipe length

180m max.



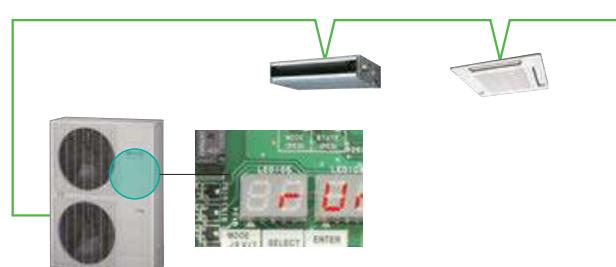
Non-stop oil recovery operation

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.



Specifications

Rating Capacity range	HP	4	5	6	4	5	6
Model name		AJY040LBLAH	AJY045LBLAH	AJY054LBLAH	AJY040LELAH	AJY045LELAH	AJY054LELAH
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 kW	12.1	14.0	15.5	12.1	14.0	15.5
	Heating kW	13.6	16.0	18.0	13.6	16.0	18.0
Input power	Cooling kW	2.90	3.57	4.18	2.79	3.46	3.99
	Heating kW	2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling W/W	4.17	3.92	3.71	4.33	4.05	3.88
COP	Heating W/W	4.86	4.51	4.23	5.01	4.70	4.41
Air flow rate	m³/h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level	Cooling dB (A)	50	51	53	50	51	53
	Heating dB (A)	52	53	55	52	53	55
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 mm	970	970	970	970	970	970
	Depth mm	370	370	370	370	370	370
Weight kg		117	117	119	119	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	4.8	5.3	5.3	4.8	5.3	5.3
Connection pipe diameter	Liquid mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas mm	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)		
Operation range	Cooling C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating C	-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.

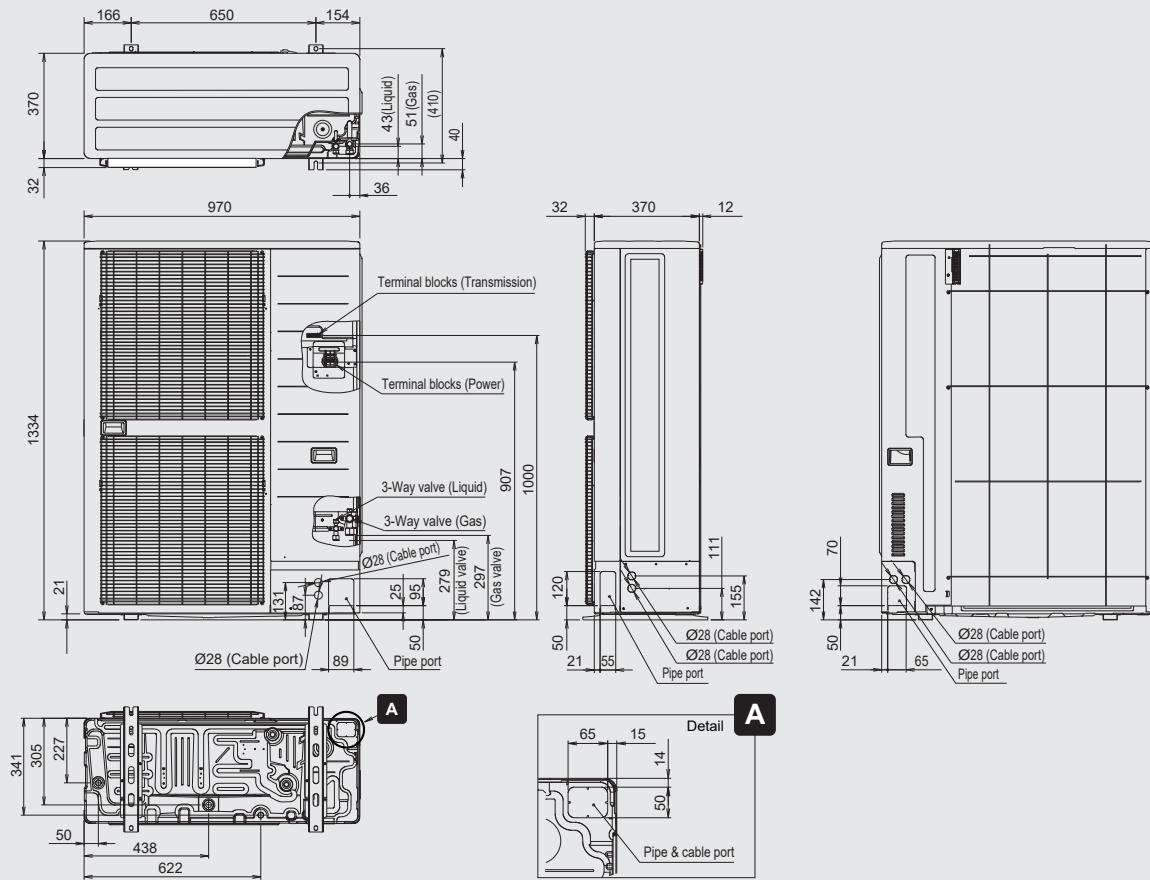
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

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

Dimensions

(Unit : mm)

Model : AJY040LBLAH / AJY045LBLAH / AJY054LBLAH / AJY040LELAH / AJY045LELAH / AJY054LELAH



INVERTER

AIRSTAGE™ SERIES INDOOR UNITS

Indoor Units Specifications

Compact Cassette



Model name		AUXB07GALH AUXB07GATH		AUXB09GALH AUXB09GATH		AUXB12GALH AUXB12GATH		AUXB14GALH AUXB14GATH		AUXB18GALH AUXB18GATH		AUXB24GALH AUXB24GATH	
Power source													
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1					
	Heating		2.8	3.2	4.1	5.0	6.3	8.0					
Input power		W	25	25	29	35	36	84					
Airflow rate	High	m³/h	540	550	600	680	710	1,030					
	Med		450	450	530	590	580	830					
	Low		350	350	390	390	400	450					
Sound pressure level	High	dB(A)	34	35	37	38	41	50					
	Med		30	30	34	34	35	44					
	Low		25	25	27	27	27	30					
Dimensions (H x W x D)		mm	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570	
Weight		kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)					
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52					
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88					
Drain hose diameter (I.D./O.U.)			25 / 32										
Cassette	Model name		UTG-UFGC-W										
Grille	Dimensions (HxWxD)	mm	50×700×700										
	Weight	kg(lbs)	2.6 (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].

Compact Cassette

(Slim type)



(Large type)



Model name		AUXD18GALH AUXD18GATH	AUXD24GALH AUXD24GATH	AUXA18GALH	AUXA24GALH	AUXA30GALH AUXA30GATH	AUXA34GALH	AUXA36GALH AUXA36GATH	AUXA45GALH	AUXA54GALH AUXA54GATH		
Power source		Single - phase, ~230V, 50Hz										
Capacity	Cooling	kW	5.6	7.1	5.6	7.1	9.0	10.0	11.2	12.5	14.0	
	Heating		6.3	8.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0	
Input power		W	39	46	51	51	59	77	80	99	119	
Airflow rate	High	m³/h	1,150	1,280	1,420	1,420	1,600	1,750	1,800	1,900	2,000	
	Med		940	1,040	1,230	1,230	1,300	1,300	1,300	1,370	1,370	
	Low		870	870	1,100/1,000*1	1,100/1,000*1	1,100	1,100	1,100	1,100	1,100	
Sound pressure level	High	dB(A)	36	38	40	40	40	43	44	46	47	
	Med		30	33	36	36	38	38	39	39	39	
	Low		29	29	33/31*1	33/31*1	33	33	33	33	33	
Dimensions (H x W x D)		mm	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	
Weight		kg(lbs)	22 (48)	22 (48)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	
	Gas (Flare)		15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	
Drain hose diameter (I.D./O.U.)			25 / 32									
Cassette	Model name		UTG-UGYA-W									
Grille	Dimensions (HxWxD)	mm	50×950×950									
	Weight	kg(lbs)	5.5 (12)									

Note : Specifications are based on the following conditions.

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

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].

Mini Duct

(With drain pump)



(Without drain pump)



Model name		ARXK07GCLH ARXK07GALH	ARXK09GCLH ARXK09GALH	ARXK12GCLH ARXK12GALH	ARXK14GCLH ARXK14GALH	ARXK18GCLH ARXK18GALH	ARXK24GCLH ARXK24GALH					
Power source		Single - phase, ~230V, 50Hz										
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1				
	Heating		2.8	3.2	4.0	5.0	6.3	8.0				
Input power		GCLH / GALH	W	28 / 21	28 / 21	35 / 28	66 / 59	73 / 66				
Airflow rate	High	m³/h	460	460	550	760	930	1,160				
	Med		420	420	480	560	740	960				
	Low		370	370	410	410	540	750				
Static pressure range		Pa	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50				
Standard static pressure			10	10	10	15	15	15				
Sound pressure level	High	dB(A)	26	26	29	34	33	32				
	Med		24	24	26	28	28	28				
	Low		22	22	24	24	24	25				
Dimensions (H x W x D)		mm	198×700×450	198×700×450	198×700×450	198×700×450	198×900×450	198×1,100×450				
Weight		GCLH / GALH	kg(lbs)	15.5 (34) / 15 (33)	15.5 (34) / 15 (33)	16 (35) / 15.5 (34)	16 (35) / 15.5 (34)	19 (42) / 18.5 (41)	22.5 (50) / 22 (49)			
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52				
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88				
Drain hose diameter (I.D./O.U.)			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].

Slim Duct / Slim Concealed Floor



Model name			ARXD07GALH ARXD07GATH ARXD07LATH	ARXD09GALH ARXD09GATH ARXD09LATH	ARXD12GALH ARXD12GATH ARXD12LATH	ARXD14GALH ARXD14GATH ARXD14LATH	ARXD18GALH ARXD18GATH ARXD18LATH	ARXD24GALH ARXD24GATH ARXD24LATH
Power source								
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	44	50	54	92	83	122
Airflow rate	High	m³/h	550	600	600	800	940	1,330
	Med		490	550	510	710	840	1,240
	Low		440	480	450	610	750	1,100
Static pressure range		Pa	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		25	26	27	32	32	32
	Low		22	24	24	28	28	29
Dimensions (H x W x D)		mm	198×700×620	198×700×620	198×700×620	198×700×620	198×900×620	198×1,100×620
Weight		kg(lbs)	17 (37)	17 (37)	18 (40)	18 (40)	22 (48)	26 (57)
Connection	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
pipe diameter	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.U.)						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.

Low Static Pressure Duct



Model name			ARXB24LATH	ARXB30LATH	ARXB36LATH	ARXB45LATH
Power source						
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	145	198	253	338
Airflow rate	High	m³/h	1,100	1,410	1,710	1,970
	Med		920	1,280	1,600	1,790
	Low		810	1,150	1,470	1,670
Static pressure range		Pa	0 to 80	0 to 80	0 to 80	0 to 80
Standard static pressure			40	50	50	60
Sound pressure level	High	dB(A)	31	34	37	41
	Med		27	32	35	38
	Low		25	29	33	36
Dimensions (H x W x D)		mm	270×1,135×700	270×1,135×700	270×1,135×700	270×1,135×700
Weight		kg(lbs)	39 (86)	42 (93)	42 (93)	42 (93)
Connection	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)		15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.U.)					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.

Medium Static Pressure Duct



Model name			ARXA24GBLH ARXA24GBTB ARXA24LATH	ARXA30GBLH ARXA30GBTB ARXA30LATH	ARXA36GBLH ARXA36GBTB ARXA36LATH	ARXA45GBLH ARXA45GBTB ARXA45LATH
Power source						
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	190	188	312	312
Airflow rate	High	m³/h	1,280	1,280	1,720	1,720
	Med		1,210	1,210	1,670	1,670
	Low		1,130	1,130	1,600	1,600
Static pressure range		Pa	30 to 150	30 to 150	30 to 150	30 to 150
Standard static pressure			100	100	100	100
Sound pressure level	High	dB(A)	38	40	43	43
	Med		36	38	41	41
	Low		34	36	39	39
Dimensions (H x W x D)		mm	270×1,135×700	270×1,135×700	270×1,135×700	270×1,135×700
Weight		kg(lbs)	39 (86)	42 (93)	42 (93)	42 (93)
Connection	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)		15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.U.)					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.

INVERTER

AIRSTAGE™ SERIES INDOOR UNITS

Indoor Units Specifications

High Static Pressure Duct



Model name			ARXC36GBTH	ARXC72GBTH	ARXC90GBTH	ARXC96GATH	ARXC45GATH	ARXC60GATH	ARXC72GATH	ARXC90GATH
Power source			Single - phase, ~230V, 50Hz							
Capacity	Cooling	kW	11.2	22.4	25.0	28.0	12.5	18.0	22.4	25.0
	Heating		12.5	25.0	28.0	31.5	14.0	20.0	25.0	28.0
Input power		W	207	681	819	838	715	730	1,110	1,250
Airflow rate	High		1,990	3,900	4,300	4,850	3,500	3,500	3,900	4,300
	Med		1,680	3,300	4,000	4,250	3,000	3,000	3,300	4,000
	Low		1,330	3,000	3,500	3,600	2,460	2,460	3,000	3,500
Static pressure range		Pa	0 to 200	0 to 300	0 to 300	0 to 300	100 to 250	100 to 250	50 to 300	100 to 300
Standard static pressure			100	150	150	150	100	100	260	250
Sound pressure level	High		42	47	48	48	49	49	51	53
	Med		36	43	46	45	45	45	48	51
	Low		32	40	44	42	42	42	45	49
Dimensions (H x W x D)		mm	400x1,050x500	450x1,587x700	450x1,587x700	550x1,587x700	400x1,050x500	400x1,050x500	450x1,550x700	450x1,550x700
Weight		kg(lbs)	40 (88)	84(185)	84(185)	105(231)	46 (101)	46 (101)	83 (-)	85 (-)
Connection	Liquid		9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)	12.70 (Brazing)	9.52 (Flare)	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)
pipe diameter	Gas		19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)	22.22 (Brazing)	19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diameter (I.D./O.U.)										

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.

25 / 32

Floor / Ceiling



Model name			ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH		
Power source			Single - phase, ~230V, 50Hz					
Capacity	Cooling	kW	3.6	4.5	5.6	7.1		
	Heating		4.0	5.0	6.3	8.0		
Input power		W	30	42	74	99		
Airflow rate	High		660	780	1,000	1,000		
	Med		570	640	720	820		
	Low		490	550	580	680		
Sound pressure level	High		36	40	46	47		
	Med		32	36	39	42		
	Low		28	34	35	37		
Dimensions (H x W x D)		mm	199x990x655	199x990x655	199x990x655	199x990x655		
Weight		kg(lbs)	25 (55)	26 (57)	26 (57)	27 (59)		
Connection	Liquid (Flare)		6.35	6.35	9.52	9.52		
pipe diameter	Gas (Flare)		12.70	12.70	15.88	15.88		
Drain hose diameter (I.D./O.U.)								

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].

25 / 32

Ceiling



Model name			ABYA30GATH	ABYA36GATH	ABYA45GATH	ABYA54GATH		
Power source			Single - phase, ~230V, 50Hz					
Capacity	Cooling	kW	9.0	11.2	12.5	14.0		
	Heating		10.0	12.5	14.0	16.0		
Input power		W	66	85	131	180		
Airflow rate	High		1,630	1,690	2,010	2,270		
	Med		1,370	1,400	1,600	1,780		
	Low		1,140	1,170	1,230	1,280		
Sound pressure level	High		42	45	48	51		
	Med		38	38	42	45		
	Low		33	34	35	36		
Dimensions (H x W x D)		mm	240x1,660x700	240x1,660x700	240x1,660x700	240x1,660x700		
Weight		kg(lbs)	46 (101)	48 (106)	48 (106)	48 (106)		
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52		
pipe diameter	Gas (Flare)		15.88	19.05	19.05	19.05		
Drain hose diameter (I.D./O.U.)								

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].

25 / 32

Wall Mounted



Model name			ASYA07GACH ASYA07GATH	ASYA09GACH ASYA09GATH	ASYA12GACH ASYA12GATH	ASYA14GACH ASYA14GATH	ASYE07GACH	ASYE09GACH	ASYE12GACH	ASYE14GACH	
Power source			Single - phase, ~230V, 50Hz						Single - phase, ~230V, 50Hz		
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	2.2	2.8	3.6	4.5	
	Heating		2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0	
Input power			W	17	18	22	34	15	16	21	
Airflow rate	High	m³/h	490	500	560	670	490	500	560	680	
	Med		450	450	480	490	450	450	480	490	
	Low		370/420*1	370/420*1	420	420	370/420*1	370/420*1	420	420	
Sound pressure level	High	dB(A)	35	36	39	44	34	35	38	43	
	Med		33	33	35	37	32	32	34	35	
	Low		27 / 31*1	27 / 31*1	31	32	26 / 30*1	26 / 30*1	30	30	
Dimensions (H x W x D)			mm	275×790×215	275×790×215	275×790×215	275×790×215	275×790×215	275×790×215	275×790×215	
Weight			kg(lbs)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	
	Gas (Flare)		12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70	
Drain hose diameter (I.D./O.U.)				13.8 / 15.8 to 16.7			13.8 / 15.8 to 16.7				
EV Kit (option)				-	-	-	UTR-EV09XB	UTR-EV09XB	UTR-EV09XB	UTR-EV09XB	

Note : Specifications are based on the following conditions.

*1 : This value is under cooling operation.

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].

Wall Mounted



Model name			ASYA18GACH	ASYA24GACH	ASYA30GACH	
Power source			Single - phase, ~230V, 50Hz			
Capacity	Cooling	kW	5.6	7.1	8.0	
	Heating		6.3	8.0	9.0	
Input power			W	32	60	
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 x W x D)			mm	320×998×228	320×998×228	
Weight			kg(lbs)	15 (33)	15 (33)	
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.U.)				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].

AIRSTAGE™ SERIES CONTROLLER

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

**Wired Remote Controller
(Touch panel)**
UTY-RNRYZ1 **NEW**



Wired Remote Controller
UTY-RLRY



Simple Remote Controller
UTY-RSKY



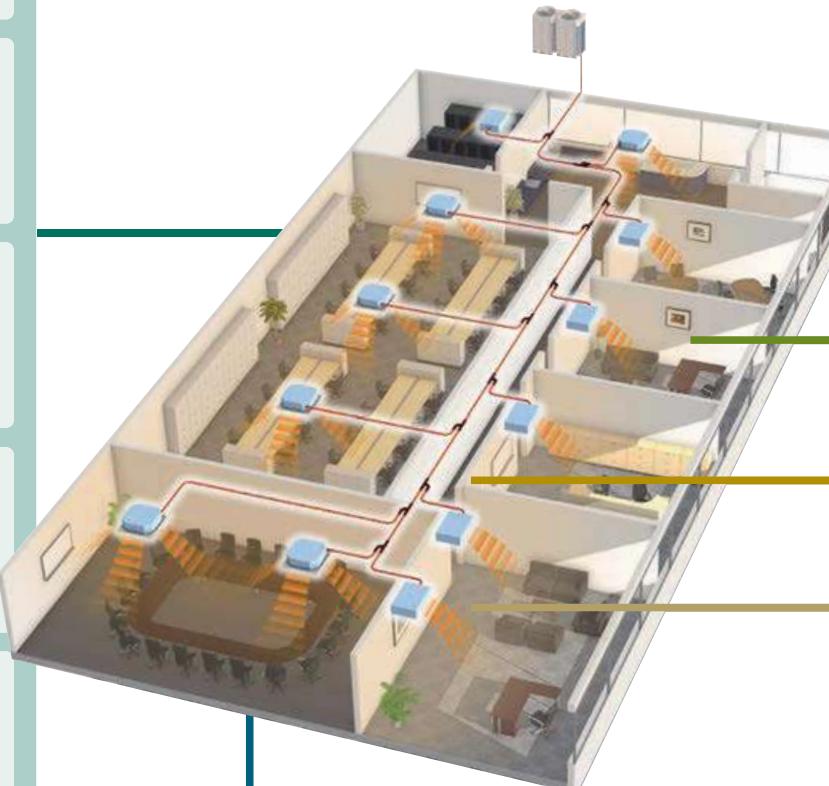
Simple Remote Controller
UTY-RHKY
Without operation mode



Wireless Remote Controller
UTY-LNHY

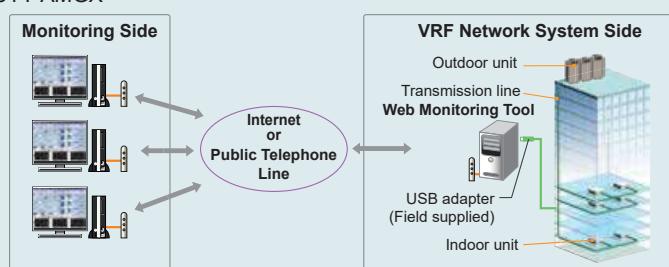


For All AIRSTAGE™ series

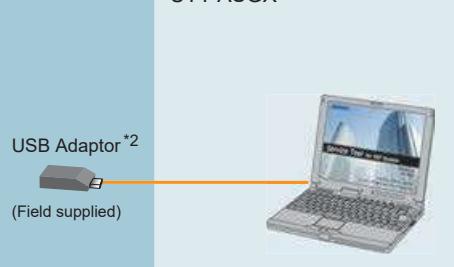


Service & Maintenance Tool

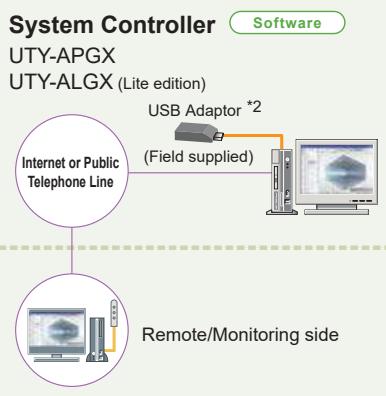
Web Monitoring System Software
UTY-AMGX



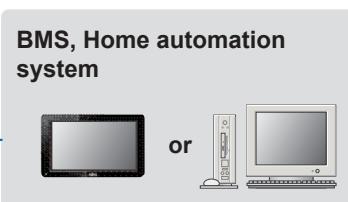
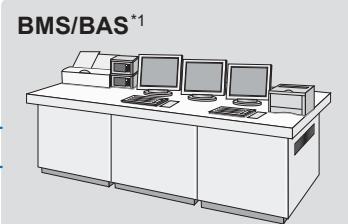
Service Tool Software
UTY-ASGX



Air Conditioning Centralized Control



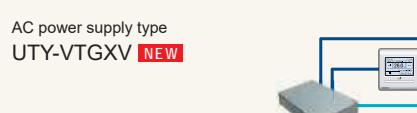
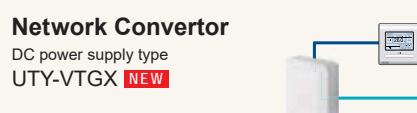
Convertor / Adaptor (for external device)



*1. BMS/BAS: Building Management System/Building Automation System
*2. USB Adaptor: Echelon® U10 USB Network Interface



Convertor / Adaptor (for system expansion)



AIRSTAGE™ SERIES CONTROLLER

Comparison table of Controllers

Item	Wired Remote Controller (Touch panel)	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller *1	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite <small>Software</small>	System Controller <small>Software</small>
Model name	UTY-RNRYZ1	UTY-RLRY	UTY-RSKY	UTY-RHKY	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-ALGX	UTY-APGX
Max. controllable remote controller groups	1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor units	16	16	16	16	16	128	100	400	400	1600
Max. controllable groups	—	—	—	—	—	—	16	400	400	1600
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	●	●	—	—	●	—	●	●	●
	Group setting	—	—	—	—	—	—	●	●	●
	RC prohibition	—	—	—	—	—	—	●	●	●
	Anti freeze setting	●	—	—	—	—	—	●	●	●
	Economy mode setting	●	●	—	—	●	—	●	●	●
	Error	●	●	●	●	—	●	●	●	●
	Defrosting	●	●	●	●	—	—	●	●	●
	Current time	●	●	—	—	●	●	●	●	●
	Day of week	●	●	—	—	—	●	—	●	●
	R.C. prohibition	●	●	●	●	—	●	●	●	●
	Cooling/heating priority	●	●	●	●	—	●	●	●	●
Display	Address display	●	●	●	●	—	●	●	●	●
	Room temp	●	—	—	—	—	—	—	—	—
	Multi language	●	—	—	—	—	—	●	●	●
	Summer time	●	—	—	—	—	—	●	●	●
	Name registration	●	—	—	—	—	—	●	●	●
	Backlight	●	—	●	●	—	—	●	●	—
	2D floor layout / 3D building display	—	—	—	—	—	—	—	—	—
Timer	Period	Week	Week	—	—	—	Week	Week	Year	Year
	Schedule timer	On/off, Temp, Mode, Times per day	8	4	—	—	4	20	20	144
	On/off timer	●	●	—	—	●	—	—	—	—
	Sleep timer	—	—	—	—	●	—	—	—	—
	Program timer	—	—	—	—	●	—	—	—	—
	Auto off timer	●	●	—	—	—	—	—	—	—
	Day off	●	●	—	—	—	—	●	●	●
	Min. unit of timer setting (Minutes)	10 • 30	30	30	30	5	10	10	10	10
	Status monitoring system	—	—	—	—	—	—	●	●	●
	Electricity charge apportionment	—	—	—	—	—	—	—	○	○
Control	Error history	●	●	●	●	—	●	●	●	●
	Emergency stop	—	—	—	—	—	—	● *2	● *2	—
	Remote management	—	—	—	—	—	—	●	○	●
	Energy saving management	—	—	—	—	—	—	—	○	○
	E-mail notification for malfunction	—	—	—	—	—	—	●	●	●
	Key lock	●	●	—	—	—	Child lock	Password setting	Password setting	Password setting
		Child lock	Child lock	—	—	—	Child lock	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.

● : Supported ○ : Optional function
— : Not supported yet

NEW Wired Remote Controller (Touch Panel) : UTY-RNRYZ1

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 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)
- 2-wire type



Max. controllable
16
Indoor units

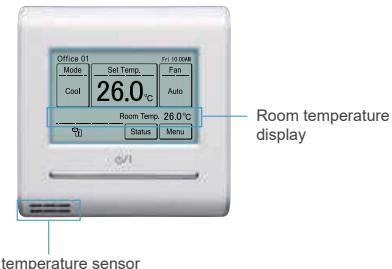
High performance and compact size

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



Accurate and comfortable control

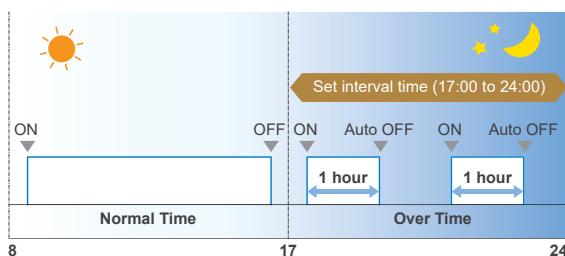
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



Various energy saving control

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

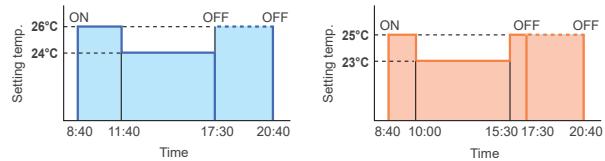


Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

2 schedules Weekly Timer

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

Schedule 1 (Summer schedule) Schedule 2 (Winter schedule)



Set Temperature Auto Return

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

Set Temperature Upper and Lower Limit Setting

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

Specifications

Model name	UTY-RNRYZ1
Power Source	DC 12 V
Dimensions (H x W x D) (mm)	120 x 120 x 20.4
Weight (g)	220

DC12 V is supplied by the indoor unit.

Max.
controllable
16
Indoor units

Wired Remote Controller : UTY-RLRY

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



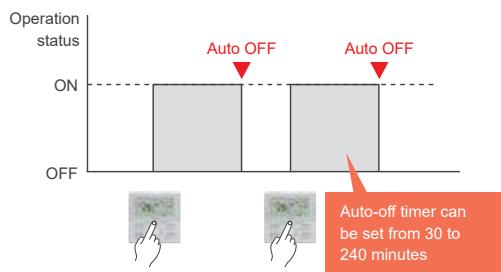
High performance and compact size

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



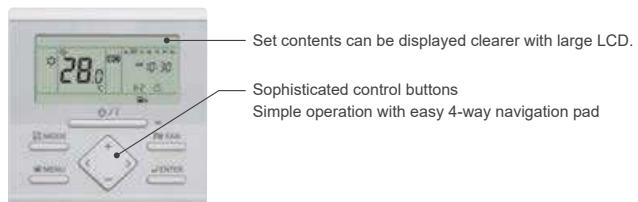
Auto-off timer

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



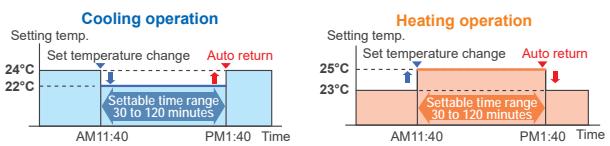
High visibility and easy operation

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



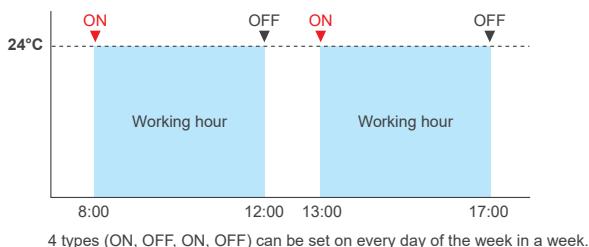
Set temperature auto return

- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 120 minutes.



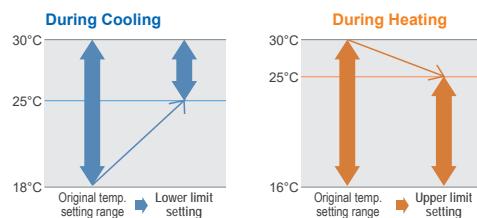
Weekly timer function

- Not only time setting On / Off, but also setting of the operation mode and set temperature can be set by Weekly timer function.



Set temperature upper and lower limit setting

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



Specifications

Model name	UTY-RLRY
Power supply	DC 12V
Dimension (H × W × D) (mm)	120 × 120 × 17
Weight (g)	170

* DC12V is supplied by indoor unit.

Max.
controllable
16
Indoor units

Simple Remote Controller :

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

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- 3-wire type



Easy-to-use operation

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

Backlight

- Backlight enables easy operation in a darkened room.
- Backlight activates during all button operations, and lasts 10 seconds in Operation mode and 5 seconds in stop mode after a button is pressed.



Simple installation

Can be mounted on the European Mounting Box (Installation dimension: 60mm) or the JIS Built-in Box (Installation dimension: 83.5mm).



Functions

Model	UTY-RSKY	UTY-RHKY
Operation		
On / Off	●	●
Fan control	●	●
Operation mode	●	— *1
Room temp. setting	●	●

*1: "Operation mode" setting is not available. It is recommended to use together with other type controller.

Specifications

Model name	UTY-RSKY	UTY-RHKY
Power Source	DC 12 V	DC 12 V
Dimensions (H x W x D) (mm)	120 x 75 x 14	120 x 75 x 14
Weight (g)	90	90

DC12 V is supplied by the indoor unit.

Wireless Remote Controller : UTY-LNHY



Max. controllable
16 Indoor units

Selectable
4 daily timers

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

Select from 4 different timer programs:

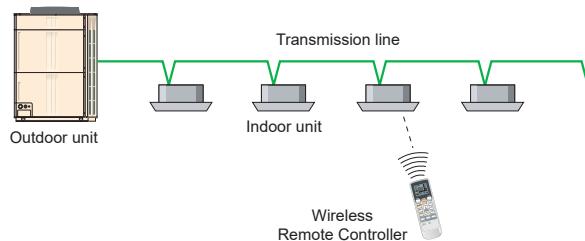
On / Off / Program / Sleep

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.

System addressing

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



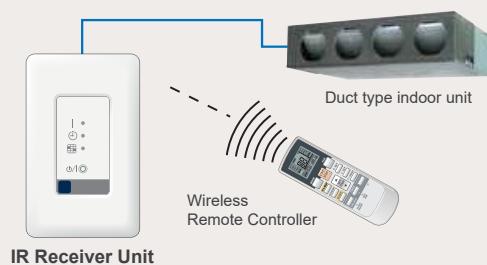
Easy installation and operation

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

• Wide and precise transmitting range.

IR Receiver Unit : UTB-YWC

Necessary to control for all duct type by Wireless Remote Controller



IR Receiver Unit : UTY-LRHYB1

Cassette type indoor unit can be controlled with Wireless Remote Controller



Specifications

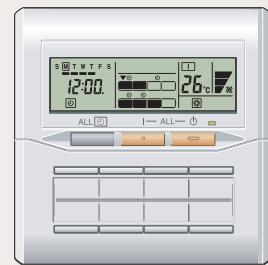
Model name	UTY-LNHY	UTB-YWC	UTY-LRHYB1
Battery	1.5 V (R03 / LR03 / AAA) x 2	DC 5 V	DC 5 V
Dimensions (H x W x D) (mm)	170 x 56 x 19	145 x 90 x 30	193.9 x 193.9 x 31.2
Weight (g)	85	150	140

DC12 V is supplied by the indoor unit.

Group Remote Controller : UTY-CGGY

Group control of indoor units with simple operation

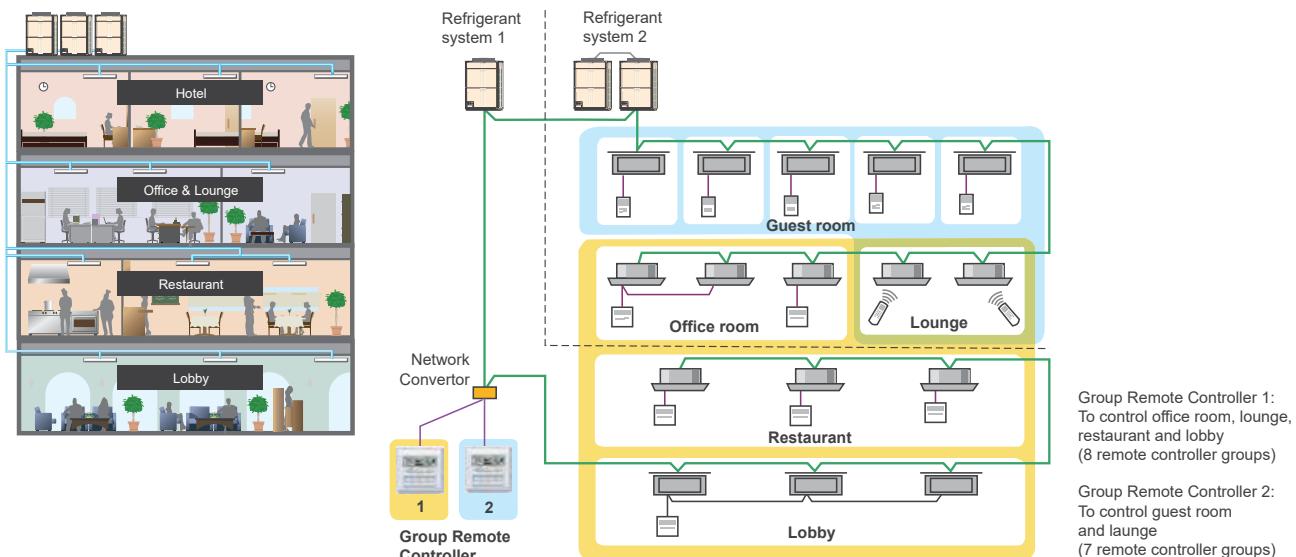
- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Convertor is required to connect Group Remote Controllers to a VRF network system. (Network Convertor allows up to 4 Group Remote Controllers)
- 3-wire type



Max. controllable
8 remote controller groups
Max. controllable
64 group R.C. in a VRF network system

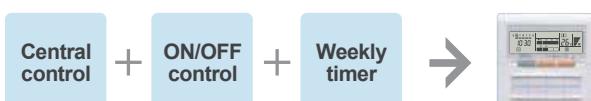
Control up to 8 remote controller groups

- Single Group Remote Controller controls and monitors up to 8 remote controller groups.



High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.



Built-in weekly timers

The weekly timer is provided as a standard function.

- The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
- Allows separate settings for each day of the week.

Specifications

Model name	UTY-CGGY
Power Supply	DC 12 V
Dimensions (H x W x D) (mm)	120 x 120 x 18
Weight (g)	200

DC12 V is supplied by the indoor unit.

Central Remote Controller : UTY-DCGY

Central Remote Controller fits small- and medium-sized buildings and tenants.

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- High visibility and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.
- 2-wire type

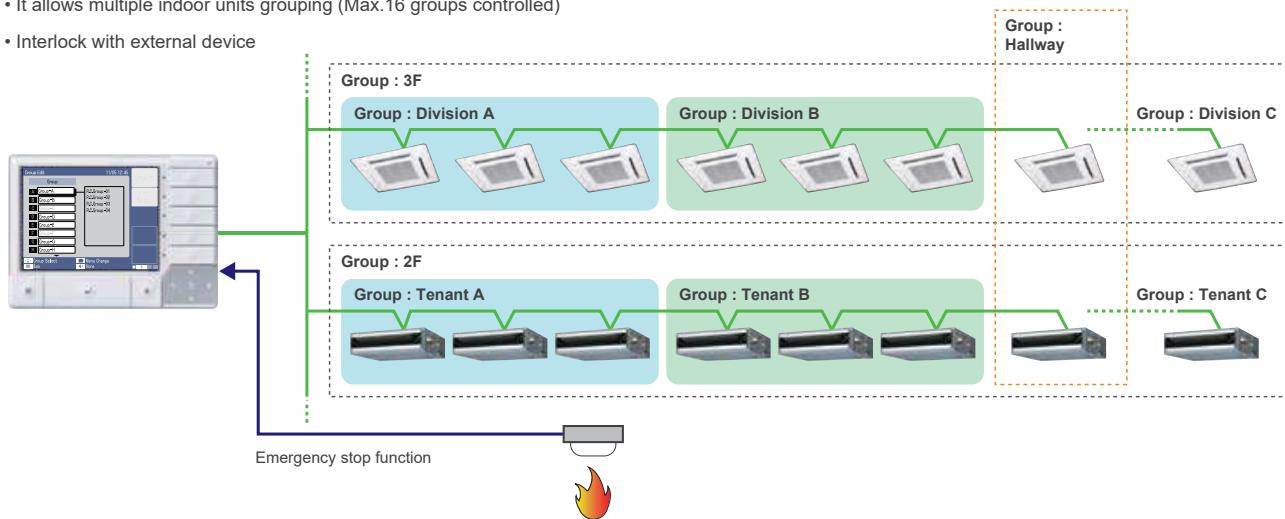


Max. controllable
100
Indoor units

Max. controllable
16
groups

System overview

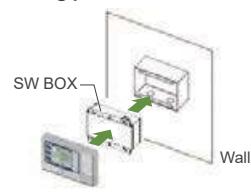
- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



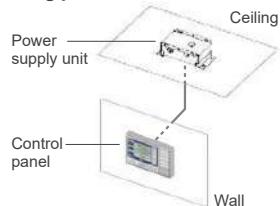
Easy Installation

- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.

Setting pattern 1



Setting pattern 2



Functions

- Diverse control of indoor units
- Weekly timer
- Automatic clock adjustment
- Error history

Specifications

Model name	UTY-DCGY	
	Control Panel	Power Supply Unit
Power Supply	DC 5 V	100-240 V, 50-60Hz, Single phase
Dimensions (H x W x D) (mm)	120 x 162 x 25.7	99 x 135 x 39.2
Weight (g)	308	355

<PACKING LIST>

Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.
--------------	--

NEW Touch Panel Controller : UTY-DTGYZ1

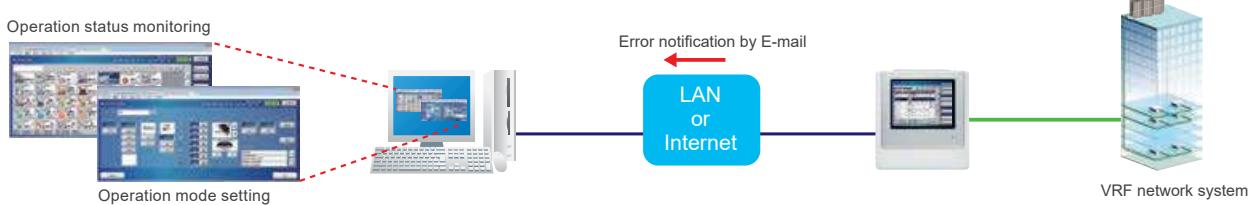
- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- No additional component is required for installation
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.



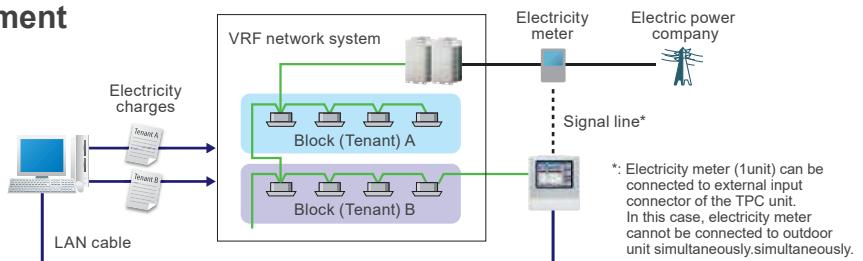
Max. controllable 400 Indoor units
Max. controllable 100 outdoor units
Max. controllable 400 groups

Diverse operation management**Remote monitoring and operation**

- Air conditioner can be monitored and controlled via LAN from PC.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.

**Electricity charge apportionment
(Option: UTY-PTGXA)**

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

**Easy installation**

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

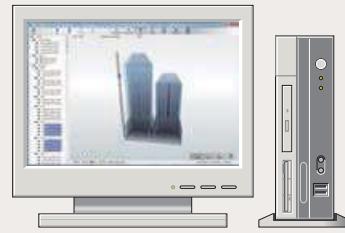
**Specifications**

Model name	UTY-DTGYZ1	UTY-PTGXA
Power Supply	100-240 V 50/60Hz, Single phase	DC 5V (USB Bus power)
Dimensions (H x W x D) (mm)	260 × 246 × 54	62 × 17 × 10
Weight (g)	2,150	9
Interface	Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW	USB

System Controller : UTY-APGX Software

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

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)



Max. controllable 4 VRF network systems
Max. controllable 400 outdoor units
Max. controllable 1,600 indoor units

System Controller Lite : UTY-ALGX Software

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

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

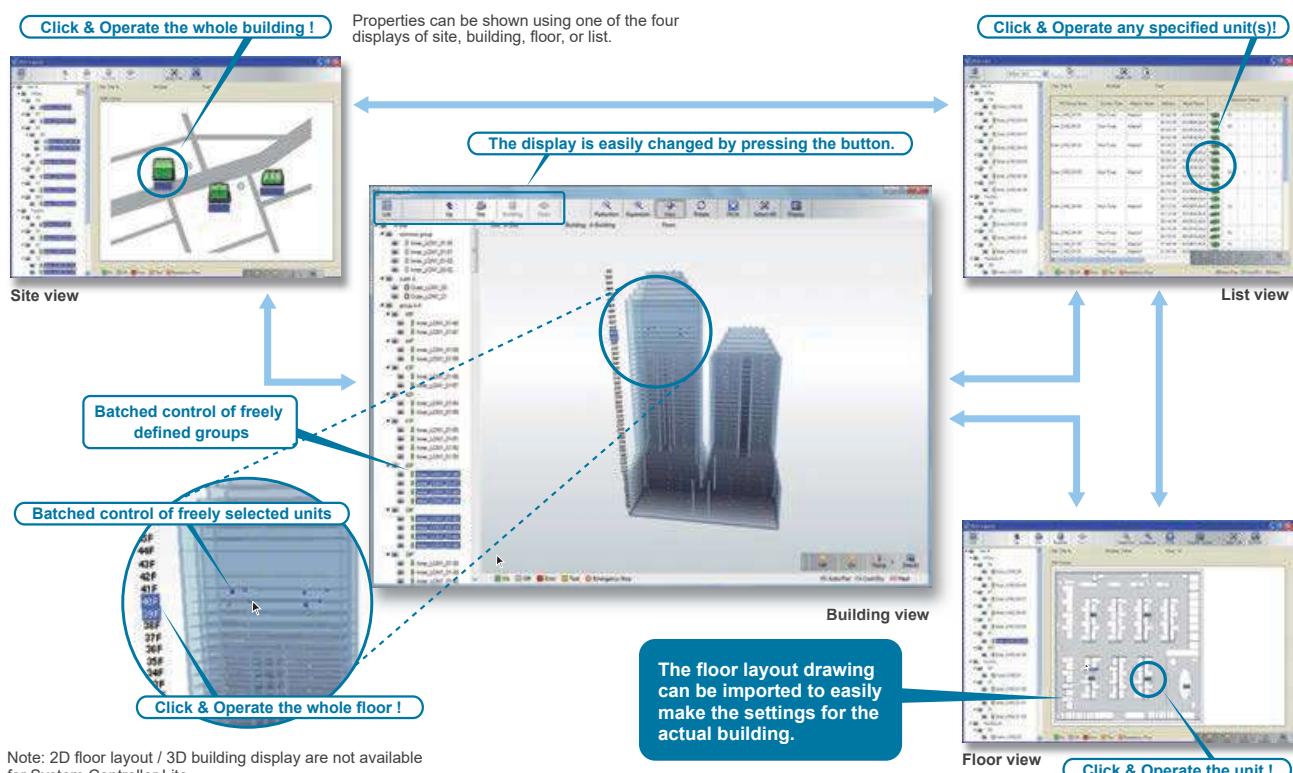


Max. controllable 1 VRF network systems
Max. controllable 100 outdoor units
Max. controllable 400 indoor units

High visibility and Easy operation

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

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



Diverse operation management & Data management

Standard

for System Controller and System Controller Lite

Schedule management

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



Diverse control of indoor unit and outdoor unit

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



Remote controller prohibition

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



Electricity charge apportionment

Standard

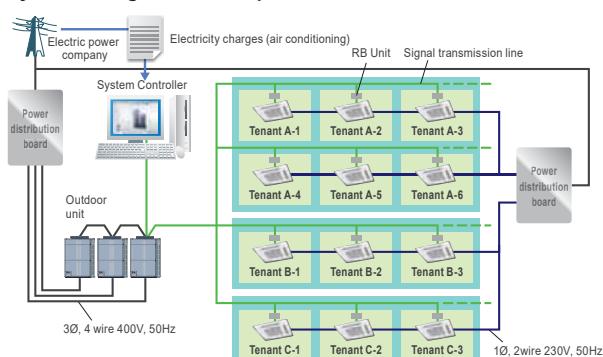
Option

for System Controller

for System Controller Lite UTY-PLGXA1

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

System Configuration Example



Error display & E-mail notification

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



Operating & control record

Displays the history of operation status and control.



Data base import/export

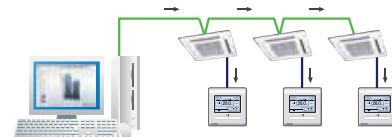
Imports/exports registration data, layout data, and image data.

Only the administrator can make this setting.



Automatic clock adjustment

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



Energy used by each unit is calculated

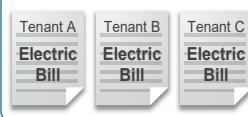


Energy apportioned by the outdoor unit to each indoor unit is calculated



Electricity charges by tenant are calculated

The distribution ratio for energy used by each indoor unit is calculated and the electricity charges for the energy used by each indoor unit are calculated from the total electricity charges.



The energy used by each indoor unit and the energy apportioned by the outdoor unit are added together to calculate the total amount of energy used.



AIRSTAGE™ SERIES CONTROLLER

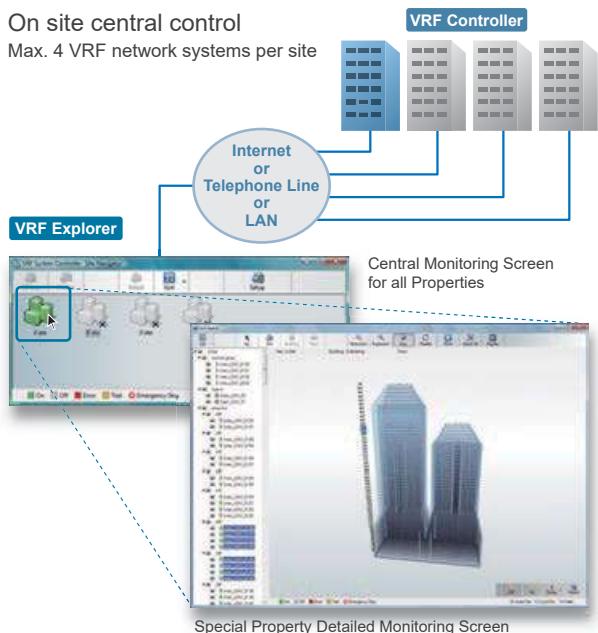
Remote management

Standard for System Controller
Option for System Controller Lite UTY-PLGXR1

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

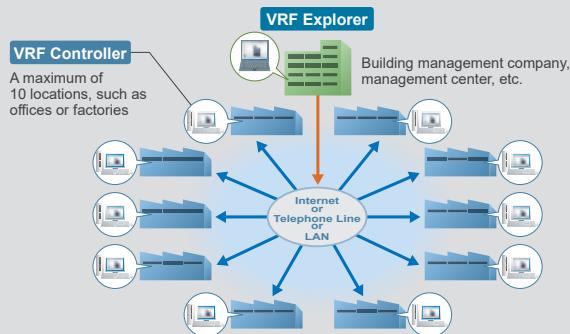
On site central control

Max. 4 VRF network systems per site

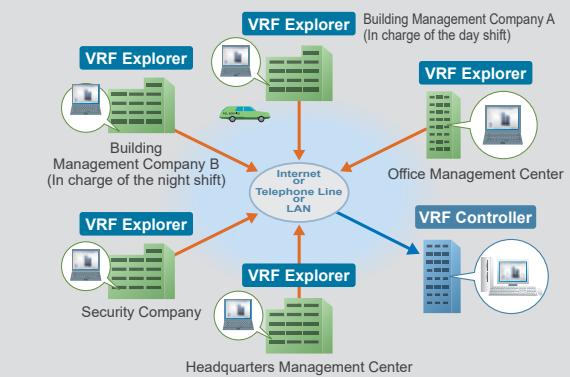


Remote central control

1 VRF Explorer can control or monitor up to 10 sites.



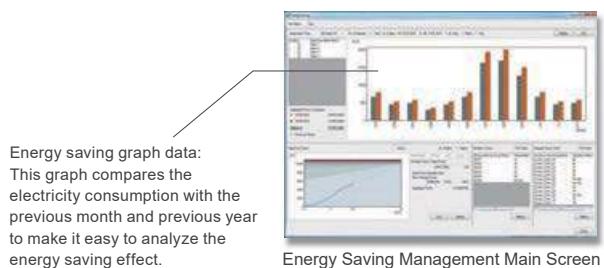
1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).



Energy saving management

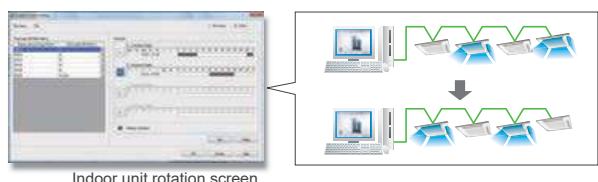
Option for System Controller UTY-PEGX
Option for System Controller Lite UTY-PLGXE1

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



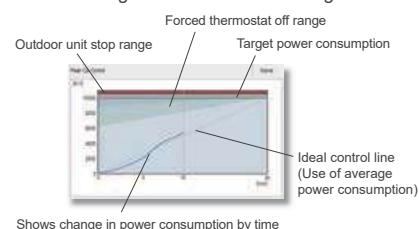
Indoor unit rotation operation

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



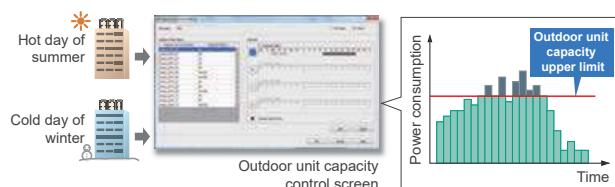
Peak cut operation

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



Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.



FUNCTIONS SUMMARY

Function	Type	System controller		System controller lite			
		UTY-APGX	(Option) UTY-PEGX	UTY-ALGX	(Option) UTY-PLGXR1	(Option) UTY-PLGXA1	(Option) UTY-PLGXE1
System specification	Max. VRF networks supported	4	-	1	-	-	-
	Max. indoor unit / remote controller groups per VRF network	400	-	400	-	-	-
	Max. outdoor units per System controller	100	-	100	-	-	-
	Max. indoor units / remote controller groups per System controller	1600	-	400	-	-	-
	Max. outdoor units per System controller	400	-	100	-	-	-
Site supervision	Multi site display	10	-	10	-	-	-
	Number of building / 1 site	20	-	-	-	-	-
	Number of floor per 1 site	200	-	-	-	-	-
	Number of floor per 1 building	50	-	-	-	-	-
	3D graphical layout view	○	-	-	-	-	-
	2D graphical layout view	○	-	-	-	-	-
	List display	○	-	○	-	-	-
	Tree display	○	-	○	-	-	-
	Group display	○	-	○	-	-	-
	Error notification	○	-	○	-	-	-
Error management	Audible alarm	○	-	○	-	-	-
	Error e-mail notification	○	-	○	-	-	-
	Error history	○	-	○	-	-	-
History	Operation history	○	-	○	-	-	-
	Control history	○	-	○	-	-	-
Operation control	Individual control	On/Off	○	-	○	-	-
		Operation mode	○	-	○	-	-
		Room temperature	○	-	○	-	-
		Fan speed	○	-	○	-	-
		Air flow direction	○	-	○	-	-
		Economy mode	○	-	○	-	-
		Room temperature set point limitation	○	-	○	-	-
		Test operation	○	-	○	-	-
		Antifreeze	○	-	○	-	-
		Outdoor unit low noise setting	○	-	○	-	-
	Individual management	Remote control prohibition setting	○	-	○	-	-
		Temperature upper and lower limit setting	○	-	○	-	-
		Filter sign reset	○	-	○	-	-
	Other	Memory operation	○	-	○	-	-
		Pattern operation	○	-	○	-	-
Schedule	Annual Schedule	○	-	○	-	-	-
	Special day setting	○	-	○	-	-	-
	On / off per day	72	-	72	-	-	-
	On / off per week	504	-	504	-	-	-
	Day off	○	-	○	-	-	-
	Min. unit of timer setting (Minutes)	10	-	10	-	-	-
Remote management	Low noise mode Weekly schedule	○	-	○	-	-	-
	Remote monitoring	○	-	-	○	-	-
	Remote operation control	○	-	-	○	-	-
Electricity charge apportionment	Remote function setting	○	-	-	○	-	-
	Apportionment charge/bill calculation	○	-	-	-	○	-
	Tenant (block) setting	○	-	-	-	○	-
	Common facilities apportionment setting	○	-	-	-	○	-
	Rated power consumption allotment setting	○	-	-	-	○	-
Energy saving management	Individual calculation at cooling and heating	-	○*	-	-	○	-
	Electricity meter supported	-	○	-	-	○	-
	Indoor unit rotation	-	○	-	-	-	○
	Peak cut control	-	○	-	-	-	○
	Outdoor unit capacity save	-	○	-	-	-	○
Others	Record of energy saving operation	-	○	-	-	-	○
	Energy saving information	-	○	-	-	-	○
	Power consumption monitor	-	○	-	-	-	○
Others	Electricity meter supported	-	○	-	-	-	○
	Database import/export	○	-	○	-	-	-
	Automatic clock adjustment	○	-	○	-	-	-
	Multi language	7 languages	-	7 languages	-	-	-

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

○: Available. - : Not available.

Personal computer system requirements

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 5 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	
Optical drive	DVD-ROM drive	

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

PACKING LIST

Type	For System controller		For System controller Lite			
	System Controller	(Option) Energy manager	System Controller Lite	(Option)	Remote access	Electricity charge apportionment
Model name	UTY-APGX	UTY-PEGX	UTY-ALGX	UTY-PLGXR1	UTY-PLGXA1	UTY-PLGXE1
DVD-ROM	1	1	1	—	—	—
WibuKey*1(Software protection key)	1	1	1	1	1	1

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

System Controller or System Controller Lite may only run on a PC with Wibu Key. However, WibuKey is not required for remote VRF Explorer software.

AIRSTAGE™ SERIES ADAPTOR & CONVERTOR

BACnet® Gateway : UTY-ABGX Software

- 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-135-2004) 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.



DVD-ROM
(Software)



Software
Protection Key



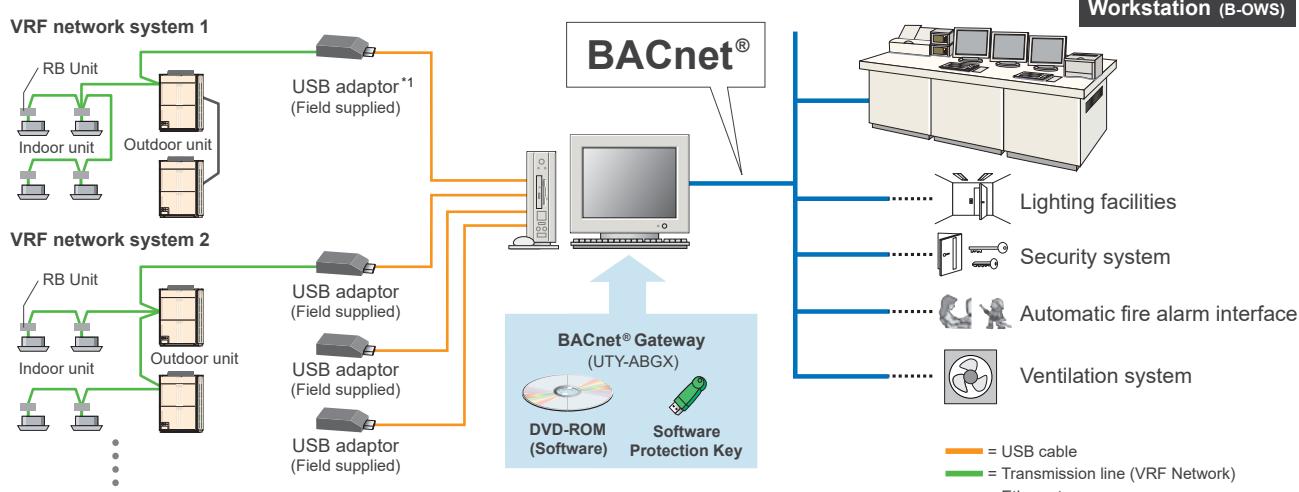
BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to requirements of ASHRAE Standard 135 is the responsibility of the BACnet International. BTL is a registered trademark of the BACnet International.

Max.
controllable
4
VRF network
systems

Max.
controllable
400
outdoor units

Max.
controllable
1,600
indoor units

Installation example



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

Personal computer system requirements

UTY-ABGX	
Operating system	<ul style="list-style-type: none"> Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 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) <p>[Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish</p>
CPU	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> 2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) USB ports (Maximum of 5 ports) <ul style="list-style-type: none"> - 1 USB port is required for 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
Optical drive	DVD-ROM drive

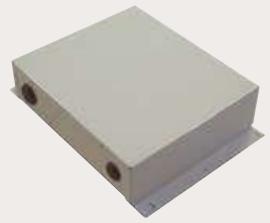
<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals for BACnet® Gateway.
WibuKey (Software protection key)	1	Software protection key to be connected to USB port on the BACnet®-installed PC. BACnet® Gateway runs only on a PC with WibuKey.

*Personal computer that satisfies the following system requirements

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

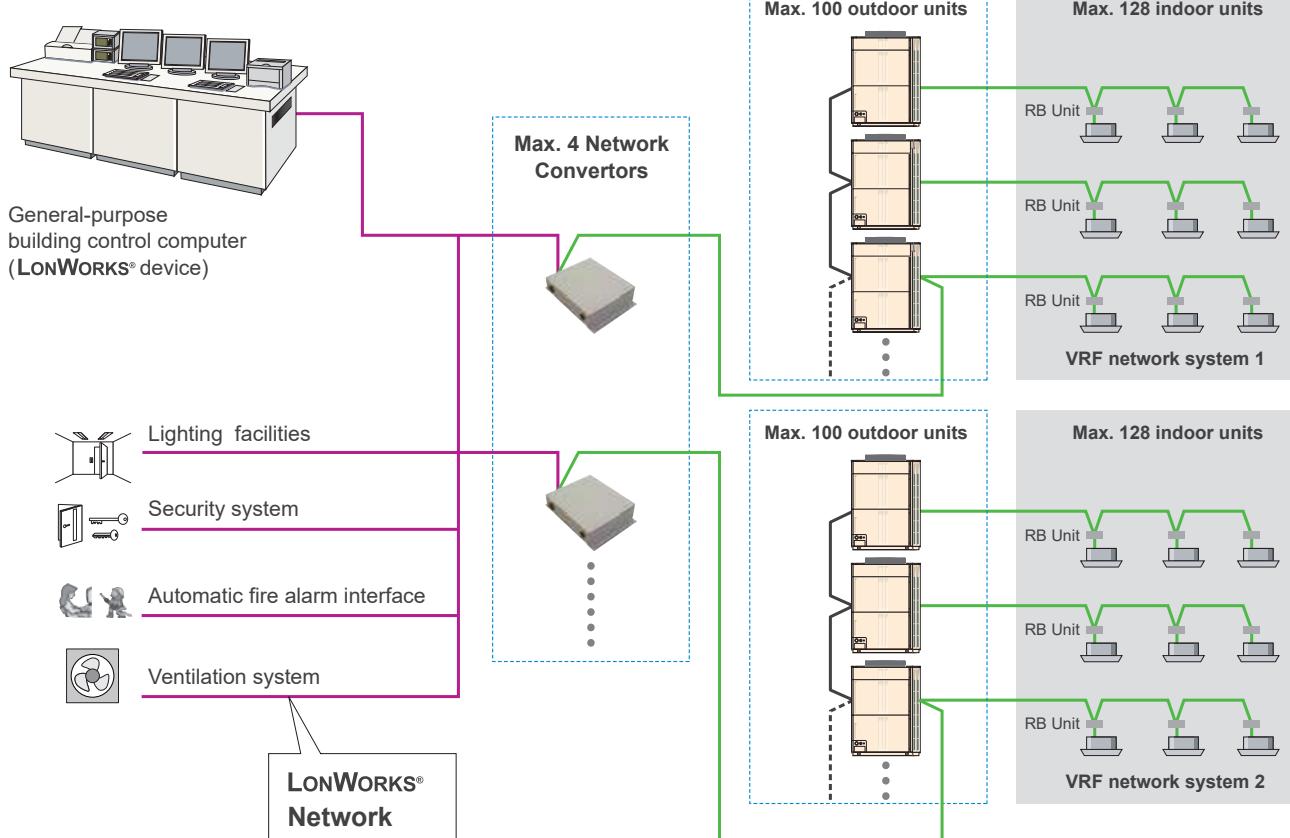
Network Convertor for LonWORKS® : UTY-VLGX



Max. controllable 4 units to BMS
Max. controllable 100 outdoor units
Max. controllable 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 Convertor for LonWORKS®

Installation example



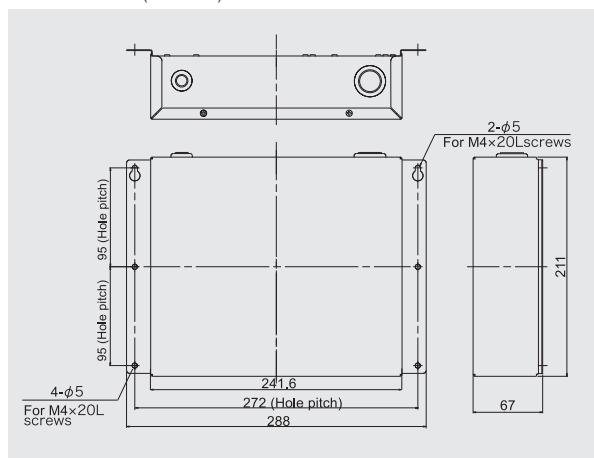
Specifications

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 x 288 x 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.)

Dimensions (Unit : mm)



AIRSTAGE™ SERIES ADAPTOR & CONVERTOR

External Switch Controller : UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

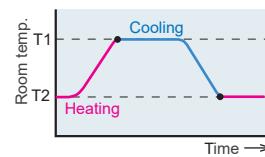
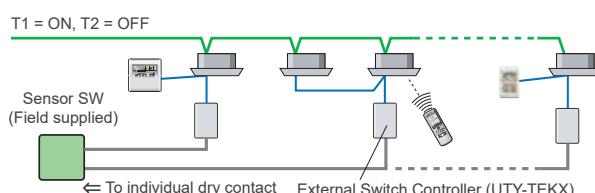
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a field supplied parts.



Installation example

Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.

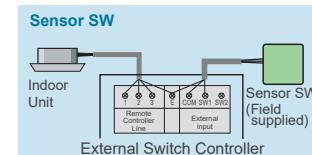
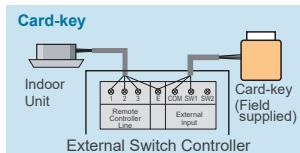
Note: All indoor units will operate in the same mode.



Note 1.
Please choose a thermosensor switch which can be set up for T1 and T2.

Note 2.
The remote controller's operation is prior to the auto mode operation.

Electrical wiring

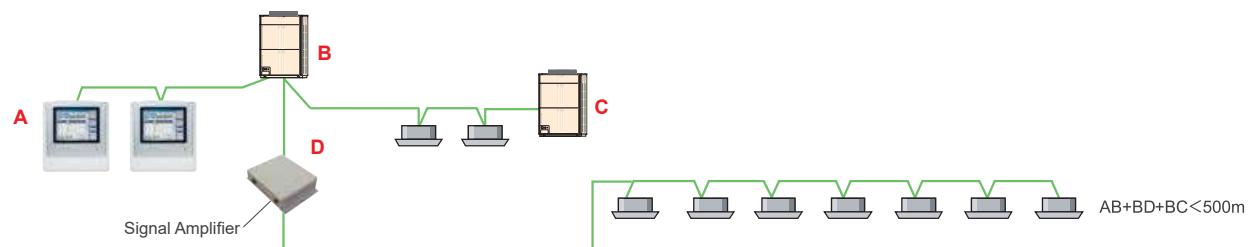


Signal Amplifier : UTY-VSGXZ1



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

Installation example



Specifications

Model name	UTY-TEKX
Power Supply	DC 12V
Dimensions (H x W x D) (mm)	120 x 75 x 30
Weight (g)	100
DC12V is supplied by the indoor unit.	

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

Network Convertor : UTY-VGGXZ1

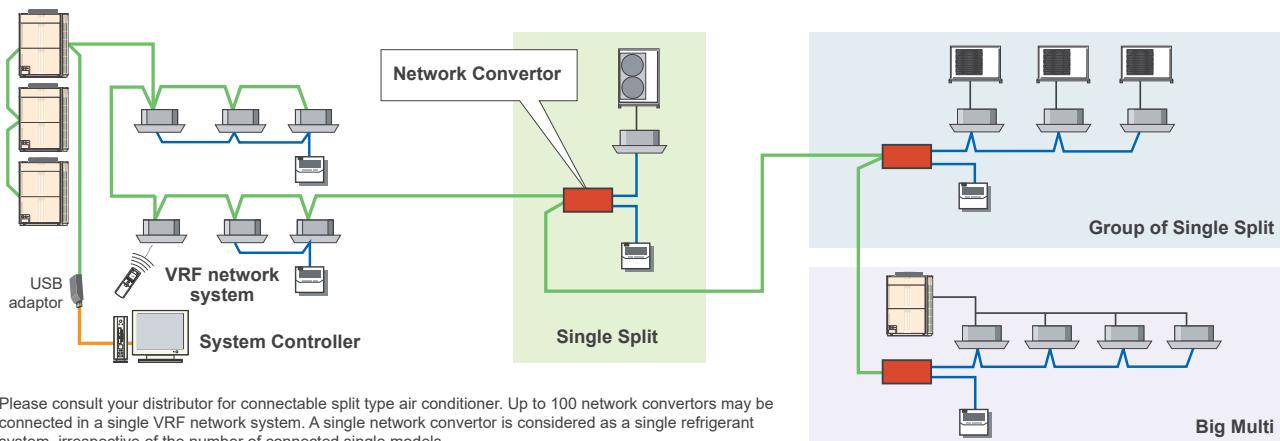
Max. controllable
16
Network Convertor units

Max. controllable
4
Group Remote Controllers

- This network convertor is to be used for connecting single split system or group remote controller with the VRF network system.
- Please select the function by switching the dip switch during the installation.

Installation example

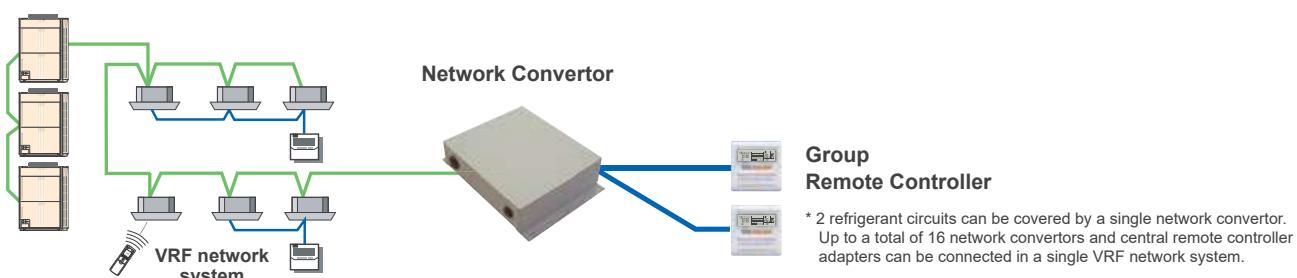
- Split type systems can be controlled from a central remote controller or PC controller through connection to the VRF's network convertor.
- Standard remote controller and central remote controller provide On / Off control, master control, temperature and fan control, etc.
- A single network convertor can be used to connect and control up to 16 single units.



Please consult your distributor for connectable split type air conditioner. Up to 100 network convertors may be connected in a single VRF network system. A single network convertor is considered as a single refrigerant system, irrespective of the number of connected single models.

Used for connecting Group Remote Controller

4 group remote controllers can be connected to a single Network convertor.

**Specifications**

Model name	UTY-VGGXZ1
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	6.5
Dimensions (H x W x D) (mm)	67 x 288 x 211
Weight (g)	1,500

AIRSTAGE™ SERIES ADAPTOR & CONVERTOR

- NEW Network Convertor : UTY-VTGX (DC power supply type)**
NEW Network Convertor : UTY-VTGXV (AC power supply type)



UTY-VTGX
DC power supply type



UTY-VTGXV
AC power supply type

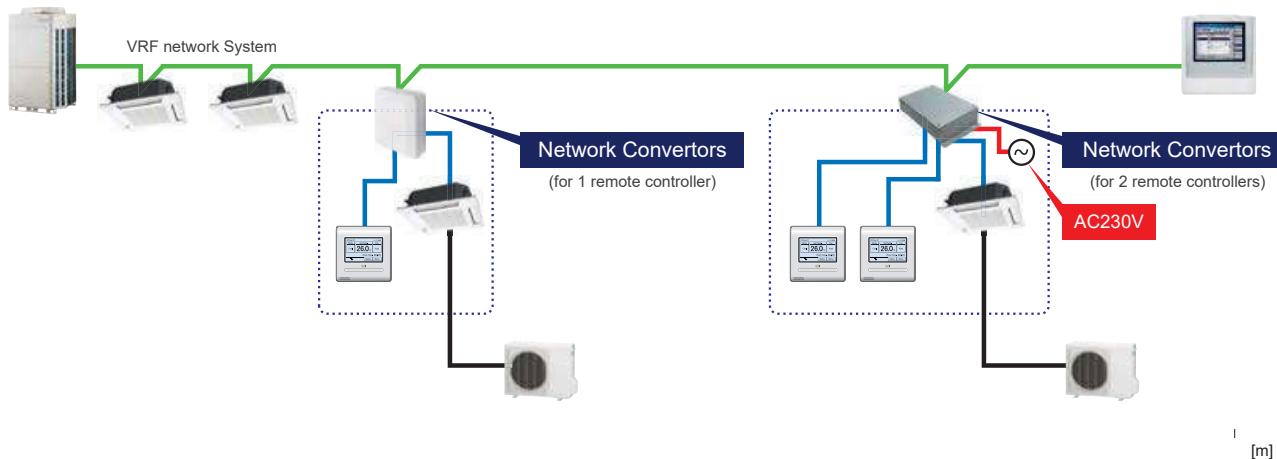
Max. controllable
16
single indoor units

Max. controllable
100
Network Convertors

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

Installation example

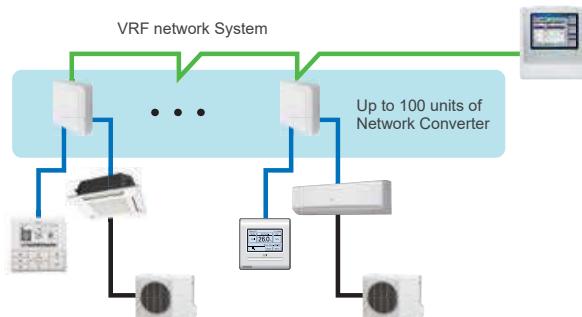
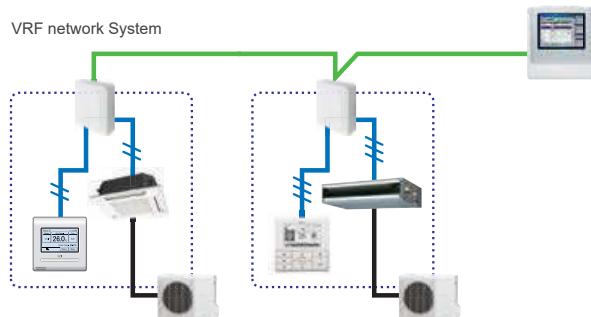
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



[m]

- 2-wire and 3-wire type of the wired remote controller can be connectable.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.

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



Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power Supply	polar 3-wire DC12V	non-polar 2-wire DC12V	220-240V 50/60Hz, Single phase
Input power (W)	Max. 1.2		Max. 3
Dimensions (H x W x D) (mm)	43 x 117 x 140		54 x 260 x 150
Weight (g)	250		1,100



NEW MODBUS® Convertor : UTY-VMGX

The MODOBUS Convertor 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 Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.

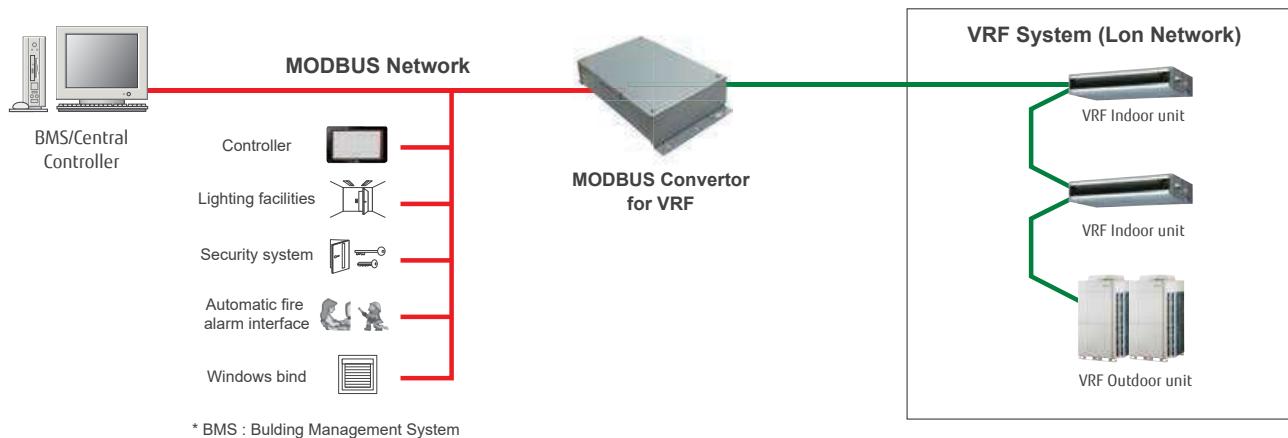


Max. connectable
9
units to one VRF

Max. controllable
100
outdoor units

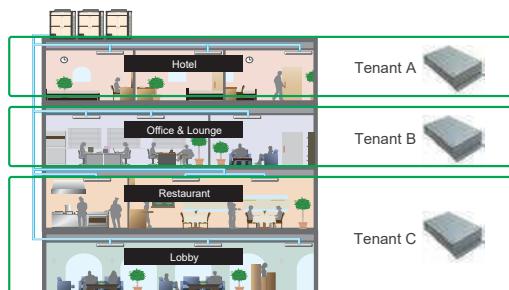
Selectable
128
indoor units

The Solution for integrating VRF Systems into small and medium sized buildings by Modbus method.



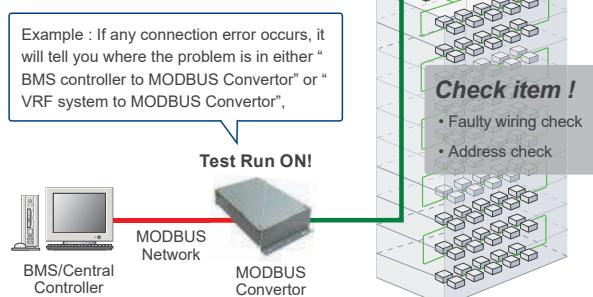
Connectable MAX 9

Up to 9 convertors can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.



Traceability of sources of connection error

It is easy to locate the source of error if any connection errors should occur after completion of installation works.



Specifications

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

Service Tool : UTY-ASGX Software

Extensive monitoring and analysis functions for installation and maintenance

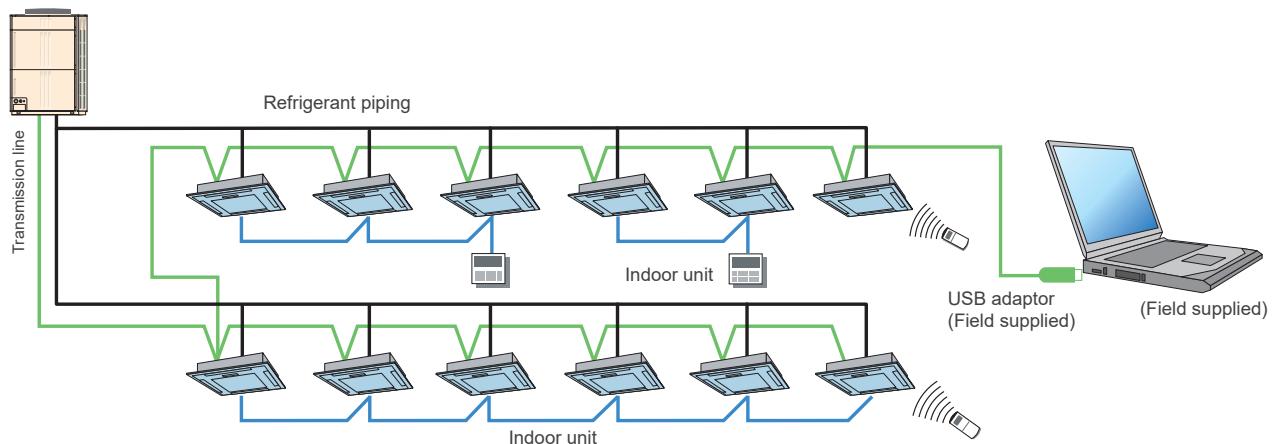
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (field supplied).



Max. Monitor and controll
100
outdoor units

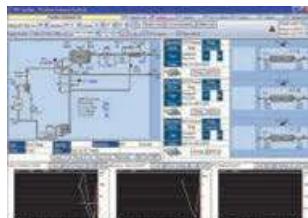
Max. Monitor and controll
400
indoor units

Wiring connection



Functions

• Equipment Detail (Diagram)



- Equipment Detail (List)
- Error History
- Remote File Download
- System List
- Commissioning Tool

Personal computer system requirements

	UTY-ASGX
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • 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 Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	10 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> • 2 USB ports <ul style="list-style-type: none"> - 1 USB port is required for WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface
Software	Internet Explorer® 8, 9, 10 or 11 / Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals
WibuKey (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

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

Web Monitoring Tool : UTY-AMGX Software

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

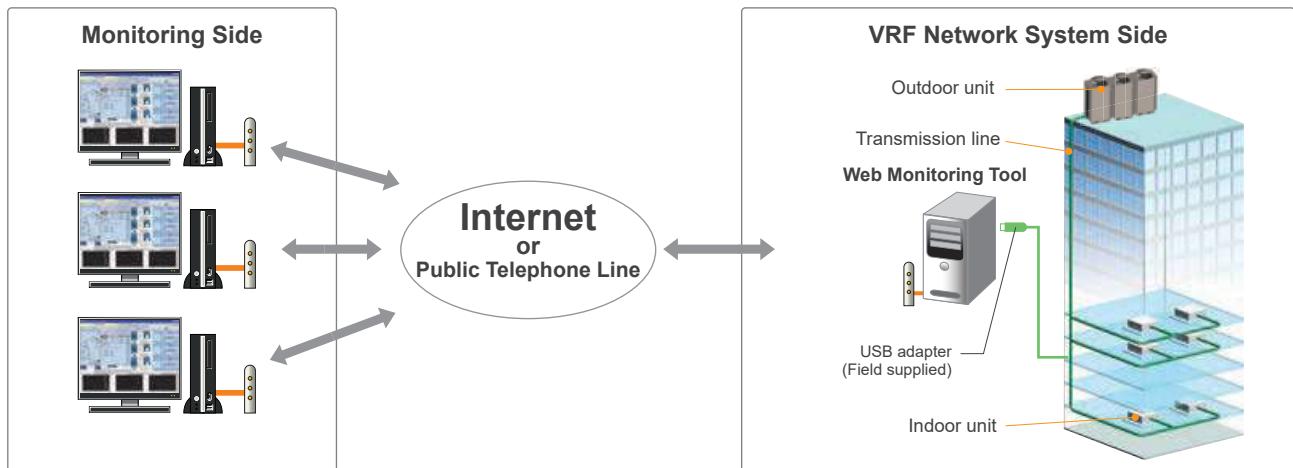
*1: Use of internet mail system required.

VRF network system can be supported
4

Max. Monitor
400
outdoor units

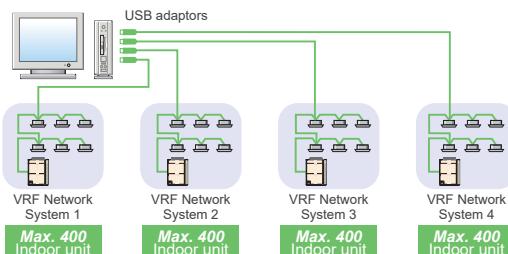
1,600
indoor units
can be supported

Web Monitoring System



Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit monitoring of up to 1,600 indoor units.
Suitable for large-scale buildings or hotels.



Personal computer system requirements

	UTY-AMGX
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • 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 Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> • Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 5 ports) <ul style="list-style-type: none"> - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface <p>* Maximum number of required USB ports depends on the applicable system configurations.</p>
Software	Internet Explorer® 8, 9, 10 or 11 / Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

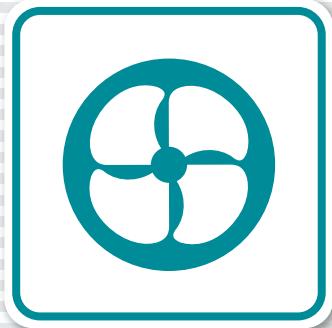
<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals
Wibu Key (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

• Personal computer that satisfies the following system requirements

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

VENTILATION



- 059 ENERGY RECOVERY VENTILATOR
- 061 OUTDOOR AIR UNIT
- 063 DX-kit FOR AIR HANDLING APPLICATIONS

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."

VENTILATION LINEUP

Airflow rate (m³/h)	250	350	500	800	1000	1500	2000
Energy Recovery Ventilator Page 036							
Outdoor Air Unit Page 038							
Connectable Capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0
DX-Kit for air handling applications Page 040	 EEV unit UTP-VX30A	 Control unit UTY-VDGX		 EEV unit UTP-VX60A	 Control unit UTY-VDGX	 EEV unit UTP-VX90A	 Control unit UTY-VDGX
				 EEV unit UTP-VX90A × 2	 Control unit UTY-VDGX		

ENERGY RECOVERY VENTILATOR

UTZ-BD025B / UTZ-BD035B / UTZ-BD050B / UTZ-BD080B / UTZ-BD100B

Energy recovery ventilator unit offers maximum comfort and greater energy savings.



UTZ-BD025B

UTZ-BD035B

UTZ-BD050B



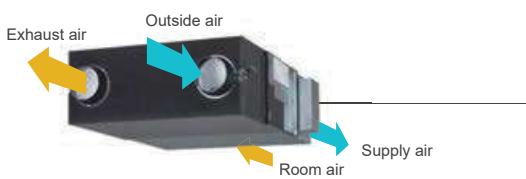
UTZ-BD080B



UTZ-BD100B

Features

Adopts a highly efficient counter-flow heat exchange element



Heat exchange ventilation and normal ventilation

Heat exchange ventilation

When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

Normal ventilation

The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

High Efficiency

Energy efficiency and ecology

Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

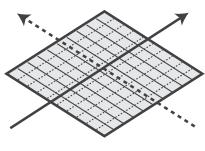
20%
Energy saving

More Comfort

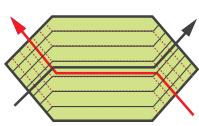
Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation.

Features of heat exchange element



Other element
(Cross-flow element)



Fujitsu element
(Counter-flow element)

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged.

Design Flexibility

Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety of buildings.

Features

Easy Installation and Maintenance

Slim shape and easier installation

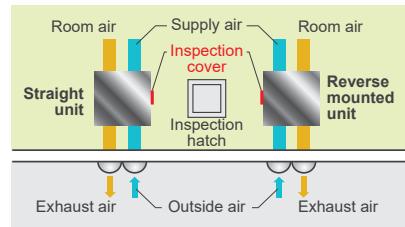
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.

Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



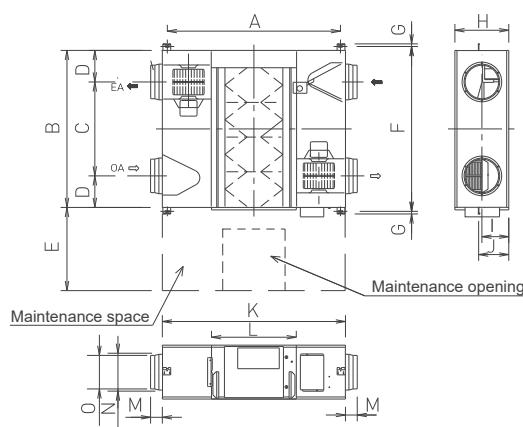
Specifications

Rated flow rate			250 m³/h	350 m³/h	500 m³/h	800 m³/h	1000 m³/h
Model No.			UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B
Power source							
Heat Exchange Ventilation	Input power	(Extra high)/High/Low W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700
	External static pressure	(Extra high)/High/Low Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Temperature Exchange Efficiency	(Extra high)/High/Low %	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low %	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low %	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76
	Sound pressure level	(Extra high)/High/Low dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37 / 34.5	38.5 / 37.5 / 34.5
Normal Ventilation	Input power	(Extra high)/High/Low W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700
	External static pressure	(Extra high)/High/Low Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Sound pressure level	(Extra high)/High/Low dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	38.5 / 38 / 32.5	37.5 / 37 / 34.5	40.5 / 39.5 / 36.5
Dimensions	W×D×H		882 x 599 x 270	1050 x 804 x 317	1090 x 904 x 317	1322 x 884 x 388	1322 x 1134 x 388
Weight	kg		29	49	57	71	83
Outlet duct diameter	mm		150	150	200	250	250
Operation range	°C		-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40
Maximum humidity	%		85	85	85	85	85

* The noise level must be measured 1.5 m below the centre of the unit.

Dimensions Models : UTZ-BD025B / UTZ-BD035B / UTZ-BD050B / UTZ-BD080B / UTZ-BD100B

(Unit : mm)



	UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B
A	810	978	1018	1250	1250
B	599	804	904	884	1134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1050	1090	1322	1322
L	414	470	470	612	612
M	95	70	127	85	85
N	219	162	210	258	258
O	144	144	194	242	242

OUTDOOR AIR UNIT

ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

Production by order

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



ARXH054GTAH



ARXH072GTAH

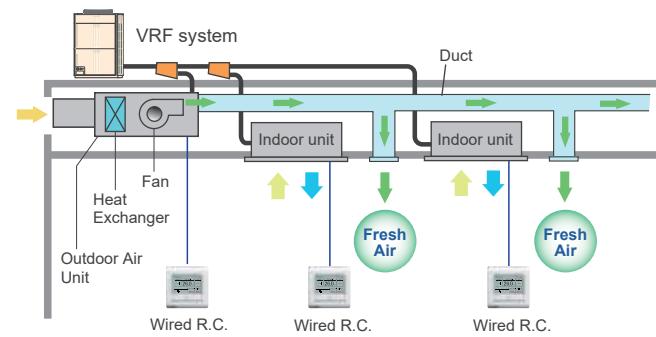
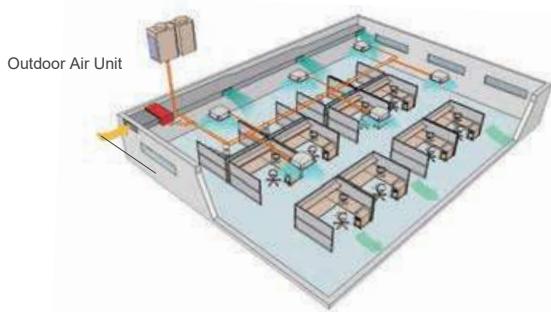


ARXH096GTAH

Features

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

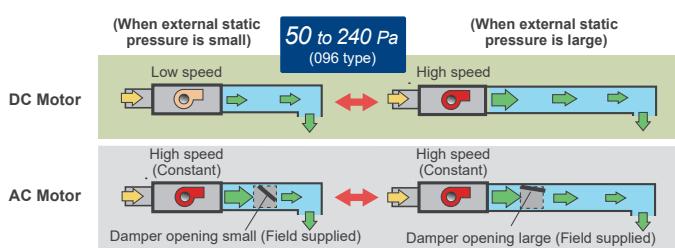
Outdoor Air Unit can be connected in a same VRF^{*1} system as one of indoor unit series and can create fresh and comfortable air supply together from our high advanced technology.



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

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.



Features

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.

Specifications

(Tentative)

Model name		ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power Source	V/Ø/Hz	230/1/50	230/1/50	230/1/50
Capacity	Cooling kW	14.0	22.4	28.0
	Heating kW	8.9	13.9	17.4
Input Power	Cooling/Heating W	179	292	370
Airflow Rate	m³/h	1,080	1,680	2,100
Static Pressure	Standard (range) Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound Pressure Level	dB (A)	42	44	47
Dimensions (H x W x D)	mm	425x1,367x572	425x1,367x572	450x1,583x700
Weight	kg	48	55	71
Connection Pipe Diameter (Small / Large)	mm	Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22
Operation Range	Cooling °CDB	5 to 43	5 to 43	5 to 43
	Heating °CDB	-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.

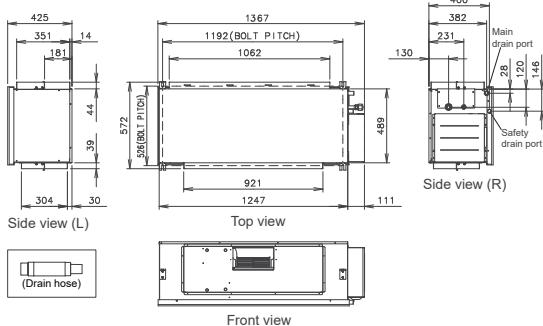
Pipe length : 7.5 m Voltage : 230 [V].

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

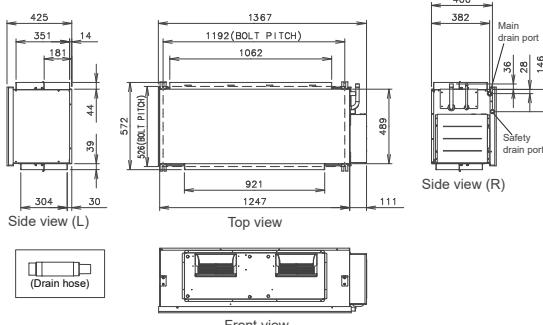
Dimensions Models : ARXH054GTAH/ARXH072GTAH/ARXH096GTAH

(Unit : mm)

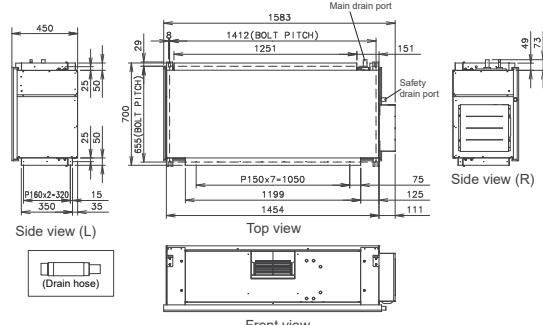
ARXH054GTAH



ARXH072GTAH



ARXH096GTAH



DX-Kit FOR AIR HANDLING APPLICATIONS

Control unit : UTY-VDGX

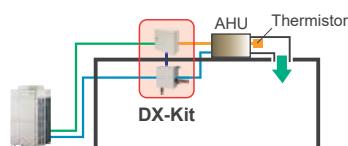
EEV unit : UTP-VX30A / UTP-VX60A / UTP-VX90A

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

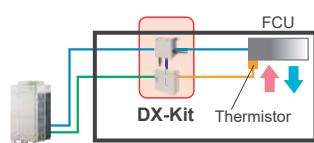


Features

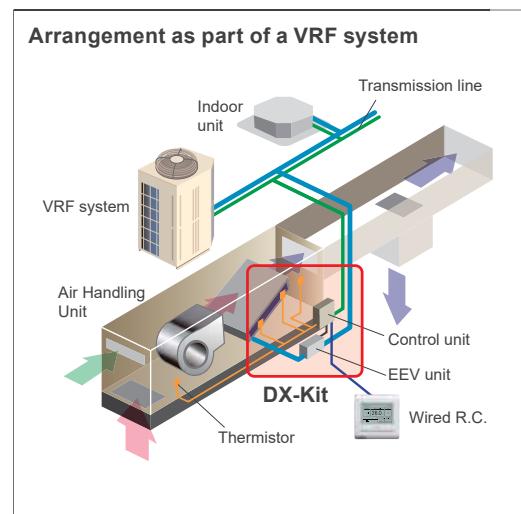
Multiple temperature sensors optimally control the air handling unit and fan coil unit.



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

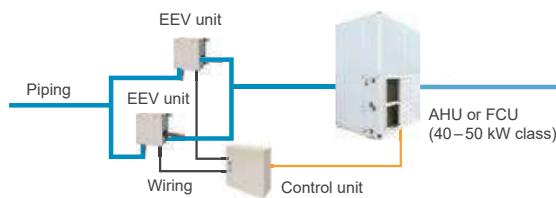


When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.



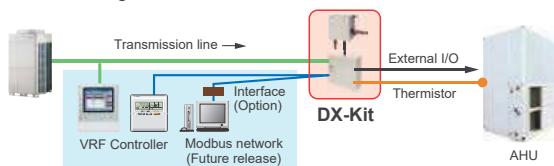
Supports a wide range of capacity classes

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

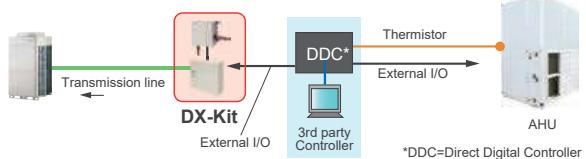


A variety of controls to match the application

- Central control using our VRF controllers or central management controllers



- Central control from external controllers



*DDC=Direct Digital Controller

Features

Functions Summary

Inputs

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

Outputs

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

Modbus Control

Future Release

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

Installation Limitation

- Connectable DX-Kit system capacity range : 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units : 30% or less of the outdoor unit capacity
- Max. wiring length from control unit : 10 m
- Max. piping length between EEV unit and indoor unit : 5 m
- Outdoor installation : Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

Connectable capacity

• Single connection



• Mixed connection

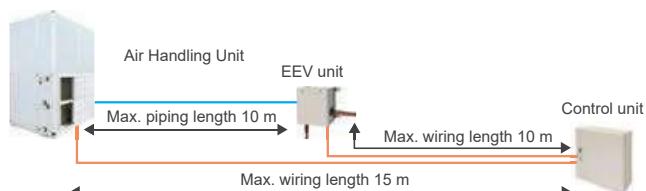


[For 2EEV units connection (option)]

- Separation Tube : UTP-LX180A



Piping and wiring length



Specifications

(Tentative)

Connectable Capacity class		5.0kW	6.3kW	8.0kW	10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	40.0kW	50.0kW	
Capacity	Cooling Heating	kW	5.6 6.3	6.3 7.1	8.0 9.0	10.0 11.2	12.5 14.0	14.0 16.0	22.4 25.0	25.0 28.0	40.0 45.0	50.4 56.5
Control unit												
UTY-VDGX												
Power source												
230 / 1 / 50												
Dimensions (H × W × D)												
400 × 400 × 120												
EEV unit			UTP-VX30A			UTP-VX60A			UTP-VX90A	UTP-VX90A×2		
Connection pipe diameter (Liquid)			Ø9.53			Ø12.7			Ø12.7	Ø12.7		
Dimensions (H × W × D)						160 × 220 × 90						

Note : Specifications are based on the following conditions.

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

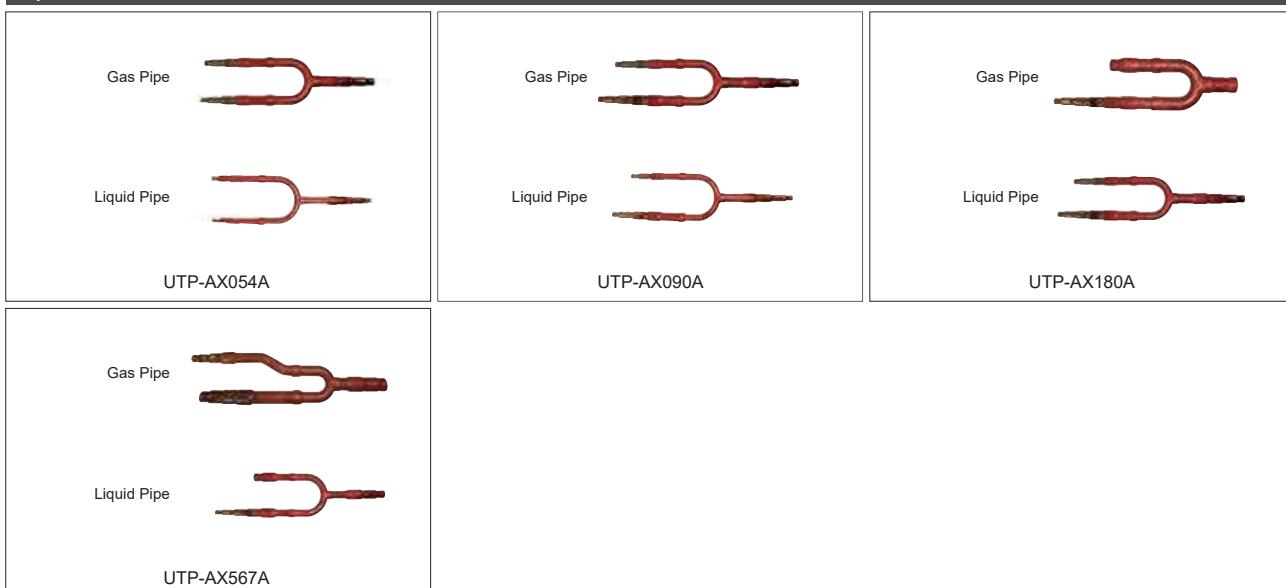
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

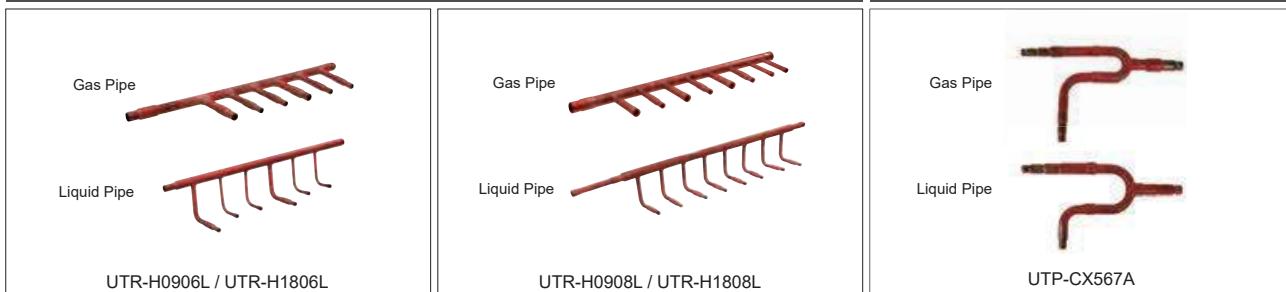
OPTIONAL PARTS FOR VRF

Connection Units

Separation Tube



Header



EV Kit





Specifications

Separation Tube

Model name	UTP-AX054A	UTP-AX090A	UTP-AX180A	UTP-AX567A
Total cooling capacity of indoor unit (kW)	19.6 or less	28.0 or less	28.1 to 56.0	56.1 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-II)	
Number of Outdoor unit	2 outdoor units	1
	3 outdoor units	2

EV Kit

Model name	UTR-EV09XB	UTR-EV14XB
Application Model	ASYE04GACH ASYE07GACH ASYE09GACH	ASYE12GACH ASYE14GACH

OPTIONAL PARTS FOR VRF

Controllers

For Individual Control

Wired Remote Controller (Touch Panel)

UTY-RNRYZ1 **NEW**



Wired Remote Controller UTY-RLRY



Simple Remote Controller

UTY-RSKY

With operation mode



Simple Remote Controller

UTY-RHKY

Without operation mode



Wireless Remote Controller

UTY-LNHY



IR Receiver Unit

UTB-YWC

For All Duct type



IR Receiver Unit

UTY-LRHYB1

For Cassette type



For Centralized Control

Group Remote Controller

UTY-CGGY



Central Remote Controller

UTY-DCGY



Touch Panel Controller

UTY-DTGYZ1 **NEW**



System Controller Lite Software

UTY-ALGX



System Controller Software

UTY-APGX





Convertors / Adaptors

For External device

BACnet® Gateway Software
UTY-ABGX



DVD-ROM
(Software)



Software
Protection Key

Network Convertor
for LonWORKS®
UTY-VLGX



MODBUS® Convertor for VRF
UTY-VMGX NEW



For System expansion

Network Convertor for single split
UTY-VTGX NEW
DC power supply type



Network Convertor for single split
UTY-VTGXV NEW
AC power supply type



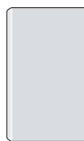
Network Convertor for Group Remote Controller
UTY-VGGXZ1



Signal Amplifier
UTY-VSGXZ1



External Switch Controller
UTY-TEKX



Panels

For Cassette type

Cassette Grille
UTG-UFYC-W
For Compact Cassette type



Cassette Grille
UTG-UGYA-W
For Cassette type



OPTIONAL PARTS FOR VRF

Others

Communication system: External Connect Kit

For Indoor unit	For Outdoor unit
UTY-XWZXZ7 	UTY-XWZXZD 
UTY-XWZXZB 	UTY-XWZXZE 
UTY-XWZXZC 	
For Central Remote Controller	For Touch Panel Controller
UTY-XWZXZ7 	UTY-XWZXZA 
UTY-XWZXZ8 	
UTY-XWZXZA 	

Function list

		Indoor unit	Outdoor unit	Controller
				Central Remote Controller Touch Panel Controller
Input	Operation / Stop	● UTY-XWZXZD ○ UTY-XWZXZB	—	—
	All On / All Off	—	—	● UTY-XWZXZ7 ○ UTY-XWZXZ8
	Batch Stop	—	● UTY-XWZXZ6	—
	Forced Stop	● UTY-XWZXZD ○ UTY-XWZXZB	—	—
	Emergency Stop	● UTY-XWZXZD ○ UTY-XWZXZB	● UTY-XWZXZ6	● UTY-XWZXZ7 ○ UTY-XWZXZ8
	Forced Thermostat off	● UTY-XWZXZE ○ UTY-XWZXZ7	—	—
	Low Noise Mode Operation	—	● UTY-XWZXZ6	—
	Cooling / Heating Priority	—	● UTY-XWZXZ6*1	—
	"Outdoor Unit Operation Peak Control"	—	● UTY-XWZXZ6	—
	"Power Usage Information from Electricity Meter"	—	● UTY-XWZXZF	—
Output	Operation Status	● UTY-XWZXZC	○ UTY-XWZXZ6	○ UTY-XWZXZA ○ UTY-XWZXZA
	Error Status	● UTY-XWZXZC	○ UTY-XWZXZ6	○ UTY-XWZXZA ○ UTY-XWZXZA
	Indoor Unit Fun Operation Status	● UTY-XWZXZC	—	—
	Auxiliary Heater Output	● UTY-XWZXZC*2	—	—
	Base Heater	—	● UTY-XWZXZ9	—

*1. Heat Pump type only *2. Duct type only

● : Dry Contact ○ : Apply Voltage



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-XS2X For All Duct type New amenity space can be offered by installing the Remote sensor.
For Cassette type		
Long-Life Filter UTD-LF25NA For Medium Static Pressure Duct type	Auto Louver Grille Kit UTD-GXTA-W (for ARXD07/09/12/14, ARXK07/09/12/14) UTD-GXTB-W (for ARXD18, ARXK18) UTD-GXTC-W (for ARXD24, ARXK24) For Slim Duct type / Mini Duct type	Drain Pump Unit UTZ-PX1BBA For Low Static Pressure Duct type UTZ-PX1NBA For Medium Static Pressure Duct type
Wide Panel UTG-AKXA-W For Cassette type	Panel Spacer UTG-BKXA-W For Cassette type	Insulation Kit for High Humidity UTZ-KXGA For Cassette type UTZ-KXGC For Compact Cassette type
Fresh Air Intake Kit UTZ-VXAA For Compact Cassette type	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-YDZC For Cassette type Shuts the air outlet when only using as 3 blow out.
<small>* Not applicable for VRV V-II tropical and V-III tropical series</small>		

For Ceiling type
Drain Pump Unit UTR-DPB24T For Ceiling type

Note: Information are correct during time of printing. Specifications and designs are subjected to changes without prior notice for further improvements.
Please check with the sales representatives from Winfinity (S'pore) Pte Ltd. to avoid any discrepancies. Actual colours of products might differ slightly from those printed.
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