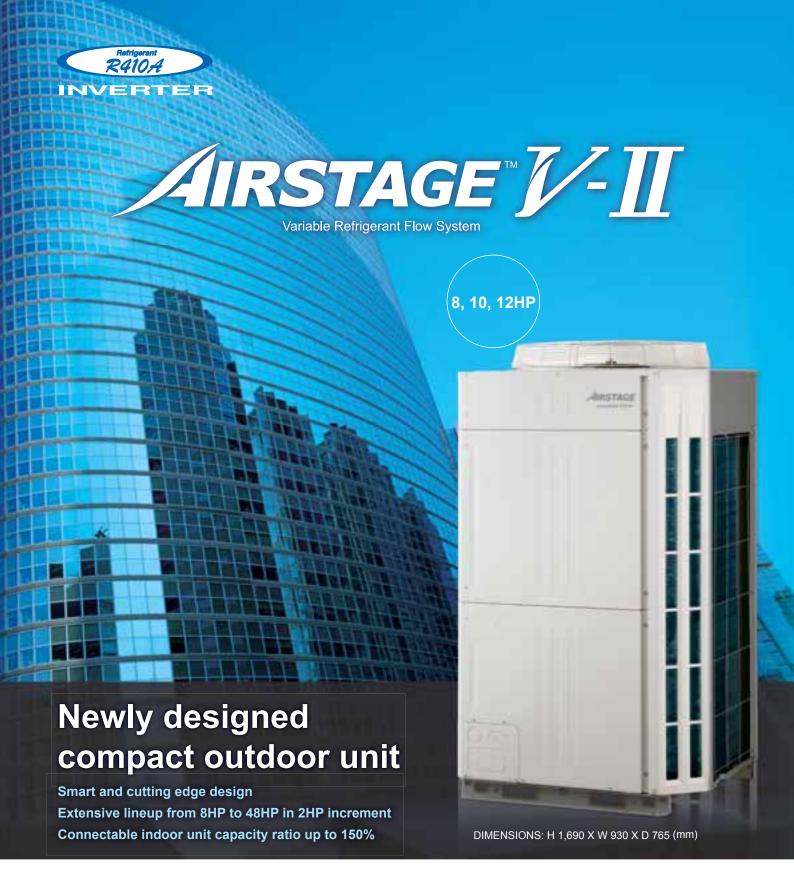




Multi Air Conditioning System for Buildings

Large Capacity Multi VRF System
DC Inverter Control Compressor
Long Piping System Design
High Efficiency Refrigerant R410A





High Efficiency Operating System

EER/COP has been significantly improved by unique inverter technology and refrigerant control technology.



Installation Flexibility

Total pipe length of 1,000m and 150m actual pipe length. From small to large buildings, any application can be supported.





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Compact Design

The outdoor unit size has been significantly reduced by optimizing of equipment.

This allows for a reduction in the required installation area floor space.



User Friendly Central Control

Diverse building air conditioning control functions can be controlled easily by central Airconditioning control.





Optional Parts 66

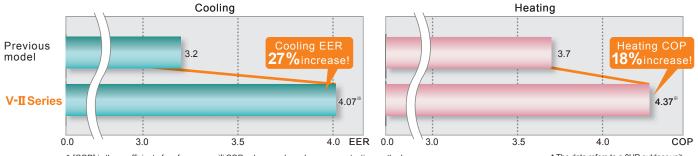
High Efficiency Operation

Advanced system considers high efficiency operation

High Efficiency

■ Significantly improved EER/COP

Significantly greater efficiency is realized by the use of a DC twin rotary compressor, inverter technology, and large heat exchanger.



^{* &}quot;COP" is the coefficient of performance * COP values are based on our own testing method. [= capacity (kW)÷input power (kW)].

* The data refers to a 8HP outdoor unit.

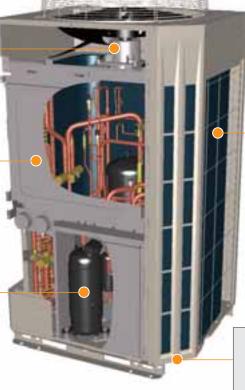
■ Energy saving technology that boosted operation efficiency



Power consumption has been reduced by 25% compared to previous models by using a compact and high performance DC fan motor.



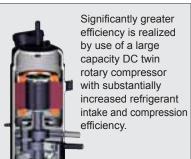
High efficiency operation is realized by using a sine wave DC inverter control.



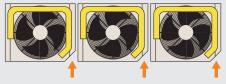
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.



Surface area **1.7** times!



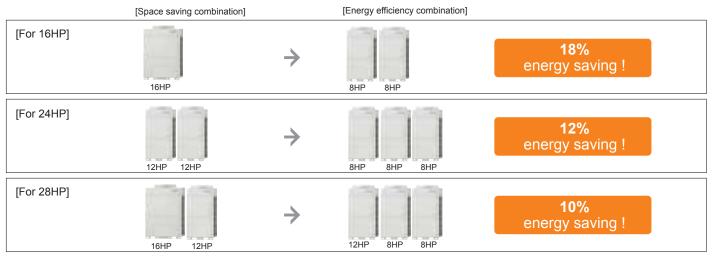
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.





Energy efficiency combination

■ Choice of space saving or energy efficiency combinations



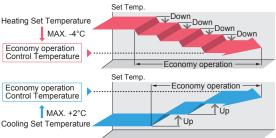
(Comparison of Average COP)

Various energy saving features

■ Economy operation

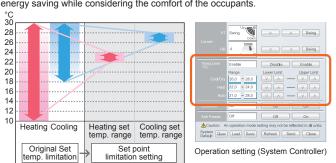
Economy operation can be set by remote controller.

The temperature setting is offset automatically over a certain period of time.



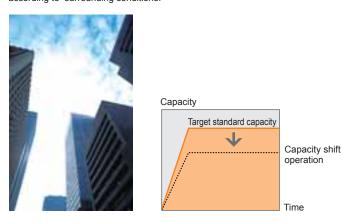
■ Room temperature set point limitation

The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.



■ Capacity shift operation

When the heat load is minimal, capacity can be reduced according to surrounding conditions.



Auto-off timer

Each remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents wasteful operation. (NB Except simple remote controller)

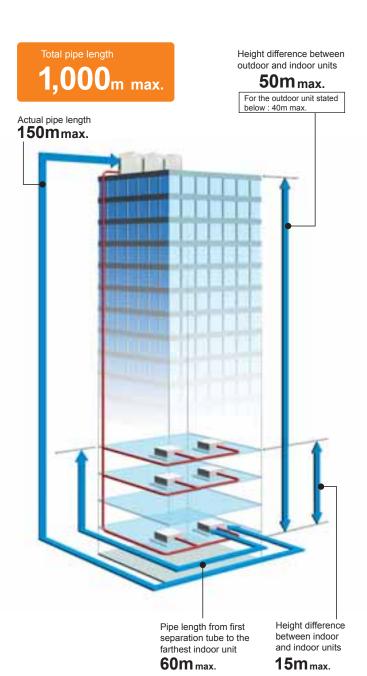
Design Versatility

V-II systems can be applied to a wide variety of Building applications due to the reduced outdoor unit size and piping length capabilities

Flexible and easy piping design

Overall piping length 1,000m

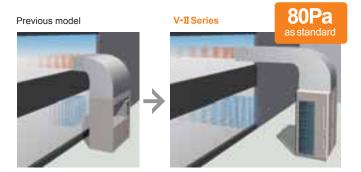
World's top class overall piping length of 1,000m allows for application in a wide variety buildings.



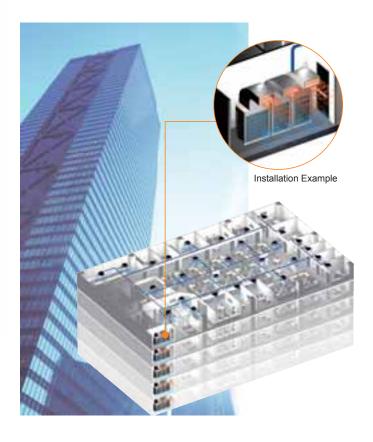
■ High static pressure of 80Pa

The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa standard. This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge with an external static pressure of 80Pa.



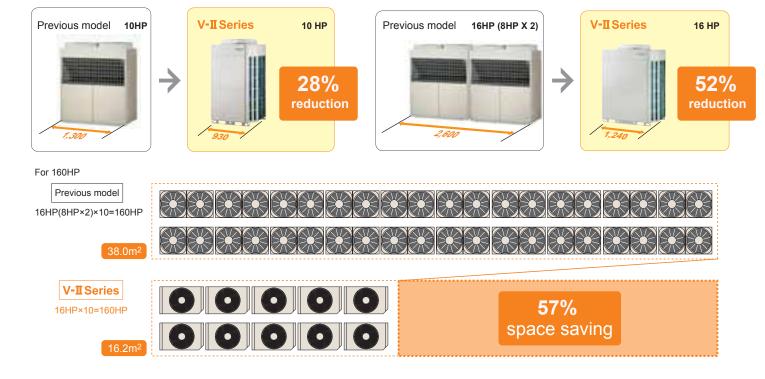
Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa. This is approximately 2.6 times greater than the previous model.





■ Space saving and compact size

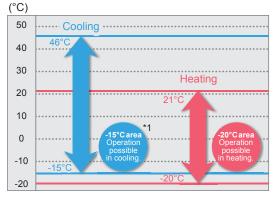
Compact size has been achieved by significantly reducing the width of the outdoor units compared to previous models.



■ Wide operating range

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

Cooling : -15°C~46°C Heating : -20°C~21°C



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

Various combinations

Various combination from 8HP to 48HP with 2HP increments. 11 types, 49 models of indoor units can be selected ranging from 2.2kW to 25kW in capacity. A maximum of 150% indoor unit connectable capacity.

Connectable indoor unit capacity Ratio up to 150 %

Connectable indoor unit number up to 48



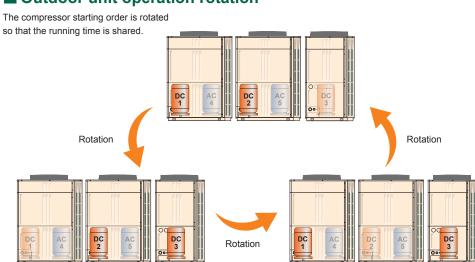
Note: when indoor unit connected capacity is greater than 100%, individual indoor units will operate at a slightly lower capacity when maximum capacity is required.

High Reliability

High reliability considering long-term safety and confidence

Longer lasting units

Outdoor unit operation rotation





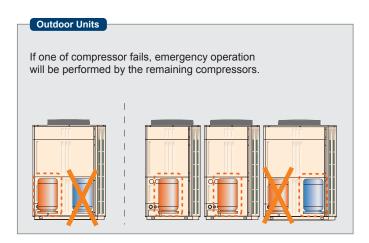
Note: The inverter compressors start in priority.

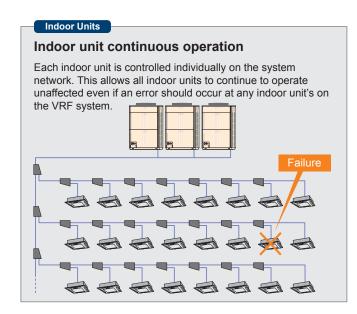
Rotate operation is alternated by the start / stop timing of the compressors

Continuous operation

■ Backup operation

If one of two compressors malfunctions, it will not affect the operation of the remaining outdoor units.







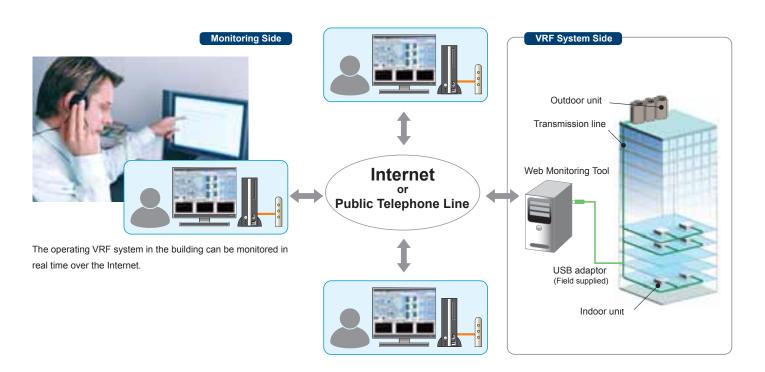
Corrosion treatment



Remote monitoring

■ Remote monitoring over the internet

The Web Monitoring system allows you view system operation at all times over the internet ensuring trouble free operation.



Easy Installation

From transportation of the product to address setting for commissioning, significant improvements have been made which reduce the cost of installation.

Easily transported



Simple wiring & piping work

■ Simple signal line connection

Installation is made easier as the communications wiring can be connected continuously to any component.

Up to maximum length 3,600m

Simple wiring method

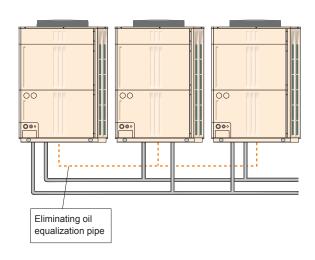
V-II Series

Note: In a multiple refrigerant system installation, Automatic addressing sequence cannot be initiated

Other wiring method

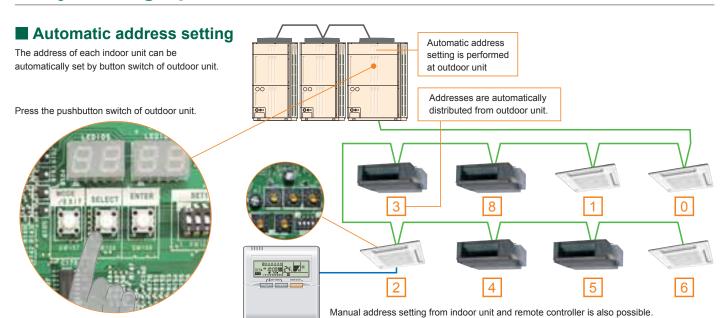
■ Easy piping connection

The need for a oil equalization pipe as required on the previous model has been removed. The installation costs have been reduced by employing a Simple 2 pipe connection





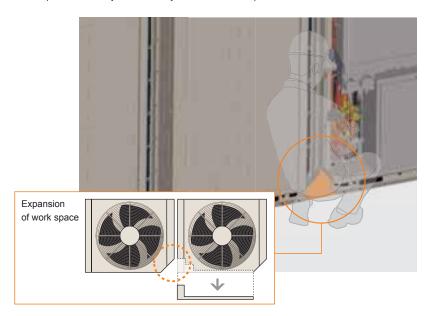
Easy setting operation



Easy maintenance

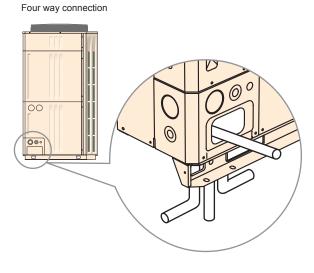
Easy access

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.



■ Four way piping connection

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



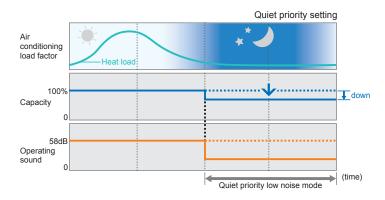
Comfort and Convenience

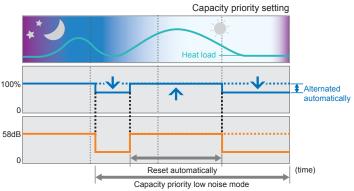
Low noise, easy operational settings, and comfortable temperature adjustment allows for V-II systems to be used in building air conditioning applications.

Quiet operation

Low noise mode

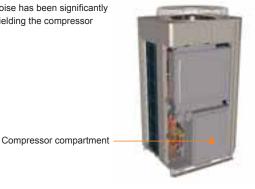
Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the usage environment and outside temperature load.





Low noise design

Compressor noise has been significantly reduced by shielding the compressor compartment.



Indoor unit

Low noise indoor unit lineup



Auto changeover function

Selectable auto changeover function

Auto changeover setting allows for the product to easily switch between Cooling and heating modes regardless of the operation mode of other indoor units This can be done via specific indoor unit remote controller and/or by an external input control. This ensures comfortable operation all year round.

Command for operational mode switching is controlled by one of the following options.

1 selected from the following:

- Various remote controllers connected to indoor unit
- External input terminal of outdoor unit
- 3 System controller



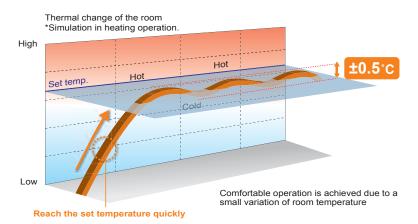


Comfortable, convenient control

■ Precision refrigerant flow control

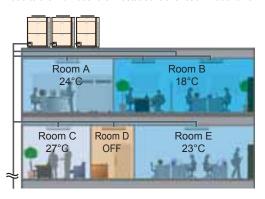
Precision and Smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control.

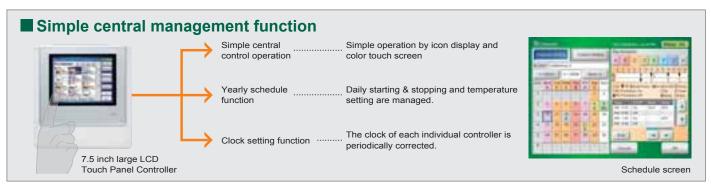
This allows for a high precision comfortable temperature control of ±0.5°C.



Individual Air Conditioning Control

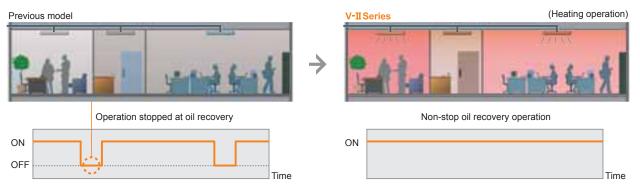
The desired temperature conditions of each room are met due to the Individual thermostat control of each indoor unit.





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.



Easy Service & Maintenance

Designed for Quick Service response,
Easy maintenance and Troubleshooting

Design for easy service and maintenance

■ Inspection and replacement of main parts is easier due to innovative construction and an LED operational display.



Consolidated electrical components make maintenance easy



Movable PCB panel that allows for easier maintenance work behind the PCB

Maintenance of electrical components, valves, and compressor parts from the front is possible.

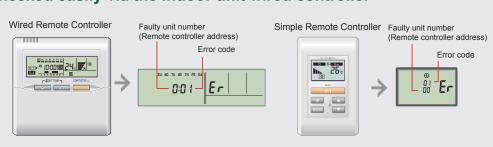
Easy-to-read 7-segment LED display which explains operational and trouble status





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

An error code is displayed on a liquid crystal screen.

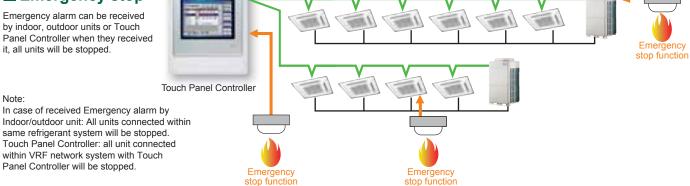




Emergency stop function

■ Emergency stop

Emergency alarm can be received by indoor, outdoor units or Touch Panel Controller when they received it, all units will be stopped.



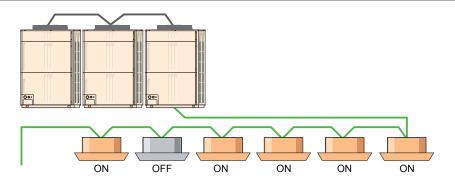
Touch Panel Controller: all unit connected within VRF network system with Touch Panel Controller will be stopped.

Note:

Continuous operation during maintenance

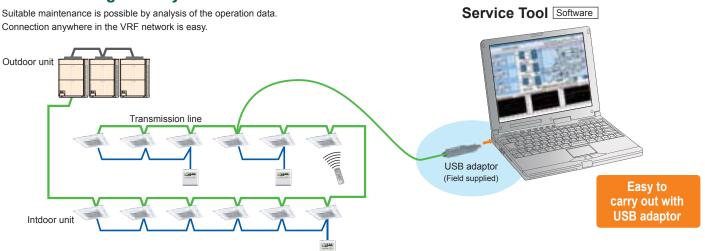
Non-stop operation

When servicing a specific indoor unit, maintenance can be performed even without turning off the other indoor units.



Prompt trouble diagnosis

■ Trouble diagnosis by Service Tool



Outdoor Units Lineup

- •Extensive line up from 8HP to 48HP in 2HP increments
- •Space saving combination and Energy efficiecy combination available, which can be selected to suit any air conditioning needs
- •Combinations other than the followings are not recommended.

■ Space saving combination











































■ Energy efficiency combination













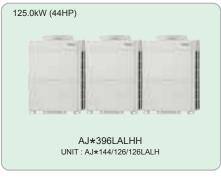












Innovative Technology



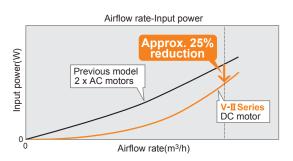
Powerful large propeller fan



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

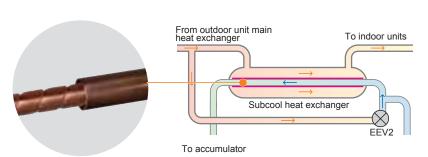
DC fan motor





High Performance and High Efficiency has been realized by using a small DC fan motor which has reduced power consumption by 25% when compared with the previous model.

Subcool heat exchanger



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

Sine wave DC inverter control



A DC Sine wave inverter control has been used which allows for a high efficiency and high energy saving operation. Inverter losses are significantly reduced by newly adopted IPM and original motor control.

DC twin rotary compressor



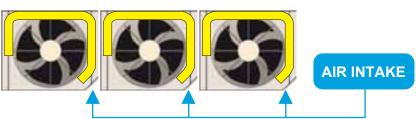
A high performance, low noise, large capacity DC twin rotary compressor is used. Each part is optimized with intake and compression efficiency increased to the maximum extent. In addition, high performance and high quality is maintained by using a double accumulator.

Heat exchanger



Reduced compact size and energy saving has been realised by utilizing a ø7mm high density piping design with a unique enclosing shape. This new coil design allows for a increase of approximately 1.7 times heat exchanger volume when compared with the previous model.

Front intake port (omnidirectional intake)



Front intake port is designed to prevent decreasing airflow when multiple outdoor units are installed.



Specifications

Space saving combination											
Rating Capacity range	ŀ	ΗP	8	10	12	14	16	18	20	22	24
Set Model			AJ*A72LALH	AJ*A90LALH	AJ*108LALH	AJ*126LALH	AJ*144LALH	AJ*162LALH	AJ*180LALH	AJ*198LALH	AJ*216LALH
Unit 1 Unit 2 Unit 3			AJ*A72LALH	AJ*A90LALH	AJ*108LALH	AJ*126LALH	AJ*144LALH	AJ*A90LALH AJ*A72LALH		AJ*108LALH AJ*A90LALH	
Maximum Connectable Indo	or Unit*1		15	16	17	21	24	32	32	32	35
Indoor unit connectable capacity	Cooling	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.4-67.2	25.2-75.6	28.0-83.9	30.8-92.3	33.5-100.5
Power source											
Capacity	Cooling		22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0
Capacity	Heating	kW	25.0	31.5	37.5	45.0	50.0	56.5	62.5	69.0	75.0
Input power	Cooling	1.10/	5.51	7.73	9.62	11.53	14.17	13.24	15.13	17.35	19.24
	Heating	kW	5.72	7.83	9.28	11.45	12.60	13.55	15.00	17.11	18.56
EER	Cooling	W/W	4.07	3.62	3.48	3.47	3.18	3.81	3.69	3.54	3.48
COP	Heating		4.37	4.02	4.04	3.93	3.97	4.17	4.17	4.03	4.04
Airflow rate	High	m ³ /h	11,100	11,100	11,100	13,000	13,000	11,100 x 2	11,100 x 2	11,100 x 2	11,100 x 2
Sound	Cooling	dB	56	58	58	60	61	60	60	61	61
pressure level*2	Heating	(A)	58	59	60	61	61	62	62	63	63
Maximum external static pressure	Pa		80	80	80	80	80	80	80	80	80
Compressor motor output	kW		3.9	3.9	3.9 + 4.5	3.9 + 4.5	3.9 + 4.5	3.9 x 2	3.9 x 2 + 4.5	3.9 x 2 + 4.5	3.9 x 2 + 4.5 x 2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
	- 3 -	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
Dimensions	Width	mm	930	930	930	1,240	1,240	930 x2	930 x 2	930 x 2	930 x 2
	Depth	mm	765	765	765	765	765	765	765	765	765
Weight	kg		220	220	275	296	296	220+220	275+220	275+220	275+275
Refrigerant charge	kg		11.2	11.2	11.8	11.8	11.8	11.2 x 2	11.8 + 11.2	11.8 + 11.2	11.8 x 2
Connection	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
pipe diameter	Gas		22.20	22.20	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operation	Cooling	·c	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
temperature range	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy efficiency combination

Rating Capacity range	I	HP	16	22	24	26	28	30
Set Model			AJ*144LALHH	AJ*198LALHH	AJ*216LALHH	AJ*234LALHH	AJ*252LALHH	AJ*270LALHH
Unit 1 Unit 2 Unit 3			AJ*A72LALH AJ*A72LALH	AJ*126LALH AJ*A72LALH	AJ*A72LALH AJ*A72LALH AJ*A72LALH	AJ*A90LALH AJ*A72LALH AJ*A72LALH	AJ*108LALH AJ*A72LALH AJ*A72LALH	AJ*126LALH AJ*A72LALH AJ*A72LALH
Maximum Connectable Indo	or Unit*1		30	33	36	39	42	45
Indoor unit connectable capacity	Cooling	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source								
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.3	84.8
Capacity	Heating	T V V	50.0	70.0	75.0	81.5	87.5	95.0
Input power	Cooling	kW	11.02	17.04	16.53	18.75	20.64	22.55
ilipat power	Heating		11.44	17.17	17.16	19.27	20.72	22.89
EER	Cooling	w/w	4.07	3.66	4.07	3.88	3.79	3.76
COP	Heating	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4.37	4.08	4.37	4.23	4.22	4.15
Airflow rate	High	m³/h	11,100 x 2	13,000 + 11,100	11,100 x 3	11,100 x 3	11,100 x 3	13,000+11,000 x 2
Sound	Cooling	dB	59	61	61	62	62	63
pressure level*2	Heating	(A)	59	62	61	62	63	63
Maximum external static pressure	Pa		80	80	80	80	80	80
Compressor motor output	kW		3.9 x 2	3.9 x 2+4.5	3.9 x 3	3.9 x 3	3.9 x 3+4.5	3.9 x 3+4.5
Heat exchanger 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
Diffictionis	Width	mm	930 x 2	930+1,240	930 x 3	930 x 3	930 x 3	930 x 2+1,240
	Depth	mm	765	765	765	765	765	765
Weight	kg		220+220	296+220	220+220+220	220+220+220	275+220+220	296+220+220
Refrigerant charge	kg		11.2 x 2	11.8 +11.2	11.2 x 3	11.2 x 3	11.8 + 11.2 x 2	11.8+11.2 x 2
Connection	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
pipe diameter	Gas]'''''[28.58	34.92	34.92	34.92	34.92	34.92
Operation	Cooling	°C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
temperature range	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

AJ*: AJY(FUJITSU), AJH(GENERAL)

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. When cooling operation will be conducted at outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

^{*1} Minimum connectable indoor unit number is 2.
However ARXC72 and ARXC90 can be used signal connection.
*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.

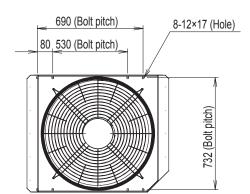
26	28	30	32	34	36	38	40	42	44	46	48
AJ*234LALH	AJ*252LALH	AJ*270LALH	AJ*288LALH	AJ*306LALH	AJ*324LALH	AJ*342LALH	AJ*360LALH	AJ*378LALH	AJ*396LALH	AJ*414LALH	AJ*432LALH
AJ*126LALH AJ*108LALH	AJ*144LALH AJ*108LALH	AJ*144LALH AJ*126LALH	AJ*144LALH AJ*144LALH	AJ*108LALH AJ*108LALH AJ*A90LALH	AJ*108LALH AJ*108LALH AJ*108LALH	AJ*126LALH AJ*108LALH AJ*108LALH	AJ*144LALH AJ*108LALH AJ*108LALH	AJ*144LALH AJ*126LALH AJ*108LALH	AJ*144LALH AJ*144LALH AJ*108LALH	AJ*144LALH AJ*144LALH AJ*126LALH	AJ*144LALH AJ*144LALH AJ*144LALH
39	42	45	48	48	48	48	48	48	48	48	48
36.8-110.3	39.3-117.8	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.8	53.5-160.5	56.0-168.0	59.3-177.8	61.8-185.3	65.0-195.0	67.5-202.5
3-phase 4 wire	e, 400 V, 50Hz										
73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0
82.5	87.5	95.0	100.0	106.5	112.5	120.0	125.0	132.5	137.5	145.0	150.0
21.15	23.79	25.70	28.34	26.97	28.86	30.77	33.41	35.32	37.96	39.87	42.51
20.73	21.88	24.05	25.20	26.39	27.84	30.01	31.16	33.33	34.48	36.65	37.80
3.48	3.30	3.31	3.18	3.52	3.48	3.48	3.35	3.36	3.25	3.26	3.18
3.98	4.00	3.95	3.97	4.04	4.04	4.00	4.01	3.98	3.99	3.96	3.97
13,000+11,100	13,000+11,100	13,000 x 2	13,000 x 2	11,100 x 3	11,100 x 3	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000 x 3	13,000 x 3
62	63	64	64	63	63	64	64	65	65	65	66
64	64	64	64	64	65	65	65	65	65	66	66
80	80	80	80	80	80	80	80	80	80	80	80
3.9 x 2 + 4.5 x 2	3.9 x 3 + 4.5 x 2	3.9 x 3 + 4.5 x 3									
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
930+1,240	930+1,240	1,240 x 2	1,240 x 2	930 x 3	930 x 3	930 x 2 + 1,240	930 x 2 + 1,240	930 + 1,240 x 2	930 + 1,240 x 2	1,240 x 3	1,240 x 3
765	765	765	765	765	765	765	765	765	765	765	765
296+275	296+275	296+296	296+296	275+275+220	275+275+275	296+275+275	296+275+275	296+296+275	296+296+275	296+296+296	296+296+296
11.8 x 2	11.8 x 2	11.8 x 2	11.8 x 2	11.8 x 2 + 11.2	11.8 x 3						
15.88	15.88	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	34.92	34.92	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				
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21				

32	34	36	40	42	44
32	34	30	40	42	
AJ*288LALHH	AJ*306LALHH	AJ*324LALHH	AJ*360LALHH	AJ*378LALHH	AJ*396LALHH
AJ*108LALH AJ*108LALH AJ*A72LALH	AJ*126LALH AJ*108LALH AJ*A72LALH	AJ*126LALH AJ*126LALH AJ*A72LALH	AJ*126LALH AJ*126LALH AJ*A108LALH	AJ*126LALH AJ*126LALH AJ*126LALH	AJ*144LALH AJ*126LALH AJ*126LALH
48	48	48	48	48	48
44.7-134.1	48.0-143.8	51.2-153.6	56.8-170.2	60.0-180.0	62.5-187.5
3-phase 4 wire, 400 V,	, 50Hz				
89.4	95.9	102.4	113.5	120.0	125.0
100.0	107.5	115.0	127.5	135.0	140.0
24.75	26.66	28.57	32.68	34.59	37.23
24.28	26.45	28.62	32.18	34.35	35.50
3.61	3.60	3.58	3.47	3.47	3.36
4.12	4.06	4.02	3.96	3.93	3.94
11,100 x 3	13,000+11,100 x 2	13,000 x 2+11,100	13,000 x 2+11,100	13,000 x 3	13,000 x 3
62	63	64	64	65	65
64	64	65	65	66	66
80	80	80	80	80	80
3.9 × 3+4.5 × 2	3.9 x 3+4.5 x 2	3.9 x 3+4.5 x 2	3.9 x 3+4.5 x 3	3.9 x 3+4.5 x 3	3.9 x 3+4.5 x 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690
930 × 3	930 x 2+1,240	930+1,240 x 2	930+1,240 x 2	1,240 x 3	1,240 x 3
765	765	765	765	765	765
275+275+220	296+275+220	296+296+220	296+296+275	296+296+296	296+296+296
11.8 × 2+11.2	11.8 x 2+11.2	11.8 x 2+11.2	11.8 x 3	11.8 x 3	11.8 x 3
19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	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
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

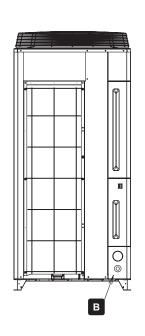
Dimensions

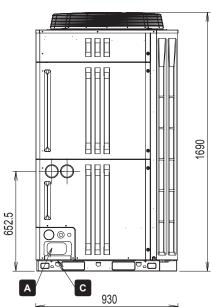
8, 10, 12HP

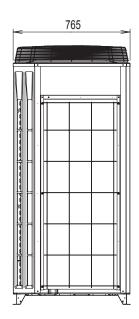
AJ*A72LALH AJ*A90LALH AJ*108LALH

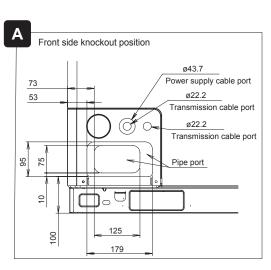


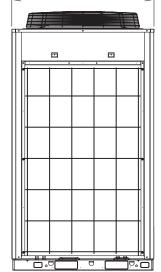
(Unit: mm)

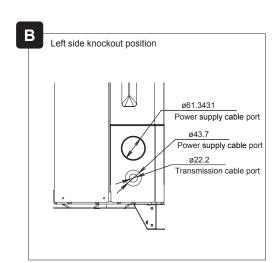








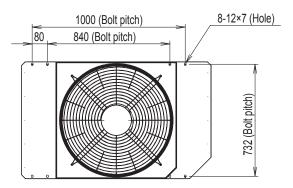




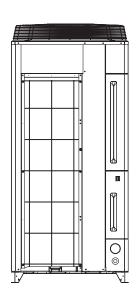


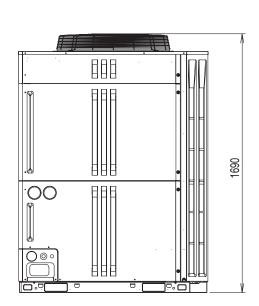
14, 16HP

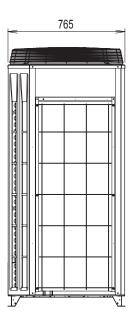
AJ*126LALH AJ*144LALH

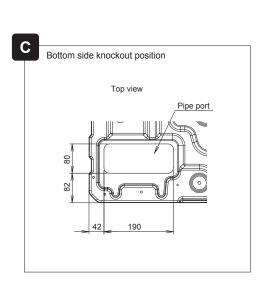


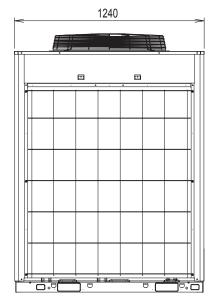
(Unit:mm)











Indoor Unit Lineup

11 Types, 49 Models, Capacity range from 2.2kW to 25.0kW

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.

Rating Capacity Range (kW)	2.2	2.8	3.6	4.5	5.6	7.1
Model code	7	9	12	14	18	24
Compact Cassette	AUXB07LALH	AUXB09LALH	AUXB12LALH	AUXB14LALH	AUXB18LALH	AUXB24LALH
Cassette						
P28					AUXD18LALH	AUXD24LALH
Compact Duct	ARXB07LALH	ARXB09LALH	ARXB12LALH	ARXB14LALH	ARXB18LALH	
Low Static Pressure Duct	ARABU/LALI	ARABUSLALII	ARABIZLALII	ARAD I HLALFI	ARADIOLALII	ARXB24LATH
Duct P32						ARXA24LATH
High Static Pressure Duct						
Floor / Ceiling			AB*A12LATH	AB*A14LATH	AB*A18LATH	AB*A24LATH
Ceiling P38						
Compact Wall Mounted (EEV internal)	AS*A07LACH	AS*A09LACH	AS*A12LACH	AS*A14LACH		
Compact Wall Mounted (EEV external)	AS*E07LACH	AS*E09LACH a this model connecti	AS*E12LACH on of EV kit is neces	AS*E14LACH sary.		
Wall Mounted						
P42	e cannot be connected				AS*A18LATH	AS*A24LATH

The indoor units above cannot be connected to the S or V Series.

AB*: ABY(FUJITSU), ABH(GENERAL) AS*: ASY(FUJITSU), ASH(GENERAL)

9.0	11.2	12.5	14.0	18.0	22.4	25.0
30	36	45	54	60	72	90
AUXA30LALH	AUXA36LALH	AUXA45LALH	AUXA54LALH			
_						
0000						
ARXB30LATH	ARXB36LATH	ARXB45LATH				
10000	10000	10000				
ADVA 201 ATLL	ADVAGGLATII	ADVAASLATU				
ARXA30LATH	ARXA36LATH	ARXA45LATH				
	ARXC36LATH	ARXC45LATH		ARXC60LATH	ARXC72LATH	ARXC90LATH
AB*A30LATH	AB*A36LATH	AB*A45LATH	AB*A54LATH			
AS*A30LATH						
A3*A3ULATH						



Compact size panel design that fits standard ceiling panel (600x600mm)

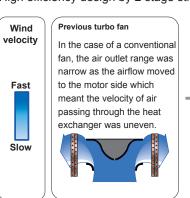
Models

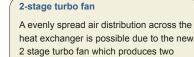
AUXB07LALH AUXB09LALH AUXB12LALH AUXB14LALH AUXB18LALH AUXB24LALH



2-stage turbo fan

High efficiency design by 2 stage structure





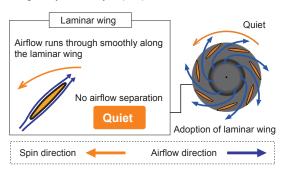
separate airflow streams.

20%UP

Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations



Specifications

Model name				AUXB07LALH	AUXB09LALH	AUXB12LALH	AUXB14LALH	AUXB18LALH	AUXB24LALH
Power source						230V-	~50Hz		
Capacity		Cooling		2.2	2.8	3.6	4.5	5.6	7.1
		Heating	kW	2.8	3.2	4.1	5.0	6.3	8.0
Input power			W	25 25 29 35 36				84	
Airflow rate		High		540	550	600	680	710	1,030
		Med	m³/h	450	450	530	590	580	830
		Low		350	350	390	390	400	450
Sound pressur	re level	High		34	34 35 37 38 41				50
		Med	dB(A)	30	30	34	34	35	44
		Low		25	25	27	27	27	30
Dimensions (H	l x W x D)		mm			245 x 57	70 x 570		
Weight			kg		1	5		1	7
Connection		Liquid (Flare)			ø6	.35		ø9	.52
pipe diameter		Gas (Flare)	mm		ø12	2.70		ø15	5.88
		Drain		ø25 (I.D); ø32 (O.D.)					
Grille(option)	Model nam	е		UTG-UF*C-W					
	Dimensions	s (H x W x D)	mm			50 x 70	0 x 700		
	Weight		kg			2.	6		

F*: FY (FUJITSU): FG(GENERAL)

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].

Easy maintenance

1 Maintenance of fan motor and fan

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

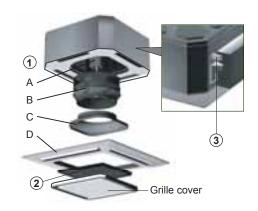
A : Fan motor C : Bell-mouth B : 2-stage turbo fan D : Panel

2 Long life filter

: standard equipment

3 Adaptation of transparent drainage parts

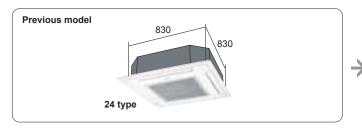
During installation, maintenance and operation, the drain pump and kit can be checked easily.

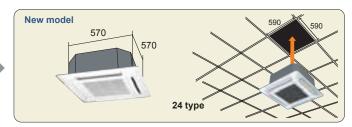


Compact design

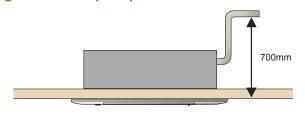
Worlds first 24,000Btu model in the compact cassette category

(Easy installation by taking off ceiling panel of 600 x 600 size)





High lift drain pump



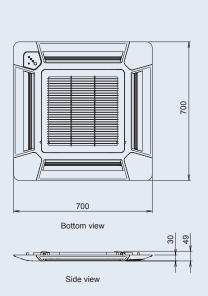
Optional parts

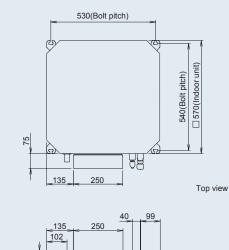
Air Outlet Shutter Plate **UTR-YDZB**

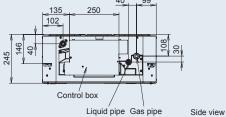
Dimensions

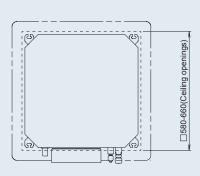
Models: AUXB07 / AUXB09 / AUXB12 / AUXB14 / AUXB18 / AUXB24

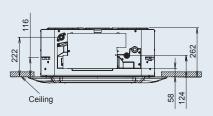
(Unit: mm)











Cassette

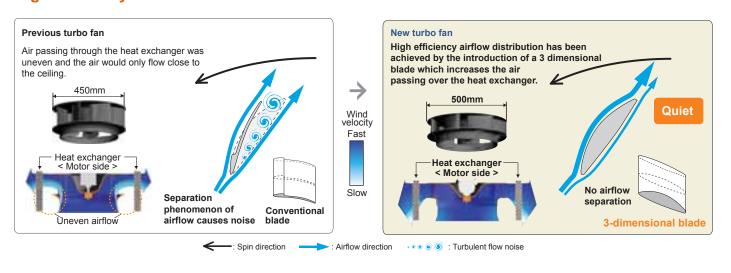
Powerful, wide airflow and quiet operation

Models

AUXD18LALH AUXD24LALH AUXA30LALH AUXA36LALH AUXA45LALH AUXA54LALH



High efficiency turbo fan with 3-dimensional blade



Specifications

Model name				AUXD18LALH	AUXD24LALH	AUXA30LALH	AUXA36LALH	AUXA45LALH	AUXA54LALH	
Power source						230V-	-,50Hz			
Capacity		Cooling	kW	5.6	7.1	9.0	11.2	12.5	14.0	
		Heating	KVV	6.3	8.0	10.0	12.5	14.0	16.0	
Input power			W	39	46	59	80	99	119	
Airflow rate		High		1,150 1,280 1,600 1,800 1,900					2,000	
		Med	m³/h	940	940 1,040 1,300 1,300 1,370					
		Low		870	870 870 1,000 1,000 1,000				1,000	
Sound pressure	und pressure level High			36	38	40	44	46	47	
		Med	dB(A)	30	33	38	38	39	39	
		Low		29	29	31	31	31	31	
Dimensions (H x	W x D)		mm	246 x 84	40 x 840		288 x 84	40 x 840		
Weight			kg	2	3		2	7		
Connection		Liquid (Flare)				ø9	.52			
pipe diameter		Gas (Flare)	mm		ø15.88			ø19.05		
		Drain		ø25 (I.D.) ; ø32 (O.D.)						
Grille (option)	Model na	me		UTG-UG*A-W						
Dimensions (H x W x D) mm			mm	50 x 950 x 950						
	Weight		kg			5	i.5			

 $\mathsf{G}\bigstar:\mathsf{GY}(\mathsf{FUJITSU})\,;\,\mathsf{GG}(\mathsf{GENERAL})$

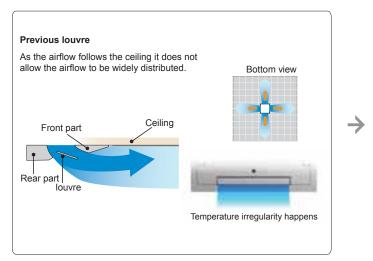
Note: Specifications are based on the following conditions.

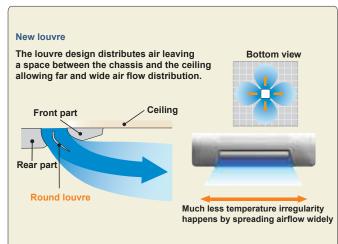
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

Voltage: 230 [V].

Improvement of the airflow distribution

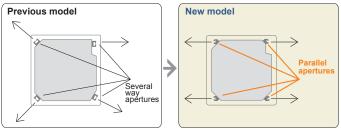




Adjustment of hanger position is possible after installation



One way aperture installation



High lift drain pump Ceiling panel 850mm

Optional Parts

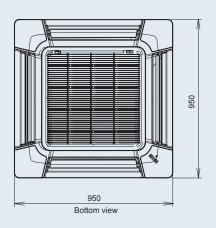
•IR Receiver Kit UTY-LRH*B1 •Air Outlet Shutter Plate **UTR-YDZC** •Panel Spacer UTG-BGYA-W •Wide Panel UTG-AGYA-W

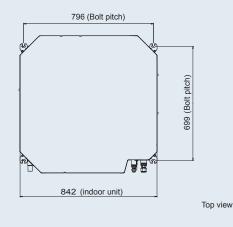
H*: HY(FUJITSU); HG(GENERAL)

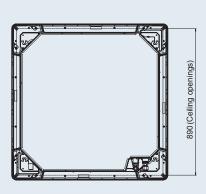
Dimensions

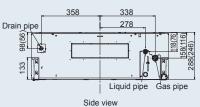
Models: AUXD18LALH / AUXD24LALH (Slim type) AUXA30LALH / AUXA36LALH / AUXA45LALH / AUXA54LALH

(Unit : mm) (): AUXD18 / AUXD24











Small and compact indoor unit suitable for many applications

Models

ARXB07LALH ARXB09LALH



Models

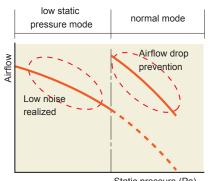
ARXB12LALH ARXB14LALH ARXB18LALH



Low noise level

A low noise level has been achieved for each capacity

Model		7	9	12	14	18
Static pressure (Normal/Max.)	Pa			0 / 50		
Noise level (Low speed)	dB(A)	24	27	25	30	30



Static pressure (Pa)

Specifications

Model name			ARXB07LALH	ARXB09LALH	ARXB12LALH	ARXB14LALH	ARXB18LALH
Power source					230V ~, 50Hz		
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating	, KVV	2.8	3.2	4.1	5.0	6.3
Input power		W	46	55	63	90	96
Airflow rate	High		370	440	590	800	890
	Med	m³/h	310	370	500	750	810
	Low		280	340	450	700	730
Static pressure range	Static pressure range			0 to 50	0 to 50	0 to 50	0 to 50
Standard static pressure	;	Га	25	25	25	25	25
Sound pressure level	High		29	31	30	33	36
	Med	dB(A)	26	29	28	32	34
	Low		24	27	25	30	30
Dimensions (H x W x D)		mm	217 x 6	63 x 595		217 x 953 x 595	
Weight		kg	18 25				
Connection	Liquid (Flare)			ø6	.35		ø9.52
pipe diameter	neter Gas (Flare) mm			ø15.88			
	Drain				ø25 (I.D.) ; ø32 (O.D.)		

Note: Specifications are based on the following conditions.

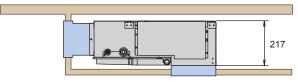
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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.

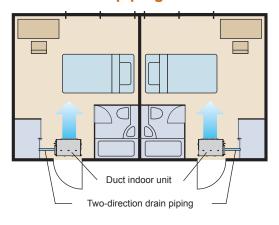
Compact design

Ultra-slim duct air conditioner for easy installation



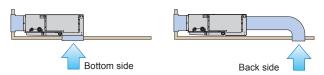
Slim size (217mm) allows installation even where the space behind the ceiling is narrow.

Two-direction drain piping

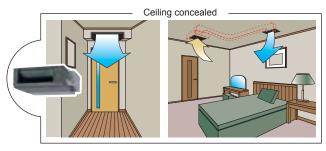


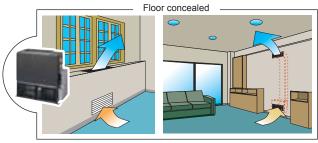
Air-intake

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

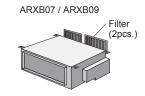


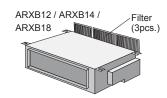
Flexible installation





Filter (Accessory)





Optional parts

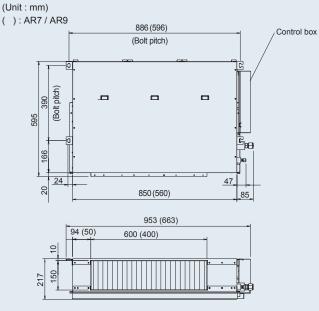
Remote Sensor Unit UTD-RS100 IR Receiver Unit UTB-*WB Drain Pump Unit UTZ-PX1BBA *WB: YWB(FUJITSU), GWB(GENERAL)

Dimensions

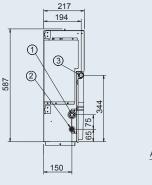
Models: ARXB07 / ARXB09 / ARXB12 / ARXB14 / ARXB18

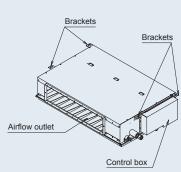
*Service accessibility must be allowed for when installing the product.

Please consult the installation manual for the necessary service access size.









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

Low Static Pressure Duct

Indoor units suitable for quiet rooms such as a hotel or a bedroom

Models

ARXB24LATH ARXB30LATH ARXB36LATH ARXB45LATH



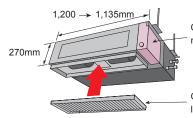
Slim Compact design allows for easy installation in narrow ceiling spaces up to 270mm

Models

ARXA24LATH ARXA30LATH ARXA36LATH ARXA45LATH



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



Control box is now included as part of the main chassis

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

Specifications

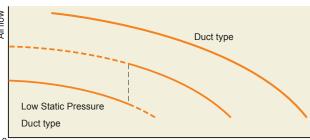
Model name			ARXB24LATH	ARXB30LATH	ARXB36LATH	ARXB45LATH	ARXA24LATH	ARXA30LATH	ARXA36LATH	ARXA45LATH
Power source				230V ~	, 50Hz			230V ~	~, 50Hz	
Capacity	Cooling	kW	7.1	9.0	11.2	12.5	7.1	9.0	11.2	12.5
	Heating	IXVV	8.0	10.0	12.5	14.0	8.0	10.0	12.5	14.0
Input power		W	145	198	253	338	190	188	312	312
Airflow rate	High		1,100	1,410	1,710	1,970	1,280	1,280	1,720	1,720
	Med	m³/h	920	1,280	1,600	1,790	1,210	1,210	1,670	1,670
	Low		810	1,150	1,470	1,670	1,130	1,130	1,600	1,600
Static pressure range		Pa	0 to 80	0 to 80	0 to 80	0 to 80	30 to 150	30 to 150	30 to 150	30 to 150
Standard static pressure		ıα	40	50	50	60	100	100	100	100
Sound pressure level	High		31	34	37	41	38	40	43	43
	Med	dB(A)	27	32	35	38	36	38	41	41
	Low		25	29	33	36	34	36	39	39
Dimensions (H x W x D)		mm		270x1,1	35x700			270x1,1	135x700	
Weight		kg	43		45		43		45	
Connection	Liquid (Flare)			ø9	.52	ø9.52				
pipe diameter	Gas (Flare)	mm	mm ø15.88 ø19.05 ø15.88 ø19				9.05			
	Drain			ø25 (I.D.);	ø32 (O.D.)			ø25 (I.D.);	ø32 (O.D.)	

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.

Line-up of low-noise and high-power models, compatible with a wide range of static pressure



Static pressure

Low Static Pressure Duct type

Optimum model for hotels or bedrooms

An ultra low-noise model that achieves a quiet interior. Perfect for hotels or bedrooms with limited air duct installation space. Two different levels can be selected according to the static pressure range.

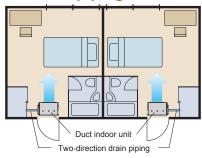


Duct type

Powerful model with a flexible design With a powerful motor, appropriate for a wide range of static pressure. Flexible air duct installation is possible in a large space such as an office.

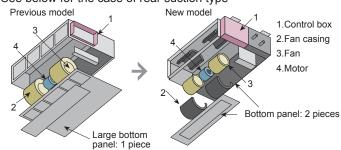


Two-direction drain piping



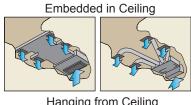
Easy maintenance

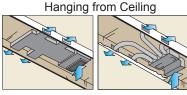
See below for the case of rear suction type



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

Installation styles





Optional parts

UTD-RS100 Remote Sensor Unit Long Life Filter UTD-LF25NA UTD-SF045T Flange (Square) Flange (Round) UTD-RF204 IR Receiver Unit UTB-*WB Drain Pump Unit UTZ-PX1NBA *WB: YWB(FUJITSU), GWB(GENERAL)

Dimensions

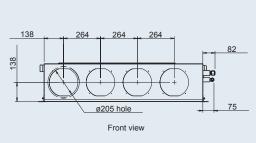
Models: ARXB24 / ARXB30 / ARXB36 / ARXB45 ARXA24 / ARXA30 / ARXA36 / ARXA45 *Service accessibility must be allowed for when

installing the product.

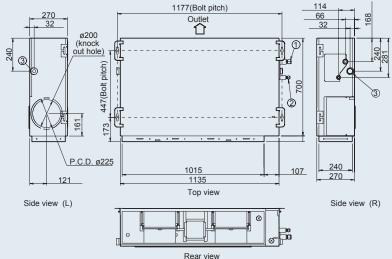
Please consult the installation manual for the

necessary service access size.

(Unit: mm)



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



High Static Pressure Duct

These indoor units allow for high airflow quantities

Models

ARXC36LATH ARXC45LATH ARXC60LATH

Models

ARXC72LATH ARXC90LATH



400

Specifications

Model name Power source			ARXC36LATH	ARXC45LATH	ARXC60LATH	ARXC72LATH	ARXC90LATH
			230 V ∼, 50Hz				
Capacity	Cooling	kW	11.2	12.5	18.0	22.4	25.0
	Heating		12.5	14.0	20.0	25.0	28.0
Input power		W	405	427	427	1,110	1,250
Airflow rate	High	m ³ /h	2,600	3,500	3,500	3,900	4,300
	Med		1,950	3,000	3,000	3,300	4,000
	Low		1,450	2,460	2,460	3,000	3,500
Static pressure range		- Pa	100 to 200	100 to 250	100 to 250	50 to 300	100 to 300
Standard static pressure			100	100	100	260	250
Sound pressure level	High	dB(A)	45	49	49	51	53
	Med		38	45	45	48	51
	Low		32	42	42	45	49
Dimensions (H x W x D) mm		400 x 1,050 x 500			450 x 1,550 x 700		
Weight		kg	45 47		82	82	
Connection	Liquid		ø9.52 (Flare)			ø12.70 (Brazing)	
pipe diameter	Gas	mm	ø19.05 (Flare)			ø22.22(Brazing)	
	Drain		ø25 (l.D.) ; ø32 (O.D.)				

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.

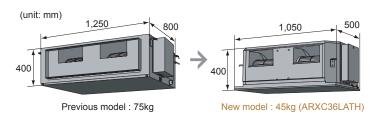
Easy installation (Compact size & Lightweight)

Models: ARXC36

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

Volume 47.5% down

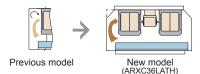
Weight 40% down



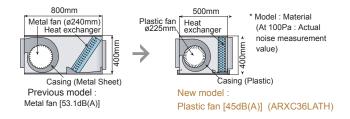
Low noise

Models: ARXC36 / ARXC45 / ARXC60

Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low



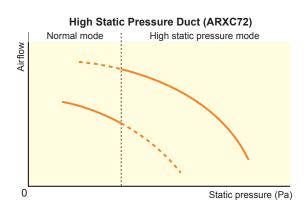
noise is realized by adopting a plastic case and a plastic fan.



Static pressure selection: ARXC72/ARXC90



2 Types of static pressure mode are selectable.



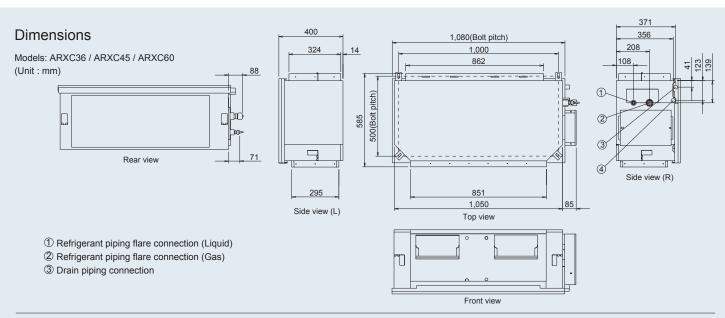
The adoption of a single phase fan motor allows 3 steps fan speed control

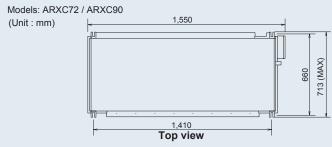
Optional parts

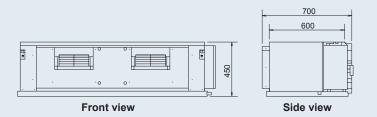
Long-Life Filter UTD-LF60KA (For ARXC36 / 45 / 60)

IR Receiver Unit UTB-*WB

*WB: YWB(FUJITSU), GWB(GENERAL)







Floor / Ceiling

The slim and lightweight design allows the unit to be suspended from the ceiling or installed on the floor.

This type suits many room designs

Models

AB*A12LATH AB*A14LATH AB*A18LATH AB*A24LATH



Flexible installation

Example for floor installation

Floor console



Example for ceiling installation

Under ceiling



Specifications

Model name			AB*A12LATH	AB*A14LATH	AB*A18LATH	AB*A24LATH			
Power source			230V ~, 50Hz						
Capacity	Cooling	- kW	3.6	4.0	5.6	7.1			
	Heating		4.1	4.5	6.3	8.0			
Input power		W	57	57	88	88			
Airflow rate	High	m ³ /h	600	600	780	880			
	Med		500	500	650	740			
	Low		480	480	550	630			
Sound pressure level	High	dB(A)	40	40	46	48			
	Med		37	37	41.5	44			
	Low		34	34	37	40			
Dimensions (H x W x D) mm		199 x 990 x 655							
Weight kg			28						
Connection	Liquid (Flare)		ø6	.35	ø9.52				
pipe diameter	Gas (Flare)	mm	ø12	2.70	ø15.88				
	Drain		ø25 (I.D.) ; ø32 (O.D.)						

AB*: ABY(FUJITSU), ABH(GENERAL)

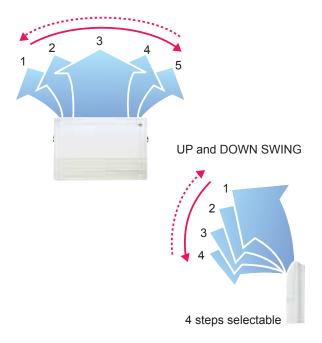
Note: Specifications are based on the following conditions.

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].

Double auto swing

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

RIGHT and LEFT SWING



Super vane

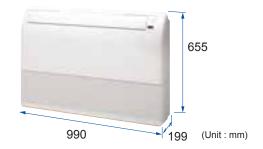
Double Louvre Super vane with newly developed special configuration boosts airflow sending cool air quickly to every corner of the room.

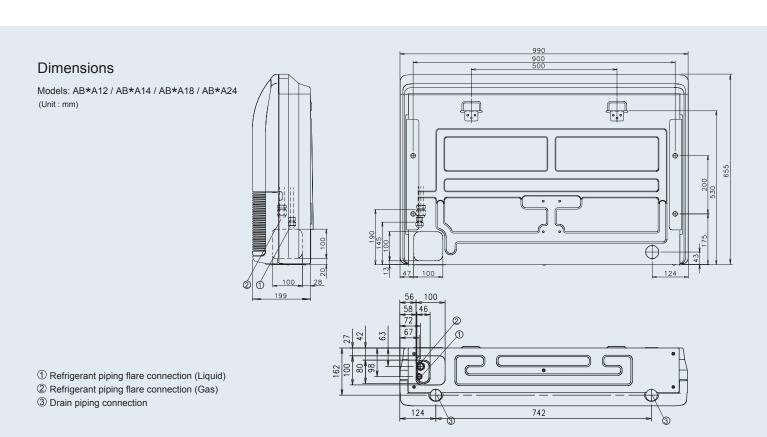
Auto-closing louvre

When operation is stopped, the louvres will automatically close. (This function is available on all non-ducted models.)

Compact design

Symmetrical, slim and compact design.

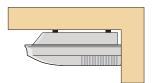






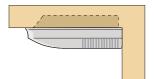
Installation

Open



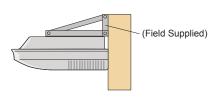
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

Wall mounted



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

Specifications

Model name		AB*A30LATH	AB*A36LATH	AB*A45LATH	AB*A54LATH		
Power source			230V ~, 50Hz				
Capacity	Cooling	kW	9.0	11.2	12.5	14.0	
	Heating	KVV	10.0	12.5	14.0	16.0	
Input power		W	124	144	160	180	
Airflow rate	High		1,450	1,660	1,850	2,200	
	Med	m³/h	1,280	1,500	1,660	2,000	
	Low		980	1,270	1,430	1,800	
Sound pressure level	High		42	45	48	52	
	Med	dB(A)	39	42	46	50	
	Low		35	37	41	46	
Dimensions (H x W x D)		mm	240 x 1,660 x 700				
Weight kg		kg	48				
Connection	Liquid (Flare)			ø9).52		
pipe diameter	Gas (Flare)	mm	ø15.88		ø19.05		
	Drain		ø25 (I.D.) ; ø32 (O.D.)				

AB*: ABY(FUJITSU), ABH(GENERAL)

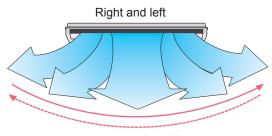
Note: Specifications are based on the following conditions.

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.

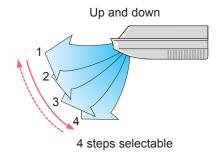
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

Double auto swing and wide airflow

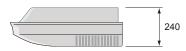
Auto airflow direction and auto swing



5 steps selectable

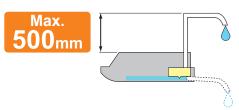


Slim & Compact design

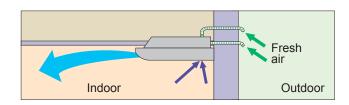


Condensate lift-up mechanism (Option)

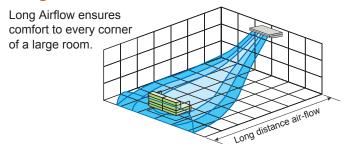
Optional drain lift-up mechanism allows flexible installation.



Fresh air intake



Long Airflow



Long-life filter

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

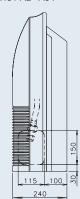
Optional parts

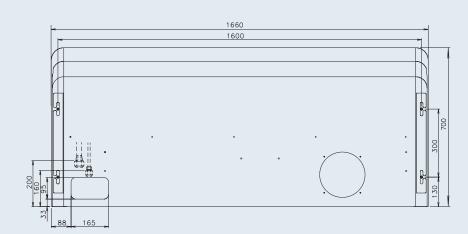
Drain Pump Unit UTR-DPB24T

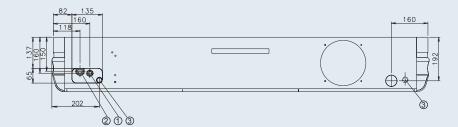
Dimensions

Models: AB*A30 / AB*A36 / AB*A45 / AB*A54

(Unit:mm)







① Refrigerant piping flare connection (Liquid)

② Refrigerant piping flare connection (Gas)

³ Drain piping connection

Compact Wall Mounted

Compact and Stylish design indoor

Models

(EEV internal model) (EEV external model)

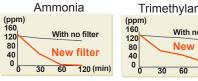
AS*A07LACH AS*E07LACH AS*E09LACH AS*A09LACH AS*E12LACH AS*A12LACH AS*A14LACH AS*E14LACH

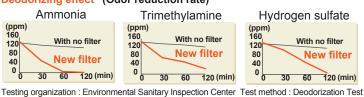


Filter features



Deodorizing effect (Odor reduction rate)





Apple-catechin filter

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



Long-life* Ion deodorization filter

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



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

Specifications

Model name			AS*A07LACH	AS*A09LACH	AS*A12LACH	AS*A14LACH	AS*E07LACH	AS*E09LACH	AS*E12LACH	AS*E14LACH
Power source			230V ~, 50Hz				230V ~, 50Hz			
Capacity Cooling		kW	2.2	2.8	3.6	4.5	2.2	2.8	3.6	4.5
	Heating	KVV	2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0
Input power		W	16	16	19	30	15	16	20	28
Airflow rate	High		490	500	560	670	490	500	560	680
	Med	m ³ /h	450	450	480	490	450	450	480	490
	Low		370	370	420	420	370	370	420	420
Sound pressure level	High		35	36	39	44	34	35	38	43
	Med	dB(A)	33	33	35	37	32	32	34	35
	Low		27	27	31	32	26	26	30	30
Dimensions (H x W x D))	mm	275 x 790 x 215			275 x 790 x 215				
Weight		kg	9			9				
Connection	Liquid (Flare)			ø6.35			ø6.35			
pipe diameter	Gas (Flare)	mm	ø12.70			ø12.70				
Drain			ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)				ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)			
EV Kit (option)			-			UTR-EV09XB UTR-EV14XB				

AS*: ASY(FUJITSU), ASH(GENERAL)

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].

Low noise

27dB (AS07/09)

Indoor

Electronic Expansion valves are built-in allowing for easy installation.

For installation to places that require additional low noise, select the external electronic expansion valve type.

Compact size

Powerful output even compact design

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



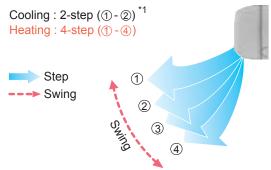
Symmetrical design

Symmetrical, clean design that suits all interiors.



Auto swing louvre

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



*1 When doing 3-4 louvre-setting positions in cooling operation, it returns to the 2 louvre-setting position automatically 30 minutes later.

Easy maintenance

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

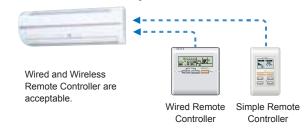


New Style High Power DC fan motor

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

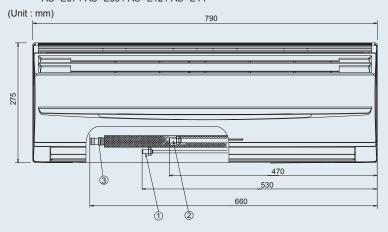


Wired control compatible

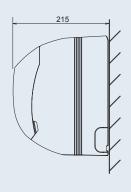


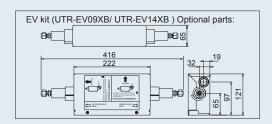
Dimensions

Models: AS*A07 / AS*A09 / AS*A12 / AS*A14 AS*E07 / AS*E09 / AS*E12 / AS*E14



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





Wall Mounted

Double auto swing louver provides pleasant air flow to every corner of the room

Models

AS*A18LATH AS*A24LATH AS*A30LATH



Powerful output in spite of small size

Though the indoor unit is compact, it features a large, high pressure cross fan (107mm diameter) in a center mounted configuration and a lambda type heat exchanger to provide plenty of power. The extra long diffuser provides a wide outflow opening for air. This ensures a large air outflow volume over a wide area to cool or heat all areas of the room.



Specifications

Model name			AS*A18LATH	AS*A24LATH	AS*A30LATH	
Power source				230V ~, 50Hz		
Capacity	Cooling	kW	5.6	7.1	8.0	
	Heating	KVV	6.3	8.0	8.8	
Input power		W	63	74	73	
	High		870	940	980	
Airflow rate	Med	m³/h	700	720	870	
	Low		540	600	750	
	High		43	45	45	
Sound pressure level	Med	dB(A)	37	39	42	
	Low		30	33	39	
Dimensions (H x W x D)		mm	320 x 1,120 x 220			
Weight		kg	16			
Connection	Liquid (Flare)			ø9.52		
pipe diameter	Gas (Flare)	mm		ø15.88		
	Drain		ø12 (I.D.) ; ø16 (O.D.)			

AS*: ASY(FUJITSU), ASH(GENERAL)

Note: Specifications are based on the following conditions.

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

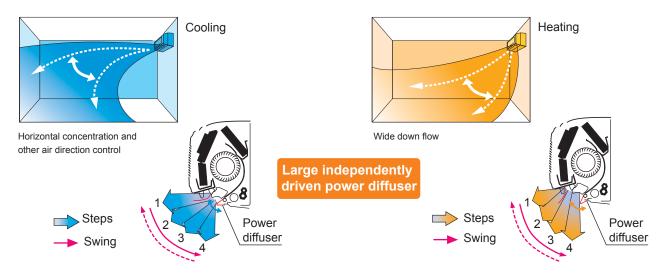
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

Voltage: 230 [V].

Multi airflow

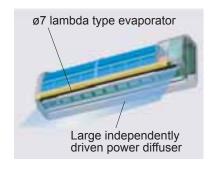
Large independently driven power diffuser used



Low noise

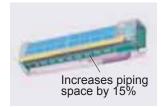
High efficiency fan construction ⇒
 ø7mm Lambda type evaporator improves the airflow path
 Large independently driven power diffuser





Easy installation

Expanded work space at bottom of casing increases piping space by 15%.



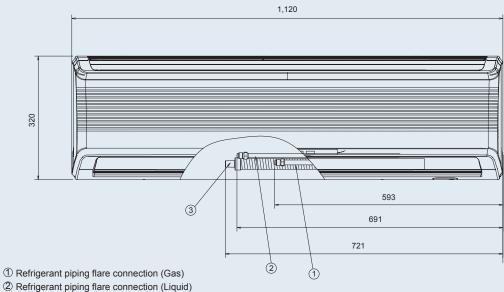
Others

- •Double auto swing
- •2-way draining route

Dimensions

Models: AS*A18 / AS*A24 / AS*A30

(Unit:mm)



235

3 Drain piping connection

Control System

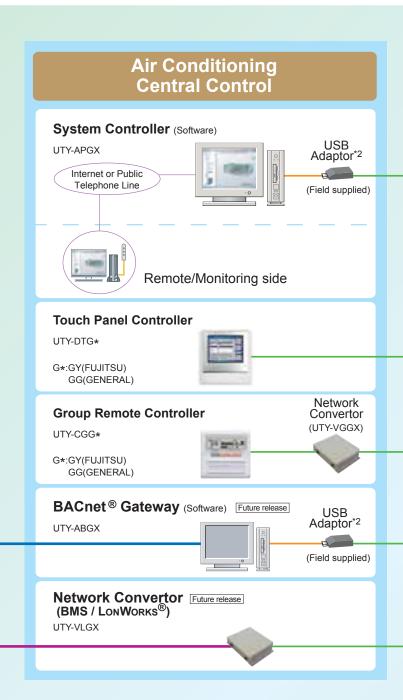
The V-II system supports every users needs by offering a variety of Control systems, including individual control, central control and building management control options.

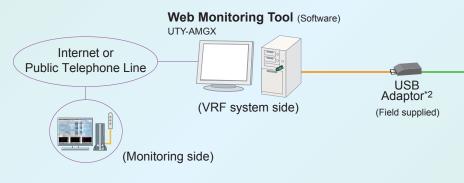
System Diagram



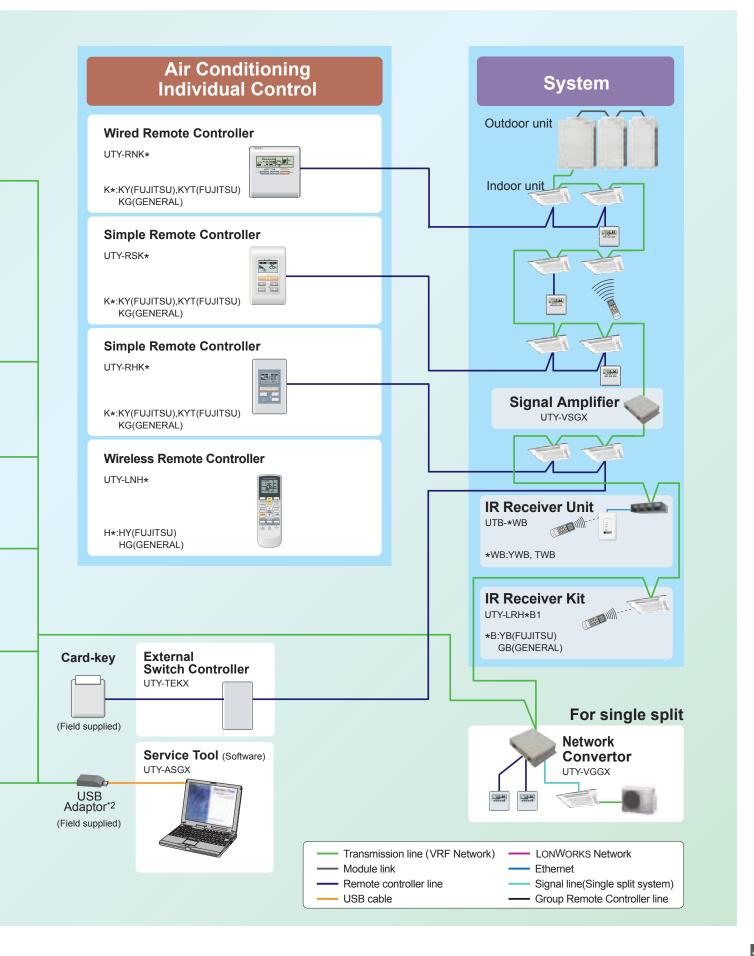
Building Control Computer Connectable to various sized BMS/BAS*1

General-purpose





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



Wiring System

·Wiring construction of the control system is made of power source wiring, transmission wiring and remote controller wiring.

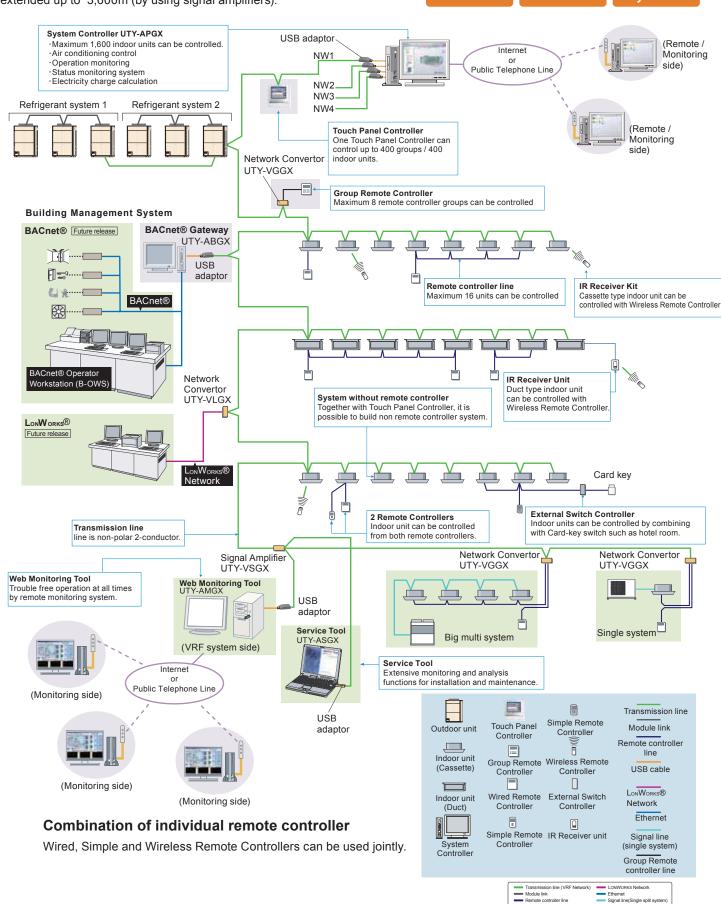
Total wiring length (total length of transmission line) can be extended up to 3,600m (by using signal amplifiers).

Max. Connectable

100
outdoor units

Max. Connectable
400
indoor units

Max. Transmission line length



Comparison table of Controllers

	Item	Wired Remote Controller	Simple Remote Controller	Simple ¹ Remote Controller	Wireless Remote Controller	Group Remote Controller	Touch Panel Controller	System Controller (Software)	
			UTY-RNKY UTY-RHKYT UTY-RNKG	UTY-RSKY UTY-RSKYT UTY-RSKG	UTY-RHKY UTY-RHKYT UTY-RHKG		UTY-CGGY UTY-CGGG		UTY-APGX
Max	x. controllable remote controller ç	groups	1	1	1	1	8	400	1600
Ма	x. controllable indoor units		16	16	16	16	96	400	1600
Ма	x. controllable groups		_	-	_	-	-	400	1600
	On / Off		•	•	•	•	•	•	•
_	Operating mode setting		•	•	_	•	•	•	•
function	Fan speed setting		•	•	•	•	•	•	•
	Room temp. setting		•	•	•	•	•	•	•
control	Room temp. set point limita	tion	-	-	-	•	-	•	•
con	Test operation		•	•	-	•	-	•	-
conditioning	Up/down air direction flap s	etting	•	-	-	•	-	•	•
itior	Right/left air direction flap s	etting	•	-	-	•	-	•	•
puo	Group setting		_	-	-	•	-	•	•
Air c	RC prohibition	_	-	-	-	-	•	•	
4	Anti freeze setting		-	-	-	-	-	•	•
	Economy mode setting		•	-	-	•	-	•	•
	Failure		•	•	•	-	•	•	•
	Defrosting Current time Day of week R.C. prohibition		•	•	•	•	-	•	•
<u>></u>			•	-	-	•	•	•	•
Display			•	-	-	-	•	•	•
Ι			•	•	•	-	-	•	•
	Cooling/heating priority		•	•	•	-	•	•	•
	Address display		•	•	•	-	•	•	•
	System schedule timer		-	_	_	-	-	•	•
		On/off per day	-	_	-	-	-	20	72
		On/off per week	-	-	-	-	-	140	504
	Weekly timer		•	-	-	-	•	-	-
		On/off per day	2	-	-	-	2	-	-
Timer		On/off per week	14	-	-	•	14	-	-
_	On/off timer		•	-	-	•	-	-	-
	Sleep timer		-	-	-	•	-	-	-
	Program timer		-	_	_	•	-	-	-
	Day off		•	-	-	-	-	•	•
	Min. unit of timer setting(Minutes)		30	-	-	5	10	10	10
	Status monitoring system Electricity charge calculation		-	-	-	-	-	•	•
			_	-	-	-	-	-	•
itrol	Error history		•	•	•	-	•	•	•
Contro	Emergency stop		-	-	-	-	-	● *²	-
	Control via internet		-	-	-	-	-	-	•
	E-mail notiffication for malf	unction	_	_	_	_	_	_	•

^{*1 &}quot;Master control" setting is not available for this model.

^{*2} This function is available only through external input. control.

Wired Remote Controller

UTY-RNK*

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

- Max. controllable

 16
 indoor units
- •Simple operation with Built-in Weekly / Daily Timer.
- •Control up to 16 indoor units.
- •Up to 2 wired remote controllers can be connected to a single indoor unit.



Functions

Powerful features and compact size

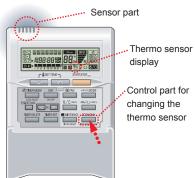
This Wired Remote Controller incorporates four primary functions into a single unit.

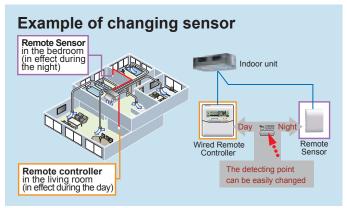


Accurate and comfortable

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

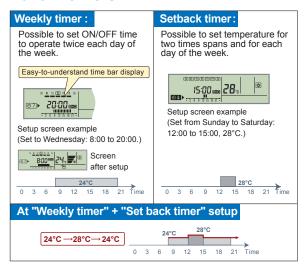
This new wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.





Displayed temperature is set temperature.

Built-in timers



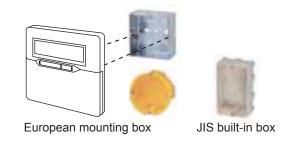
Diagnosis check function

Two methods are available for determining the cause of failure in the event of a malfunction occurs:

- •Malfunction diagnosis function
- •Error history (Last 16 error codes can beaccessed)

Simple installation

Components are compatible with standard switch boxes. Flat back surface allows to be installed wherever it is needed



Specifications

Model name	UTY-RNK*
Power Supply	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 17
Weight (g)	160

Simple Remote Controller

UTY-RSK* UTY-RHK* (Without master control)

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.





UTY-RSK*



UTY-RHK*
Without master control

Functions

User-friendly operation

- •Provides access to basic operations, such as Start / Stop, Fan control, Master control 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.

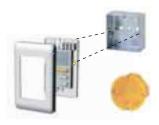
Background light

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



Simple installation

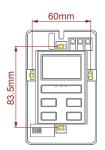
Can be mounted on the European Mounting Box (Installation dimension: 60mm) or the JIS Built-in Box (Installation dimension: 83.5mm).



European switch box



JIS built-in box



Functions

Model Operation	UTY-RSK*	UTY-RHK*
On / Off	•	•
Fan control	•	•
Master control	•	— *1
Room temp. setting	•	•

^{*1: &}quot;Master control" setting is not available.

It is recommend to use together with other type controller.

Specifications

Model name	UTY-RSK*	UTY-RHK*			
Power Supply	DC 12V				
Dimensions (H x W x D) (mm)	120 x 75 x 14				
Weight (g)	90 (100 : UTY-RSKYT)	90 (100 : UTY-RHKYT)			

DC12V is supplied by the indoor unit.

Wireless Remote Controller

UTY-LNH*

Simple and sophisticated operations with a choice of 4 daily timers

• A single controller controls up to 16 indoor units.







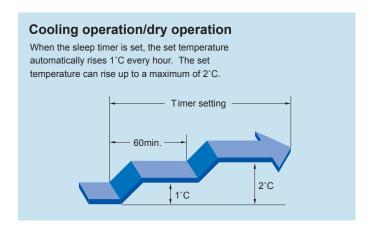
Functions

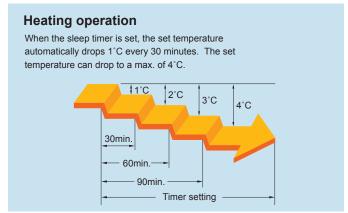
Built-in daily timer

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

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

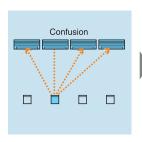
Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

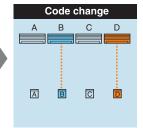




Easy installation and operation

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



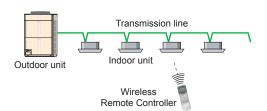


•Wide and precise transmitting range.



System addressing

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



Specifications

Model name	UTY-LNH*
Battery	1.5V (R03 / LR03 / AAA) x 2
Dimensions (H x W x D) (mm)	158 x 56 x 20
Weight (g)	70

H*: HY(FUJITSU), HG(GENERAL)

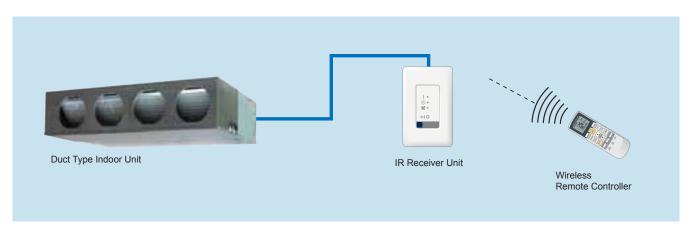
IR Receiver Unit

UTB-*WB

Necessary to control for all duct type by Wireless Remote Controller



Wiring connection



Specifications

Model name	UTB-*WB
Dimensions (H x W x D) (mm)	122 x 60 x 26.5
Weight (g)	150

*WB: YWB(FUJITSU), GWB(GENERAL)

IR Receiver Kit

UTY-LRH*B1

Cassette type indoor unit can be controlled with Wireless Remote Controller



Specifications

Model name	UTY-LRH*B1
Dimensions (H x W x D) (mm)	213.8 x 213.8x 25.7
Weight (g)	140

H*: HY(FUJITSU), HG(GENERAL)

Group Remote Controller

UTY-CGG*



Max. connectable
64
group R.C. in
a VRF network system



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 (UTY-VGGX) is required to connect Group Remote Controllers to a VRF network system.

(Network Convertor allows up to 4 Group Remote Controllers)

Functions

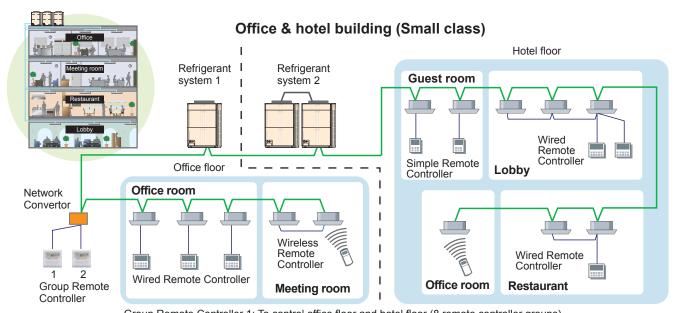
High performance and compact size

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



Control up to 8 remote controller groups

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



Group Remote Controller 1: To control office floor and hotel floor (8 remote controller groups).

Group Remote Controller 2: To control hotel floor (5 remote controller groups).

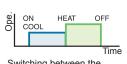
Built-in weekly timers

The weekly timer is provided as a standard function.

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

ON / OFF switching ON OFF ON OFF Time Air conditioning ON/OFF setting corresponding to air

conditioning specification



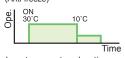
Cooling / Heating switching

Switching between the cooling mode and heating mode can be set by time.

Temperature switching (Peak power cut)

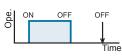
Since peak power cut is performed in a planned way, setting which changes the room temperature linked with time is possible.

Temperature switching (Anti-freeze)



Low temperature heating operation can be set to prevent freezing in cold regions at night, etc.

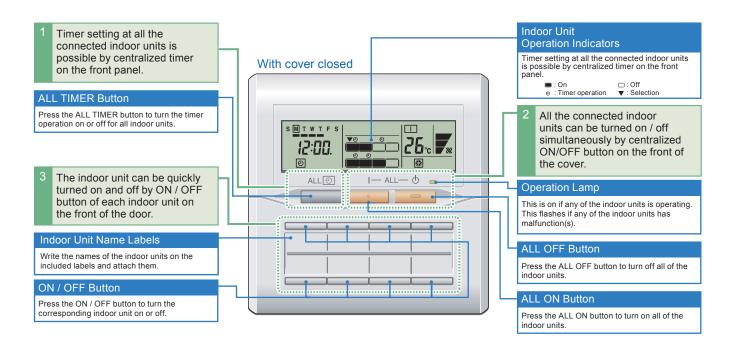
Stop setting

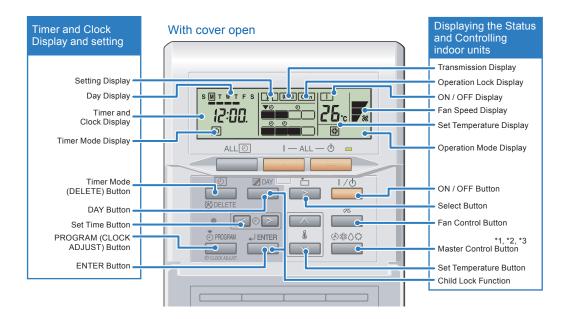


Indoor unit stop setting at operation end time is possible.

needs is possible.

Useful functions





- *1 : "AUTO(A)" is not available for a heat pump model unless it is set up for the master indoor unit.
- *2 : "FAN%" is not available for a heat pump model
- *3 : "HEATO" is not available for a cooling only model

Specifications

Model name	UTY-CGG*
Power Supply	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 17
Weight (g)	200

Touch Panel Controller

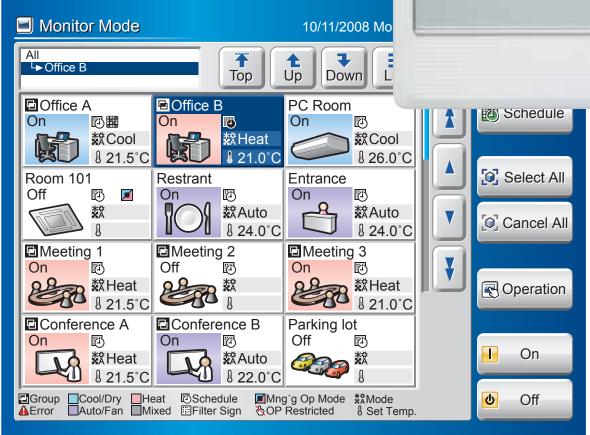
UTY-DTG*

7.5 inch screen

High visibility and easy operation via high resolution 7.5 inch TFT-LCD touch panel screen

Stylish design

Stylish shape and design to suit all applications



Real size screen image

Easy operation

- Large and wide-angled LCD is easily viewable even at a distance
- Easy-to-understand icon-driven Graphical User Interface (GUI)
- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon
- Up-to-date status display
- Background color identifies current control operation Blue for monitoring, green for operational control

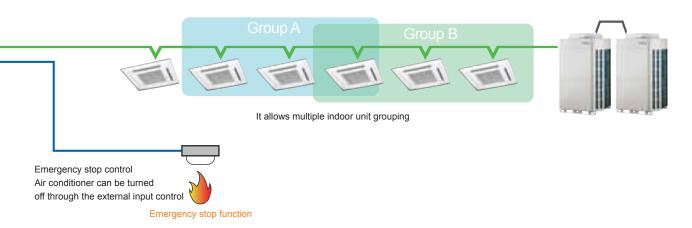


Easy maintenance

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



Up to 400 indoor units can be controlled





• CSV format data edited by PC can be imported to Touch Panel Controller.

Function

- Up to 400 indoor units can be controlled
- It allows multiple indoor units grouping
- Schedule timer function is standard(20 patterns per day)
- Emergency stop function(through the external input control)
- Temperature upper and lower limit setting
- The clock of each indoor unit correct setting



Individual control



Flexible grouping



Schedule control



Indoor units operation monitoring

Easy installation

Touch Panel Controller is easily mounted to the wall Flat back surface allows to be installed wherever it is needed.

• Correctable mechanism for tilting (horizontal) after the installation of the body

No additional component is required for installation

 There is no need for the installation space of power supply adaptor and transmission adaptor etc.



Specifications

Model name	UTY-DTG*
Power Supply	100-240V 50/60Hz
Dimensions (H x W x D) (mm)	260 x 246 x 54
Weight (g)	2,150
Interface	USB 2.0

System Controller Software

UTY-APGX

This system realizes the advanced general monitoring & control of VRF system from small scale buildings to large scale buildings.

Max. controllable

Max. controllable

Max. controllable 600



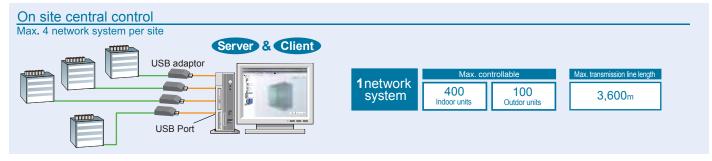
- Up to a maximum of 4 network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- · Supports VRF S series, V series and V-II series.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.

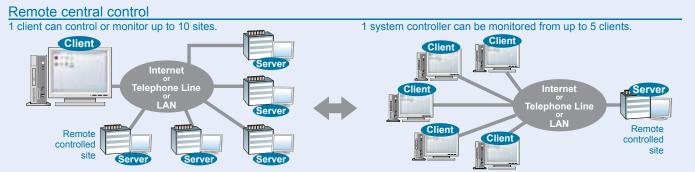
Functions

Remote centralized control

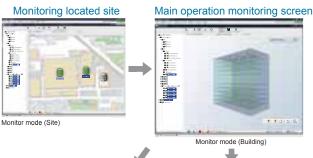
System controller may be used on site or remotely over various networks for remote central control. System controller requires 2 softwares working together. Server program runs in the background and communicate with VRF System. Client program provides user interface and communicate with the Server. Server and client program may run in a single PC or in different PCs separated by network.

By using client software, one PC can perform central control and web control of 10 VRF system sites with max. 20 buildings per site.

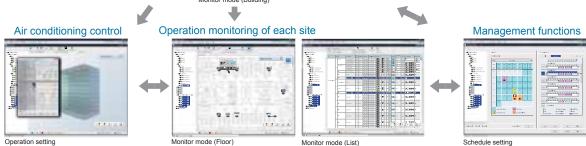




User friendly view and operation

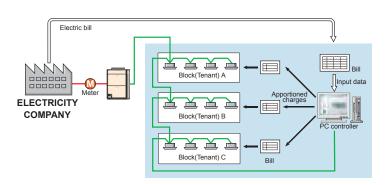


- · Provides graphical view of units layout as site , building and floor layout just as they are located in the actual sites.
- Unit status may be monitored at a glance, selecting the appropriate view that just fit your purpose.
- · Control may also be performed from various views as individual unit or as a whole site, building or a whole floor.
- · User defined groups, that are neatly arrange as tree view, easy to find, monitor and operate.



Electricity charge calculation

- •Total electricity charge, billed for multiple indoor units connected to the charge meter for air conditioning, is apportioned according to the accumulated operation time and indoor unit capacity.
- •Allows accounting for special rates (e.g., for night or weekend use).
- •Calculations can be printed as final bills format.



Note: This electrical power apportioning calculation is not official.

When issued to the user as a bill, it must be explained to the user in advance.

Schedule control

- •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 recorded 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.



Schedule Control

Error display

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



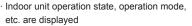
Operating & control record

Displays the history of operation status and control.



Operation Record

Diverse control of indoor units





- · Indoor unit start/stop and operation mode switching
- $\cdot \ \, \text{Temperature setting, Remote Controller prohibition}.$

Energy saving function

Energy saving operation considering comfort by economy setting, upper/lower limit temperature setting, etc.



OPERATING CONDITIONS

The following chart shows the detail requirement for an AT compatible personal computer to run System Controller. Applies for both server and client software.

Personal Computer		AT compatible machine that runs Microsoft® Windows®
Operating System		Microsoft® Windows® Vista Home Premium, Business, Ultimate Edition Microsoft® Windows® XP Professional with Service Pack2 or later
	CPU	Intel® Pentium® / Celeron 2GHz (Server), 1GHz (Client) or higher
	HDD	40GB or more of free space (5GB for Client PC)
Memory Display Interface		1GB or more
		1024 x 768 dots or more. 15 inch or higher size is preferable.
		USB port is required for each of the followings for Server PC; -Wibu Key (Software protection key) - Echelon® U10 USB Network Interface (Required for each VRF Network) Ethernet port is required for remote connection using internet.
Other Software Required		Adobe® Acrobat® reader 4.0 or later
Accelerator		Requires the internal graphics accelerator be compatible with Microsoft® DirectX® 9.0 or later.

<PACKING LIST>

Item	Q'ty	Application	
CD-ROM	1	Includes the software for System Controller. Both server and client software is included.	
Wibu Key	1	Software protection key to be inserted in a USB slot running System Controller.	
(Soft ware protection key)		System Controller may only run on a PC with Wibu Key. Remote client software does not require Wibu Key.	

Personal computer must be field supplied

U10 USB Network Interface must be field supplied. Contact EchelonR Corporation or its local sales representative for detail.

Product Name: U10 USB Network Interface - TP/FT-10 Channel Model Number: 75010R

Trouble trainer of the dest returned internation of the strainer industrial i

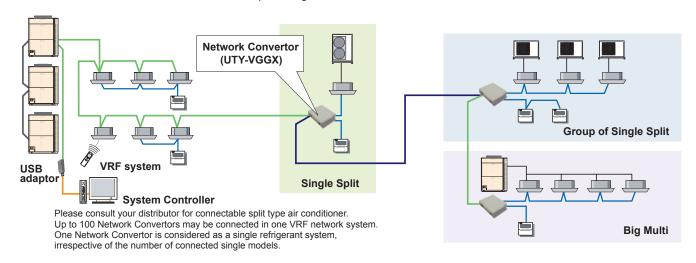
Network Convertor

UTY-VGGX

- •This Network Convertor is to be used for connecting single split system or Group Remote Controller (UTY-CGGY/UTY-CGGG) with the VRF system.
- •Please select the function by switching the dip switch during the installation.

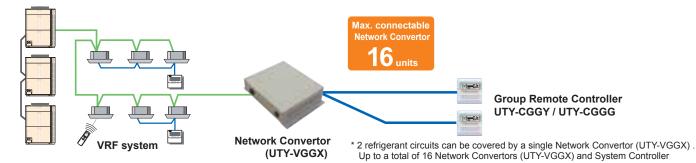
Used for connecting single split system

- *Split type systems can be centrally controlled from Touch Panel Controller or System Controller through connection to the VRF's network convertor.
- •On / Off Control, Master control, Room temperature and Fan speed setting via the Network Convertor are available.
- •One Network Convertor can be used to connect and control up to 16 single units.



Used for connecting Group Remote Controller

•4 Group Remort Controllers can be connected to a single Network Convertor (UTY-VGGX).

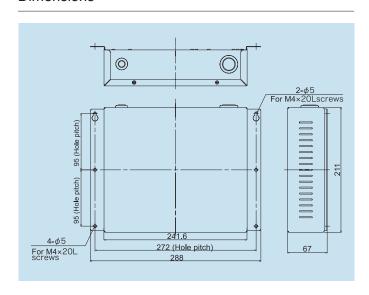


Specifications

Model name	UTY-VGGX
Power Supply	220-240V 50/60Hz
Power Consumption (W)	6.5
Dimensions (H x W x D) (mm)	67 x 288 x 211
Weight (g)	1,500

Dimensions

adaptors can be connected in a single VRF system.



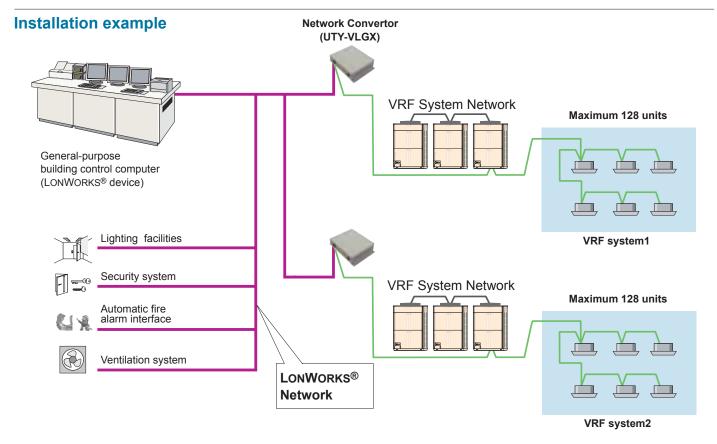
- mananana

Network Convertor for LonWorks® (Future Release)

UTY-VLGX



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



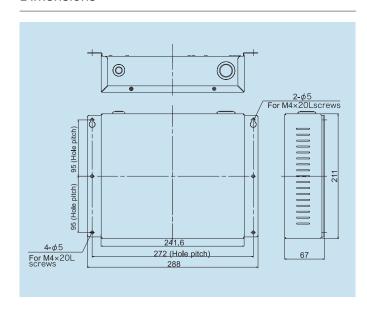
Specifications

Model name	UTY-VLGX
Power Supply	220-240V 50/60Hz
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	78kbps
Transceiver	FTT-10A
Transmission way form	Free topology
Termined resistor	None (It attaches at the terminal of a network.)

Dimensions



BACnet® Gateway Software

(Future Release)

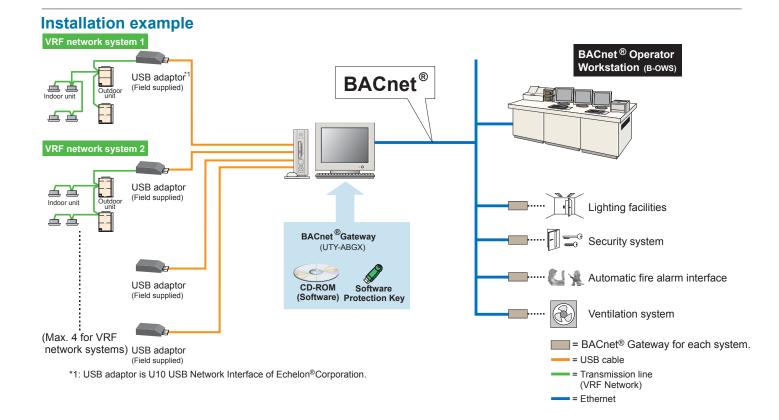
UTY-ABGX

VRF system

Max. controllable 400



- •The VRF system can be incorporated into a Building Management System.
- •Enables central control of up to 1,600 indoor units through BACnet®, a global standard for open networks.
- •Conforms to ANSI / ASHRAE Standards® 135-2001 BACnet® Application Specific Controller (B-ASC) BACnet® / IP over Ethernet.
- •Connects up to 4 VRF systems (1,600 indoor units / 400 outdoor units) per gateway.
- •Ideal for applications in high rise buildings and hotels, etc.



Requirements of PC for this software

Personal Computer		AT compatible machine that runs Microsoft® Windows®
Operating System		Microsoft® Windows® Vista Home Premium, Business, Ultimate Edition
		Microsoft® Windows® XP Professional with Service Pack2 or later
	CPU	Intel® Pentium® / Celeron 2GHz or higher
	Memory	1GB (Vista) , 512MB (XP) or more
Display		1024 x 768 dots or more
Interface		USB port is required for each of the followings;
	nterface	-Wibu Key (Software protection key)
interlace		- Echelon® U10 USB Network Interface (Required for each VRF Network)
		Ethernet port is required
Other Software Required		Adobe® Acrobat® reader 4.0 or later
<packing list<="" td=""><td>></td><td></td></packing>	>	
Packing List		CD-ROM / Wibu Key

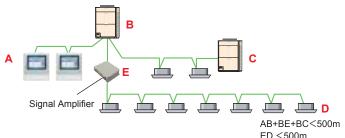
Signal Amplifier

UTY-VSGX

- •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,
- (1) When the total wiring length of the transnission line exceeds 500m.
- (2) When the total number of units on the transnission line exceeds 64.



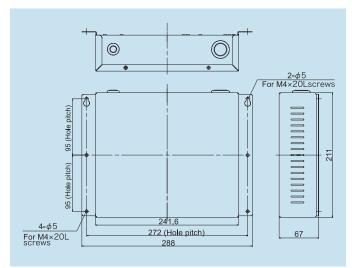
Installation example



Specifications

Model name	UTY-VSGX
Power Supply	220-240V 50/60Hz
Power Consumption (W)	4.5
Dimensions (H X W X D) (mm)	67 X 288 X 211
Weight (g)	1,500

Dimensions



External Switch Controller

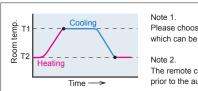
UTY-TEKX

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

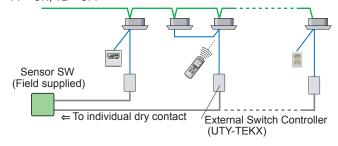
 Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.
 Note: All indoor units will operate in the same mode.



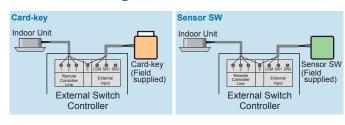
Note 1. Please choose a thermosensor switch which can be set up for T1 and T2.

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

T1 = ON, T2 = OFF



Electrical wiring



Specifications

Model name	UTY-TEKX
Power Supply	DC 12V
Dimensions (H x W x D) (mm)	120 x 75 x 30
Weight (g)	90

DC12V is supplied by the indoor unit

Service Tool

Software

UTY-ASGX

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 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

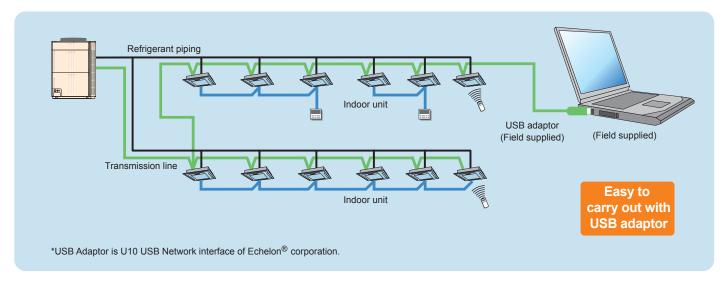
100
outdoor units

Max. Monitor and controll

400
indoor units

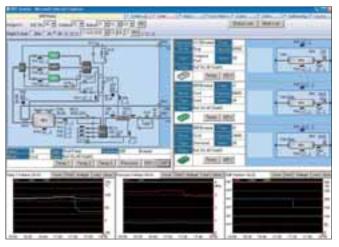


Wiring connection



Functions

Equipment Detail (Diagram)



Displays the detail information for sensor values, electrical components etc. for the specified units in schematic. The information here can be used along with the detail information in list form, to check the operation status of units and make detail analysis on the cause, in case an error occurs.

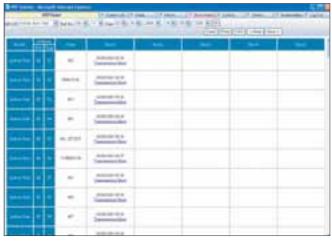
Equipment Detail (List)



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

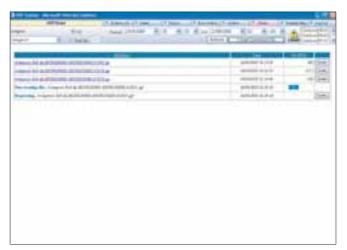
The information here can be used along with the detail information in diagram form, to check the operation status of units and make detail analysis on the cause, in case an error occurs.

Error History



Displays the error information for each unit. The error information can sequentially be displayed up to 50 items as they occur starting with

Remote File Download



Operation and error history data can be downloaded. Only the required data may be downloaded specifying the refrigerant system, unit and time range.

System List



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

Commissioning Tool

Test run commands can be executed with this tool.

During test running, the outdoor unit / indoor unit sensor data can be saved (commissioning log data).

After the end of test running, this data can be exported in CSV file format.

Requirements of PC for this software

Personal Computer		AT compatible machine that runs Microsoft® Windows®	
		Microsoft® Windows® 2000 Professional (English version / Service pack4 or later)	
	Operating System	Microsoft® Windows® XP Professional (English version / Service pack2 or later)	
		Microsoft® Windows® Vista Home Premium, Business, Ultimate Edition. (English version)	
	CPU	Intel® Pentium® / Celeron®, AMD Athlon™ / Duron™ 1GHz or higher	
HDD Memory	HDD	4.1 GB or more of free space	
	Memory	1GB (Vista) , 512 MB (XP/2000) or more	
	Interface	USB port is required for each of the following ; -Wibu Key(Software protection key) -Echelon® U10 USB Network Interface(Required for each VRF Network)	
Software Hardware		Internet Explorer 6.0 or later / Adobe® Acrobat® Reader 4.0 or later USB Adaptor is U10 USB Network interface of Echelon® corporation.	
Packing List		CD-ROM / Wibu Key	

Web Monitoring Tool Software

UTY-AMGX

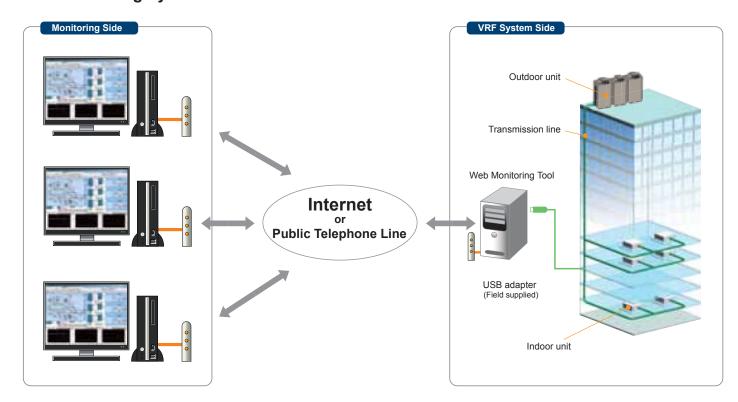
VRF system can be supported

1600 Indoor unit can be monitored

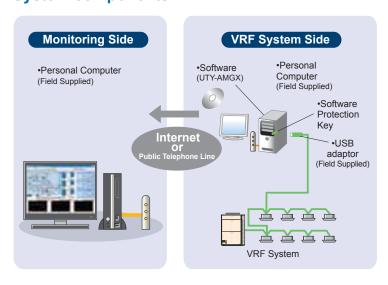
Product features

- •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:USB of internet mail system required.

Web Monitoring System

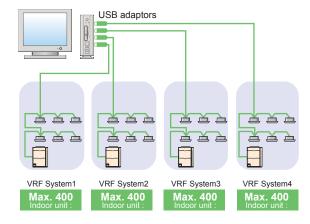


System components



Support 4 VRF system

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



Comparison table

No.	Item	Service Tool	Web Monitoring Tool UTY-AMGX	
No.		UTY-ASGX	Monitoring Side	VRF System Side
1	Interchangeability of equipment	•	•	•
2	Indication of equipment list	•	•	•
3	Operation control	•		•
4	Indication of refrigerant circuit diagram	•	•	•
5	Commissioning tool	•	_	•
6	Monitoring of equipment information	•	•	•
7	Monitoring of operating condition	•	•	•
8	Monitoring of sensor data	•	•	•
9	Storage and CSV output of operating history (sensor data)	•	•	•
10	Indication of trend graph	•	•	•
11	Printing of trend graph	•	•	•
12	Monitoring and screen display of abnormalities	•	•	•
13	E-mail automatic transmission of abnormalities	_	_	•*1
14	Setting for user level	_	_	•

^{*1} Available only during a connection to the Internet.

Requirements of PC for this software

Personal Compute	ır	AT compatible machine that runs Microsoft® Windows®	
	Operating System	Microsoft® Windows® 2000 Professional (English version / Service pack4 or later) Microsoft® Windows® XP Professional (English version / Service pack2 or later) Microsoft® Windows® Vista Home Premium, Business, Ultimate Edition. (English version)	
	CPU	Intel® Pentium® / Celeron®, AMD Athlon™ / Duron™ 1GHz or higher	
HDD		4.1 GB or more of free space	
Memo	Memory	1GB or more	
	Interface	USB port is required for each of the following; -Wibu Key(Software protection key) -Echelon® U10 USB Network Interface(Required for each VRF Network) Ethernet port is required for remote connection using internet.	
Software Hardware		Internet Explorer 6.0 or later / Adobe® Acrobat® Reader 4.0 or later USB Adaptor is U10 USB Network interface of Echelon® corporation.	
Packing List		CD-ROM / Wibu Key	

Optional Parts

Connection Tube

Separation Tube

Model: UTR-BP090X



Separation Tube

Model: UTR-BP180X



Separation Tube

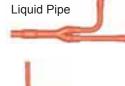
Model: UTR-BP567X

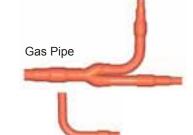
Liquid Pipe



Outdoor Unit Branch kit

Model: UTR-CP567X





Header

Model :UTR-H0906L UTR-H1806L



Header

Model: UTR-H0908L UTR-H1808L

Gas Pipe



Outdoor unit Branch kit

Model name		UTR-CP567X
Number of Outdoor unit	2 outdoor units	1
Number of Outdoor unit	3 outdoor units	2

Separation Tube

Model name	UTR-BP090X	UTR-BP180X	UTR-BP567X
Total model code of indoor unit	90 or less	91 to 180	181 or more

Header

Model name	6 Branches	UTR-H0906L	UTR-H1806L
	8 Branches	UTR-H0908L	UTR-H1808L
Total model code of indoor unit		90 or less	91 to 180

EV Kit

Model name	UTR-EV09XB	UTR-EV14XB
Application Model	AS*E07LACH	AS*E12LACH
	AS*E09LACH	AS*E14LACH

AS*: ASY(FUJITSU), ASH(GENERAL)

Others

Flange (Round)

Model: UTD-RF204

For Low Static Pressure Duct type / Duct type



Flange (Square)

Model: UTD-SF045T

For Low Static Pressure Duct type / Duct type



Long-Life Filter

Model: UTD-LF25NA

For Low Static Pressure Duct type/Duct type



Long-Life Filter

Model: UTD-LF60KA

For High Static Pressure Duct type



Drain Pump Unit

Model: UTZ-PX1BBA For Compact Duct type

Model: UTZ-PX1NBA For Low Static Pressure Duct type and Duct yype



IR Receiver Unit

Model: UTB-YWB **UTB-TWB** For All Duct type



Remote Sensor Unit

Model: UTD-RS100

New amenity space can be offered by installing the Remote sensor in the remote controller.

For All Duct type



Drain Pump Unit

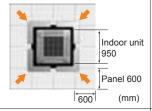




Wide Panel

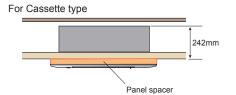
Model: UTG-AGYA-W

For Cassette type



Panel Spacer

Model: UTG-BGYA-W



IR Receiver Kit

Model: UTY-LRHYB1 UTY-LRHGB1

For Cassette type



Air Outlet Shutter Plate

Model: UTR-YDZB

Shuts the air outlet when only using as 2 or 3 blow out.

For Cassette type



Air Outlet Shutter Plate

Model · UTR-YDZC

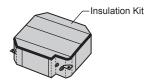
Shuts the air outlet when only using as 2 or 3 blow out.

For Cassette type



Insulation Kit for High Humidity

Model: UTZ-KXGA (For Cassette type) UTZ-KXGB (For Slim Cassette type) UTZ-KXGC (For Compact Cassette type)



Grille Kit

Model: UTG-UFYC-W UTG-UFGC-W

For Compact Cassette type



Grille Kit

Model: UTG-UGYA-W UTG-UGGA-W

For Cassette type



EV Kit Model code < 09 : UTR-EV09XB

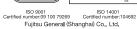
Model code ≥ 12 : UTR-EV14XB

For Compact Wall Mounted type













ISO 9001 ISO 14001 ISO 14001 ISO 9001 Certified number:09 100 89394 Certified number:09 104 9245 Fujitsu General (Thailand) Co., Ltd.



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requirements for Electromagnetic
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