

FUJITSU



The Intelligent Choice in Comfort

# 2010 PRODUCT CATALOGUE

Air Conditioner of Fujitsu General

FUJITSU GENERAL LIMITED

# Creation of Comfort



Fujitsu General creates high-quality and environmentally-friendly products that provide good comfort in accordance with our basic policy to a “create comfortable environment” by utilizing the air conditioning technology and creativity we have fostered over many years.





## Creating top-class Products with Better Energy Saving and Comfort.

Creating top-class products that exceed the energy saving standards of a variety of areas by expanding the range of models incorporating new refrigerant and inverter technology to create our original energy saving technology that achieves both energy saving and comfort.



**V-PAM**  
V-PAM technology makes the compressor more powerful.

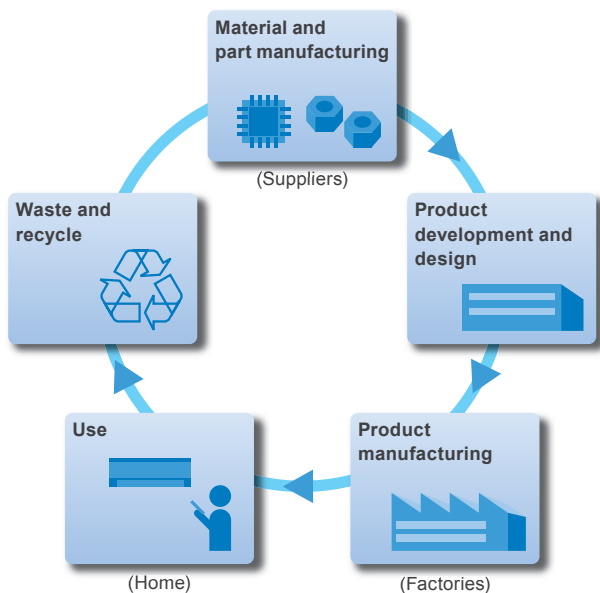


Automatic filter cleaning air conditioner



## Harmony between Global Environmental Protection and Company Activities

The Fujitsu General Group strives for business activities that achieve harmony between contributing to protecting the global environment and company activities while making environmental protection activities an important issue in company management. The Fujitsu General Group is working to improve its environmental friendliness by building an environmental management system (EMS); taking environmental protection measures throughout the product lifecycle of materials procurement, product development and design, manufacturing, and recycling; and by taking the environment into consideration during business activities such as by saving energy and resources and reducing waste.



## High-quality Development Environment

The Headquarters-Kawasaki R&D Center is equipped with a wide range of testing equipment envisioning a variety of operating conditions. This includes a testing tower with a 60m height difference for simulating use of multi air conditioning system for buildings. We create new products that exceed strict development and quality standards to meet the needs of the next generation as well as the requirements of today's market.



Kawasaki R&D Center and 60m height difference testing tower

# All Technologies for Energy Saving

A variety of attractive and world-leading energy saving technologies and controls are incorporated into all products to aim for energy saving throughout the year.

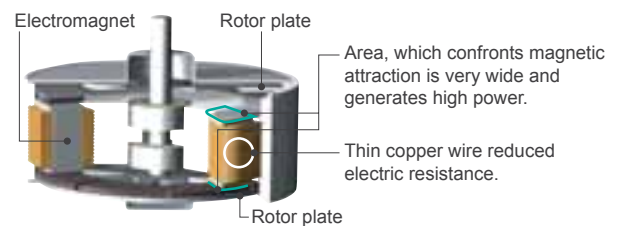
## All DC Saves Energy Throughout the Year

By making all the motors DC, electricity loss is decreased and power consumption is substantially reduced. In addition, fan motor high speed rotation is possible, and heat exchange efficiency is increased and annual power consumption amount is saved by increasing the airflow.



### Axial Gap Fan Motor

Compact size with 1.5 more power output Self-driven method increases rotating efficiency by 10%. Our electromagnetic field simulation technology enables low vibration and low noise.



### High Efficiency DC inverter type "2-cylinder rotary compressor"

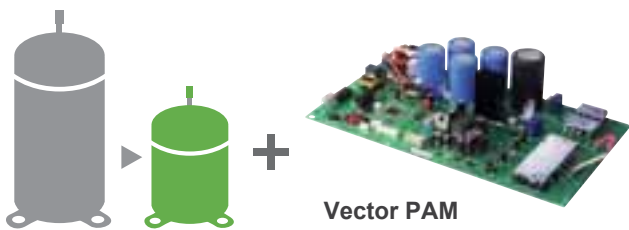
The high efficiency DC inverter type "2-cylinder rotary compressor" is used for large capacity of split system. It has achieved 5% higher energy efficiency compared with equal class of compressors by optimizing the structure inside the compressor.





**V**  
V-PAM  
**Vector PAM Inverter**  
(I-PAM + vector control)

The voltage of the compressor and the timing of the current connection are enhanced. This is the advanced technology of PAM control system which improved the maximum compressor speed and operation efficiency.



**Miniaturization of conventional compressor**

**Vector PAM**  
It became more powerful by the newly developed high efficient compressor motor control "Vector PAM Technology"

**COP (Coefficient of Performance)**

6 years ago ASY13PA **3.01**

This year AWYZ14LB **4.44**

**i**  
i-PAM  
**I-PAM Control**  
(PAM+IPM)

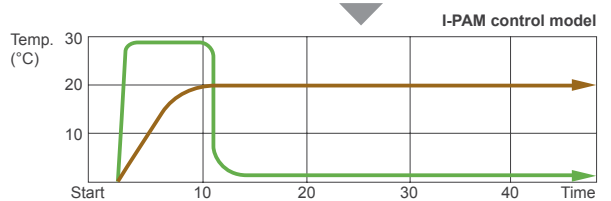
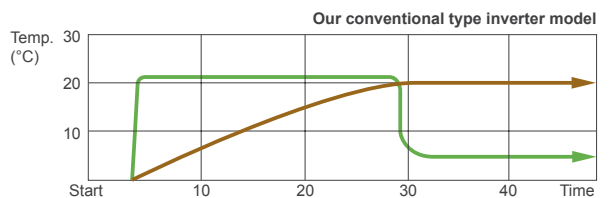


IPM board made the conventional inverter PAM control possible to obtain high-voltage and high power at the time of operation starts. The preset temperature is kept with low voltage during the stable operation. Thus, higher performance and more energy saving are realized than the current inverter models.

"I-PAM (Intelligent power module-Pulse Amplitude Modulation)"

**Energy saving and speedy heating only possible by I-PAM**

Attain your desired temperature just 1/3 of time comparing to our conventional inverter models.



— Voltage and speed of compressor motor — Temperature of 10cm above the floor  
Illustrations and graphs may differ from actual state.



# Class A Proves Trust



Our models have earned the “Class A” ranking, the highest energy saving standard that is shown on energy labels in Europe.

## Energy-Efficiency Classifications

According to a new EC Directive, the indication of the Energy Efficiency classification on household air conditioners became compulsory. This aims to provide consumers with clear and objective information regarding energy-saving, and to encourage them to select products that are environmentally friendly. An Energy Label, like that shown in the sample below, will be provided in shop displays. In the label, the equipment is rated, with "A" being the most efficient. You may notice these labels and ratings appearing soon in shops that sell air conditioners. For easy understanding, the following information will be indicated for each model.



Energy Label

<b>Energy</b>		Air-conditioner	The product
Manufacturer Outside unit Inside unit		FUJITSU AO-*** AS-***	The model number
<b>More efficient</b>  <b>Less efficient</b>		<b>A</b>	The class An energy efficiency class in seven steps, from A to G.
Annual energy consumption, kWh in cooling mode <small>(Actual consumption will depend on how the appliance is used and climate)</small>		***	Annual energy consumption The annual energy consumption is calculated by multiplying the total power input by an average of 500 hours per year in cooling mode at full load.
Cooling output Energy efficiency ratio <small>Full load (the higher the better)</small>		***	The Energy Efficiency Ratio The higher the EER, the greater the energy efficiency.
Type Cooling only Cooling + Heating Air cooled Water cooled		← ←	The type of air conditioner
Heat output Heating performance <small>A: higher G: lower</small>		*** A	The noise
Noise <small>(dB(A) re 1 pW)</small>		*** ***	Outdoor Indoor
Further information is contained in product brochures			
Norm EN 814 Air-conditioner Energy Label Directive 2002/31/EC			

## Classifications

There are seven classifications of energy efficiency, from A to G. The most efficient level is "A" and the least efficient level is "G".

Energy efficiency class of the unit in COOLING mode	Energy efficiency class of the unit in HEATING mode
<b>A</b> 3.20 < EER	<b>A</b> 3.60 < COP
<b>B</b> 3.20 ≥ EER > 3.00	<b>B</b> 3.60 ≥ COP > 3.40
<b>C</b> 3.00 ≥ EER > 2.80	<b>C</b> 3.40 ≥ COP > 3.20
<b>D</b> 2.80 ≥ EER > 2.60	<b>D</b> 3.20 ≥ COP > 2.80
<b>E</b> 2.60 ≥ EER > 2.40	<b>E</b> 2.80 ≥ COP > 2.60
<b>F</b> 2.40 ≥ EER > 2.20	<b>F</b> 2.60 ≥ COP > 2.40
<b>G</b> 2.20 ≥ EER	<b>G</b> 2.40 ≥ COP

These classifications are for split and multi-split air conditioners.



# More Comfort

## Low Noise Operation Technology

The noise from indoor and outdoor units has been greatly reduced by utilizing advanced refrigerant simulation, efficient blower mechanism design, and low noise control technology. We pursue quieting technologies for all applications from residential to commercial to provide you with a pleasant air-conditioned life.



## Clean & Convenience

### Clean & Energy Efficiency Technology

Fujitsu General has developed industry-leading unique products such as an automatic filter cleaner that keeps the air clean while reducing lost efficiency and a washable front panel that can be easily removed and cleaned. We create new air conditioners that reflect potential user needs while also achieving both energy saving and comfort.

Automatic filter cleaner  
**WORLD FIRST**<sup>\*1</sup>



Washable panel



\*1: Announced September 9, 2002. In room air conditioner for the home (Our company's investigation)

### User Friendly Control

Fujitsu General is using ergonomics to expand the use of user friendly designs such as easy-to-read large LCD displays, easy-to-operate buttons, and displays with easily recognizable colors and icons. We are producing control systems that provide greater convenience for both individual and centralized control with operability suitable for the application and such features as one-touch selection and a range of batch control operation methods.



Large-sized liquid crystal remote controller



Touch panel controller for VRF system

# 2010 New Products

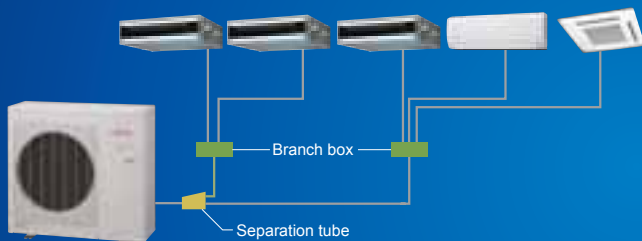
## Split **P22**

8.0kW inverter  
single split  
Wall Mounted type



## 8 Rooms Multi **P70**

14kW 8-rooms inverter multi split

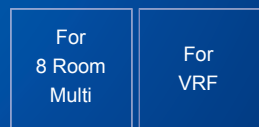


Model code	7	9	12	18	24
Compact Wall Mounted					
Wall Mounted					
Compact Cassette					
Floor					
Slim Duct					

## Slim Duct **P72**

Range 2.2 kW to 7.1 kW

- Slim design with drain pump
- Increase static pressure
- Dual concealed type



## Air to Water **P146**

Powerful heating and High efficiency at low outdoor temperature



### Split type

3-phase High power model



### Monobloc type

Single-phase  
Compact model





# Contents



**014**

## Split

Ceiling Wall  
Wall Mounted  
Floor  
Compact Cassette  
Cassette  
Floor / Ceiling  
Ceiling  
Compact Duct  
Duct  
High Static Pressure Duct

**060**

## Multi Split

2 & 3-4 Rooms Multi  
8 Rooms Multi  
Simultaneous Multi  
Big Multi

**078**

## VRF

AIRSTAGE™ J  
AIRSTAGE™ S  
AIRSTAGE™ V-II  
Control System

**134**

## Optional Parts

**138**

## Energy Recovery Ventilator

**142**

## Window

**144**

## Air to Water

High Power  
Comfort  
Compact



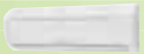
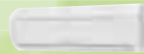




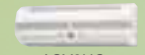














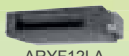




**152**




## Deodoriser


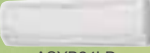
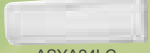
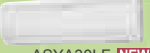
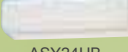
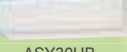













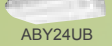




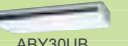
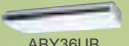
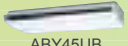
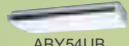
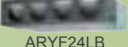
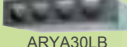
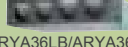
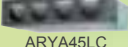
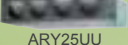
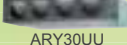
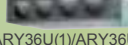
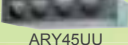




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
## Feature Explanation

# All Type Lineup Split & Multi Split

Split		2.0	2.6	3.5	4.1	5.3
Capacity (kW)		7	9	12	14	18
Model Code						
Ceiling Wall ▶ 016 page	INVERTER					
					AWYZ14LB	AWYZ18LB
Wall Mounted Plasma ▶ 018 page	INVERTER					
			ASYB09LD	ASYB12LD		ASYB18LD
Wall Mounted ▶ 020 page	INVERTER					
		ASYA07LG	ASYA09LG	ASYA12LG	ASYA14LG	ASYA18LE
	Constant					
		ASY7UB	ASY9UC	ASY12UC	ASY14UB	ASY18UB
Floor ▶ 028 page	INVERTER					
			AGYF09LA	AGYF12LA	AGYF14LA	
Compact Cassette / Cassette ▶ 030 page	INVERTER					
				AUYF12LA	AUYF14LA	AUYF18LB
	Constant					
				AUY12UB	AUY14UB	AUY18UB
Floor / Ceiling ▶ 040 page	INVERTER					
						ABYF18LB
	Constant					
					ABY14UB	ABY18UB
Ceiling ▶ 044 page	INVERTER					
	Constant					
Compact Duct / Duct ▶ 048 page	INVERTER					
				ARYF12LA	ARYF14LA	ARYF18LB
	Constant					
		ARY7UU	ARY9UU	ARY12UU	ARY14UU	ARY18UU
High Static Pressure Duct ▶ 056 page	INVERTER					
	Constant					

Multi Split						
Up to 2 Units ▶ 062 page	INVERTER					
					AOYA 14LAC2	NEW AOKA 18LAC2
Up to 3 Units ▶ 062 page	INVERTER					
						AOYA 18LAT3
Up to 4 Units ▶ 062 page	INVERTER					
Up to 8 Units ▶ 070 page	INVERTER					
Simultaneous Multi Twin / Triple ▶ 074 page	INVERTER					
Big Multi ▶ 076 page	Individual	Constant				
	Simultaneous	Constant				





7.1 24	8.8 30	10.6 36	13.2 45	15.8 54	17.6 60	26.4 90
 AWYZ24LB						
 ASYB24LD						
 ASYA24LC	 ASYA30LF <b>NEW</b>					
 ASY24UB	 ASY30UB					
 AUYF24LB	 AUYA30LB	 AUYA36LB/AUYA36LC	 AUYA45LA	 AUYA45LC	 AUY54LU	 AUYA54LC
 AUY25UU	 AUY30UU	 AUY36UU	 AUY45UU	 AUY54UU		
 ABYF24LB						
 ABY24UB						
	 ABYA30LB	 ABYA36LB/ABYA36LC	 ABYA45LC	 ABYA54LC		
	 ABY30UB	 ABY36UB	 ABY45UB	 ABY54UB		
 ARYF24LB	 ARYA30LB	 ARYA36LB/ARYA36LC	 ARYA45LC			
 ARY25UU	 ARY30UU	 ARY36U(1)/ARY36UU	 ARY45UU			
			 ARY45LH/ARYC45LC	 ARY54LU/ARYC54LC		
					 ARY60UU	 ARY90TL

 AOY 24LMAM2						
 AOYA 24LAT3						
	 AOY 30LMAW4					
			 AOYA 45LAT8 <b>NEW</b>			
		 AOYD 36LATT	 AOYD 45LATT	 AOYD 54LATT		
					 AJYA 90EATA	 AJYA 90TATA
					 AJYA 90EATB	 AJYA 90TATB




# All Type Lineup VRF & Window, Air to Water, Deodoriser

## VRF

Capacity (kW)	15.2	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5
HP	6	8	10	12	14	16	18	20	22	24	26
<b>J series</b> Heat Pump	 AJYA 54LCLR										
▶ 080 page											
<b>INVERTER</b>											
<b>S series</b> Heat Recovery	 AO90MPCMF										
▶ 088 page											
<b>INVERTER</b>											
<b>V-II series</b> Space saving Heat Pump											
▶ 098 page											
<b>INVERTER</b>											
Set Model	AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY162LALH	AJY180LALH	AJY198LALH	AJY216LALH	AJY234LALH	
Unit 1	AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJYA90LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY126LALH
Unit 2						AJYA72LALH	AJYA72LALH	AJYA90LALH	AJY108LALH	AJY108LALH	
Unit 3											
<b>V-II series</b> Energy efficiency Heat Pump											
▶ 098 page											
<b>INVERTER</b>											
Set Model					AJY144LALHH			AJY198LALHH	AJY216LALHH	AJY234LALHH	
Unit 1					AJYA72LALH			AJY126LALHH	AJYA72LALH	AJYA90LALH	
Unit 2					AJYA72LALH			AJYA72LALH	AJYA72LALH	AJYA72LALH	
Unit 3									AJYA72LALH	AJYA72LALH	

## Window

▶ 142 page

Capacity (kW)	2.8	3.5	4.6
Model Code	9	12	16
<b>Constant</b>	 AKY9UB      AMY12UA      AFY16UA		

## Air to Water

Capacity (kW)	5	6	8
Model Code	50	65	80
<b>High Power model</b> <b>NEW</b>			
▶ 146 page			
<b>INVERTER</b>			
Indoor Unit			
Outdoor Unit			
<b>Comfort model</b>			
▶ 146 page			
<b>INVERTER</b>			
Indoor Unit	WSYA050DA	WSYA065DA	WSYA080DA
Outdoor Unit	AOYA18LALL	AOYA18LALL	AOYA24LALL
<b>Compact model</b> <b>NEW</b>	 WPYA080LA		
▶ 147 page			
<b>INVERTER</b>			

78.5 28	85.0 30	90.0 32	95.0 34	100.5 36	107.0 38	112.0 40	118.5 42	123.5 44	130.0 46	135.0 48
AJY252LALH	AJY270LALH	AJY288LALH	AJY306LALH	AJY324LALH	AJY342LALH	AJY360LALH	AJY378LALH	AJY396LALH	AJY414LALH	AJY432LALH
AJY144LALH	AJY144LALH	AJY144LALH	AJY108LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY144LALH	AJY144LALH	AJY144LALH	AJY144LALH
AJY108LALH	AJY126LALH	AJY144LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY144LALH	AJY144LALH
			AJYA90LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY126LALH	AJY144LALH
AJY252LALHH	AJY270LALHH	AJY288LALHH	AJY306LALHH	AJY324LALHH		AJY360LALHH	AJY378LALHH	AJY396LALHH		
AJY108LALH	AJY126LALH	AJY108LALH	AJY126LALH	AJY126LALH		AJY126LALH	AJY126LALH	AJY144LALH		
AJYA72LALH	AJYA72LALH	AJY108LALH	AJY108LALH	AJY126LALH		AJY126LALH	AJY126LALH	AJY126LALH		
AJYA72LALH	AJYA72LALH	AJYA72LALH	AJYA72LALH	AJYA72LALH		AJY108LALH	AJY126LALH	AJY126LALH		

10 95	11	13 128	14	16 155
	<b>NEW</b> 		<b>NEW</b> 	<b>NEW</b> 
	WSYK160DA9 WOYK112LAT		WSYK160DA9 WOYK140LAT	WSYK160DA9 WOYK160LAT
WSYA095DA AOYA30LBTL		WSYA128DA AOYA45LBTL		WSYA155DA AOY54LJBYL
<b>NEW</b> 				
WPYA100LA				

**Deodoriser**

► 152 page

Capacity (m <sup>3</sup> /h)	3.0
Model Code	30

**INVERTER** →

DASY30S

# Split

Energy saving design to provide a comfortable indoor environment while being environment-friendly.

An air conditioner that is people-friendly is also environment-friendly. Fujitsu General offers a broad lineup of products from large living rooms to bedrooms and children's rooms. We make your room more comfortable with a wide range of air conditioner types from ceiling wall type with automatic filters and cleaning functions to wall mounted type that improve the air cleaning function. Of course these models feature highly efficient operation that conserves electricity.



**016** Ceiling Wall



**018** Wall Mounted



**028** Floor

**030** Compact Cassette



10 types  
84 models

**034** Cassette

**040** Floor / Ceiling



**044** Ceiling

**048** Compact Duct



**052** Duct

**056** High Static Pressure Duct



The background of the advertisement is a photograph of a modern, bright living room. It features white sofas and armchairs, a wooden coffee table with a teapot and fruit, and framed artwork on the wall. Large windows in the background let in natural light. A green horizontal bar is overlaid on the middle of the image, containing the text.

The Intelligent Choice in Comfort  
Split type Air Conditioners

# INVERTER Ceiling Wall

7th year of record achievements.  
Automatic filter cleaning air conditioner



For AWYZ14 / 18LB



For AWYZ24LB

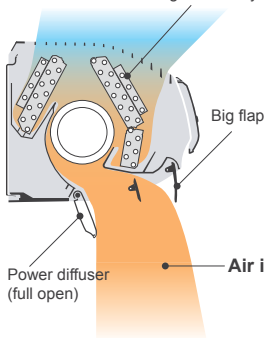
CLASS ALL  
A DC  
AWYZ14LB

CLASS ALL  
A DC  
AWYZ18LB

CLASS ALL  
A DC  
AWYZ24LB

## "Vertical airflow" provides powerful floor level heating

Increased heat exchange efficiency

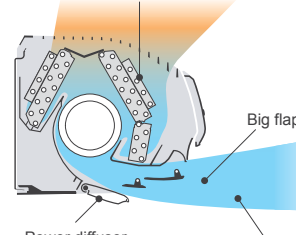


Comfortable heating area  
Approx. **2.5 times\***  
(Our company comparison)

Air is blown directly downward

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

Increased heat exchange efficiency



Cooling range  
Approx. **1.7 times\***  
(Our company comparison)

Blown out horizontally

\*Compared to our conventional Model ASY13PSCCW


## Specifications

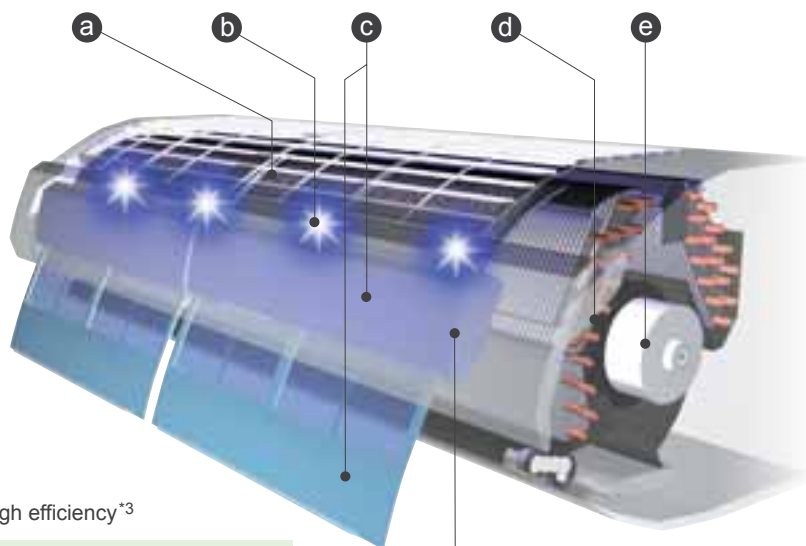
Model No.	Indoor unit		AWYZ14LB	AWYZ18LB	AWYZ24LB
	Outdoor unit		AOYZ14LB	AOYZ18LB	AOYZ24LB
Power Source		V/∅/Hz	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	4.20(0.9~5.3)	5.20(0.9~5.9)	7.10(0.9~8.0)
	Heating		6.00(0.9~9.1)	6.70(0.9~9.7)	8.50(0.9~11.0)
Input Power	Cooling/Heating	kW	1.02/1.35	1.58/1.63	2.21/2.24
EER - Energy Class	Cooling	W/W	4.12-A	3.29-A	3.21-A
COP - Energy Class	Heating		4.44-A	4.11-A	3.62-A
Running Current	Cooling/Heating	A	4.5/5.9	6.9/7.2	9.7/10.3
Moisture Removal		l/h	2.1	2.8	3.0
Noise (Indoor)	Cooling	H/M/L/Q/SQ dB(A)	46/43/35/29/24	46/43/35/29/24	47/43/40/36/32
Noise (Outdoor)					
Airflow Rate (High)	Indoor / Outdoor	m³/h	850/1910	850/1910	880/3600
Net Dimension H x W x D	Indoor	mm	250x899x298	250x899x298	250x899x298
		kg(lbs)	13.5(30)	13.5(30)	14(31)
	Outdoor	mm	578x790x300	578x790x300	830x900x330
		kg(lbs)	39(86)	39(86)	62(137)
Piping Connections (Small / Large)		mm	6.35/12.70	6.35/12.70	6.35/15.88
Drain Pipe Diameter (Inner/Outer)		mm	16/29	16/29	16/29
Max Pipe Length (Chargeless)		m	20(15)	20(15)	30(15)
Max Height Difference			15	15	20
Operation Range	Cooling	°CDB	-10~43	-10~43	-10~43
	Heating		-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

## Automatic filter cleaner **WORLD FIRST**<sup>\*1</sup>

- Entire filter is cleaned automatically in approx. 2 minutes.
- Since the filter is cleaned automatically, energy saving capability is displayed without regard to the load on the air conditioner.
- Energy saving CLASS A cleared with a margin to spare.
- 2 exhaustive bacteria eliminating and deodorizing countermeasures keep the air in the room clean.

### Clean & energy saving technology

- a** Dirt and dust are bacteria-eliminated by photocatalytic filter<sup>\*2</sup>
- b** Drives away bacteria and refreshes the air by UV (ultraviolet rays) illumination
- c** Energy saving by automatic filter cleaning function<sup>\*1</sup>  
This function allows an energy saving of more than 25% a year and maintains a smooth airflow by preventing the filters from being clogged with dust.
- d** Computer-designed fan provides a larger airflow than conventional models  
New air trunk, which provides a smooth airflow, and axial gap fan motor increase the max. airflow by 10% over that of conventional models.  
  
CAE (Computer aided engineering) analysis
- e** Axial gap fan motor enables nonconventional high power and high efficiency<sup>\*3</sup>

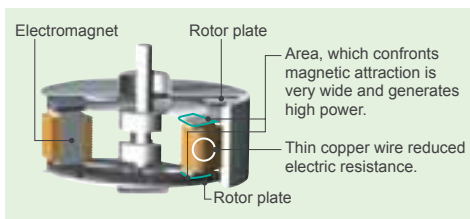


#### Axial gap method

Rotor plates are installed above and below electromagnets.

#### Features (Compared to conventional models)

Compact size with 1.5 more power output  
Self-driven method increases rotating efficiency by 10%. Our electromagnetic field simulation technology enables low vibration and low noise.



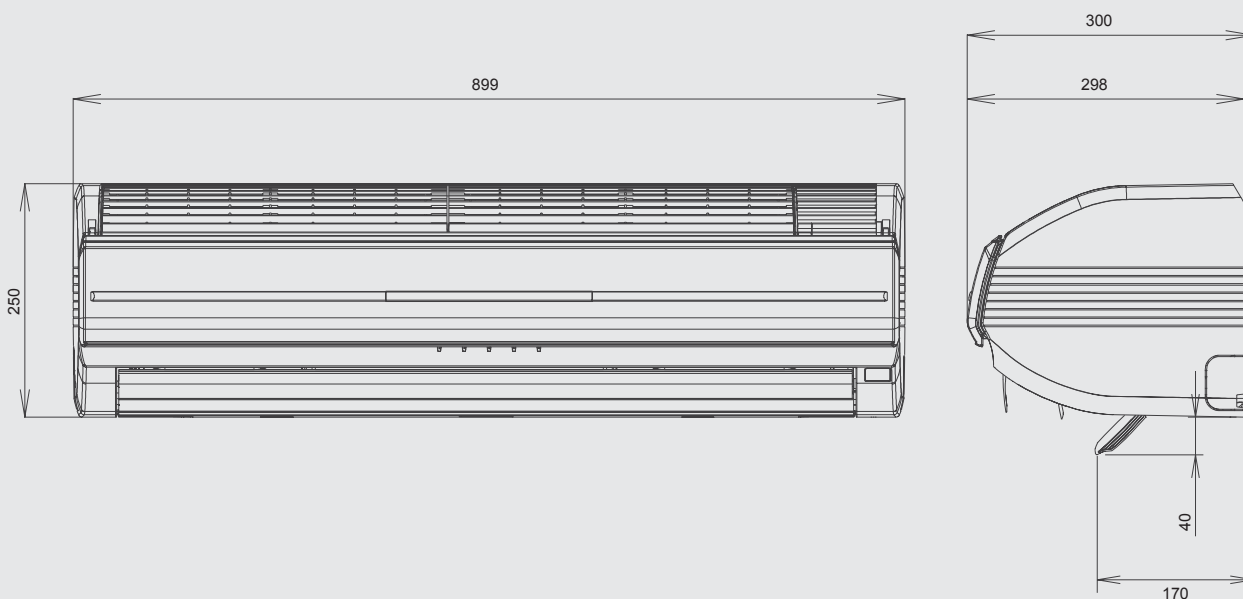
#### Antibacterial dust box

Removes dirt and dust by double brushes. Dust collection is approx. twice that in the past. (our company comparison) Maintenance: Only throwing into a trash bin once every 2 years

\*1: Announced September 9, 2002. In room air conditioner for the home (Our company's investigation) \*2: Displays double the effect of a conventional optical medium and retains its property for a long time to suck in and remove approx. 99.99% of cigarette odors and bacteria, etc. \*3: Announced December 13, 2004. As fan motor for air conditioner (Our company's investigation)

## Dimensions **Models: AWYZ14LB / AWYZ18LB / AWYZ24LB**

(Unit : mm)



# INVERTER Wall Mounted

**PLASMA AIR CONDITIONER**

*i*-PAM (09)    *V*-PAM (12/18/24)(09/12/18)    Up/Down (24)    Double    Adjust    Restart    Auto Changeover    Sleep    Program    W+S    Plasma    Coil Dry    Wash

Wired R.C. (24) Optional

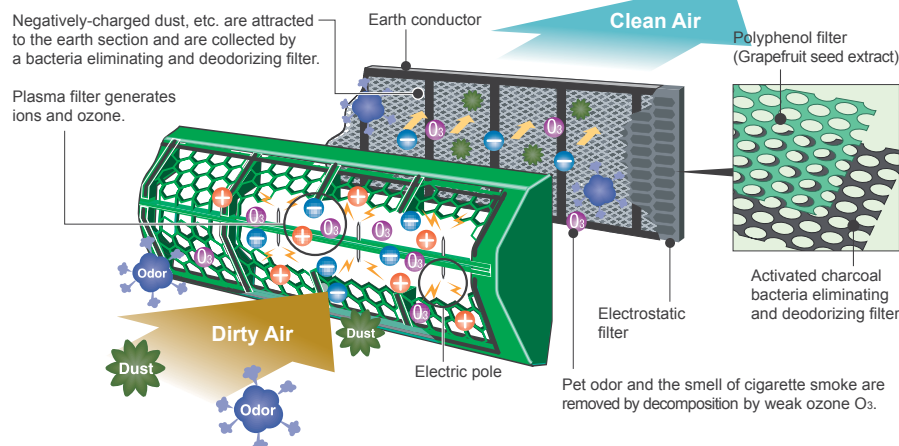
ASYB09LD                      ASYB24LD

CLASS ALL    CLASS ALL    CLASS ALL    CLASS ALL  
**A** → **DC**    **A** → **DC**    **A** → **DC**    **A** → **DC**  
 Heating  
**ASYB09LD**    **ASYB12LD**    **ASYB18LD**    **ASYB24LD**

For ASYB09/12LD    For ASYB18/24LD

## Original plasma air cleaning unit effectively cleans the air in the room

**Plasma unit:** Mounts a plasma air cleaning unit. Minute dust particles are collected by an electrostatic filter and odor is suppressed by decomposition to foul odors by very weak ions. Since a filter with a lower ventilation resistance than in the past is used, high dust collection design simultaneously cleans the air in the room.



## Specifications

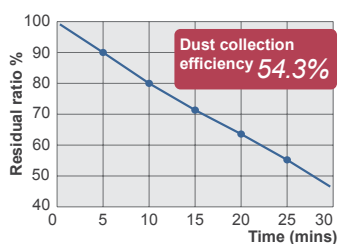
Model No.	Indoor unit		ASYB09LD	ASYB12LD	ASYB18LD	ASYB24LD
	Outdoor unit		AOYS09LD	AOYS12LD	AOYS18LD	AOYS24LD
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.60(0.5~3.7)	3.50(0.9~4.3)	5.20(0.9~5.7)	7.10(0.9~8.0)
	Heating		3.60(0.5~6.1)	4.80(0.9~6.7)	6.25(0.9~9.1)	8.10(0.9~10.6)
Input Power	Cooling/Heating	kW	0.61/0.81	0.91/1.22	1.72/1.73	2.21/2.24
EER - Energy Class	Cooling	W/W	4.26-A	3.85-A	3.02-B	3.21-A
COP - Energy Class	Heating		4.44-A	3.93-A	3.61-A	3.62-A
Running Current	Cooling/Heating	A	2.9/3.9	4.3/5.5	7.6/7.7	9.7/9.8
Moisture Removal		l/h	1.3	1.8	2.8	3.0
Noise (Indoor)	Cooling	H/ML/Q	39/34/29/20	41/35/29/20	45/39/33/26	49/43/38/33
Noise (Outdoor)	Cooling	dB(A)	47	47	50	52
Airflow Rate (High)	Indoor / Outdoor	m³/h	560/1970	595/1830	700/2000	1170/2340
		mm	283x790x230	283x790x230	283x790x230	320x998x228
Net Dimension H x W x D	Indoor	kg(lbs)	9.5(21)	9.5(21)	10(22)	14(31)
		mm	540x790x290	540x790x290	578x790x300	578x790x315
	Outdoor	kg(lbs)	34(75)	36(80)	40(88)	44(97)
		mm	6.35/9.52	6.35/9.52	6.35/12.70	6.35/15.88
Piping Connections (Small / Large)						
Drain Pipe Diameter (Inner/Outer)		mm	16/29	16/29	16/29	16/29
Max Pipe Length (Chargeless)		m	20(15)	20(15)	20(15)	30(15)
Max Height Difference			15	15	15	20
Operation Range	Cooling	°CDB	-10~43	-10~43	-10~43	-10~43
	Heating		-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A

## Plasma air cleaner quickly removes small dust particles & odors

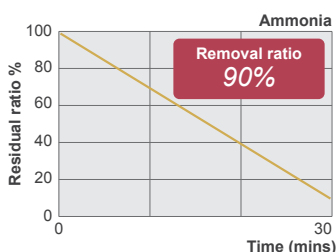
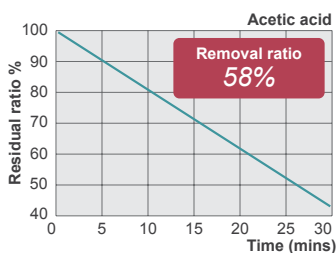
**Collects dirt such as...**House dust / Pet fur and dander / Cigarette smoke / Mite carcass / Mold spore / Pollen

**Absorbs odors such as...**Smell of cigarette smoke / Pet odor / Kitchen garbage smell / Perspiration and body odor

**Dust collection performance\*1**  
(ASYB09/12/18LD)



**Deodorizing performance\*2**  
(ASYB09/12/18LD)



\*1. Test method: JEM 1417

Test room: 30m<sup>3</sup>, sealed room

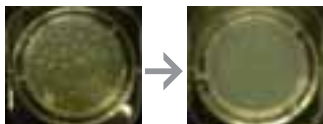
Measurement conditions: Cigarette smoke (5 cigarettes burned simultaneously)

\*2. Test method: JEM1467

Test room: 1m<sup>3</sup>, acrylic sealed box

Measurement method: Cigarette smoke (5 cigarettes burned simultaneously)

### Bacteria elimination effect by Polyphenol ceraglaze



The undiluted solution of the specimen was made the specimen fluid and suspensoid 0.1ml (approx. 107CFU/ml) of the test bacteria was inoculated.

Tested by KITAZATO environment science center

Test NO. :15-0253 Test condition: at 20 degrees C/24 hour action

## Inner drying operation & plasma effect

This model is equipped with an inner drying function. After the power is turned off, the dry operation starts inside the air conditioner. The plasma air cleaning unit eliminates bacteria, deodorizes, and keeps the interior of the air conditioner clean by generating ozone and ions.

## Easy maintenance

**Removable panel**

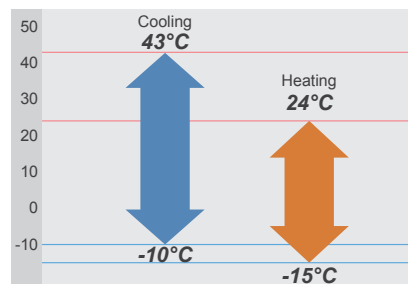
ASYB09/12/18LD



**Washable filter**



## Low ambient operation



## Optional parts

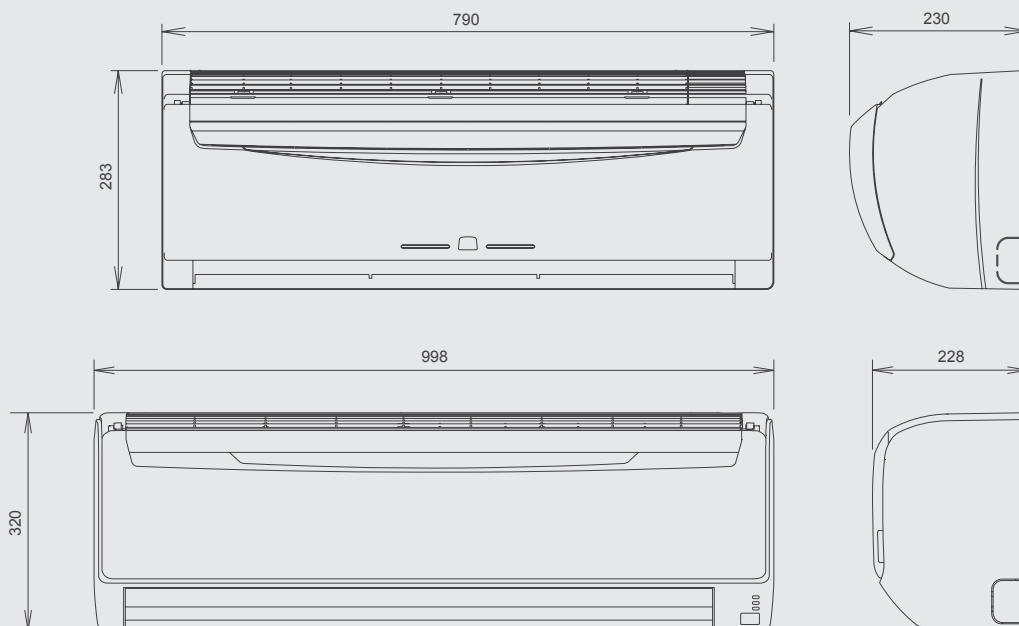
Wired Remote Controller: UTB-YUD (For ASYB24LD)

External Indication Kit: UTY-XWZX (For ASYB24LD)

## Dimensions

Models: ASYB09LD / ASYB12LD / ASYB18LD / ASYB24LD

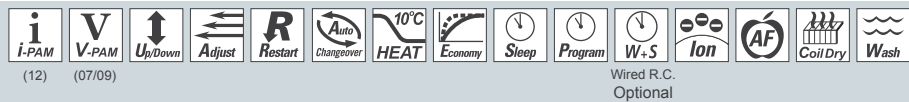
(Unit : mm)





# INVERTER Wall Mounted

Simple design with energy saving.



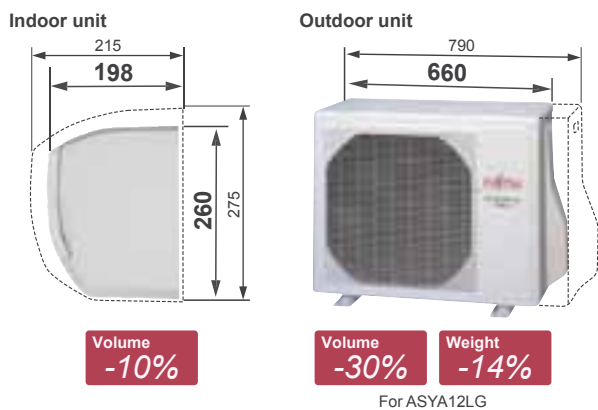
CLASS **A** ALL **DC**  
ASYA07LG

CLASS **A** ALL **DC**  
ASYA09LG

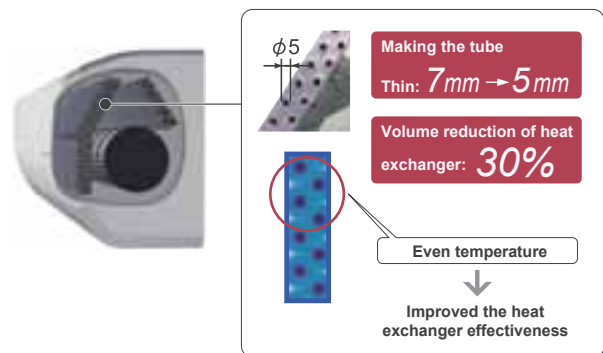
CLASS **A** ALL **DC**  
ASYA12LG

CLASS **A** ALL **DC**  
ASYA14LG

## Compact design



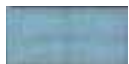
## High density heat transfer tube arrangement



## Specifications

Model No.	Indoor unit		ASYA07LG	ASYA09LG	ASYA12LG	ASYA14LG
	Outdoor unit		AOYR07LG	AOYR09LG	AOYR12LG	AOYR14LG
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.10(0.5~3.0)	2.50(0.5~3.2)	3.40(0.9~3.9)	4.00(0.9~5.0)
	Heating	kW	3.00(0.5~4.5)	3.20(0.5~4.5)	4.00(0.9~5.6)	5.00(0.9~7.0)
Input Power	Cooling/Heating	kW	0.47/0.66	0.63/0.75	0.90/0.97	1.08/1.30
EER - Energy Class	Cooling	W/W	4.47-A	3.97-A	3.80-A	3.70-A
COP - Energy Class	Heating		4.55-A	4.27-A	4.12-A	3.86-A
Running Current	Cooling/Heating	A	2.4/3.2	3.2/3.7	4.3/4.6	4.9/5.7
Moisture Removal	l/h		1.0	1.3	1.8	2.1
Noise (Indoor)	Cooling	H/M/L/Q	43/38/33/21	43/39/33/21	43/39/33/21	44/40/33/25
Noise (Outdoor)	Cooling		45	45	48	48
Airflow Rate (High)	Indoor / Outdoor	m³/h	750 / 1720	750/1720	750/1830	800/2040
Net Dimension H x W x D	Indoor	mm	260x790x198	260x790x198	260x790x198	260x790x198
		kg(lbs)	7.5(17)	7.5(17)	7.5(17)	7.5(17)
	Outdoor	mm	540x660x290	540x660x290	540x660x290	620x790x298
		kg(lbs)	25(55)	25(55)	32(71)	40(88)
Piping Connections (Small / Large)	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70
Drain Pipe Diameter (Inner/Outer)	mm		16/29	16/29	16/29	16/29
Max Pipe Length (Chargeless)	m		20(15)	20(15)	20(15)	20(15)
Max Height Difference	m		15	15	15	15
Operation Range	Cooling	°CDB	-10~43	-10~43	-10~43	-10~43
	Heating	°CDB	-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A

## Air conditioner filter features



**Long-life\*  
Ion Deodorization Filter**

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

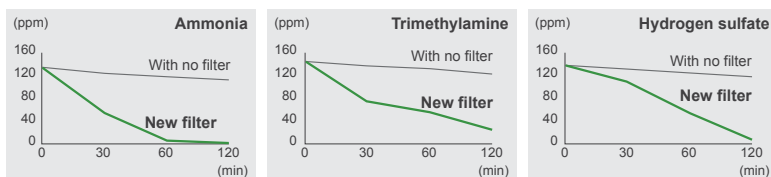
\*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.



**Apple-catechin Filter**

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

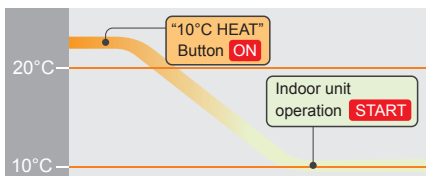
### Deodorizing effect (Odor reduction rate)



Testing organization : Environmental Sanitary Inspection Center Test method : Deodorization Test

## 10°C HEAT Operation \*Only available with Wireless RC.

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied



### Caution

- When the room temperature is higher than 10°C, "10°C HEAT" operation does not start. Operation starts and maintains the room temperature at 10°C for 48 hours when the temperature drops below 10°C.
- When "10°C HEAT" operation stops, the room set temperature quickly returns to the preset temperature.

## Easy maintenance

**Removable & washable panel**



### Dry operation

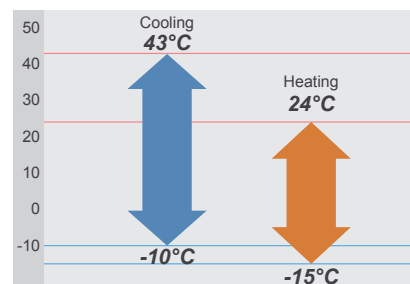
Dry operation removes moisture and keeps the air conditioner clean.

## Quiet operation

Cooling mode (07/09/12TYPE)

<b>Fan speed</b> <i>Quiet</i>	<b>Noise level</b> <i>21dB(A)</i>
----------------------------------	--------------------------------------

## Low ambient operation



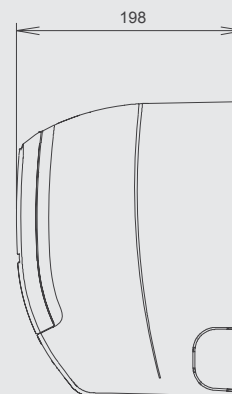
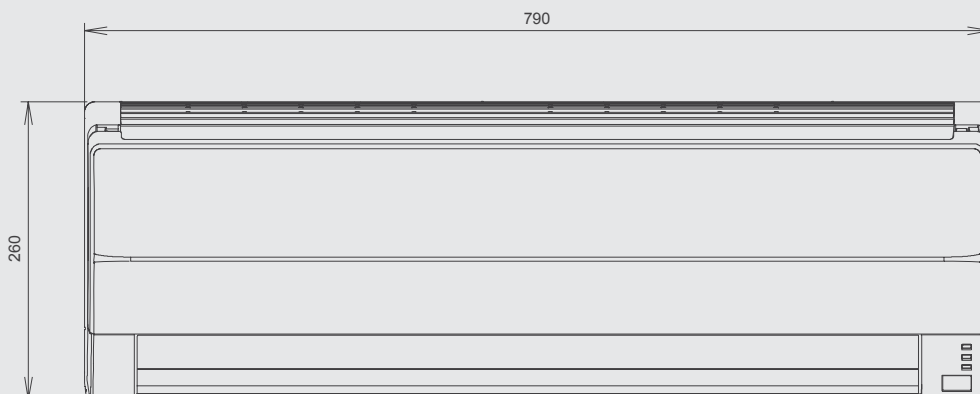
## Optional parts

- Wired Remote Controller: UTB-YUD
- Sub Interface Board: UTY-XCBXE
- External Indication Kit: UTY-XWZX

## Dimensions

Models: ASYA07LG / ASYA09LG / ASYA12LG / ASYA14LG

(Unit : mm)



# INVERTER Wall Mounted

Simple & Elegant Appearance Design



CLASS ALL  
**A DC**

**ASYA18LE**

CLASS ALL  
**A DC**

**ASYA24LC**

CLASS ALL  
**A DC**

**ASYA30LF** NEW

(18) Wireless R.C.

(24/30) Wireless R.C.

Optional

Wired R.C.

For ASYA18LE

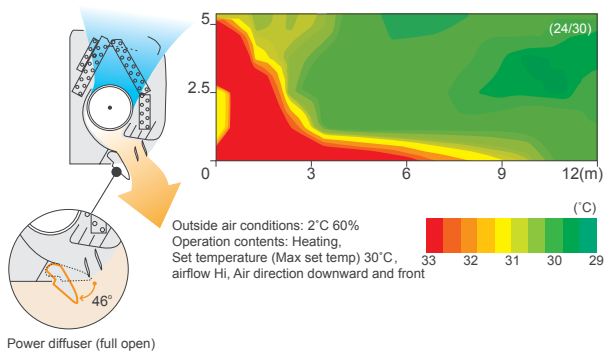
For ASYA24LC

For ASYA30LF

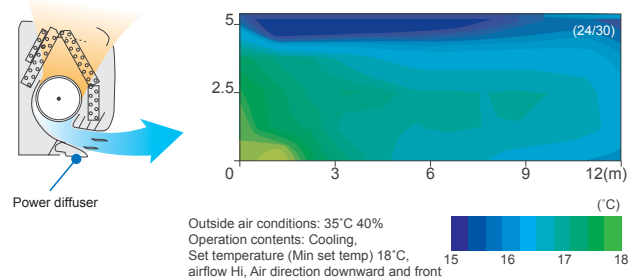
V-PAM Double Adjust Restart Auto Changeover HEAT (18) Sleep Program W+S Ion AF Coil Dry Wash

Wired R.C. Optional

“Vertical airflow” provides powerful floor level heating



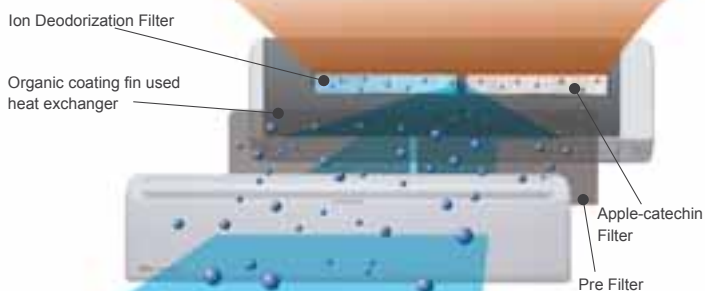
“Horizontal airflow” does not blow cool air directly at the occupants in the room



## Specifications

Model No.	Indoor unit		ASYA18LE	ASYA24LC	ASYA30LF
	Outdoor unit		AOYR18LE	AOYR24LC	AOYR30LF
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	5.20 (0.9~6.0)	7.10(0.9~8.0)	8.00(2.9~9.0)
	Heating	kW	6.30 (0.9~9.1)	8.10(0.9~10.6)	8.80(2.2~11.0)
Input Power	Cooling/Heating	kW	1.52/1.71	2.21/2.24	2.49/2.44
EER - Energy Class	Cooling	W/W	3.42-A	3.21-A	3.21-A
COP - Energy Class	Heating		3.68-A	3.62-A	3.61-A
Running Current	Cooling/Heating	A	6.8/7.6	9.7/9.8	10.9/10.7
Moisture Removal		l/h	2.8	3.0	3.2
Noise (Indoor)	Cooling   H/M/L/Q	dB(A)	43/37/33/26	47/41/36/32	48/42/37/33
Noise (Outdoor)	Cooling				
Airflow Rate (High)	Indoor/Outdoor	m³/h	900/2070	1100/2340	1100/3600
Net Dimension H x W x D	Indoor	mm	320x998x228	320x998x228	320x998x228
		kg(lbs)	14(31)	14(31)	14(31)
	Outdoor	mm	620x790x298	578x790x315	830x900x330
		kg(lbs)	40(88)	44(97)	61(135)
Piping Connections (Small / Large)		mm	6.35/12.70	6.35/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	16/29	16/29	16/29
Max Pipe Length (Chargeless)		m	25(15)	30(15)	50(20)
Height Difference		m	20	20	30
Operation Range	Cooling	°CDB	-10~43	-10~43	-10~46
	Heating		-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

### Air conditioner filter features



Antibacterial deodorizing pre-filter with special ceramic powder

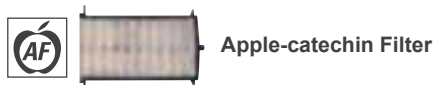


**Long-life\* Ion Deodorization Filter**

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

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

+ Using different filters at both sides



**Apple-catechin Filter**

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

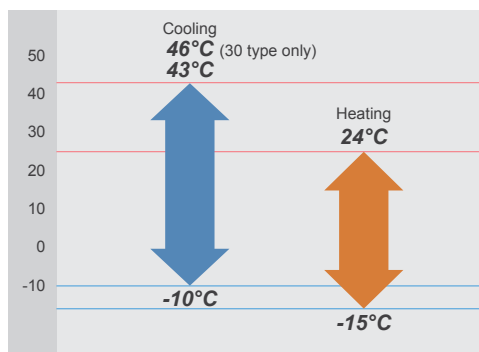
### Flexible Installation

	18 type	24 type	30 type
Max. Piping Length	25m	30m	50m
Max. Height	20m	20m	30m

### Easy maintenance

Simplification of drain pan cleaning improves maintenance-ability.

### Low ambient operation



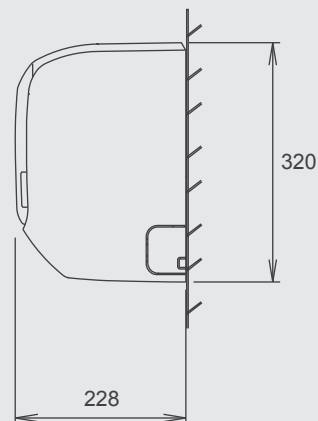
### Optional parts

- Wired Remote Controller: UTB-YUD
- External Indication Kit: UTY-XWZX

### Dimensions

Models: ASYA18LE / ASYA24LC / ASYA30LF

(Unit : mm)



# Wall Mounted













Optional

For ASY7UB/9UC      For ASY12UC

**ASY7UB ASY9UC ASY12UC**













Optional

For ASY14UB

**ASY14UB**

## Specifications

Model No.	Indoor unit		ASY7UB	ASY9UC	ASY12UC	ASY14UB
	Outdoor unit		AOY7UB	AOY9UC	AOY12UC	AOY14UB
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.20	2.60	3.25	4.25
	Heating		2.30	2.95	3.95	4.80
Input Power	Cooling/Heating	kW	0.83/0.75	1.07/0.90	1.35/1.28	1.38/1.27
EER - Energy Class	Cooling	W/W	2.65-D	2.43-E	2.41-E	3.08-B
COP - Energy Class	Heating		3.07-D	3.28-C	3.09-D	3.78-A
Running Current	Cooling/Heating	A	3.9/3.6	4.8/4.1	5.9/5.6	6.1/5.6
Moisture Removal	l/h		1.0	1.3	1.8	2.0
Noise (Indoor)	Cooling	H/M/L/Q	38/35/33/29		40/38/36/33	
Noise (Outdoor)	Cooling		43		48	
Airflow Rate (High)	Indoor / Outdoor	m <sup>3</sup> /h	380/1350	540/1350	540/1700	700/1670
Net Dimension H x W x D	Indoor	mm	257x808x187		257x808x187	
		kg(lbs)	8(18)		8(18)	
	Outdoor	mm	535x650x250		535x695x250	
		kg(lbs)	26(57)		28(62)	
Piping Connections (Small / Large)	mm		6.35/9.52		6.35/9.52	
Drain Pipe Diameter (Inner/Outer)	mm		14/25.5		14/25.5	
Max Pipe Length (Chargeless)	m		10(7.5)		15(7.5)	
Max Height Difference	m		5		8	
Operation Range	Cooling	°C	21~43		21~43	
	Heating		-15~24		-15~24	
Refrigerant			R410A		R410A	



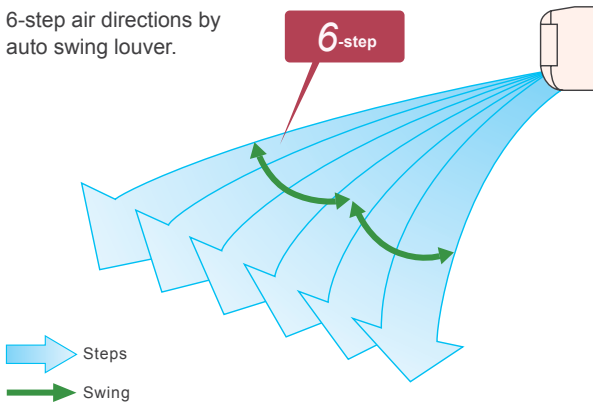
### Powerful output in spite of small size

Though the indoor unit is compact, it features a large, high pressure cross fan (90mm 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.



### Auto swing louver

6-step air directions by auto swing louver.



### Symmetrical design

Symmetrical, clean design that suits all interiors.

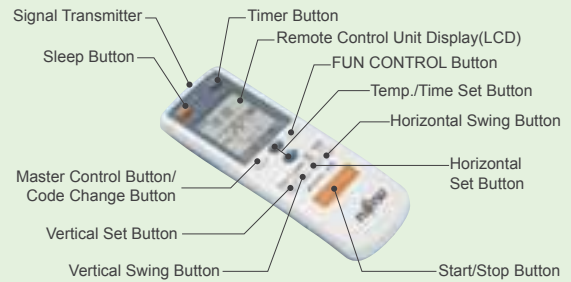
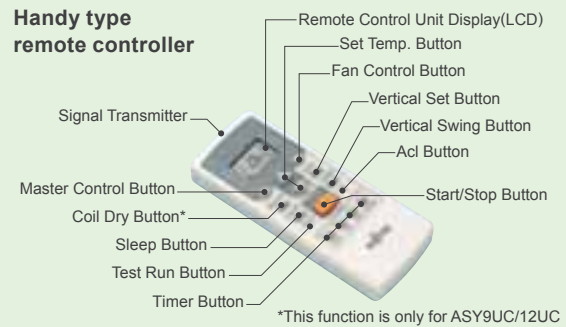


### Easy maintenance

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



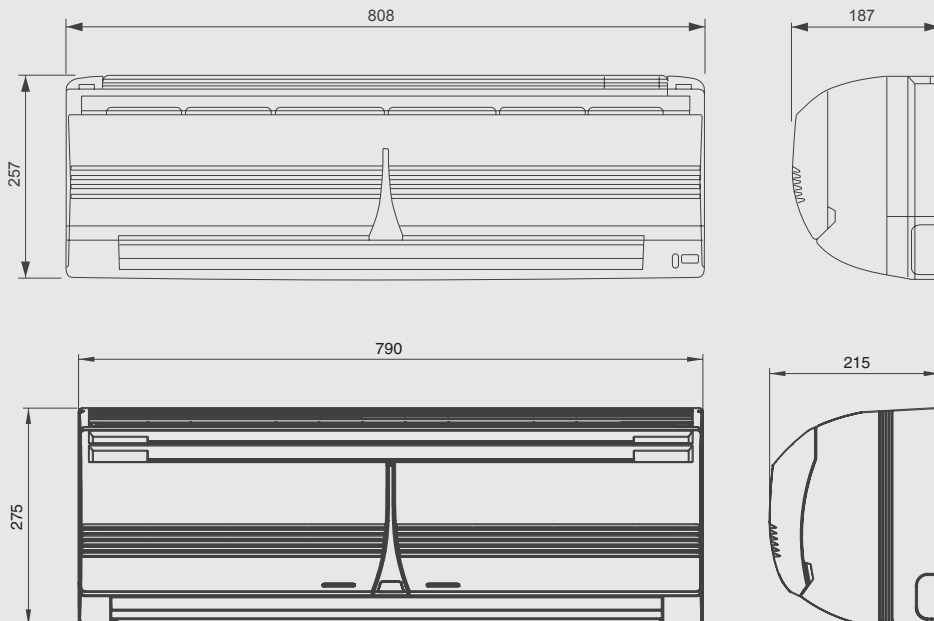
#### Handy type remote controller



### Dimensions

Models: ASY7UB / ASY9UC / ASY12UC / ASY14UB

(Unit : mm)



# Wall Mounted



## 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.

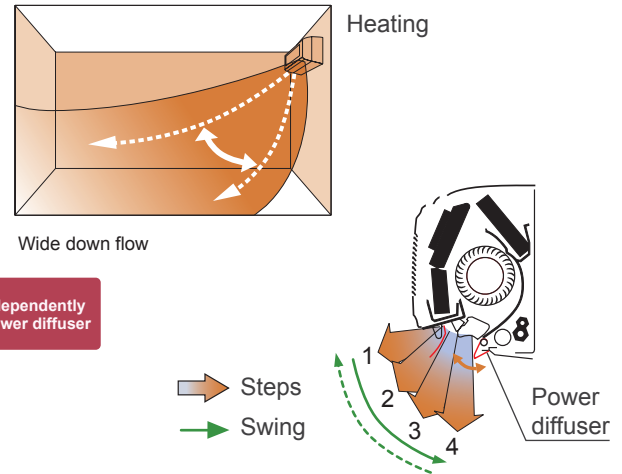
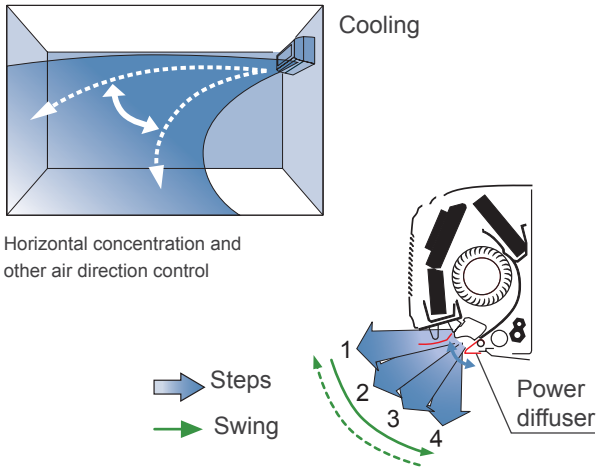


## Specifications

Model No.	Indoor unit		ASY18UB	ASY24UB	ASY30UB
	Outdoor unit		AOY18UB	AOY24UB	AOY30UB
Power Source		V/∅/Hz	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	5.40	6.80	7.90
	Heating		5.70	7.40	8.40
Input Power	Cooling/Heating	kW	1.85/1.85	2.40/2.40	2.75/2.75
EER - Energy Class	Cooling	W/W	2.92-C	2.83-C	2.87-C
COP - Energy Class	Heating		3.08-D	3.08-D	3.05-D
Running Current	Cooling/Heating	A	8.3/8.3	10.6/10.5	13.0/13.0
Moisture Removal		l/h	2.0	2.5	3.0
Noise (Indoor)	Cooling	H/M/L dB(A)	41/37.5/34	45/42/38	47.5/44/40.5
Noise (Outdoor)	Cooling				
Airflow Rate (High)	Indoor/Outdoor	m <sup>3</sup> /h	800/3200	970/3200	1040/3320
Net Dimension H x W x D	Indoor	mm	320x1120x220	320x1120x220	320x1120x220
		kg(lbs)	16(35)	16(35)	16(35)
	Outdoor	mm	650x830x320	650x830x320	900X900X350
		kg(lbs)	52(114)	59(130)	74(163)
Piping Connections (Small / Large)		mm	6.35/15.88	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	16/28	16/28	16/28
Max Pipe Length (Chargeless)		m	20(7.5)	20(7.5)	25(7.5)
Height Difference					
Operation Range	Cooling	°CDB	0~43	0~43	0~43
	Heating		-6~24	-6~24	-6~24
Refrigerant			R410A	R410A	R410A

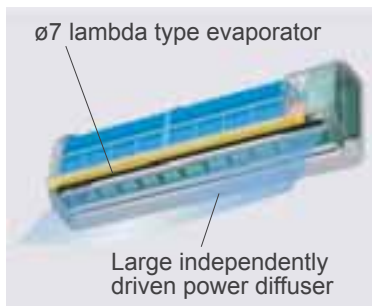
## Multi airflow

Large independently driven power diffuser used



## Low noise

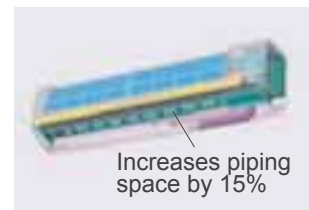
- High efficiency fan construction ⇒ ø7mm Lambda type evaporator improves the airflow path
- Large independently driven power diffuser



Low noise  
**33**<sub>dB</sub>  
(ASY18)

## Easy installation

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



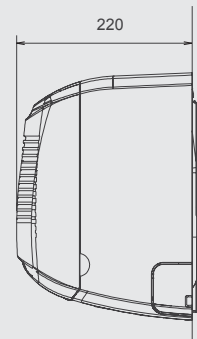
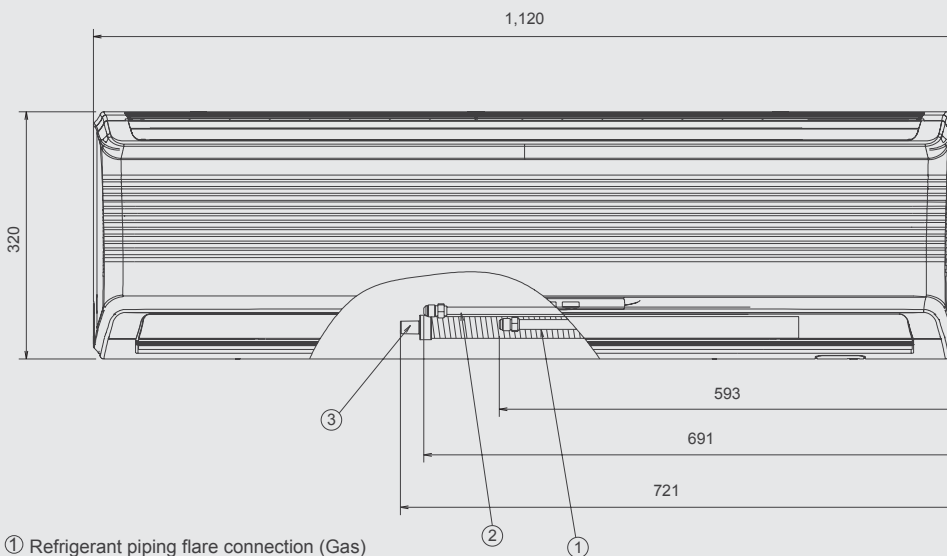
## Others

- Double auto swing
- 2-way draining route

## Dimensions

Models: ASY18UB / ASY24UB / ASY30UB

(Unit : mm)



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

# INVERTER Floor

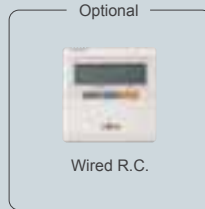
Simple & Thin design  
harmonizes with the interior



Wired R.C.  
Optional



Wireless R.C.



Wired R.C.



For AGYF09/12LA



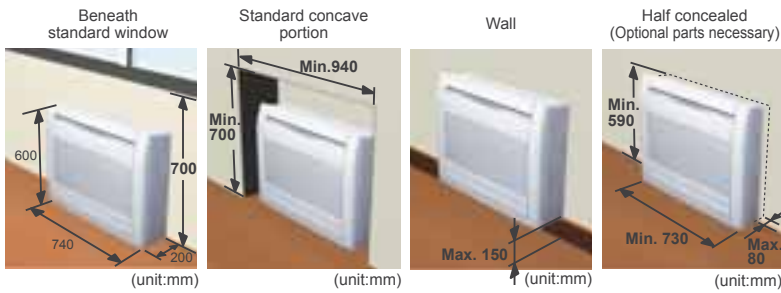
For AGYF14LA

CLASS ALL  
A DC  
AGYF09LA

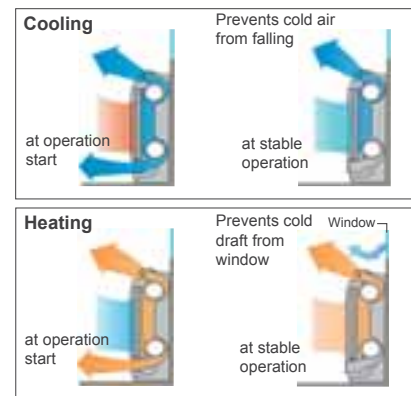
CLASS ALL  
A DC  
AGYF12LA

CLASS ALL  
A DC  
AGYF14LA

## Flexible & easy installation



## 2-Fan & Wide airflow



## Specifications

Model No.	Indoor unit		AGYF09LA	AGYF12LA	AGYF14LA
	Outdoor unit		AOYV09LA	AOYV12LA	AOYV14LA
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.60(0.9~3.5)	3.50(0.9~4.0)	4.20(0.9~5.0)
	Heating	kW	3.50(0.9~5.5)	4.50(0.9~6.6)	5.20(0.9~8.0)
Input Power	Cooling/Heating	kW	0.53/0.79	0.94/1.19	1.14/1.44
EER - Energy Class	Cooling	W/W	4.91-A	3.72-A	3.68-A
COP - Energy Class	Heating		4.43-A	3.78-A	3.61-A
Running Current	Cooling/Heating	A	2.6/3.8	4.4/5.5	5.2/6.4
Moisture Removal		l/h	1.3	1.8	2.1
Noise (Indoor)	Cooling   H/M/L/Q	dB(A)	40/35/29/22	40/35/29/22	44/38/31/22
Noise (Outdoor)	Cooling		47	48	50
Airflow Rate (High)	Indoor/Outdoor	m³/h	570/1680	570/1680	650/1910
Net Dimension H x W x D	Indoor	mm	600x740x200	600x740x200	600x740x200
		kg(lbs)	14(31)	14(31)	14(31)
	Outdoor	mm	540x790x290	540x790x290	578x790x300
		kg(lbs)	36(79)	36(79)	40(88)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/9.52	6.35/12.7
Drain Pipe Diameter (Inner/Outer)		mm	16/29	16/29	16/29
Max Pipe Length (Chargeless)		m	20(15)	20(15)	20(15)
Height Difference			15	15	15
Operation Range	Cooling	°CDB	-10~43	-10~43	-10~43
	Heating		-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

## Filter features



### Long-life\* Ion Deodorization Filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.  
 (\*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.)

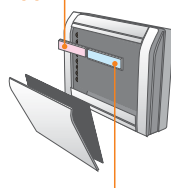
✚ Using different filters at both sides



### Apple-catechin Filter

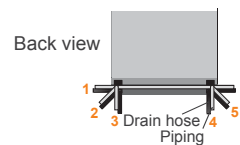
Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

### Apple-catechin Filter

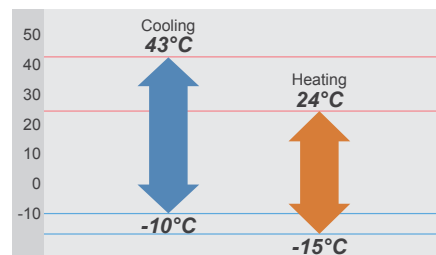


### Ion Deodorization Filter

## Flexible piping connection 6 direction of drain & piping



## Low ambient operation

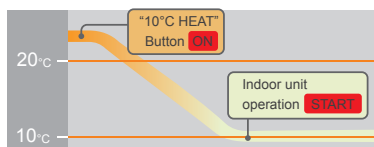


## 10°C HEAT Operation

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied

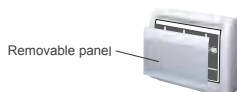
### Caution

- When the room temperature is higher than 10°C, "10°C HEAT" operation does not start. Operation starts and maintains the room temperature at 10°C for 48 hours when the temperature drops below 10°C.
- When "10°C HEAT" operation stops, the room set temperature quickly returns to the preset temperature.



## Easy maintenance

Washable panel removable



## Quiet operation

Industry leading noise levels

Fan speed	Low level
<b>Quiet</b>	<b>22<sub>dB(A)</sub></b>

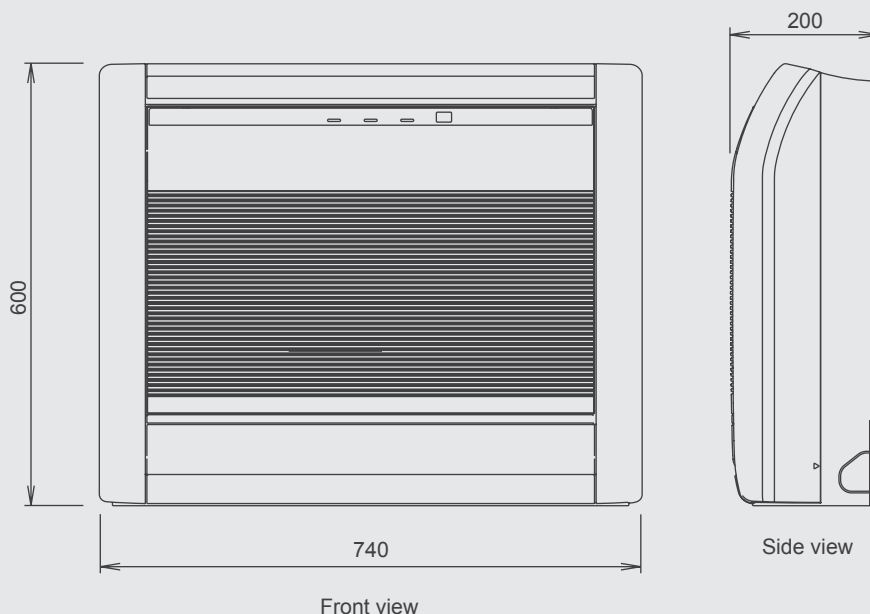
## Optional parts

- Wired Remote Controller: UTB-YUD
- Half Concealed Kit: UTR-STA
- External Indication Kit: UTY-XWZX

## Dimensions

Models: AGYF09LA / AGYF12LA / AGYF14LA

(Unit : mm)





# Compact Cassette

Powerful wide air flow & Quiet operation

Optional: Fresh, Economy, Sleep, Program, W+S, Filter, Max. 3 (18/24)

Wired R.C. Optional

Wireless R.C.

Optional: Wired R.C.

Compact Outdoor Unit

Grille is an option

CLASS **A** ALL **DC** AUYF12LA

CLASS **A** ALL **DC** AUYF14LA

CLASS **A** ALL **DC** AUYF18LB

CLASS **A** ALL **DC** AUYF24LB

## 2-stage turbo fan

High efficiency design by 2 stage structure

**Wind velocity**

Fast  
Slow

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

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

Heat exchange efficiency: **20%UP**

## Quiet quality

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

Designed by CFD-analysis (fluid) simulations

**Laminar wing**  
Airflow runs through smoothly along the laminar wing  
No airflow separation  
**Quiet**

Adoption of laminar wing

Spin direction ← Airflow direction →

## Specifications

Model No.	Indoor unit		AUYF12LA	AUYF14LA	AUYF18LB	AUYF24LB
	Outdoor unit		AOYA12LA	AOYA14LA	AOYA18LA	AOYA24LA
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	3.50	4.30	5.20	7.10
	Heating		4.10	5.00	6.00	8.00
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66	2.21/2.21
EER - Energy Class	Cooling	W/W	3.33-A	3.21-A	3.21-A	3.21-A
COP - Energy Class	Heating		3.69-A	3.71-A	3.61-A	3.61-A
Running Current	Cooling/Heating	A	4.6/4.9	5.8/5.9	7.1/7.3	9.7/9.7
Moisture Removal		l/h	1.2	1.5	2.2	2.7
Noise (Indoor)	Cooling   H/M/L/Q	dB(A)	37/34/30/27	38/34/30/27	38/34/30/26	49/44/36/30
Noise (Outdoor)	Cooling		47	49	50	52
Airflow Rate (High)	Indoor/Outdoor	m <sup>3</sup> /h	600/1780	680/1910	680/2000	930/2470
Net Dimension H x W x D	Indoor / Grille	mm	245×570×570/ 50×700×700	245×570×570/ 50×700×700	245×570×570/ 50×700×700	245×570×570/ 50×700×700
		kg(lbs)	15(33)/2.6(6)	15(33)/2.6(6)	15(33)/2.6(6)	17(37)/2.6(6)
	Outdoor	mm	578×790×300	578×790×300	578×790×300	578×790×315
		kg(lbs)	40(88)	40(88)	40(88)	44(97)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88
Drain Pipe Diameter (Inner/Outer)		mm	19.4/25.4	19.4/25.4	19.4/25.4	19.4/25.4
Max Pipe Length (Chargeless)		m	25	25	25	30
Height Difference			15	15	15	20
Operation Range	Cooling	°CDB	-10~46	-10~46	-10~46	-10~46
	Heating		-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A
Grille			UTG-UFYB-W	UTG-UFYB-W	UTG-UFYB-W	UTG-UFYB-W

## 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    B : 2-stage turbo fan  
C : Bell-mouth    D : Panel



### 2 Long life filter

: standard equipment

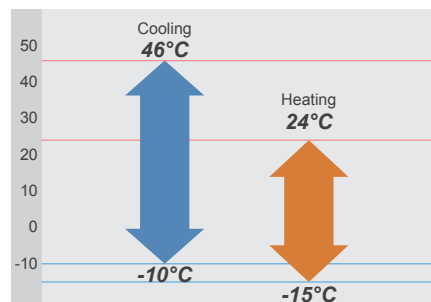
### 3 Adaptation of transparent drainage parts

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

## High lift drain pump

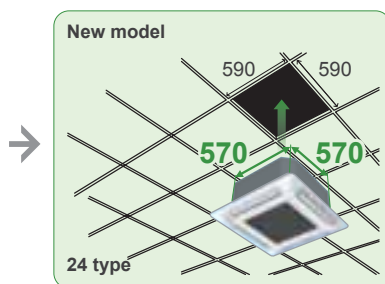
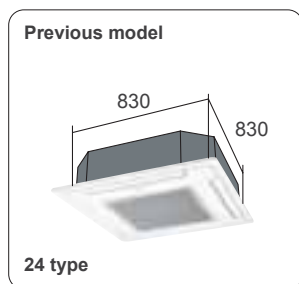


## Low ambient operation



## Compact design

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



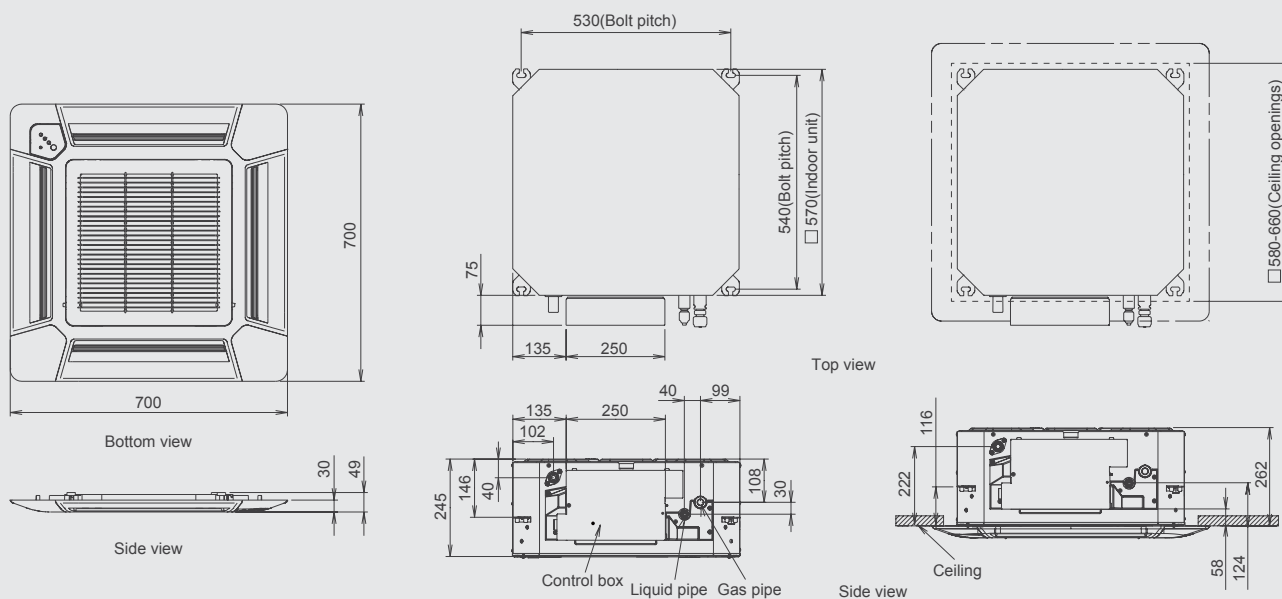
## Optional parts

Air Outlet Shutter Plate:	UTR-YDZB
Wired Remote Controller:	UTB-YUD
Insulation Kit For High Humidity:	UTZ-KXGC
External Indication Kit:	UTY-XWZX
External Control Set:	UTD-ECS5A
Fresh Air Intake Kit:	UTY-VXAA

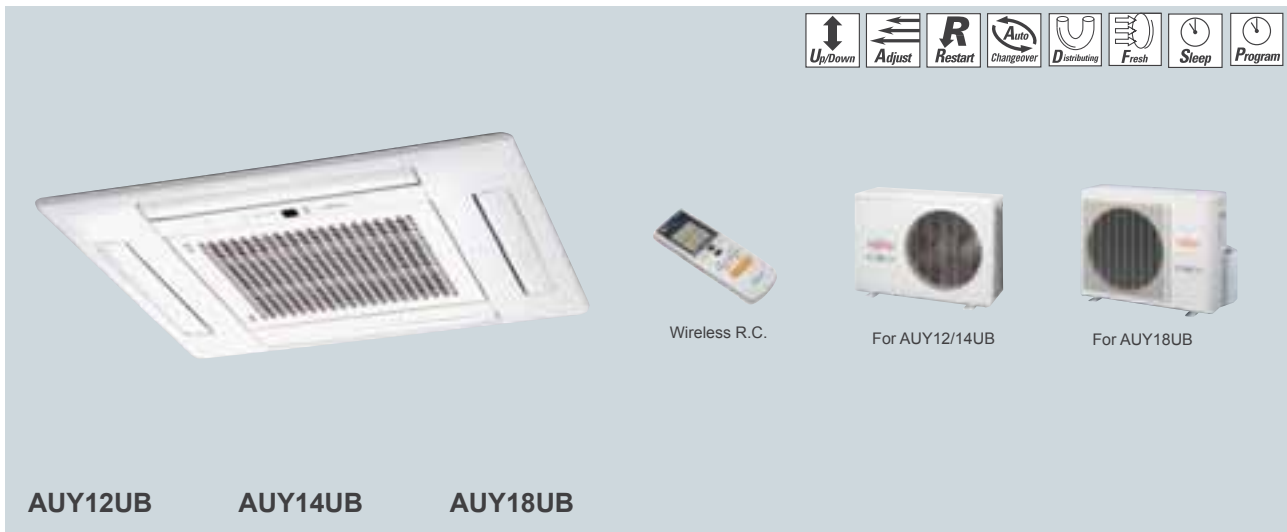
## Dimensions

Models: AUYP12LA / AUYP14LA / AUYP18LB / AUYP24LB

(Unit : mm)



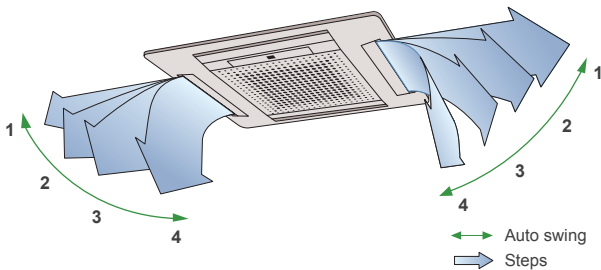
# Compact Cassette



## Comfortable air flow

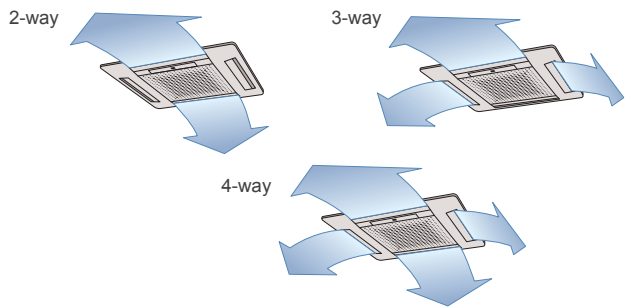
### 4 step swing

Auto air flow direction and auto swing



### 2-4 way air flow system

Select 2-way, 3-way or 4-way air flow to suit your needs.

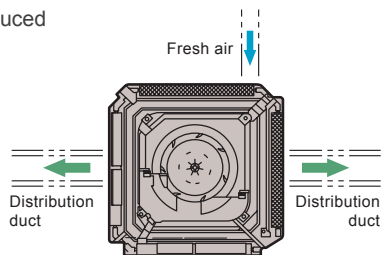


## Specifications

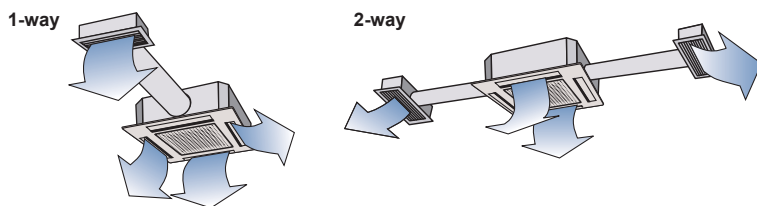
Model No.	Indoor unit		AU-Y12UB	AU-Y14UB	AU-Y18UB
	Outdoor unit		AO-Y12UB	AO-Y14UB	AO-Y18UB
Power Source	V/Ø/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	3.55	3.95	4.85
	Heating		4.00	4.60	5.40
Input Power	Cooling/Heating	kW	1.24/1.21	1.40/1.42	1.85/2.00
EER - Energy Class	Cooling	W/W	2.86-C	2.82-C	2.62-D
COP - Energy Class	Heating		3.31-C	3.24-C	2.70-E
Running Current	Cooling/Heating	A	5.5/5.4	6.3/6.3	8.2/9.2
Moisture Removal		l/h	1.3	1.5	2.1
Noise (Indoor)	Cooling   H/M/L	dB(A)	42/39/36	42/39/36	44/41/37
Noise (Outdoor)	Cooling		49	49	52
Airflow Rate (High)	Indoor/Outdoor	m³/h	550/1600	550/1600	620/3200
Net Dimension H x W x D	Indoor / Grille	mm	235x580x580	235x580x580	235x580x580
		kg(lbs)	18(40)	18(40)	18(40)
	Outdoor	mm	530x750x250	530x750x250	650x830x320
		kg(lbs)	34(75)	35(77)	52(115)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/12.70	6.35/12.70
Max Pipe Length (Chargeless)		m	20	20	20
Height Difference			8	8	8
Operation Range	Cooling	°CDB	0~43	0~43	0~43
	Heating		-7~24	-7~24	-7~24
Refrigerant			R410A	R410A	R410A
Grille			UTG-UDYD-W	UTG-UDYD-W	UTG-UDYD-W

### Duct connection hole opening

Fresh air can be introduced through this opening

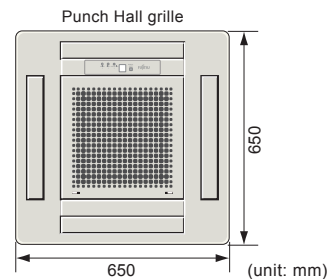


Conditioned air can be distributed by means of a distribution duct

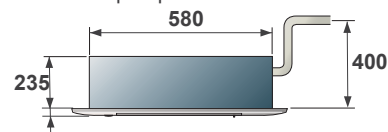


### Compact size

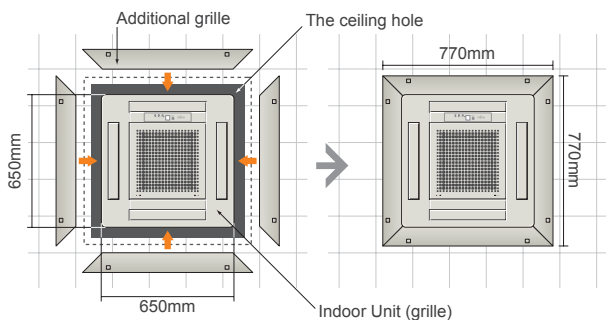
Compact grille fits European ceiling panel (650 x 650 mm)



Condensate pump lift to 400mm



### Additional grille (optional parts)

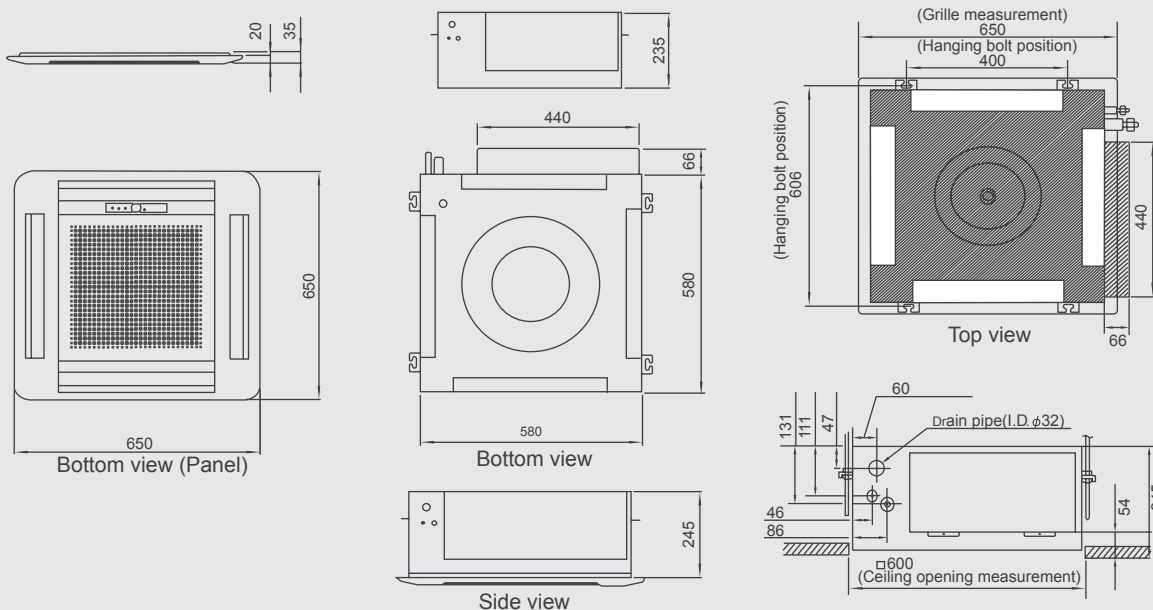


### Optional parts

Additional Grille: UTG-AGDA-W

### Dimensions Models: AUY12UB / AUY14UB / AUY18UB

(Unit : mm)



# INVERTER Cassette

Powerful wide air flow & Quiet operation

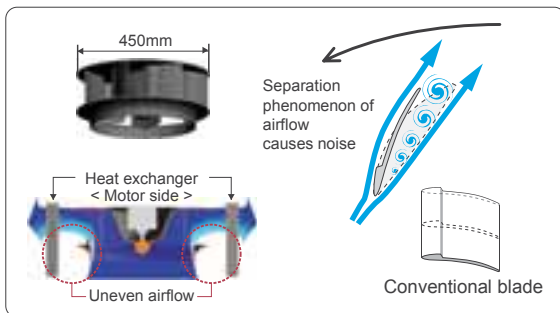
Grille is an option

Optional  
Wired R.C.  
IR Receiver Kit  
For AUYA30/36LB  
For AUYA45LC (For single phase)  
For AUYA36/45/54LC (For 3 phase)

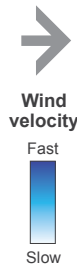
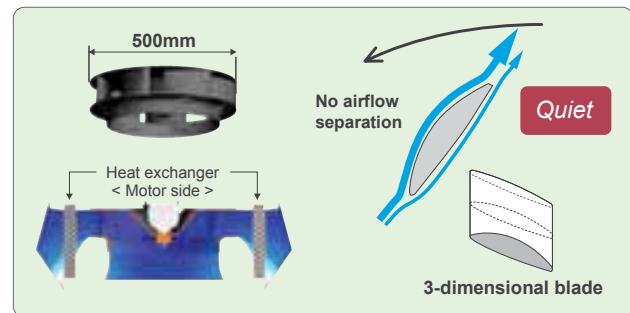
CLASS <b>A</b> ALL <b>DC</b> <b>AUYA30LB</b>	CLASS <b>A</b> ALL <b>DC</b> <b>AUYA36LB</b> <b>AUYA36LC</b>	CLASS <b>A</b> ALL <b>DC</b> <b>AUYA45LC</b>	CLASS <b>A</b> ALL <b>DC</b> <b>AUYA54LC</b>
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## High efficiency turbo fan with 3-dimensional blade

**Previous turbo fan:** Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



**New turbo fan:** High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



← Spin direction → Airflow direction → Turbulent flow noise

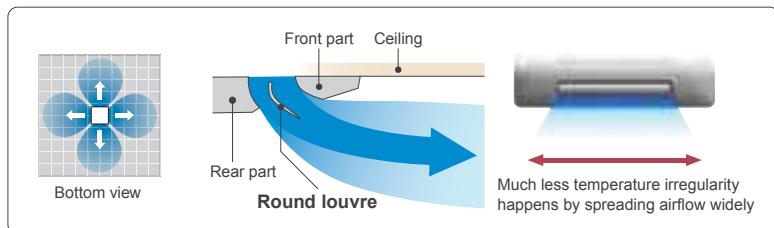
## Specifications

Model No.	Indoor unit		AUYA30LB	AUYA36LB	AUYA36LC	AUYA45LC	AUYA45LC	AUYA54LC
	Outdoor unit		AOYA30LF	AOYA36LF	AOYD36LA	AOYA45LB	AOYD45LA	AOYD54LA
Power Source	V/∅/Hz		230/1/50	230/1/50	400/3/50	230/1/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.50	10.00	10.00	12.50	12.50	14.00
	Heating	kW	10.00	11.20	11.20	14.00	14.00	16.00
Input Power	Cooling/Heating	kW	2.65/2.77	3.12/3.02	2.44/2.56	3.89/3.77	3.54/3.58	4.36/4.43
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A	4.10-A	3.21-A	3.53-A	3.21-A
COP - Energy Class	Heating	W/W	3.61-A	3.71-A	4.38-A	3.71-A	3.91-A	3.61-A
Running Current	Cooling/Heating	A	11.6/12.2	13.7/13.3	3.7/3.9	17.0/16.5	5.3/5.3	6.5/6.6
Moisture Removal		l/h	2.5	3.5	3.0	5.0	4.5	5.0
Noise (Indoor)	Cooling H/M/L/Q	dB(A)	40/38/36/32		44/39/36/33	46/42/40/36		47/43/41/37
Noise (Outdoor)	Cooling		53	54	51	55	54	55
Airflow Rate (High)	Indoor / Outdoor	m³/h	1600/3600	1800/3800	1800/6200	1900/6600	1900/6900	2000/6900
Net Dimension H x W x D	Indoor / Grille	mm	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840/ 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950
		kg(lbs)	26(57)/5.5(12)	26(57)/5.5(12)	27(60)/5.5(12)	27(60)/5.5(12)	27(60)/5.5(12)	27(60)/5.5(12)
	Outdoor	mm	830x900x330	830x900x330	1290x900x330	1290x900x330	1290x900x330	1290x900x330
		kg(lbs)	61(135)	61(135)	107(236)	98(216)	107(236)	107(236)
Piping Connections (Small / Large)		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0
Max Pipe Length (Chargeless)		m	50	50	75	50	75	75
Height Difference			30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15~46	-15~46	-15~46	-15~46	-15~46	-15~46
	Heating		-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A
Grille			UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W

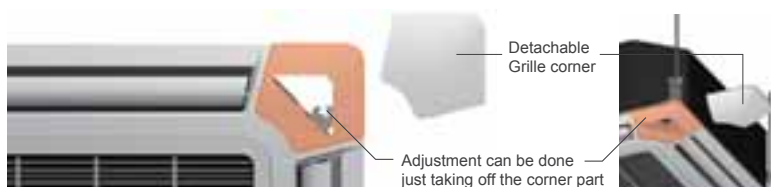


### Improvement of the airflow distribution

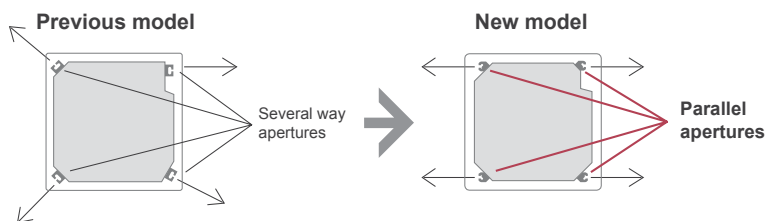
**New louvre:** The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.



### Adjustment of hanger position is possible after installation



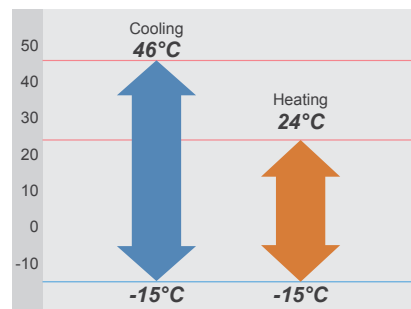
### One way aperture installation



### High lift drain pump



### Low ambient operation



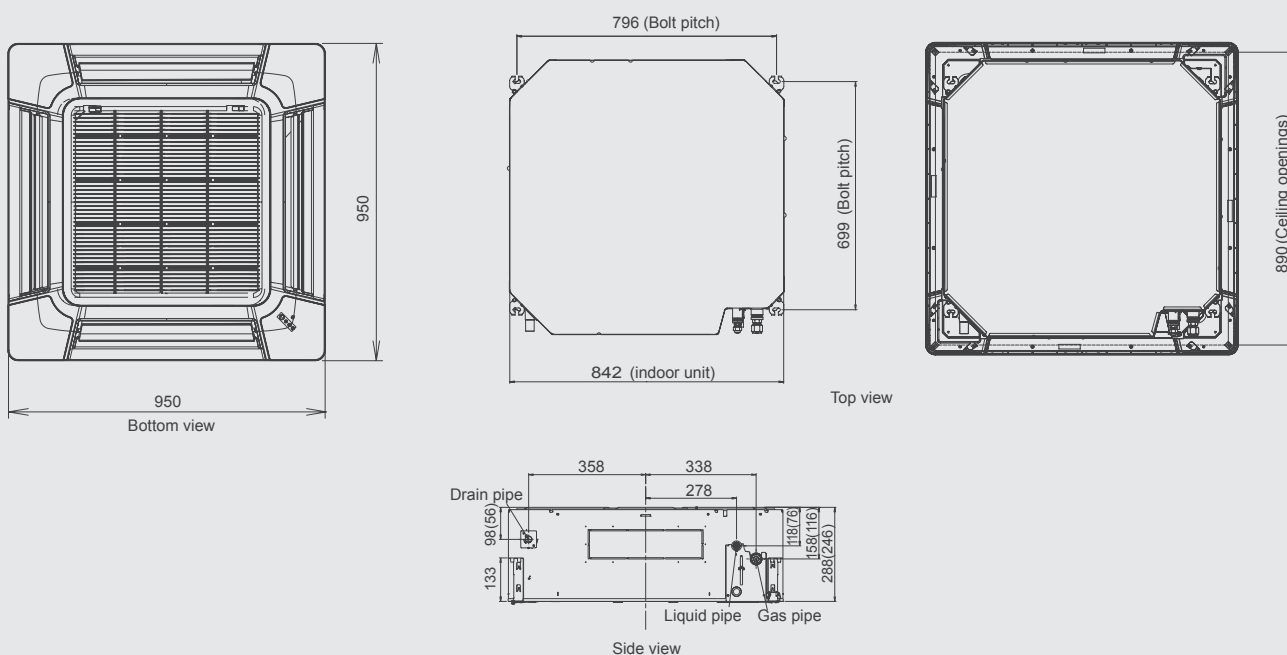
### Optional parts

IR Receiver Kit:	UTY-LRHYA1
Wide Panel:	UTG-AGYA-W
Panel Spacer:	UTG-BGYA-W
Air Outlet Shutter Plate:	UTR-YDZC
Insulation Kit For High Humidity:	UTZ-KXGA
External Indication Kit:	UTY-XWZX
	UTY-XWZXZ2
External Control Set:	UTD-ECS5A
Fresh Air Intake Kit:	UTY-VXGA

### Dimensions

Models: AUYA30LB / AUYA36LB / AUYA36LC / AUYA45LC / AUYA54LC

(Unit : mm)



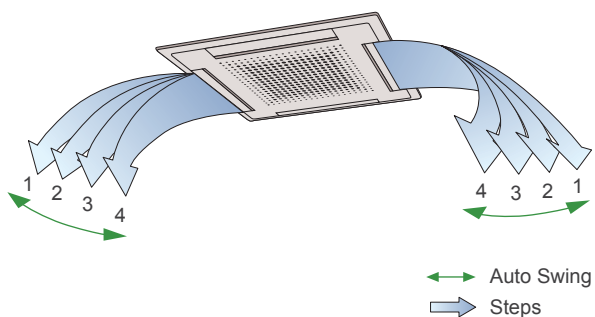
# INVERTER Cassette



## Comfortable airflow

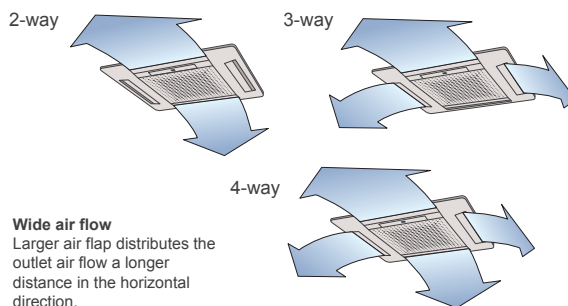
### 4 step swing

Auto air flow direction and auto swing



### 2-4 way air flow system

Select 2-way, 3-way or 4-way air flow to suit your needs.

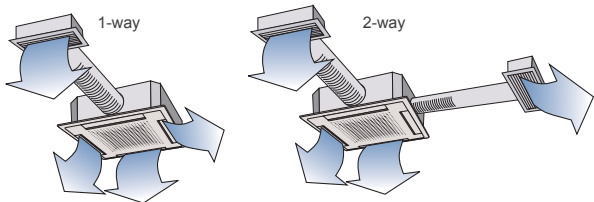


## Specifications

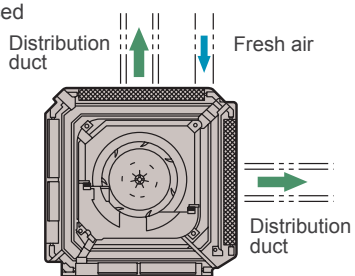
Model No.	Indoor unit		AUYA45LA	AUYS4LU
	Outdoor unit		AOYA45LA	AOYS4LU
Power Source	V/Ø/Hz		230/1/50	230/1/50
Capacity	Cooling	kW	12.50	13.30
	Heating		14.00	16.00
Input Power	Cooling/Heating	kW	3.89/3.77	5.45/4.95
EER - Energy Class	Cooling	W/W	3.21-A	2.44
COP - Energy Class	Heating		3.71-A	3.23
Running Current	Cooling/Heating	A	17.0/16.5	23.8/21.6
Moisture Removal		l/h	4.5	5.5
Noise (Indoor)	Cooling   H/M/L/Q	dB(A)	52/47/42/39	50/48/45/-
Noise (Outdoor)	Cooling		55	54
Airflow Rate (High)	Indoor/Outdoor	m <sup>3</sup> /h	1750/6600	1700/6600
Net Dimension H x W x D	Indoor	mm	296x830x830	296x830x830
		kg(lbs)	32(70)/7(16)	33(72)/7(16)
	Outdoor	mm	1290x900x330	1290x900x330
		kg(lbs)	98(216)	105(231)
Piping Connections (Small / Large)		mm	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	32.0/37.0	32.0/37.0
Max Pipe Length (Chargeless)		m	50	70
			30	30
Operation Range	Cooling	°CDB	-15~46	-15~43
	Heating		-15~24	-15~24
Refrigerant			R410A	R410A

## Duct connection hole opening

Conditioned air can be distributed by means of a distribution duct



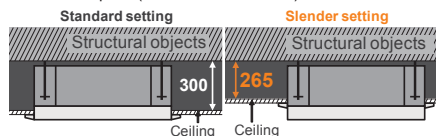
Fresh air can be introduced through this opening



## Flexible installation

Installation is done by "Standard setting" with more than 300mm of space. "Slender setting" lets it suitable for minimum 265mm installation space.

Installation Space (Built-in measurement)



## Easy installation (For 45LA)

Main work settings can be done easily from the remote controller at installation

### Main work settings

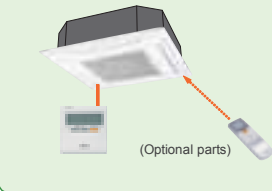
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

### Conventional type

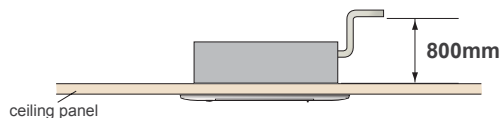
Setting by DIP switch inside control box



### Setting by wireless or wired remote controller



## Condensate pump lift to 800mm



## Optional parts

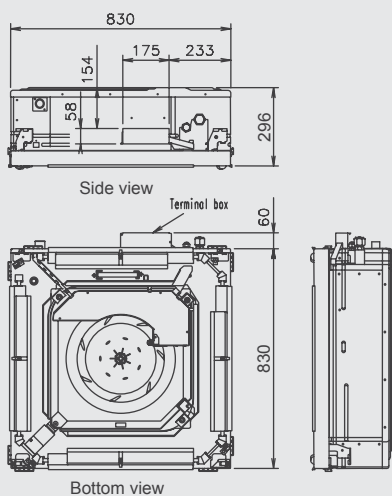
Wireless Remote Controller: UTB-YNA (for 45LA)

Additional Grille: UTG-AGEA-W

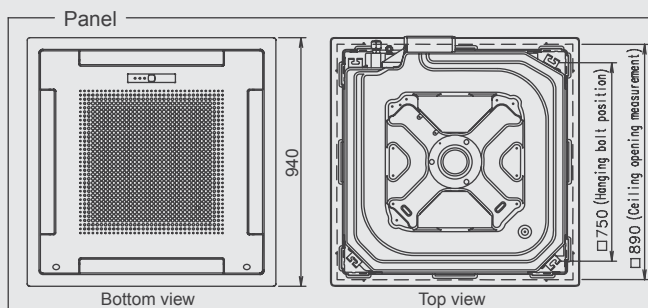
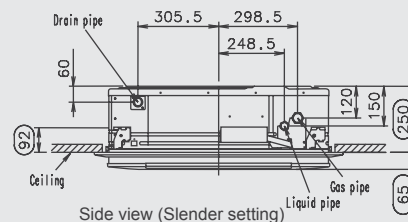
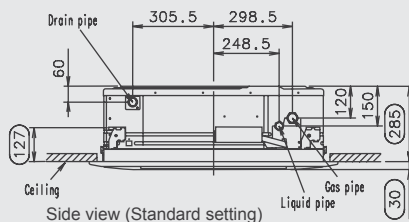
## Dimensions

Models: AUYA45LA / AUYS45LU

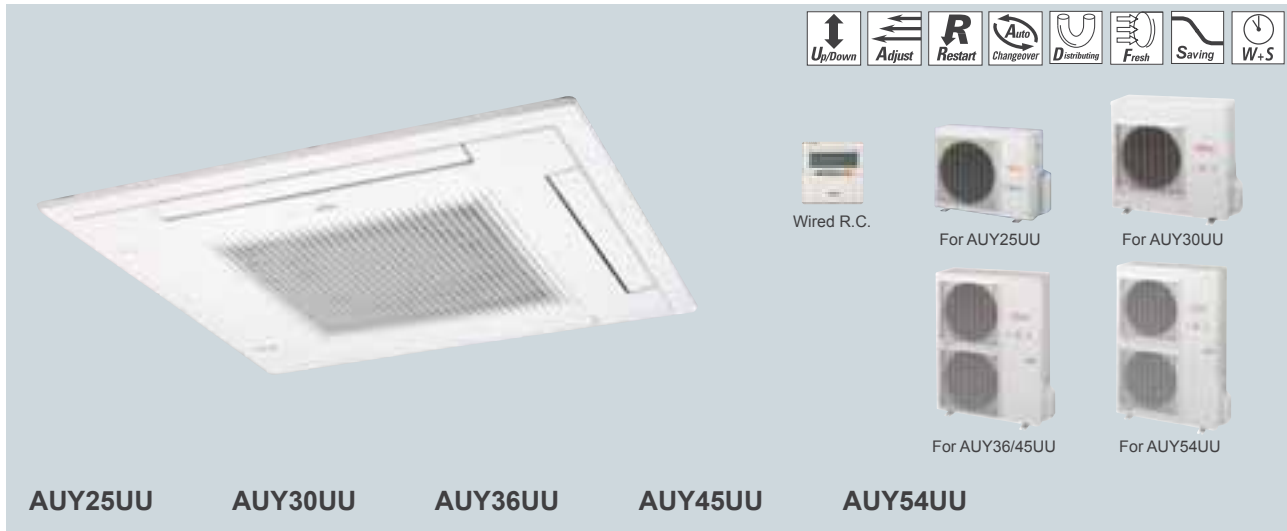
(Unit : mm)



### Selection of setting



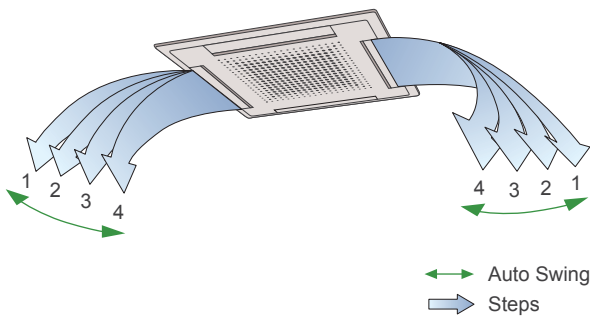
# Cassette



## Comfortable airflow

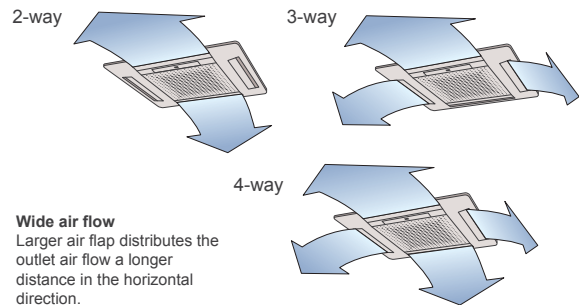
### 4 step swing

Auto air flow direction and auto swing



### 2-4 way air flow system

Select 2-way, 3-way or 4-way air flow to suit your needs.



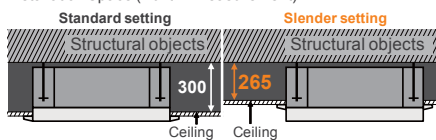
## Specifications

Model No.	Indoor unit		AUY25UU	AUY30UU	AUY36UU	AUY45UU	AUY54UU
	Outdoor unit		AOY25UU	AOY30UU	AOY36UU	AOY45UU	AOY54UU
Power Source	V/Ø/Hz		230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
Capacity	Cooling	kW	7.00	8.40	10.50	12.70	14.50
	Heating		7.80	9.50	11.80	14.30	16.50
Input Power	Cooling/Heating	kW	2.65/2.35	2.95/2.78	3.48/3.65	4.38/4.39	5.16/5.30
EER - Energy Class	Cooling	W/W	2.64-D	2.85-C	3.02-B	2.90	2.81
COP - Energy Class	Heating		3.32-C	3.42-B	3.23-C	3.26	3.11
Running Current	Cooling/Heating	A	11.8/10.5	13.6/13.1	5.9/6.2	7.7/7.7	9.5/9.5
Moisture Removal	l/h		2.5	3.0	4.0	5.0	6.0
Noise (Indoor)	Cooling	H/M/L dB(A)	44/42/39	46/44/39	48/44/41	49/47/43	52/48/45
Noise (Outdoor)	Cooling		53	53	54	54	54
Airflow Rate (High)	Indoor/Outdoor	m³/h	1100/3200	1250/3300	1500/6100	1550/6100	1700/6300
Net Dimension H x W x D	Indoor	mm	246x830x830	246x830x830	296x830x830	296x830x830	296x830x830
		kg(lbs)	34(75)	34(75)	37(82)	40(88)	40(88)
	Outdoor	mm	650x830x320	830x900x330	1165x900x330	1165x900x330	1290x900x330
		kg(lbs)	59(130)	69(152)	94(207)	113(249)	118(260)
Piping Connections (Small / Large)	mm		9.52/15.88	9.52/15.88	9.52/15.88	9.52/19.05	9.52/19.05
Max Pipe Length (Chargeless)	m		25	30	50	50	50
Height Difference	m		15	15	30	30	30
Operation Range	Cooling	°CDB	0~43	0~43	0~43	0~43	0~43
	Heating		-7~24	-7~24	-10~24	-10~24	-10~24
Refrigerant			R410A	R410A	R410A	R410A	R410A

## Flexible installation

Installation is done by "Standard setting" with more than 300mm (250mm) of space. "Slender setting" lets it suitable for minimum 265mm (215mm) installation space.

Installation Space (Built-in measurement)



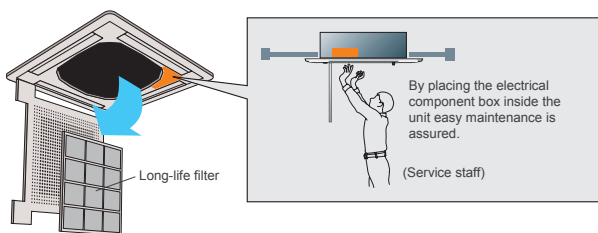
	25UU/30UU	36UU/45UU/54UU
Standard setting	250mm	300mm
Slender setting	215mm	265mm

## Easy maintenance

The control box is easily accessible for maintenance work. Wide opening for easy access.

### Detachable, washable filter and intake grille

Wide opening and long-life filter

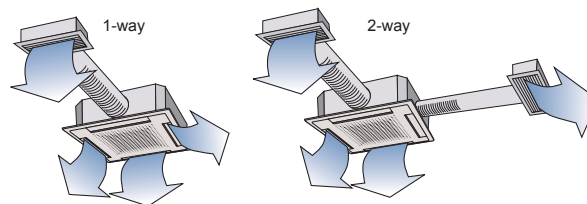


### Long-life filter

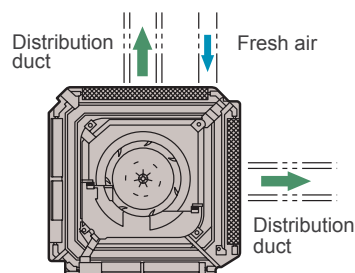
High efficiency, long-life filter extends the cleaning cycle.

## Duct connection hole opening

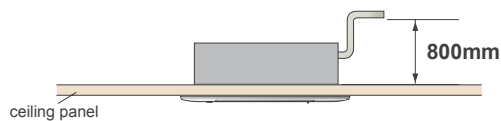
Conditioned air can be distributed by means of a distribution duct



Fresh air can be introduced through this opening



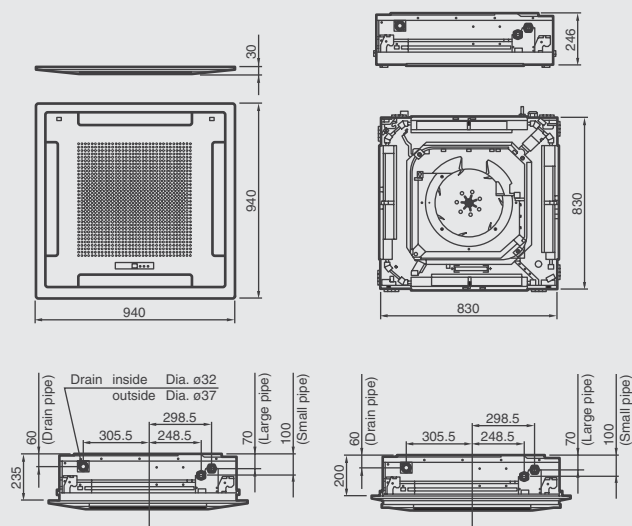
## Condensate pump lift to 800mm



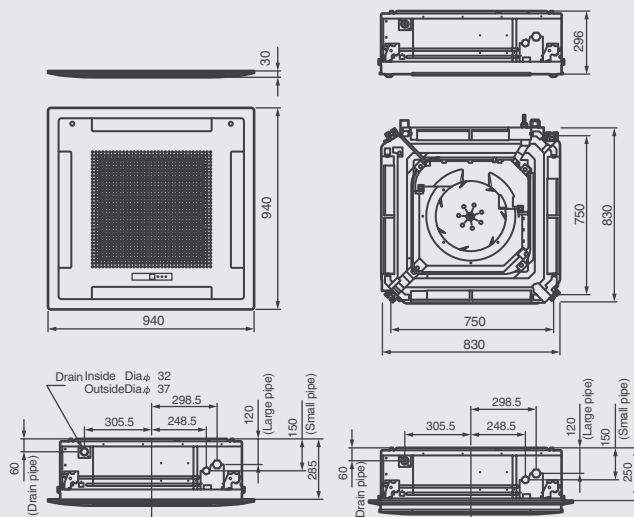
## Dimensions

(Unit : mm)

Models: AUY25UU / AUY30UU



Models: AUY36UU / AUY45UU / AUY54UU



# INVERTER

# Floor/Ceiling Universal



CLASS **A** ALL **DC**

**ABYF18LB**

CLASS **A** ALL **DC**

**ABYF24LB**



Wireless R.C.

Optional



Wired R.C.



V-PAM Double Adjust Restart Auto Changeover Fresh Fresh Economy Sleep Program W+S Filter Max.3

Optional Wired R.C. Optional

## Flexible installation

### Example for floor installation

Floor console



### Example for ceiling installation

Under ceiling



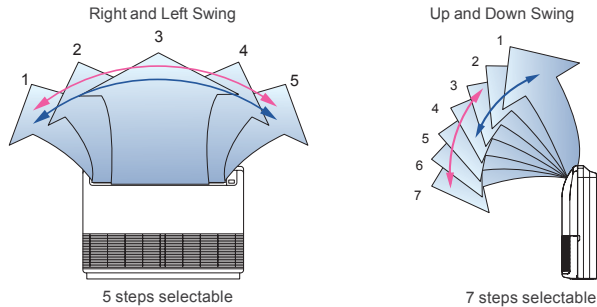
## Specifications

Model No.	Indoor unit		ABYF18LB	ABYF24LB
	Outdoor unit		AOYA18LA	AOYA24LA
Power Source	V/Ø/Hz		230/1/50	230/1/50
Capacity	Cooling	kW	5.20	7.10
	Heating		6.00	8.00
Input Power	Cooling/Heating	kW	1.62/1.66	2.21/2.21
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A
COP - Energy Class	Heating		3.61-A	3.61-A
Running Current	Cooling/Heating	A	7.1/7.3	9.7/9.7
Moisture Removal		l/h	2.0	2.7
Noise (Indoor)	Cooling   H/M/L/Q	dB(A)	43/40/34/31	48/44/40/35
Noise (Outdoor)	Cooling		50	52
Airflow Rate (High)	Indoor/Outdoor	m <sup>3</sup> /h	780/2000	980/2470
Net Dimension H x W x D	Indoor	mm	199x990x655	199x990x655
		kg(lbs)	27(60)	27(60)
	Outdoor	mm	578x790x300	578x790x315
		kg(lbs)	40(88)	44(97)
Piping Connections (Small / Large)		mm	6.35/12.70	6.35/15.88
Drain Pipe Diameter (Inner/Outer)		mm	21.5/26.0	21.5/26.0
Max Pipe Length (Chargeless)		m	25	30
Height Difference			15	20
Operation Range	Cooling	°CDB	-10~46	-10~46
	Heating		-15~24	-15~24
Refrigerant			R410A	R410A



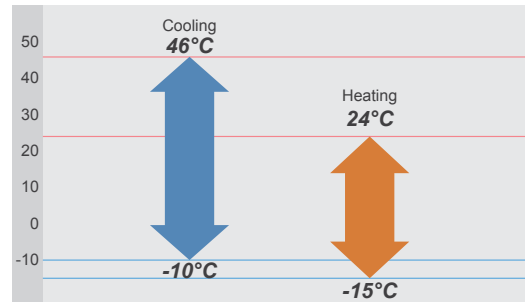
## Double auto swing

A combination of right/left and up/down directional swing allows 3-dimensional air direction control



⇒ Steps  
 → Swing: Cooling, Dry and Fan mode  
 → Swing: Heating and Fan mode

## Low ambient operation

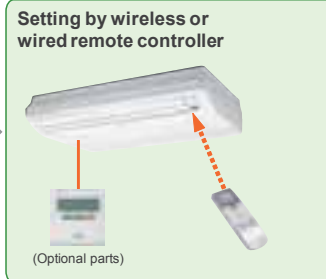
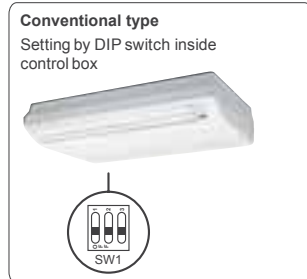


## Easy installation

Main work settings can be done easily from the remote controller at installation

### Main work settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

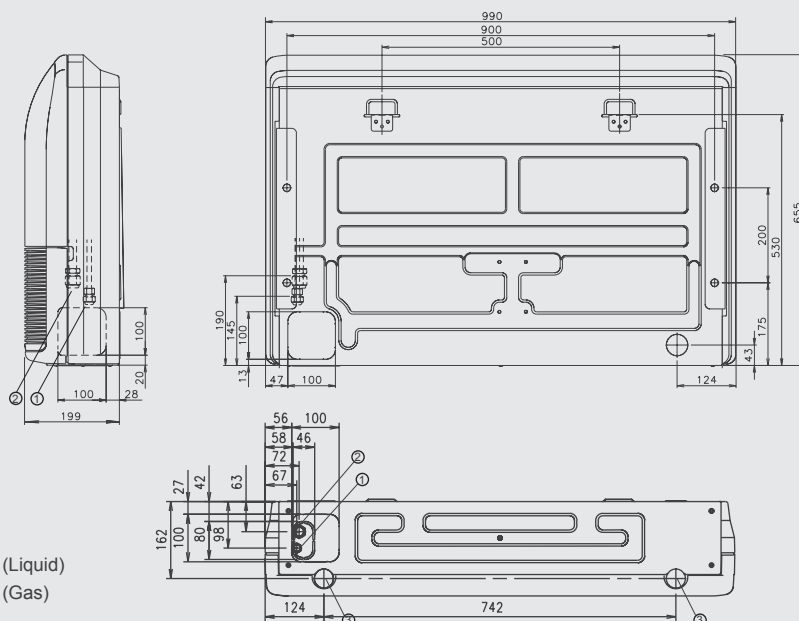


## Optional parts

- Wired Remote Controller: UTB-YUD
- External Indication Kit: UTY-XWZX
- External Control Set: UTD-ECS5A

## Dimensions Models: ABYF18LB / ABYF24LB

(Unit : mm)



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

# Floor/Ceiling Universal



## Flexible installation

### Example for floor installation

Floor console



### Example for ceiling installation

Under ceiling

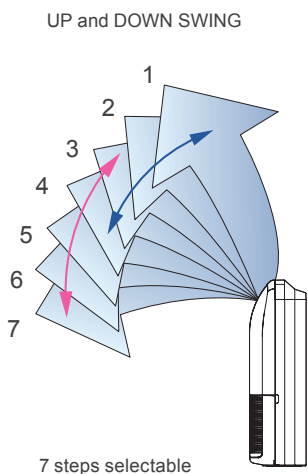
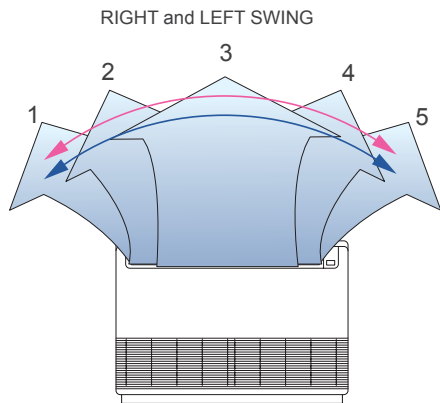


## Specifications

Model No.	Indoor unit		ABY14UB	ABY18UB	ABY24UB
	Outdoor unit		AOY14UB	AOY18UB	AOY24UB
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	4.00	5.40	6.50
	Heating		4.70	6.00	7.40
Input Power	Cooling/Heating kW		1.42/1.35	1.9/1.85	2.42/2.30
EER - Energy Class	Cooling		2.82-C	2.84-C	2.69-D
COP - Energy Class	Heating		3.48-B	3.24-C	3.22-C
Running Current	Cooling/Heating A		6.3/6.0	8.6/8.3	10.8/10.3
Moisture Removal			1.5	2.0	2.5
Noise (Indoor)	Cooling	H/M/L dB(A)	40/37/34	46/41/37	49/45/41
Noise (Outdoor)	Cooling		49	52	53
Airflow Rate (High)	Indoor/Outdoor m <sup>3</sup> /h		640/1600	780/3200	880/3200
Net Dimension H x W x D	Indoor	mm	199x990x655	199x990x655	199x990x655
		kg(lbs)	28(62)	28(62)	28(62)
	Outdoor	mm	530x750x250	650x830x320	650x830x320
		kg(lbs)	35(77)	52(115)	59(130)
Piping Connections (Small / Large)	mm		6.35/12.70	6.35/15.88	9.52/15.88
Max Pipe Length (Chargeless)	m		15	20	20
Height Difference	m		8	8	8
Operation Range	Cooling	°CDB	0~43	0~43	0~43
	Heating		-6~24	-6~24	-6~24
Refrigerant			R410A	R410A	R410A

### Double auto swing

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



### Super vane

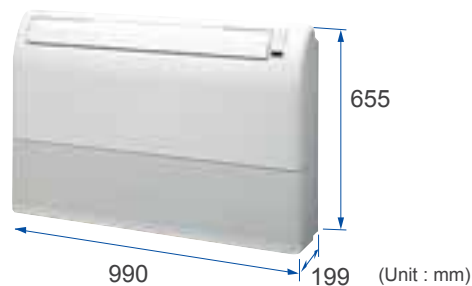
Double Louvre Super vane with newly developed special configuration boosts airflow sending cool air quickly to every corner of the room.

### Auto-closing louvre

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

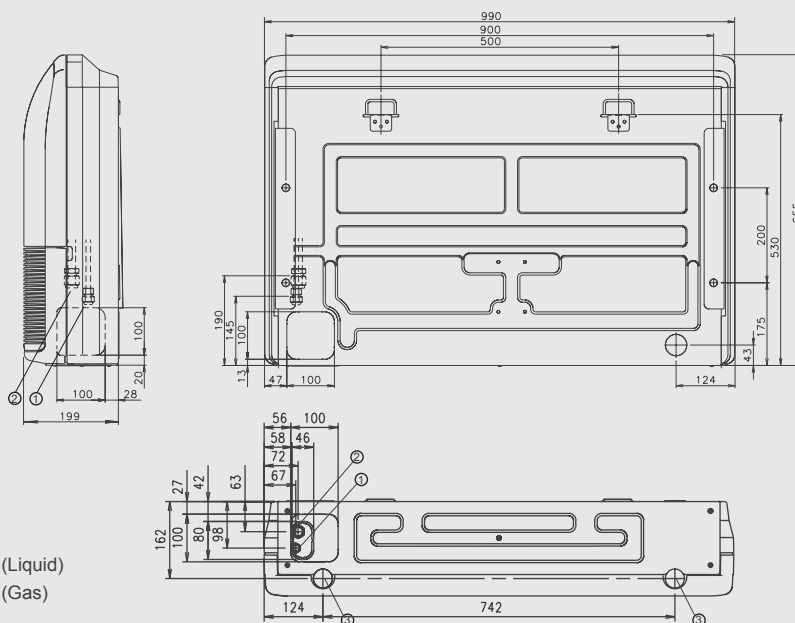
### Compact design

Symmetrical, slim and compact design.



## Dimensions Models: ABY14UB / ABY18UB / ABY24UB

(Unit : mm)



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

# INVERTER Ceiling

Easily concealed in any installation



CLASS **A** ALL **DC**  
ABYA30LB

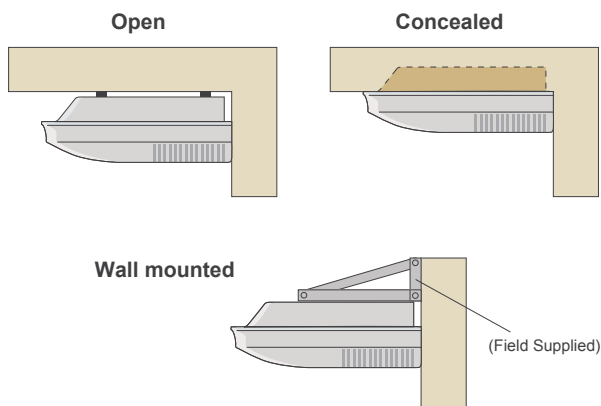
CLASS **A** ALL **DC**  
ABYA36LB  
ABYA36LC

CLASS **A** ALL **DC**  
ABYA45LC

CLASS **A** ALL **DC**  
ABYA54LC

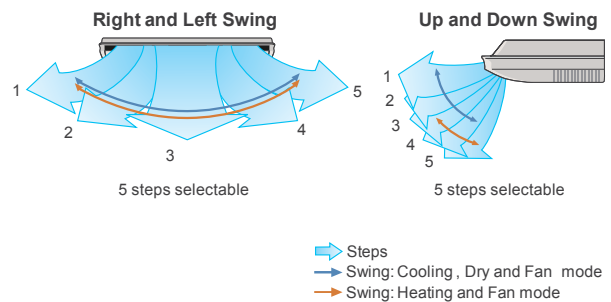
For ABYA45LC (For single phase)  
For ABYA36/45/54LC (For 3 phase)

## Installation



## Multi auto swing

A combination of right/left and up/down directional swing allows 3-dimensional air direction control.

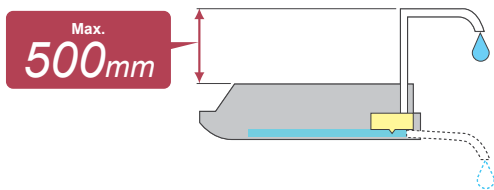


## Specifications

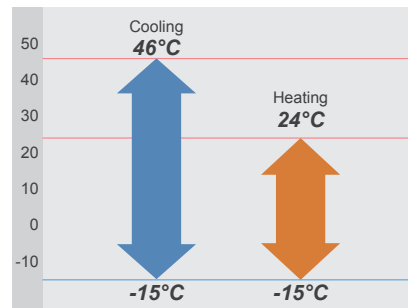
Model No.	Indoor unit		ABYA30LB	ABYA36LB	ABYA36LC	ABYA45LC	ABYA45LC	ABYA54LC
	Outdoor unit		AOYA30LF	AOYA36LF	AOYD36LA	AOYA45LB	AOYD45LA	AOYD54LA
Power Source	V/∅/Hz		230/1/50	230/1/50	400/3/50	230/1/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.50	9.40	10.00	12.50	12.50	14.00
	Heating		10.00	11.20	11.20	14.00	14.00	16.00
Input Power	Cooling/Heating	kW	2.65/2.77	2.93/3.02	2.84/2.87	3.89/3.77	3.89/3.88	4.65/4.67
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A	3.52-A	3.21-A	3.21-A	3.01-B
	Heating		3.61-A	3.71-A	3.9-A	3.71-A	3.61-A	3.43-B
Running Current	Cooling/Heating	A	11.6/12.2	12.8/13.2	4.3/4.4	17.0/16.5	5.8/5.8	6.9/6.9
Moisture Removal	l/h		2.5	3.0	3.0	4.5	4.5	5.0
Noise (Indoor)	Cooling	H/M/L/Q	45/43/37/32		47/43/37/32	49/45/39/34		51/48/42/38
Noise (Outdoor)	Cooling		53		51	55		55
Airflow Rate (High)	Indoor / Outdoor	m³/h	1660/3600	1900/3800	1900/6200	2100/6600	2100/6900	2300/6900
		mm	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700
Net Dimension H x W x D	Indoor	kg(lbs)	46(101)	46(101)	46(101)	46(101)	46(101)	48(106)
		mm	830×900×330	830×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330
	Outdoor	kg(lbs)	61(135)	61(135)	107(236)	98(216)	107(236)	107(236)
		mm	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700
Piping Connections (Small / Large)	mm		9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)	mm		22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6
Max Pipe Length (Chargeless)	m		50	50	75	50	75	75
Height Difference	m		30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15~46	-15~46	-15~46	-15~46	-15~46	-15~46
	Heating		-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A

### Condensate lift-up mechanism (Option)

Optional drain lift-up mechanism allows flexible installation.



### Low ambient operation

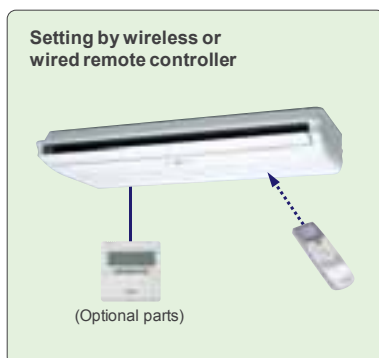
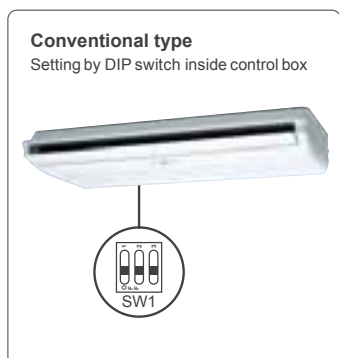


### Easy installation

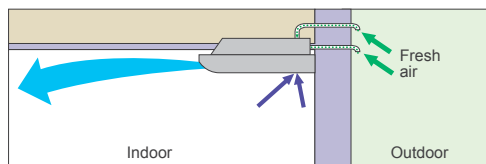
Main work settings can be done easily from the remote controller at installation

#### Main work settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating



### Fresh air intake



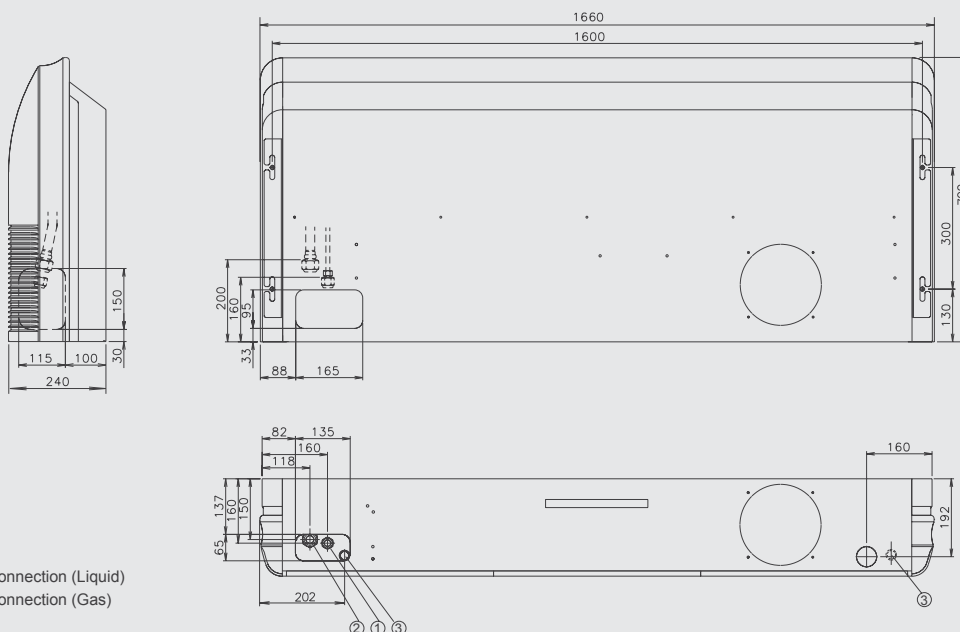
### Optional parts

- Wired Remote Controller: UTB-YUD
- Drain Pump Unit: UTR-DPB24T
- External Indication Kit: UTY-XWZX  
UTY-XWZXZ2
- External Control Set: UTD-ECS5A

## Dimensions

Models: ABYA30LB / ABYA36LB / ABYA36LC / ABYA45LC / ABYA54LC

(Unit : mm)

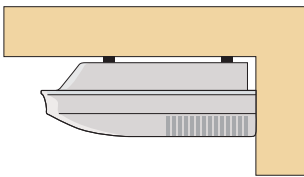


# Ceiling



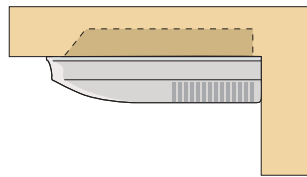
## Installation

Open



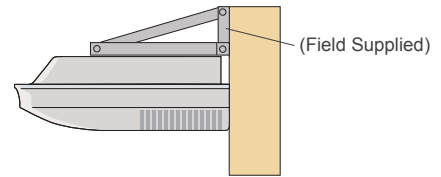
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

Wall mounted



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.

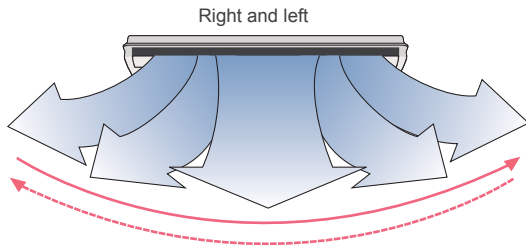
## Specifications

Model No.	Indoor unit		ABY30UB	ABY36UB	ABY45UB	ABY54UB
	Outdoor unit		AOY30UB	AOY36UB	AOY45UB	AOY54UB
Power Source	V/Ø/Hz		230/1/50	400/3/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.40	10.50	12.70	14.50
	Heating		9.50	11.80	14.30	16.50
Input Power	Cooling/Heating	kW	2.95/2.78	3.48/3.45	4.38/4.39	5.16/5.30
EER - Energy Class	Cooling	W/W	2.85-C	3.02-B	2.90	2.81
COP - Energy Class	Heating		3.42-B	3.42-B	3.26	3.11
Running Current	Cooling/Heating	A	13.6/13.1	5.9/6.2	7.7/7.7	9.5/9.5
Moisture Removal		l/h	3.0	4.0	5.0	6.0
Noise (Indoor)	Cooling	H/M/L dB(A)	42/39/35	45/42/37	48/46/41	52/50/46
Noise (Outdoor)	Cooling		53	54	54	54
Airflow Rate (High)	Indoor/Outdoor	m <sup>3</sup> /h	1450/3300	1660/6100	1850/6100	2200/6300
Net Dimension H x W x D	Indoor	mm	240x1660x700	240x1660x700	240x1660x700	240x1660x700
		kg(lbs)	48(106)	48(106)	48(106)	48(106)
	Outdoor	mm	830x900x330	1165x900x330	1165x900x330	1290x900x330
		kg(lbs)	69(152)	94(207)	113(249)	118(260)
Piping Connections (Small / Large)		mm	9.52/15.88	9.52/15.88	9.52/19.05	9.52/19.05
Max Pipe Length (Chargeless)		m	30	50	50	50
Height Difference		m	15	30	30	30
Operation Range	Cooling	°CDB	0~43	0~43	0~43	0~43
	Heating		-7~24	-10~24	-10~24	-10~24
Refrigerant			R410A	R410A	R410A	R410A



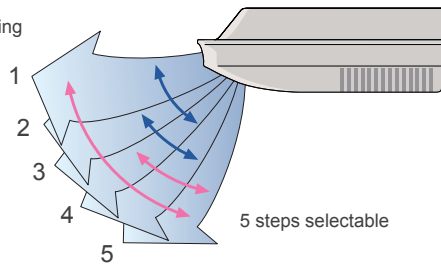
### Double auto swing and wide airflow

Auto airflow direction and auto swing



5 steps selectable

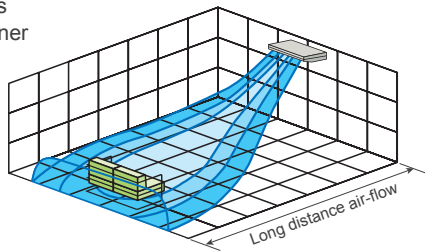
Up and Down Swing



5 steps selectable

### Long Airflow

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



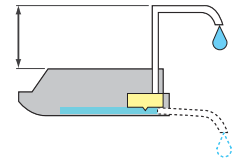
### Slim & Compact design



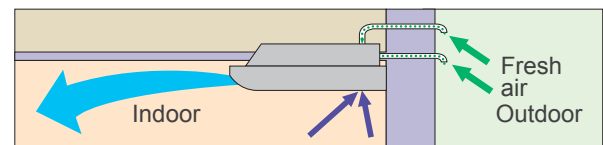
### Condensate lift-up mechanism (Option)

Optional drain lift-up mechanism allows flexible installation.

Max. 500mm



### Fresh air intake



### Long-life filter

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

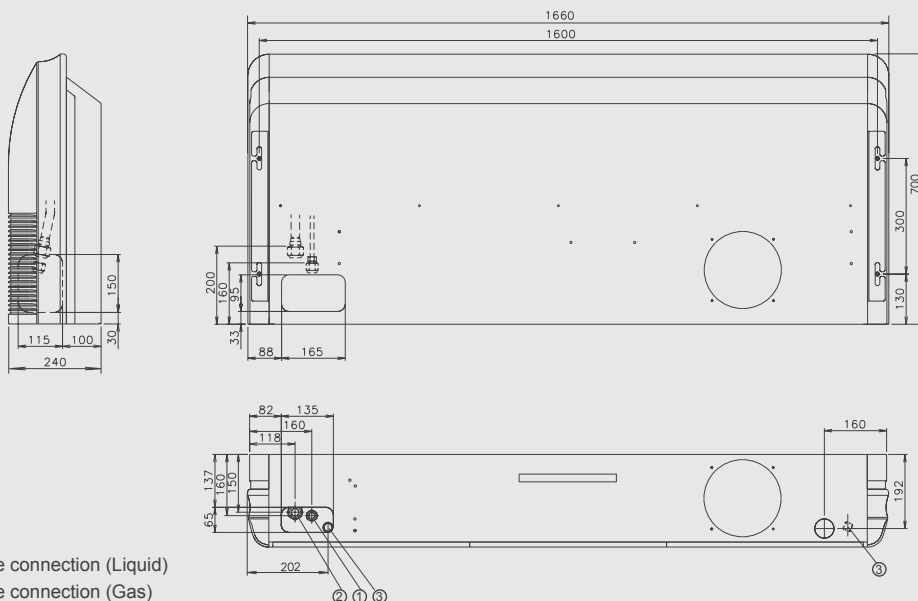
### Optional parts

Drain Pump Unit: UTR-DPB24T

## Dimensions


Models: ABY30UB / ABY36UB / ABY45UB / ABY54UB


(Unit : mm)




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

# INVERTER Compact Duct







V-PAM




Adjust




Restart




Changeover




Fresh




Economy




Sleep



Program




W+S




Max.3

Optional (18)




Wired R.C.

Optional



IR Receiver Unit



CLASS ALL  
**A DC**

ARYF12LA

CLASS ALL  
**A DC**

ARYF14LA

CLASS ALL  
**A DC**

ARYF18LB

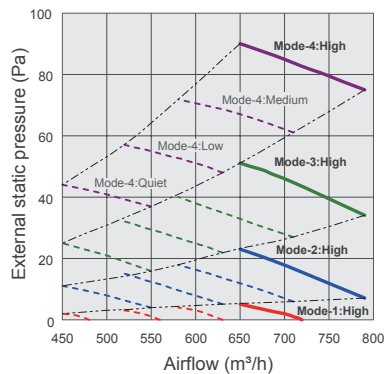
## Static pressure mode setting

Static pressure mode can be selected from 4 modes, to meet wide-ranging installation conditions.

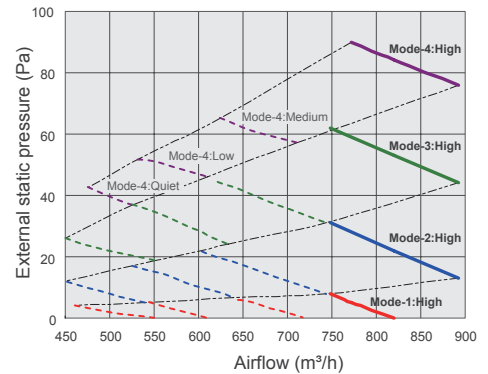
### Static pressure range (High speed mode)

**ARYF12LA/14LA/18LB 0 to 90 Pa**

In case of ARYF12LA



In case of ARYF14LA/18LB

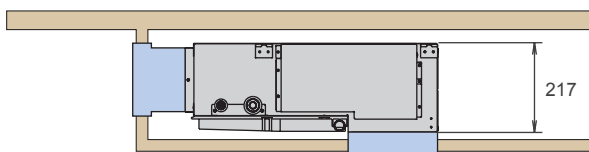


## Specifications

Model No.	Indoor unit		ARYF12LA	ARYF14LA	ARYF18LB
	Outdoor unit		AOYA12LA	AOYA14LA	AOYA18LA
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	3.50	4.30	5.20
	Heating		4.10	5.00	6.00
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66
EER - Energy Class	Cooling	W/W	3.33-A	3.21-A	3.21-A
COP - Energy Class	Heating		3.69-A	3.71-A	3.61-A
Running Current	Cooling/Heating	A	4.6/4.9	5.8/5.9	7.1/7.3
Moisture Removal		l/h	1.3	1.5	2.0
Noise (Indoor)	Cooling   H/M/L/Q	dB(A)	32/30/28/26	33/31/29/27	33/31/29/27
Noise (Outdoor)	Cooling		47	49	50
Airflow Rate (High)	Indoor/Outdoor	m³/h	720/1780	870/1910	820/2000
Net Dimension H x W x D	Indoor	mm	217x953x595	217x953x595	217x953x595
		kg(lbs)	23(51)	23(51)	23(51)
	Outdoor	mm	578x790x300	578x790x300	578x790x300
		kg(lbs)	40(88)	40(88)	40(88)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/12.70	6.35/12.70
Drain Pipe Diameter (Inner/Outer)		mm	21.5/26.0	21.5/26.0	21.5/26.0
Max Pipe Length (Chargeless)		m	25	25	25
Height Difference			15	15	15
Operation Range	Cooling	°CDB	-10~46	-10~46	-10~46
	Heating		-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

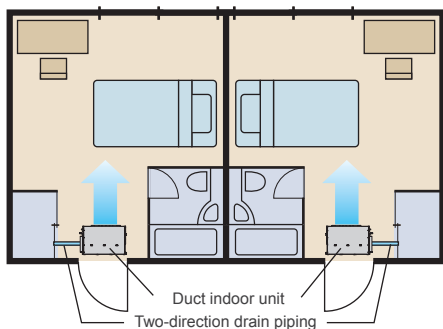
## Compact design

Ultra-slim duct air conditioner for easy installation



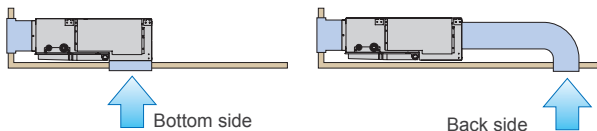
Slim size (217mm) allows installation even where the space behind the ceiling is narrow.

## Two-direction drain piping

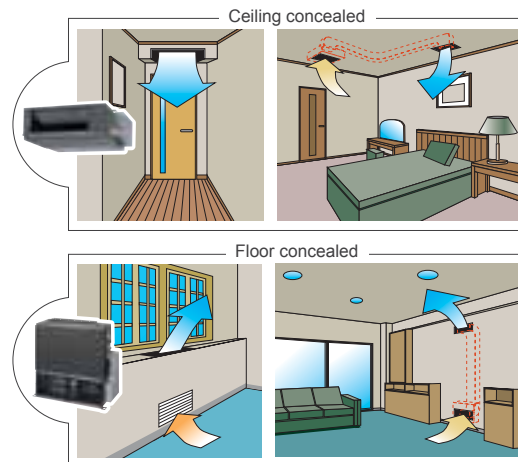


## Air-intake

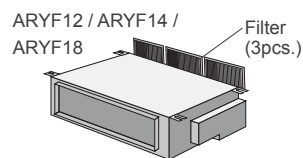
Air intake direction can be selected to match the installation site.



## Flexible installation



## Filter (Accessory)



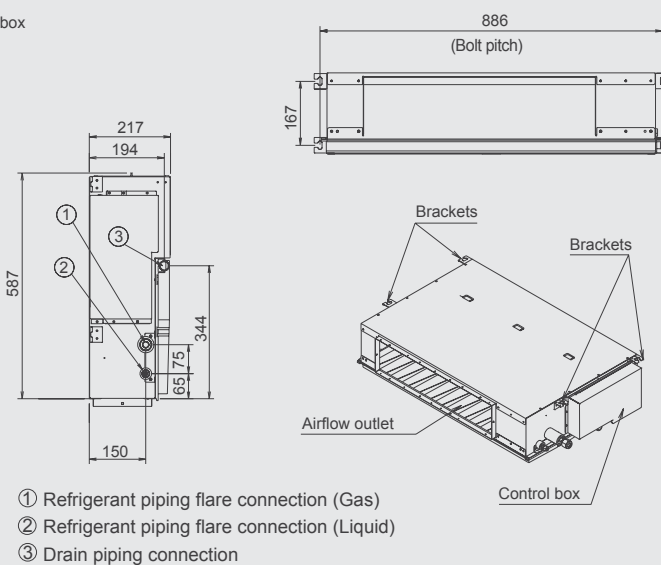
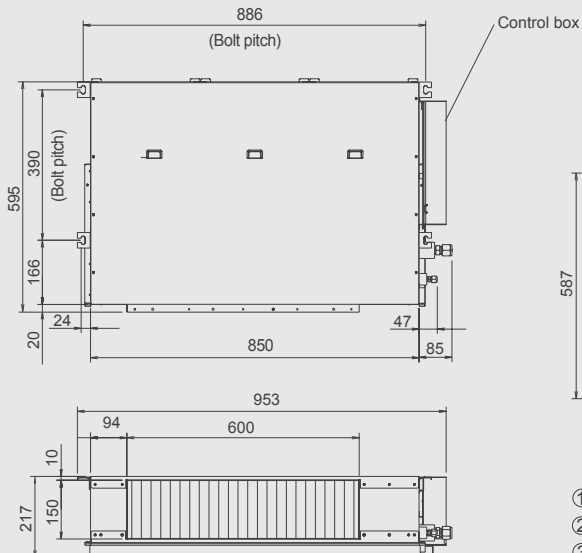
## Optional parts

- Remote Sensor Unit: UTD-RS100
- IR Receiver Unit: UTY-LRHY1
- Drain Pump Unit: UTZ-PX1BBA
- External Control Set: UTD-ECS5A

## Dimensions Models: ARYF12LA / ARYF14LA / ARYF18LB

(Unit : mm)

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



# Compact Duct



## Optional function for comfort

### Optional parts

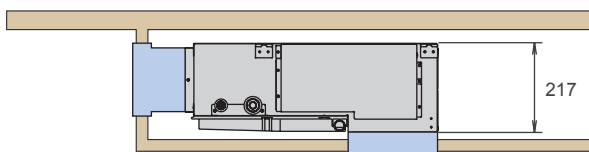


## Specifications

Model No.	Indoor unit		ARY7UU	ARY9UU	ARY12UU	ARY14UU	ARY18UU	
	Outdoor unit		AOY7UU	AOY9UU	AOY12UU	AOY14UU	AOY18UU	
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Capacity	Cooling	kW	2.15	2.70	3.50	4.00	5.40	
	Heating		2.45	3.10	4.00	4.70	6.00	
Input Power	Cooling/Heating	kW	0.76/0.76	0.96/0.96	1.24/1.21	1.42/1.35	1.92/1.87	
EER - Energy Class	Cooling	W/W	2.83-C	2.81-C	2.82-C	2.82-C	2.81-C	
COP - Energy Class	Heating		3.22-C	3.23-C	3.31-C	3.48-B	3.21-C	
Running Current	Cooling/Heating	A	3.6/3.6	4.4/4.5	5.5/5.4	6.3/6.0	8.8/8.7	
Moisture Removal			l/h	0.8	1.0	1.2	1.5	1.6
Noise (Indoor)	Cooling	H/M/L	dB(A)	31/28/26	35/33/31	29/28/27	34/32/30	43/40/36
Noise (Outdoor)	Cooling			48	48	49	49	52
Airflow Rate (High)	Indoor/Outdoor	m <sup>3</sup> /h		340/1600	420/1600	500/1600	640/1600	1000/3200
Net Dimension H x W x D	Indoor	mm	217x663x595	217x663x595	217x953x595	217x953x595	217x953x595	
		kg(lbs)	18(40)	18(40)	25(55)	25(55)	25(55)	
	Outdoor	mm	530x750x250	530x750x250	530x750x250	530x750x250	650x830x320	
		kg(lbs)	28(62)	30(66)	34(75)	35(77)	52(115)	
Piping Connections (Small / Large)	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/15.88	
Max Pipe Length (Chargeless)	m		15	15	15	15	20	
Height Difference	m		8	8	8	8	8	
Operation Range	Cooling	°CDB	0~43	0~43	0~43	0~43	0~43	
	Heating		-6~24	-6~24	-6~24	-6~24	-6~24	
Refrigerant			R410A	R410A	R410A	R410A	R410A	

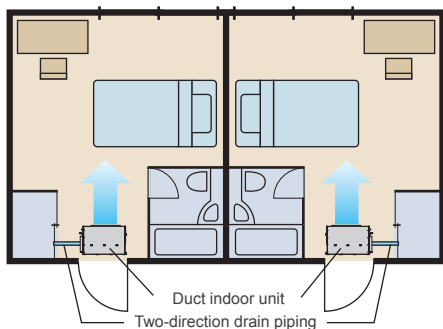
## Compact design

Ultra-slim duct air conditioner for easy installation



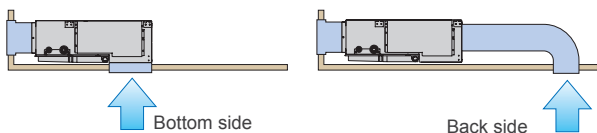
Slim size (217mm) allows installation even where the space behind the ceiling is narrow.

## Two-direction drain piping

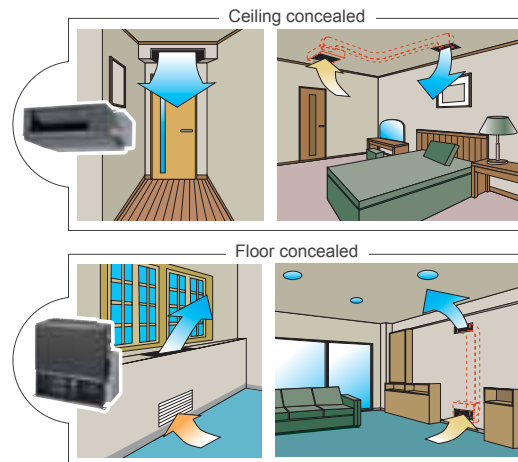


## Air-intake

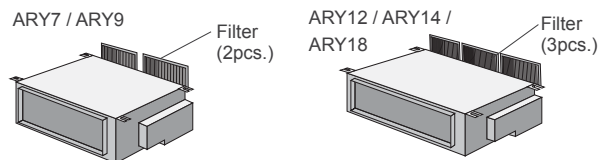
Air intake direction can be selected to match the installation site.



## Flexible installation



## Filter (Accessory)



## Optional parts

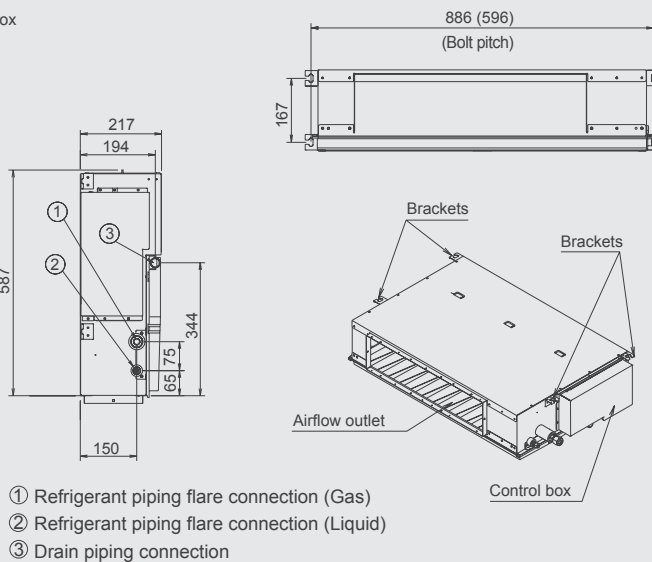
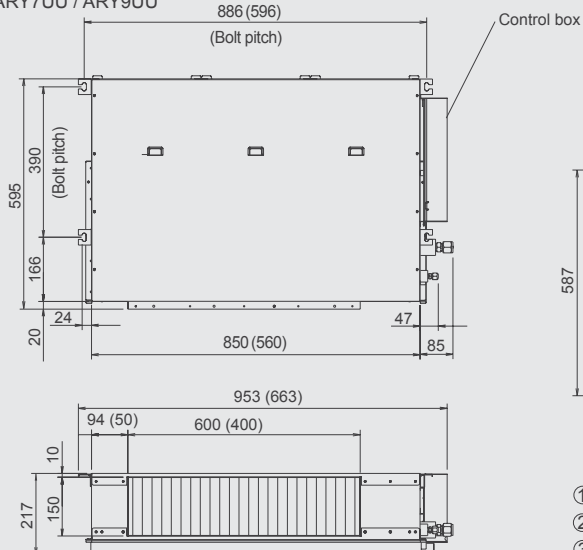
Remote Sensor Unit: UTD-RS100  
IR Receiver Unit: UTY-LRJY1  
Drain Pump Unit: UTZ-PX1BBA

## Dimensions Models: ARY7UU / ARY9UU / ARY12UU / ARY14UU / ARY18UU

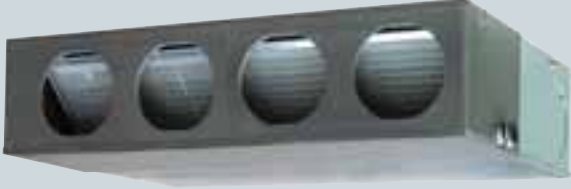
(Unit : mm)

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

( ) : ARY7UU / ARY9UU



## Duct



**CLASS A ALL DC**

**ARYF24LB**

**CLASS A ALL DC**

**ARYA30LB**

**CLASS A ALL DC**

**ARYA36LB**  
**ARYA36LC**

**CLASS A ALL DC**

**ARYA45LC**

**CLASS A ALL DC**

**ARYA45LC**  
(For single phase)

**CLASS A ALL DC**

**ARYA36/45LC**  
(For 3 phase)

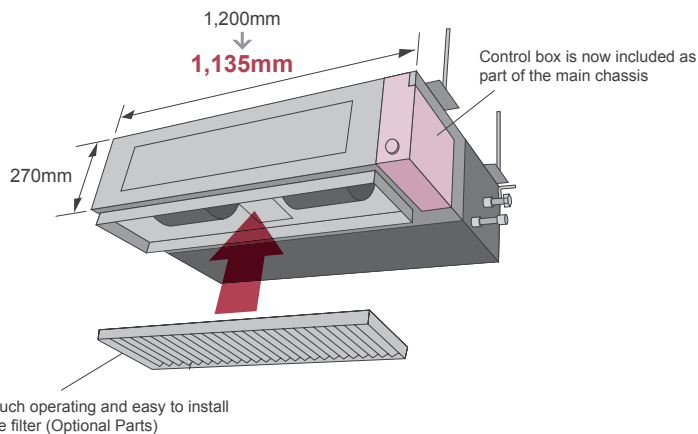
V-PAM (24/30/36)
i-PAM (45)
Adjust
Restart
Auto Changeover
Distributing
Fresh
Fresh
Economy
Sleep
Program
W+S
Max.3

Optional
Wireless R.C. (24)

Wired R.C.
Wireless R.C.

### Slim & Compact design

In the case of bottom return air connection, not only does the indoor 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.



### Specifications

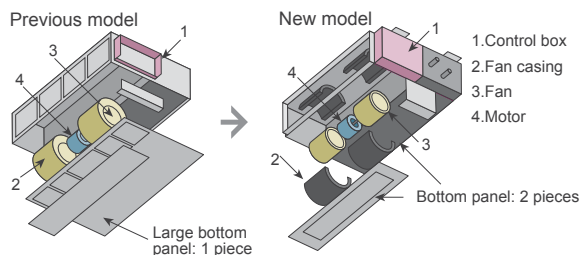
Model No.	Indoor unit		ARYF24LB	ARYA30LB	ARYA36LB	ARYA36LC	ARYA45LC	ARYA45LC
	Outdoor unit		AOYA24LA	AOYA30LF	AOYA36LF	AOYD36LA	AOYA45LB	AOYD45LA
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	400/3/50	230/1/50	400/3/50
Capacity	Cooling	kW	7.10	8.50	9.40	10.00	12.50	12.50
	Heating		8.00	10.00	11.20	11.20	14.00	14.00
Input Power	Cooling/Heating	kW	2.21/2.21	2.65/2.68	2.93/3.1	2.84/2.87	3.89/3.77	3.89/3.88
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A	3.21-A	3.52-A	3.21-A	3.21-A
COP - Energy Class	Heating		3.61-A	3.73-A	3.61-A	3.90-A	3.71-A	3.61-A
Running Current	Cooling/Heating	A	9.7/9.7	11.6/11.7	12.8/13.6	4.3/4.4	17/16.5	5.8/5.8
Moisture Removal	l/h		2.5	2.5	3.0	3.0	3.5	4.5
Noise (Indoor)	Cooling	H/M/L/Q	31/29/27/25		42/37/32/29		40/36/31/26	
Noise (Outdoor)	Cooling		52		53		51	
Airflow Rate (High)	Indoor / Outdoor		m <sup>3</sup> /h		mm		mm	
			1100/2470	2100/3600	2100/3800	1850/6200	2250/6600	2100/6900
Net Dimension H x W x D	Indoor	kg(lbs)	38(84)	40(88)	40(88)	40(88)	41(90)	40(88)
		mm	578x790x315	830x900x330	830x900x330	1290x900x330	1290x900x330	1290x900x330
	Outdoor	kg(lbs)	44(97)	61(135)	61(135)	107(236)	98(216)	107(236)
		mm	635/15.88	952/15.88	952/15.88	952/15.88	952/15.88	952/15.88
Piping Connections (Small / Large)	mm		6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	
Drain Pipe Diameter (Inner/Outer)	mm		36.0/38.0	36.0/38.0	36.0/38.0	36.0/38.0	36.0/38.0	
Max Pipe Length (Chargeless)	m		30	50	50	75	50	75
Height Difference	m		20	30	30	30	30	30
Operation Range	Cooling	°CDB	-10~46	-15~46	-15~46	-15~46	-15~46	-15~46
	Heating		-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A



## Easy maintenance

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.

See below for the case of rear suction type

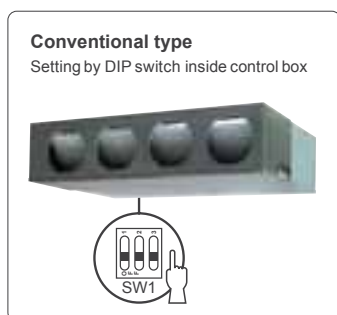


## Easy installation

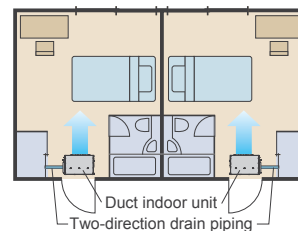
Main work settings can be done easily from the remote controller at installation

### Main work settings

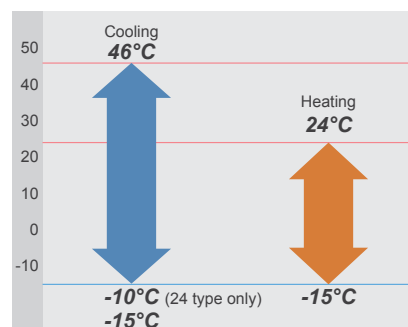
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating



## Two-direction drain piping



## Low ambient operation



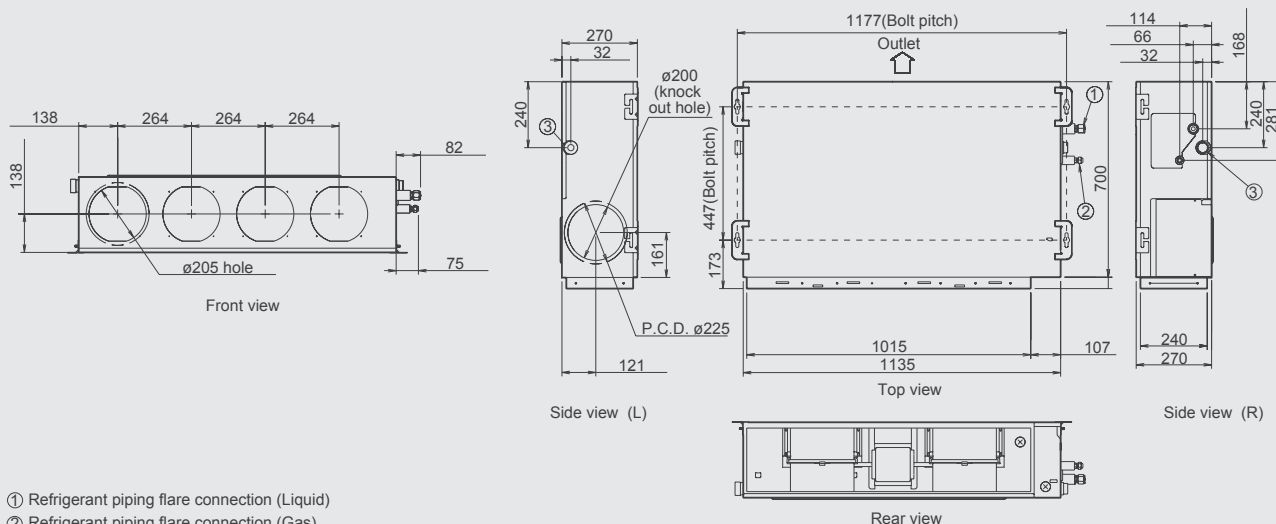
## Optional parts

Flange (Round):	UTD-RF204
Flange (Square):	UTD-SF045T
Long Life Filter:	UTD-LF25NA
Remote Sensor Unit:	UTD-RS100
External Indication Kit:	UTY-XWZXZ2
External Control Set:	UTD-ECS5A
Drain Pump Unit:	UTZ-PX1NBA
IR Receiver Unit:	UTY-LRHY1

## Dimensions

Models: ARYF24LB / ARYA30LB / ARYA36LB / ARYA36LC / ARYA45LC

(Unit : mm)



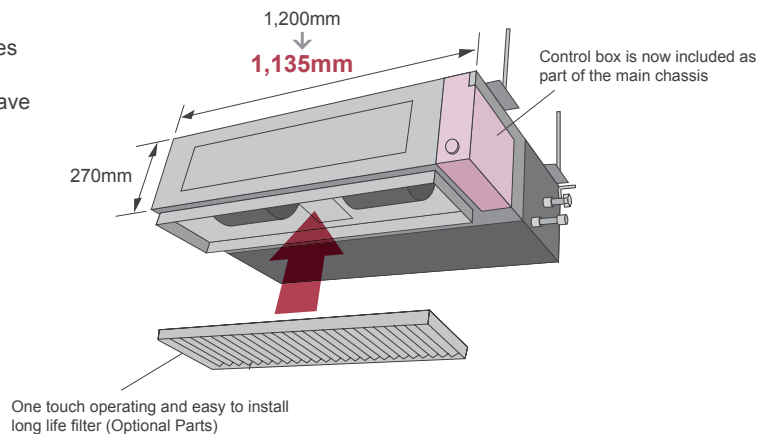
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

# Duct



## Slim & Compact design

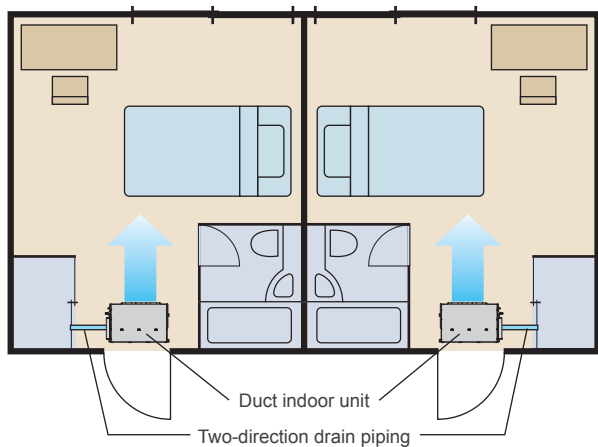
In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of up to 270mm, Further space savings have been achieved by mounting the electrical control box internally inside the chassis.



## Specifications

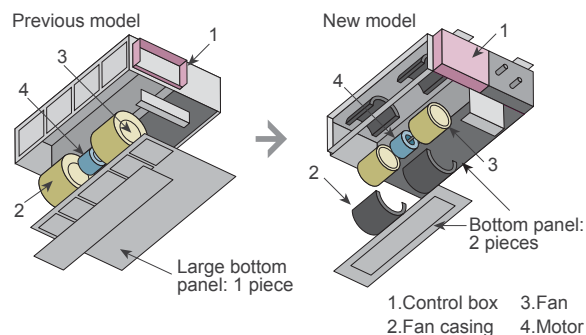
Model No.	Indoor unit		ARY25UU	ARY30UU	ARY36U(1)	ARY36UU	ARY45UU		
	Outdoor unit		AOY25UU	AOY30UU	AOY36UU(1)	AOY36UU	AOY45UU		
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	400/3/50	400/3/50		
Capacity	Cooling	kW	7.00	8.40	10.50	10.50	12.70		
	Heating		7.70	9.50	12.70	12.70	14.30		
Input Power	Cooling/Heating		kW		2.65/2.33	2.99/2.63	3.60/3.65	3.60/3.65	4.38/4.39
EER - Energy Class	Cooling	W/W	2.64-D	2.81-C	2.92-C	2.92-C	2.90		
COP - Energy Class	Heating		3.30-C	3.61-A	3.48-B	3.48-B	3.26		
Running Current	Cooling/Heating		A		11.8/10.5	14.0/12.4	16.0/16.5	6.1/6.2	7.7/7.7
Moisture Removal			l/h		2.5	3.0	3.5	3.5	5.0
Noise (Indoor)	Cooling	H/M/L	dB(A)		38/36/34	40/38/36	43/41/39	43/41/39	44/42/40
Noise (Outdoor)	Cooling		53	53	54	54	54		
Airflow Rate (High)	Indoor/Outdoor		m³/h		1100/3200	1400/3300	1750/6100	1750/6100	1800/6100
Net Dimension H x W x D	Indoor	mm	270x1135x700	270x1135x700	270x1135x700	270x1135x700	270x1135x700		
		kg(lbs)	43(95)	43(95)	43(95)	43(95)	45(99)		
	Outdoor	mm	650x830x320	830x900x330	1165x900x330	1165x900x330	1165x900x330		
		kg(lbs)	59(130)	69(152)	98(216)	94(207)	113(249)		
Piping Connections (Small / Large)			mm		9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/19.05
Max Pipe Length (Chargeless)			m		25	30	50	50	50
Height Difference			m		15	15	30	30	30
Operation Range	Cooling	°CDB	0~43		0~43	0~43	0~43	0~43	
	Heating		-7~24		-7~24	-10~24	-10~24	-10~24	
Refrigerant			R410A		R410A	R410A	R410A	R410A	

## Two-direction drain piping



## Easy maintenance

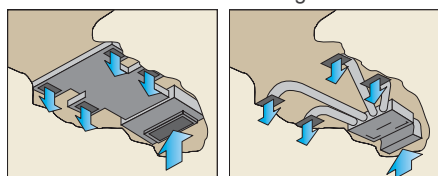
See below for the case of rear suction type



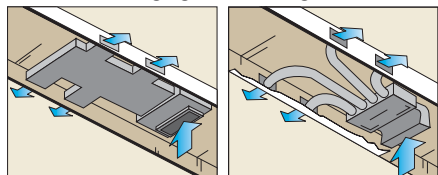
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

## Installation styles

Embedded in Ceiling



Hanging from Ceiling



## Optional parts

Remote Sensor Unit:	UTD-RS100
Drain Pump Unit:	UTZ-PX1NBA
External Control Set:	UTD-ECS5A

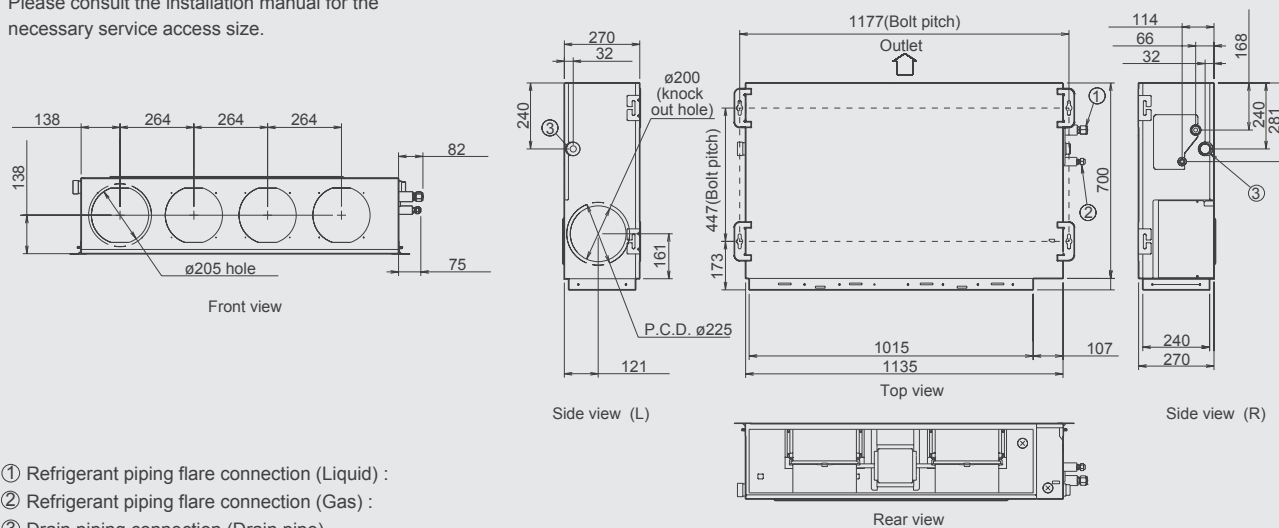
## Dimensions

Models: ARY25UU / ARY30UU / ARY36U(1) / ARY36UU / ARY45UU

(Unit : mm)

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

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



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

# INVERTER

# High Static Pressure Duct



**ARY45LH**      **ARY54LU**  
**ARYC45LC**    **ARYC54LC**

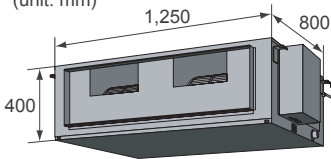
For ARY45LH/54LU      For ARYC45LC/54LC

## Easy installation (Compact size & Lightweight)

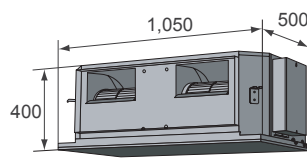
A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.

<b>Volume</b> <b>47.5%</b> down	<b>Weight</b> <b>40%</b> down
---------------------------------------	-------------------------------------

(unit: mm)



Previous model : 75kg

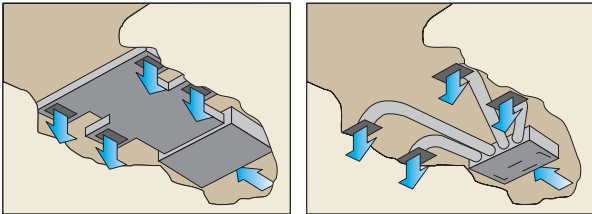
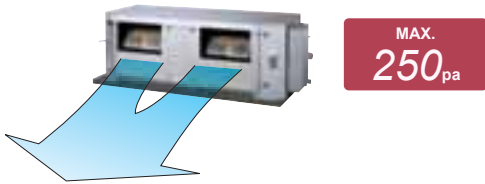


New model : 46kg (ARYC45LC/54LC)

## Specifications

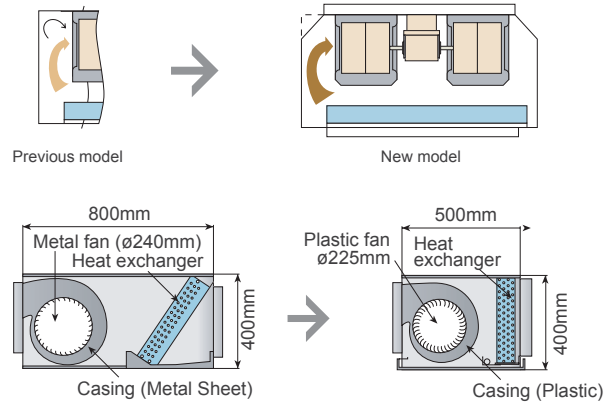
Model No.	Indoor unit		ARY45LH	ARYC45LC	ARY54LU	ARYC54LC
	Outdoor unit		AOY45LH	AOYD45LA	AOY54LU	AOYD54LA
Power Source	V/∅/Hz		230/1/50	400/3/50	230/1/50	400/3/50
Capacity	Cooling	kW	12.50	12.50	14.00	14.00
	Heating	kW	14.00	14.00	16.00	16.00
Input Power	Cooling/Heating	kW	4.30/3.80	4.06/3.67	5.36/4.70	4.65/4.37
EER - Energy Class	Cooling	W/W	2.91	3.08-B	2.61	3.01-B
COP - Energy Class	Heating		3.68	3.81-A	3.40	3.66-A
Running Current	Cooling/Heating	A	18.9/16.7	6.1/5.5	23.6/20.6	6.9/6.5
Moisture Removal		l/h	3.0	1.5	4.0	2.5
Noise (Indoor)	Cooling   H/ML	dB(A)	49/45/42	47/43/40	49/45/42	47/43/40
Noise (Outdoor)	Cooling		54	54	54	55
Airflow Rate (High)	Indoor/Outdoor	m³/h	3500/6600	3350/6900	3500/6600	3350/6900
Net Dimension H x W x D	Indoor	mm	400x1050x500	400x1050x500	400x1050x500	400x1050x500
		kg(lbs)	50(110)	46(101)	50(110)	46(101)
	Outdoor	mm	1290x900x330	1290x900x330	1290x900x330	1290x900x330
		kg(lbs)	105(231)	107(236)	105(231)	107(236)
Piping Connections (Small / Large)		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	21.5/25.4	23.4/25.4	21.5/25.4	23.4/25.4
Max Pipe Length (Chargeless)	m		70	75	70	75
			30	30	30	30
Height Difference	°CDB		30	30	30	30
			-15~43	-15~46	-15~43	-15~46
Operation Range	Cooling		-15~43	-15~46	-15~43	-15~46
	Heating		-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A

### Design also corresponding to high static pressure



### Low noise

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.

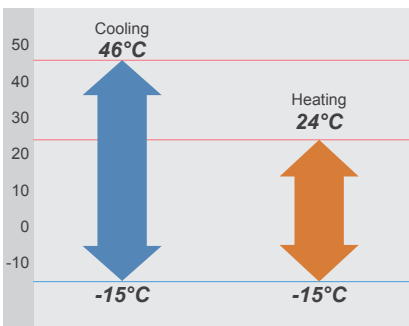


Previous model :  
Metal fan [53.1dB(A)]

New model :  
Plastic fan [45dB(A)]

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

### Low ambient operation (ARYC45LC/54LC)



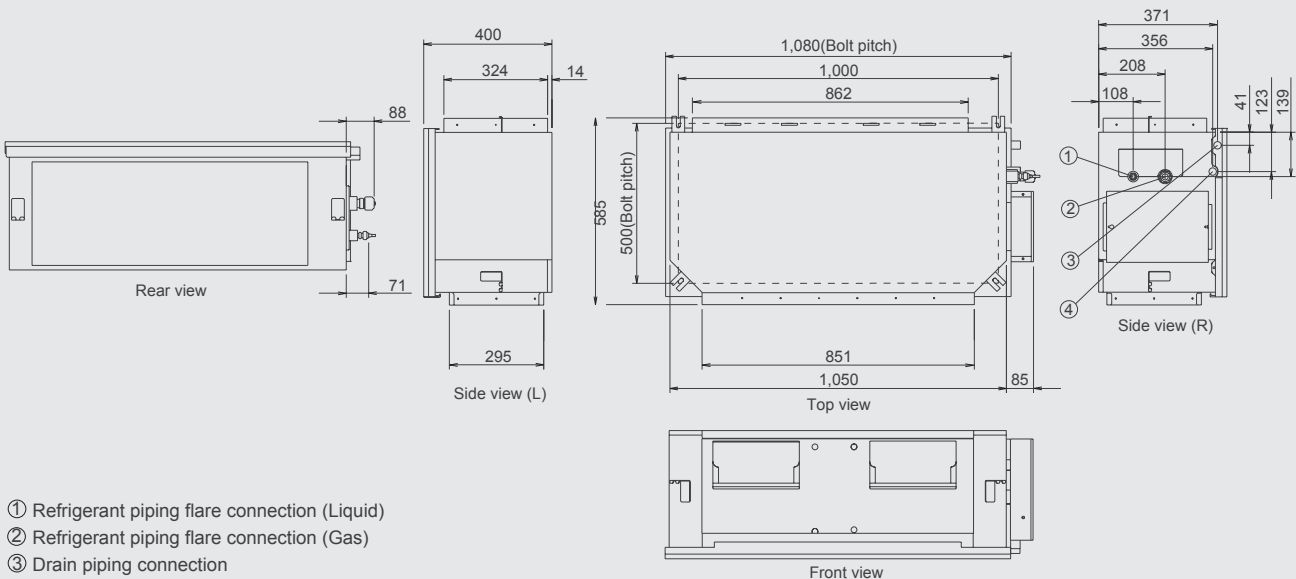
### Optional parts

- Long-Life Filter: UTD-LF60KA
- External Indication Kit: UTY-XWZXZ2
- External Control Set: UTD-ECS5A

### Dimensions

Models: ARY45LH / ARY54LU  
ARYC45LC / ARY54LC

(Unit : mm)

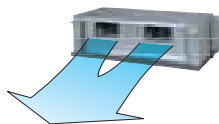


# High Static Pressure Duct

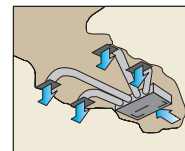
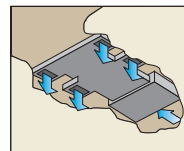


Design also corresponding to high static pressure

Model: ARY90TL



MAX.  
300<sub>pa</sub>



## Specifications

Model No.	Indoor unit		ARY60UU	ARY90TL
	Outdoor unit		AOY60UU	AOY90TL
Power Source	V/Ø/Hz		400/3/50	380-415/3/50
Capacity	Cooling	kW	16.50	24.80-25.40
	Heating		19.50	28.90-29.50
Input Power	Cooling/Heating	kW	6.06/5.54	12.2/12.2
EER - Energy Class	Cooling	W/W	2.72	2.03-2.03
COP - Energy Class	Heating		3.52	2.37-2.36
Running Current	Cooling/Heating	A	10.2/9.8	19.5/19.5
Moisture Removal		l/h	4.0	7.5
Noise (Indoor)	Cooling	H/M/L	49/45/42	50
	Heating			59
Noise (Outdoor)	Cooling		54	59
Airflow Rate (High)	Indoor/Outdoor	m <sup>3</sup> /h	3500/6300	4300/9800
Net Dimension H x W x D	Indoor	mm	400x1050x500	450x1550x700
		kg(lbs)	50(110)	85(187)
	Outdoor	mm	1290x900x330	1380x1300x650
		kg(lbs)	118(260)	245(540)
Piping Connections (Small / Large)		mm	9.52/19.05	12.70/28.58
Max Pipe Length (Chargeless)		m	50	50
Height Difference			30	30
Operation Range	Cooling	°CDB	0~43	0~46
	Heating		-10~24	-10~21
Refrigerant			R410A	R407C

\*The measurement static pressure of ARY60UU is 100Pa and ARY90TL is 196Pa.

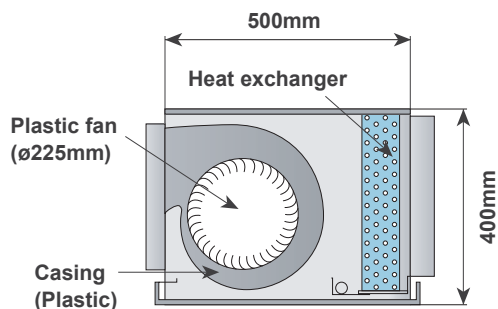


## Low noise

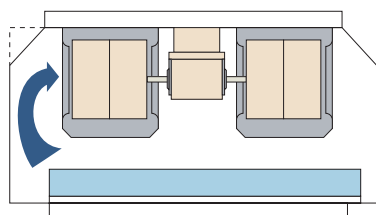
Turbulent air flow is reduced by cutting off the corners of conventional indoor unit front panel and fan case

Low noise is realized by adopting plastic case, plastic fan.

### Plastic fan [45dB(A)] (ARY60UU)



(ARY60UU)



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

## Pursuance of amenity performance

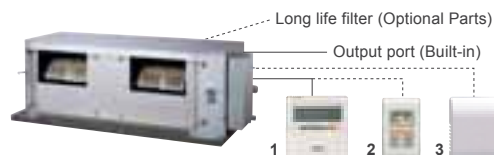
Various remote controllers and sensors can be selected

### 1.Wired Remote Controller with Thermo Sensor

- Room temperature sensor selection
- WEEKLY timer
- Temperature SET BACK timer
- Group control system
- Child lock
- Dual remote controllers <Optional parts>
- AUTO restart
- Energy saving
- Auto changeover (for heating)
- Hot start (for heating)

### 2.Simple Remote Controller (Optional Parts)

### 3.Remote Sensor (Optional Parts)



## Optional parts

Long-Life Filter: UTD-LF60KA (For ARY60UU)

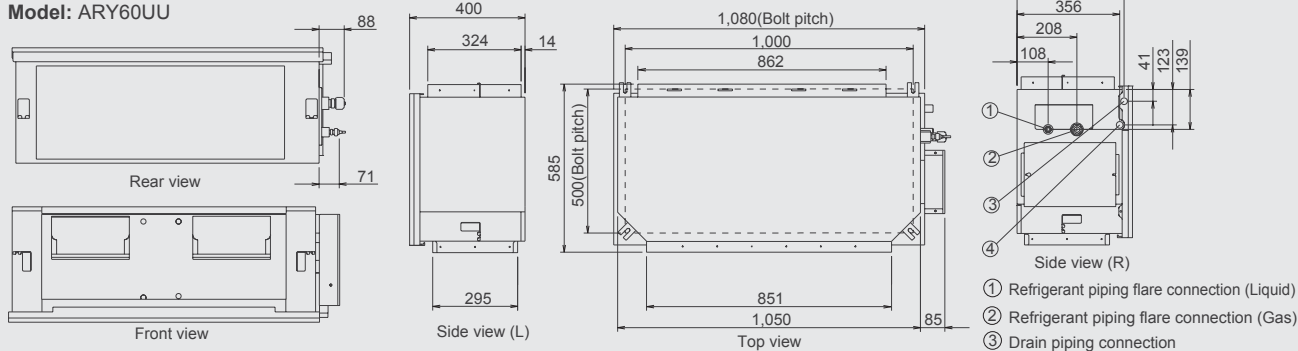
Remote Sensor Unit: UTD-RS100

External Control Set: UTD-ECS5A (For ARY60UU)

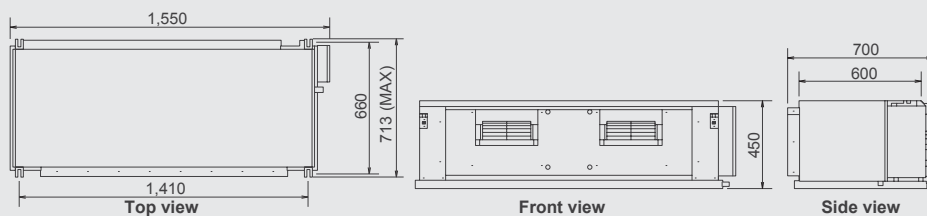
## Dimensions

(Unit : mm)

Model: ARY60UU



Model: ARY90TL



# Multi Split

Control several indoor units with one outdoor unit.  
Build the optimum system you desire.

If you want to keep a large floor as well as many rooms comfortable, we recommend you use Multi Split to build a simple system using one outdoor unit.

Choose from a large lineup the air conditioner types that match your rooms.

You can mix and match them at will.

Build the system that is just right for you.



**062** 2 & 3-4 Rooms Multi

**070** 8 Rooms Multi

**074** Simultaneous Multi

**076** Big Multi



Home, Office  
& Store




## Multiple Rooms **Comfortably** Multi Split type Air Conditioners

Multi Split provides comfort in a variety of situations from home to office and store.



# INVERTER

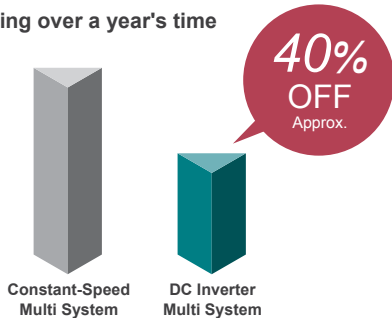
## 2 & 3-4 Rooms Multi Lineup

2 ROOMS	2 ROOMS	3 ROOMS	4 ROOMS
			
CLASS <b>A</b> ALL DC	CLASS <b>A</b>	CLASS <b>A</b> ALL DC	CLASS <b>A</b>
AOYA14LAC2 AOYA18LAC2 <b>NEW</b>	AOY24LMAM2	AOYA18LAT3 AOYA24LAT3	AOY30LMAW4

### Energy saving

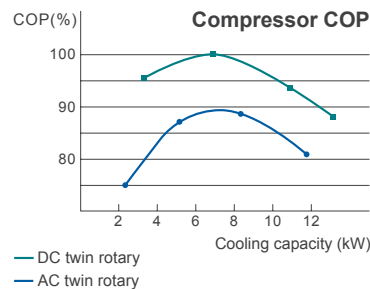
High Efficiency DC Inverter Multi system permits energy saving operation and 40% higher efficiency than a Constant-Speed Multi system. Improved Inverter cooling ratio prevents decrease in capacity under overload operation.

#### Energy saving over a year's time



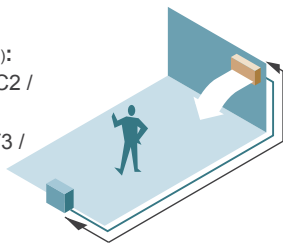
### DC twin rotary compressor (18~30)

Efficiency is improved over a wide range from high-speed rotation at high load up to the low-speed rotation region at low-load where long-term use is especially frequent, and high power is produced with little power consumption. Also, twin rotor provides low-vibration and quiet operation.

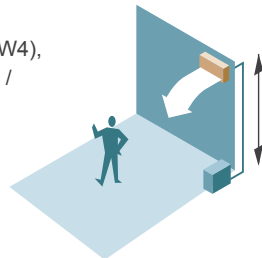


### Flexible installation

**Max.Piping Length** (Each Unit):  
 20m (AOYA14LAC2 / 18LAC2 / AOY24LMAM2),  
 25m (AOYA18LAT3 / 24LAT3 / AOY30LMAW4)

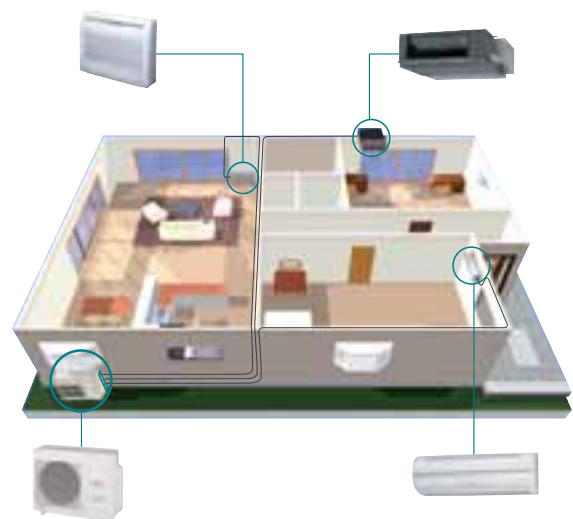


**Max.Height:**  
 10m (AOY24LMAM2 / 30LMAW4),  
 15m (AOYA14LAC2 / 18LAC2 / AOYA18LAT3 / 24LAT3)



**Total Piping Length:**  
 30m (AOYA14LAC2 / 18LAC2 / AOY24LMAM2),  
 50m (AOYA18LAT3 / 24LAT3),  
 70m (AOY30LMAW4)

### Select any type of air conditioners you like to suit the atmosphere of your room



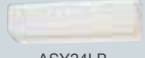



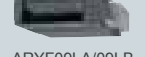



### Indoor unit features

	Up/Down	Double	Adjust	Restart	Auto Changeover	HEAT	Fresh	Fresh	Economy	Sleep	Program	W-S	Filter	Ion	AF	Coil Dry	Wash
ASYA07/09/12/14LB	●	●	●	●	●	●				●	●	●	○	●	●	●	●
ASYA07/09/12/14/18LA	●		●	●	●	●				●	●	●	○	●	●	●	●
ASY24LB		●	●	●	●	●				●	●	●	○	●	●	●	●
AGYF09/12/14LA	●		●	●	●	●				●	●	●	○	●	●	●	●
AUYF09LA/12LA/14LA/18LB	●		●	●	●	●	○	○		●	●	●	○	●	●	●	●
ABYF14/18/24LB		●	●	●	●	●	●	○		●	●	●	○	●	●	●	●
ARYF09LA/09LB/12LA/12LB/14LA/18LB/22LA			●	●	●	●		○	●	○		●					

○ : Optional function

### Connectable Indoor unit lineup

Indoor unit	kW	Outdoor Unit					
		AOYA14LAC2	AOYA18LAC2	AOY24LMAM2	AOYA18LAT3	AOYA24LAT3	AOY30LMAW4
 ASYA07/09/12/14LB	2.1	●	●				
	2.5	●	●				
	3.5	●	●				
	4.2		●				
 ASYA07/09/12/14/18LA	2.3			●	●	●	●
	2.7			●	●	●	●
	3.5			●	●	●	●
	4.2			●	●	●	●
	5.0			●		●	●
 ASY24LB	6.8						●
 AGYF09/12/14LA	2.7		●	●	●	●	●
	3.5		●	●	●	●	●
	4.2			●	●	●	●
 AUYF09LA/12LA/14LA/18LB	2.7		●	●	●	●	●
	3.5		●	●	●	●	●
	4.2			●	●	●	●
	5.2			●		●	●
 ABYF14LB/18LB/24LB	4.2			●	●	●	●
	5.2			●		●	●
	6.8						●
 ARYF09LA/09LB	2.7		● (ARYF09LB)	● (ARYF09LA)	● (ARYF09LA)	● (ARYF09LA)	● (ARYF09LA)
 ARYF12LA/12LB/14LA/18LB/22LA	3.5		● (ARYF12LB)	● (ARYF12LA)	● (ARYF12LA)	● (ARYF12LA)	● (ARYF12LA)
	4.2			●	●	●	●
	5.2			●		●	●
	6.3						●

# 2 & 3-4 Rooms Multi

## Specifications

### SPECIFICATIONS (WALL MOUNTED TYPE)

Model No.	Indoor unit		ASYA07LA	ASYA09LA	ASYA12LA	ASYA14LA	ASYA18LA	ASYA24LB	
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Noise	Cooling	H/M/L/Q	dB(A)	35/32/27/21	38/33/28/22	39/34/28/23	45/38/33/26	45/38/34/28	47/41/36/32
Air Flow (High)			500	550	580	700	660	1020	
Net Dimension H x W x D	mm		275x790x215	275x790x215	275x790x215	275x790x215	275x790x215	320x1120x220	
Weight	kg(lbs)		9(20)	9(20)	9(20)	9(20)	9(20)	16(35)	

### SPECIFICATIONS (WALL MOUNTED TYPE)

Model No.	Indoor unit		ASYA07LB	ASYA09LB	ASYA12LB	ASYA14LB	
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	
Noise	Cooling	H/M/L/Q	dB(A)	38/36/33/21	38/36/33/21	43/38/33/21	44/40/33/25
Air Flow (High)			620	620	750	800	
Net Dimension H x W x D	mm		260x790x198	260x790x198	260x790x198	260x790x198	
Weight	kg(lbs)		7.5(17)	7.5(17)	7.5(17)	7.5(17)	

### SPECIFICATIONS (FLOOR TYPE, FLOOR/CEILING UNIVERSAL TYPE)

Model No.	Indoor unit		AGYF09LA	AGYF12LA	AGYF14LA	ABYF14LB	ABYF18LB	ABYF24LB	
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Noise	Cooling	H/M/L/Q	dB(A)	39/34/28/22	42/36/30/22	44/38/31/22	36/34/33/29(Under ceiling) 39/37/36/32(Floor console)	41/38/34/32(Under ceiling) 44/41/37/35(Floor console)	45/40/36/33(Under ceiling) 48/43/39/36(Floor console)
Air Flow (High)			530	600	650	640	780	880	
Net Dimension H x W x D	mm		600x740x200	600x740x200	600x740x200	199x990x655	199x990x655	199x990x655	
Weight	kg(lbs)		14(30.7)	14(30.7)	14(30.7)	27(60)	27(60)	27(60)	

### SPECIFICATIONS (COMPACT CASSETTE TYPE)

Model No.	Indoor unit		AUYF09LA	AUYF12LA	AUYF14LA	AUYF18LB	
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	
Noise	Cooling	H/M/L/Q	dB(A)	33/31/29/26	37/33/31/27	40/35/32/27	42/37/33/27
Air Flow (High)			540	610	680	750	
Net Dimension H x W x D	mm		245x570x570	245x570x570	245x570x570	245x570x570	
Weight	kg(lbs)		15(33.1)	15(33.1)	15(33.1)	15(33.1)	
Panel	UTG-UFYB-W						

### SPECIFICATIONS (COMPACT DUCT TYPE)

Model No.	Indoor unit		ARYF09LA/LB	ARYF12LA/LB	ARYF14LA	ARYF18LB	ARYF22LA	
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Noise	Cooling	H/M/L/Q	dB(A)	35/33/31/30	30/29/26/25	33/30/27/24	34/32/30/29	40/36/33/30
Air Flow (High)			480	630	820	850	1060	
Net Dimension H x W x D	mm		217x663x595	217x953x595	217x953x595	217x953x595	217x953x595	
Weight	kg(lbs)		18(40)	23(51)	23(51)	23(51)	23(51)	

### SPECIFICATIONS (2 ROOMS, 3 ROOMS, 4 ROOMS)

Model No.	Outdoor unit		AOYA14LAC2	AOYA18LAC2	AOY24LMAM2	AOYA18LAT3	AOYA24LAT3	AOY30LMAW4	
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
Noise	Cooling	dB(A)	47	50	49	46	48	50	
Net Dimension H x W x D	mm		540x790x298	540x790x298	650x830x320	700x900x330	700x900x330	830x900x330	
Weight	kg(lbs)		37(82)	38(84)	56(123)	55(121)	55(121)	68(150)	
Connection pipe	Piping Connections	Small (Liquid)	mm	∅6.35x2	∅6.35x2	∅6.35x2	∅6.35x3	∅6.35x3	∅6.35x4 *(∅6.35x3, ∅9.52)
		Large (Gas)	mm	∅9.52x2	∅9.52x2 *(∅9.52, ∅12.7)	∅9.52, ∅12.7 *(∅9.52, ∅9.52)	∅9.52x2, ∅12.7 *(∅9.52x3)	∅9.52x2, ∅12.7 *(∅9.52x3)	∅9.52x2, ∅12.7x2 *(∅9.52x3, ∅12.7) *(∅9.52x2, ∅12.7, ∅15.88)
	Max. length	Total / Each	m	30 / 20	30 / 20	30 / 20	50 / 25	50 / 25	70 / 25
	Max. Height Difference	Between Outdoor Unit and Each Indoor Units. Between Indoor Units.	m	15	15	10	15	15	15
Operation Range	Cooling Heating	°CDB	10~46 -15~24	10~46 -15~24	0~46 -10~24	-10~46 -15~24	-10~46 -15~24	0~46 -10~24	
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	

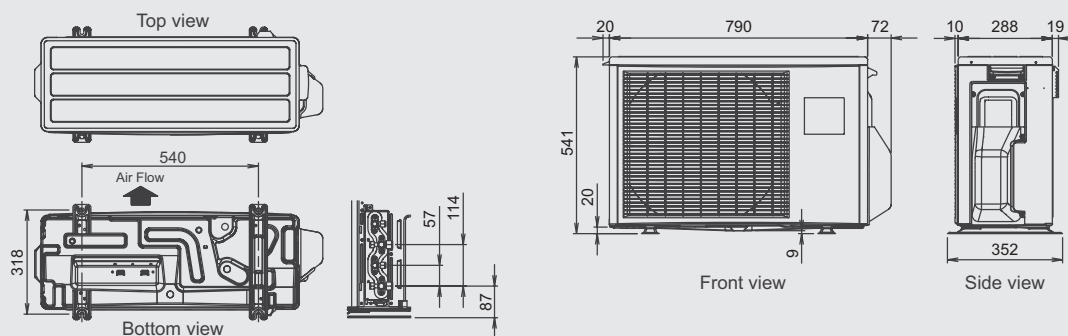
\* Connect to connection valve by the adapter.



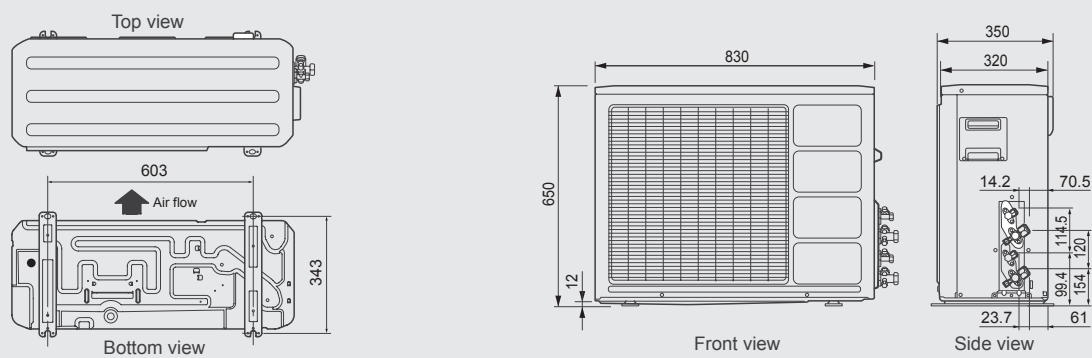
## Dimensions

### 2 ROOMS

Model: AOYA14LAC2 / AOYA18LAC2

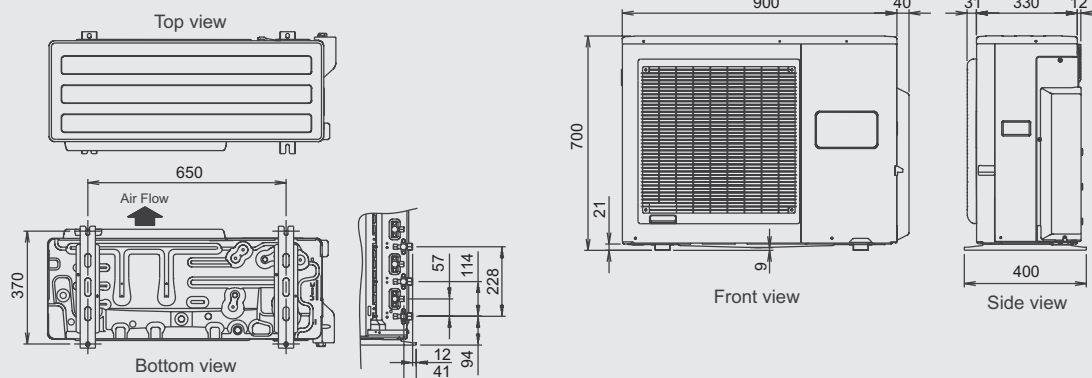


Models: AOY24LMAM2



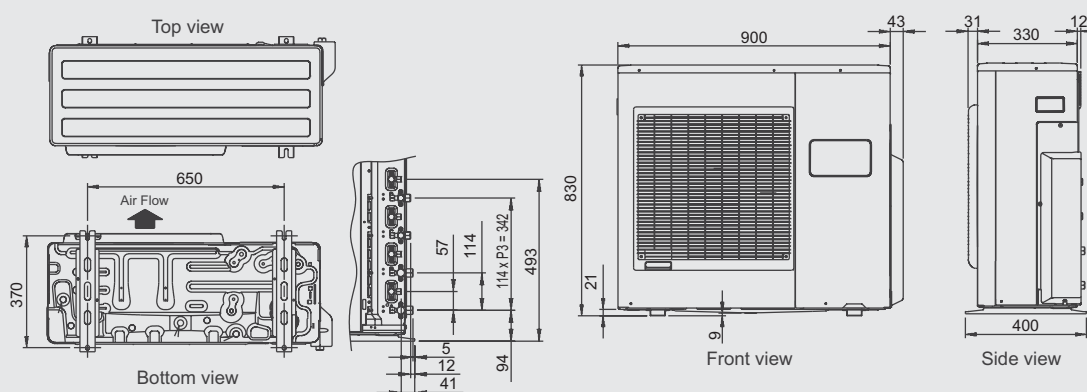
### 3 ROOMS

Models: AOYA18LAT3 / AOYA24LAT3



### 4 ROOMS

Models: AOY30LMAW4











# INVERTER

## 8 Rooms Multi (Future Release)

- Suitable for large homes, shops, small buildings, and a variety of other multi installations
- Up to 8 indoor units can be connected
- Excellent installability, lightweight, compact yet high efficiency operation outdoor unit

ALL  
DC

AOYA45LAT8 **NEW**



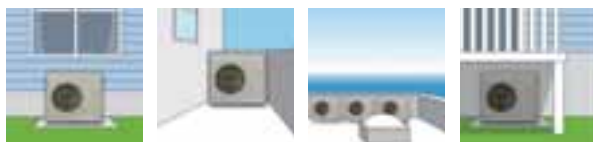
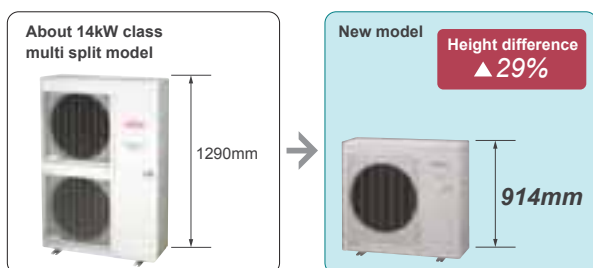
## High Efficiency & Compact

### High efficiency

Adopting a large heat exchanger, high efficiency ventilation fan, DC twin rotary compressor, etc. realizes high efficiency operation by all DC inverter control.

### Top class compact design

Compact and lightweight outdoor unit is easy to carry in. It can be installed in various obscure places.



### Innovated technology

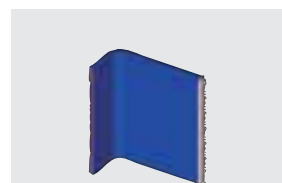
**High efficiency large fan:**  
New high efficiency fan is mounted.



**DC Fan motor:**  
High performance and high efficiency has been realized by using a small DC fan motor.



**High efficiency DC twin rotary Compressor:**  
A high performance, low noise, large capacity DC twin rotary compressor is used.



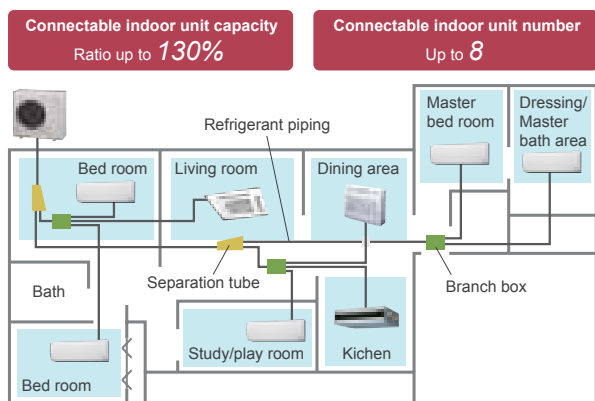
**Heat exchanger:**  
Reduced compact size and energy saving has been realized by utilizing high density piping design and 3-Row heat exchanger.



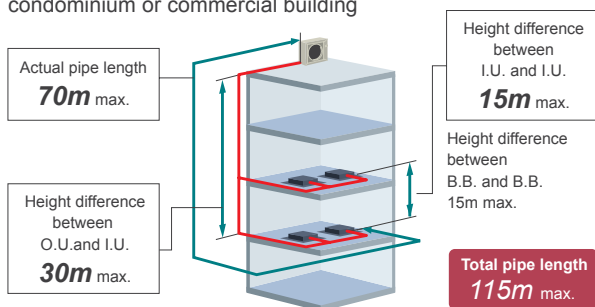
# Flexible Design & Easy Installation

## Long Piping Design

Up to 8 indoor units can be connected to one outdoor unit.  
A maximum of 130% indoor unit connectable capacity.  
Match any room layout

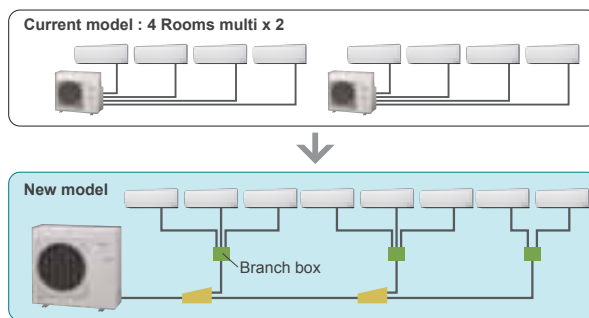


Can be installed in high rise condominium or commercial building



## Flexible piping connection

- Corresponding to diverse installation environments by use of branch connection system
- All connections are flare connections so that work time can be shortened substantially



## Branch Box

Branch box has an electronic expansion valve build-in, so it can control the refrigerant flow to each indoor unit. Can be connected by brazing connection and both ceiling suspension and wall mounting installation are available.

3 zones type



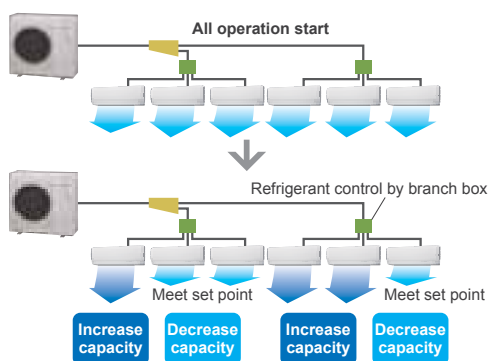
2 zones type



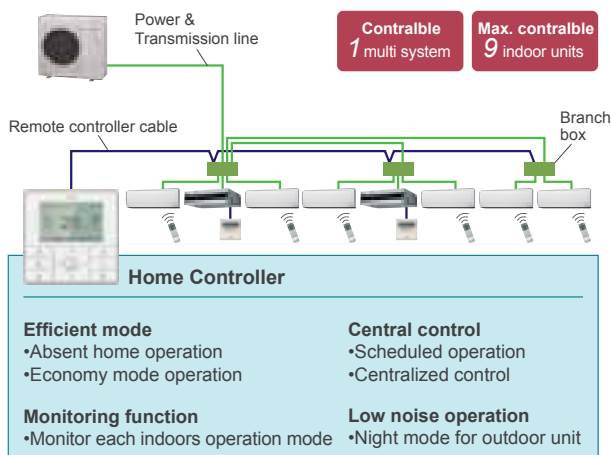
# More Comfort & Convenient

## Quick comfort by optimized refrigerant control

Every room meet set point most quickly and comfortably by optimized refrigerant control.



















## Home controller allows individual and central control



Note: Home controller is not available for Single split and VRF system.

# 8 Rooms Multi (Future Release)

## Connectable Indoor unit lineup

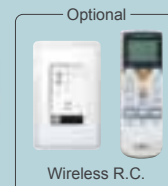
Indoor unit	7,000BTU 2.1kW	9,000BTU 2.5kW	12,000BTU 3.5kW	18,000BTU 5.0kW	24,000BTU 7.1kW	Controller
<b>Compact Wall Mounted</b>	 ASYG07LAC	 ASYG09LAC	 ASYG12LAC			 Wireless Remote control
<b>Wall Mounted</b>				 ASYG18LAC	 ASYG24LAC	
<b>Compact Cassette</b>		 AUYG09LAL	 AUYG12LAL	 AUYG18LAL		
<b>Floor</b>		 AYG09LAC	 AYG12LAC			 Wired Remote control
<b>Slim Duct <span style="color: red;">NEW</span></b>		 ARYG09LATU	 ARYG12LATU	 ARYG18LATU	 ARYG24LATU	

## Slim Duct NEW

- Slim design with drain pump
- Increase static pressure range
- Dual concealed type



Wired R.C.



Wireless R.C.

ARYG09LATU NEW

ARYG12LATU NEW

ARYG18LATU NEW

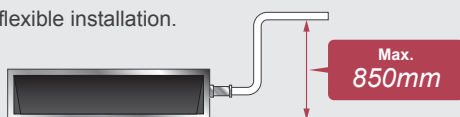
ARYG24LATU NEW

### Slim design



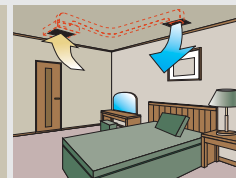
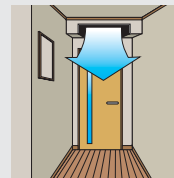
### Drain pump is standard accessory

It allows flexible installation.

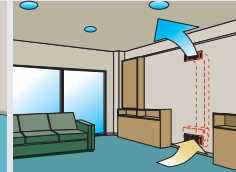
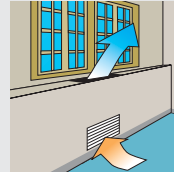


### Flexible installation

**Ceiling concealed**



**Floor concealed**



### High static pressure range

Powerful model with a flexible design

ARYG09/12/18LATU

**0 to 90 Pa**

(ARYG24LATU : 0 to 50Pa)

### Optional parts

Remote Sensor Unit: UTD-RS100

IR Receiver Unit: UTY-LRHYM

## Specifications

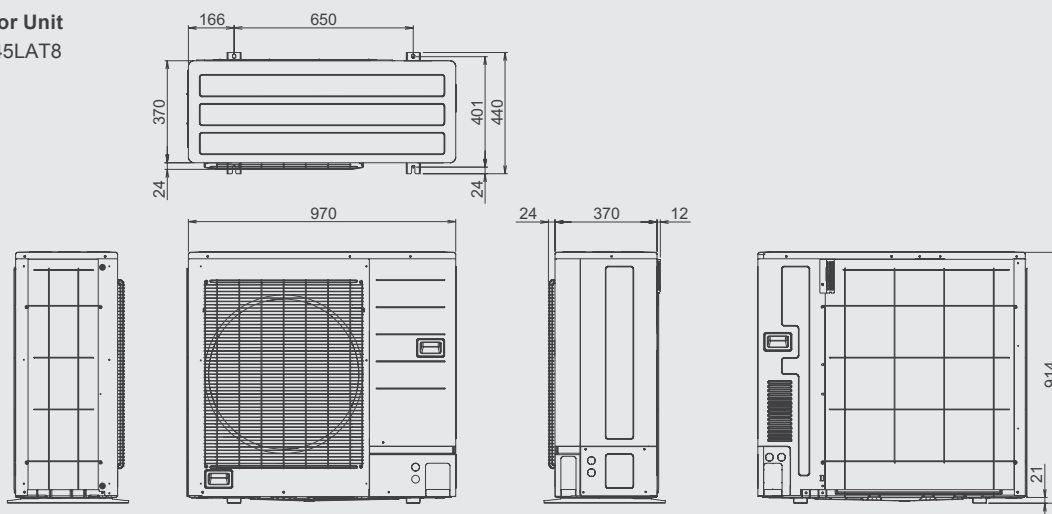
Model name			AOYA45LAT8
Maximum Connectable Indoor Unit			8
Indoor unit connectable capacity	Cooling	kW	11.2 to 18.2
Power source			V/∅/Hz
			230/1/50
Capacity	Cooling	kW	14.0
	Heating	kW	16.0
Input power	Cooling	kW	*
	Heating	kW	*
EER	Cooling	W/W	*
COP	Heating	W/W	*
Air flow rate	High	m <sup>3</sup> /h	*
Sound pressure level	Cooling	dB(A)	*
Heat exchanger fin			Plate fin coil
Net Dimensions H x W x D		mm	914 x 970 x 370
Weight		kg(lbs)	98 (217)
Piping Connections (Small / Large)		mm	9.52/15.88
Max Pipe Length		m	115 (Total)
Max Height Difference (O.U ~ I.U)		m	30
Operation range	Cooling	°CDB	-5 to 46
	Heating	°CDB	-15 to 24
Refrigerant			R410A

\* Data were not available at time of production.

## Dimensions

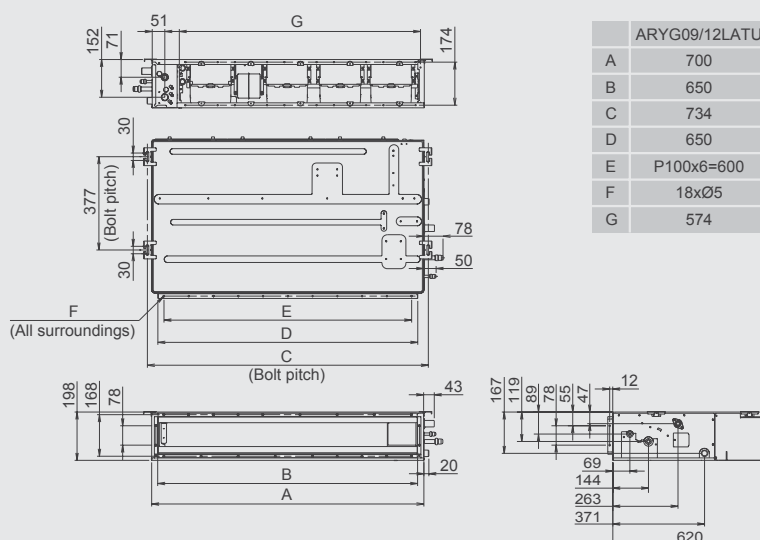
(Unit : mm)

### Outdoor Unit AOYA45LAT8



### Slim Duct

ARYG09LATU  
ARYG12LATU  
ARYG18LATU  
ARYG24LATU



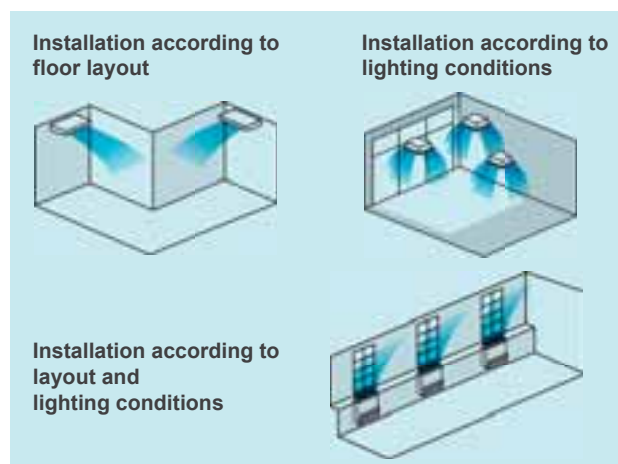
	ARYG09/12LATU	ARYG18LATU	ARYG24LATU
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100x6=600	P100x8=800	P100x10=1000
F	18x∅5	22x∅5	26x∅5
G	574	774	974

# Simultaneous Multi Twin / Triple



Can support various installation scenes from office to commercial space by same place multi connection of up to 3units.

Indoor units distributed layout according to the shape and number of people and lighting conditions of the room even on wide floors and atypical floors. Ideal comfortable air flow distribution can be realized.



## Specifications

Model No.		Indoor unit		Compact Cassette		
				AUYF18LB	AUYF22LB	AUYF24LB
Power Source		V/∅/Hz		230/1/50	230/1/50	230/1/50
Air Flow (High)	Cooling   H/M/L/Q	m³/h		680/580/490/410	1030/830/600/450	1030/830/600/450
Net Dimension H x W x D		mm		245x570x570	245x570x570	245x570x570
Weight		kg(lbs)		15 (33)	17 (36)	17 (36)
Grille				UTG-UFYB-W	UTG-UFYB-W	UTG-UFYB-W

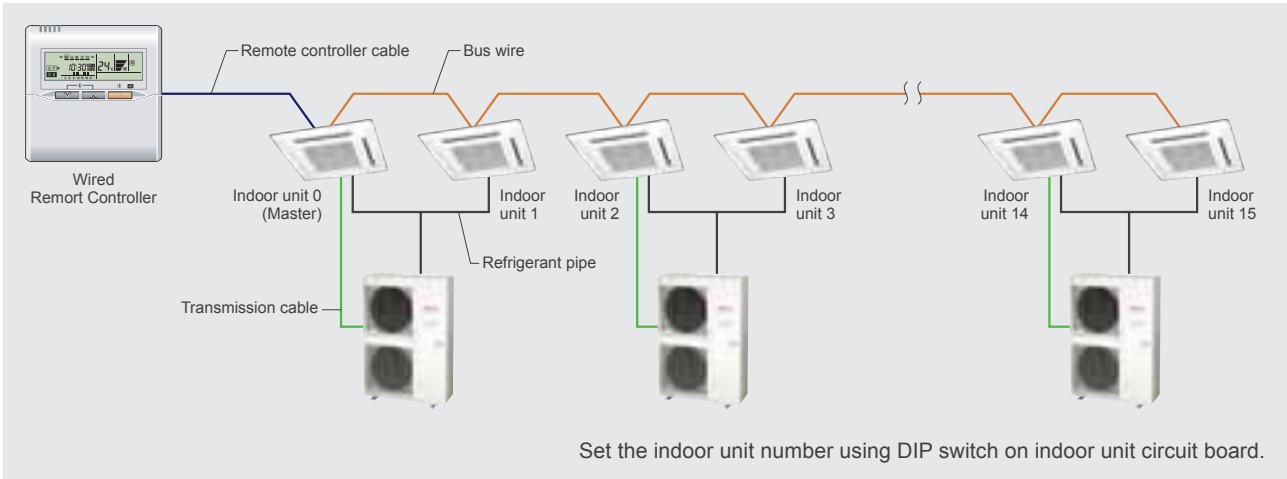
Model No.		Indoor unit		Duct			Floor/Ceiling Universal		
				ARYF18LBLU	ARYF22LBTU	ARYF24LBTU	ABYF18LB	ABYF22LBT	ABYF24LBT
Power Source		V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Air Flow (High)	Cooling   H/M/L/Q	m³/h		830/670/580/480	1100/910/750/580	780/700/560/500	980/820/680/540	980/820/680/540	980/820/680/540
Net Dimension H x W x D		mm		217 x 953 x 595	270 x 1135 x 700	199 x 990 x 655	199 x 990 x 655	199 x 990 x 655	199 x 990 x 655
Weight		kg(lbs)		23 (51)	38 (84)	27 (60)	27 (60)	27 (60)	27 (60)

Model No.		Outdoor unit		AOYD36LATT	AOYD45LATT	AOYD54LATT
Power Source		V/∅/Hz		400/3/50	400/3/50	400/3/50
Net Dimension H x W x D		mm		1290x900x330	1290x900x330	1290x900x330
Weight		kg(lbs)		107(236)	107(236)	107(236)
Piping Connections (Small / Large)		mm		9.52/15.88	9.52/15.88	9.52/15.88
Max Pipe Length (Chargeless)		mm		75	75	75
Height Difference		mm		30	30	30
Operation Range	Cooling	°CDB		-15~46	-15~46	-15~46
	Heating	°CDB		-15~24	-15~24	-15~24
Refrigerant				R410A	R410A	R410A
Separation tube				UTP-SX236A(Twin)	UTP-SX254A(Twin)	UTP-SX254A(Twin)/UTP-SX354A(Triple)

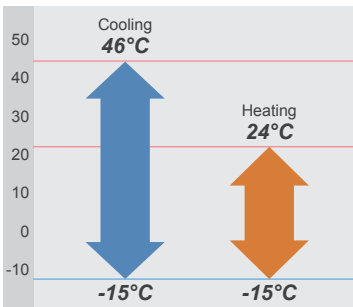
\*Different type and capacity indoor units can not be connected.

### Simultaneous control

Max 16 indoor units are simultaneously controlled with a wired remote controller.



### Low ambient operation

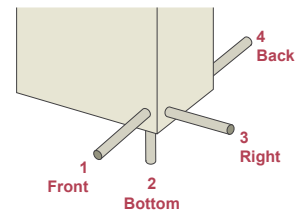


### External input

**Low noise mode:** Suppresses night time operating sound.  
**Peak cut function:** Suppresses maximum capacity and performs energy saving operation and can prevent breaker tripping.

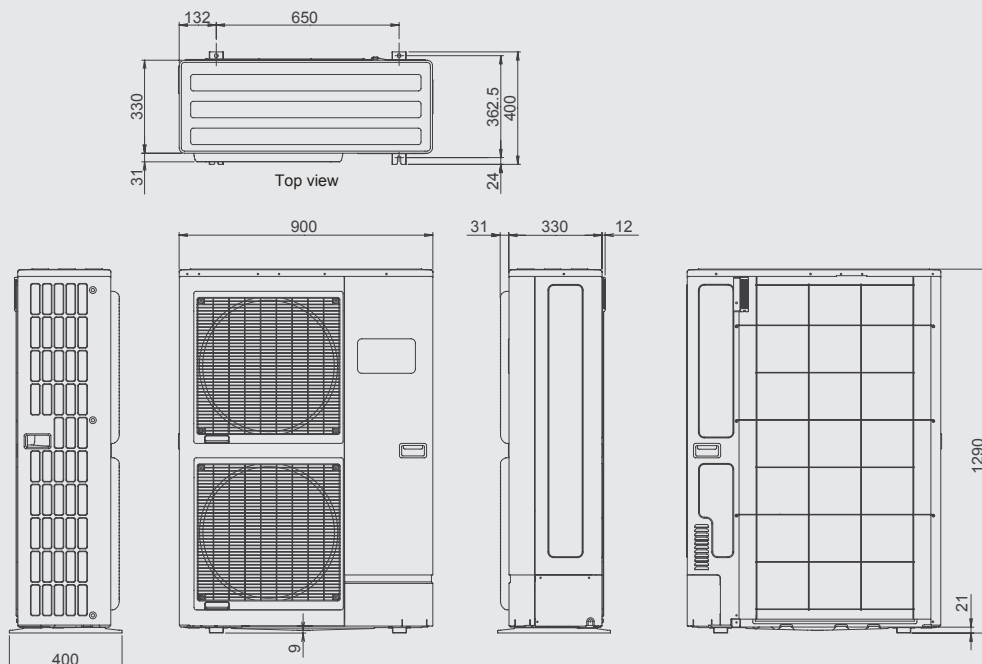
### Piping connection

Four directions piping connection is possible. The perfect route can be selected according to the installation.



### Dimensions Models: AOYD36LATT / AOYD45LATT / AOYD54LATT

(Unit : mm)

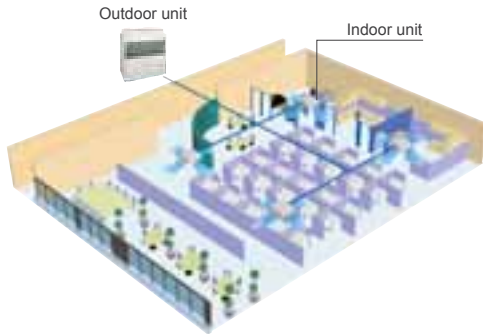


# Big Multi

## Simultaneous Operation

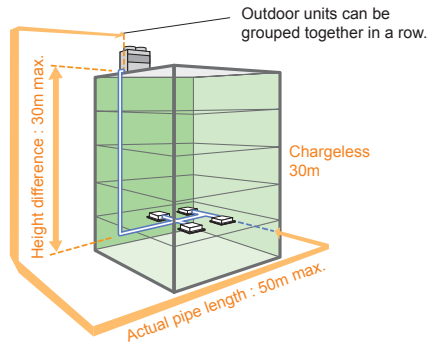
### Features of System Operations

- Simultaneous Operating System suitable for large spaces such as offices, lobbies and waiting rooms of high-rise buildings.
- One controller can simultaneously control cooling or heating by 2~4 indoor units.



### Indoor Unit Lineup

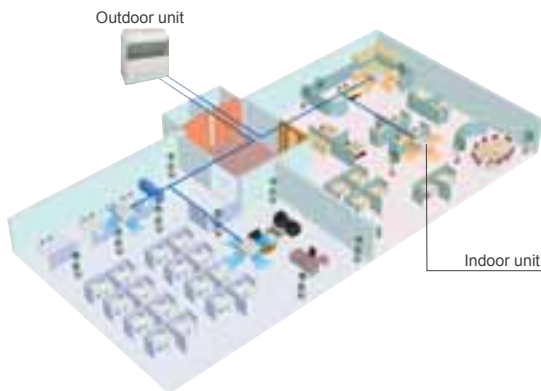
CAPACITY (BTU)	CASSETTE (COMPACT)	CASSETTE	DUCT	FLOOR/CEILING UNIVERSAL	CEILING (LARGE)
	45,000		•	•	
36,000		•	•		•
30,000		•	•		•
(25,000)		•	•		
24,000				•	
18,000	•			•	



## Individual Operation

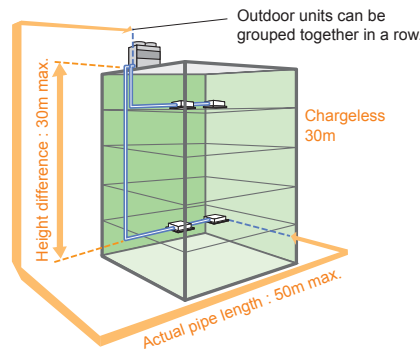
### Features of System Operations

- Individual Operating System is suitable for large spaces such as hotels, commercial spaces, offices and restaurants.
- The system can cool and heat individually, because it has two refrigeration cycles.



### Indoor Unit Lineup

CAPACITY (BTU)	CASSETTE (COMPACT)	CASSETTE	DUCT	FLOOR/CEILING UNIVERSAL	CEILING (LARGE)
	45,000		•	•	
36,000		•	•		•
30,000		•	•		
(25,000)				•	
24,000				•	
18,000	•			•	

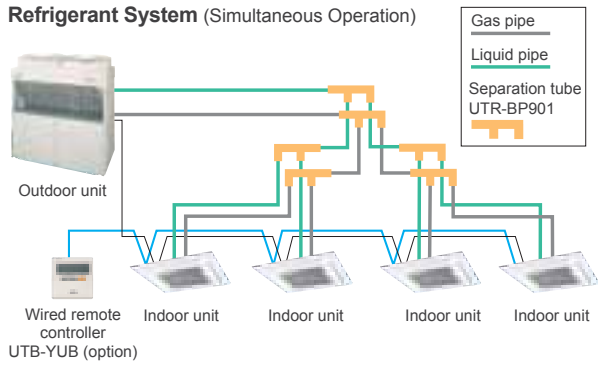


## Specifications

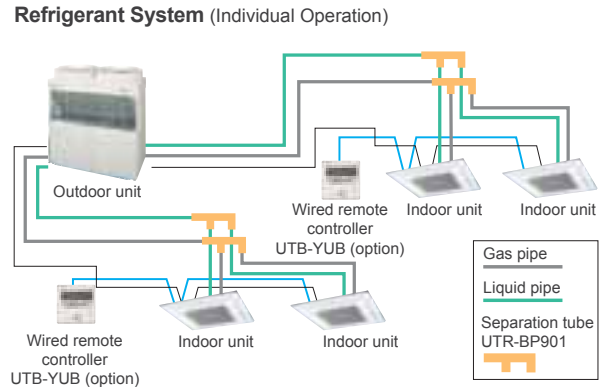
Model name		ABYA18TATA	ABYA24TATA	ABYA30TATA	ABYA36TATA	ABYA45TATA	ARXA25TATA	ARXA30TATA	ARXA36TATA	ARXA45TATA	
Power Source		V/ø/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
Capacity	Cooling	kW	5.20~5.30	6.50~6.60	8.60~8.80	10.30~10.50	12.40~12.70	6.95~7.05	8.60~8.80	10.30~10.50	
			Heating	5.50~5.60	7.60~7.70	8.80~9.10	10.50~10.70	13.40~13.70	7.60~7.85	8.80~9.10	10.50~10.70
	Cooling	BTU/h	17,800~18,100	22,200~22,500	29,400~30,000	35,200~36,000	42,500~43,500	23,700~24,100	29,400~30,000	35,200~36,000	42,500~43,500
			Heating	18,800~19,100	25,900~26,300	30,000~31,000	36,000~36,500	46,000~47,000	25,900~26,800	30,000~31,000	36,000~36,500
Moisture Removal		l/h	2.20	3.40	4.00	4.00	5.50	2.50	3.00	4.00	
Airflow Rate	High	m <sup>3</sup> /h	800	900	1,270	1,660	1,850	1,600	1,650	2,000	
			Med	680	780	1,120	1,500	1,660	1,450	1,550	1,800
			Low	560	660	860	1,270	1,430	1,280	1,350	1,600
Fan Motor Output		W	30	40	160	160	160	70	275	275	
Fan Type x Q'ty			Sirocco x 2	Sirocco x 2	Sirocco x 4	Sirocco x 4	Sirocco x 4	Sirocco x 2	Sirocco x 2	Sirocco x 2	
Net Dimension H x W x D		mm	199x990x655	199x990x655	240x1,660x700	240x1,660x700	240x1,660x700	270x1,210x700	270x1,210x700	270x1,210x700	
Weight		kg	28	30	48	48	48	43	43	45	
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	
Connection Pipe Size (Small/Large)		mm	9.53/15.88	9.53/15.88	9.53/15.88	9.53/19.05	9.53/19.05	9.53/15.88	9.53/15.88	9.53/19.05	
Operation Range	Cooling	°C	18~30	18~30	18~30	18~30	18~30	18~30	18~30	18~30	
	Heating	°C	16~30	16~30	16~30	16~30	16~30	16~30	16~30	16~30	
Grille			-	-	-	-	-	-	-	-	



**Refrigerant System (Simultaneous Operation)**



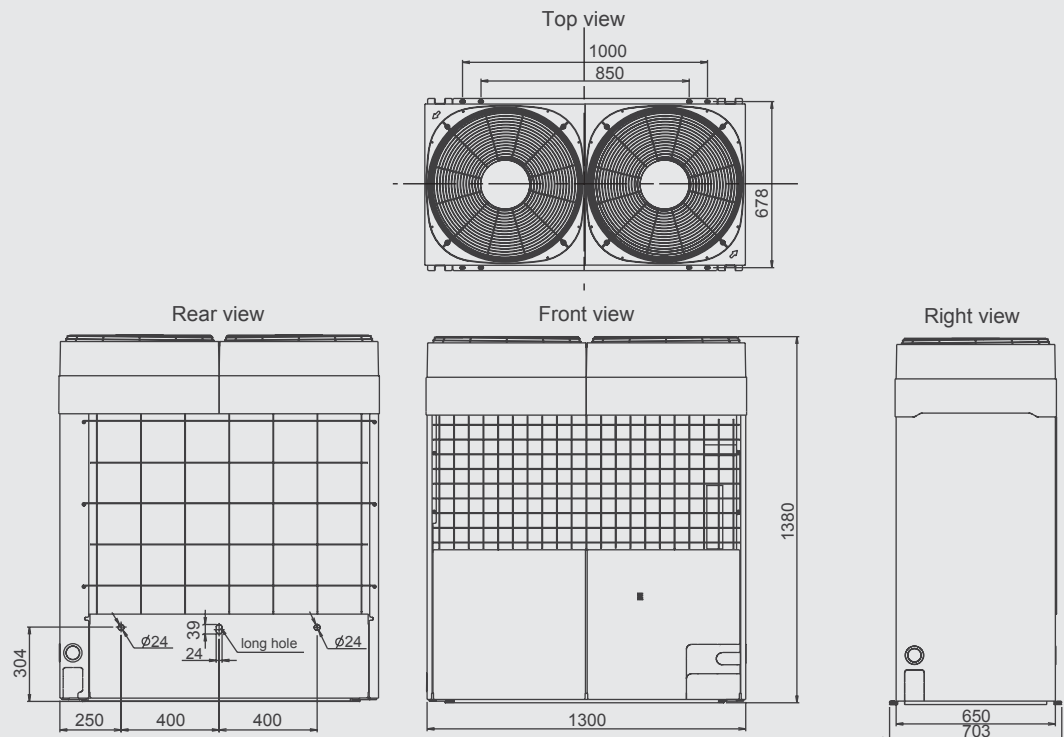
**Refrigerant System (Individual Operation)**



**Dimensions**

Models: AJYA90EATA / AJYA90TATA / AJYA90EATB / AJYA90TATB

(Unit : mm)



AUXA18TATA	AUYA25TATA	AUYA30TATA	AUYA36TATA	AUYA45TATA
220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
4.85~5.00	6.95~7.05	8.60~8.80	10.30~10.50	12.40~12.70
5.30~5.45	7.60~7.85	8.80~9.10	10.50~10.70	13.40~13.70
19,000~19,900	23,700~24,100	29,400~30,000	35,200~36,000	42,300~43,400
21,000~21,600	25,900~26,800	30,000~31,100	35,800~36,500	45,800~46,800
2.10	2.50	3.00	4.00	5.00
650	1,170	1,270	1,500	1,650
550	970	1,070	1,300	1,450
490	770	880	1,100	1,200
14	90	90	90	90
Turbo x 1	Turbo x 1	Turbo x 1	Turbo x 1	Turbo x 1
235x580x580(+70)	296x830x830	296x830x830	296x830x830	296x830x830
18	38	38	40	40
Flare	Flare	Flare	Flare	Flare
9.53/15.88	9.53/15.88	9.53/15.88	9.53/19.05	9.53/19.05
18~30	18~30	18~30	18~30	18~30
16~30	16~30	16~30	16~30	16~30
UTG-JUDYD-W	-	-	-	-

Model name				Individual Operation		Simultaneous Operation	
				AJYA90EATA	AJYA90TATA	AJYA90EATB	AJYA90TATB
Power Source		V/ø/Hz	380-415/W4/50	380-415/W4/50	380-415/W4/50	380-415/W4/50	
Total Capacity	Cooling	kW	25.40	25.40	25.40	25.40	
	Heating	kW	-	28.60	-	28.60	
Total Input Watts	Cooling	kW	9.40	9.40	9.40	9.40	
	Heating	kW	-	10.00	-	10.00	
Total Ampacity	Cooling	A	16.20	16.20	16.20	16.20	
	Heating	A	-	17.00	-	17.00	
Starting Current		A	63.00	63.00	63.00	63.00	
EER	Cooling	W/W	2.70	2.70	2.70	2.70	
	Heating	W/W	-	2.86	-	2.86	
COP	High	r.p.m	730	730	730	730	
	Low	r.p.m	360	360	360	360	
Airflow Rate	High	m³/h	9,800	9,800	9,800	9,800	
	Fan Type x Qty		Propeller x 2	Propeller x 2	Propeller x 2	Propeller x 2	
Fan Motor Output		W	150x2	150x2	150x2	150x2	
Net Dimension H x W x D		mm	1,380x1,300x650	1,380x1,300x650	1,380x1,300x650	1,380x1,300x650	
Weight		kg	243	245	243	245	
Noise Level(Sound Pressure)		db(A)	57	57	57	57	
Condition	Indoor Air Temp.	Cooling	DB/WB	27/19	27/19	27/19	27/19
		Heating	(°C)	20/(15)	20/(15)	20/(15)	20/(15)
	Outdoor Air Temp.	Cooling	DB/WB	35/24	35/24	35/24	35/24
		Heating	(°C)	7/6	7/6	7/6	7/6
Refrigerant	Type		R407C	R407C	R407C	R407C	
	Charge	kg	3.1x2	3.1x2	6.00	6.00	
	Size Liquid/Gas	mm	9.53/19.05	9.53/19.05	12.70/28.58	12.70/28.58	
Pipe	Max Length		m	50	50	50	50
			m	30	30	30	30
	Max Chargeless Length		m	30	30	30	30
			m	30	30	30	30
Operation(Outdoor)	Cooling	°C	0~52	0~52	0~52	0~52	
	Heating	°C	-10~21	-10~21	-10~21	-10~21	

# VRF

AIRSTAGE™ creates a comfortable space with a wide range of series variations.

Comfort is required of spaces where people gather.

VRF is a large multi system that effectively air conditions a wide range of spaces from large buildings to personal residences.

This system makes a variety of spaces comfortable utilizing high environmental performance and powerful but pleasant operation.



**080** AIRSTAGE™ J Heat pump type



**088** AIRSTAGE™ S Heat recovery type

**098** AIRSTAGE™ V-II Heat pump type

**116** Control Systems



## High Efficiency & Reliability



The background of the entire page is a photograph of a modern conference room. A long, light-colored wooden conference table is surrounded by white chairs with chrome frames. A man in a light-colored shirt and dark trousers stands at the far end of the table, looking out a large window that offers a view of a city skyline. On the ceiling, a square, recessed ceiling-mounted air conditioning unit is visible. The room is brightly lit, suggesting a high-rise office environment.

Variable Refrigerant Flow system  
For Home & Buildings

**AIRSTAGE™**

Compact VRF System for use in apartments, homes, shops, offices and a broad range of other applications



Heat pump  
AJYA54LCLR

## Economy & Comfort

### Powerful operation with low electricity consumption

Excellent EER/COP are attainable as shown in the table below.

Cooling EER <b>3.20*</b>	Heating COP <b>3.40*</b>
-----------------------------	-----------------------------

\*"EER/COP" is the coefficient of performance (=capacity (kW) ÷ input power (kW)).  
\*EER/COP values are based on our own testing method.

Uses a high-performance DC inverter scroll compressor with variable capacity according to the load during cooling and heating.



### Low noise design

Newly designed larger fan and double casing bell mouth construction reduce noise emissions.

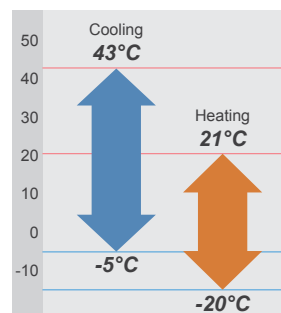
**Large fan**  
Low speed design suppresses noise by using a larger fan.



**Double casing bell mouth**  
Double casing bell mouth helps to reduce noise.

### Wide operating range

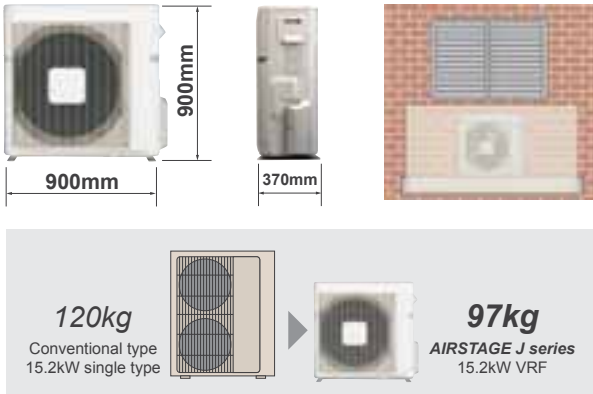
Outdoor unit operates over an ambient temperature range of -5°C to 43°C for cooling and -20°C to 21°C for heating.



# Design Versatility

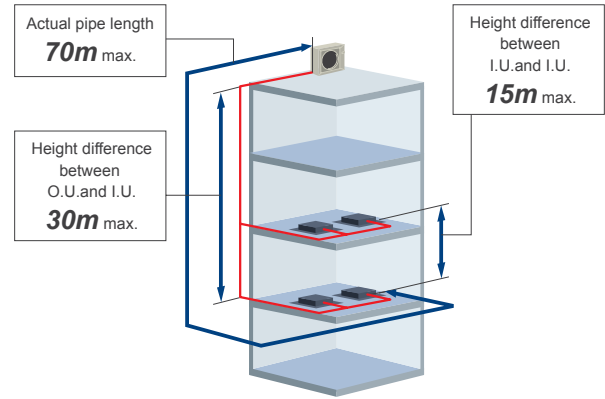
## Compact design

Small, compact casing can be easily concealed. The low overall height allows the unit to be neatly positioned beneath a window.



## Long piping length

The maximum piping length is 70m, and can cope with a wide range of applications from homes to offices.



## High capacity connection

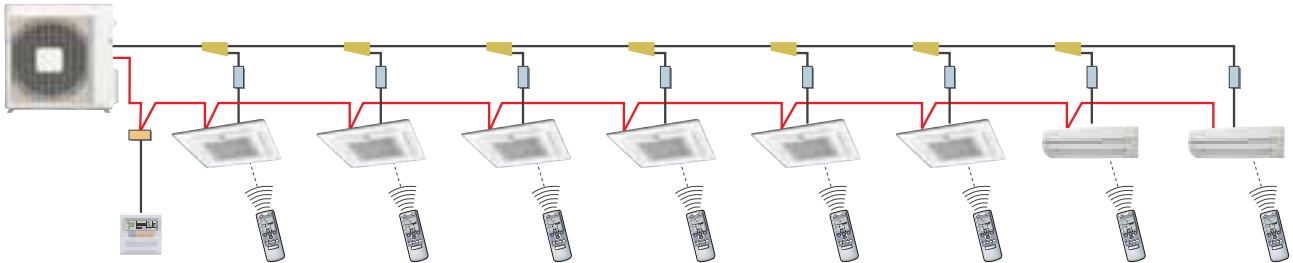
- Up to 8 indoor units can be connected to 1 outdoor unit. Furthermore, the indoor unit connection capacity can be up to 150% of the outdoor unit rating. This increases design flexibility.
- All indoor units are supplied with a Wireless Remote Controller.

Max. 8

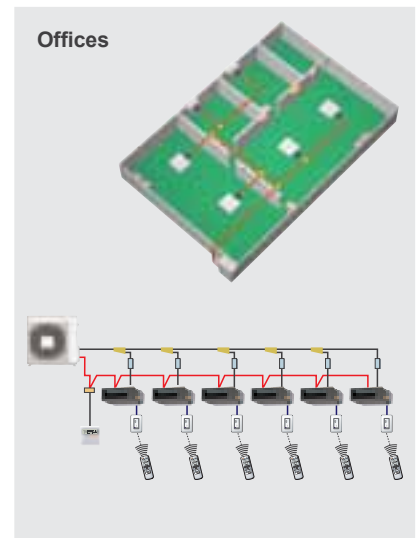
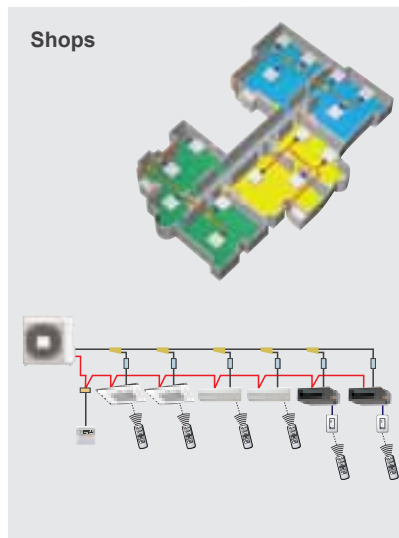
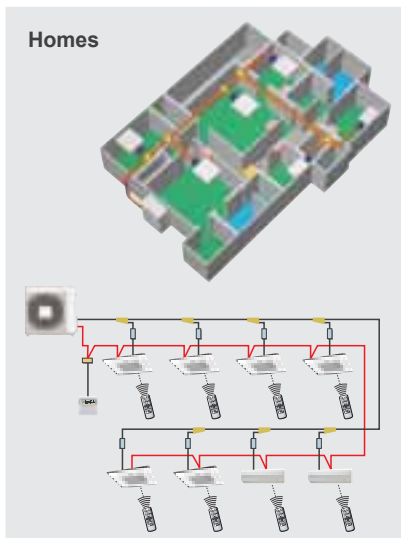
indoor units connectable

150%

Indoor unit connectable capacity



System that allows individual air conditioning of multiple rooms

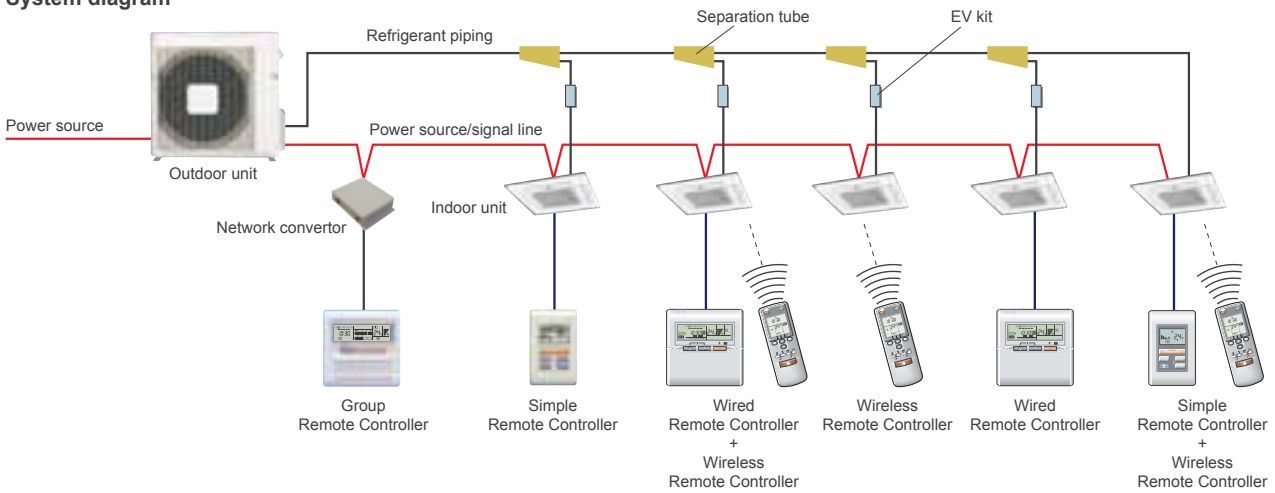


## Easy Installation

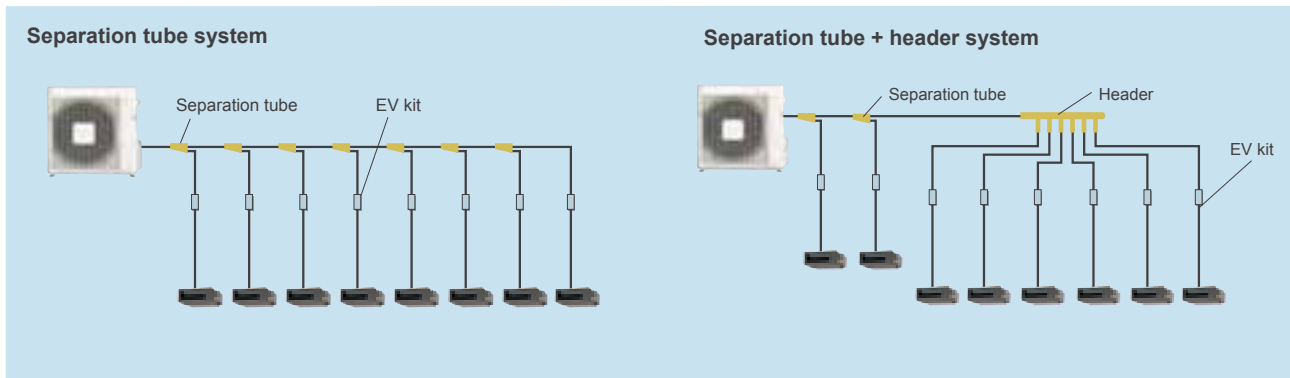
### Simple piping system

The wiring work is simple in the connection wiring system one by one. The dedicated communication line is unnecessary. The electrical work is simple because of single-phase power supply.

#### System diagram

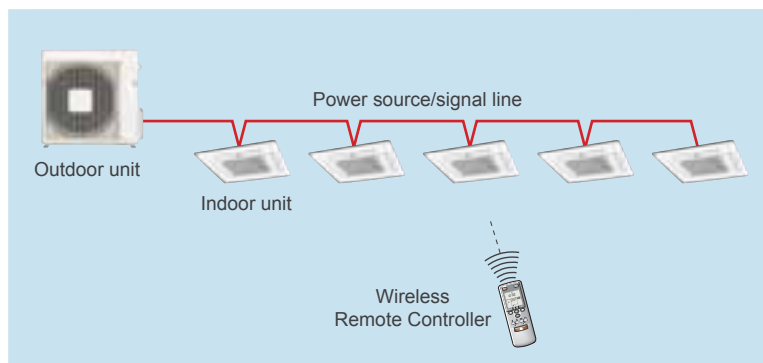


### Piping connection examples



### Easy system address setting

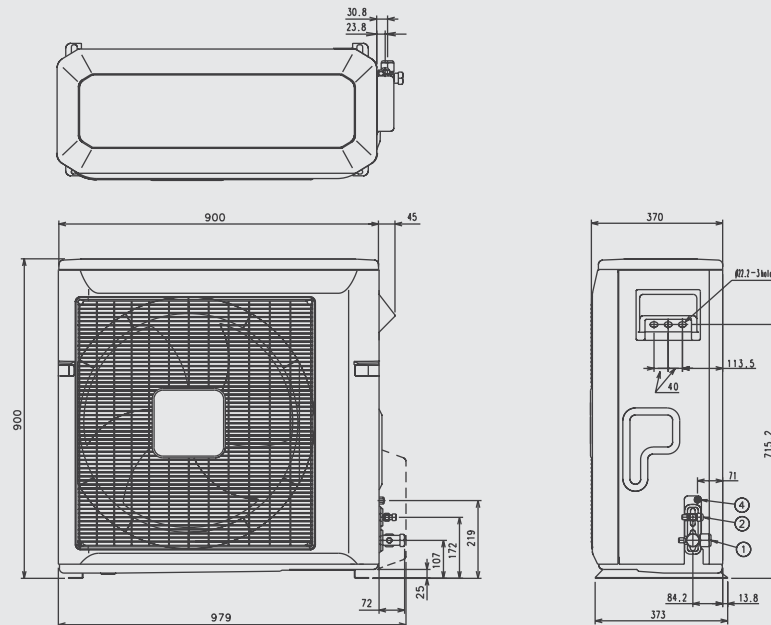
During installation work, system addressing can be performed using the wireless remote controller, thus eliminating manual switch setting.



## Outdoor units specifications

### Dimensions Model: AJYA54LCLR

(Unit : mm)



### Specifications

Rating Capacity range	HP	6
Model name	AJYA54LCLR	
Maximum Connectable Indoor Unit	8	
Indoor unit connectable capacity	Cooling kW	7.6 to 22.8
Power source	Single-phase, 220-240V, 50Hz	
Capacity	Cooling kW	15.2
	Heating kW	16.6
Input power	Cooling kW	4.75
	Heating kW	4.88
EER	Cooling W/W	3.2
COP	Heating W/W	3.4
Air flow rate	High m <sup>3</sup> /h	5,250
Sound pressure level	Normal operation mode dB	56
	Silent operation mode dB (A)	51
Compressor motor output	kW	3.0
Heat exchanger fin	Plate fin coil	
Dimensions	Height mm	900
	Width mm	900
	Depth mm	370
Weight	kg	97
Refrigerant charge	kg	3.0
Connection pipe diameter	Liquid mm	ø9.52
	Gas mm	ø19.05
Operation range	Cooling °C	-5 to 43
	Heating °C	-20 to 21

Note: Specifications are based on the following conditions.

















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

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













Voltage: 230 [V]



## Indoor units lineup

Capacity range (kW)	2.15	2.80	3.60	4.00	5.30	5.70	
Model code	7	9	12	14	18	20	
<b>Compact Cassette</b>	 AU7UFAAR	 AU9UFAAR	 AU12UFAAR	 AU14UFAAR	 AU18UFAAR		
<b><small>Slim Type</small> Cassette</b>						 AU20UFARR	
<b>Compact Duct</b>	 ARXA07LALR	 ARXA09LALR	 ARXA12LALR	 ARXA14LALR	 ARXA18LALR		
<b>Duct</b>							
<b>Compact Wall Mounted</b>	 AS7UFADR	 AS9UFADR	 AS12UFADR	 AS14UFADR			
<b>Wall Mounted</b>					 AS18UFAJR		

6 Types, 28 Models, Capacity range from 2.15kW to 14.1kW

	6.00	6.90	7.05	8.80	10.5	12.7	14.1
	22	24	25	30	36	45	54
			 <p>Slim Type AU25UFARR</p>	 <p>Slim Type AU30UFARR</p>	 <p>AU36UFASR</p>	 <p>AU45UFASR</p>	 <p>AU54UFASR</p>
 <p>ARXA22LBLR</p>							
			 <p>AR25UFAAR ARXB25LATR</p>	 <p>AR30UFAAR ARXB30LATR</p>	 <p>AR36UFAAR</p>	 <p>AR45UFAAR</p>	
		 <p>AS24UFAJR</p>		 <p>AS30UFAJR</p>			

## Indoor units specifications

### Compact Cassette



Model name			AU7UFAAR	AU9UFAAR	AU12UFAAR	AU14UFAAR	AU18UFAAR
Power source			220-240V, 50Hz				
Capacity	Cooling	kW	2.15	2.80	3.60	4.00	5.00
	Heating		2.45	3.10	4.10	4.50	5.45
Input power		W	28		52		50
Airflow rate	High	m <sup>3</sup> /h	530		580		640
	Med		480		520		540
	Low		410		460		470
Sound pressure level	High	dB(A)	38		41		44
	Med		35		37		38
	Low		31		34		35
Dimensions (H x W x D)		Net	mm				
Weight		Net	kg				
Connection pipe diameter		Liquid (Flare)	mm				
		Gas (Flare)	ø9.52		ø12.70		ø15.88
		Drain	ø32 (I.D.); ø37 (O.D.)				

Note: Specifications are based on the following conditions.

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

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

Voltage: 230[V]

### Cassette



Model name			AU20UFARR	AU25UFARR	AU30UFARR	AU36UFASR	AU45UFASR	AU54UFASR
Power source			220-240V, 50Hz					
Capacity	Cooling	kW	5.70	7.05	8.80	10.5	12.7	14.1
	Heating		5.80	7.85	9.10	10.7	13.7	15.8
Input power		W	117	129	142	175	190	219
Airflow rate	High	m <sup>3</sup> /h	1,030	1,170	1,270	1,500	1,650	1,780
	Med		850	970	1,070	1,300	1,450	1,550
	Low		680	770	880	1,100	1,200	1,300
Sound pressure level	High	dB(A)	42		45		52	
	Med		38		42		49	
	Low		37		39		43	
Dimensions (H x W x D)		Net	mm			mm		
Weight		Net	kg			kg		
Connection pipe diameter		Liquid (Flare)	mm			mm		
		Gas (Flare)	ø6.35		ø9.52			
		Drain	ø15.88		ø19.05			
			ø32 (I.D.); ø37 (O.D.)					

Note: Specifications are based on the following conditions.

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

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

Voltage: 230[V]

## Duct



Model name			ARXA07 LALR	ARXA09 LALR	ARXA12 LALR	ARXA14 LALR	ARXA18 LBLR	ARXA22 LBLR	ARXB25 LATR	ARXB30 LATR	AR25 UFAAR	AR30 UFAAR	AR36 UFAAR	AR45 UFAAR	
Power source			220-240V, 50Hz												
Capacity	Cooling	kW	2.15	2.80	3.50	4.00	5.30	6.00	7.05	8.80	7.05	8.80	10.5	12.7	
	Heating		2.45	3.10	4.10	4.80	5.60	6.30	7.85	9.10	7.85	9.10	10.7	13.7	
Input power			32		49		103	77	155		155		315		
Airflow rate	High	m <sup>3</sup> /h	420		620		950	890	1,340		1,200		2,200		
	Med		390		550		790	780	1,090		1,100		2,000		
	Low		360		470		620	670	970		1,000		1,800		
Static pressure range			0 to 40						0 to 80		30 to 160		30 to 180		
Sound pressure level	High	dB(A)	34		33		40	42	33		44		49		
	Med		32		29		35	38	29		42		47		
	Low		31		27		30	34	26		40		45		
Dimensions (H x W x D)			217 x 663 x 595		217 x 953 x 595				270 x 1,210 x 700						
Weight			18		25				43				45		
Connection pipe diameter	Liquid (Flare)	mm					ø6.35				ø9.52	ø6.35	ø9.52		
	Gas (Flare)		ø9.52		ø12.70				ø15.88				ø19.05		
	Drain		ø21.5 (I.D.); ø26 (O.D.)								ø35.7 (I.D.); ø38.1 (O.D.)				

Note: Specifications are based on the following conditions.

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

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

Standard static pressure: 0Pa (AR7 to AR22), 100Pa (AR25 to AR45).

Voltage: 230[V]

## Wall Mounted



Model name			AS7UFADR	AS9UFADR	AS12UFADR	AS14UFADR	AS18UFAJR	AS24UFAJR	AS30UFAJR	
Power source			220-240V, 50Hz							
Capacity	Cooling	kW	2.15	2.80	3.50	3.80	5.40	6.90	8.00	
	Heating		2.45	3.10	4.10	4.50	5.60	7.80	8.80	
Input power			26	33	40		38	50	60	
Airflow rate	High	m <sup>3</sup> /h	410		540		840	950	1,050	
	Med		370		510		700	800	940	
	Low		350		480		600	670	780	
Sound pressure level	High	dB(A)	30		39		42	45	48	
	Med		27		37		39	41	45	
	Low		26		34		35	37	41	
Dimensions (H x W x D)			257 x 808 x 187				320 x 1,120 x 220			
Weight			8				16			
Connection pipe diameter	Liquid (Flare)	mm					ø6.35			
	Gas (Flare)		ø9.52		ø12.70				ø15.88	
	Drain		ø12 (I.D.); ø16.2 - 17 (O.D.)						ø12 (I.D.); ø16 (O.D.)	

Note: Specifications are based on the following conditions.

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

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

Voltage: 230[V]

Maximum comfort from inbuilt flexibility

Heat recovery  
AO90MPCMF



## High Efficiency

### Operating system

Cooling and heating can be performed simultaneously within the same refrigerant circuit. Energy savings are made by transferring heat between the indoor units when in heat recovery operation.

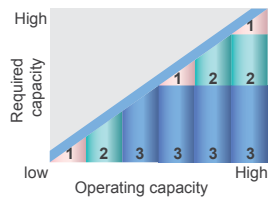
Cooling EER  
**2.98\***

Heating COP  
**3.15\***

\*EER/COP values are based on our own testing method.

### Smooth operation delivering high efficiencies

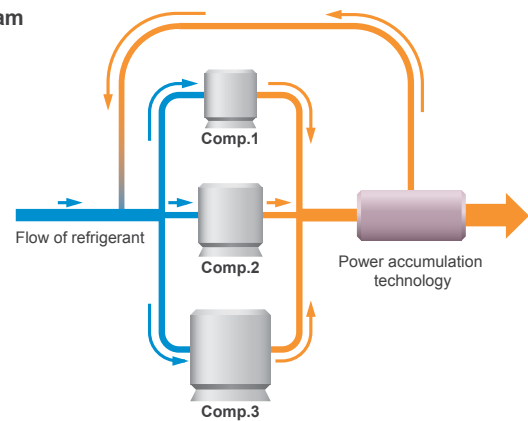
The configuration of 3 constant speed compressors with differing capacities and power accumulation technology ensure smooth step changes and highly efficient operation.



### Power accumulation technology

Flow rate to the indoor unit(s) is controlled through the use of 3 differently rated compressors operating in a sequential step arrangement. While power accumulation technology controls the circulating load of the refrigerant flow between those steps.

#### Diagram



## Comfortable Operation

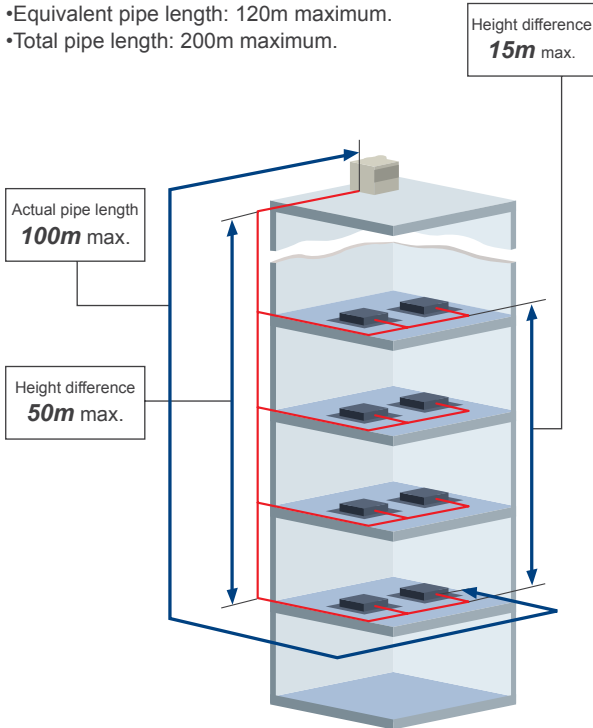
### Heat recovery operation

Heat recovery operation is a cooling/heating free operation system, cooling and heating can be performed simultaneously in the same refrigerant system according to user needs. At the moment, the Heat Recovery operation is an extremely superior type that provides a still greater energy saving effect by moving heat between indoor units that are performing the cooling and heating operations. This is by having the compressors act like a pump.

# Design Versatility

## Long piping system design

- Equivalent pipe length: 120m maximum.
- Total pipe length: 200m maximum.



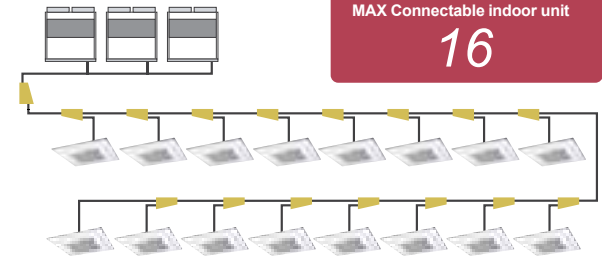
\*When outdoor unit is located above indoor unit. When outdoor unit is located below the indoor unit the height difference is 40m maximum.

## High capacity connection

One outdoor unit can control up to 16 indoor units (28kW) of different types and capacities.

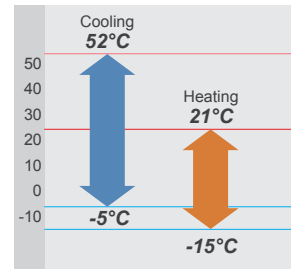
Connectable capacity of indoor units for one outdoor unit  
**50 to 130%**

MAX Connectable indoor unit  
**16**



## Wide operating range

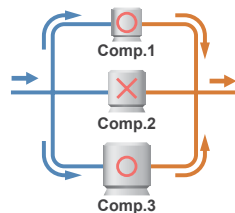
Outdoor unit operates over an outdoor temperature range of -5°C to 52°C for cooling and -15°C to 21°C for heating.



# High Reliability

## Recovery operation

**Outdoor Unit:** In the event of compressor failure an alarm is automatically triggered and the remaining compressor(s) will continue to operate, thereby ensuring continuous operation when possible.



**Indoor Unit:** Each indoor unit operates independently from the others and is, therefore, not affected by a failure within any part of the network.

## Oil recovery operation

After a fixed period of time the oil recovery operation automatically returns accumulated oil found in the refrigerant circuit and indoor units.

# Improved Comfort

## Quiet operation

Operational noise has been reduced yet further through the application of a new dual casing bell-mouth and large fan. When set to silent operation, noise levels can be reduced by 5-6dB(A) compared to normal operation.

Normal operation mode  
**55dB(A)**

Silent operation mode  
**50dB(A)**

(380V)

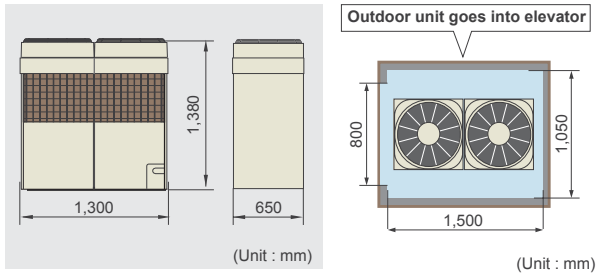
## Easy Installation

### Space saving

Space saving by setting side by side without space in

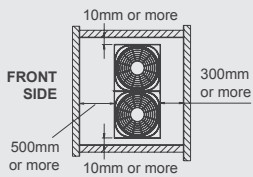
Setting size **5.72** (Unit: m<sup>2</sup>)

#### Dimensions

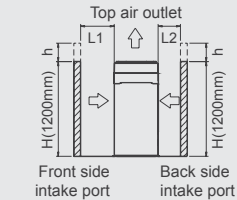
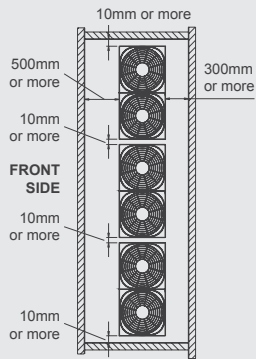


#### Installation space

##### For individually



##### For continuous



There is no height restriction for the side wall.  
The height(H) of front and rear wall should be less than 1,200mm.  
If the height of wall exceeds 1,200mm by h mm, add h mm to the service space width for L1 and L2.  
 $H \leq 1,200$  :  $L1 \geq 500$ ,  $L2 \geq 300$      $H > 1,200 + h$  :  $L1 > 500 + h$ ,  $L2 > 300 + h$

### Easy wiring

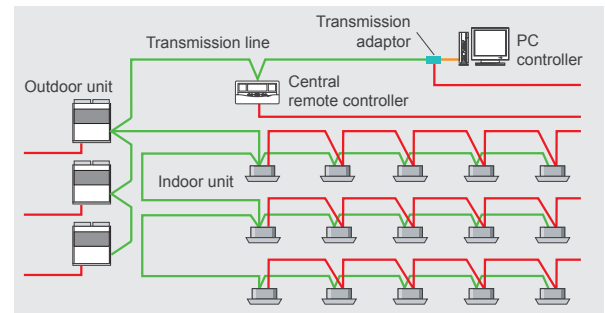
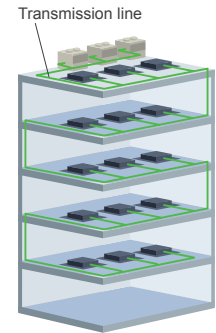
#### Transmission line:

Non-polar 2-conductor transmission line prevents erroneous wiring.

#### Power supply wiring:

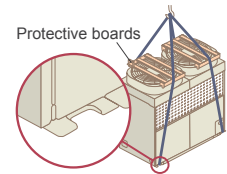
Power supply for outdoor and indoor units is different.

- Outdoor unit  
3Ø 4W 380 - 415V 50Hz
- Indoor unit:  
1Ø 2W 220 - 240V 50Hz



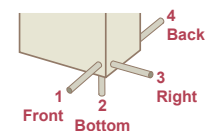
### Craning into place

The outdoor unit can be lifted by crane and set down on the building roof.



### Four-direction pipe

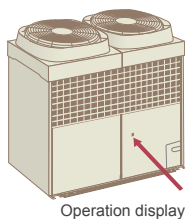
Four-direction piping allows a variety of installation configurations.  
Easy installation and pipe direction setting.



## Easy Maintenance

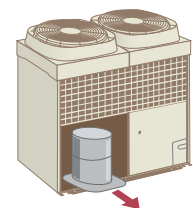
### Operating display

By indicating the operating status and details of failures on a PCB in the outdoor unit, better service and quick and easy maintenance are possible.



### Easy replacement

A pull-out plate ensures easy compressor replacement if necessary.



### Pump down control

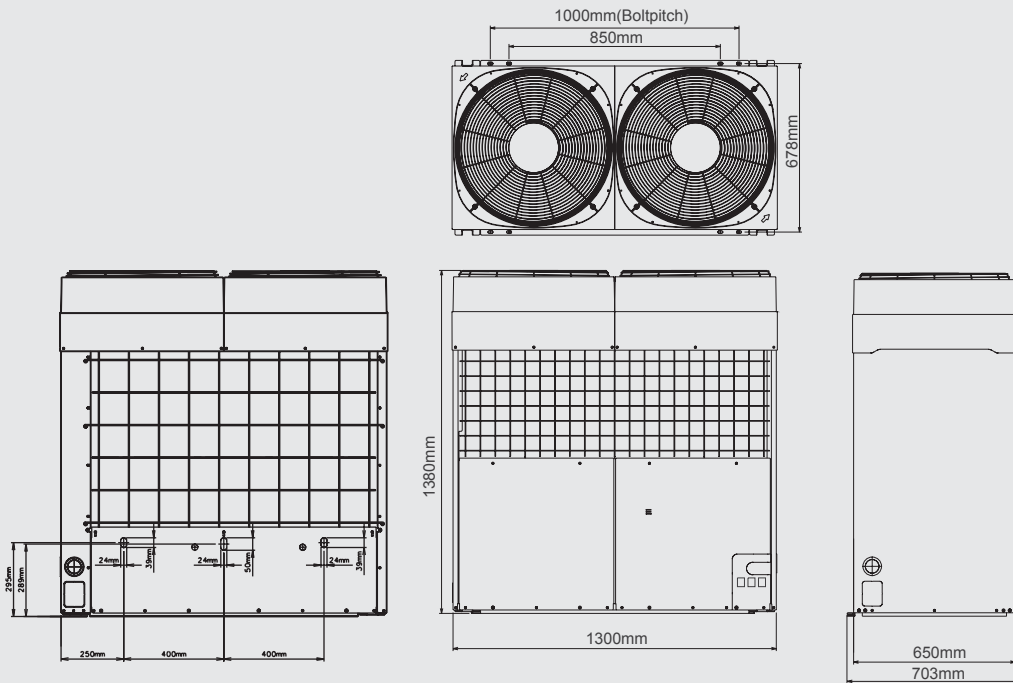
Pump down can be performed from the outdoor unit using the switch on the PCB.



## Outdoor units specifications

### Dimensions Model: AO90MPCMF

(Unit : mm)



### Specifications




















Rating Capacity range	HP	10
Model name	AO90MPCMF	
Maximum Connectable Indoor Unit	16	
Indoor unit connectable capacity	Cooling kW	14 to 36.4
Power source	3 phase, 380 - 415V, 50Hz	
Capacity	Cooling kW	28.0
	Heating kW	31.5
Input power	Cooling kW	9.40
	Heating kW	10.0
EER	Cooling W/W	2.98
COP	Heating W/W	3.15
Air flow rate	High m <sup>3</sup> /h	9,800
Sound pressure level	Normal operation mode dB	57
	Silent operation mode (A)	51
Compressor motor output	kW	1.5 / 3.4 / 5.0
Heat exchanger fin	Plate fin coil	
Dimensions	Height mm	1,380
	Width mm	1,300
	Depth mm	650
Weight	kg	305
Refrigerant charge	kg	11.8
Connection pipe diameter	Liquid mm	ø12.70
	Gas mm	Discharge Gas ø19.05 / Suction Gas ø28.58
Operation range	Cooling °C	-5 to 52
	Heating °C	-15 to 21

Note : Specifications are based on the following conditions.




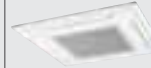
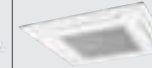



















Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

## Indoor units lineup

Capacity range (kW)	2.20	2.20	3.60	4.05	5.30	
Model code	7	9	12	14	18	
<b>Compact Cassette</b>	 AUXB07LATF	 AUXB09LATF	 AUXB12LATF	 AUXB14LATF	 AUXB18LATF	
<b><small>Slim Type</small> Cassette</b>						
<b><small>Silent model</small> Compact Duct</b>	 ARXB07LALF	 ARXB09LALF	 ARXB12LALF	 ARXB14LALF	 ARXB18LALF	
<b><small>Silent model</small> Low Static Pressure Duct</b>						
<b>Duct</b>						
<b>High Static Pressure Duct</b>						
<b>Floor / Ceiling</b>			 ABYA12LATF	 ABYA14LATF	 ABYA18LATF	
<b>Ceiling</b>						
<b>Wall Mounted</b>					 ASYA18LATF	
<b>Ceiling Wall</b>	 AWYA07LATF	 AWYA09LATF	 AWYA12LATF	 AWYA14LATF	 AWYA18LATF	

10 Types, 45 Models, Capacity range from 2.2 kW to 17.0 kW Indoor units of S series.

	5.70 20	6.80 24	7.05 25	8.80 30	10.5 36	12.7 45	14.1 54	17.0 60
	 AUYA20LATF		 AUYA25LATF	 AUYA30LATF	 AUYA36LATF	 AUYA45LATF	 AUYA54LATF	
			 ARXB25LATF	 ARXB30LATF	 ARXB36LATF	 ARXB45LATF		
			 ARXA25LATF	 ARXA30LATF	 ARXA36LATF	 ARXA45LATF		
					 ARXC36LATF	 ARXC45LATF		 ARXC60LATF
	 ABYA24LATF							
				 ABYA30LATF	 ABYA36LATF	 ABYA45LATF	 ABYA54LATF	
	 ASYA24LATF			 ASYA30LATF				
	 AWYA24LATF			 AWYA30LATF				

## Indoor units specifications

### Compact Cassette



Model name		AUXB07LATF	AUXB09LATF	AUXB12LATF	AUXB14LATF	AUXB18LATF
Power source		230V~ , 50Hz				
Capacity	Cooling	2.20	2.80	3.60	4.00	5.00
	Heating	2.50	3.20	4.10	4.50	5.45
Input power		28	28	52	52	50
Airflow rate	High	530	530	580	580	640
	Med	480	480	520	520	540
	Low	410	410	460	460	470
Sound pressure level	High	38	38	41	41	44
	Med	35	35	37	37	38
	Low	31	31	34	34	35
Dimensions (H x W x D)		230 x 570 x 570	230 x 570 x 570	230 x 570 x 570	230 x 570 x 570	230 x 570 x 570
Weight		18	18	18	18	18
Connection pipe diameter	Liquid (Flare)	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52
	Gas (Flare)	ø12.7	ø12.7	ø12.7	ø12.7	ø15.88
Grille		UTG-UDYD-W (Option)				

Note : Specifications are based on the following conditions.

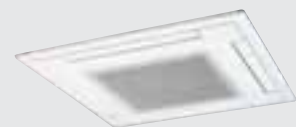
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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].

### Cassette



Model name		AUYA20LATF	AUYA25LATF	AUYA30LATF	AUYA36LATF	AUYA45LATF	AUYA54LATF
Power source		230V~ , 50Hz					
Capacity	Cooling	5.70	7.05	8.80	10.5	12.7	14.1
	Heating	5.80	7.85	9.10	12.7	13.7	15.8
Input power		104	124	140	175	190	219
Airflow rate	High	1,000	1,100	1,250	1,500	1,550	1,700
	Med	840	940	1,050	1,300	1,350	1,420
	Low	700	780	840	1,100	1,100	1,200
Sound pressure level	High	41	43	46	47	48.5	51.5
	Med	37	40	43	42.5	46	47.5
	Low	33	35	37	38	41	43.5
Dimensions (H x W x D)	(Main body)	246 x 830 x 830	246 x 830 x 830	246 x 830 x 830	296 x 830 x 830	296 x 830 x 830	296 x 830 x 830
	(With Panel)	265 x 940 x 940	265 x 940 x 940	265 x 940 x 940	315 x 940 x 940	315 x 940 x 940	315 x 940 x 940
Weight		34	34	34	40	40	40
Connection pipe diameter	Liquid (Flare)	ø9.52	ø9.52	ø9.52	ø9.52	ø9.52	ø9.52
	Gas (Flare)	ø15.88	ø15.88	ø15.88	ø19.05	ø19.05	ø19.05

Note : Specifications are based on the following conditions.

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

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

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

Voltage : 230 [V].

## Compact Duct Low Static Pressure Duct Duct



Model name		ARXB07 LALF	ARXB09 LALF	ARXB12 LALF	ARXB14 LALF	ARXB18 LALF	ARXB25 LATF	ARXB30 LATF	ARXB36 LATF	ARXB45 LATF	ARXA25 LATF	ARXA30 LATF	ARXA36 LATF	ARXA45 LATF	
Power source		230V~, 50Hz													
Capacity	Cooling	2.20	2.80	3.60	4.00	5.30	7.00	8.80	10.5	12.7	7.00	8.80	10.5	12.7	
	Heating	2.50	3.20	4.10	4.80	5.60	7.70	9.50	12.7	14.3	7.70	9.50	12.7	14.3	
Input power		31.2	32.6	55.0	63.0	103.0	155	171	216	246	161	172	220	312	
Airflow rate	High	330	370	560	610	950	1,090	1,200	1,440	1,580	1,100	1,400	1,750	1,800	
	Med	300	340	500	550	790	970	1,090	1,270	1,450	1,000	1,300	1,650	1,600	
	Low	270	310	420	470	620	870	970	1,160	1,320	900	1,200	1,550	1,500	
Static pressure range		Pa	0 to 50	0 to 50	0 to 50	0 to 50	0 to 80	0 to 80	0 to 80	0 to 80	30 to 150	30 to 150	30 to 150	30 to 150	
Sound pressure level	High	dB(A)	29	31	30	31	40	29	31	35	37	38	40	43	44
	Med	27	29	28	29	35	26	28	32	35	36	38	41	42	
	Low	24	27	25	26	30	24	26	30	33	34	36	39	40	
Dimensions (H x W x D)		mm	217x663x595	217x663x595	217x953x595	217x953x595	217x953x595	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700
Weight		kg	18	18	25	25	25	43	43	43	45	43	43	45	
Connection pipe diameter	Liquid (Flare)	mm	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52	ø9.52	ø9.52	ø9.52	ø9.52	ø9.52	ø9.52	ø9.52	
	Gas (Flare)	mm	ø12.7	ø12.7	ø12.7	ø12.7	ø15.88	ø15.88	ø15.88	ø19.05	ø19.05	ø15.88	ø15.88	ø19.05	

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]; Standard static pressure : 0 Pa (ARXB07LALF, ARXB09LALF, ARXB12LALF, ARXB18LALF, ARXB25LATF, ARXB30LATF, ARXB36LATF, ARXB45LATF)

Voltage : 230 [V]; Standard static pressure : 100 Pa (ARXA25LATF, ARXA30LATF, ARXA36LATF, ARXA45LATF)

## High Static Pressure Duct



Model name		ARXC36LATF	ARXC45LATF	ARXC60LATF
Power source		230V~, 50Hz		
Capacity	Cooling	10.5	12.7	17.0
	Heating	12.7	14.3	18.2
Input power		405	427	427
Airflow rate	High	2,500	3,500	3,500
	Med	1,950	3,000	3,000
	Low	1,450	2,460	2,460
Static pressure range		Pa	100 to 200	100 to 250
Sound pressure level	High	dB(A)	45	49
	Med	38	45	45
	Low	32	42	42
Dimensions (H x W x D)		mm	400 x 1,050 x 500	400 x 1,050 x 500
Weight		kg	45	50
Connection pipe diameter	Liquid (Flare)	mm	ø9.52(Flare)	ø9.52(Flare)
	Gas (Flare)	mm	ø19.05 (Flare)	ø19.05 (Flare)

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]; Standard static pressure : 100 Pa (ARXC36LATF, ARXC45LATF, ARXC60LATF).

## Indoor units specifications

### Floor / Ceiling



Model name			ABYA12LATF	ABYA14LATF	ABYA18LATF	ABYA24LATF
Power source			230V~, 50Hz			
Capacity	Cooling	kW	3.60	4.05	5.30	6.60
	Heating		4.10	5.00	5.60	7.70
Input power		W	57	57	88	88
Airflow rate	High	m <sup>3</sup> /h	640	640	780	880
	Med		560	560	650	740
	Low		480	480	550	630
Sound pressure level	High	dB(A)	40	40	46	48
	Med		37	37	41.5	45
	Low		34	34	37	41
Dimensions (H x W x D)		mm	199 x 990 x 655	199 x 990 x 655	199 x 990 x 655	199 x 990 x 655
Weight		kg	28	28	28	28
Connection pipe diameter	Liquid (Flare)	mm	ø6.35	ø6.35	ø9.52	ø9.52
	Gas (Flare)		ø12.7	ø12.7	ø15.88	ø15.88

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].

### Ceiling



Model name			ABYA30LATF	ABYA36LATF	ABYA45LATF	ABYA54LATF
Power source			230V~, 50Hz			
Capacity	Cooling	kW	8.80	10.5	12.7	14.1
	Heating		9.10	12.7	13.7	15.8
Input power		W	124	144	160	180
Airflow rate	High	m <sup>3</sup> /h	1,450	1,660	1,850	2,200
	Med		1,280	1,500	1,660	2,000
	Low		980	1,270	1,430	1,800
Sound pressure level	High	dB(A)	42	45	48	52
	Med		39	42	46	50
	Low		35	37	41	46
Dimensions (H x W x D)		mm	240 x 1,660 x 700	240 x 1,660 x 700	240 x 1,660 x 700	240 x 1,660 x 700
Weight		kg	48	48	48	48
Connection pipe diameter	Liquid (Flare)	mm	ø9.52	ø9.52	ø9.52	ø9.52
	Gas (Flare)		ø15.88	ø19.05	ø19.05	ø19.05

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].

## Wall Mounted



Model name		ASYA18LATF	ASYA24LATF	ASYA30LATF
Power source		230V~, 50Hz		
Capacity	Cooling	5.40	6.90	8.00
	Heating	5.60	7.80	8.80
Input power		38	50	60
Airflow rate	High	800	970	1,040
	Med	650	870	910
	Low	550	750	730
Sound pressure level	High	41	45	47.5
	Med	36.5	41	44
	Low	33	37	39.5
Dimensions (H x W x D)		320 x 1,120 x 220	320 x 1,120 x 220	320 x 1,120 x 220
Weight		16	16	16
Connection pipe diameter	Liquid (Flare)	ø9.52	ø9.52	ø9.52
	Gas (Flare)	ø15.88	ø15.88	ø15.88

## Ceiling Wall



Model name		AWYA07LATF	AWYA09LATF	AWYA12LATF	AWYA14LATF	AWYA18LATF	AWYA24LATF	AWYA30LATF
Power source		230V~, 50Hz						
Capacity	Cooling	2.20	2.80	3.60	4.30	5.40	6.90	8.00
	Heating	2.50	3.20	4.10	4.90	5.60	7.80	8.80
Input power		16	19	20	21	30	40	50
Airflow rate	High	380	480	600	650	760	900	950
	Med	330	420	520	570	660	780	870
	Low	290	390	470	490	560	650	780
Sound pressure level	High	34	35	35	37	40	44	47
	Med	32	32	33	35	37	41	45
	Low	30	30	31	32	34	37	42
Dimensions (H x W x D)		270 x 1,150 x 285	270 x 1,150 x 285	270 x 1,150 x 285	270 x 1,150 x 285	270 x 1,150 x 285	270 x 1,150 x 285	270 x 1,150 x 285
Weight		16	16	16	16	16	16	16
Connection pipe diameter	Liquid (Flare)	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52	ø9.52	ø9.52
	Gas (Flare)	ø12.7	ø9.52	ø12.7	ø12.7	ø15.88	ø15.88	ø15.88

Note : Specifications are based on the following conditions.

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

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

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

Voltage : 230 [V].



# AIRSTAGE™ V-II

Smart and cutting edge design  
 Extensive lineup from 8HP to 48HP  
 in 2HP increment  
 Connectable indoor unit capacity  
 ratio up to 150%



8, 10, 12HP

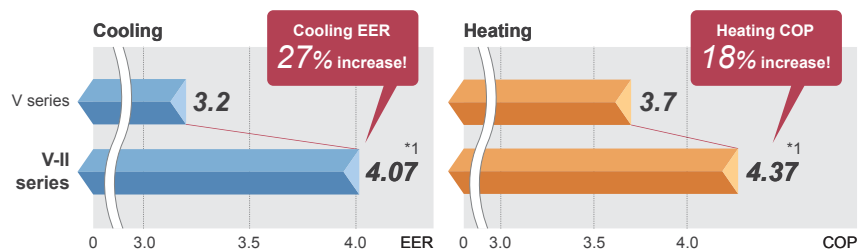


14, 16HP

## 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.

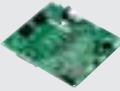


\* "EER/COP" is the coefficient of performance  
 [= capacity (kW) ÷ input power (kW)].  
 \*EER/COP values are based on our own testing method.  
 \*1. The data refers to a 8HP outdoor unit.


### Energy saving technology that boosted operation efficiency



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



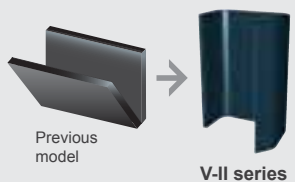
**Sine-wave DC inverter control:**  
 High efficiency operation is realized by using a sine wave DC inverter control.



**DC twin rotary compressor:**  
 Significantly greater efficiency is realized by use of a large capacity DC twin rotary compressor with substantially increased refrigerant intake and compression efficiency.

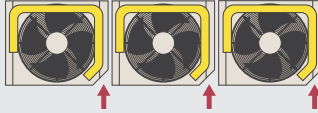


**4-face heat exchanger:** Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.









Previous model → V-II series  
 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

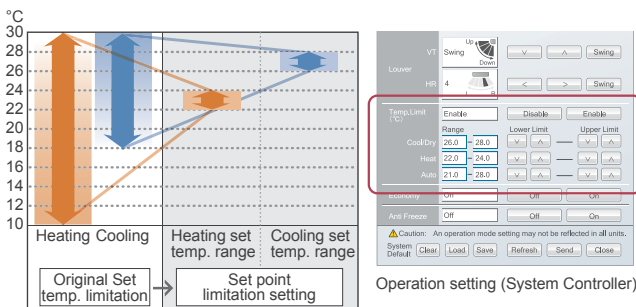
	[ Space saving combination ]	[ Energy efficiency combination ]	
For 16HP	 16HP	→  8HP 8HP	<b>18% energy saving !</b>
For 24HP	 12HP 12HP	→  8HP 8HP 8HP	<b>12% energy saving !</b>
For 28HP	 16HP 12HP	→  12HP 8HP 8HP	<b>10% energy saving !</b>

(Comparison of Average COP)

## Various Energy Saving Features

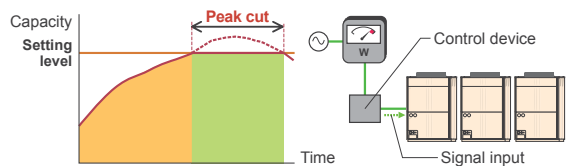
### Room temperature set point limitation

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



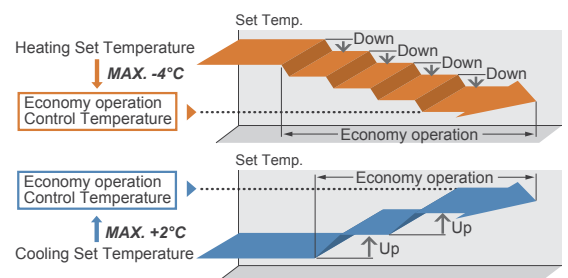
### Peak cut operation

Operation capacity can be set in 4 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.



### Economy operation

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



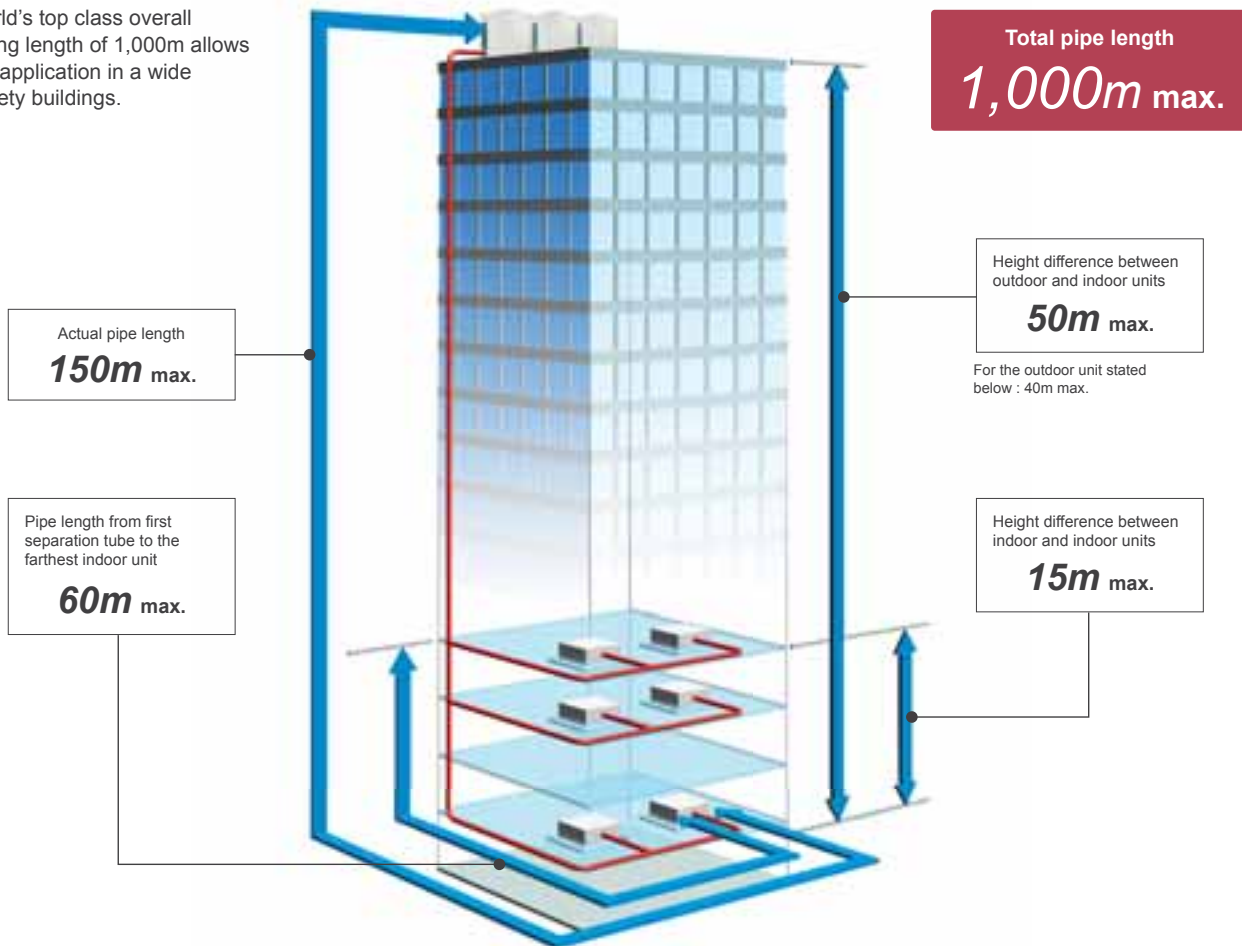
### Auto-off timer

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

### 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.

Previous model

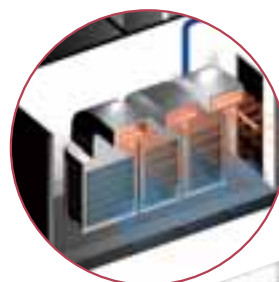


V-II series

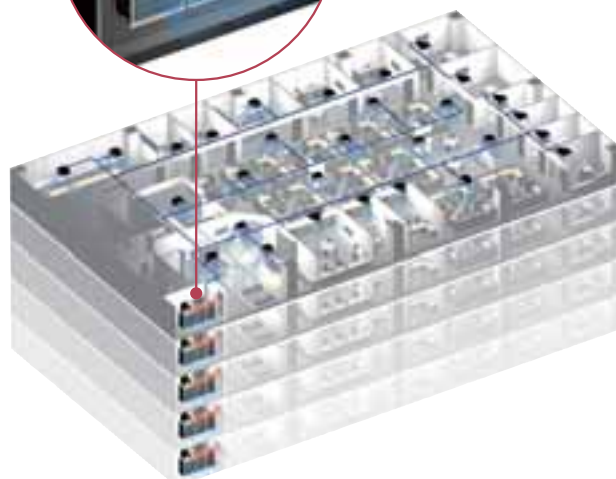


**80Pa**  
as standard

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.

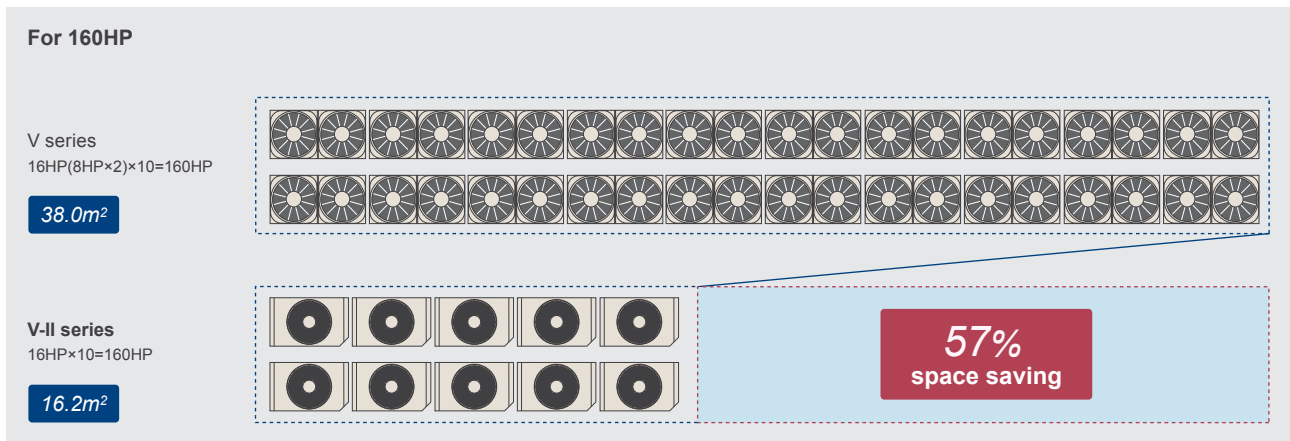
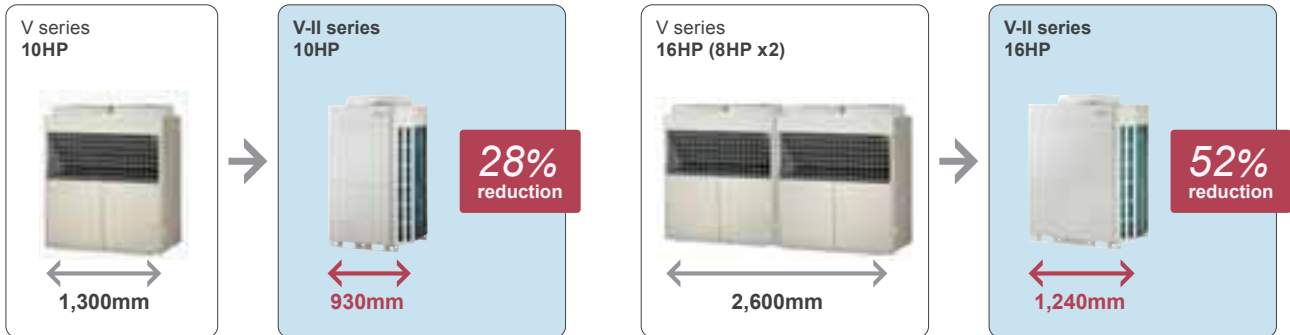


Installation Example



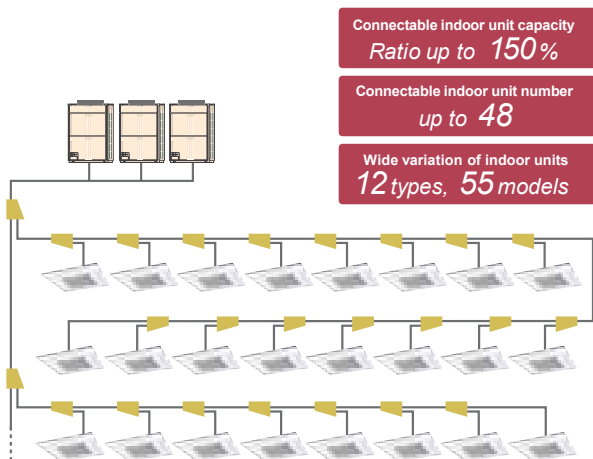
## Space saving and compact size

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



## High capacity connection

Various combination from 8HP to 48HP with 2HP increments. 12 types, 55 models of indoor units can be selected ranging from 2.2kW to 25kW in capacity. A maximum of 150% indoor unit connectable capacity.

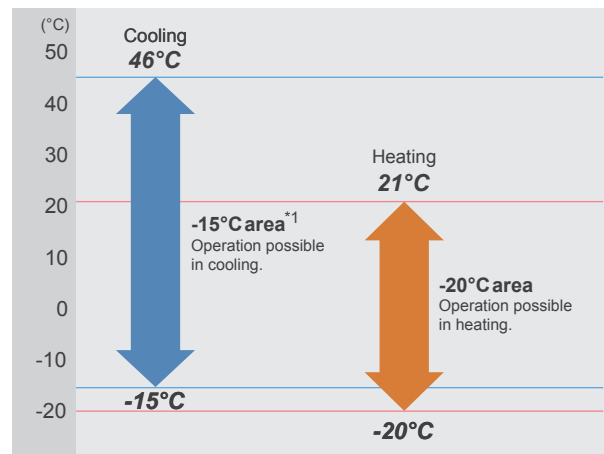


Note : when indoor unit connected capacity is greater than 100%, individual indoor units will operate at a slightly lower capacity when maximum capacity is required.

## 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



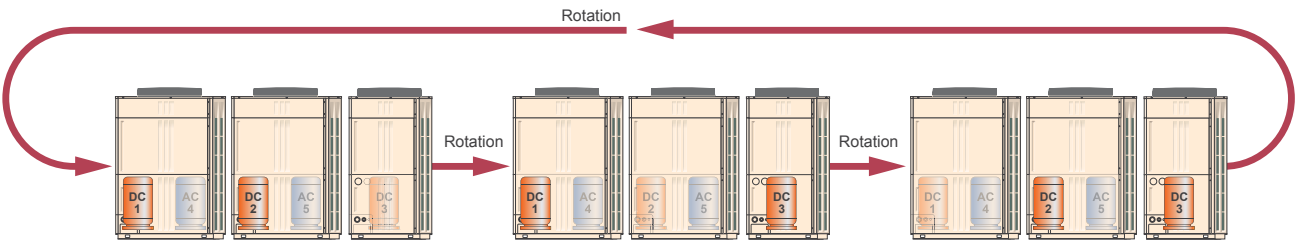
\*1 Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

## High Reliability

### Longer lasting units

#### Outdoor unit operation rotation

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



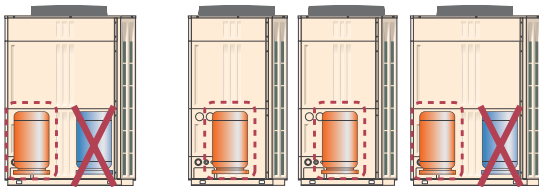
Note: The inverter compressors start in priority. Rotate operation is alternated by the start / stop timing of the compressors

### Continuous operation

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

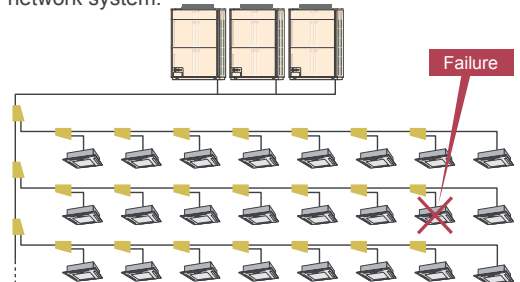
#### Outdoor Units

If one of compressors fails, emergency operation will be performed by the remaining compressors.



#### Indoor unit continuous operation

Each indoor unit is controlled individually on the system network. This allows all indoor units to continue to operate unaffected even if an error should occur at any indoor unit's on the VRF network system.



### Adoption of blue fin heat exchanger

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



### Remote monitoring

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

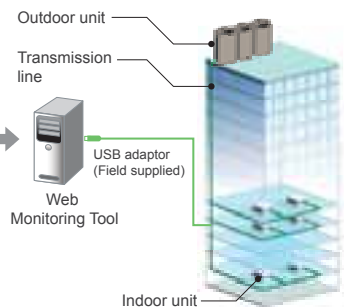
#### Monitoring Side



Internet or Public Telephone Line



#### VRF Network System Side



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

# Easy Installation

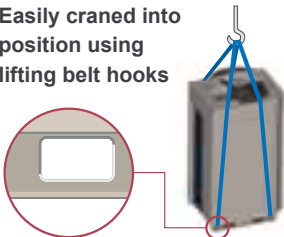
## Easily transported

Light weight

**20% weight reduction**  
(Than Previous model)

Note:  
In the case of 14HP

Easily craned into position using lifting belt hooks



Design of outdoor unit allows for lifting straps to be used

Transporting by forklift

Can be transported in a small elevator

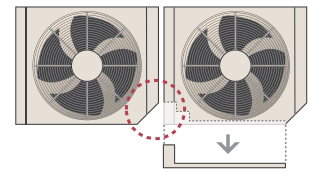


## Easy access

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.



Expansion of work space

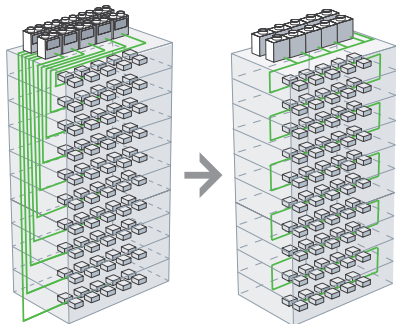


## Simple signal line connection

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

Up to maximum length **3,600m**

V-II series



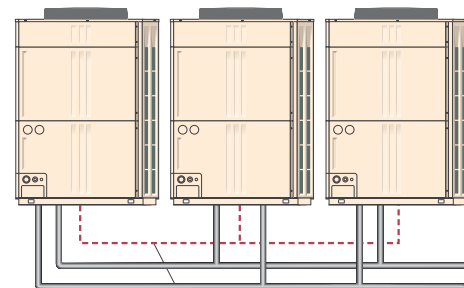
Other wiring method

Simple wiring method

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

## Easy piping connection

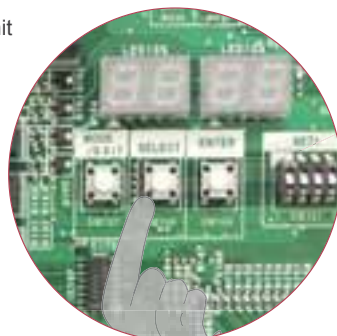
The need for a oil equalization pipe as required on the previous model has been removed. The installation costs have been reduced by employing a simple 2 pipe connection



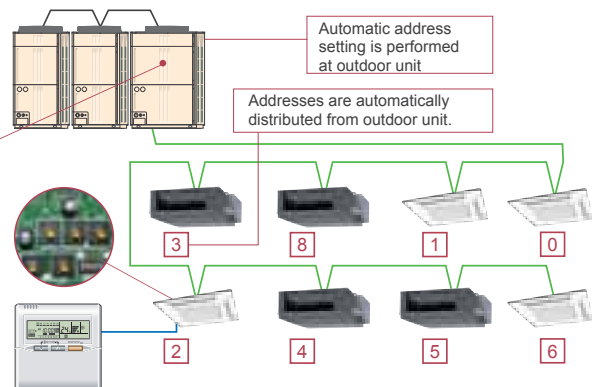
Eliminating oil equalization pipe

## Automatic address setting

The address of each indoor unit can be automatically set by button switch of outdoor unit.



Press the pushbutton switch of outdoor unit.



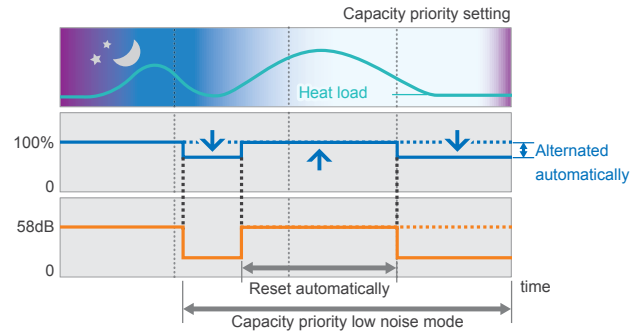
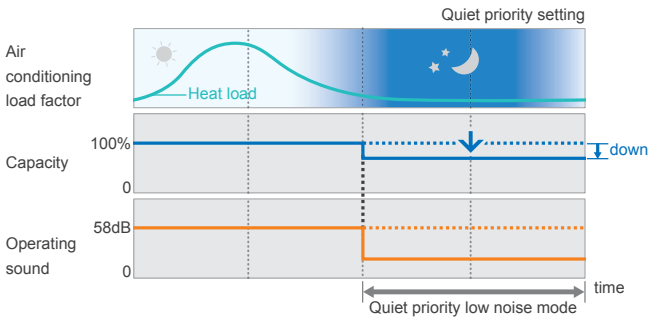
Manual address setting from indoor unit and remote controller is also possible.



## Comfort and Convenience

### 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.

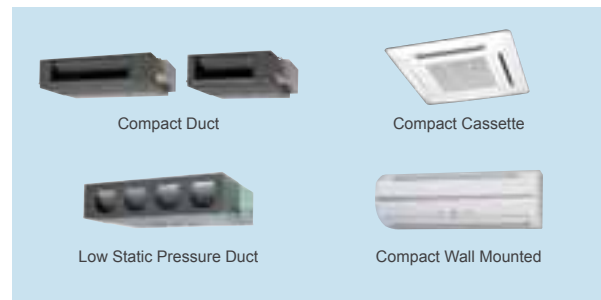


#### Low noise design:

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

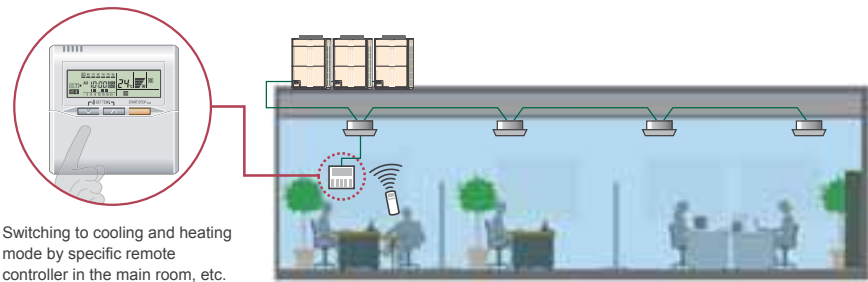


#### Indoor unit: Low noise indoor unit lineup



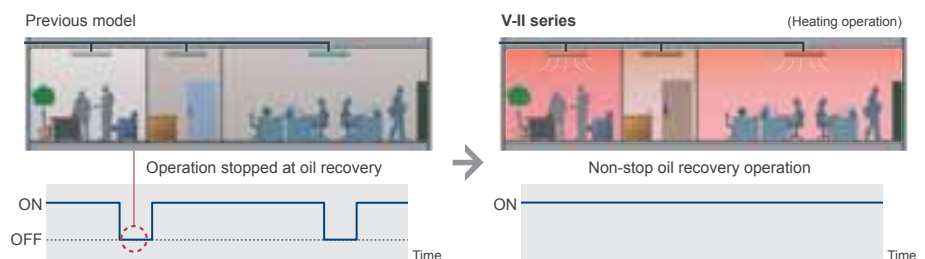
### Auto changeover function

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 with wired remote controller. This ensures comfortable operation all year round.



### Non-stop oil recovery operation

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

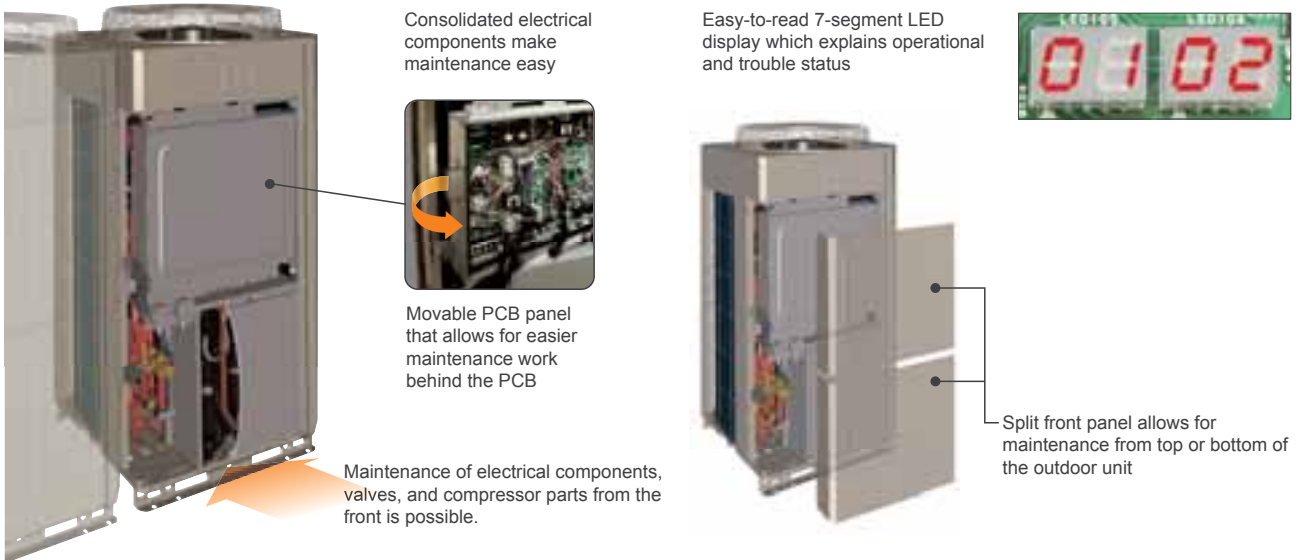




# Easy Service & Maintenance

## Design for easy service and maintenance

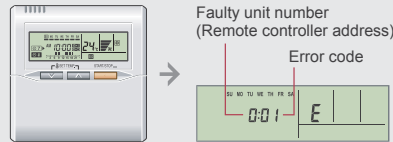
Inspection and replacement of main parts is easier due to innovative construction and an LED operational display.



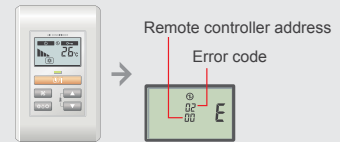
**Error status can be checked easily via the indoor unit wired controller**

An error code is displayed on a liquid crystal screen.

**Wired Remote Controller**



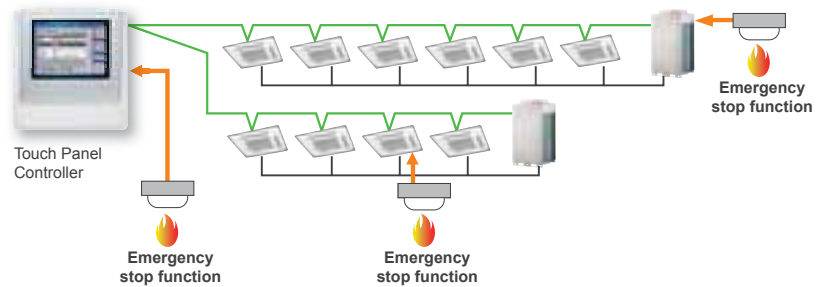
**Simple Remote Controller**



## Emergency stop function

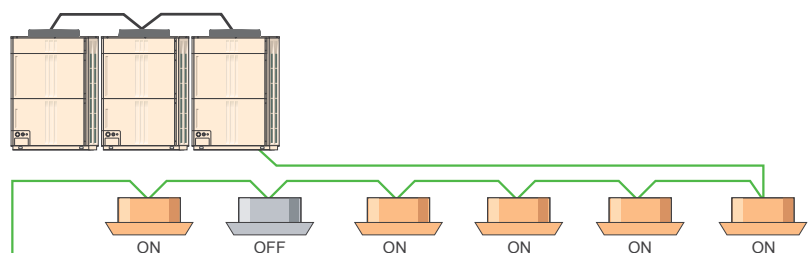
Emergency alarm can be received by indoor, outdoor units or Touch Panel Controller when they received it, all units will be stopped.

**Note:**  
In case of received Emergency alarm by Indoor/outdoor unit: All units connected within same refrigerant system will be stopped. Touch Panel Controller: all unit connected within VRF network system with Touch Panel Controller will be stopped.
























## 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.



## Outdoor units lineup

\*Combinations other than the followings are not recommended.

Space saving combination				
22.4kW (8HP)  AJYA72LALH UNIT : AJYA72LALH	28.0kW (10HP)  AJYA90LALH UNIT : AJYA90LALH	33.5kW (12HP)  AJY108LALH UNIT : AJY108LALH	40.0kW (14HP)  AJY126LALH UNIT : AJY126LALH	45.0kW (16HP)  AJY144LALH UNIT : AJY144LALH
50.4kW (18HP)  AJY162LALH UNIT : AJYA90/A72LALH	55.9kW (20HP)  AJY180LALH UNIT : AJY108/A72LALH	61.5kW (22HP)  AJY198LALH UNIT : AJY108/A90LALH	67.0kW (24HP)  AJY216LALH UNIT : AJY108/108LALH	73.5kW (26HP)  AJY234LALH UNIT : AJY126/108LALH
78.5kW (28HP)  AJY252LALH UNIT : AJY144/108LALH	85.0kW (30HP)  AJY270LALH UNIT : AJY144/126LALH	90.0kW (32HP)  AJY288LALH UNIT : AJY144/144LALH	95.0kW (34HP)  AJY306LALH UNIT : AJY108/108/A90LALH	100.5kW (36HP)  AJY324LALH UNIT : AJY108/108/108LALH
107.0kW (38HP)  AJY342LALH UNIT : AJY126/108/108LALH	112.0kW (40HP)  AJY360LALH UNIT : AJY144/108/108LALH	118.5kW (42HP)  AJY378LALH UNIT : AJY144/126/108LALH	123.5kW (44HP)  AJY396LALH UNIT : AJY144/144/108LALH	130.0kW (46HP)  AJY414LALH UNIT : AJY144/144/126LALH
135.0kW (48HP)  AJY432LALH UNIT : AJY144/144/144LALH				

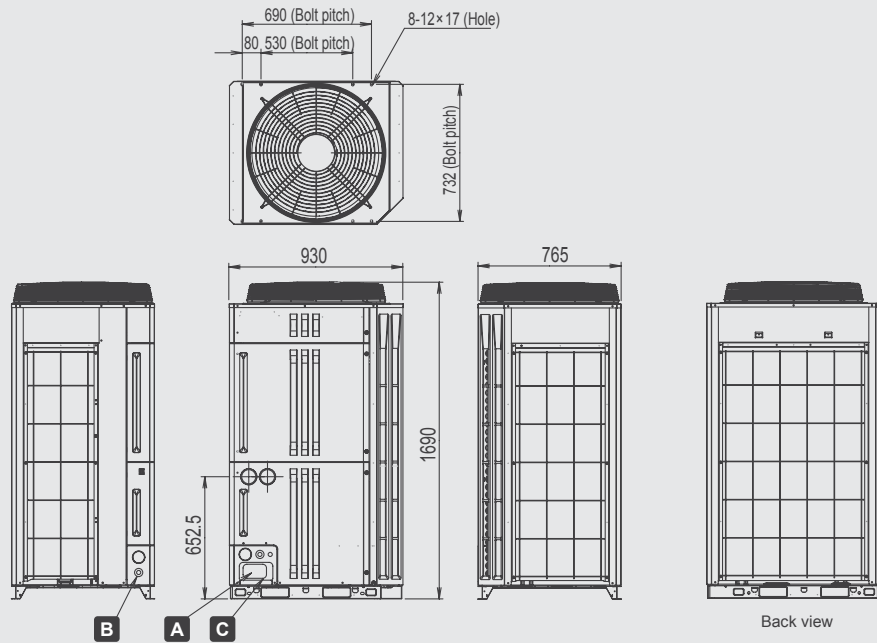
Energy efficiency combination				
44.8kW (16HP)  AJY144LALHH UNIT : AJYA72/A72LALH	62.4kW (22HP)  AJY198LALHH UNIT : AJY126/A72LALH	67.2kW (24HP)  AJY216LALHH UNIT : AJYA72/A72/A72LALH	72.8kW (26HP)  AJY234LALHH UNIT : AJYA90/A72/A72LALH	78.3kW (28HP)  AJY252LALHH UNIT : AJY108/A72/A72LALH
84.8kW (30HP)  AJY270LALHH UNIT : AJY126/A72/A72LALH	89.8kW (32HP)  AJY288LALHH UNIT : AJY108/108/A72LALH	95.9kW (34HP)  AJY306LALHH UNIT : AJY126/108/A72LALH	102.4kW (36HP)  AJY324LALHH UNIT : AJY126/126/A72LALH	113.5kW (40HP)  AJY360LALHH UNIT : AJY126/126/108LALH
120.0kW (42HP)  AJY378LALHH UNIT : AJY126/126/126LALH	125.0kW (44HP)  AJY396LALHH UNIT : AJY144/126/126LALH			

# Outdoor units dimensions

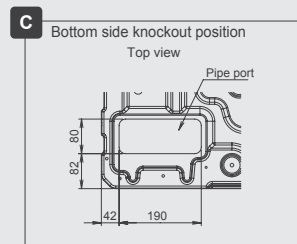
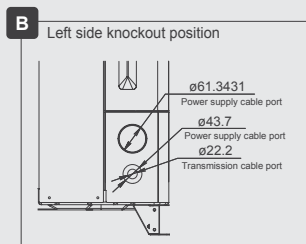
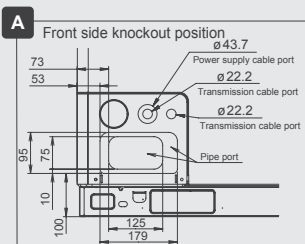
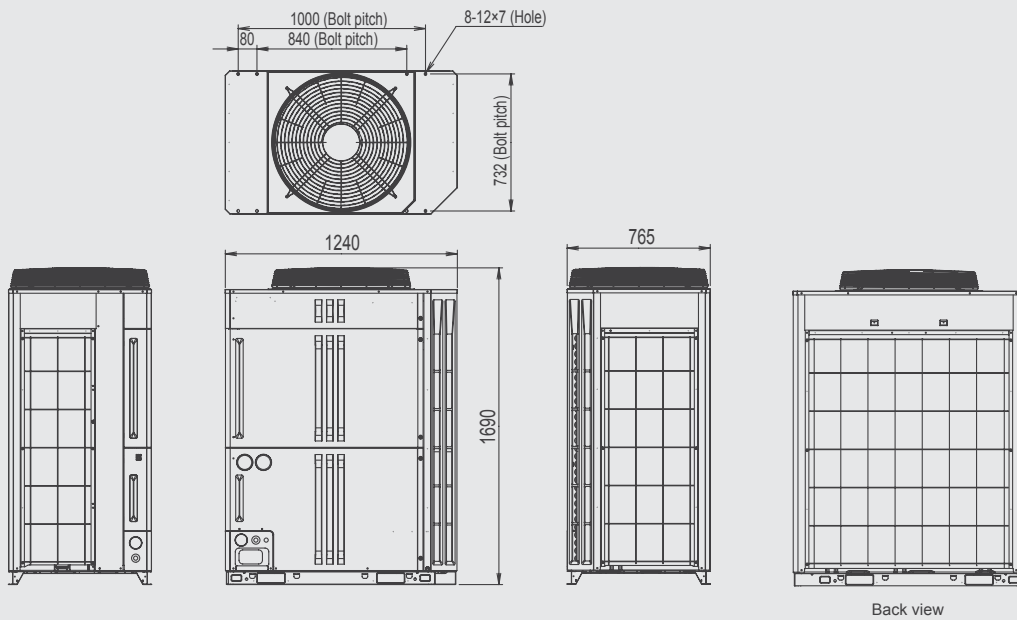
## Dimensions

(Unit : mm)

8,10,12HP: AJYA72LALH / AJYA90LALH / AJY108LALH












14,16HP: AJY126LALH / AJY144LALH









## Outdoor units specifications

### Space Saving Combination








Rating Capacity range		HP	8	10	12	14	16	18	20	22	24
											
Model name			AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY162LALH	AJY180LALH	AJY198LALH	AJY216LALH
Unit 1			AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJYA90LALH	AJY108LALH	AJY108LALH	AJY108LALH
Unit 2								AJYA72LALH	AJYA72LALH	AJYA90LALH	AJY108LALH
Unit 3											AJY108LALH
Maximum Connectable Indoor Unit*1			15	16	17	21	24	32	32	32	35
Indoor unit connectable capacity		Cooling	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			3-phase 4 wire, 400 V, 50Hz								
Capacity		Cooling	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0
		Heating	25.0	31.5	37.5	45.0	50.0	56.5	62.5	69.0	75.0
Input power		Cooling	5.51	7.73	9.62	11.53	14.17	13.24	15.13	17.35	19.24
		Heating	5.72	7.83	9.28	11.45	12.60	13.55	15.00	17.11	18.56
EER		Cooling	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
Air flow rate		High	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 pressure level*2		Cooling	56	58	58	60	61	60	60	61	61
		Heating	58	59	60	61	61	62	62	63	63
Maximum external static pressure			80	80	80	80	80	80	80	80	80
Compressor motor output			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
Dimensions		Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
		Width	mm	930	930	930	1,240	1,240	930 x 2	930 x 2	930 x 2
		Depth	mm	765	765	765	765	765	765	765	765
Weight			kg	220	220	275	296	296	220 + 220	275 + 220	275 + 220
Refrigerant charge			kg	11.2	11.2	11.8	11.8	11.8	11.2 x 2	11.8 + 11.2	11.8 x 2
Connection pipe diameter		Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88
		Gas	mm	22.20	22.20	28.58	28.58	28.58	28.58	28.58	34.92
Operation range		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
		Heating	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21







### Energy Efficiency Combination

Rating Capacity range		HP	16	22	24	26	28	30
								
Model name			AJY144LALHH	AJY198LALHH	AJY216LALHH	AJY234LALHH	AJY252LALHH	AJY270LALHH
Unit 1			AJYA72LALH	AJY126LALH	AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH
Unit 2			AJYA72LALH	AJYA72LALH	AJYA72LALH	AJYA72LALH	AJYA72LALH	AJYA72LALH
Unit 3								
Maximum Connectable Indoor Unit*1			30	33	36	39	42	45
Indoor unit connectable capacity		Cooling	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			3-phase 4 wire, 400 V, 50Hz					
Capacity		Cooling	44.8	62.4	67.2	72.8	78.3	84.8
		Heating	50.0	70.0	75.0	81.5	87.5	95.0
Input power		Cooling	11.02	17.04	16.53	18.75	20.64	22.55
		Heating	11.44	17.17	17.16	19.27	20.72	22.89
EER		Cooling	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
Air flow rate		High	m³/h	11,100 x 2	13,000 + 11,100	11,100 x 3	11,100 x 3	11,100 x 3
Sound pressure level*2		Cooling	59	61	61	62	62	63
		Heating	59	62	61	62	63	63
Maximum external static pressure			80	80	80	80	80	80
Compressor motor output			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
		Width	mm	930 x 2	930 + 1,240	930 x 3	930 x 3	930 x 3
		Depth	mm	765	765	765	765	765
Weight			kg	220 + 220	296 + 220	220 + 220 + 220	220 + 220 + 220	275 + 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
Connection pipe diameter		Liquid	mm	12.70	15.88	15.88	15.88	15.88
		Gas	mm	28.58	34.92	34.92	34.92	34.92
Operation range		Cooling	°C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
		Heating	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.  
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

26	28	30	32	34	36	38	40	42	44	46	48
											
AJY234LALH	AJY252LALH	AJY270LALH	AJY288LALH	AJY306LALH	AJY324LALH	AJY342LALH	AJY360LALH	AJY378LALH	AJY396LALH	AJY414LALH	AJY432LALH
AJY126LALH	AJY144LALH	AJY144LALH	AJY144LALH	AJY108LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY144LALH	AJY144LALH	AJY144LALH	AJY144LALH
AJY108LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH
				AJYA90LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY126LALH
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, 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 x 2	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	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 2 + 4.5 x 2	3.9 x 2 + 4.5 x 2	3.9 x 2 + 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	3.9 x 3 + 4.5 x 3	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	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	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3	11.8 x 3	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	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	40	42	44
					
AJY288LALHH	AJY306LALHH	AJY324LALHH	AJY360LALHH	AJY378LALHH	AJY396LALHH
AJY108LALH	AJY126LALH	AJY126LALH	AJY126LALH	AJY126LALH	AJY144LALH
AJY108LALH	AJY108LALH	AJY126LALH	AJY126LALH	AJY126LALH	AJY126LALH
AJYA72LALH	AJYA72LALH	AJYA72LALH	AJY108LALH	AJY126LALH	AJY126LALH
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 x 3 + 4.5 x 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 x 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 x 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

\*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.

\* : Data were not available at time of publication.

## Indoor units lineup

Capacity range (kW)	2.20	2.80	3.60	4.50	5.60	
Model code	7	9	12	14	18	
<b>Compact Cassette</b>	 AUXB07LALH	 AUXB09LALH	 AUXB12LALH	 AUXB14LALH	 AUXB18LALH	
<b>Cassette</b>					 AUXD18LALH	
<b>Compact Duct</b>	 ARXB07LALH	 ARXB09LALH	 ARXB12LALH	 ARXB14LALH	 ARXB18LALH	
<b>Slim Duct <span style="color: red;">NEW</span> (Drain pump internal)</b>	<span style="color: red;">NEW</span>  ARXD07LATH	<span style="color: red;">NEW</span>  ARXD09LATH	<span style="color: red;">NEW</span>  ARXD12LATH	<span style="color: red;">NEW</span>  ARXD14LATH	<span style="color: red;">NEW</span>  ARXD18LATH	
<b>Low Static Pressure Duct</b>						
<b>Duct</b>						
<b>High Static Pressure Duct</b>						
<b>Floor / Ceiling</b>			<span style="color: red;">NEW</span>  ABYA12LBTH	<span style="color: red;">NEW</span>  ABYA14LBTH	<span style="color: red;">NEW</span>  ABYA18LBTH	
<b>Ceiling</b>						
<b>Compact Wall Mounted (EEV internal)</b>	 ASYA07LACH	 ASYA09LACH	 ASYA12LACH	 ASYA14LACH		
<b>Compact Wall Mounted (EEV external)</b>	 ASYE07LACH	 ASYE09LACH	 ASYE12LACH	 ASYE14LACH		
<b>Wall Mounted</b>					<span style="color: red;">NEW</span>  ASYA18LACH	

With this model, connection of EV kit is necessary.

	7.10	9.00	11.2	12.5	14.0	18.0	22.4	25.0
	24	30	36	45	54	60	72	90
	 AUXB24LALH							
	 AUXD24LALH	 AUXA30LALH	 AUXA36LALH	 AUXA45LALH	 AUXA54LALH			
	<b>NEW</b>  ARXD24LATH							
	 ARXB24LATH	 ARXB30LATH	 ARXB36LATH	 ARXB45LATH				
	 ARXA24LATH	 ARXA30LATH	 ARXA36LATH	 ARXA45LATH				
			 ARXC36LATH	 ARXC45LATH		 ARXC60LATH	 ARXC72LATH	 ARXC90LATH
	<b>NEW</b>  ABYA24LBTH							
		<b>NEW</b>  ABYA30LBTH	<b>NEW</b>  ABYA36LBTH	<b>NEW</b>  ABYA45LBTH	<b>NEW</b>  ABYA54LBTH			
	<b>NEW</b>  ASYA24LACH	<b>NEW</b>  ASYA30LACH						



## Indoor units specifications

### Compact Cassette



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	2.8	3.2	4.1	5.0	6.3	8.0
Input power		25	25	29	35	36	84
Airflow rate	High	540	550	600	680	710	1,030
	Med	450	450	530	590	580	830
	Low	350	350	390	390	400	450
Sound pressure level	High	34	35	37	38	41	50
	Med	30	30	34	34	35	44
	Low	25	25	27	27	27	30
Dimensions (H x W x D)		mm 245 x 570 x 570					
Weight		kg 15					
Connection pipe diameter	Liquid (Flare)	ø6.35				ø9.52	
	Gas (Flare)	ø12.70				ø15.88	
	Drain	ø25 (I.D.) ; ø32 (O.D.)					
Grille(option)	Model name	UTG-UFYC-W					
	Dimensions (H x W x D)	mm 50 x 700 x 700					
	Weight	kg 2.6					

Note : Specifications are based on the following conditions.

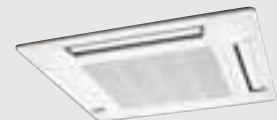
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

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

Voltage : 230 [V].

### Cassette



Model name		AUXD18LALH	AUXD24LALH	AUXA30LALH	AUXA36LALH	AUXA45LALH	AUXA54LALH	
Power source		230V~, 50Hz						
Capacity	Cooling	5.6	7.1	9.0	11.2	12.5	14.0	
	Heating	6.3	8.0	10.0	12.5	14.0	16.0	
Input power		39	46	59	80	99	119	
Airflow rate	High	1,150	1,280	1,600	1,800	1,900	2,000	
	Med	940	1,040	1,300	1,300	1,370	1,370	
	Low	870	870	1,100	1,100	1,100	1,100	
Sound pressure level	High	36	38	40	44	46	47	
	Med	30	33	38	38	39	39	
	Low	29	29	33	33	33	33	
Dimensions (H x W x D)		mm 246 x 840 x 840			mm 288 x 840 x 840			
Weight		kg 23			kg 27			
Connection pipe diameter	Liquid (Flare)	ø9.52					ø19.05	
	Gas (Flare)	ø15.88			ø19.05			
	Drain	ø25 (I.D.) ; ø32 (O.D.)						
Grille(option)	Model name	UTG-UGYA-W						
	Dimensions (H x W x D)	mm 50 x 950 x 950						
	Weight	kg 5.5						

Note : Specifications are based on the following conditions.

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

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

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

Voltage : 230 [V].

## Compact Duct Low Static Duct & Duct



Model name		ARXB07 LALH	ARXB09 LALH	ARXB12 LALH	ARXB14 LALH	ARXB18 LALH	ARXB24 LATH	ARXB30 LATH	ARXB36 LATH	ARXB45 LATH	ARXA24 LATH	ARXA30 LATH	ARXA36 LATH	ARXA45 LATH		
Power source		230V~, 50Hz														
Capacity	Cooling	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	12.5	7.1	9.0	11.2	12.5		
	Heating	2.8	3.2	4.0	5.0	6.3	8.0	10.0	12.5	14.0	8.0	10.0	12.5	14.0		
Input power		46	55	63	90	96	145	198	253	338	190	188	312	312		
Airflow rate	High	370	440	590	800	890	1,100	1,410	1,710	1,970	1,280	1,280	1,720	1,720		
	Med	310	370	500	750	810	920	1,280	1,600	1,790	1,210	1,210	1,670	1,670		
	Low	280	340	450	700	730	810	1,150	1,470	1,670	1,130	1,130	1,600	1,600		
Static pressure range		0 to 50	0 to 50	0 to 50	0 to 50	0 to 50	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		25	25	25	25	25	40	50	50	60	100	100	100	100		
Sound pressure level	High	29	31	30	33	36	31	34	37	41	38	40	43	43		
	Med	26	29	28	32	34	27	32	35	38	36	38	41	41		
	Low	24	27	25	30	30	25	29	33	36	34	36	39	39		
Dimensions (H x W x D)		217 x 663 x 595		217 x 953 x 595			270 x 1,135 x 700			270 x 1,135 x 700						
Weight		18		25			43		45		43		45			
Connection pipe diameter	Liquid (Flare)	ø6.35				ø9.52		ø9.52			ø9.52					
	Gas (Flare)	ø12.70				ø15.88		ø15.88		ø19.05		ø15.88		ø19.05		
	Drain	ø25 (I.D.); ø32 (O.D.)						ø25 (I.D.); ø32 (O.D.)			ø25 (I.D.); ø32 (O.D.)					

## Slim Duct (Drain pump internal)



Model name		ARXD07LATH	ARXD09LATH	ARXD12LATH	ARXD14LATH	ARXD18LATH	ARXD24LATH
Power source		230V~, 50Hz					
Capacity	Cooling	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	2.8	3.2	4.0	5.0	6.3	8.0
Input power		44	50	54	92	83	122
Airflow rate	High	550	600	600	800	940	1,330
	Med	490	550	510	710	840	1,240
	Low	440	480	450	610	750	1,100
Static pressure range		0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure		25	25	25	25	25	25
Sound pressure level	High	28	29	30	34	34	35
	Med	25	26	27	32	32	32
	Low	22	24	24	28	28	29
Dimensions (H x W x D)		198 x 700 x 620				198 x 900 x 620	198 x 1,100 x 620
Weight		18		19		23	27
Connection pipe diameter	Liquid (Flare)	ø6.35				ø9.52	
	Gas (Flare)	ø12.70				ø15.88	
	Drain	ø22 (I.D.); ø26 (O.D.)					

## High Static Pressure Duct



Model name		ARXC36LATH	ARXC45LATH	ARXC60LATH	ARXC72LATH	ARXC90LATH	
Power source		230V~, 50Hz					
Capacity	Cooling	11.2	12.5	18.0	22.4	25.0	
	Heating	12.5	14.0	20.0	25.0	28.0	
Input power		405	427	427	1,110	1,250	
Airflow rate	High	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		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	45	49	49	51	53	
	Med	38	45	45	48	51	
	Low	32	42	42	45	49	
Dimensions (H x W x D)		400 x 1,050 x 500			450 x 1,550 x 700		
Weight		45	47		82	85	
Connection pipe diameter	Liquid	ø9.52 (Flare)				ø12.70 (Brazing)	
	Gas	ø19.05 (Flare)				ø22.22 (Brazing)	
	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.

## Indoor units specifications

### Floor / Ceiling



Model name		ABYA12LBTH	ABYA14LBTH	ABYA18LBTH	ABYA24LBTH
Power source		230V~, 50Hz			
Capacity	Cooling	3.6	4.5	5.6	7.1
	Heating	4.0	5.0	6.3	8.0
Input power		30	42	74	99
Airflow rate	High	660	780	1,000	1,000
	Med	570	640	720	820
	Low	490	550	580	680
Sound pressure level	High	36	40	46	47
	Med	32	36	39	42
	Low	28	34	35	37
Dimensions (H x W x D)		199 x 990 x 655			
Weight		25		27	
Connection pipe diameter	Liquid (Flare)	ø6.35		ø9.52	
	Gas (Flare)	ø12.70		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.

Voltage : 230 [V].

### Ceiling



Model name		ABYA30LBTH	ABYA36LBTH	ABYA45LBTH	ABYA54LBTH
Power source		230V~, 50Hz			
Capacity	Cooling	9.0	11.2	12.5	14.0
	Heating	10.0	12.5	14.0	16.0
Input power		66	85	131	180
Airflow rate	High	1,630	1,690	2,010	2,270
	Med	1,370	1,400	1,600	1,780
	Low	1,140	1,170	1,230	1,280
Sound pressure level	High	42	45	48	51
	Med	38	38	42	45
	Low	33	34	35	36
Dimensions (H x W x D)		240 x 1,660 x 700			
Weight		47		48	
Connection pipe diameter	Liquid (Flare)	ø9.52		ø9.52	
	Gas (Flare)	ø15.88		ø19.05	
	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.

Voltage : 230 [V].

## Compact Wall Mounted



Model name			ASYA07LACH	ASYA09LACH	ASYA12LACH	ASYA14LACH	ASYE07LACH	ASYE09LACH	ASYE12LACH	ASYE14LACH
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		2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0
Input power			16	16	19	30	15	16	20	28
Airflow rate	High	m <sup>3</sup> /h	490	500	560	670	490	500	560	680
	Med		450	450	480	490	450	450	480	490
	Low		370	370	420	420	370	370	420	420
Sound pressure level	High	dB(A)	35	36	39	44	34	35	38	43
	Med		33	33	35	37	32	32	34	35
	Low		27	27	31	32	26	26	30	30
Dimensions (H x W x D)			275 x 790 x 215				275 x 790 x 215			
Weight			9				9			
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø6.35			
	Gas (Flare)		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	

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].

## Wall Mounted



Model name			ASYA18LACH	ASYA24LACH	ASYA30LACH
Power source			230V~, 50Hz		
Capacity	Cooling	kW	5.6	7.1	8.0
	Heating		6.3	8.0	9.0
Input power			35	64	91
Airflow rate	High	m <sup>3</sup> /h	840	1,100	1,240
	Med		770	910	980
	Low		690	730	770
Sound pressure level	High	dB(A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H x W x D)			320 x 998 x 228		
Weight			15		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52		
	Gas (Flare)		ø15.88		
	Drain		ø12 (I.D.) ; ø16 (O.D.)		

Note : Specifications are based on the following conditions.













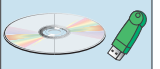




Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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.

Voltage : 230 [V].

# Control Systems Lineup

Type			Split	Multi	VRF		
					J	S	V-II
Individual control system	Wired Remote Controller		● UTB-YUD	● UTB-YUD	● UTB-YUB	● UTB-YUB	● UTY-RNKY
	Simple Remote Controller		● UTB-YPB	● UTB-YPB	● UTB-YPB	● UTB-YPB	● UTY-RSKY
	Simple Remote Controller (Without master control)		—	—	● UTB-YRA	● UTB-YRA	● UTY-RHKY
	Wireless Remote Controller		● UTB-YNA	● UTB-YNA	Accessory	● UTB-YVB	● UTY-LNHY
	IR Receiver Unit		● UTY-LRHY1 UTY-LRJY1 With wireless remote controller	● UTY-LRHY1 UTY-LRHYM With wireless remote controller	Accessory	● UTB-YWA	● UTB-YWB
	IR Receiver Kit		● UTY-LRHYA1 With wireless remote controller	● UTY-LRHYA1 With wireless remote controller	—	—	● UTY-LRHYB1
Centralized control system	Group Remote Controller		—	—	● UTB-YDB	● UTB-YDB	● UTY-CGGY
	Central Remote Controller		—	—	—	● UTB-YCA	—
	Touch panel Controller		—	—	—	—	● UTY-DTGY
	System Controller		—	—	—	● UTY-APGX	● UTY-APGX
Adaptor & Converter	Network Converter		—	—	● UTR-YGCA	● UTR-YRDA	● UTY-VGGX
	Network Converter for LONWORKS®		—	—	—	● UTR-YLLA	● UTY-VLGX
	BACnet® Gateway		—	—	—	● UTY-ABGX	● UTY-ABGX
	Signal Amplifier		—	—	—	● UTY-VSGX	● UTY-VSGX
	External Switch Controller		—	—	● UTR-YESA UTY-TEKX	● UTR-YESA UTY-TEKX	● UTY-TEKX
Service & Maintenance	Service Tool		—	—	—	● UTY-ASGX	● UTY-ASGX
	Web Monitoring Tool		—	—	—	● UTY-AMGX	● UTY-AMGX

# Comparison table of Controllers

Type	Individual control				Centralized control			
	Wired Remote Controller	Simple Remote Controller	Simple <sup>*1</sup> Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller (Software)
Model name								
	UTB-YUD UTB-YUB UTY-RNKY	UTB-YPB UTY-RSKY	UTB-YRA UTY-RHKY	UTB-YNA UTB-YVB UTY-LNHY	UTB-YDB UTY-CGGY	UTB-YCA	UTY-DTGY	UTY-APGX
Max. controllable remote controller groups	1	1	1	1	8	400	400	1600
Max. controllable indoor units	16	16	16	16	96	400	400	1600
Max. controllable groups	-	-	-	-	-	64	400	1600
Air conditioning control function	On / Off	●	●	●	●	●	●	●
	Operating mode setting	●	●	-	●	●	●	●
	Fan speed setting	●	●	●	●	●	●	●
	Room temp. setting	●	●	●	●	●	●	●
	Room temp. set point limitation	-	-	-	-	-	●	●
	Test operation	●	●	-	●	-	●	-
	Up/down air direction flap setting	●	-	-	●	-	●	●
	Right/left air direction flap setting	●	-	-	●	-	●	●
	Group setting	-	-	-	-	-	●	●
	RC prohibition	-	-	-	-	-	●	●
	Anti freeze setting	-	-	-	-	-	●	●
	Economy mode setting	●	-	-	●/— <sup>*3</sup>	-	●	●
Display	Failure	●	●	●	-	●	●	●
	Defrosting	●	●	●	-	-	●	●
	Current time	●	-	-	●	●	●	●
	Day of week	●	-	-	-	●	●	●
	R.C. prohibition	●	●	●	-	-	●	●
	Cooling/heating priority	●	●	●	-	●	●	●
	Address display	●	●	●	-	●	●	●
Timer	System schedule timer	-	-	-	-	-	●	●
	On/off per day	-	-	-	-	-	20	72
	On/off per week	-	-	-	-	-	140	504
	Weekly timer	●	-	-	-	●	●	-
	On/off per day	2	-	-	-	2	2	-
	On/off per week	14	-	-	-	14	14	-
	On/off timer	●	-	-	●	-	●	-
	Sleep timer	-	-	-	●	-	-	-
	Program timer	-	-	-	●	-	-	-
	Day off	●	-	-	-	-	●	●
Min. unit of timer setting(Minutes)	30	-	-	5	10	10	10	
Control	Status monitoring system	-	-	-	-	-	●	●
	Electricity charge calculation	-	-	-	-	-	-	●
	Error history	●	●	●	-	●	●	●
	Emergency stop	-	-	-	-	-	● <sup>*2</sup>	-
	Control via internet	-	-	-	-	-	-	●
	E-mail notification for malfunction	-	-	-	-	-	-	●

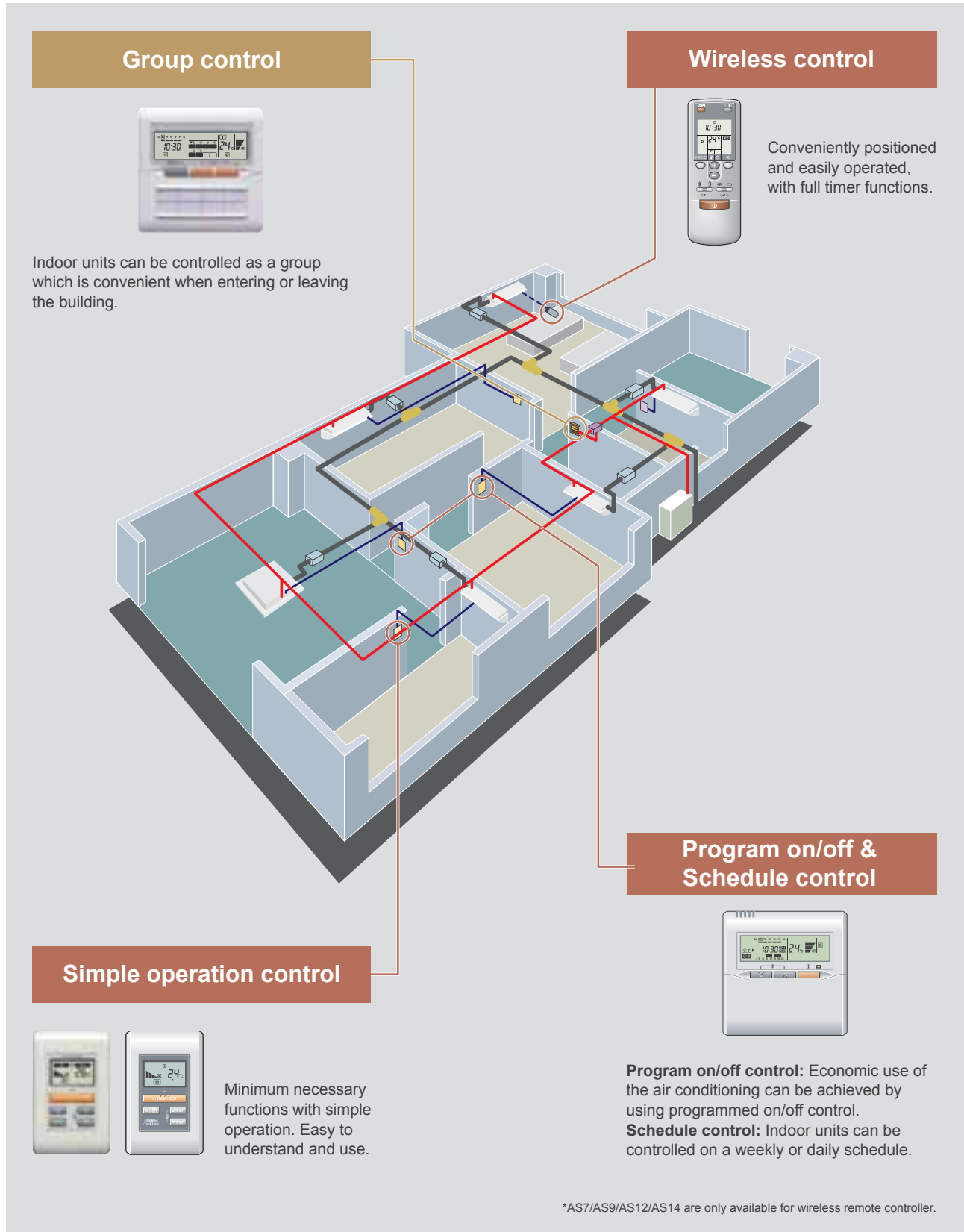
\*1 "Master control" setting is not available for this model.

\*2 This function is available only through external input. control.

\*3 For UTB-YVB, this function is not available.

## System function

Five types of controllers are available to meet the varied needs of the building and the user. Tighter control over the air conditioned environment can be achieved by combining group remote controller which can operate all the indoor units at the same time, a wired remote controller with a weekly or daily schedule, a wireless remote controller and a simple remote controller.



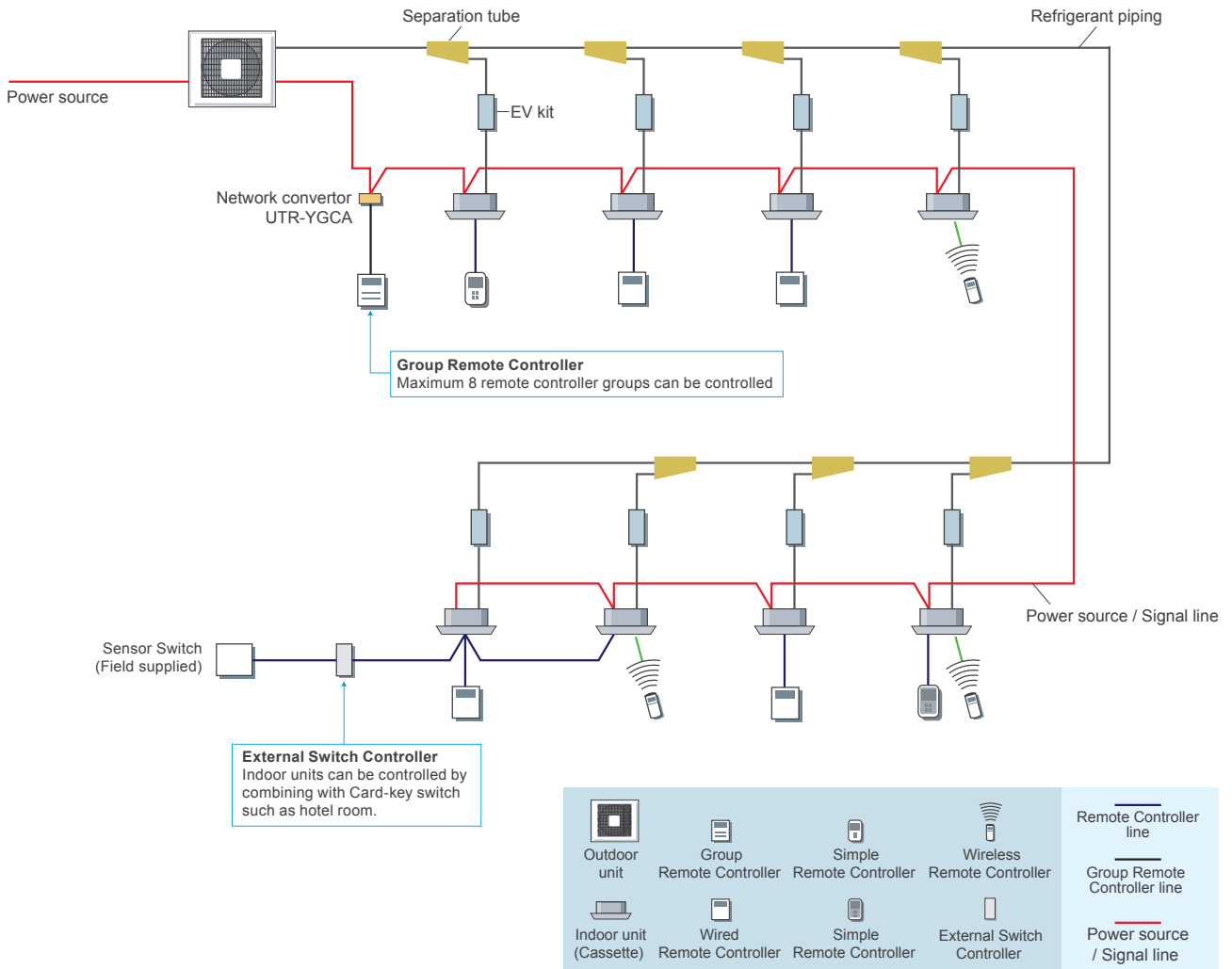


# System diagram

Max. connectable  
**8**  
indoor units

Max. piping length  
**70<sub>m</sub>**

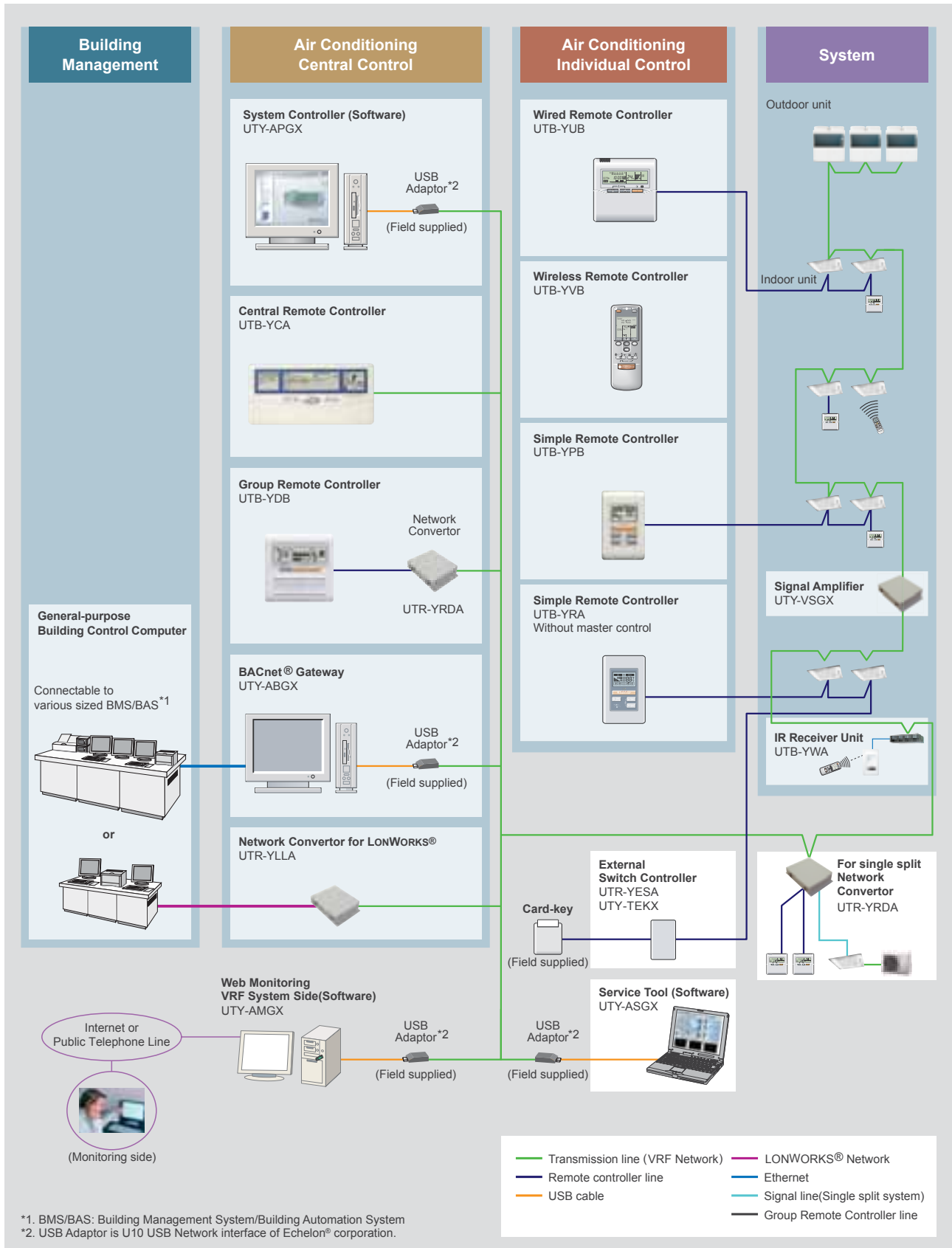
Max. total signal line  
**150<sub>m</sub>**



# Control Systems for S series

## System diagram

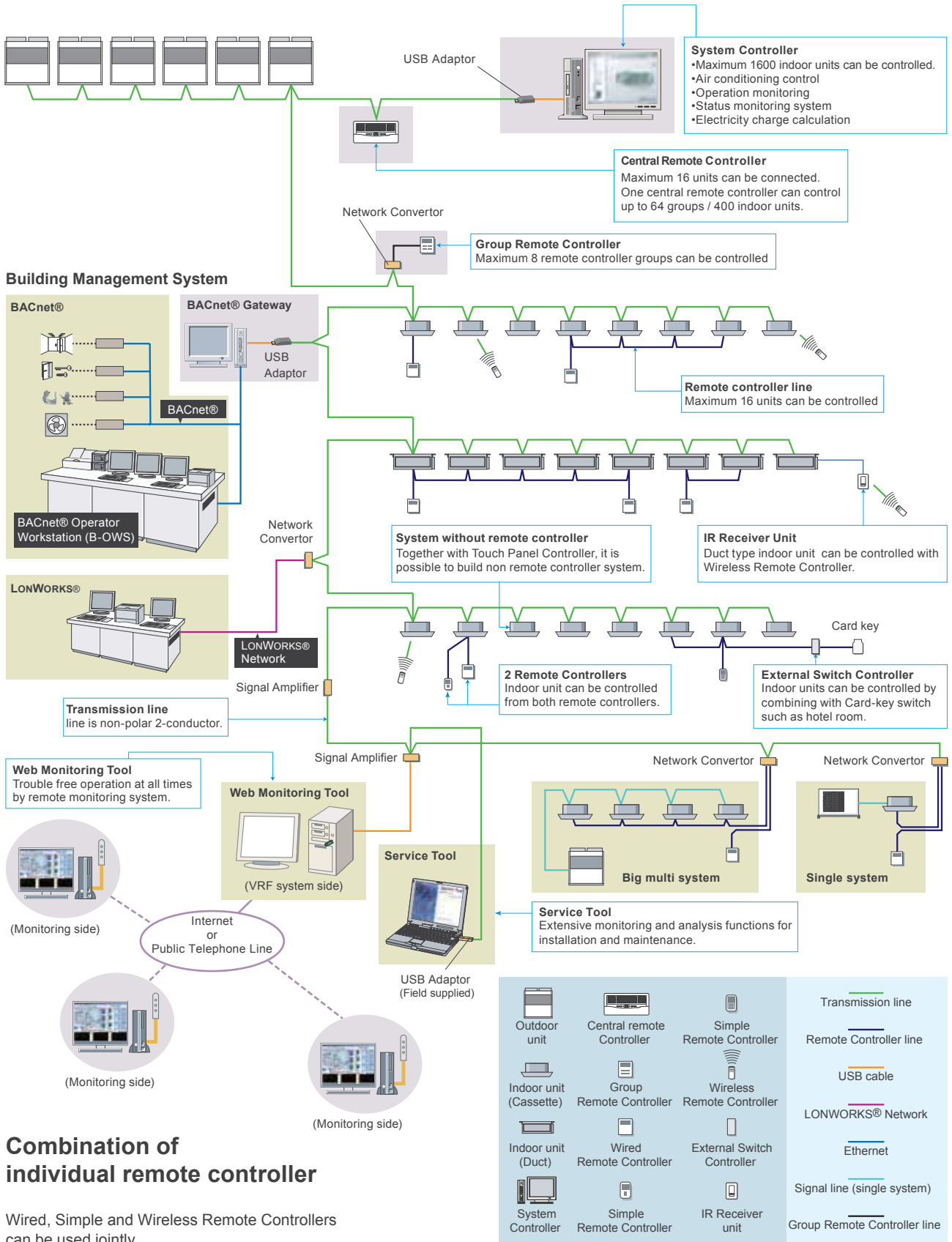
It supports every user's needs by offering a variety of control systems available, such as individual control, central control and building management system control options



Max. transmission line length  
**2,000m**

# 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 2000m (by using signal amplifiers).



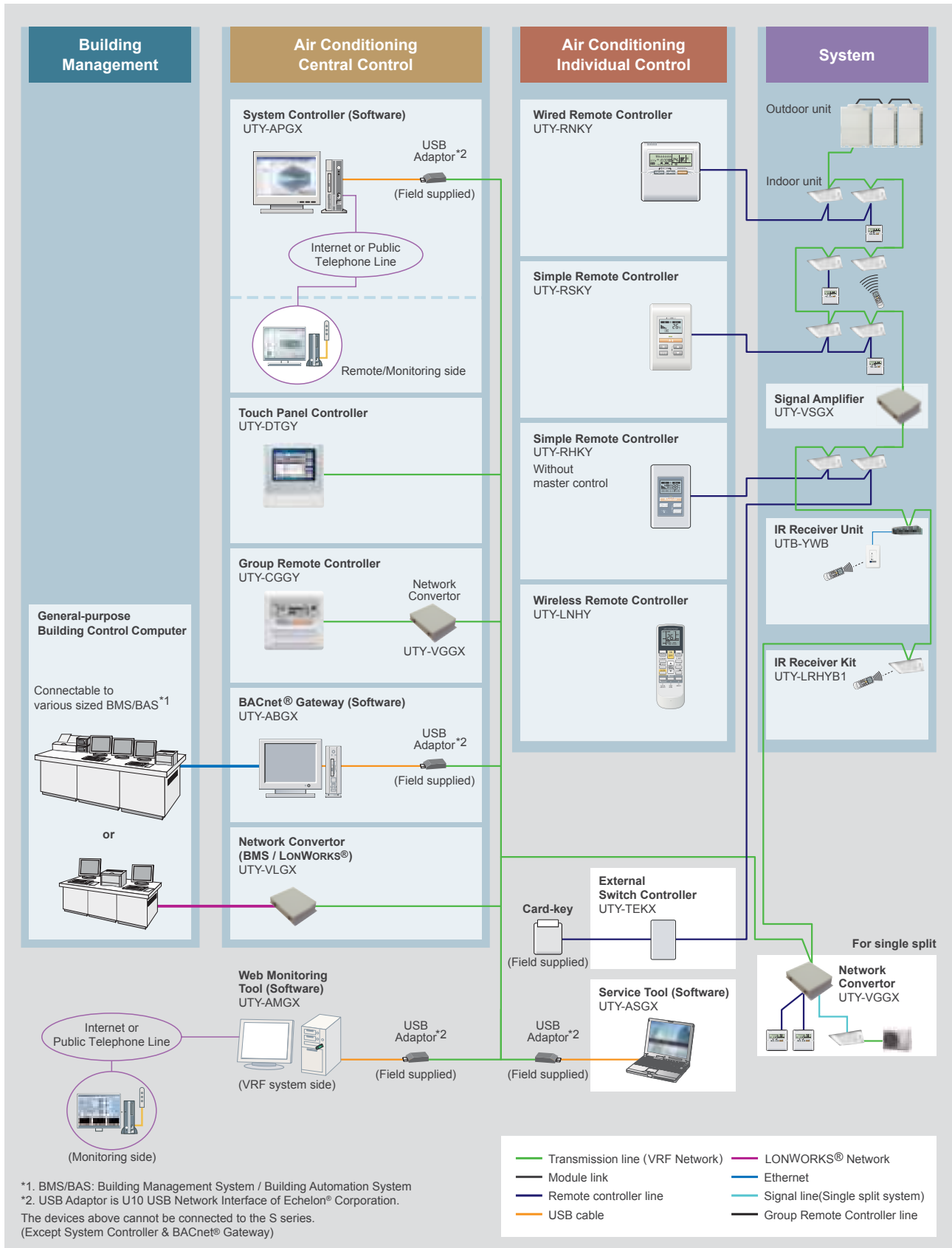
## Combination of individual remote controller

Wired, Simple and Wireless Remote Controllers can be used jointly.

# Control Systems for V-II series

## System diagram

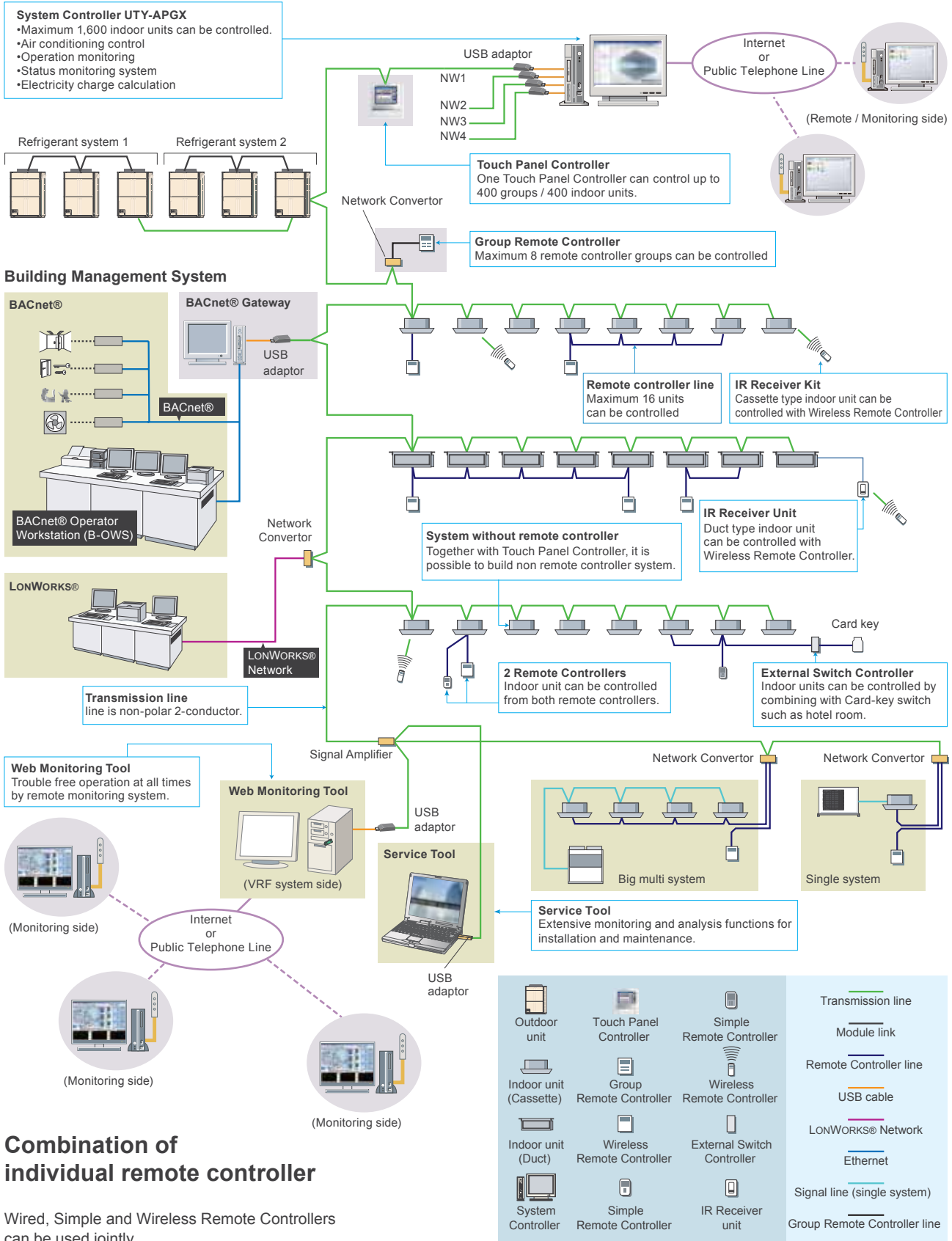
The V-II system supports every users needs by offering a variety of Control systems, including individual control, central control and building management control options.



Max. transmission line length  
**3,600<sub>m</sub>**

# 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).



# Controller

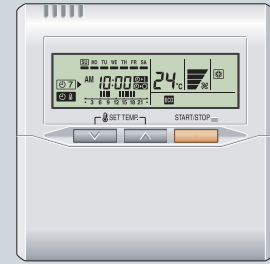
## Wired Remote Controller

UTB-YUD/UTB-YUB/UTY-RNKY

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

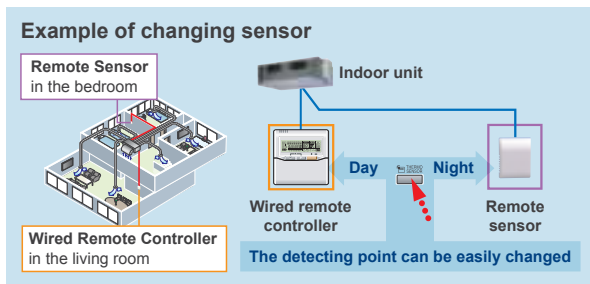
- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

Max. controllable  
**16**  
indoor units



### 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

**Weekly timer:** Possible to set ON/OFF time to operate twice each day of the week.

**Setback timer:** Possible to set temperature for two times spans and for each day of the week.

At "Weekly timer" + "Set back timer" setup

### Diagnosis check function

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

### Simple installation

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

## Simple Remote Controller

UTB-YPB/UTY-RSKY  
UTB-YRA/UTY-RHKY (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.

Max. controllable  
**16**  
indoor units



UTB-YPB/UTY-RSKY UTB-YRA/UTY-RHKY  
Without master control

### User-friendly operation

- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Background light enables easy operation in a darkened room.
- Following an error display, diagnostics can be carried out on the controller.



### Functions

Model	UTB-YPB/UTY-RSKY	UTB-YRA/UTY-RHKY
On / Off	●	●
Fan control	●	●
Master control	●	— *1
Room temp. setting	●	●

\*1: "Master control" setting is not available. It is recommend to use together with other type controller.

## Specifications

Model name	UTB-YUD/UTB-YUB/UTY-RNKY	UTB-YPB/UTY-RSKY	UTB-YRA/UTY-RHKY
Power Source	DC 12V	DC 12V	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 17	120 x 75 x 14	120 x 75 x 14
Weight (g)	160	90 (100 : UTY-RSKYT)	90 (100 : UTY-RHKYT)

DC12V is supplied by the indoor unit.

## Wireless Remote Controller

UTB-YNA/UTB-YVB/UTY-LNHY

Simple and sophisticated operations with a choice of 4 daily timers

•A single controller controls up to 16 indoor units.

Max. controllable  
**16**  
indoor units

Selectable  
**4**  
daily timers



UTB-YVB



UTB-YNA/UTY-LNHY

### Built-in timers

Select from 4 different timer programs:

On / Off / Program / Sleep

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

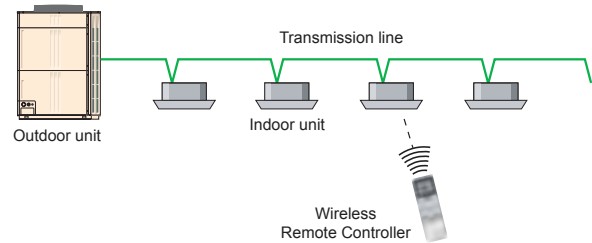
**Sleep timer:** The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

### 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.



## IR Receiver Unit

UTY-LRHY1/UTY-LRJY1/UTY-LRHYM/  
UTB-YWA/UTB-YWB

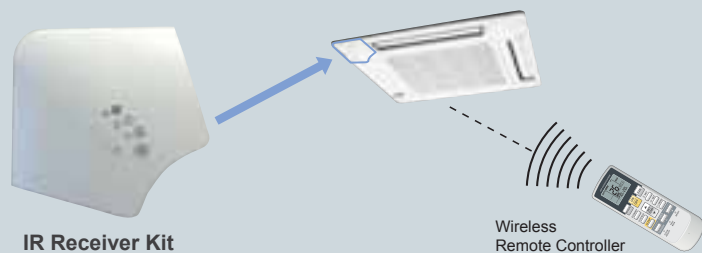
Necessary to control for all duct type by  
Wireless Remote Controller



## IR Receiver Kit

UTY-LRHYA1  
UTY-LRHYB1

Cassette type indoor unit can be controlled  
with Wireless Remote Controller



## Specifications

Model name	UTB-YNA/UTB-YVB/UTY-LNHY	UTY-LRHY1/UTY-LRJY1/UTY-LRHYM/UTB-YWA/UTB-YWB	UTY-LRHYA1/UTY-LRHYB1
Battery	1.5V (R03 / LR03 / AAA) x 2	DC 12V	DC 12V
Dimensions (H x W x D) (mm)	158 x 56 x 20	122 x 60 x 26.5	213.8 x 213.8x 25.7
Weight (g)	70	150	140



# Controller

## Group Remote Controller

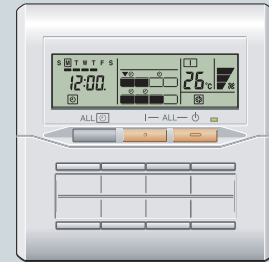
UTB-YDB / UTY-CGGY

Group control of indoor units with simple operation

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

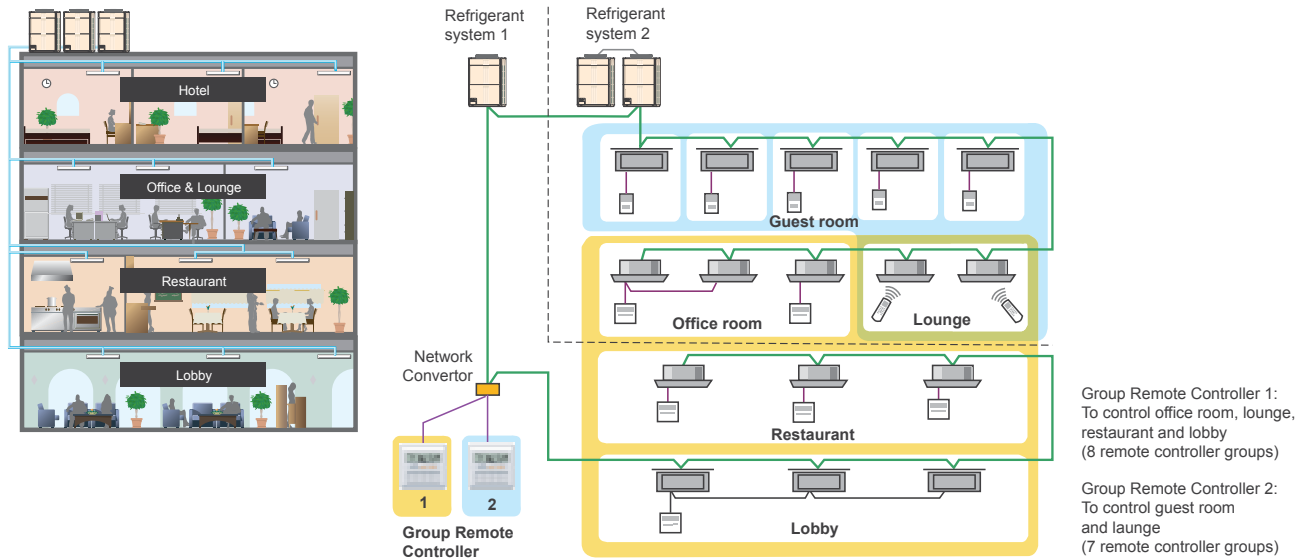
Max. controllable  
**64**  
group R.C. in a VRF  
network system

Max. controllable  
**8**  
remote  
controller groups



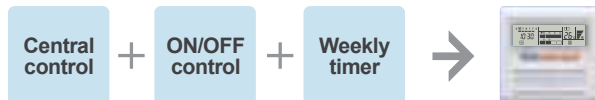
## Control up to 8 remote controller groups

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



## High performance and compact size

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



## Built-in weekly timers

The weekly timer is provided as a standard function.

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.

## Specifications

Model name	UTB-YDB / UTY-CGGY
Power Source	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 17
Weight (g)	200

DC12V is supplied by a network converter.

# Central Remote Controller

## UTB-YCA

### Functionality in a compact housing with built-in weekly timer

- Up to 400 indoor units / 400 remote controller groups / 64 groups can be controlled by one system.
- Up to 16 central remote controllers can be connected into one system allowing operation and monitoring to be achieved from the central control room, at each floor, by each tenant, or in the plant room.

Max. controllable  
**400**  
indoor units

Max. controllable  
**400**  
remote controller groups

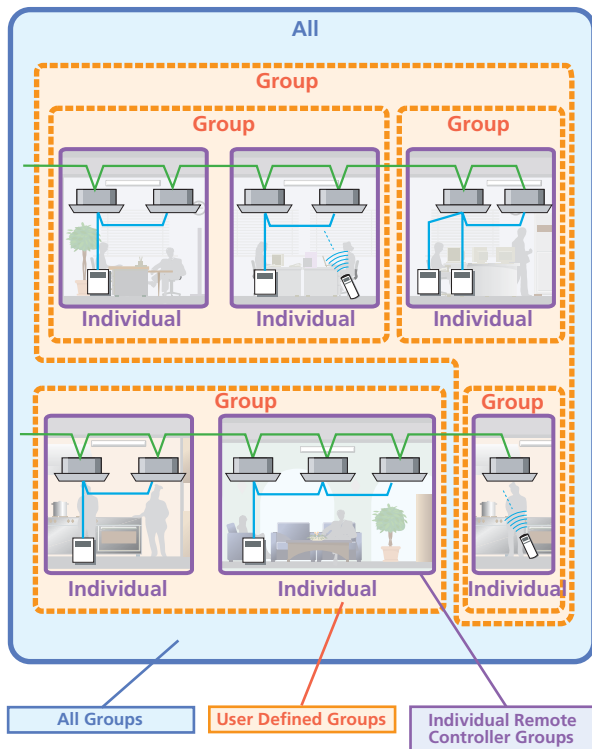
Max. controllable  
**64**  
groups



## Control up to 400 indoor units

- The central remote controller performs system control after you select All Groups, User Defined Groups, or Individual Remote Controller Groups.
- Accurate control of functions such as Start / Stop, Operating Mode, Temperature, and Air Velocity ensures occupancy comfort.

### Controllable method

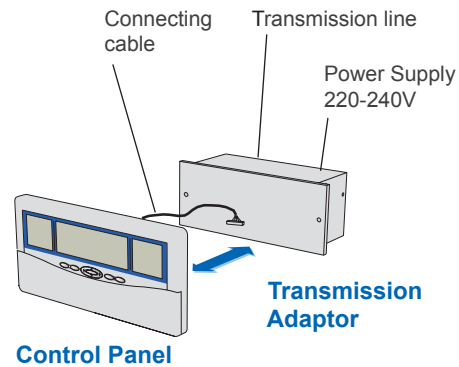


## Central control

Any of 6 functions of the individual remote controller can be locked from the Central Remote Controller: all functions, timer mode, operating mode, temperature setting, filter reset, on/off. All functions can be controlled via the Central Remote Controller only.

## Easy Installation

- The controller can be installed on any flat surface.
- The control panel and transmission adaptor can be installed separately.
- For flexibility in installation, the main unit can be built into the wall or exposed.



## Functions

- Built-in weekly timer
- Memory functions
- Error display

## Specifications

Model name	UTB-YCA	
	Control Panel	Transmission Adaptor
Power Source	DC 12V	220-240V 50-60Hz Single phase
Power Consumption (W)	4.8	
Fuse Capacity (A)	3	
Dimensions (H x W x D)(mm)	143 x 296 x 22	107 x 288 x 100
Weight (g)	550	1,300

### PACKING LIST

Packing List	Control Panel / Transmission Adaptor / Connecting Cable
--------------	---

# Controller

## Touch Panel Controller

Max. controllable  
**400**  
indoor units



### UTY-DTGY

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

## Easy operation

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

## Functions



Individual control



Flexible grouping



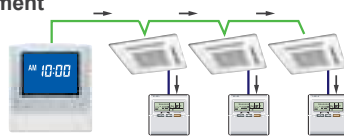
Schedule control



Indoor units operation monitoring

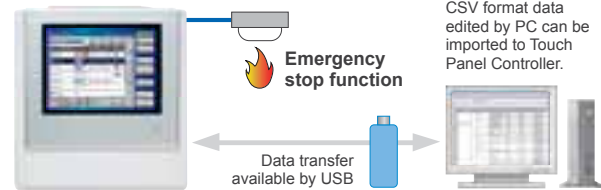
### Automatic clock adjustment

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



## Versatility

- **Emergency stop function:** Air conditioner can be turned off through the external input control
- The stored data can be transferred via USB port
- CSV format data edited by PC can be imported to Touch Panel Controller.



## Easy installation

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



## Specifications

Model name	UTY-DTGY
Power Source	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

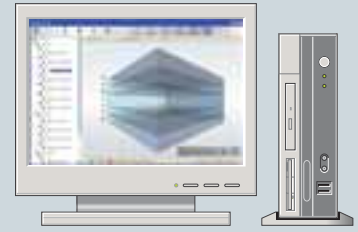
This system realizes the advanced general monitoring and control of VRF network system from small scale buildings to large scale buildings.

- Supports VRF S series and V-II series.
- Air conditioning precision control, central control, electricity charge calculation, schedule management, and energy saving function

Max. controllable  
**4**  
VRF network systems

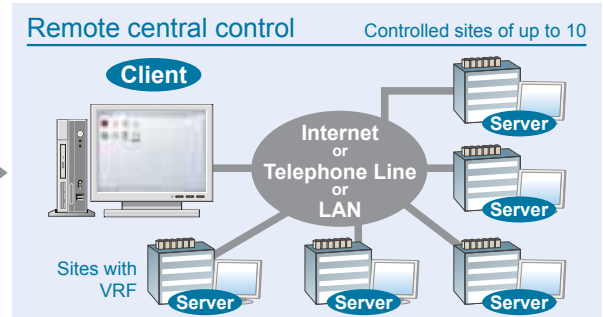
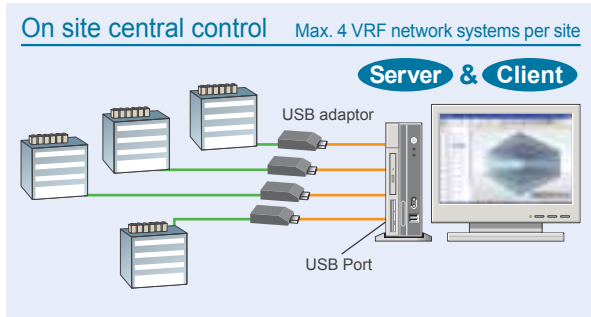
Max. controllable  
**400**  
outdoor units

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



## 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 network 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 network system sites with max. 20 buildings per site.



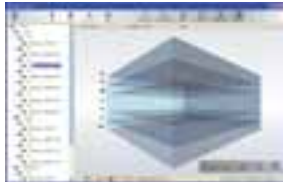
## User friendly view and operation

Monitoring located site



Monitor mode (Site)

Main operation monitoring screen



Monitor mode (Building)

Operation monitoring of each site



Monitor mode (Floor)



Monitor mode (List)

Management functions



Schedule setting

## Functions

- Electricity charge calculation
- Error display
- Diverse control of indoor units
- Schedule control
- Operating & control record
- Energy saving function

## Specifications

Model name	UTY-APGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®
Operating System	Microsoft® Windows Vista® Home Premium, Business    Microsoft® Windows® XP Professional with Service Pack 2 or later
CPU	Intel® Pentium® / Celeron 2 GHz (Server), 1 GHz (Client) or higher
HDD	40 GB or more of free space (5 GB for Client PC)
Memory	2 GB or more (Server), 1 GB or more (Client)
Interface	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.
Accelerator	Requires the internal graphics accelerator be compatible with Microsoft® DirectX® 9.0
Other Software Required	Adobe® Reader® 9.0 or later

### PACKING LIST

CD-ROM / Wibe Key	Includes the software for System Controller. Both server and client software is included.
-------------------	---

Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.  
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number: 75010R

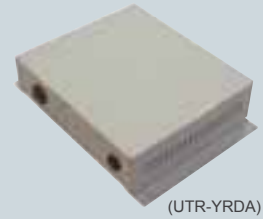
# Adaptor & Converter

## Network Converter

Max. controllable  
**16**  
Network  
Converter units

UTR-YRDA / UTY-VGGX / UTR-YGCA

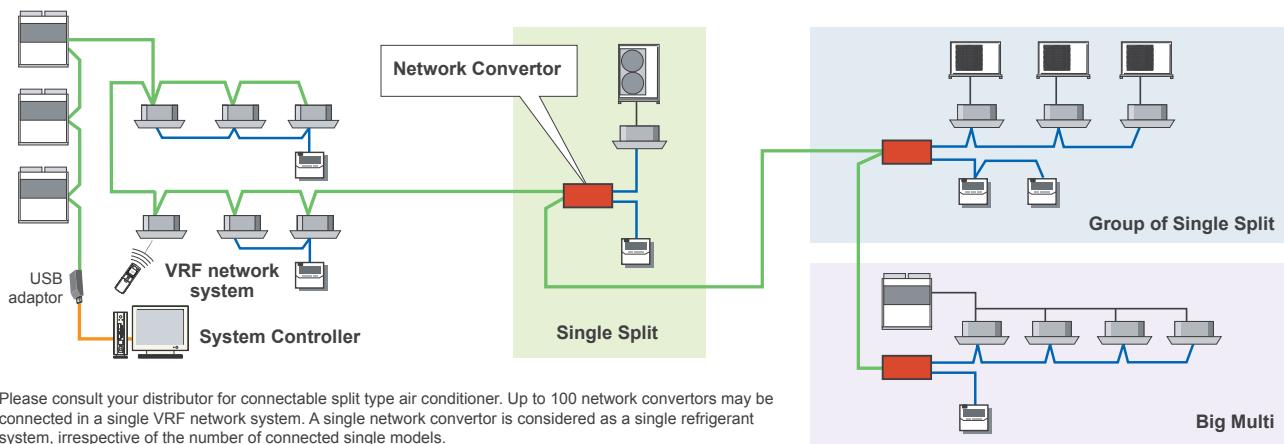
- This network converter is to be used for connecting single split system or group remote controller with the VRF network system.
- Please select the function by switching the dip switch during the installation.



(UTR-YRDA)

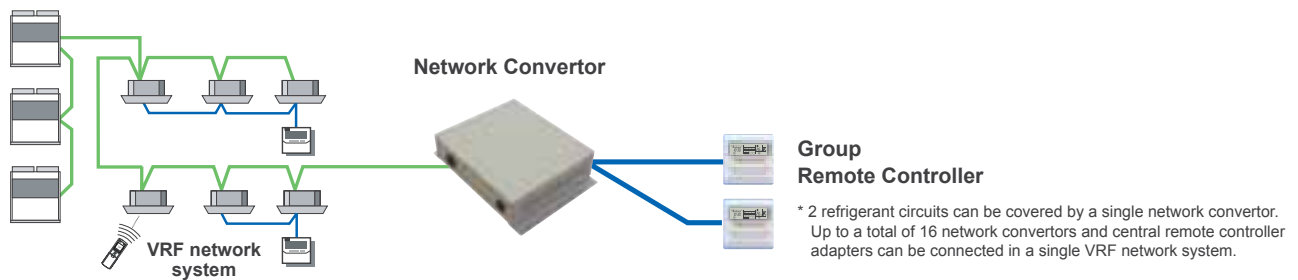
### Installation example

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



### Used for connecting Group Remote Controller

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



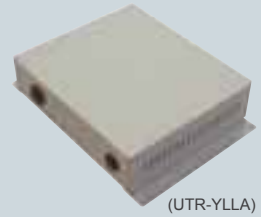
## Specifications

Model name	UTR-YRDA / UTY-VGGX / UTR-YGCA
Power Source	50-60Hz 220-240V
Power Consumption (W)	8.5
Dimensions (H X W X D) (mm)	67 x 288 x 211
Weight (g)	1,500

# Network Converter for LONWORKS®

Max. controllable  
**4**  
Units to BMS

Max. controllable  
**128**  
indoor units

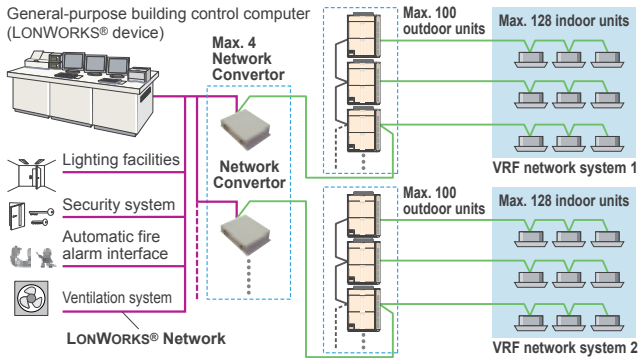


(UTR-YLLA)

## UTR-YLLA / UTY-VLGX

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

### Installation example



### Transmission specifications (BMS side)

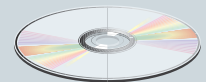
Transmission speed	78kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

# BACnet® Gateway Software

Max. controllable  
**4**  
VRF network systems

Max. controllable  
**400**  
outdoor units

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



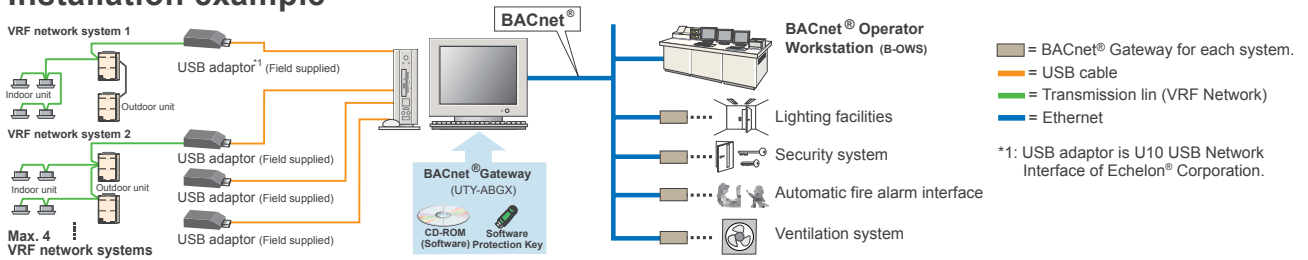
CD-ROM (Software)



Software Protection Key

- The VRF network 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® 135-2004 BACnet® Application Specific Controller (B-ASC) BACnet® / IP over Ethernet.
- Connects up to 4 VRF network systems (1,600 indoor units / 400 outdoor units) per gateway.
- Supports VRF S series and V-II series

### Installation example



## Specifications

Model name	UTR-YLLA / UTY-VLGX
Power Source	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

Model name	UTY-ABGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®
Operating System	Microsoft® Windows Vista® Home Premium, Business (English version) Microsoft® Windows® XP Professional (English version / Service Pack 3 or later)
CPU	Intel® Pentium® / Celeron 2 GHz or higher
HDD	40 GB or more of free space
Memory	2 GB or more
Interface	USB port is required for each of the followings; • Wibu Key (Software protection key) • Echelon® U10 USB Network Interface (Required for each VRF Network) Ethernet port is required
Other Software Required	Adobe® Reader® 9.0 or later

#### PACKING LIST

Packing List	CD-ROM / Wibu Key
--------------	-------------------

Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.  
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number: 75010R

# Adaptor & Converter, Service & Maintenance

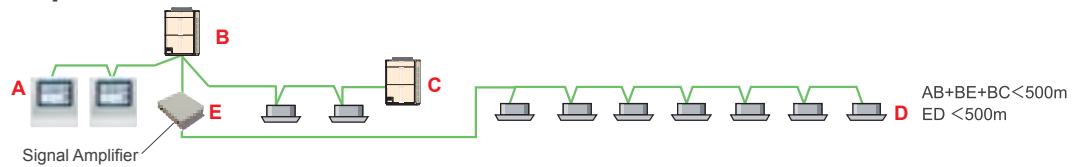
## Signal Amplifier

### UTY-VSGX

- Transmission Line length can be extended up to 3,600m for V-II series (2,000m for S series) with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
  - (1) When the total wiring length of the transmission line exceeds 500m.
  - (2) When the total number of units on the transmission line exceeds 64.



### Installation example

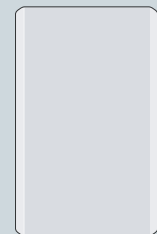


## External Switch Controller

### UTR-YESA / UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

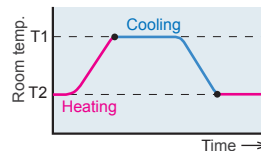
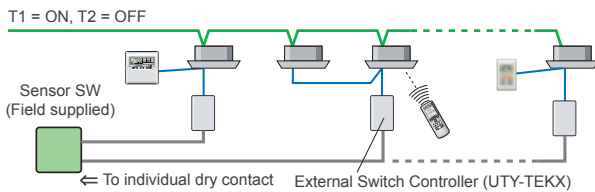
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are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



### Installation example

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

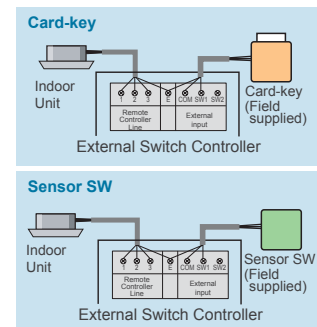
Note: All indoor units will operate in the same mode.



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

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

### Electrical wiring



## Specifications

Model name	UTY-VSGX
Power Source	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

Model name	UTR-YESA / UTY-TEKX
Power Source	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

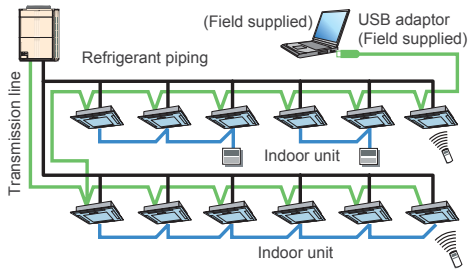
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
-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

Max. Monitor and control  
**400**  
indoor units

Max. Monitor and control  
**100**  
outdoor units



## Wiring connection



## Functions

### •Equipment Detail (Diagram)



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

## Web Monitoring Tool Software

### UTY-AMGX

#### Product features

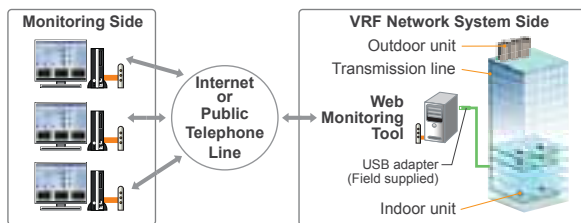
- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet\*1.
- Requires either a dedicated internet connection\* or public telephone line.
- Determination 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.
- Supports VRF S series and V-II series

VRF network system  
can be supported  
**4**

**1,600**  
indoor units  
can be supported

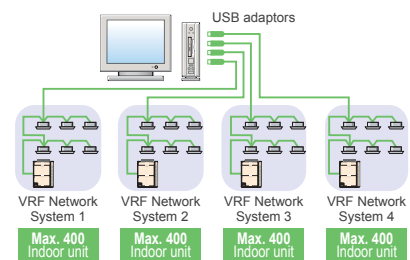
\*1: USB of internet mail system required.

## Web Monitoring System



## Support 4 VRF network systems

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



## Specifications

Model name	UTY-ASGX	UTY-AMGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®	
Operating System	Microsoft® Windows® 2000 Professional (English version / Service pack 4 or later), XP Professional (English version / Service pack 2 or later) Microsoft® Windows Vista® Home Premium, Business	
CPU	Intel® Pentium® / Celeron®, AMD Athlon™ / Duron™ 1 GHz or higher	
HDD	4.1 GB or more of free space	
Memory	1 GB (Vista) , 512 MB (XP / 2000) or more	1 GB 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)	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	Internet Explorer 6.0 or later / Adobe® Reader® 9.0 or later	
Hardware	USB Adaptor is U10 USB Network interface of Echelon® corporation.	











### PACKING LIST

Packing List	CD-ROM / Wibu Key
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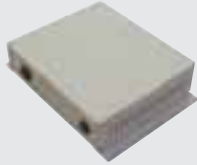
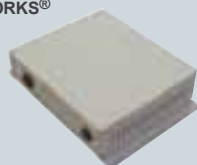
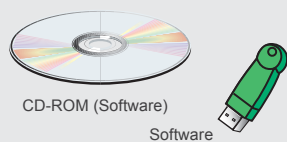

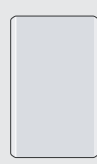
Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.  
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number: 75010R

# Optional Parts

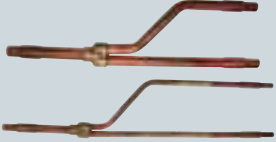



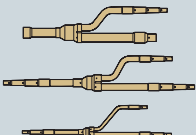

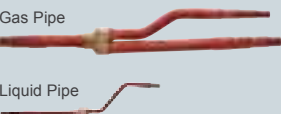

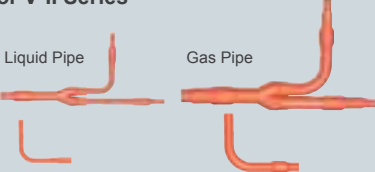





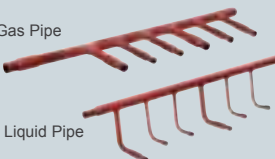

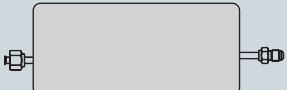
## Controllers

<p><b>System Controller</b></p>  <p>UTY-APGX</p>	<p><b>Touch Panel Controller</b></p>  <p>UTY-DTGY</p>	<p><b>Central Remote Controller</b></p>  <p>UTB-YCA</p>
<p><b>Group Remote Controller</b></p>  <p>UTB-YDB / UTY-CGGY</p>	<p><b>Wired Remote Controller</b></p>  <p>UTB-YUD</p>	<p><b>Wired Remote Controller</b></p>  <p>UTB-YUB / UTY-RNKY</p>
<p><b>Simple Remote Controller</b></p>  <p>UTB-YPB / UTY-RSKY With master control</p>	<p><b>Simple Remote Controller</b></p>  <p>UTB-YRA / UTY-RHKY Without master control</p>	<p><b>Wireless Remote Controller</b></p>  <p>UTB-YVB</p>
<p><b>Wireless Remote Controller</b></p>  <p>UTB-YNA / UTY-LNHY</p>		

## Adaptors/Convertors



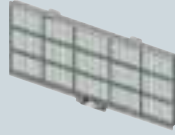








<p><b>Network Converter</b></p>  <p>UTR-YRDA / UTR-YGCA / UTY-VGGX</p>	<p><b>Network Converter for LONWORKS®</b></p>  <p>UTR-YLLA / UTY-VLGX</p>	<p><b>BACnet® Gateway</b></p>  <p>CD-ROM (Software) Software Protection Key UTY-ABGX</p>
<p><b>Signal Amplifier</b></p>  <p>UTY-VSGX</p>	<p><b>External Switch Controller</b></p>  <p>UTR-YESA / UTY-TEKX</p>	

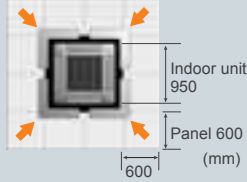
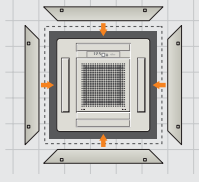
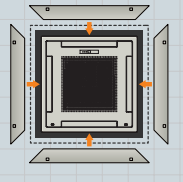
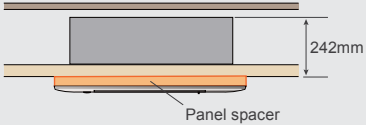

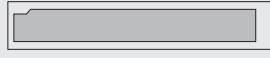
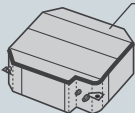


# Connection Units









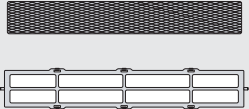


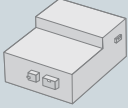
<p><b>Separation Tube</b> For 3-phase simultaneous multi</p>  <p>UTP-SX236A</p>	<p><b>Separation Tube</b> For 3-phase simultaneous multi</p>  <p>UTP-SX254A</p>	<p><b>Separation Tube</b> For 3-phase simultaneous multi</p>  <p>UTP-SX354A</p>
<p><b>Separation Tube</b> For J series Separation tubes are available for installation as necessary.</p>  <p>UTR-BP54U / UTR-BP054X</p>	<p><b>Separation Tube</b> For S series Separation tubes are available for installation as necessary.</p>  <p>UTR-BP54MA / UTR-BP90MA</p>	<p><b>Separation Tube</b> For V-II Series</p>  <p>Gas Pipe</p> <p>Liquid Pipe</p> <p>UTR-BP090X</p>
<p><b>Separation Tube</b> For V-II Series</p>  <p>Gas Pipe</p> <p>Liquid Pipe</p> <p>UTR-BP180X</p>	<p><b>Separation Tube</b> For V-II Series</p>  <p>Gas Pipe</p> <p>Liquid Pipe</p> <p>UTR-BP567X</p>	<p><b>Outdoor Unit Branch Kit</b> For V-II Series</p>  <p>Liquid Pipe</p> <p>Gas Pipe</p> <p>UTR-CP567X</p>
<p><b>RB (Refrigerant Branch) Unit</b> For S series</p> <p>Single type</p>  <p>UTF-Y54A1A</p>	<p><b>RB (Refrigerant Branch) Unit</b> For S series</p> <p>Multi type</p>  <p>UTF-Y90A4A</p>	<p><b>Header</b> For J series Headers are available for installation as necessary.</p>  <p>UTR-HD546U</p>
<p><b>Header</b> For S series Headers are available for installation as necessary. *Reducer is attached to each header kit.</p>  <p>UTR-HD906R</p>	<p><b>Header</b> For S series Headers are available for installation as necessary. *Reducer is attached to each header kit.</p>  <p>UTR-HD908R</p>	<p><b>Header</b> For V-II Series</p>  <p>Gas Pipe</p> <p>Liquid Pipe</p> <p>UTR-H0906L / UTR-H1806L</p>
<p><b>Header</b> For V-II Series</p>  <p>Gas Pipe</p> <p>Liquid Pipe</p> <p>UTR-HD908L / UTR-H1808L</p>	<p><b>EV Kit</b> For J series EV kit is available for installation as necessary.</p>  <p>UTR-EV2AXL / UTR-EV3XL</p>	

# Optional Parts

## Others

For Duct type		
<b>Flange(Round)</b>  UTD-RF204	<b>Flange(Square)</b>  UTD-SF045T	<b>Long-Life Filter</b>  UTD-LF25NA
<b>Long-Life Filter</b>  UTD-LF60KA	<b>Drain Pump Unit</b>  UTZ-PX1BBA/UTZ-PX1NBA	<b>Remote Sensor Unit</b> New amenity space can be offered by installing the Remote sensor in the remote controller.  UTD-RS100
<b>IR Receiver Unit</b>   OR  UTY-LRJY1    UTY-LRHY1 UTY-LRHYM	<b>IR Receiver Unit</b>  UTB-YWA / UTB-YWB	<b>External Control Set</b> Use to connect with various peripheral devices and air conditioner PC board.  UTD-ECS5A

For Cassette type		
<b>Wide Panel</b>  Indoor unit 950 Panel 600 (mm) 600 UTG-AGYA-W	<b>Additional Grille</b>  UTG-AGDA-W	<b>Additional Grille</b>  UTG-AGEA-W
<b>Panel Spacer</b>  242mm Panel spacer UTG-BGYA-W	<b>Air Outlet Shutter Plate</b> Shuts the air outlet when only using as 2 or 3 blow out.  UTR-YDZC	<b>Air Outlet Shutter Plate</b> Shuts the air outlet when only using as 2 or 3 blow out.  UTR-YDZB
<b>Insulation Kit For High Humidity</b>  Insulation Kit UTZ-KXGA/UTZ-KXGC	<b>IR Receiver Kit</b>  UTY-LRHYA1	<b>IR Receiver Kit</b>  UTY-LRHYB1

<p><b>Grille Kit</b></p>  <p>UTG-UDYD-W</p>	<p><b>Grille Kit</b></p>  <p>UTG-UFYC-W</p>	<p><b>Grille Kit</b></p>  <p>UTG-UGYA-W</p>
<p><b>Fresh Air Intake Kit</b> For Compact Cassette type</p>  <p>UTY-VXAA</p>	<p><b>Fresh Air Intake Kit</b> For Cassette type</p>  <p>UTY-VXGA</p>	
<p><b>For Ceiling type</b></p> <p><b>Drain Pump Unit</b></p>  <p>UTR-DPB24T</p>	<p><b>For Floor type</b></p> <p><b>Half Concealed Kit</b></p> <p>This kit is used to half conceal floor type indoor unit into the wall.</p>  <p>UTR-STA</p>	<p><b>For Wall Mounted / Floor / Cassette / Ceiling / Duct type</b></p> <p><b>External Indication Kit</b></p>  <p>UTY-XWZX / UTU-XWZX2</p>
<p><b>For Wall Mounted type</b></p> <p><b>Air Clean Filter</b></p> <p>Air clean filter assembly for initial setting.</p>  <p>UTR-FA08</p>	<p><b>Air Clean Filter</b></p>  <p>UTR-FB03</p>	<p><b>EV Kit</b></p> <p>For without EV Kit model (V-II series)</p>  <p>UTR-EV09XA / UTR-EV14XA UTR-EV09XB / UTR-EV14XB</p>
<p><b>Sub Interface Board</b></p>  <p>UTU-XCBXE</p>		

# Energy Recovery Ventilator

Suppresses indoor temperature changes while providing fresh air

High efficiency and low noise are achieved using a highly efficient element. Comfortable air-conditioned environment is provided by effectively determining whether to use heat-exchange ventilation or normal ventilation while meeting diverse needs.



## Energy saving ventilation

*Thanks to efficient recovery of thermal energy lost during Ventilation, you can save an air-conditioning fee.*

## Facility saving

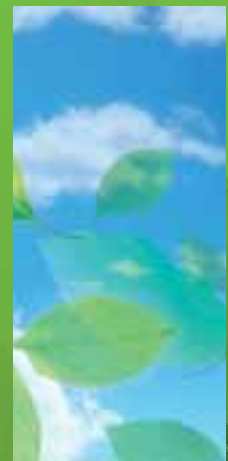
*Thanks to a drastic reduction of load incurred by outside air, you can make air-conditioners more compact in parallel with the recovery of thermal energy.*

## Humidity adjusting effect

*In a cooling mode, a highly humid open-air is brought near to a dehumidified room atmosphere and then supplied.  
In a heating mode, a room humidity is transferred to the dry outside air and then supplied.*

## Sound shield effect

*The ducts of the unit and the heat exchange element are characteristic of sound shield effect, so that the office and store environment can be preserved.*



**More Comfortable** Air Conditioning  
Energy Recovery Ventilator





# Energy Recovery Ventilator

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



UTZ-BX025A



UTZ-BX035A



UTZ-BX050A

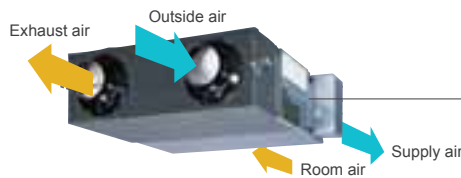


UTZ-BX080A



UTZ-BD100A

Adopts a highly efficient counter-flow heat exchange element



## Heat exchange ventilation and normal ventilation

### Heat exchange ventilation

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

### Normal ventilation

This is used in the spring and autumn, when rooms are not cooled or heated, that is, when there is little difference between the indoor and outdoor air conditions. In addition, at night during the hot season, when the outside air temperature drops the outside air is drawn inside without heat exchange, alleviating the load on the air conditioning equipment.

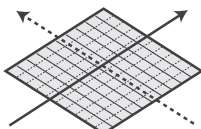
## High Efficiency

### Energy efficiency and ecology

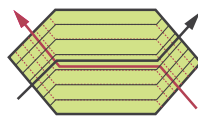
**20%**  
Energy saving

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

### Features of heat exchange element



Other element  
(Cross-flow element)



Fujitsu element  
(Counter-flow element)

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

## More Comfort

### Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation of 32 dB (High) or less for models with a capacity of 500 m<sup>3</sup>/h or less, and 37.5 dB (High) for models with a capacity of 1,000 m<sup>3</sup>/h.

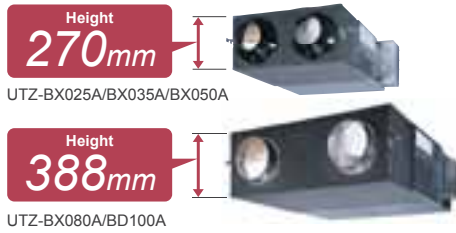
### Long heat-exchanger service life

Cleaning reduced due to the special material heat exchanger. The nylon/polyester fibre filter offers high dust retention capacity.

# Easy Installation and Maintenance

## Slim shape and easier installation

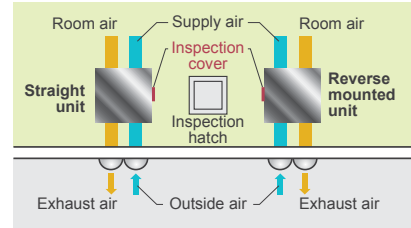
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



## Reverse mountable direct air supply / exhaust system

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

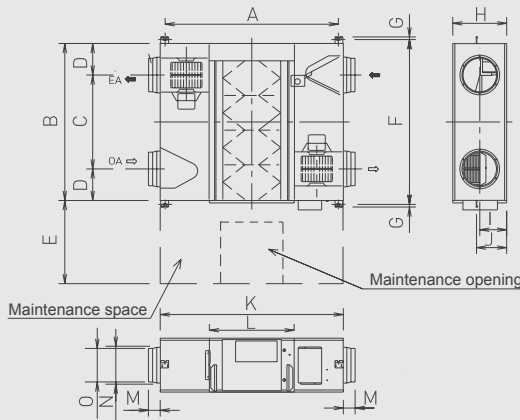
**Since each unit can be mounted in reverse position, only one inspection hole is needed for two units:** Two units can share one inspection hole so duct work is easier and more flexible.



## Dimensions

Models: UTZ-BX025A / UTZ-BX035A / UTZ-BX050A / UTZ-BX080A / UTZ-BD100A

(Unit : mm)



	UTZ-BX025A	UTZ-BX035A	UTZ-BX050A	UTZ-BX080A	UTZ-BD100A
A	810	810	890	1,250	1,250
B	599	804	904	884	1,134
C	315	480	500	428	678
D	142	162	202	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	270	270	388	388
I	135	145	145	194	194
J	159	159	159	218	218
K	882	882	962	1,322	1,322
L	414	414	414	612	612
M	95	95	107	85	85
N	219	219	246	258	258
O	144	144	194	242	242

## Specifications

Rated flow rate			250 m³/h	350 m³/h	500 m³/h	800 m³/h	1000 m³/h	
Model No.			UTZ-BX025A	UTZ-BX035A	UTZ-BX050A	UTZ-BX080A	UTZ-BD100A	
Power source			220-240V , 50Hz					
HEAT EXCHANGE VENTILATION	Input power	(Extra high)/High/Low	W	119 / 99 / 79	154 / 124 / 117	214 / 169 / 151	347 / 309 / 302	445 / 360 / 332
	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 170	350 / 350 / 280	500 / 500 / 370	800 / 800 / 650	1,000 / 1,000 / 810
	External static pressure	(Extra high)/High/Low	Pa	90 / 80 / 37	95 / 65 / 42	105 / 70 / 38	140 / 110 / 70	90 / 55 / 35
	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 77	75 / 75 / 77	75 / 75 / 76	75 / 75 / 76
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 66	66 / 66 / 69	62 / 62 / 67	65 / 65 / 68	65 / 65 / 68
	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 73	69 / 69 / 71	67 / 67 / 71	71 / 71 / 74	71 / 71 / 73
NORMAL VENTILATION	Sound pressure level	(Extra high)/High/Low	dB*	28 / 26 / 21	32 / 29 / 25	34 / 31 / 25	38 / 36.5 / 32	37.5 / 36 / 31
	Input power	(Extra high)/High/Low	W	119 / 98 / 79	151 / 119 / 113	210 / 161 / 145	337 / 300 / 297	438 / 358 / 329
	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 170	350 / 350 / 280	500 / 500 / 370	800 / 800 / 650	1,000 / 1,000 / 810
	External static pressure	(Extra high)/High/Low	Pa	90 / 80 / 37	95 / 65 / 42	105 / 70 / 38	140 / 110 / 70	90 / 55 / 35
	Sound pressure level	(Extra high)/High/Low	dB*	27 / 26.5 / 21.5	31 / 30 / 26	34 / 32 / 26.5	38.5 / 37 / 33	38 / 36.5 / 31.5
	Dimensions	W×D×H	mm	882×599×270	882×804×270	962×904×270	1,322×884×388	1,322×1,134×388
Weight		kg	29	37	43	71	83	
Outlet duct diameter		mm	150	150	200	250	250	
Operation range		°C	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40	
Maximum humidity		%	85	85	85	85	85	

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

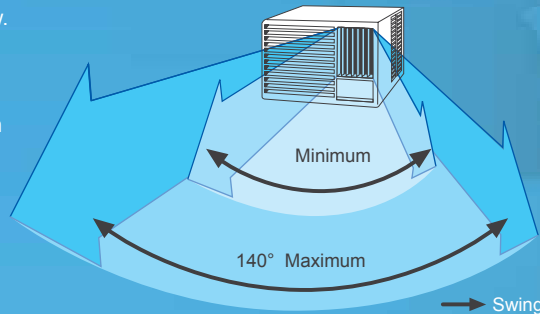
# Window

Quickly transforms your room into an oasis



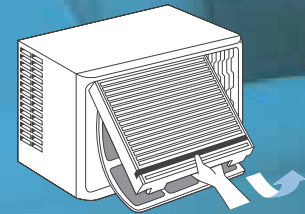
## The Airflow Direction can be Freely Adjusted

Unrestricted direction of airflow. The louver allows airflow coverage as wide as 140°. Mounting the louver in the center provides coverage of an area as wide as 140°. Cold or warm air is distributed throughout the room.



## Easy filter cleaning

The filter can be cleaned without removing the front panel.



For AFY Models

## Specifications

Model No.			AKY9UB	AMY12UA	AFY16UA	
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	
Capacity	Cooling	kW	2.80	3.45	4.55	
	Heating		2.90	3.60	4.30	
Power Consumption	Cooling/Heating		1.05/0.93	1.40/1.30	1.81/1.62	
EER - Energy Class	Cooling	W/W	2.67-D	2.46-E	2.51-E	
COP - Energy Class	Heating		3.12-D	2.77-E	2.65-E	
Running Current	Cooling/Heating		4.7/4.2	6.2/5.8	8.0/7.2	
Moisture Removal			l/h	1.1	2.1	
Noise (Indoor)	Cooling	H/L	dB(A)	50.5/41.5	52/48	56.5/51.5
Air Flow (High)	Indoor / Outdoor		m³/h	350	530	620
Net Dimension H x W x D			mm	349x457x581	375x560x650	400x660x633
			kg(lbs)	33(73)	45(99)	61(134)
Operation Range	Cooling	°CDB	21~43	21~43	21~43	
	Heating		0~21	0~21	0~21	
Refrigerant			R410A	R410A	R410A	
Feature	Super Power		—	●	●	
	Super Quiet		●	●	●	
	Super Wave		●	●	●	
	Instant Air Exchange		●	●	●	

**Compact, High Power, and Low Noise**  
Window type Air Conditioners



AKY9UB



AMY12UA



AFY16UA

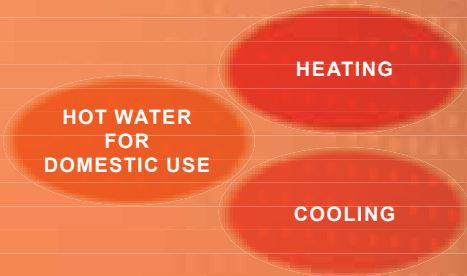


# Air to Water

**WATERSTAGE™** is an Economical and Clean hot water heating system by Heat Pump

**Complete Solution meets various needs**

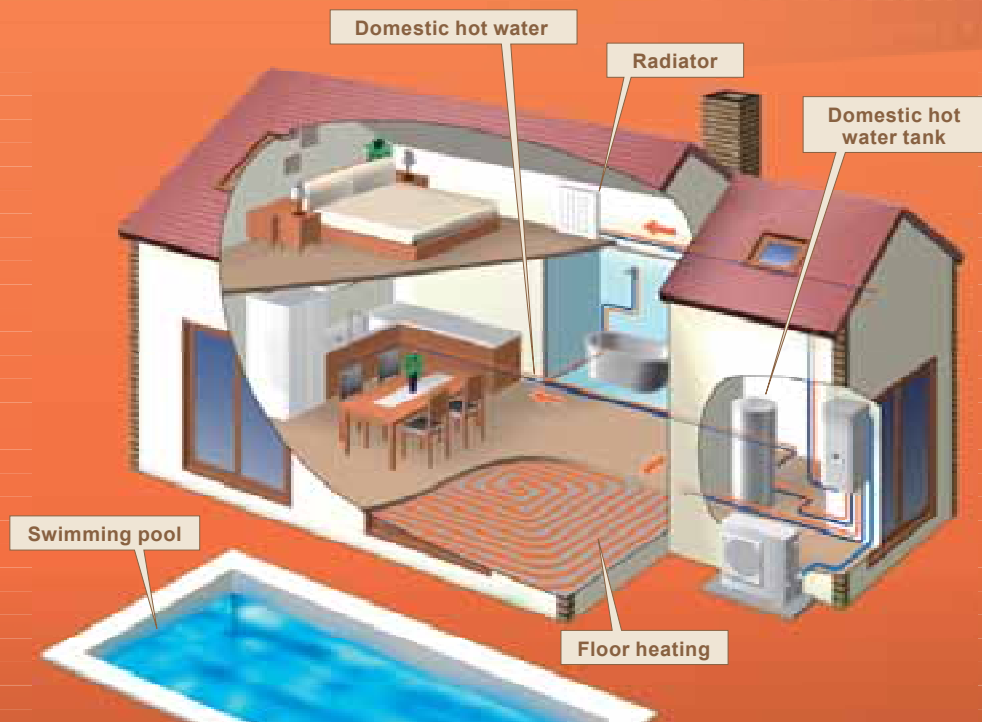
The clean energy produced by **WATERSTAGE™** reliably delivers “comfort” to diverse spaces in the home up to the living room, bedrooms, bath and swimming pool.



**146** High Power

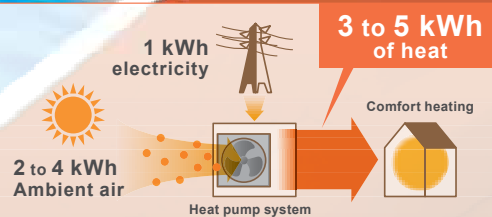
**146** Comfort

**147** Compact



**WHAT'S A HEAT PUMP ?**

Absorbing the free energy from atmosphere. Heat pump system requires only 1kW of electricity to generate 3 to 5 kW thermal energy.



Future Solution of Domestic Heating  
Air to Water

**WATERSTAGE™**





**SPLIT TYPE**  
High Power model

Indoor unit  
**WSYK160DA9** NEW

Outdoor unit  
**WOYK112LAT** NEW  
**WOYK140LAT** NEW  
**WOYK160LAT** NEW

**SPLIT TYPE**  
Comfort model

Indoor unit  
**WSYA050DA** **WSYA095DA**  
**WSYA065DA** **WSYA128DA**  
**WSYA080DA** **WSYA155DA**

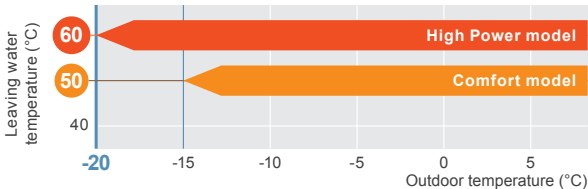
Outdoor unit  
**AOYA18LALL** **AOYA30LBTL** **AOYA45LBTL**  
**AOYA24LALL** **AOY54LJBYL**

## Powerful Heating & High Efficiency

### High leaving water temperature

High leaving water temperature of 60°C keeps to -20°C of outdoor temperature without using backup heater.

**No backup heater**



**FUJITSU GENERAL's advanced Linear Control Injection Technology (High Power model)**

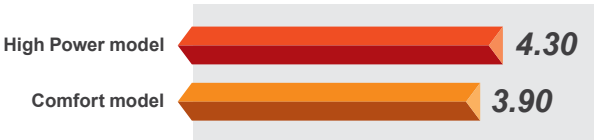
It realizes the high condensing temperature without overheating discharge gas temperature by Linear Control Injection process during compression.

Injection port  
**Twin Rotary Compressor with Linear Control Injection port**

High compression  
Normal refrigerant circuit  
Linear Control Injection

### High COP

Air to water heat pumps work with much more efficiency and save more energy than a traditional heating system.

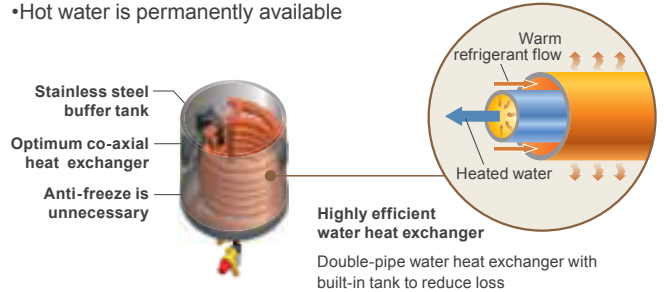


\*The data refer to 16kW type Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

## High Reliability

### High clean and durability

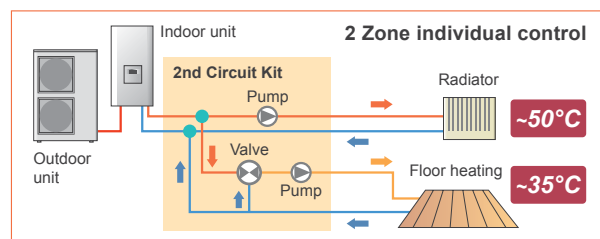
- Corrosion protected
- No fouling through heat exchanger construction
- Hot water is permanently available



## Intelligent Control

### 2 Zone individual control

- 2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)\*



\*Optional parts are required.



**MONOBLOC TYPE**

Compact model

Monobloc unit

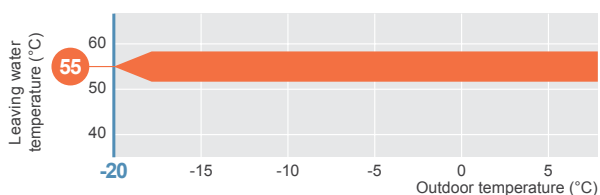
WPYA080LA **NEW**WPYA100LA **NEW**Control box  
UTW-SCBYA

## Compact & High Performance

### High leaving water temperature

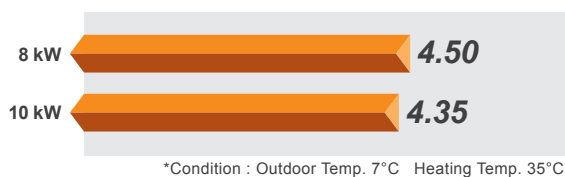
High leaving water temperature of 55°C keeps to -20°C of outdoor temperature without heater.

No  
backup  
heater



### High COP

High COP is realized by using a DC twin rotary compressor, inverter technology, and high efficient water heat exchanger.



### Compact & light weight design



Weight  
**82kg**

## Intelligent Control

Wired remote controller (control box) is adopted standard.



Control box

### And more

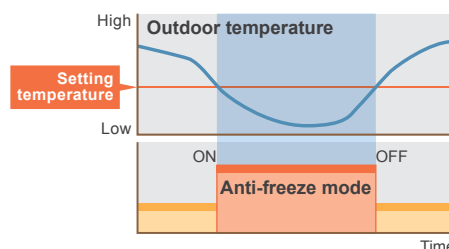
- Automatic heating curve control
- Cooling operation is possible\*
- Anti-Legionella function
- Possible to docking the boiler and electric heater for backup

\*Optional parts are required.

## High Reliability

### Anti-freeze function

Water circulation and compressor can be automatically performed at low outdoor temperature. Freezing of circulated water can be prevented.



### Easy installation & maintenance

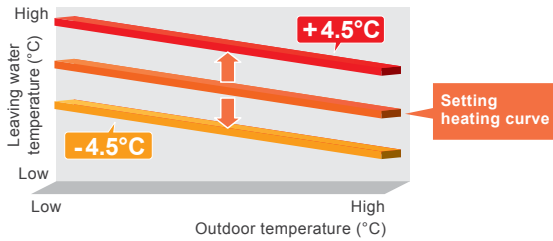
- No installation of refrigerant circuit connections.
- Closed type enables decrease in the supply frequency of circulating water.
- Easy access for maintenance operations

# Smart & Comfort Control

## Comfort

### Flexible heating circuit

Automatic hot water temperature control matched to the application can be set. In addition, set temperature coefficient offset can be adjusted easily high or low side matched to the usage conditions.



### Anti-legionella function

The growth of Legionella in DHW tank is suppressed and safe and clean hot water is supplied at all times.



**Simple operation mode setting**  
•Selecting the heating mode

**Large LCD display**  
•Operation status display  
•Error display / Error history

**Navigation and setting**  
•Selecting the heating menu  
•Setting program timer

## Convenience

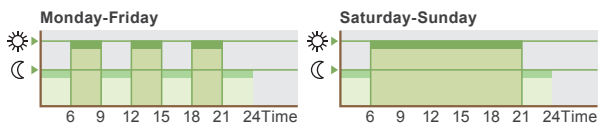
### Programmed operation

- The setting of programmed operation can be easily set.
- Changing the heating mode linked with time is possible.

Heating mode	
<b>Auto</b> Automatic mode Comfort/Reduce mode switching automatically according to outdoor temperature	<b>Comfort mode</b> Constant comfort temperature
<b>Reduce mode</b> Constant reduce temperature	<b>Protection mode</b> Stand-by mode with anti-frost protection

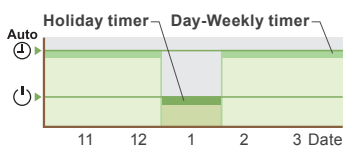
### Day-Weekly timer setting

- The day-weekly timer can be set up for up to 3 times per day.
- Allows separate settings for each day of the week.



### Holiday timer setting

- The holiday timer can be set up for up to 8 periods
- If you are absent for a long time in the winter, freezing of room can be prevented.



## Extendibility

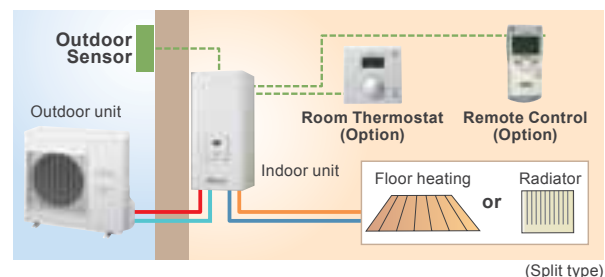
### Diverse operation control

Meets diverse needs by combining with optional parts.

WATERSTAGE	+	2-temperature simultaneous heating Floor heating + Radiator heating (Split type only)
OPTIONS	+	Operation together with boiler at low outdoor temperature
	+	Temperature control of swimming pool (Controlled at 35°C)

### Remote control-extension

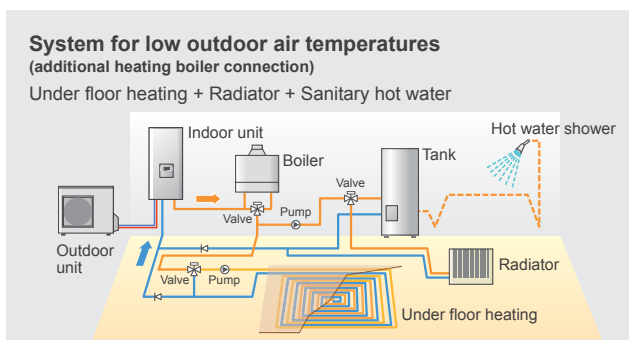
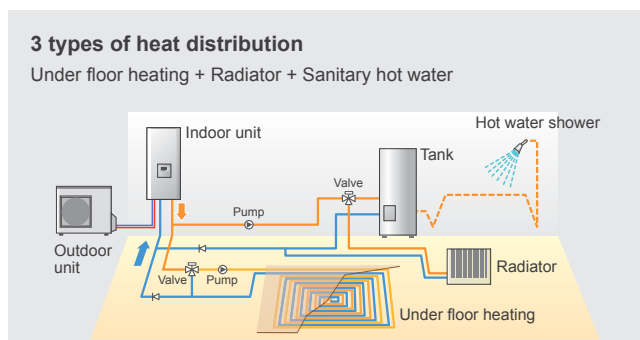
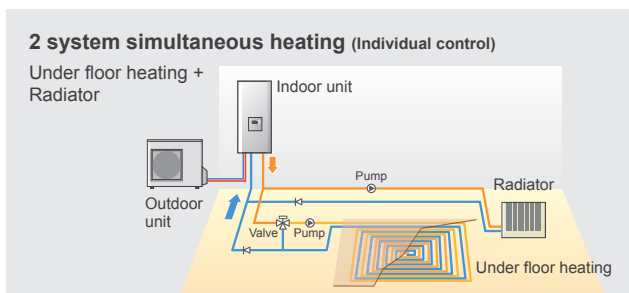
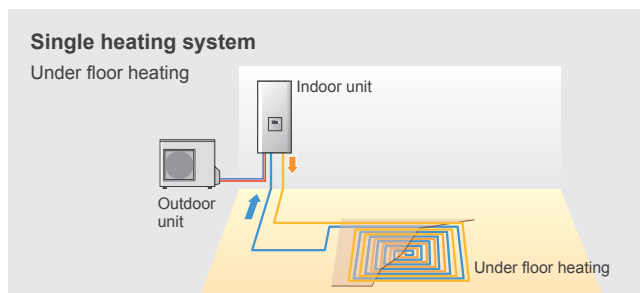
Optional remote controller allows controls of hot water depending on indoor temperature.

















# Design Versatility

## Installation example

The water heating system can be freely constructed for a wide range of applications from floor heating to hot water showers.



## Optional parts

	<p><b>2nd Circuit Kit</b></p>  <p>UTW-KZSXA</p>	<p><b>Boiler Connection Kit</b></p>  <p>UTW-KBSXA</p>	<p><b>Balancing Vessel</b></p>  <p>UTW-TEVXA</p>
<p><b>DHW Kit</b></p>  <p>UTW-KDWXA</p>	<p><b>DHW Tank 200L</b></p>  <p>UTW-T20XA</p>	<p><b>DHW Tank 300L</b></p>  <p>UTW-T30XA</p>	<p><b>High Flow Rate Circulating Pump Kit</b></p>  <p>UTW-PHFXA</p>
<p><b>Swimming Pool Kit</b></p>  <p>UTW-KSPXA</p>	<p><b>Heat exchanger for swimming pool</b></p>  <p>UTW-ESPXA</p>	<p><b>Cooling Kit</b></p>  <p>UTW-KCLXA</p>	<p><b>Cooling Kit (High flow rate)</b></p>  <p>UTW-KCHXA</p>
<p><b>Remote Control</b></p>  <p>UTW-C75XA</p>	<p><b>Room Thermostat</b></p>  <p>UTW-C55XA</p>	<p><b>External Indication Kit</b></p>  <p>UTY-XWZXZ2</p>	

## Specifications

Type				Split system								
Series name				High Power series			Comfort series					
Capacity range (kW)				11	14	16	5	6	8	10	13	16
+7°C / +35°C floor heating	Heating capacity	kW		11.20	14.00	16.00	4.60	6.50	8.00	10.30	13.70	16.20
	Input power			2.51	3.22	3.72	1.07	1.63	2.00	2.58	3.42	4.15
	COP			4.46	4.35	4.30	4.30	4.00	4.00	4.00	4.00	3.90
+2°C / +35°C floor heating	Heating capacity	kW		11.20	14.00	15.10	4.31	5.59	6.39	8.69	12.31	13.94
	Input power			3.45	4.40	4.87	1.36	2.05	2.34	3.21	3.87	4.77
	COP			3.25	3.18	3.10	3.16	2.73	2.73	2.71	3.18	2.92
-7°C / +35°C floor heating	Heating capacity	kW		11.20	14.00	15.00	4.80	5.60	7.00	8.10	11.55	12.40
	Input power			3.92	5.15	5.55	1.77	2.24	2.54	3.52	4.37	4.77
	COP			2.86	2.72	2.70	2.70	2.50	2.75	2.30	2.64	2.60
+7°C / +45°C radiators	Heating capacity	kW		10.50	13.10	15.10	4.17	5.40	6.20	8.30	9.70	13.30
	Input power			2.90	3.70	4.42	1.23	1.61	1.88	2.51	2.98	4.20
	COP			3.62	3.54	3.42	3.38	3.35	3.30	3.30	3.26	3.17
-7°C / +45°C radiators	Heating capacity	kW		10.50	13.10	14.50	4.05	5.10	5.90	7.00	9.20	11.00
	Input power			4.16	5.39	6.38	1.78	2.32	2.62	3.33	4.30	5.37
	COP			2.52	2.43	2.27	2.28	2.20	2.25	2.10	2.14	2.05
Backup heater	Capacity	kW×pcs.	9.0(3.0×3 pcs.)	9.0(3.0×3 pcs.)	9.0(3.0×3 pcs.)	3.0(1.5×2 pcs.)	3.0(1.5×2 pcs.)	3.0(1.5×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	6.0(3.0×2 pcs.)	
<b>Indoor unit</b>				<b>Model name</b>								
				WSYK160DA9			WSYA050DA	WSYA065DA	WSYA080DA	WSYA095DA	WSYA128DA	WSYA155DA
Power source				3Ø 400V, 50Hz			1Ø 230V, 50Hz					
Water circulation	Rated	L/min		32.1	40.1	45.9	14.3	18.6	22.9	27.2	36.7	44.4
	Mini / Max			25.0 / 50.0	25.0 / 50.0	25.0 / 50.0	9.0 / 18.3	10.0 / 23.3	14.3 / 28.3	16.7 / 35.0	25.0 / 50.0	25.0 / 50.0
Dimensions H×W×D			mm	1034 × 450 × 480			1034×450×480					
Weight (Net)			kg	53			52.5					
Buffer tank capacity			L	25			25					
Expansion vessel capacity			L	8			8					
Leaving water temperature range			°C	8 ~ 60			8 ~ 50					
Water pipe connection diameter	Flow / Return	mm		Ø25.4 / Ø25.4			Ø25.4 / Ø25.4					
<b>Outdoor unit</b>				<b>Model name</b>								
				WOYK112LAT	WOYK140LAT	WOYK160LAT	AOYA18LALL		AOYA24LALL	AOYA30LBTL	AOYA45LBTL	AOY54LJBTL
Power source				3Ø 400V, 50Hz			1Ø 230V, 50Hz					
Current	Rated	A		3.60	4.80	5.50	5.16	7.25	8.27	10.40	13.70	17.10
	Max			8.50	9.50	10.50	10.80	11.22	16.00	19.00	24.50	
Noise level (Sound pressure)			dB(A)	53*1	55*1	56*1	39*2	40*2	55*1	55*1	55.5*1	
Dimensions H×W×D			mm	1290 × 900 × 330			578 × 790 × 300		578×790×315	830×900×330	1290×900×330	1290×900×330
Weight (Net)			kg	99			40		44	64	98	105
Refrigerant				R410A			R410A					
Refrigerant amount			kg	2.50			1.25		1.70	2.20	3.35	3.40
Additional refrigerant charge amount			g/m	50			20		20	40	50	40
Connection pipe	Diameter	Liquid	mm	Ø9.52			Ø6.35		Ø6.35	Ø9.52	Ø9.52	Ø9.52
		Gas	mm	Ø15.88			Ø12.70		Ø15.88	Ø15.88	Ø15.88	Ø15.88
	Length	Mini / Max	m	5 / 20			5 / 15		5 / 15	5 / 20	5 / 20	5 / 20
		Length (chargeless)	Max	m	15			15		15	20	20
Height difference	Max		m	15			15		15	20	20	20
Operation range	Heating	°C		-20 ~ 35			-15 ~ 24					
<b>Type</b>				<b>Monobloc system</b>								
<b>Series name</b>				<b>Compact series</b>								
<b>Capacity range (kW)</b>				<b>8</b>		<b>10</b>						
+7°C / +35°C floor heating	Heating capacity	kW		8.00	10.00							
	Input power			1.78	2.30							
	COP			4.50	4.35							
+2°C / +35°C floor heating	Heating capacity	kW		7.40	8.10							
	Input power			2.73	3.00							
	COP			2.71	2.70							
-7°C / +35°C floor heating	Heating capacity	kW		7.10	8.00							
	Input power			2.93	3.32							
	COP			2.42	2.41							
+7°C / +45°C radiators	Heating capacity	kW		7.80	9.80							
	Input power			2.23	2.88							
	COP			3.50	3.40							
-7°C / +45°C radiators	Heating capacity	kW		6.50	7.00							
	Input power			2.98	3.31							
	COP			2.18	2.11							
<b>Monobloc unit</b>				<b>Model name</b>								
				WPYA080LA		WPYA100LA						
Power source				1Ø 230V, 50Hz								
Water circulation	Rated	L/min		22.9	28.7							
	Mini / Max			10.0 / 30.0	10.0 / 30.0							
Current	Rated		A	8.30	10.20							
Noise level (Sound pressure)			dB(A)	51*1	51*1							
Dimensions H×W×D			mm	881.5 × 850 × 330								
Weight (Net)			kg	82								
Expansion vessel capacity			L	8								
Water pipe connection diameter	Flow / Return	mm		Ø25.4 / Ø25.4								
Refrigerant				R410A								
Refrigerant amount			kg	1.5								
Leaving water temperature range			°C	8 ~ 55								
Operation range	Heating	°C		-20 ~ 35								

\*1. Sound pressure level measured at distance of 1m from the device and at a height of 1.5m above ground in free field

\*2. Sound pressure level measured at distance of 5m from the device and at a height of 1.5m above ground in free field

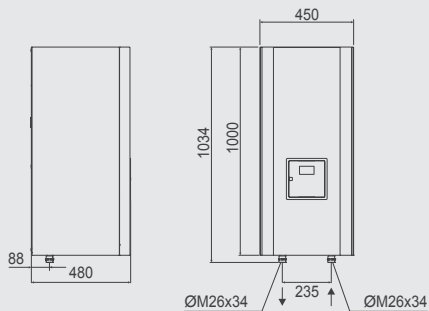
# Dimensions

(Unit : mm)

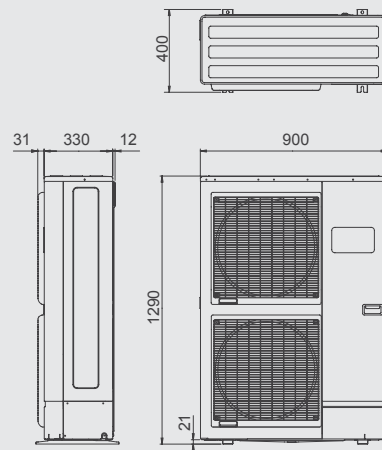
**Indoor Units High Power model**  
WSYK160DA9

**Indoor Units Comfort model**

WSYA050DA / WSYA065DA / WSYA080DA  
WSYA095DA / WSYA128DA / WSYA155DA



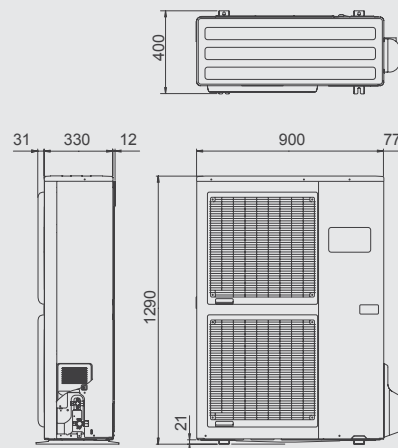
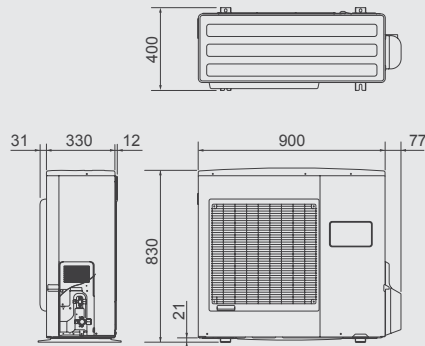
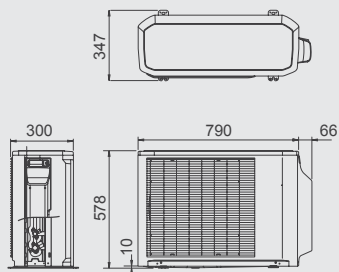
**Outdoor Units High Power model**  
WOYK112LAT / Woyk140LAT / Woyk160LAT



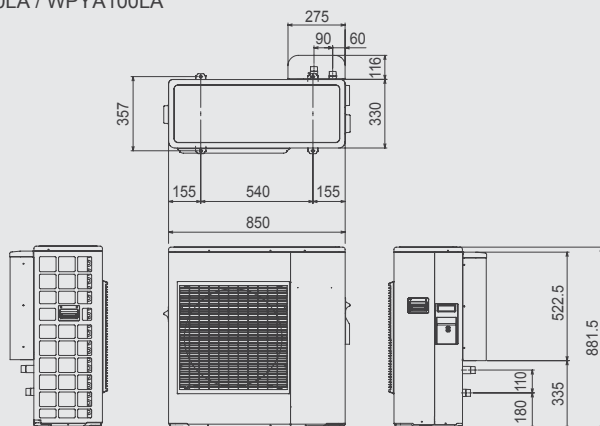
**Outdoor Units Comfort model**  
AOYA18LALL / AOYA24LALL

AOYA30LBTL

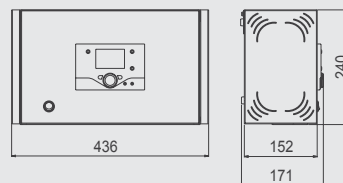
AOYA45LBTL / AOY54LJBYL



**Compact model**  
WPYA080LA / WPYA100LA



**Control Box**  
UTW-SCBYA



# Deodoriser



This solves your problems with distracting lifestyles smells and other stubborn smells.

## Deodorisation capacity

Approx. **150 times**<sup>\*1</sup>  
that of an air cleaner  
(compared to conventional Fujitsu General products)

## Bacteria elimination power

Removes **99.9%**<sup>\*2</sup>  
of airborne bacteria

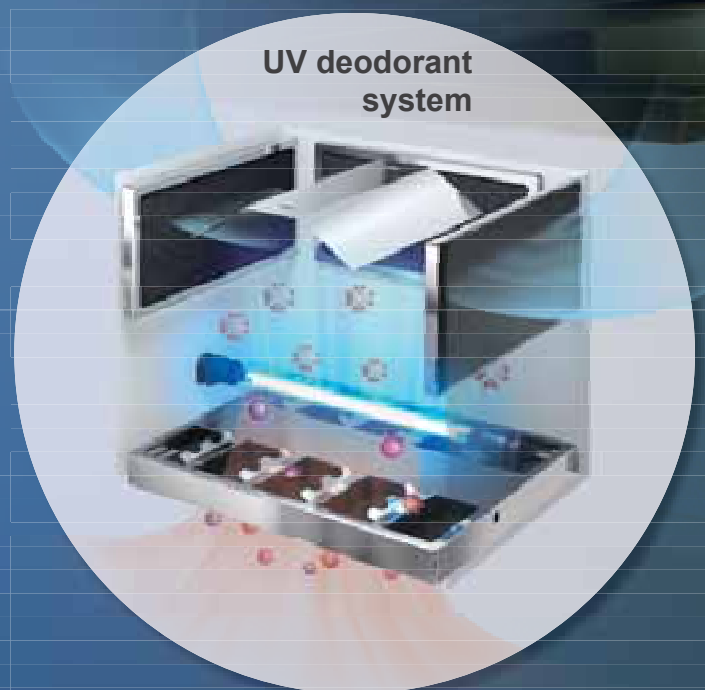
## Economical

Filter replacement  
unnecessary<sup>\*3</sup>

<sup>\*1</sup>. Compared to our Model ACS-24NVU Air Cleaner using urine (substituted with ammonia), food and raw garbage (fermented beans used as compound odour). However, approximately 50 times the deodorising capability (our company's study) for faecal waste (skatol and compound odour). Tested with constantly emitted odour. Calculated from the fact that the balance ratio of concentration for the same generation volume with the concentration of odour intensity level 1 as 10 times is inversely proportional to the removal capability.

<sup>\*2</sup>. Test organization: Kitasato Research Center of Environmental Sciences. Checked in UV deodorant system.

<sup>\*3</sup>. Washing with water once a year is the standard when cleaned with a vacuum cleaner once a month. (The cleaning frequency can vary depending on the conditions of use in the home. Replacement may also be necessary, depending on the condition of use.)



Powerfully deodorises  
Almost all **odours**

**For Comfortable Life**  
Deodoriser

**AIR DEODORISER**





# AIR DEODORISER

Powerfully removes odours by the world's first deodorisation decomposition technology. Simultaneously displays air cleaning and bacteria elimination effects, and makes living more pleasant.



Wireless Remote Controller

DASY30S

## 2 WORLD FIRST functions.

### UV deodorant system

**WORLD FIRST** \*1

Powerful deodorisation & bacteria elimination by 3 wavelengths\*2

#### Ozone deodorisation

Large volume of ozone is generated by light (185nm). Ozone power decomposes odour molecules.

#### Photo catalytic deodorisation

Odour molecules are decomposed by illuminating a titanium oxide plate with light (254nm).

#### Bacteria elimination

Bacteria and virus are repelled by light (185nm) having a bacteria elimination power 1600 times that of sunlight.



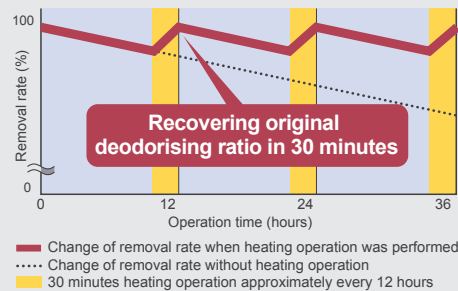
### Automatic deodorisation capability regeneration system

**WORLD FIRST** \*1

#### Deodorisation capability regenerated by heating

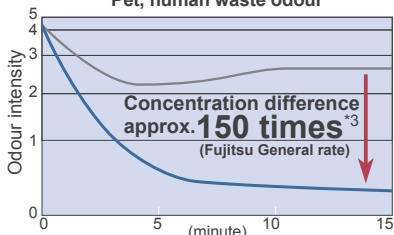
- Oxidation and decomposition capability is promoted by heating the filter for 30 minutes every 12 hours.
- Initial performance is maintained by removing odour molecules clinging to the filter.

#### Image of filter regeneration by heating operation



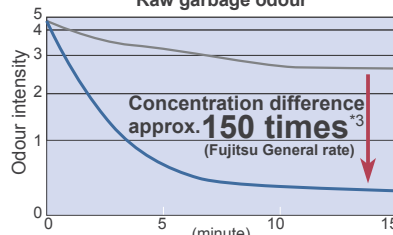
## High Performance Verification Test Results

Comparison of deodorising performance  
Pet, human waste odour



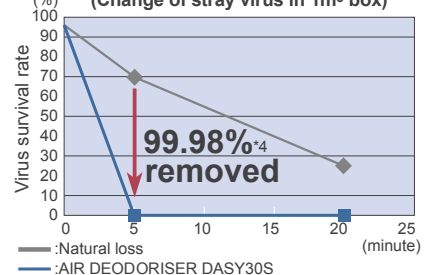
Odour intensity : 5.Very strong odour 4.Strong odour 3.Easily sensible odour 2.Weak odour but type of odour is sensed 1.Slightly sensible odour 0.No odour

Raw garbage odour



— :Home air cleaner ACS-24NUV  
 — :AIR DEODORISER DASY30S

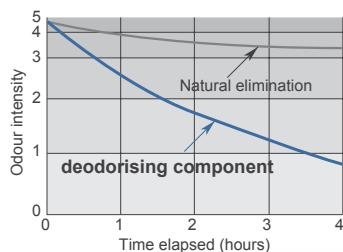
Virus elimination rate  
(Change of stray virus in 1m<sup>3</sup> box)



## Removes permeated odours

The deodorising component\*5 (weak ozone) discharged from the body decomposes and deodorises odours permeating the room from their source.

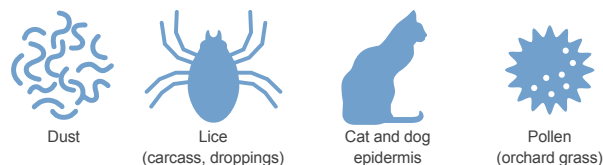
Deodorising effect of a piece of cloth permeated with the odour of 10 cigarettes  
6 stage odour intensity method  
(test room of 13.2m<sup>2</sup>)



## Air cleaning capability

Air is cleaned by powerful dust collection.

**Prefilter:** Removes pet hair and large dust particles.  
**Allergenic substance decomposition dust collection filter:** Removes pollen, lice, and other allergenic substances\*6



## Filter replacement unnecessary\*7

All filters do not require replacement. Economical

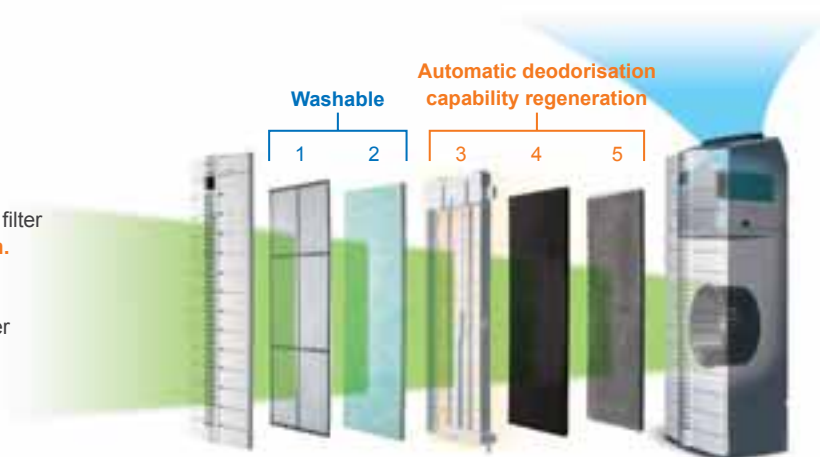
**Washable. Replacement unnecessary.**

1. Prefilter
2. Allergenic substance decomposition dust collection filter

**Automatic deodorisation capability regeneration.**

**Maintenance-free**

3. Heater unit
4. Compound metal oxidation catalyst honeycomb filter
5. Special activated charcoal filter



\*1. Home air deodorisation machine announced November 7, 2005. \*2. Generates light of 3 wavelengths; ozone generation 185nm, bacteria elimination 254nm, and photo catalyst activation 365nm. \*3. Compared to our Model ACS-24NVU Air Cleaner using urine (substituted with ammonia), food and raw garbage (fermented beans used as compound odour). However, approximately 50 times the deodorising capability (our company's study) for faecal waste (skatol and compound odour). Tested with constantly emitted odour. Calculated from the fact that the balance ratio of concentration for the same generation volume with the concentration of odour intensity level 1 as 10 times is inversely proportional to the removal capability. \*4. Test organization: Kitasato Research Center of Environmental Sciences. Checked in UV deodorant system. \*5. Generates very weak ozone. However, the concentration is less than the volume existing in the natural state in forests, etc. The deodorising effect varies depending on the room size and amount of ventilation. \*6. Test organization: Tested by Shinshu University using lice carcass, lice faeces, cat epidermis, dog epidermis, and orchard grass. \*7. Washing with water once a year is the standard when cleaned with a vacuum cleaner once a month. (The cleaning frequency can vary depending on the conditions of use in the home. Replacement may also be necessary, depending on the condition of use.)  
•Photographs and illustrations are images. •Harmful substances (carbon monoxide, etc.) of tobacco cannot be removed.

## Specifications

Model No.	DASY30S	
Rated voltage	V	220-240
	Hz	50/60
Operation modes	AUTO, QUIET, HIGH, HI-POWER	
Air flow	m <sup>3</sup> /min	At minimum 0.8, at maximum 3.0
Operating sound	dB	At minimum 19, at maximum 45
Power consumption	W	At minimum 11, at maximum 35
Applicable floor space	m <sup>3</sup>	~33 *By amount of generation source
Dust collection function	Non-woven fabric pleat filter	
Deodorising method	UV ozone + compound honeycomb	
Bacteria elimination method	Bacteria elimination lamp	
Filter life	Catalytic honeycomb filter: Automatic refreshing	
	Dust collection filter: Water washing refreshing	
Sensor	Gas sensor	
Motor drive	Inverter	
Off timer	h	1
Product outside dimensions	mm	274 x 653 x 215
Product weight	kg	6.4
Installation	Floor installation (wall mounting bracket installable)	
Power cord length	m	2
Safety devices	Overcurrent prevention (current fuse)	
	Excessive temperature rise prevention (automatic reset thermostat)	
	Excessive temperature rise prevention (temperature fuse)	
Remote controller	Accessory	

# Feature Explanation

## Comfortable function



### Up / down swing flaps

The up/down flaps automatically swing up and down.



### Double swing automatic

Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



### Automatic air flow adjustment

The micro-computer automatically adjusts the air flow effectively to follow the changes of room temperature.



### Auto restart

In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.



### Auto-changeover

The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.



### 10°C HEAT operation

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.



### Connectable distributing duct



### Connectable fresh air duct



### Fresh air intake

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



### Economy mode

Limits the maximum operation current, and performs operation with the power consumption suppressed.



### Energy saving mode

This mode raises the set temperature slightly in the cooling mode and lowers the set temperature in the heating mode to economically control the operation of the unit.



### V-PAM control models



### i-PAM control models



### Simultaneous multi

2 or 3 indoor units can be connected to 1 outdoor unit.

## Convenient function



### Sleep timer

The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.



### ON-OFF timer

ON-OFF timer can be set to operate once.



### Program timer

This digital timer allows selection of one of four options: ON, OFF, ON→OFF or OFF→ON.



### Weekly timer

Different on-off times can be set for each day.



### Weekly + setback timer

Weekly + Setback timer can set temperature for two times spans and for each day of the week.



### Filter sign

Indicates the filter cleaning period by lamp.

## Clean function



### Automatic filter

The filter is automatically cleaned after a set amount of time of air conditioner operation.



### UV filter cleaner

UV (ultraviolet rays) suppresses the growth of mold and germs inside the indoor unit.



### Plasma air cleaner

Electrically charged filter removes contaminants, dusts and odors. It also prevents the growth of bacteria.



### Long-life ion deodorization filter

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



### Apple-catechin filter

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



### Coil dry

The indoor unit can be dried to prevent the growth of mold and bacteria.



### Washable panel

# Feature summary

	Ceiling Wall	Wall Mounted	Floor	Compact Cassette / Cassette	Floor/Ceiling Universal	Ceiling	Compact Duct / Duct	High Static Pressure Duct
	ASB909LD/12LD/18LD/24LD	ASYA07LG/09LG/12LG/14LG	ASY7UB/9UC/12UC/14UC	AUYF12LA/14LA/18LB/24LB	AUYA30LB/36LB/45LC/54LC	AUY25UU/30UU/36UU/45UU/54UU	ABYA30LB/36LB/45LC/54LC	ARYF24LB/ARYA30LB/36LB/45LC/54LC
	AWYZ14LB/18LB/24LB	ASYA18LE/24LC/30LF	ASY18UB/24UB/30UB	AGYF09LA/12LA/14LA	AUY12UB/14UB/18UB	ABY14UB/18UB/24UB	ARY7UU/9UU/12UU/14UU/18UB	ARY25UU/30UU/36UU/45UU/54UU
								ARY45LH/54LU/ARYC45LC/54LC
								ARY60UU
								ARY90TL
Comfortable function								
Up / down swing flaps	●	●	●	●	●	●	●	●
Double swing automatic	●	●	●	●	●	●	●	●
Automatic air flow adjustment	●	●	●	●	●	●	●	●
Auto restart	●	●	●	●	●	●	●	●
Auto-changeover	●	●	●	●	●	●	●	●
10°C heat operation		●	●	●				
Connectable distributing duct					●	●		●
Connectable fresh air duct					○	●	●	●
Fresh air intake					○	○	○	○
Economy mode	●	●			●	●	●	●
Energy saving mode					●	●		●
Convenient function								
Sleep timer	●	●	●	●	●	●	●	●
On-off timer				●				
Program timer	●	●	●	●	●	●	●	●
Weekly timer								
Weekly + setback timer	○	○	○					
Filter sign					●	●	●	●
Clean function								
Automatic filter cleaner	●							
UV filter cleaner	●							
Plasma air cleaner		●						
Long-life ion deodorization filter		●	●	○	○	●		
Apple-catechin filter		●	●	○	○	●		
Coil dry	●	●	●	●	●			
Washable panel	●	●	●	●	●			
V-PAM control models	●	●	●	●	●	●	●	●
i-PAM control models		●	●			●	●	●
Simultaneous multi					●		●	●

○ : Optional function

# FUJITSU GENERAL LIMITED

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<http://www.fujitsu-general.com/>

## Notice for specifications

I.U.=Indoor Unit    O.U.=Outdoor Unit    Qu=Quiet    \* =Not decided yet  
•Specifications and design subject to change without notice for further improvement.  
Please check with your dealer.  
•Cooling/Heating capacities are based on the following conditions.

Cooling	Indoor temp. : 27°C DB/19°C WB Outdoor temp. : 35°C DB/24°C WB	Heating	Indoor temp. : 20°C DB/15°C WB Outdoor temp. : 7°C DB/6°C WB
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ISO 9001 Certified number:09 100 89394  
Fujitsu General (Thailand) Co., Ltd.

ISO 14001 Certified number:09 104 9245



ISO 9001 Certified number:09 100 79269  
Fujitsu General (Shanghai) Co., Ltd.



ISO 14001 Certified number:104692

•The colors may be different from the actual colors because this catalog is printed matter.

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