FUJITSU THE POSSIBILITIES ARE INFINITE

2009 PRODUCTS CATALOGUE

Air Conditioner of Fujitsu General
The Intelligent Choice in Comfort

Split

Multi Split

VRF

Window

Energy Recovery Ventilator

Air to Water

Deodoriser

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.

INVERTER
Refrigerant R410A

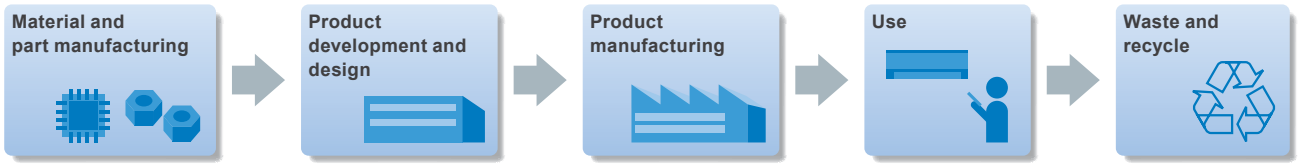
Creating top-class products that exceed the energy saving standards of a variety of areas by expanding the range of models incorporating new refrigerant and inverter technology to create our original energy saving technology that achieves both energy saving and comfort.

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

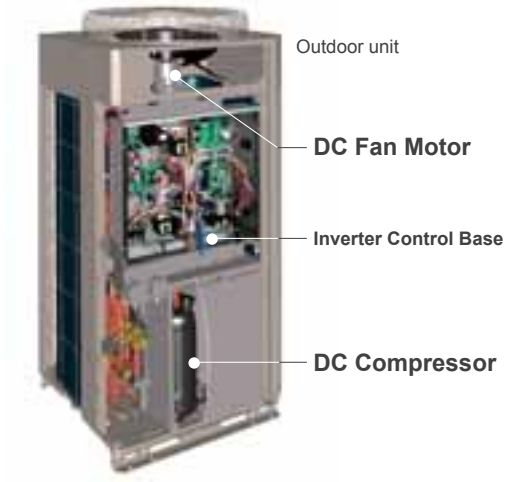
All Technologies for Energy Saving

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

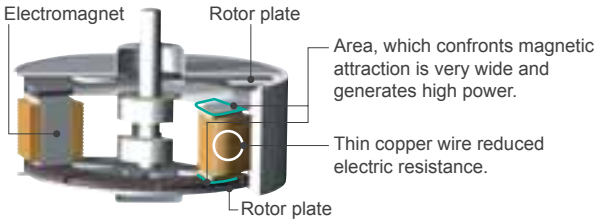
By making all the motors DC, electricity loss is decreased and power consumption is substantially reduced. In addition, fan motor high speed rotation is possible, and heat exchange efficiency is increased and annual power consumption amount is saved by increasing the airflow.

ALL DC



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.

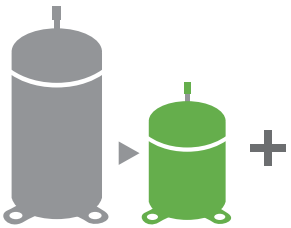


High Efficiency DC Twin Rotary Compressor

A high performance, low noise, large capacity DC Twin Rotary Compressor is used for VRF.
Each part is optimized with intake and compression efficiency increased to the maximum extent.

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)

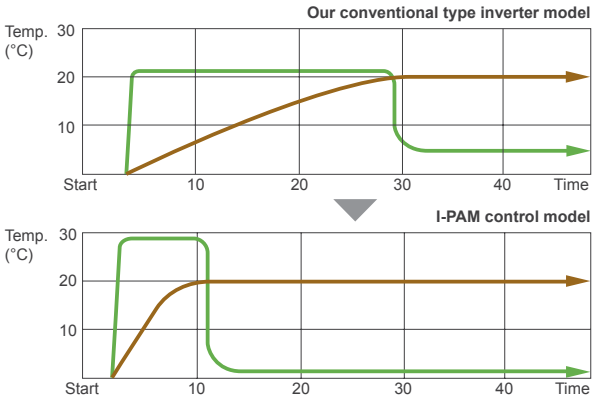
i-PAM I-PAM Control
(PAM+IPM)

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

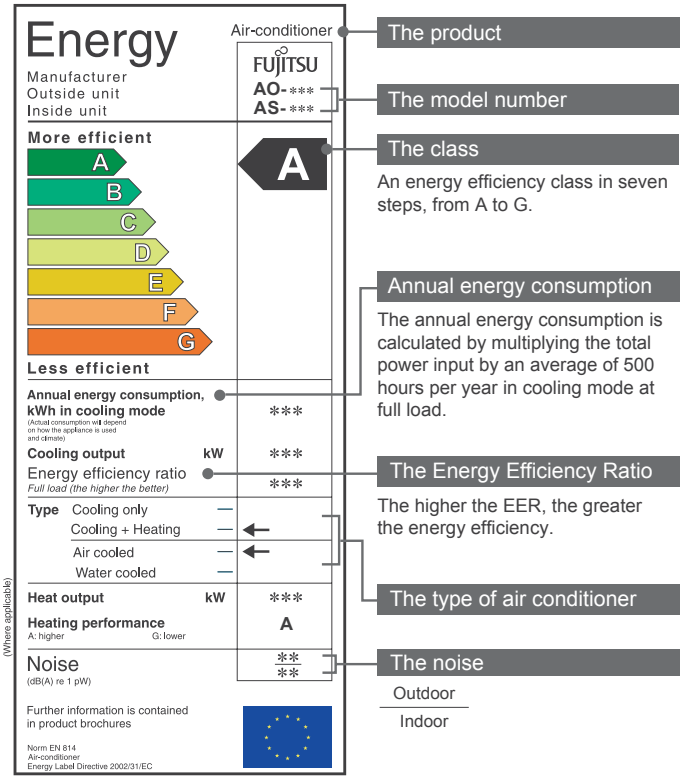
Our models have earned the “Class A” ranking, the highest energy saving standard that is shown on energy labels in Europe.

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.

CLASS A

Energy Label



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	
A	3.20 < EER	A	3.60 < COP
B	3.20 ≥ EER > 3.00	B	3.60 ≥ COP > 3.40
C	3.00 ≥ EER > 2.80	C	3.40 ≥ COP > 3.20
D	2.80 ≥ EER > 2.60	D	3.20 ≥ COP > 2.80
E	2.60 ≥ EER > 2.40	E	2.80 ≥ COP > 2.60
F	2.40 ≥ EER > 2.20	F	2.60 ≥ COP > 2.40
G	2.20 ≥ EER	G	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 form residential to commercial to provide you with a pleasant air-conditioned life.

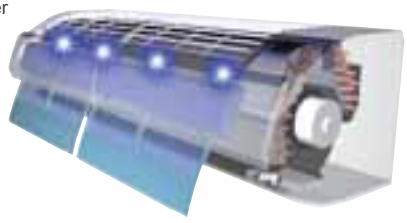
Clean & Convenience

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 *1



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

New Products

Split

3-phase inverter single split

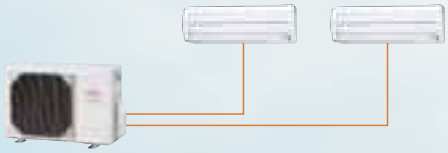
Range 10.0 kW to 14.0 kW

P014

Model code	36	45	54
Cassette			
Ceiling			
Duct			
High Static Pressure Duct			

Multi Split

4.0 kW 2-room inverter multi split



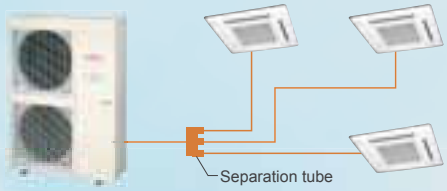
AOYA14LAC2

P062

Model code	7	9	12
Wall Mounted			

3-phase simultaneous operation inverter multi

Range 10.0 kW to 14.0 kW



AOYD36/45/54LA

P070

Model code	18	22	24
Cassette			
Floor / Ceiling			
Duct			

VRF

Newly designed compact outdoor unit
Space saving combination and High efficiency combination new lineup models for heat pump type.

P102

HP

8/10/12/14/16/18/20/22/
24/26/28/30/32/34/36/38/
40/42/44/46/48

AIRSTAGE V-II

Air to Water

High efficiency domestic space and water heating based on heat pump inverter technology.

P148

kW

5/6/8/10/13/16

WATERSTAGE

Contents

All Type Lineup Split & Multi Split

Split

Capacity (kW)		2.0	2.6	3.5	4.1	5.3
Model Code		7	9	12	14	18
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				NEW AOYA 14LAC2	AOY 18LMAK2
Up to 3 Units ►062 page	INVERTER					AOYA 18LAT3
Up to 4 Units ►062 page	INVERTER					
Simultaneous Multi Twin / Triple ►070 page	INVERTER					
Big Multi ►072 page	Individual Constant					
	Simultaneous Constant					

7.1	8.8	10.6	13.2	15.8	17.6	26.4
24	30	36	45	54	60	90
AWYZ24LB						
ASYB24LD						
ASYA24LC	ASYA30LC					
ASY24UB	ASY30UB					
AUYF24LB	AUYA30LB	AUYA36LB/AUYA36LC NEW	AUYA45LA	AUYA45LC NEW	AUY54LU	AUYA54LC NEW
AUY25UU	AUY30UU	AUY36UU	AUY45UU		AUY54UU	
ABYF24LB						
ABY24UB						
	ABYA30LB	ABYA36LB/ABYA36LC NEW	ABYA45LC NEW		ABYA54LC NEW	
	ABY30UB	ABY36UB	ABY45UB		ABY54UB	
ARYF24LB	ARYA30LB	ARYA36LB/ARYA36LC NEW	ARYA45LC NEW			
ARY25UU	ARY30UU	ARY36U(1)/ARY36UU	ARY45UU			
			ARY45LH/ARYC45LC NEW		ARY54LU/ARYC54LC NEW	
					ARY60UU	ARY90TL

AOY 24LMAM2						
AOYA 24LAT3						
	AOY 30LMAW4					
		AOYD 36LATT NEW	AOYD 45LATT NEW	AOYD 54LATT NEW		
						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
J series Heat Pump ►076 page INVERTER	AJYA 54LCLR										
S series Heat Recovery ►084 page INVERTER			AO90MPCMF								
V series Heat Pump ►088 page INVERTER											
Master		AJYA72LBTF	AJYA90LBTF		AJY126LBTF	AJYA72LBTF	AJYA90LBTF	AJYA90LBTF	AJY126LBTF	AJY126LBTF	AJYA90LBTF
Slave 1						AJYA72UBTF	AJYA72UBTF	AJYA90UBTF	AJYA72UBTF	AJYA90UBTF	AJYA72UBTF
Slave 2											AJYA72UBTF
V-II series NEW Space saving Heat Pump ►102 page INVERTER											
Set Model		AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY162LALH	AJY180LALH	AJY198LALH	AJY216LALH	AJY234LALH
Unit 1		AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJYA90LALH	AJY108LALH	AJY108LALH	AJY108LALH	AJY126LALH
Unit 2							AJYA72LALH	AJYA72LALH	AJYA90LALH	AJY108LALH	AJY108LALH
Unit 3											
V-II series NEW Energy efficiency Heat Pump ►102 page INVERTER											
Set Model						AJY144LALHH			AJY198LALHH	AJY216LALHH	AJY234LALHH
Unit 1						AJYA72LALH			AJY126LALHH	AJYA72LALH	AJYA90LALH
Unit 2						AJYA72LALH			AJYA72LALH	AJYA72LALH	AJYA72LALH
Unit 3										AJYA72LALH	AJYA72LALH

Window

►146 page

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

Air to Water

►148 page NEW

Capacity (kW)	5.0	6.0
Model Code	50	65
INVERTER		
Indoor unit	WSYA050DA	WSYA065DA
Outdoor unit	AOYA18LALL	AOYA18LALL

78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0
28	30	32	34	36	38	40	42	44	46	48
AJY126LBTF	AJYA90LBTF	AJY126LBTF	AJY126LBTF	AJY126LBTF	AJY126LBTF		AJY126LBTF			
AJY126UBTF	AJYA90UBTF	AJYA90UBTF	AJYA90UBTF	AJY126UBTF	AJY126UBTF		AJY126UBTF			
	AJYA90UBTF	AJYA72UBTF	AJYA90UBTF	AJYA72UBTF	AJYA90UBTF		AJY126UBTF			
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		

8.0	10.0	13.0	16.0
80	95	128	155
WSYA080DA	WSYA095DA	WSYA128DA	WSYA155DA
AOYA24LALL	AOYA30LBTL	AOYA45LBTL	AOY54LJBYL

Deodoriser

► 154 page

Capacity (m^3/h)	3.0
Model Code	30
INVERTER	DASY30S

Split

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

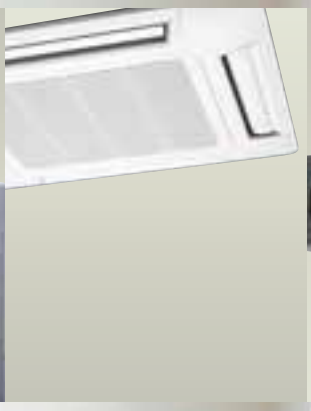
An air conditioner that is people-friendly is also environment-friendly. Fujitsu General offers a broad lineup of products from large living rooms to bedrooms and children's rooms. We make your room more comfortable with a wide range of air conditioner types from ceiling wall type with automatic filters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

Contents

10 types
84 models

THE POSSIBILITIES ARE INFINITE

FUJITSU



THE INTELLIGENT CHOICE IN COMFORT

Split type Air Conditioners

FUJITSU GENERAL LIMITED

INVERTER

Ceiling Wall

6th year of record achievements.
Automatic filter cleaning air conditioner

V-PAM | Double | Adjust | Restart | Auto Changeover | Economy | Sleep | Program | Auto | UV | Coil Dry | Wash

For AWYZ14 / 18LB

For AWYZ24LB

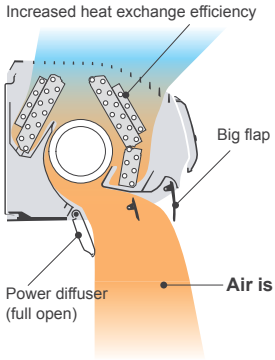
CLASS A ALL DC **AWYZ14LB**

CLASS A ALL DC **AWYZ18LB**

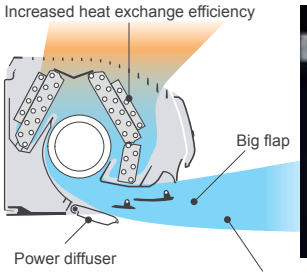
CLASS A ALL DC **AWYZ24LB**

"Vertical airflow" provides powerful floor level heating

Heating Capacity *No.1*



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



*Compared to our conventional Model ASY13PSCCW

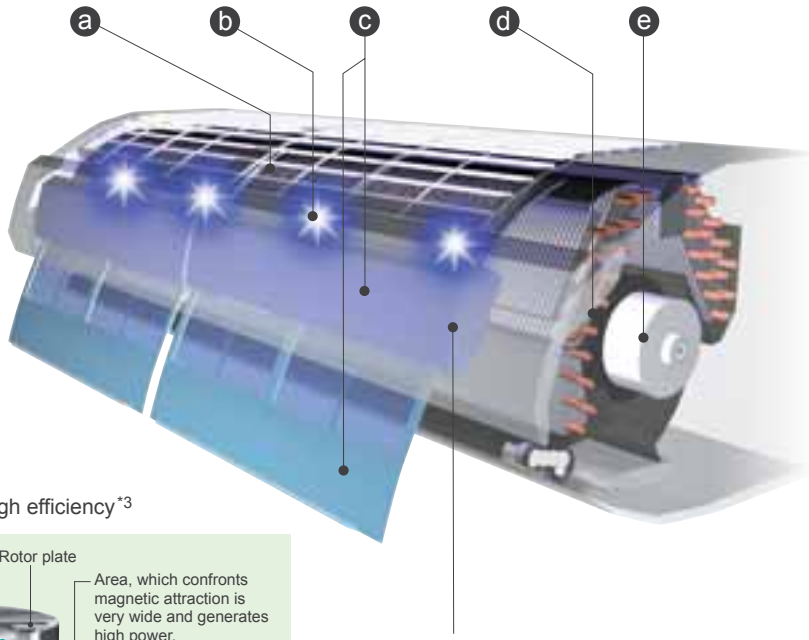
Specifications

Model No.	Indoor unit		AWYZ14LB	AWYZ18LB	AWYZ24LB
	Outdoor unit		AOYZ14LB	AOYZ18LB	AOYZ24LB
Power Source		V/Ø/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)	Cooling		46	47	53
Airflow Rate (High)	Indoor / Outdoor	m^3/h	850/1910	850/1910	880/3600
Net Dimension H x W x D	Indoor	mm	250×899×298	250x899x298	250x899x298
		kg(lbs)	13.5(30)	13.5(30)	14(31)
	Outdoor	mm	578x790x300	578×790×300	830×900×330
		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)			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 *1

•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



ⓐ Dirt and dust are bacteria-eliminated by photocatalytic filter*2

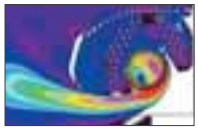
ⓑ Drives away bacteria and refreshes the air by UV (ultraviolet rays) illumination

ⓒ Energy saving by automatic filter cleaning function*1

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.

ⓓ 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

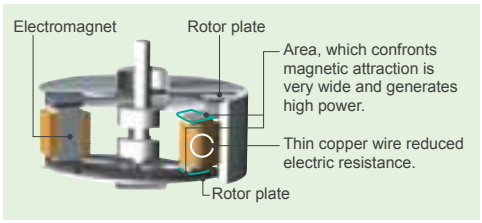
ⓔ Axial gap fan motor enables nonconventional high power and high efficiency*3

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

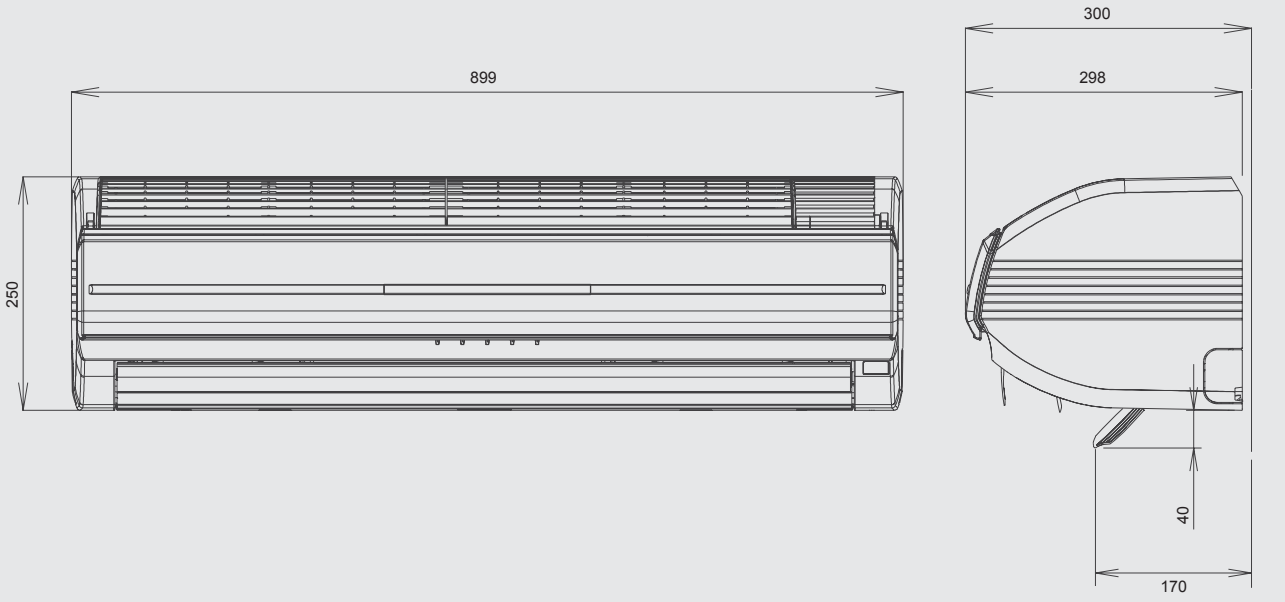
Removes dirt and dust by double brushes. Dust collection is approx. twice that in the past. (our company comparison) Maintenance: Only throwing into a trash bin once every 2 years

*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

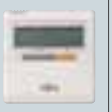
PLASMA AIR CONDITIONER

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

ASYB09/12/18LD

ASYB24LD

Optional



Wired R.C. (24)

(09/12/18) (24) Wireless R.C.

CLASS A ALL DC **ASYB09LD**

CLASS A ALL DC **ASYB12LD**

CLASS A ALL DC Heating **ASYB18LD**

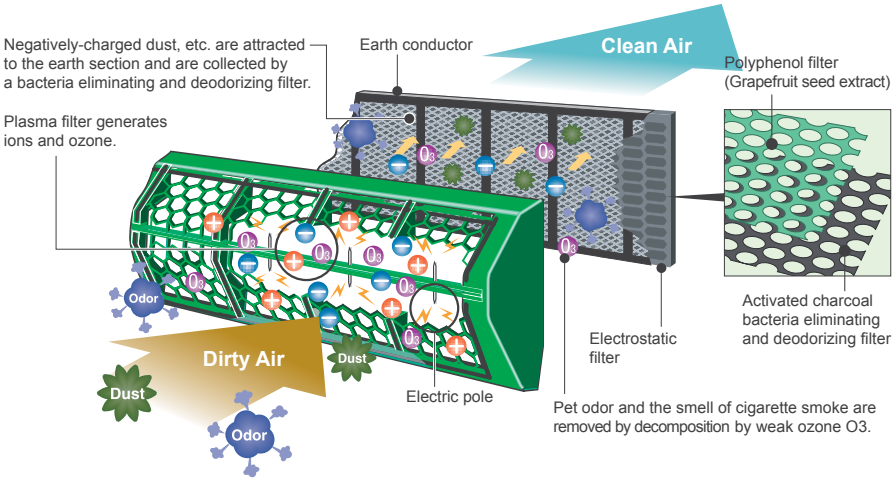
CLASS A ALL DC **ASYB24LD**

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.



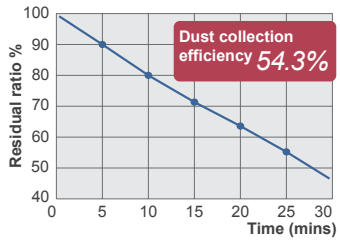
Specifications

Model No.	Indoor unit		ASYB09LD	ASYB12LD	ASYB18LD	ASYB24LD
	Outdoor unit		AOYS09LD	AOYS12LD	AOYS18LD	AOYS24LD
Power Source		V/Ø/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/M/L/Q	dB(A)	39/34/29/20	41/35/29/20	45/39/33/26	49/43/38/33
Noise (Outdoor)	Cooling		47	47	50	52
Airflow Rate (High)	Indoor / Outdoor	m^3/h	560/1970	595/1830	700/2000	1170/2340
Net Dimension H x W x D	Indoor	mm	283x790x230	283x790x230	283x790x230	320x998x228
		kg(lbs)	9.5(21)	9.5(21)	10(22)	14(31)
	Outdoor	mm	540x790x290	540x790x290	578x790x300	578x790x315
		kg(lbs)	34(75)	36(80)	40(88)	44(97)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/9.52	6.35/12.70	6.35/15.88
Drain Pipe Diameter (Inner/Outer)			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

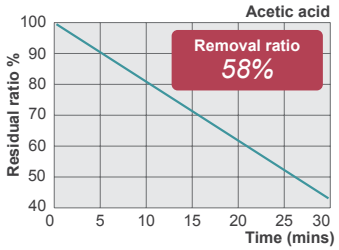
Plasma air cleaner quickly removes small dust particles & odors

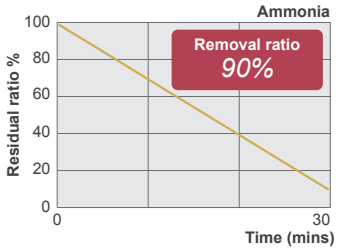
Collects dirt such as... House dust / Pet fur and dander / Cigarette smoke / Mite carcass / Mold spore / Pollen
Absorbs odors such as... Smell of cigarette smoke / Pet odor / Kitchen garbage smell / Perspiration and body odor

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



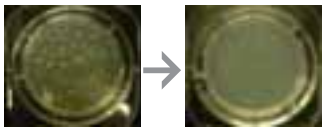
Deodorizing performance*2
(ASYB09/12/18LD)





*1. Test method: JEM 1417
Test room: 30m³, sealed room
Measurement conditions: Cigarette smoke (5 cigarettes burned simultaneously)
*2. Test method: JEM1467
Test room : 1m³, 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

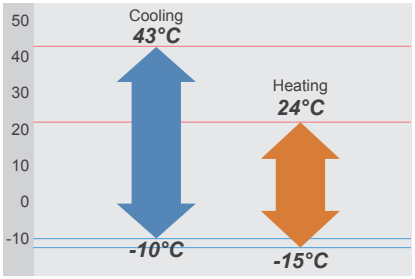
This model is equipped with an inner drying function. After the power is turned off, the dry operation starts inside the air conditioner. The plasma air cleaning unit eliminates bacteria, deodorizes, and keeps the interior of the air conditioner clean by generating ozone and ions.

Easy maintenance

Removable panel
ASYB09/12/18LD

Washable filter

Low ambient operation



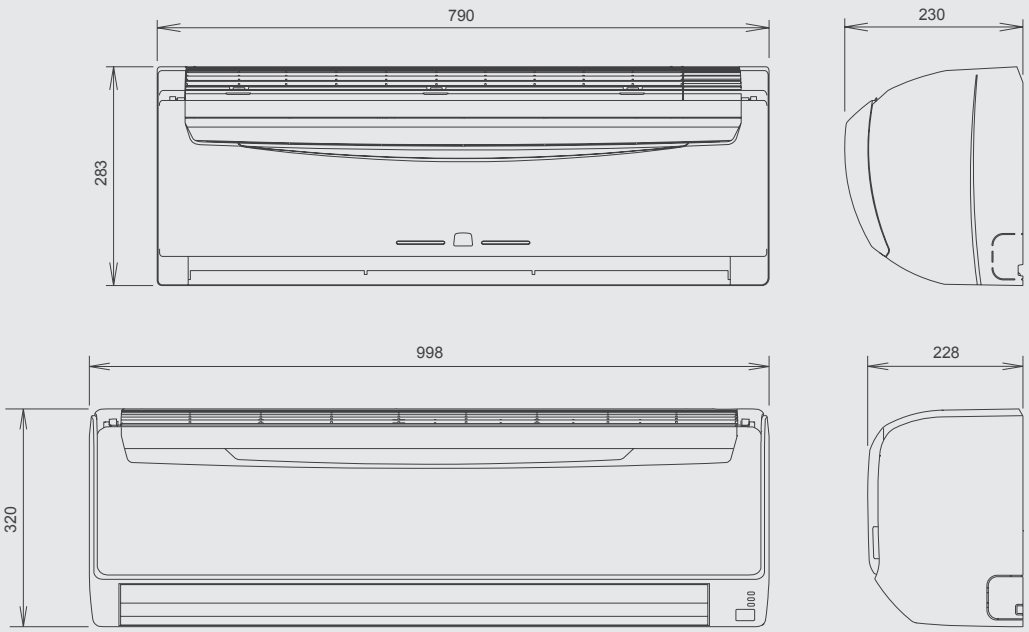
Optional parts

Wired Remote Controller: UTB-YUD (For ASYB24LD)
External Indication Kit: UTY-XWZX (For ASYB24LD)

Dimensions

Models: ASYB09LD / ASYB12LD / ASYB18LD / ASYB24LD

(Unit : mm)

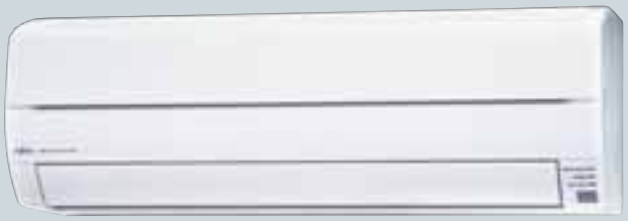


INVERTER

Wall Mounted

Simple design with energy saving.

i-PAM (12) | V-PAM (07/09) | Up/Down | Adjust | Restart | Auto Changeover | 10°C HEAT | Economy | Sleep | Program | W+S | Ion | AF | Coil Dry | Wash (Wired R.C.)



Optional

Wired R.C.

Wireless R.C.

For ASYA07/09/12LG

For ASYA14LG

CLASS A ALL DC **ASYA07LG**

CLASS A ALL DC **ASYA09LG**

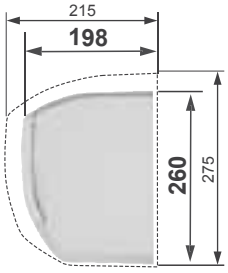
CLASS A ALL DC **ASYA12LG**

CLASS A ALL DC **ASYA14LG**

Compact design

------ Conventional type
(Unit : mm)

Indoor unit



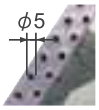
Volume -10%

Outdoor unit

Volume -30% | Weight -14%

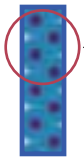
For ASYA12LG

High density heat transfer tube arrangement



Making the tube Thin: 7mm → 5mm

Volume reduction of heat exchanger: 30%



Even temperature

Improved the heat exchanger effectiveness

Specifications

Model No.	Indoor unit		ASYA07LG	ASYA09LG	ASYA12LG	ASYA14LG
	Outdoor unit		AOYR07LG	AOYR09LG	AOYR12LG	AOYR14LG
Power Source		V/Ø/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		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	dB(A)	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	m^3/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)			16/29	16/29	16/29	16/29
Max Pipe Length (Chargeless)		m	20(15)	20(15)	20(15)	20(15)
Max Height Difference			15	15	15	15
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

Air conditioner filter features

**Long-life*
Ion Deodorization Filter**

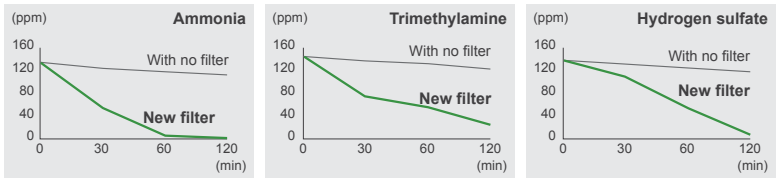
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

*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.

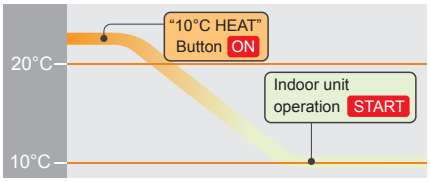
Deodorizing effect (Odor reduction rate)



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

10°C HEAT Operation *Only available with Wirelass 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

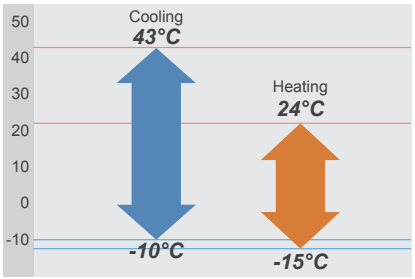
Dry operation removes moisture and keeps the air conditioer clean.

Quiet operation

Cooling mode (07/09/12TYPE)

Fan speed	Noise level
Quiet	*21dB(A)*

Low ambient operation



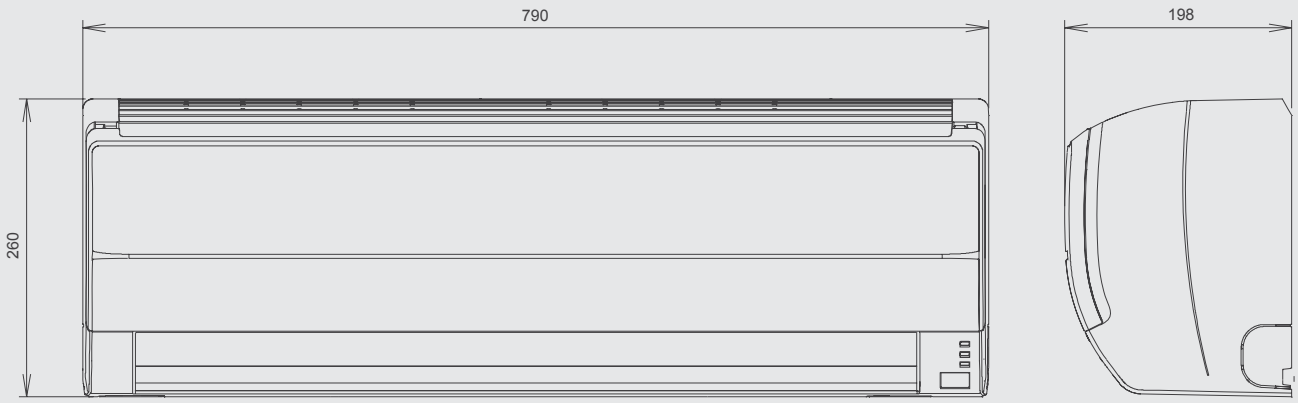
Optional parts

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

V-PAM | Double | Adjust | Restart | Auto Changeover | 10°C HEAT (18) | Sleep | Program | W+S | Ion | AF | Coil Dry | Wash

Wired R.C.

(18) (24/30)
Wireless R.C.

Optional

Wired R.C.

For ASYA18LE

For ASYA24LC

For ASYA30LC

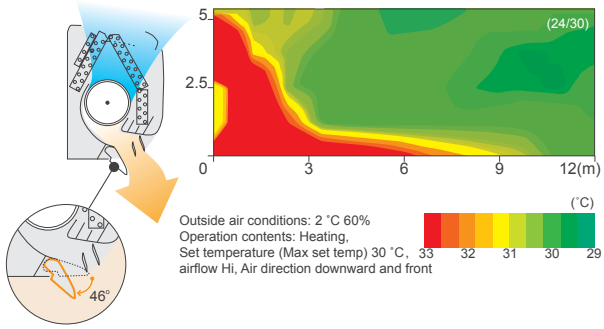
CLASS A ALL DC
ASYA18LE

CLASS A ALL DC
ASYA24LC

ALL DC
ASYA30LC

"Vertical airflow" provides powerful floor level heating

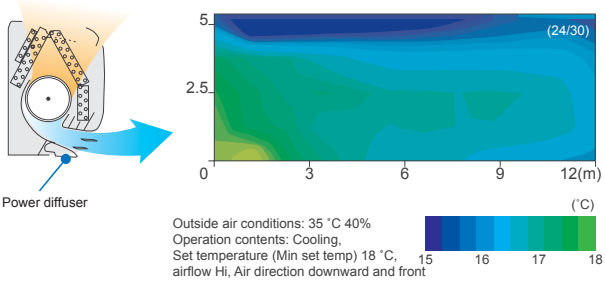
Heating capacity *No.1*



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

Power diffuser (full open)

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



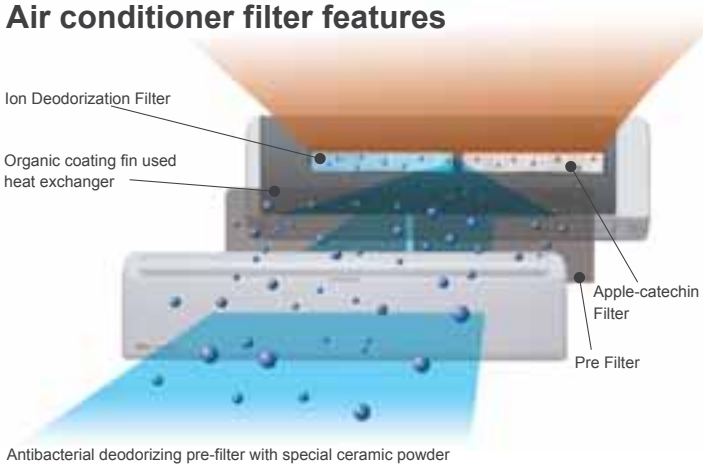
Power diffuser

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

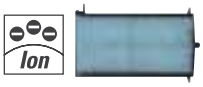
Specifications

Model No.	Indoor unit		ASYA18LE	ASYA24LC	ASYA30LC
	Outdoor unit		AOYR18LE	AOYR24LC	AOYR30LC
Power Source		V/Ø/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		6.30 (0.9~9.1)	8.10(0.9~10.6)	9.00(2.2~11.0)
Input Power	Cooling/Heating	kW	1.52/1.71	2.21/2.24	2.66/2.64
EER - Energy Class	Cooling	W/W	3.42-A	3.21-A	3.01-B
COP - Energy Class	Heating		3.68-A	3.62-A	3.41-B
Running Current	Cooling/Heating	A	6.8/7.6	9.7/9.8	11.7/11.6
Moisture Removal		l/h	2.8	3.0	3.4
Noise (Indoor)	Cooling H/M/L/Q	dB(A)	43/37/33/26	47/41/36/32	47/41/36/32
Noise (Outdoor)	Cooling		50	52	53
Airflow Rate (High)	Indoor/Outdoor	m^3/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)	62(137)
Piping Connections (Small / Large)		mm	16/29	6.35/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	22.0/25.6	16/29	16/29
Max Pipe Length (Chargeless)		m	25(15)	30(15)	50(20)
Height Difference			20	20	30
Operation Range	Cooling	°CDB	-10~43	-10~43	-10~43
	Heating		-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

Air conditioner filter features



Antibacterial deodorizing pre-filter with special ceramic powder

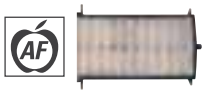


Long-life* Ion Deodorization Filter

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.

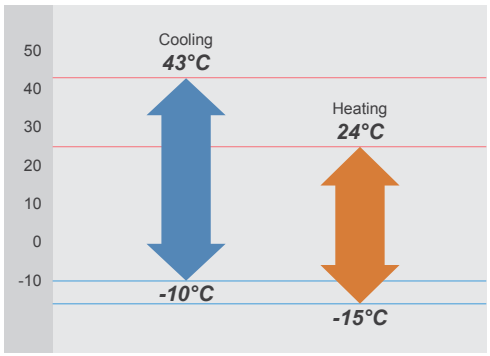
Flexible Installation

	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



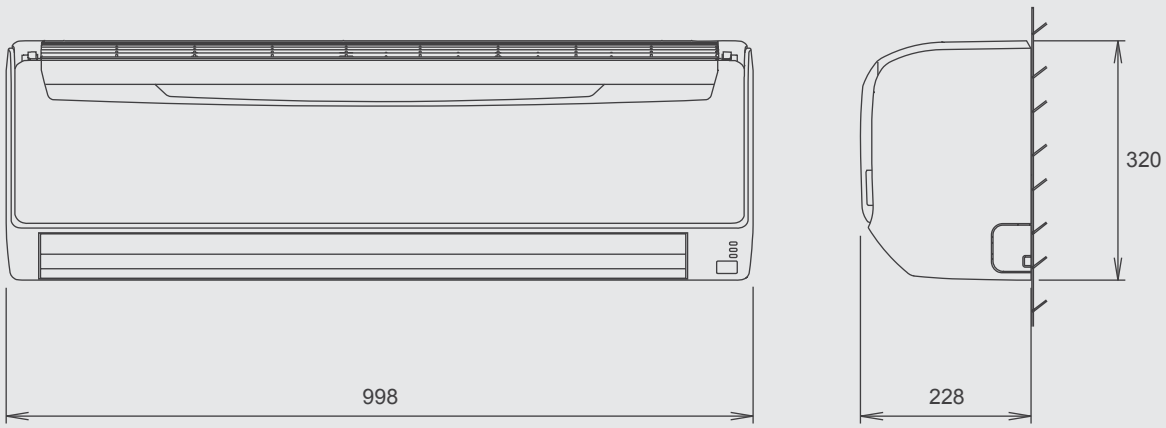
Optional parts

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

Dimensions

Models: ASYA18LE / ASYA24LC / ASYA30LC

(Unit : mm)



Wall Mounted

ASY7UB ASY9UC ASY12UC

ASY14UB

Specifications

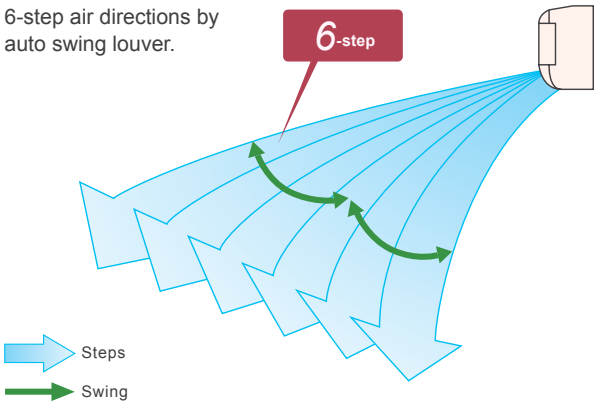
Model No.	Indoor unit		ASY7UB	ASY9UC	ASY12UC	ASY14UB
	Outdoor unit		AOY7UB	AOY9UC	AOY12UC	AOY14UB
Power Source		V/Ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.20	2.60	3.25	4.25
	Heating		2.30	2.95	3.95	4.80
Input Power	Cooling/Heating	kW	0.83/0.75	1.07/0.90	1.35/1.28	1.38/1.27
EER - 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	dB(A)	38/35/33/29	40/38/35/30	40/38/36/33	43/40/37/33
Noise (Outdoor)	Cooling		43	46	48	47
Airflow Rate (High)	Indoor / Outdoor	m^3/h	380/1350	540/1350	540/1700	700/1670
Net Dimension H x W x D	Indoor	mm	257x808x187	257x808x187	257x808x187	275x790x215
		kg(lbs)	8(18)	8(18)	8(18)	9(20)
	Outdoor	mm	535x650x250	535x650x250	535x650x250	535x780x250
		kg(lbs)	26(57)	28(62)	31(68)	37(82)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
Drain Pipe Diameter (Inner/Outer)			14/25.5	14/25.5	14/25.5	14/25.5
Max Pipe Length (Chargeless)		m	10(7.5)	15(7.5)	15(7.5)	15(7.5)
Max Height Difference			5	8	8	8
Operation Range	Cooling	°C	21~43	21~43	21~43	21~43
	Heating		-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	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.



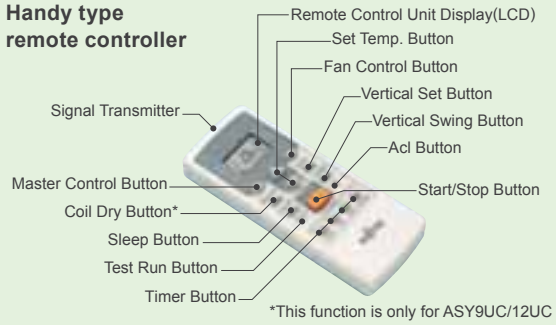
Symmetrical design

Symmetrical, clean design that suits all interiors.

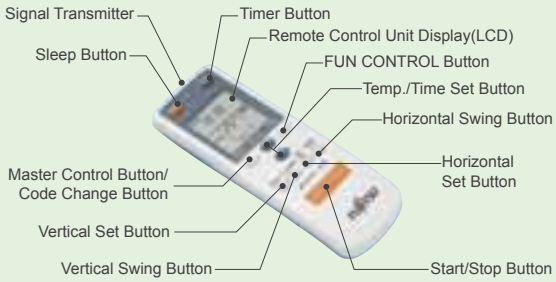
Easy maintenance

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

Handy type remote controller



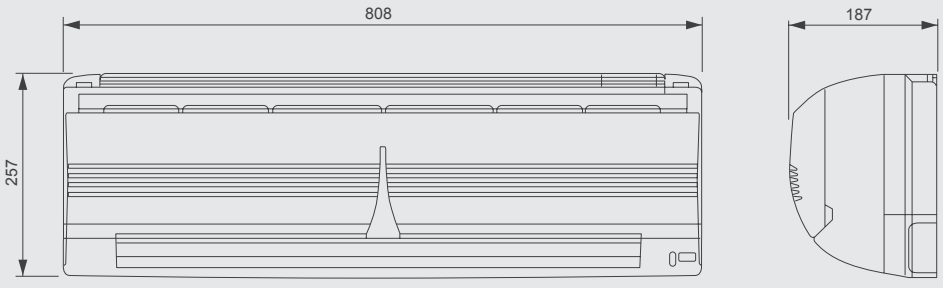
*This function is only for ASY9UC/12UC

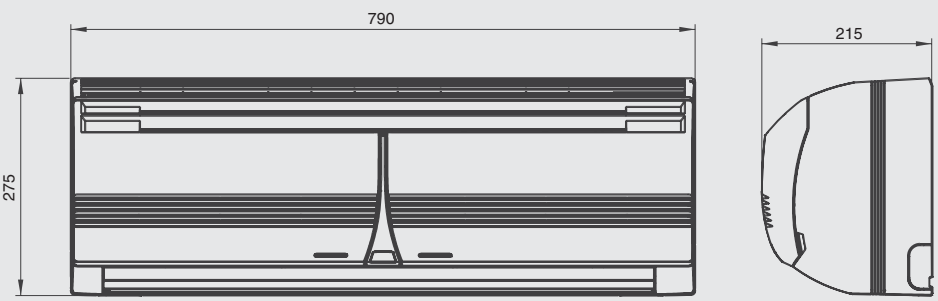


Dimensions

Models: ASY7UB / ASY9UC / ASY12UC / ASY14UB

(Unit : mm)





Wall Mounted

Powerful output in spite of small size

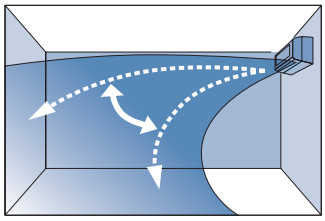
Though the indoor unit is compact, it features a large, high pressure cross fan (107mm diameter) in a center mounted configuration and a lambda type heat exchanger to provide plenty of power. The extra long diffuser provides a wide outflow opening for air. This ensures a large air outflow volume over 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/Ø/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			52	53	54
Airflow Rate (High)	Indoor/Outdoor		m^3/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				8	8	15
Operation Range	Cooling		°CDB	0~43	0~43	0~43
	Heating			-6~24	-6~24	-6~24
Refrigerant				R410A	R410A	R410A

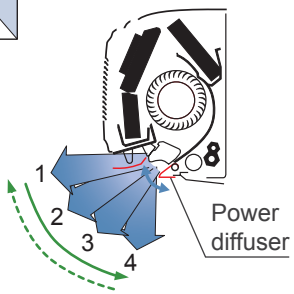
Multi airflow

Large independently driven power diffuser used

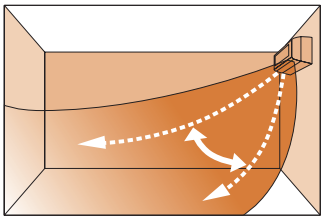


Cooling

Horizontal concentration and other air direction control

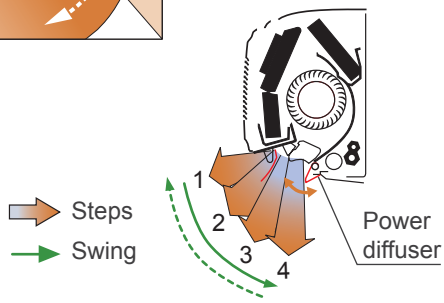


Large independently driven power diffuser



Heating

Wide down flow



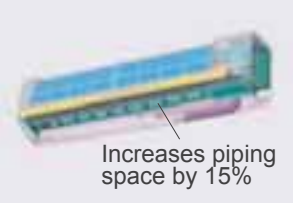
Low noise

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

Low noise 33dB (ASY18)

Easy installation

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



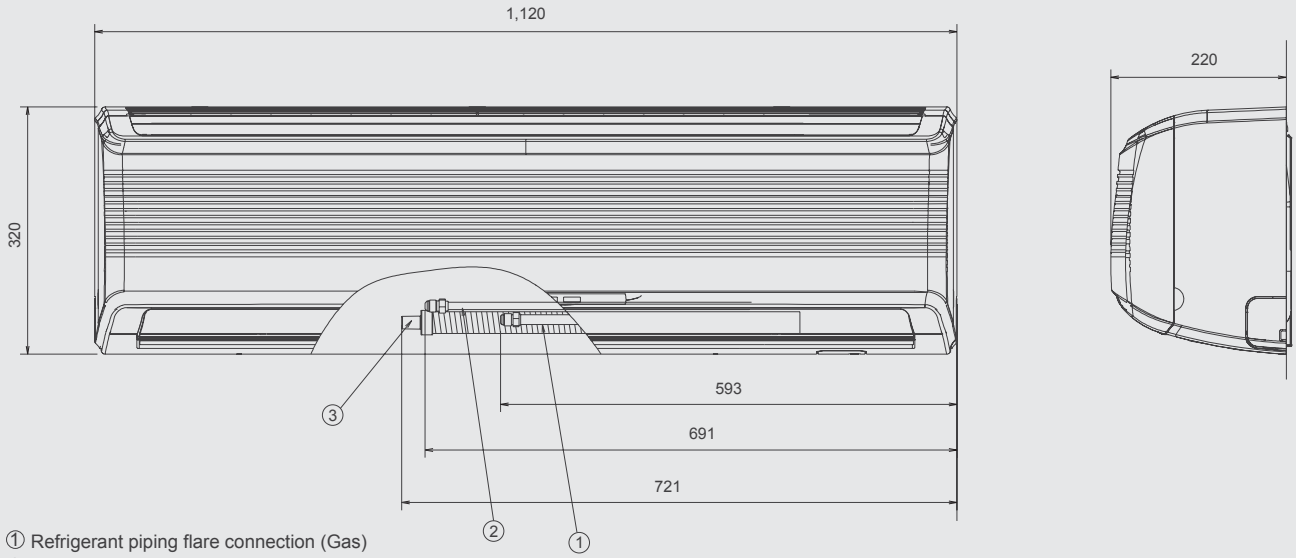
Others

- 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

Floor

Simple & Thin design
harmonizes with the interior

V-PAM | Up/Down | Adjust | Restart | Auto Changeover | 10°C HEAT | Economy | Sleep | Program | W+S | Ion | AF | Coil Dry | Wash | Max.4

Wired R.C.

Wireless R.C.

Optional

Wired R.C.

For AGYF09/12LA

For AGYF14LA

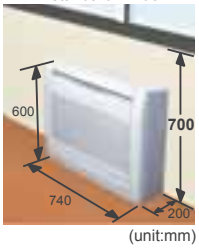
CLASS A ALL DC **AGYF09LA**

CLASS A ALL DC **AGYF12LA**

CLASS A ALL DC **AGYF14LA**

Flexible & easy installation

Beneath standard window

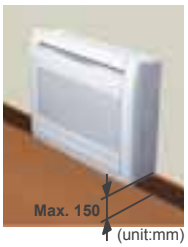


(unit:mm)

Standard concave portion

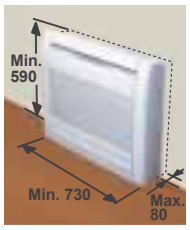
(unit:mm)

Wall



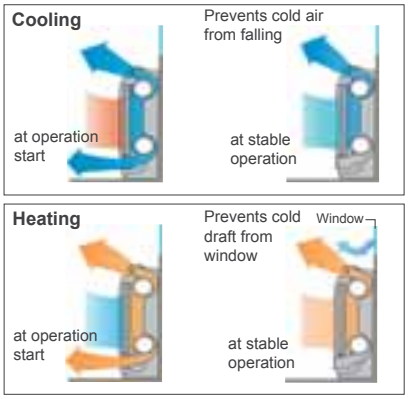
(unit:mm)

Half concealed
(Optional parts necessary)



(unit:mm)

2-Fan & Wide airflow



Specifications

Model No.	Indoor unit		AGYF09LA	AGYF12LA	AGYF14LA
	Outdoor unit		AOYV09LA	AOYV12LA	AOYV14LA
Power Source		V/Ø/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		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	m^3/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

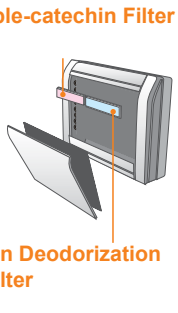
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

(*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.

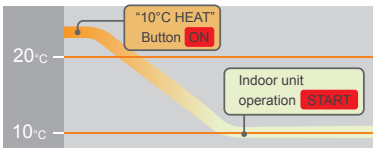


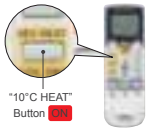
10°C HEAT Operation

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.

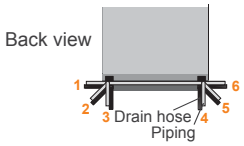




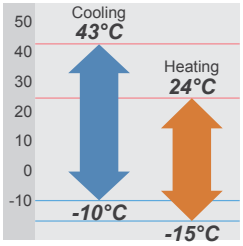
Easy maintenance

Washable panel removable

Flexible piping connection 6 direction of drain & piping



Low ambient operation



Quiet operation

Industry leading noise levels

Fan speed	Low level
Quiet	22 dB(A)

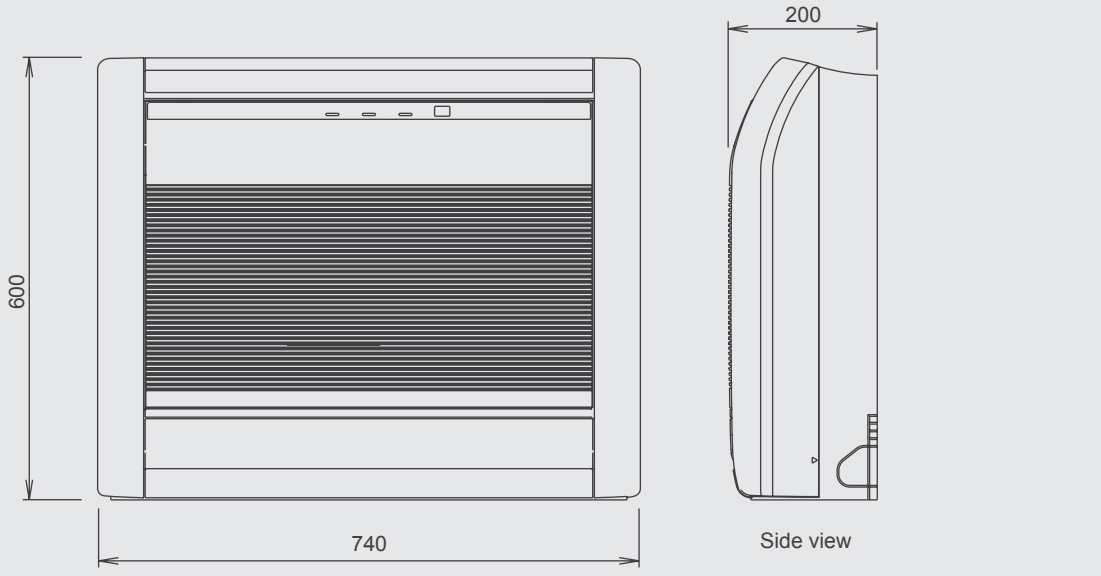
Optional parts

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

Dimensions

Models: AGYF09LA / AGYF12LA / AGYF14LA

(Unit : mm)



Front view

Side view

INVERTER

Compact Cassette

Powerful wide air flow
& Quiet operation

V-PAM | Up/Down | Adjust | Restart | Auto Changeover | Economy | Sleep | Program | W+S | Filter | Max.3 | Max.4

Wired R.C. Optional

(18/24) (12/14/18)

Grille is an option

Wireless R.C.

Optional

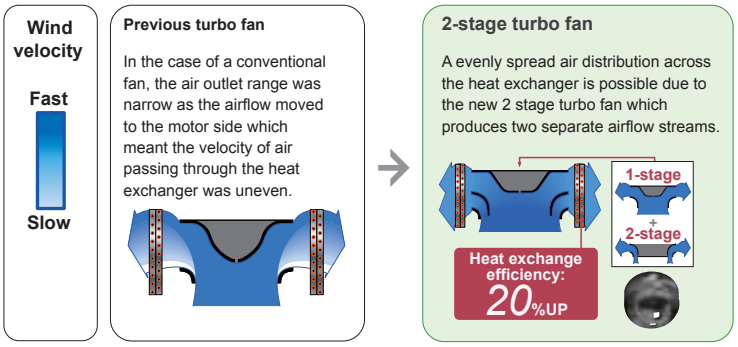
Wired R.C.

Compact Outdoor Unit

CLASS A	ALL DC
AUYF12LA	
AUYF14LA	
AUYF18LB	
AUYF24LB	

2-stage turbo fan

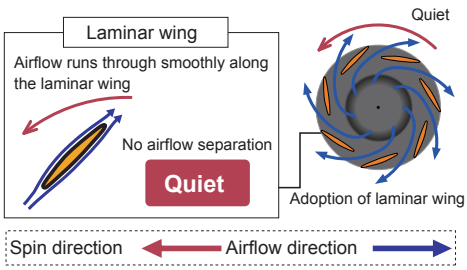
High efficiency design by 2 stage structure



Quiet quality

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

Designed by CFD-analysis (fluid) simulations



Specifications

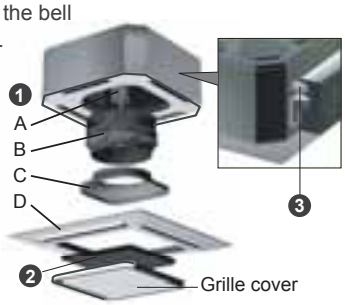
Model No.	Indoor unit		AUYF12LA	AUYF14LA	AUYF18LB	AUYF24LB
	Outdoor unit		AOYA12LA	AOYA14LA	AOYA18LA	AOYA24LA
Power Source		V/Ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	3.50	4.30	5.20	7.10
	Heating		4.10	5.00	6.00	8.00
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66	2.21/2.21
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^3/h	600/1780	680/1910	680/2000	930/2470
Net Dimension H x W x D	Indoor / Grille	mm	245×570×570/ 50x700x700	245×570×570/ 50x700x700	245×570×570/ 50x700x700	245×570×570/ 50x700x700
		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	578x790x300	578x790x315
		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

❶ 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



❷ Long life filter

: standard equipment

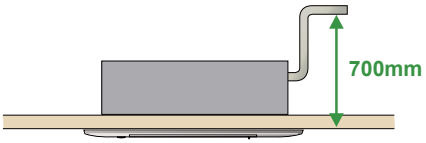
❸ Adaptation of transparent drainage parts

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

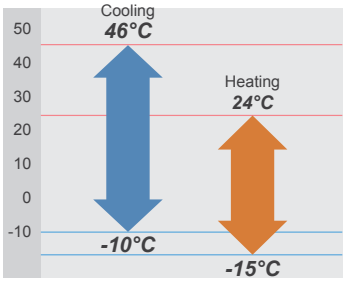
Compact design

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

High lift drain pump



Low ambient operation



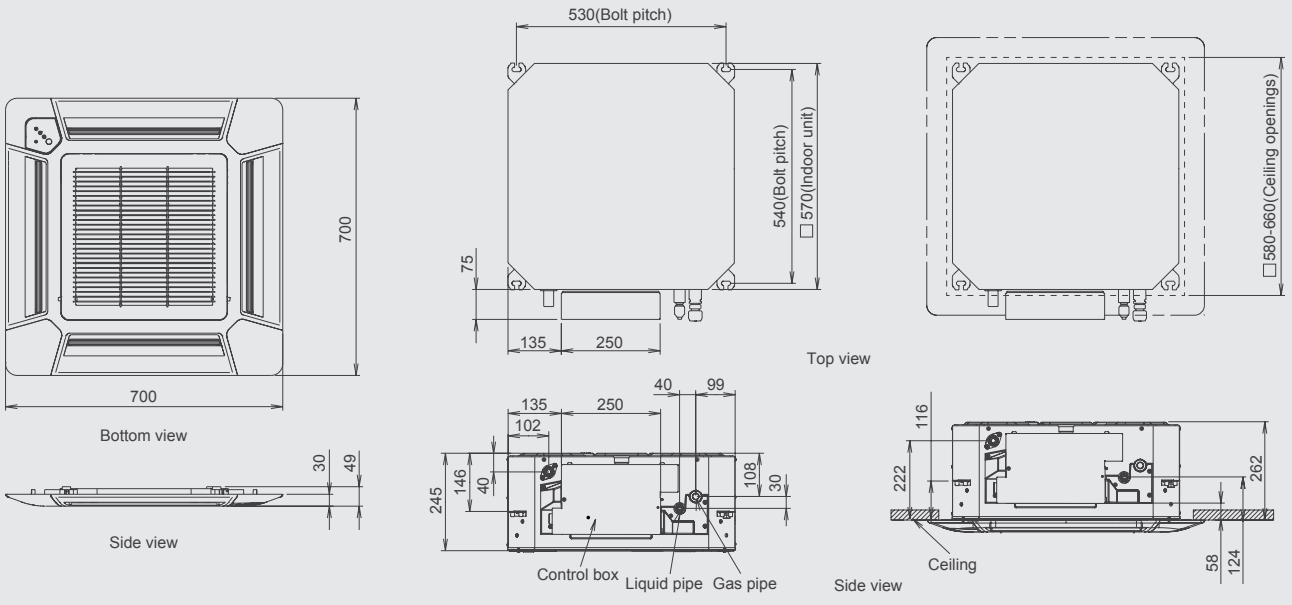
Optional parts

Air Outlet Shutter Plate:	UTR-YDZB
Wired Remote Controller:	UTB-YUD
Insulation Kit For High Humidity:	UTZ-KXGC

Dimensions

Models: AUYF12LA / AUYF14LA / AUYF18LB / AUYF24LB

(Unit : mm)

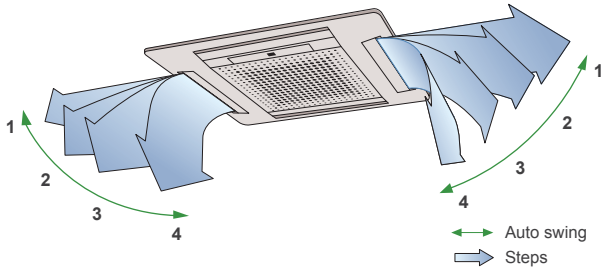


Compact Cassette

Comfortable air flow

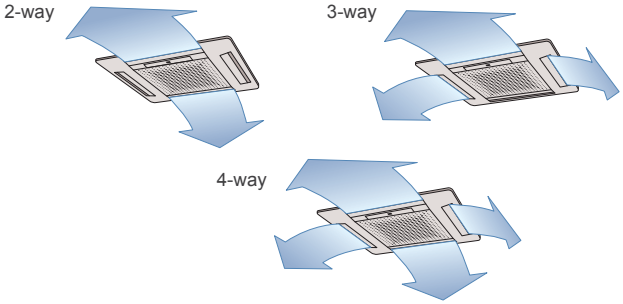
4 step swing

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.

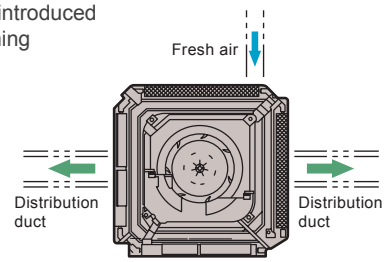


Specifications

Model No.	Indoor unit		AUY12UB	AUY14UB	AUY18UB
	Outdoor unit		AOY12UB	AOY14UB	AOY18UB
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	m^3/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

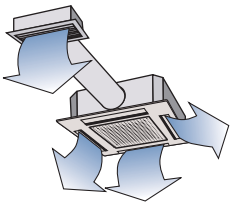
Duct connection hole opening

Fresh air can be introduced through this opening

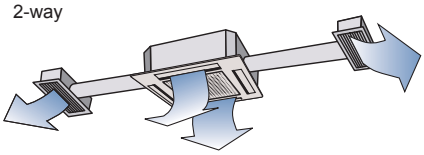


Conditioned air can be distributed by means of a distribution duct

1-way

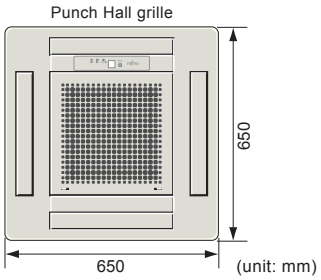


2-way

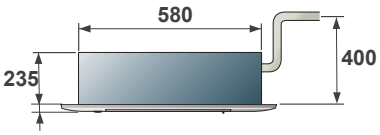


Compact size

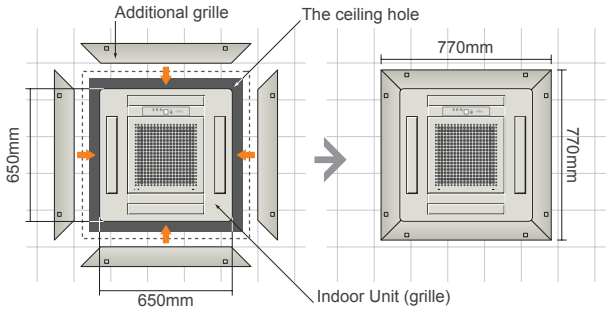
Compact grille fits European ceiling panel (650 x 650 mm)



Condensate pump lift to 400mm



Additional grille (optional parts)



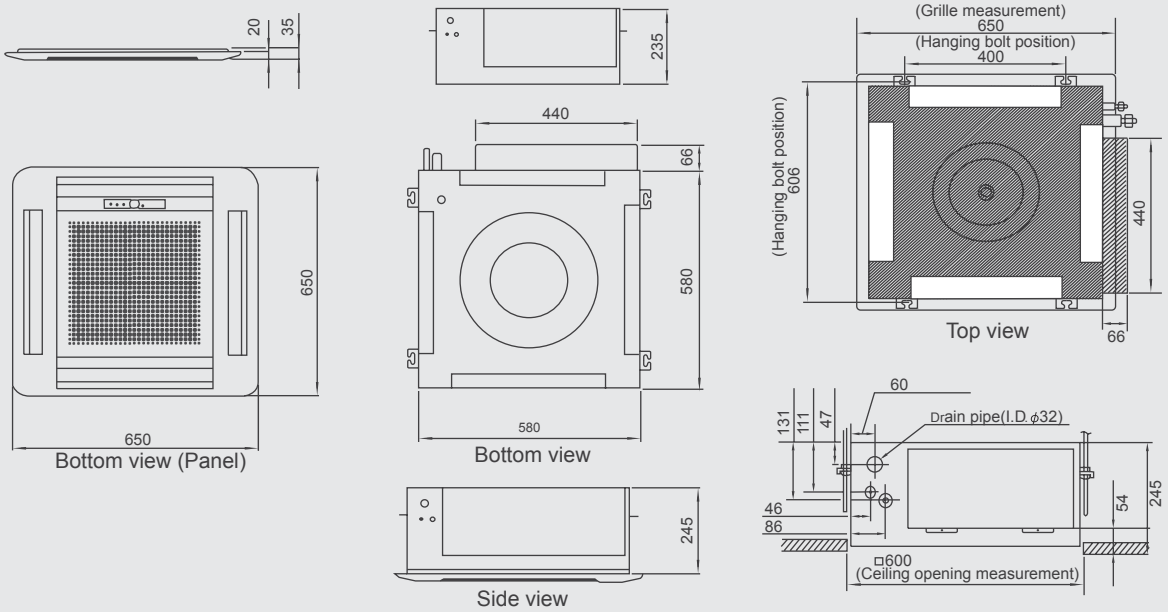
Optional parts

Additional Grille: UTG-AGDA-W

Dimensions

Models: AUY12UB / AUY14UB / AUY18UB

(Unit : mm)



INVERTER
Cassette

Powerful wide air flow & Quiet operation

V-PAM | Up/Down | Adjust | Restart | Auto Changeover | Economy | Sleep | Program | W+S | Filter

Wireless R.C. (Optional)

Grille is an option

Wired R.C.

Optional

IR Receiver Kit

For AUYA30/36LB

For AUYA45LC (For single phase)

For AUYA36/45/54LC (For 3 phase)

CLASS A ALL DC

AUYA30LB

CLASS A ALL DC

AUYA36LB
AUYA36LC NEW

CLASS A ALL DC

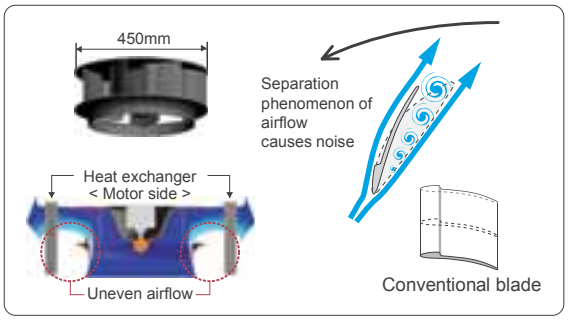
AUYA45LC NEW

CLASS A ALL DC

AUYA54LC NEW

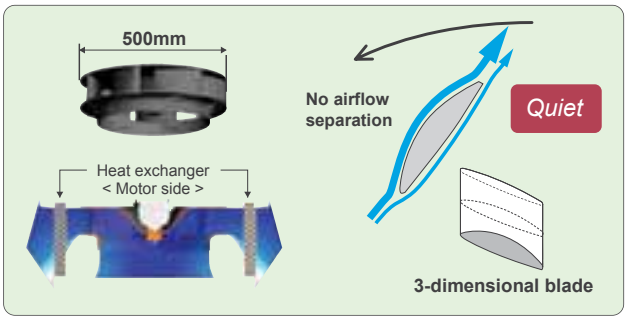
High efficiency turbo fan with 3-dimensional blade

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



Wind velocity
Fast
Slow

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.



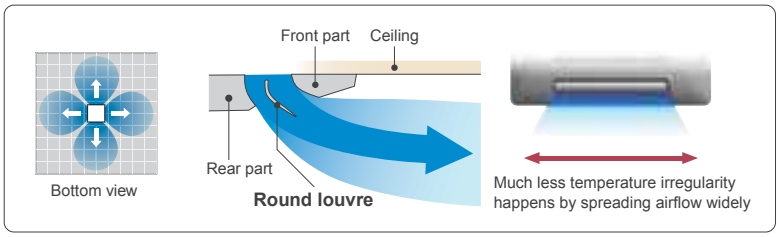
: Spin direction : Airflow direction : Turbulent flow noise

Specifications

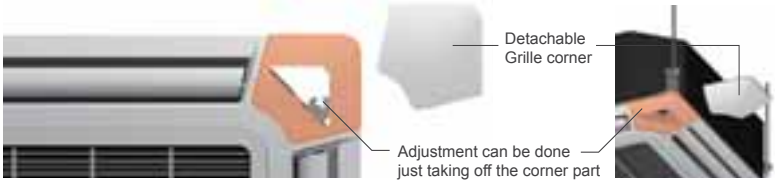
Model No.	Indoor unit		AUYA30LB	AUYA36LB	AUYA36LC	AUYA45LC	AUYA45LC	AUYA54LC
	Outdoor unit		AOYA30LB	AOYA36LB	AOYD36LA	AOYA45LB	AOYD45LA	AOYD54LA
Power Source		V/Ø/Hz	230/1/50	230/1/50	400/3/50	230/1/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.50	10.00	10.00	12.50	12.50	14.00
	Heating		10.00	11.20	11.20	14.00	14.00	16.00
Input Power	Cooling/Heating	kW	2.65/2.77	3.11/3.02	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		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	3.0	3.0	5.0	4.5	5.0
Noise (Indoor)	Cooling H/M/L/Q	dB(A)	40/38/36/32	43/38/36/32	44/39/36/33	46/42/40/36	46/42/40/36	47/43/41/37
Noise (Outdoor)	Cooling		54	54	51	55	54	55
Airflow Rate (High)	Indoor / Outdoor	m^3/h	1600/3600	1800/4000	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	1290×900×330	1290×900×330	1290×900×330	1290×900×330
		kg(lbs)	62(137)	62(137)	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

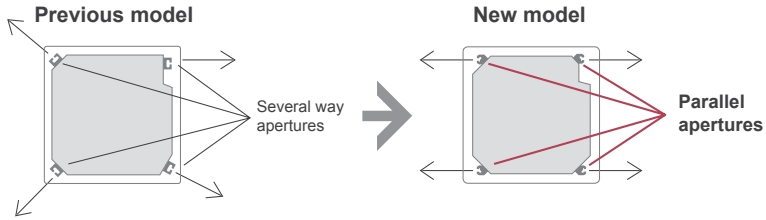
New louvre: The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.



Adjustment of hanger position is possible after installation

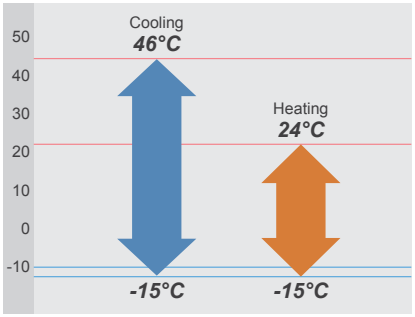


One way aperture installation



High lift drain pump

Low ambient operation



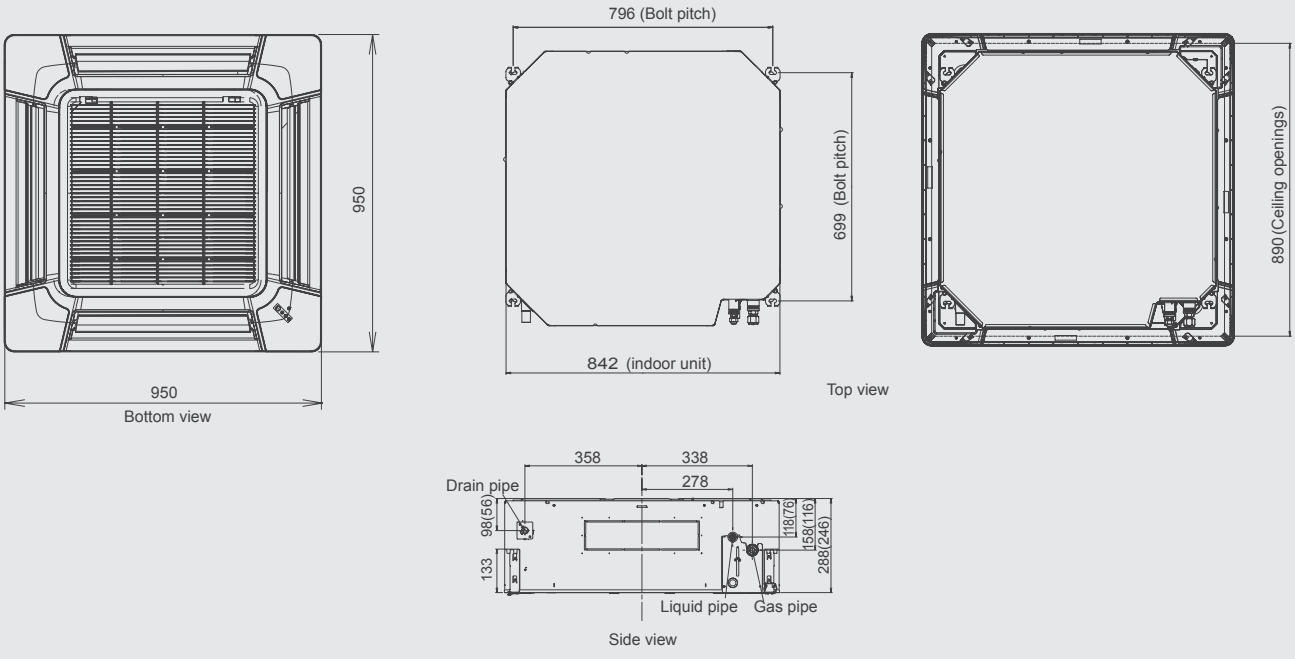
Optional parts

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

Dimensions

Models: AUYA30LB / AUYA36LB / AUYA36LC / AUYA45LC / AUYA54LC

(Unit : mm)



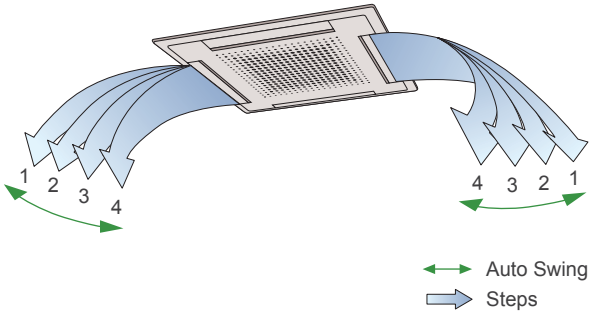
INVERTER

Cassette

Comfortable airflow

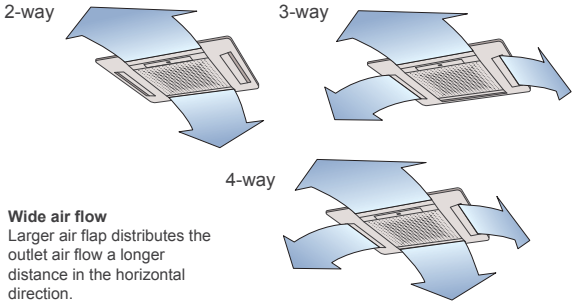
4 step swing

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.



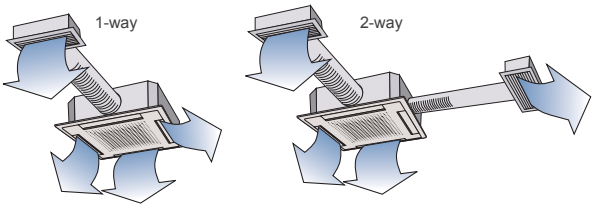
Wide air flow
Larger air flap distributes the outlet air flow a longer distance in the horizontal direction.

Specifications

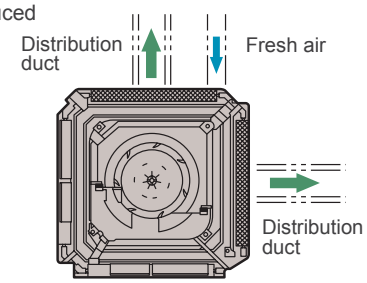
Model No.	Indoor unit		AUYA45LA	AUY54LU
	Outdoor unit		AOYA45LA	AOY54LU
Power Source		V/Ø/Hz	230/1/50	230/1/50
Capacity	Cooling	kW	12.50	13.30
	Heating		14.00	16.00
Input Power	Cooling/Heating	kW	3.89/3.77	5.45/4.95
EER - Energy Class	Cooling	W/W	3.21-A	2.44
COP - Energy Class	Heating		3.71-A	3.23
Running 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^3/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	1290×900×330	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
Height Difference			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



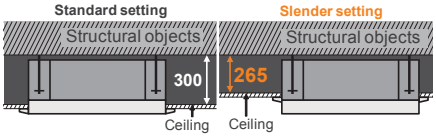
Fresh air can be introduced through this opening



Flexible installation

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

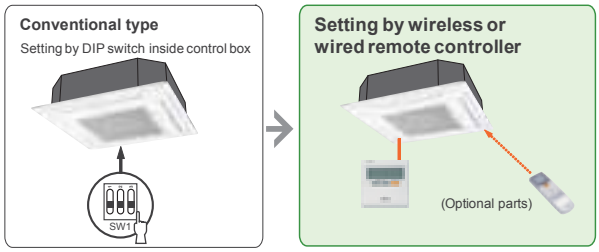
Installation Space (Built-in measurement)



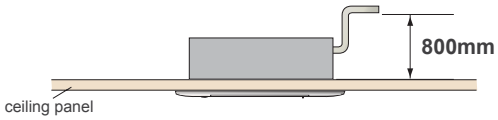
Easy installation (For 45LA)

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



Condensate pump lift to 800mm



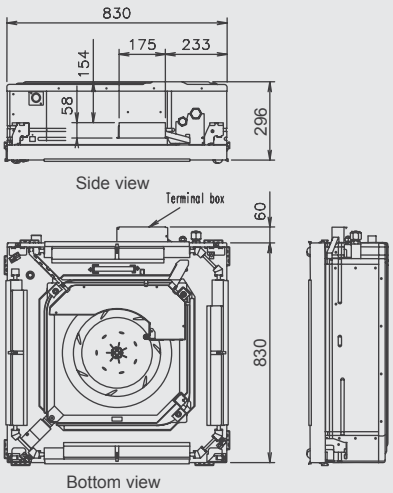
Optional parts

Wireless Remote Controller: UTB-YNA (for 45LA)
Additional Grille: UTG-AGEA-W

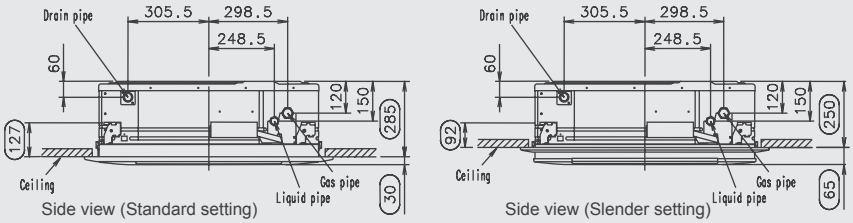
Dimensions

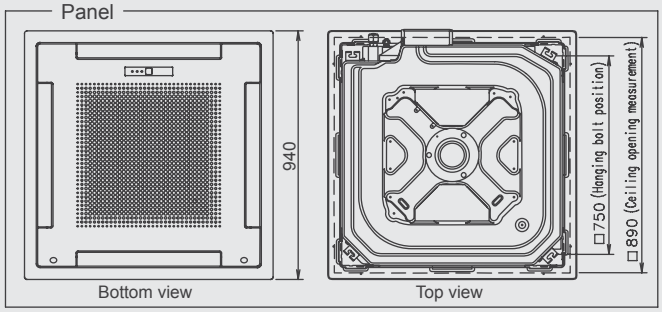
Models: AUYA45LA / AUY54LU

(Unit : mm)

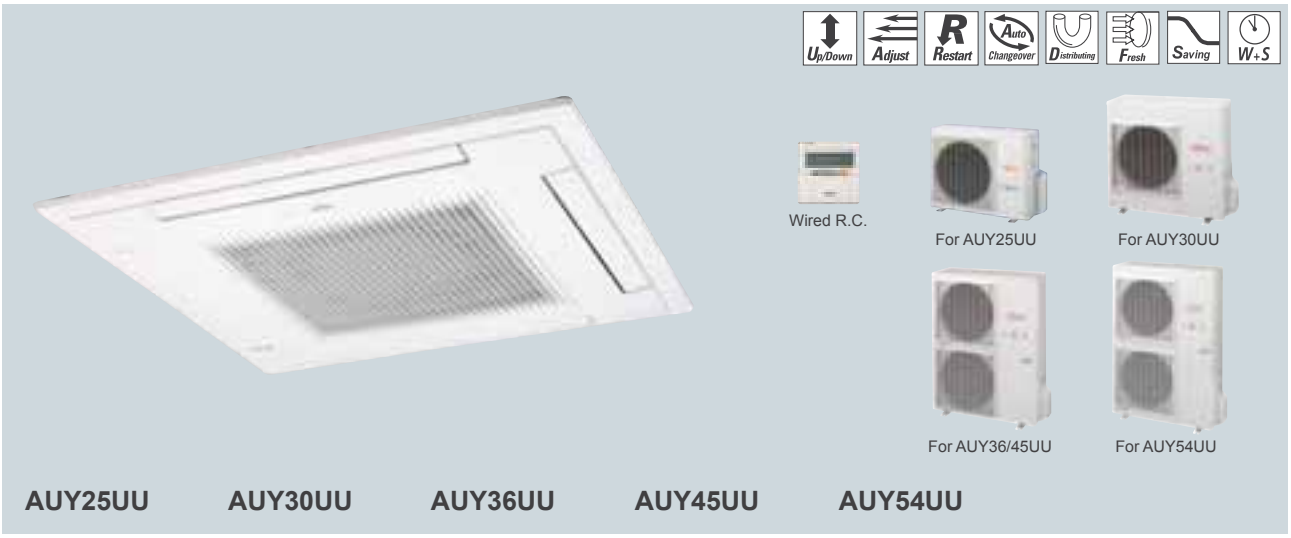


Selection of setting





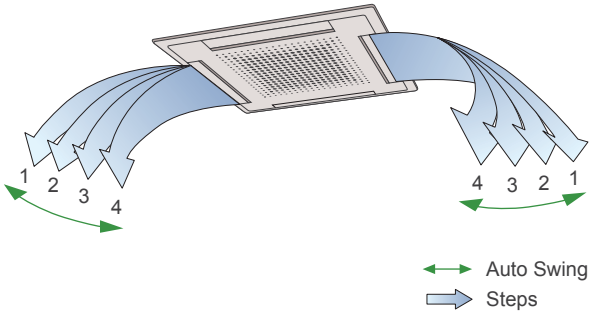
Cassette



Comfortable airflow

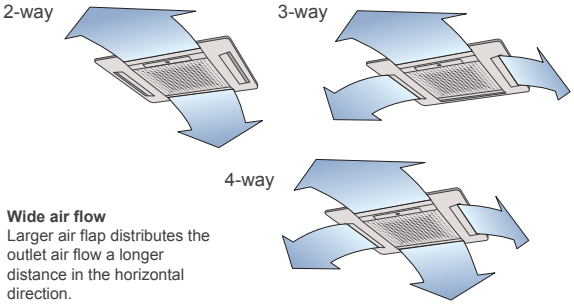
4 step swing

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.



Wide air flow
Larger air flap distributes the outlet air flow a longer distance in the horizontal direction.

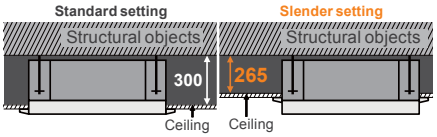
Specifications

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	m^3/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			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)



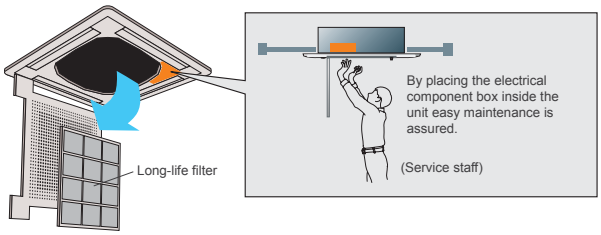
	25UU/30UU	36UU/45UU/54UU
Standard setting	250mm	300mm
Slender setting	**215mm**	**265mm**

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

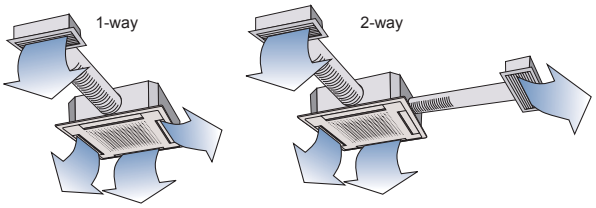


Long-life filter

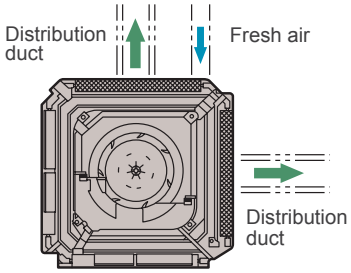
High efficiency, long-life filter extends the cleaning cycle.

Duct connection hole opening

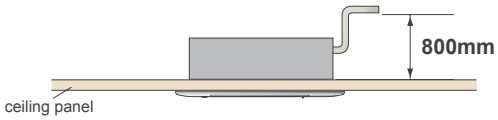
Conditioned air can be distributed by means of a distribution duct



Fresh air can be introduced through this opening



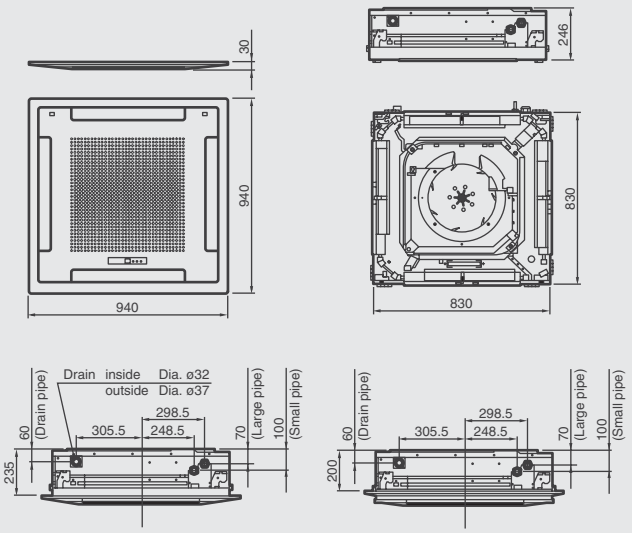
Condensate pump lift to 800mm



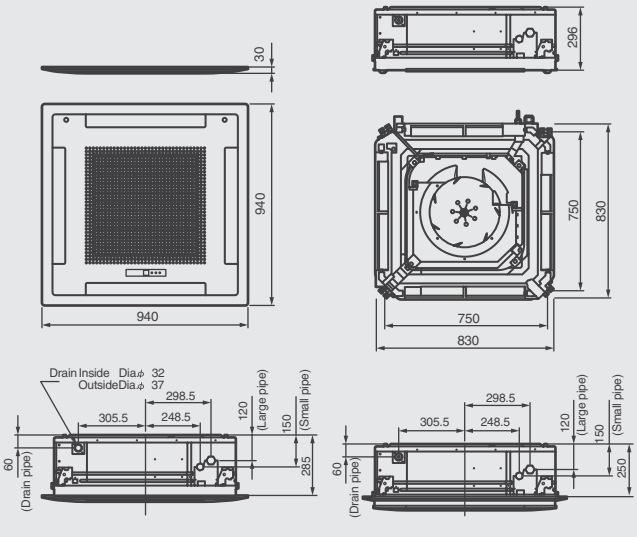
Dimensions

(Unit : mm)

Models: AUY25UU / AUY30UU



Models: AUY36UU / AUY45UU / AUY54UU



INVERTER

Floor/Ceiling Universal

CLASS A ALL DC **ABYF18LB**

CLASS A ALL DC **ABYF24LB**

Flexible installation

Example for floor installation

Floor console

Example for ceiling installation

Under ceiling

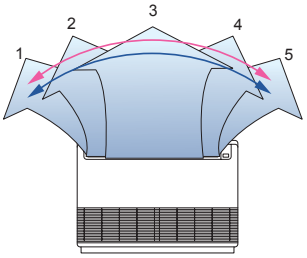
Specifications

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^3/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

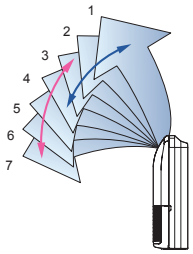
A combination of right/left and up/down directional swing allows 3-dimensional air direction control

Right and Left Swing



5 steps selectable

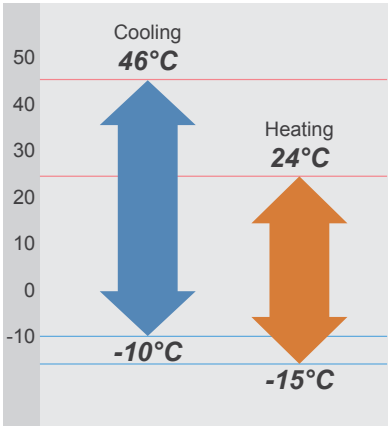
Up and Down Swing



7 steps selectable

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

Low ambient operation



Easy installation

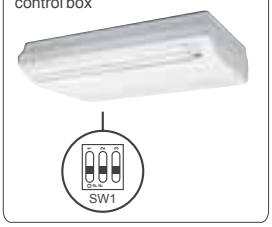
Main work settings can be done easily from the remote controller at installation

Main work settings

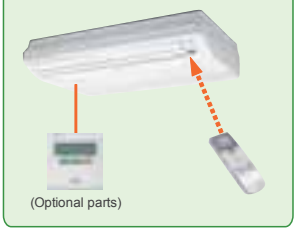
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

Conventional type

Setting by DIP switch inside control box



Setting by wireless or wired remote controller



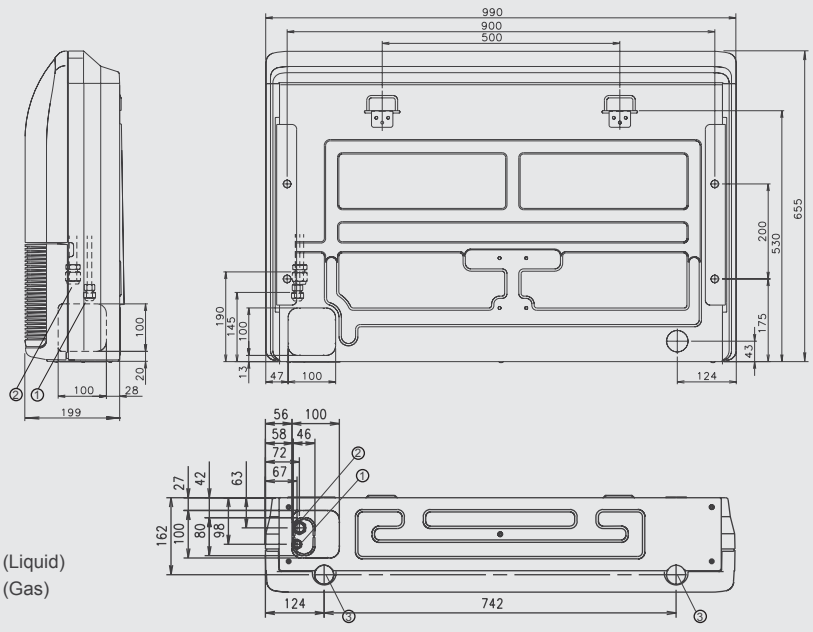
Optional parts

Wired Remote Controller: UTB-YUD

Dimensions

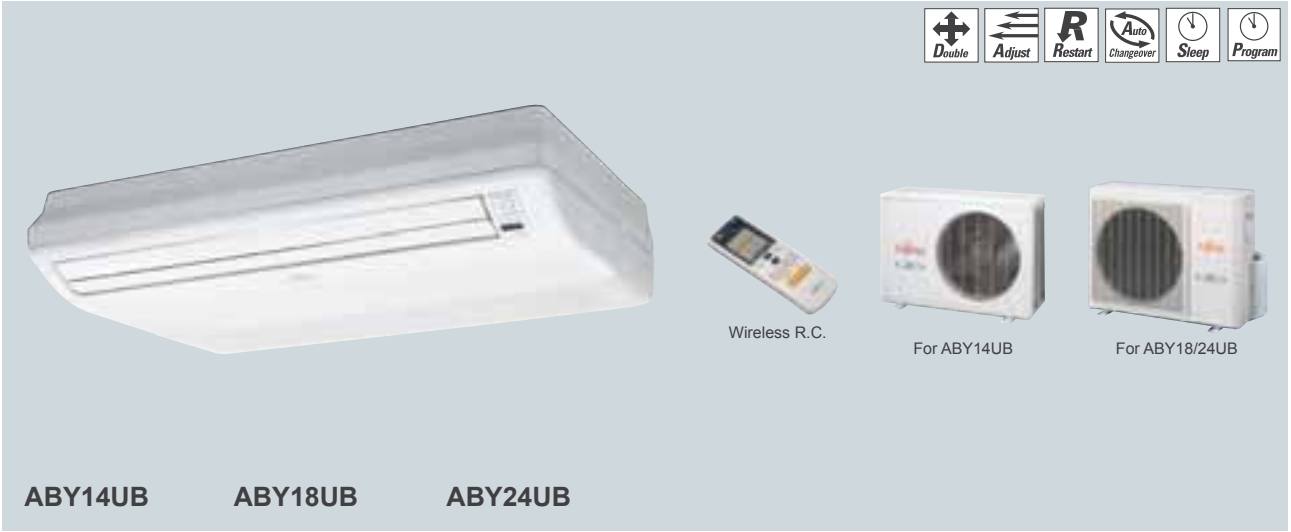
Models: ABYF18LB / ABYF24LB

(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

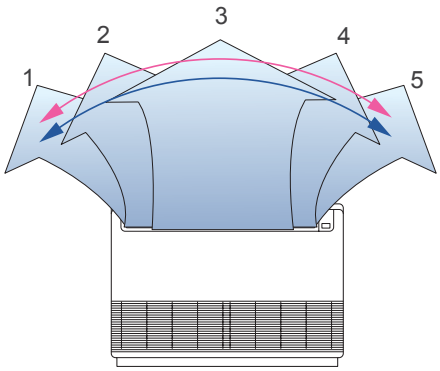
Specifications

Model No.	Indoor unit		ABY14UB	ABY18UB	ABY24UB
	Outdoor unit		AOY14UB	AOY18UB	AOY24UB
Power Source		V/Ø/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	W/W	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		l/h	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^3/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			8	8	8
Operation Range	Cooling	°CDB	0~43	0~43	0~43
	Heating		-6~24	-6~24	-6~24
Refrigerant			R410A	R410A	R410A

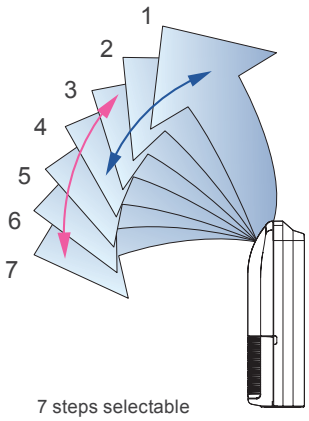
Double auto swing

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

RIGHT and LEFT SWING



UP and DOWN SWING



7 steps selectable

Super vane

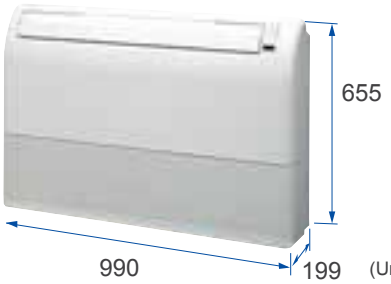
Double Louvre Super vane with newly developed special configuration boosts airflow sending cool air quickly to every corner of the room.

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.

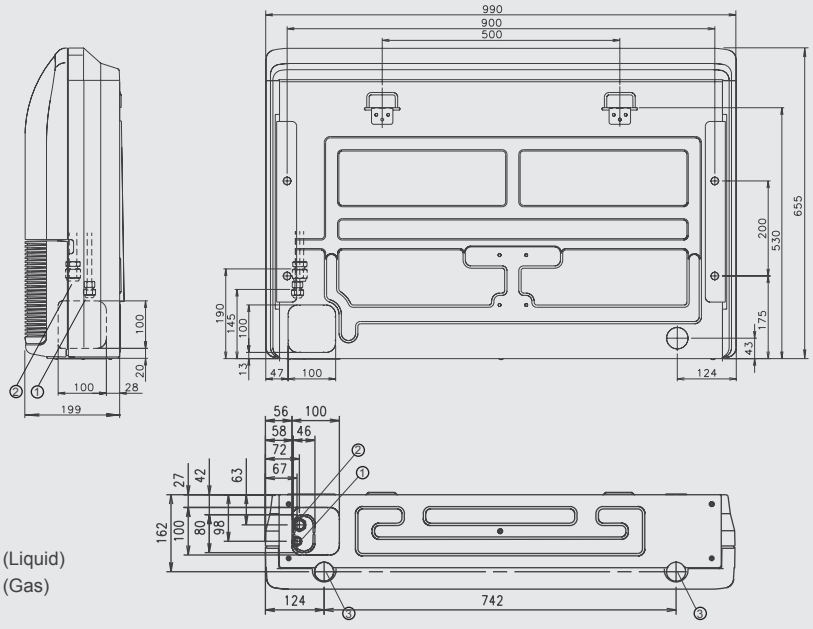


(Unit : mm)

Dimensions

Models: ABY14UB /ABY18UB / ABY24UB

(Unit : mm)



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

Ceiling

Easily concealed in any installation

V-PAM (30/36) | i-PAM (45) | Double | Adjust | Restart | Auto Changeover | Fresh | Fresh (Optional) | Economy | Sleep | Program | W+S (Optional) | Filter

Wireless R.C.

Optional

Wired R.C.

For ABYA30/36LB

For ABYA45LC (For single phase)

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

CLASS A ALL DC — **ABYA30LB**

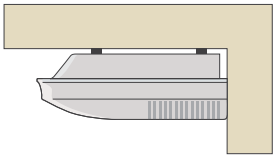
CLASS A ALL DC — **ABYA36LB**
ABYA36LC NEW

CLASS A ALL DC — **ABYA45LC** NEW

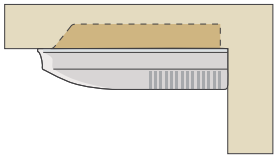
CLASS A ALL DC — **ABYA54LC** NEW

Installation

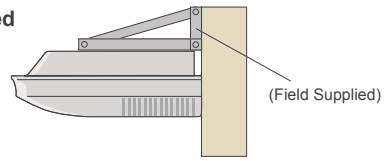
Open



Concealed



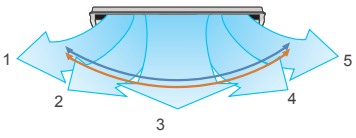
Wall mounted



Multi auto swing

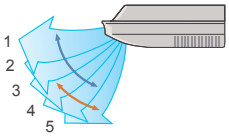
A combination of right/left and up/down directional swing allows 3-dimensional air direction control.

Right and Left Swing



5 steps selectable

Up and Down Swing



5 steps selectable

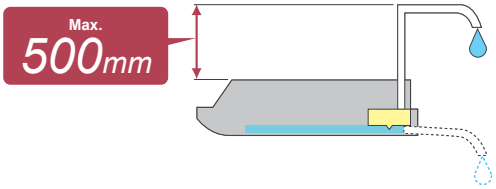
Steps
Swing: Cooling , Dry and Fan mode
Swing: Heating and Fan mode

Specifications

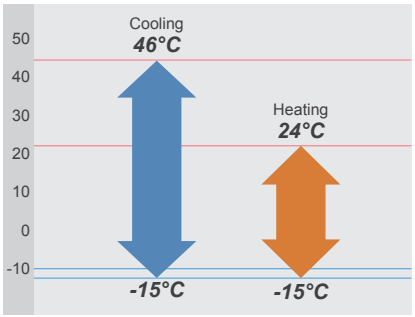
Model No.	Indoor unit		ABYA30LB	ABYA36LB	ABYA36LC	ABYA45LC	ABYA45LC	ABYA54LC
	Outdoor unit		AOYA30LB	AOYA36LB	AOYD36LA	AOYA45LB	AOYD45LA	AOYD54LA
Power Source		V/Ø/Hz	230/1/50	230/1/50	400/3/50	230/1/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.50	9.40	10.00	12.50	12.50	14.00
	Heating		10.00	11.20	11.20	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
COP - Energy Class	Heating		3.61-A	3.71-A	3.9-A	3.71-A	3.61-A	3.43-B
Running Current	Cooling/Heating	A	11.6/12.1	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	dB(A)	45/43/37/32	47/43/37/32	47/43/37/32	49/45/39/34	49/45/39/34	51/48/42/38
Noise (Outdoor)	Cooling		53	54	51	55	54	55
Airflow Rate (High)	Indoor / Outdoor	m^3/h	1600/3600	1900/3600	1900/6200	2100/6600	2100/6900	2300/6900
Net Dimension H x W x D	Indoor	mm	240×1660×700	240×1660×700	240x1660x700	240×1660×700	240x1660x700	240x1660x700
		kg(lbs)	46(101)	46(101)	46(101)	46(101)	46(101)	48(106)
	Outdoor	mm	830x900x330	830x900x330	1290×900×330	1290×900×330	1290×900×330	1290×900×330
		kg(lbs)	62(136)	62(136)	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	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			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.



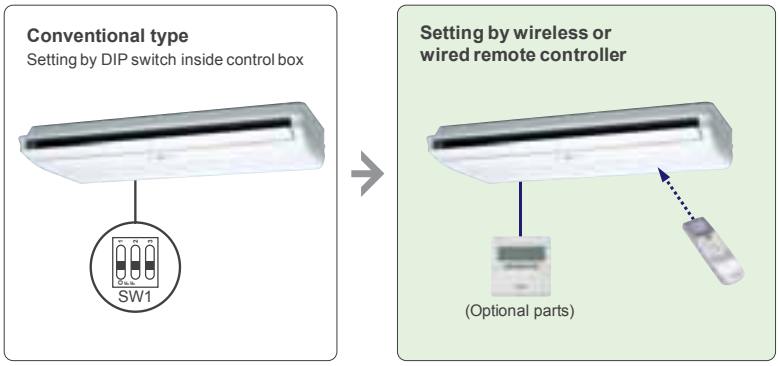
Low ambient operation



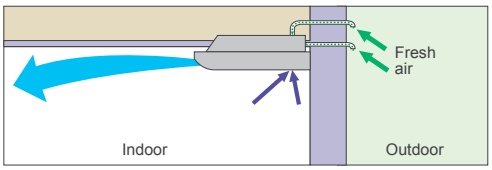
Easy installation

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



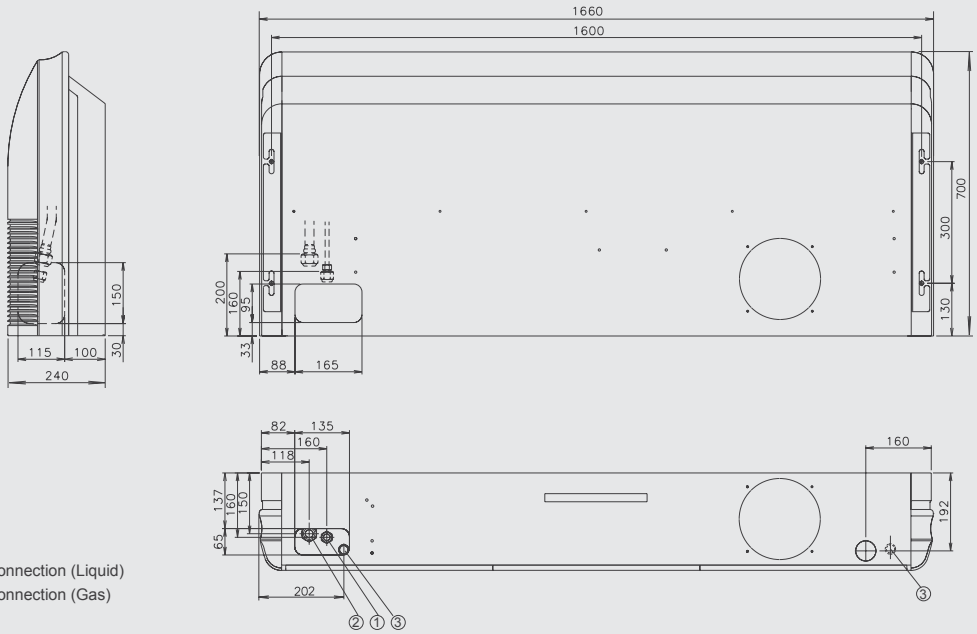
Optional parts

Wired Remote Controller: UTB-YUD
Drain Pump Unit: UTR-DPB24T

Dimensions

Models: ABYA30LB / ABYA36LB / ABYA36LC / ABYA45LC / ABYA54LC

(Unit : mm)

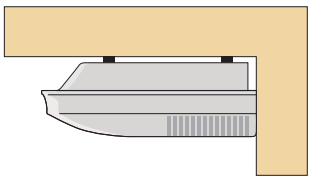


① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Ceiling

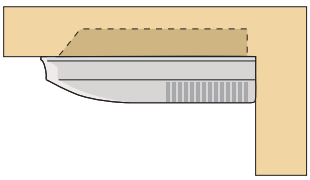
Installation

Open



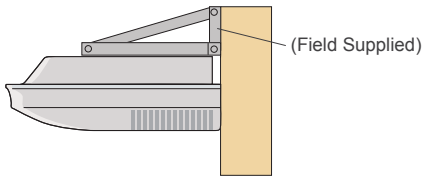
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

Wall mounted



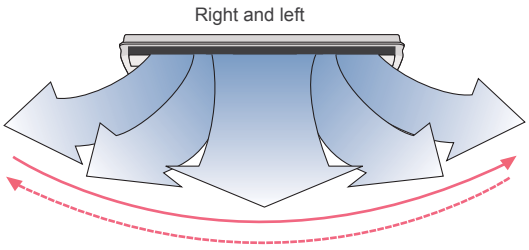
Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Specifications

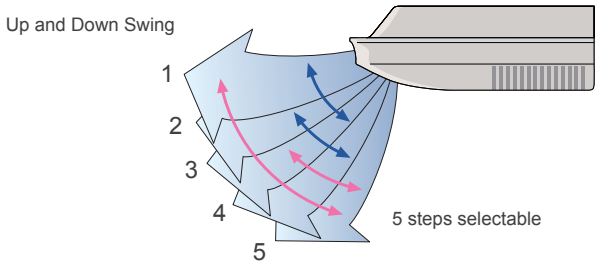
Model No.	Indoor unit		ABY30UB	ABY36UB	ABY45UB	ABY54UB
	Outdoor unit		AOY30UB	AOY36UB	AOY45UB	AOY54UB
Power Source		V/Ø/Hz	230/1/50	400/3/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.40	10.50	12.70	14.50
	Heating		9.50	11.80	14.30	16.50
Input Power	Cooling/Heating	kW	2.95/2.78	3.48/3.45	4.38/4.39	5.16/5.30
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^3/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			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

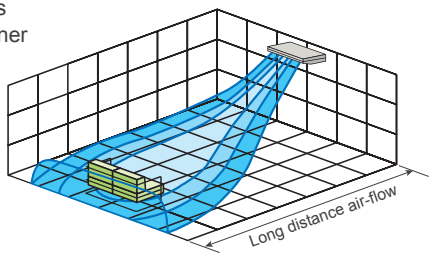


5 steps selectable

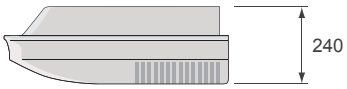


Long Airflow

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



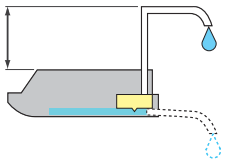
Slim & Compact design



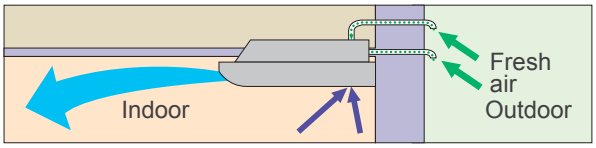
Condensate lift-up mechanism (Option)

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.

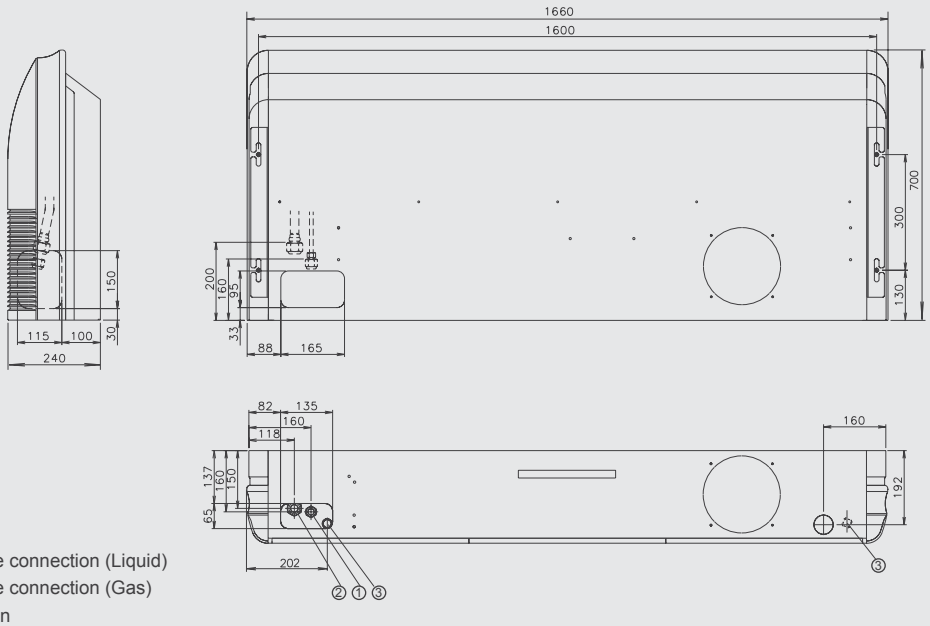
Optional parts

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 | Auto Changeover | Fresh (Optional) | Economy | Sleep (Optional) | Program (Optional) | W+S | Max.3 (18) | Max.4

Wired R.C.

Optional

IR Receiver Unit

CLASS A ALL DC **ARYF12LA**

CLASS A ALL DC **ARYF14LA**

CLASS A ALL DC **ARYF18LB**

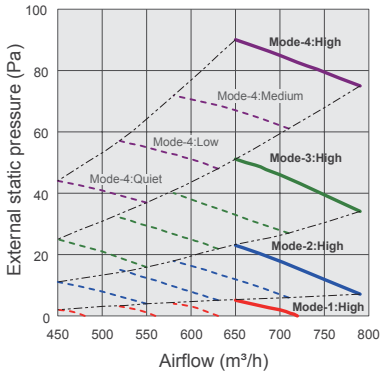
Static pressure mode setting

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

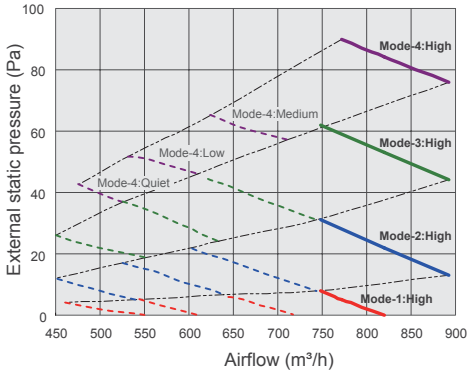
Static pressure range (High speed mode)

ARYF12LA/14LA/18LB	0 to 90 Pa

In case of ARYF12LA



In case of ARYF14LA/18LB

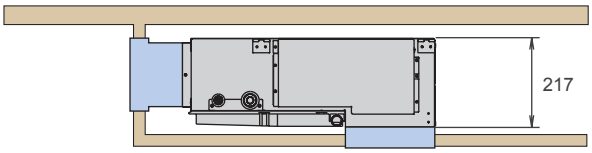


Specifications

Model No.	Indoor unit		ARYF12LA	ARYF14LA	ARYF18LB
	Outdoor unit		AOYA12LA	AOYA14LA	AOYA18LA
Power Source		V/Ø/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

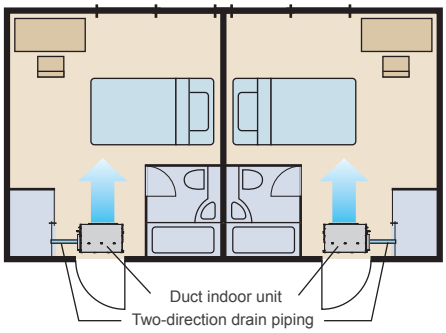
Compact design

Ultra-slim duct air conditioner for easy installation



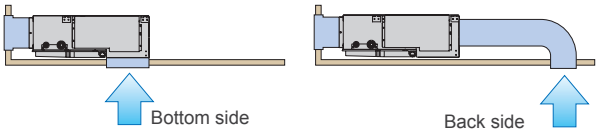
Slim size (217mm) allows installation even where the space behind the ceiling is narrow.

Two-direction drain piping

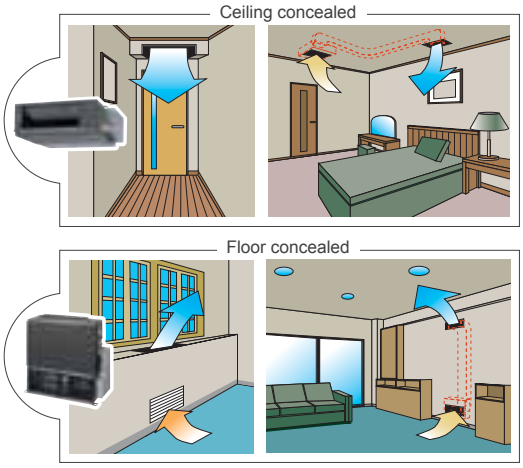


Air-intake

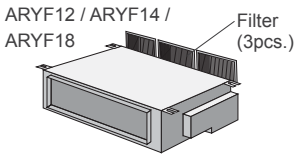
Air intake direction can be selected to match the installation site.



Flexible installation



Filter (Accessory)



Optional parts

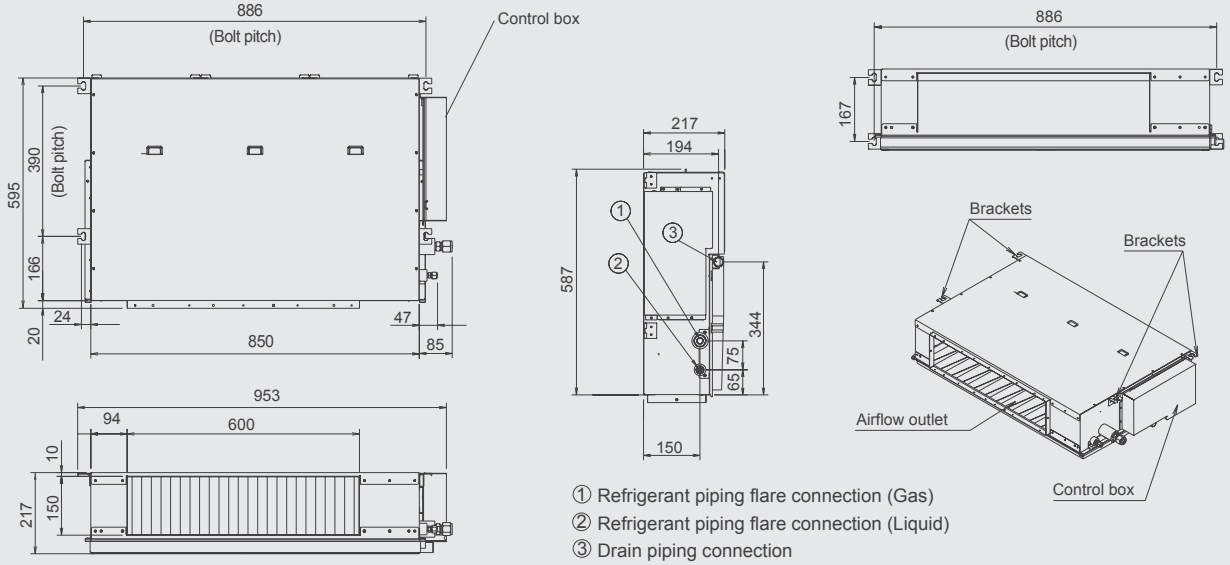
Remote Sensor Unit:	UTD-RS100
IR Receiver Unit:	UTY-LRHY1
Drain Pump Unit:	UTZ-PX1BBA
External Control Set:	UTD-ECS5A

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.

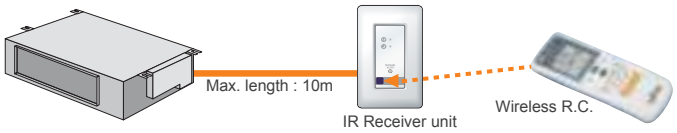


① Refrigerant piping flare connection (Gas)
② Refrigerant piping flare connection (Liquid)
③ Drain piping connection

Compact Duct

Optional function for comfort

Optional parts

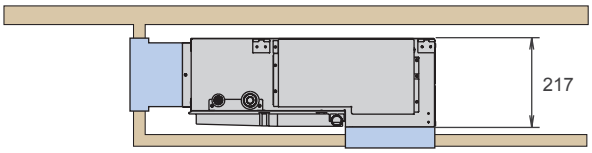


Specifications

Model No.	Indoor unit		ARY7UU	ARY9UU	ARY12UU	ARY14UU	ARY18UU
	Outdoor unit		AOY7UU	AOY9UU	AOY12UU	AOY14UU	AOY18UU
Power Source		V/Ø/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^3/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			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

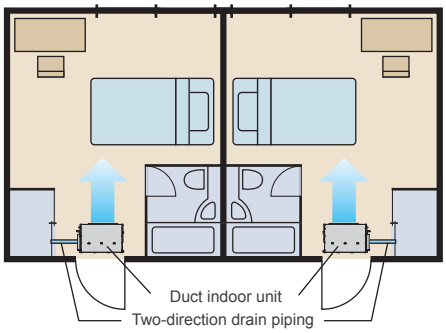
Compact design

Ultra-slim duct air conditioner for easy installation



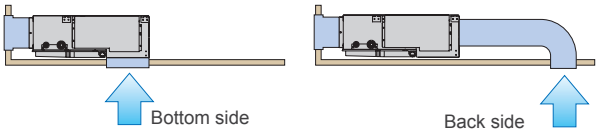
Slim size (217mm) allows installation even where the space behind the ceiling is narrow.

Two-direction drain piping

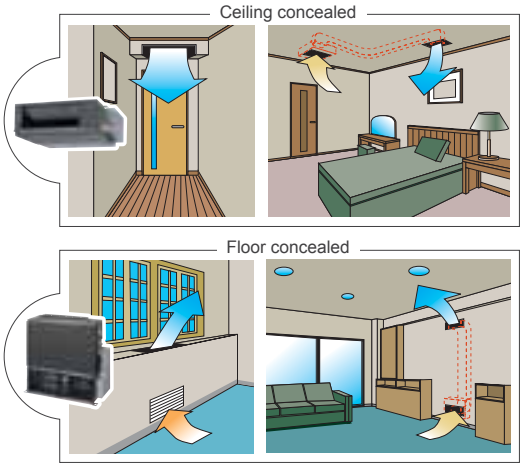


Air-intake

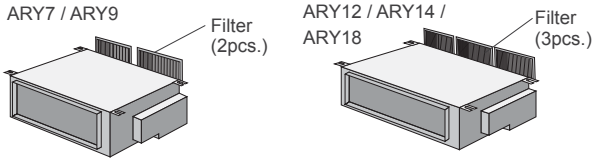
Air intake direction can be selected to match the installation site.



Flexible installation



Filter (Accessory)



Optional parts

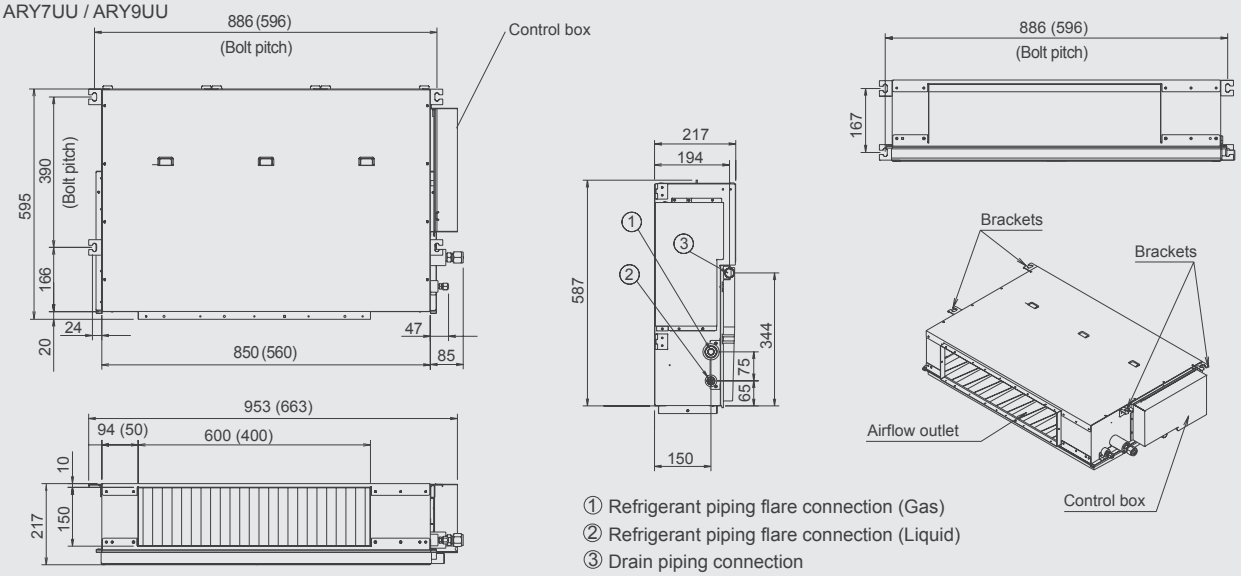
Remote Sensor Unit: UTD-RS100
IR Receiver Unit: UTY-LRHY1
Drain Pump Unit: UTZ-PX1NBA

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

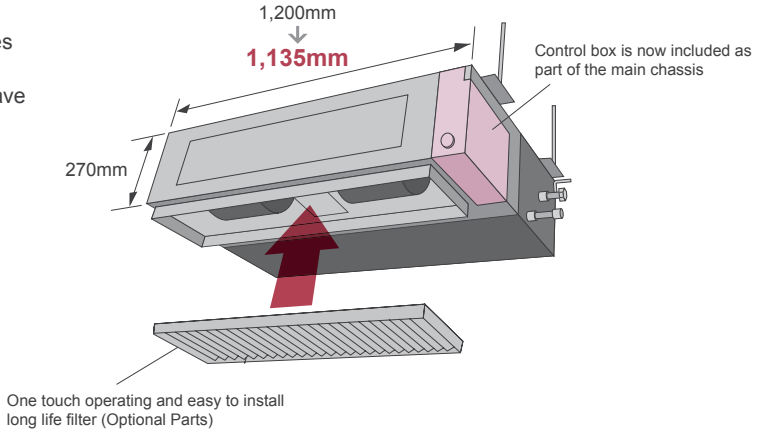


① Refrigerant piping flare connection (Gas)
② Refrigerant piping flare connection (Liquid)
③ Drain piping connection

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.



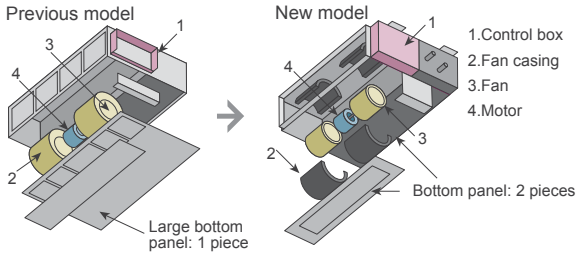
Specifications

Model No.	Indoor unit		ARYF24LB	ARYA30LB	ARYA36LB	ARYA36LC	ARYA45LC	ARYA45LC
	Outdoor unit		AOYA24LA	AOYA30LB	AOYA36LB	AOYD36LA	AOYA45LB	AOYD45LA
Power Source		V/Ø/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	dB(A)	31/29/27/25	42/37/32/29	42/37/32/29	40/36/31/26	44/38/33/29	42/38/32/28
Noise (Outdoor)	Cooling		52	53	54	51	55	54
Airflow Rate (High)	Indoor / Outdoor	m^3/h	1100/2470	2100/3600	2100/4000	1850/6200	2250/6600	2100/6900
Net Dimension H x W x D	Indoor	mm	270x1135x700	270x1135x700	270x1135x700	270x1135x700	270x1135x700	270x1,135x700
		kg(lbs)	38(84)	40(88)	40(88)	40(88)	41(90)	40(88)
	Outdoor	mm	578x790x315	830x900x330	830x900x330	1290x900x330	1290×900×330	1290×900×330
		kg(lbs)	44(97)	62(136)	62(136)	107(236)	98(216)	107(236)
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	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	36.0/38.0
Max Pipe Length(Chargeless)		m	30	50	50	75	50	75
Height Difference			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

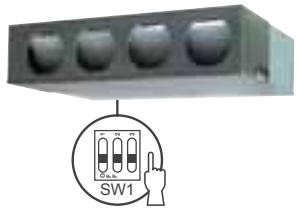


Easy installation

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

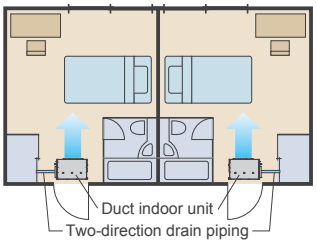
Main work settings
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

Conventional type
Setting by DIP switch inside control box



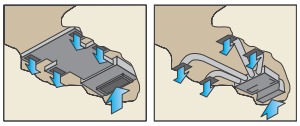
Setting by wired remote controller

Two-direction drain piping

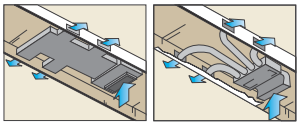


Installation styles

Embedded in Ceiling



Hanging from Ceiling



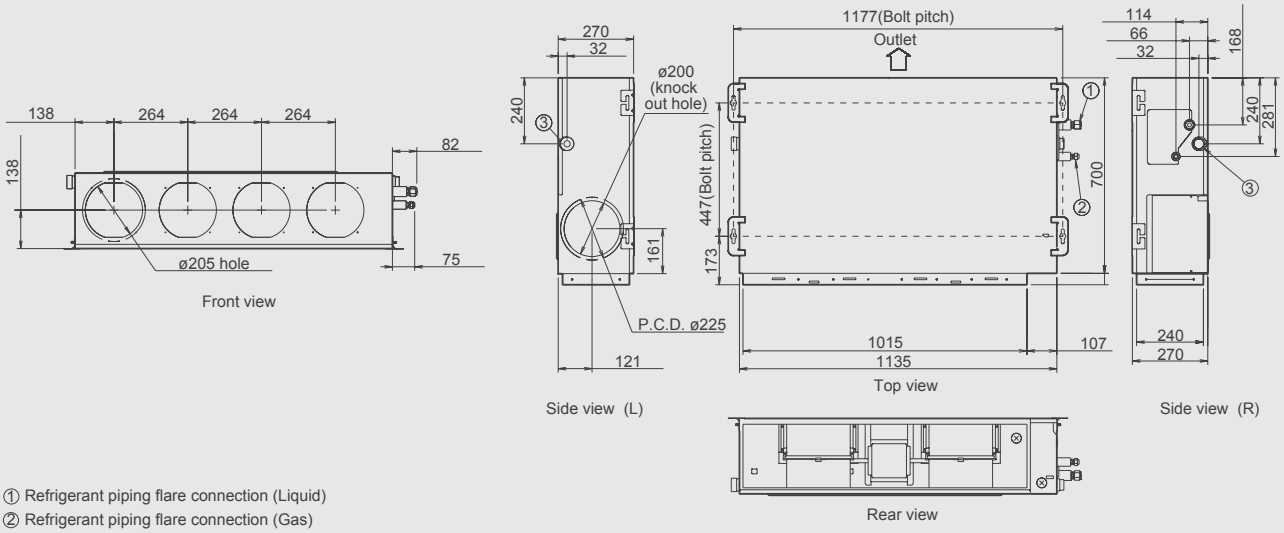
Optional parts

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

Dimensions

Models: ARYF24LB / ARYA30LB / ARYA36LB / ARYA36LC / ARYA45LC

(Unit : mm)

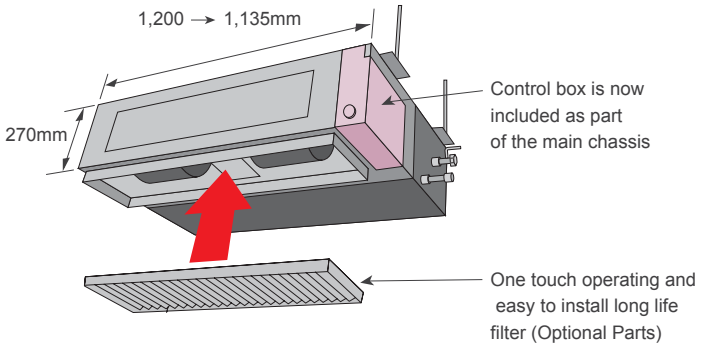


① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Duct

Slim & Compact design

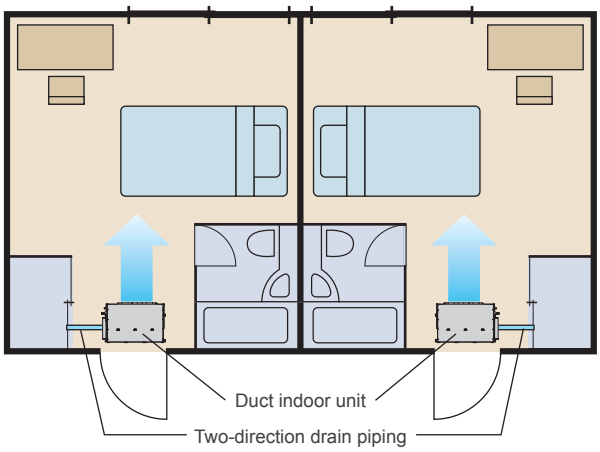
In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of up to 270mm, Further space savings have been achieved by mounting the electrical control box internally inside the chassis.



Specifications

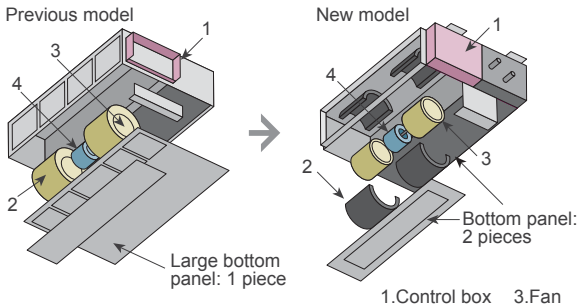
Model No.	Indoor unit		ARY25UU	ARY30UU	ARY36U(1)	ARY36UU	ARY45UU
	Outdoor unit		AOY25UU	AOY30UU	AOY36UU(1)	AOY36UU	AOY45UU
Power Source		V/Ø/Hz	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50
Capacity	Cooling	kW	7.00	8.40	10.50	10.50	12.70
	Heating		7.70	9.50	12.70	12.70	14.30
Input Power	Cooling/Heating	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	m^3/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			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

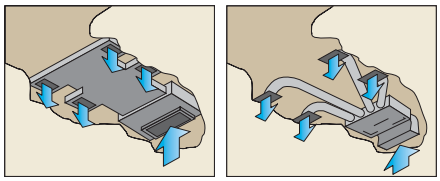
See below for the case of rear suction type



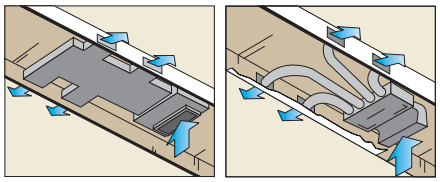
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

Installation styles

Embedded in Ceiling



Hanging from Ceiling



Optional parts

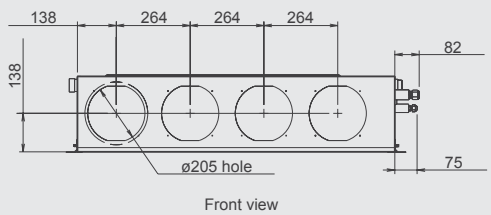
Remote Sensor Unit:	UTD-RS100
Drain Pump Unit:	UTZ-PX1NBA
External Control Set:	UTD-ECS5A

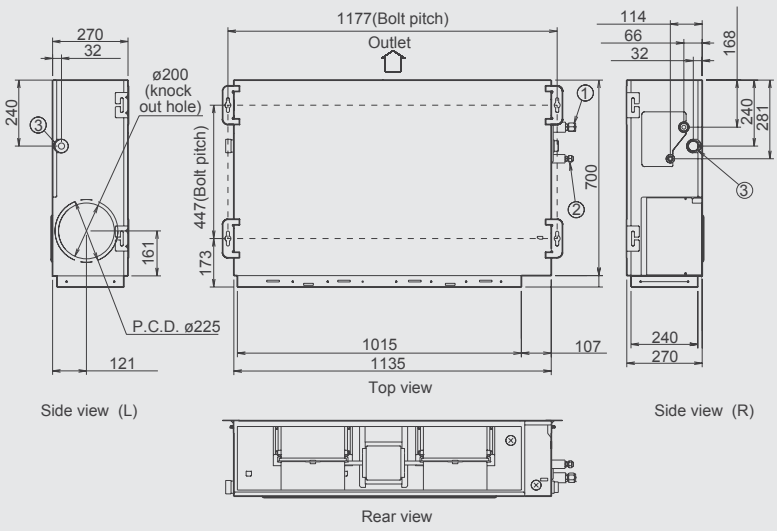
Dimensions

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

Adjust | Restart | Auto Changeover | Fresh | Saving | W+S

Optional

Wired R.C.

For ARY45LH/54LU

For ARYC45LC/54LC

ARY45LH **ARY54LU**

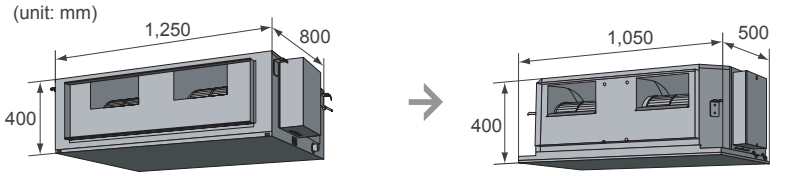
ARYC45LC NEW **ARYC54LC** NEW

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.

Volume 47.5% down

Weight 40% down



Previous model : 75kg

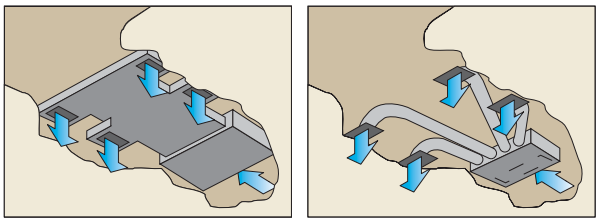
New model : 46kg (ARYC45LC/54LC)

Specifications

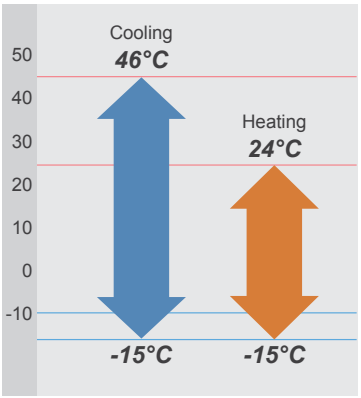
Model No.	Indoor unit		ARY45LH	ARYC45LC	ARY54LU	ARYC54LC
	Outdoor unit		AOY45LH	AOYD45LA	AOY54LU	AOYD54LA
Power Source		V/Ø/Hz	230/1/50	400/3/50	230/1/50	400/3/50
Capacity	Cooling	kW	12.50	12.50	14.00	14.00
	Heating		14.00	14.00	16.00	16.00
Input Power	Cooling/Heating	kW	4.30/3.80	4.06/3.67	5.36/4.70	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/M/L	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	m^3/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
Height Difference			30	30	30	30
Operation Range	Cooling	°CDB	-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

MAX. 250pa

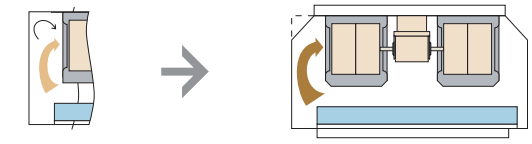


Low ambient operation (ARYC45LC/54LC)

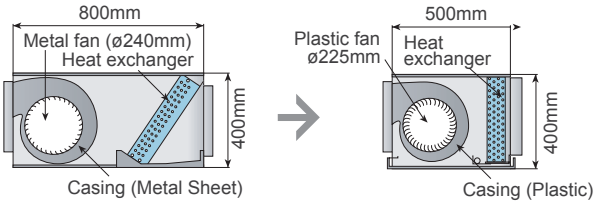


Low noise

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　　New model



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

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

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

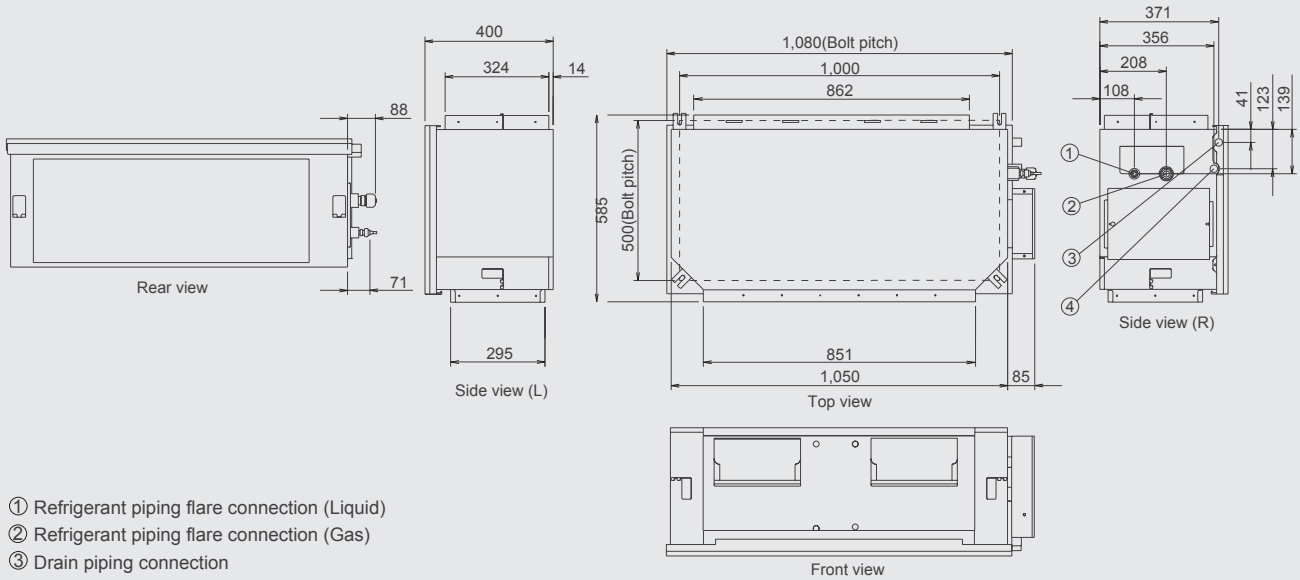
Optional parts

Long-Life Filter　　UTD-LF60KA

Dimensions

Models: ARY45LH / ARY54LU
ARYC45LC / ARYC54LC

(Unit : mm)



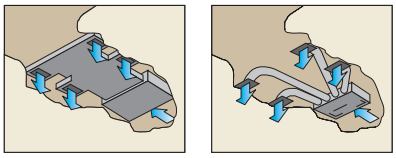
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

High Static Pressure Duct

Design also corresponding to high static pressure

Model: ARY90TL

MAX. 300pa



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	dB(A)	49/45/42	50
Noise (Outdoor)	Cooling		54	59
Airflow Rate (High)	Indoor/Outdoor	m^3/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

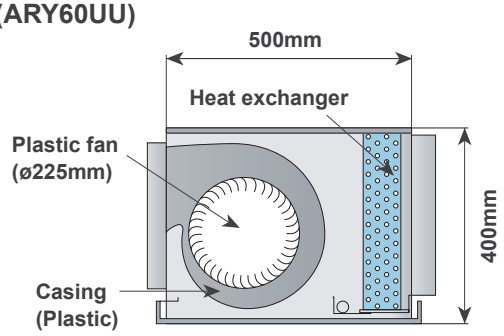
*The measurement static pressure of ARY60UU is 100Pa and ARY90TL is 196Pa.

Low noise

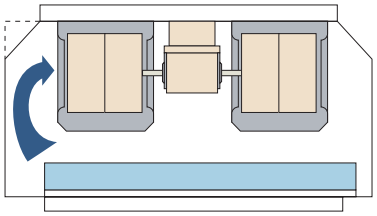
Turbulent air flow is reduced by cutting off the corners of conventional indoor unit front panel and fan case

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

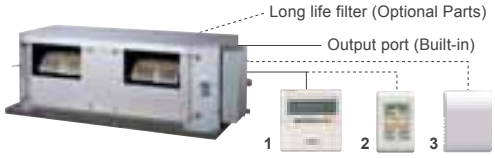
Various remote controllers and sensors can be selected

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)



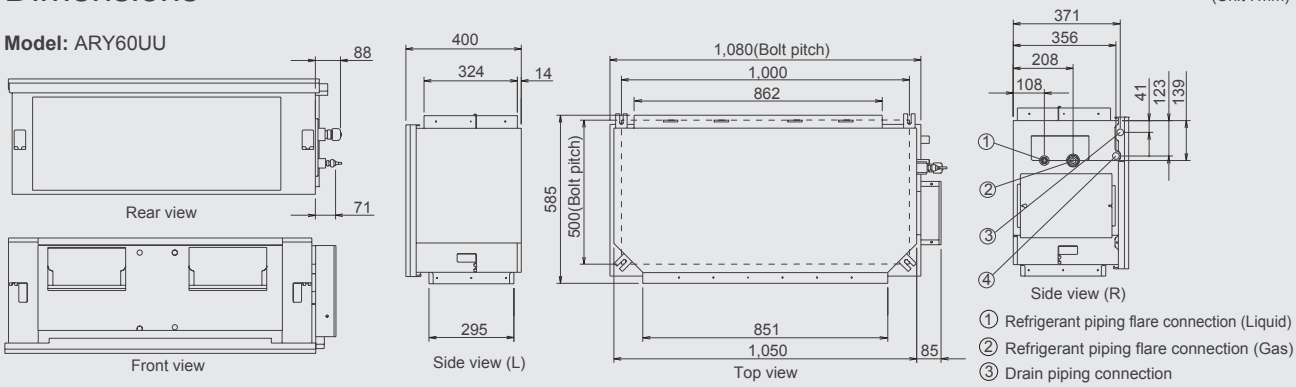
Optional parts

Long-Life Filter:	UTD-LF60KA (For ARY60UU)
Remote Sensor Unit:	UTD-RS100
External Control Set:	UTD-ECS5A (For ARY60UU)

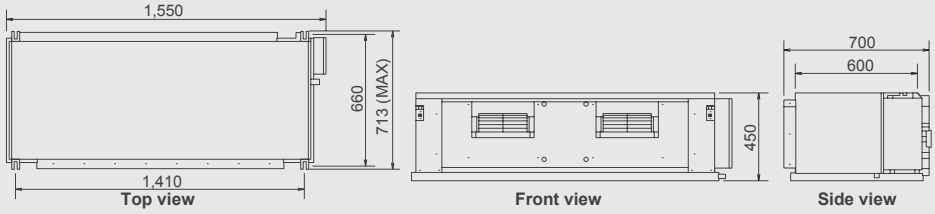
Dimensions

(Unit : mm)

Model: ARY60UU



Model: ARY90TL



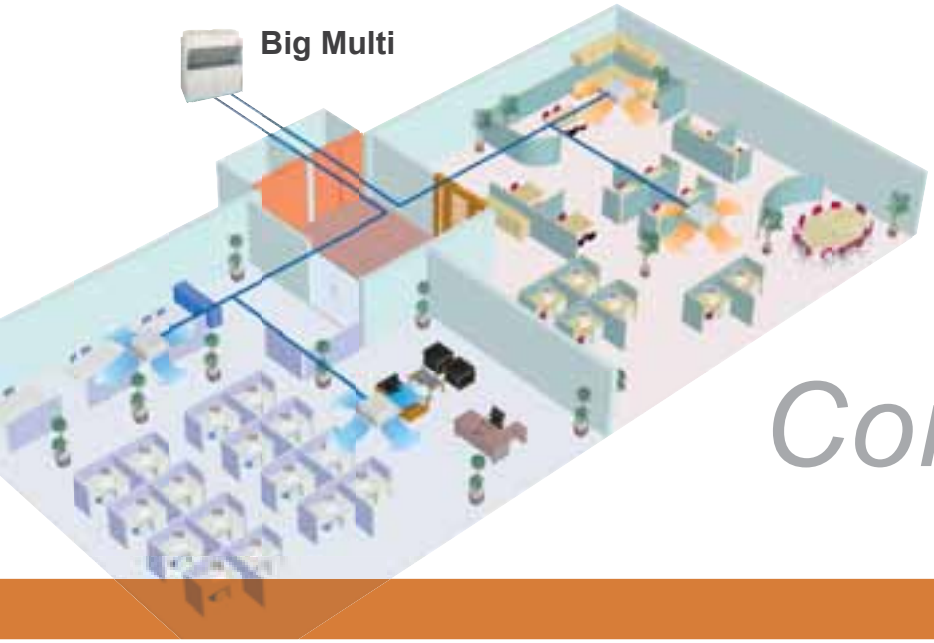
Multi Split

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.

Contents

2&3-4 Rooms



Big Multi

Multiple Rooms
Comfortably

THE POSSIBILITIES ARE INFINITE FUJITSU

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

Multi Split type Air Conditioners

FUJITSU GENERAL LIMITED

2 & 3-4 Rooms Lineup

2 ROOMS

CLASS A | ALL DC

AOYA14LAC2 NEW

2 ROOMS

CLASS A

AOY18LMAK2
AOY24LMAM2

3 ROOMS

CLASS A | ALL DC

AOYA18LAT3
AOYA24LAT3

4 ROOMS

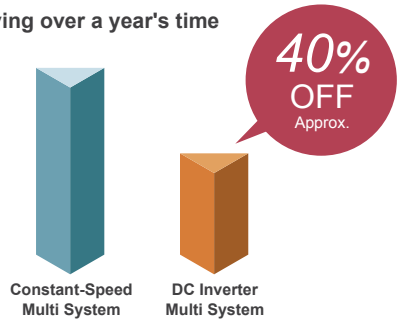
CLASS A

AOY30LMAW4

Energy saving

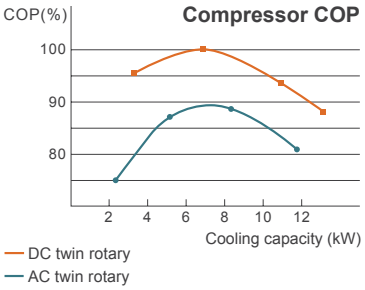
High Efficiency DC Inverter Multi system permits energy saving operation and 40% higher efficiency than a Constant-Speed Multi system. Improved Inverter cooling ratio prevents decrease in capacity under overload operation.

Energy saving over a year's time



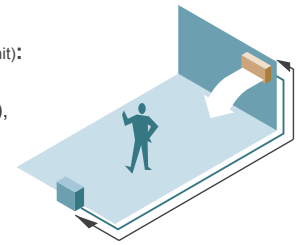
DC twin rotary compressor (18~30)

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.

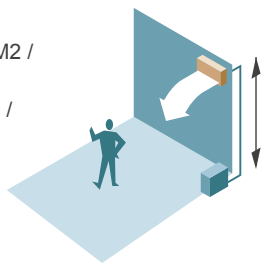


Flexible installation

Max.Piping Length (Each Unit)**:**
20m (AOYA14LAC2 / AOY18LMAK2 / 24LMAM2),
25m (AOYA18 / 24LAT3 / AOY30LMAW4)

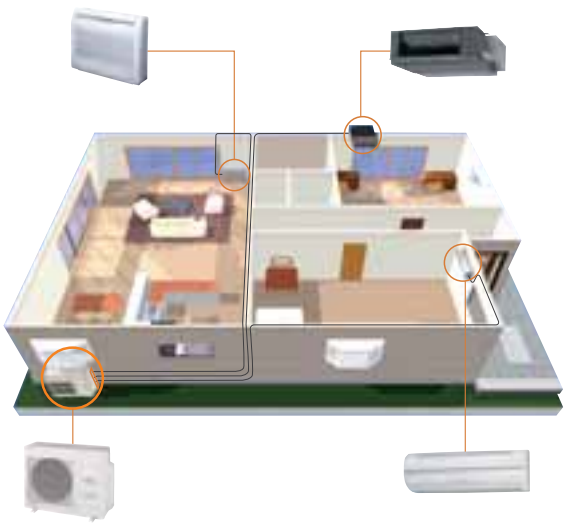


Max.Height:
10m (AOY18LMAK2 / 24LMAM2 / AOY30LMAW4),
15m (AOYA14LAC2 / AOYA18 / 24LAT3)



Total Piping Length:
30m (AOYA14LAC2 / AOY18LMAK2 / 24LMAM2),
50m (AOYA18 / 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	10°C HEAT	Distributing	Fresh	Economy	Sleep	Program	W+S	Ion	AF	Wash
ASYA07/09/12LB	●		●	●	●	●			●	●	●	○	●	●	●
ASYA07/09/12/14/18LA	●		●	●	●					●	●		●	●	●
ASY24LB		●	●	●	●					●	●		●	●	●
AGYF09/12/14LA	●		●	●	●	●			●	●	●	○	●	●	●
AUYF09/12/14/18LA(B)	●		●	●	●		●		●	●	●	○			
ABYF14/18/24LB		●	●	●	●				●	●	●	○			
ARYF09/12/14/18/22LA(B)			●	●	●			○	●	○		●			

○: Optional function

Connectable Indoor unit lineup

Indoor unit	kW	AOYA14LAC2	AOY18LMAK2	AOY24LMAM2	AOYA18LAT3	AOYA24LAT3	AOY30LMAW4
 ASYA07/09/12LB	2.1	●					
	2.5	●					
	3.5	●					
 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		●	●	●	●	●
 AUYF09/12/14/18LA(B)	2.5		●	●	●	●	●
	3.5		●	●	●	●	●
	4.2		●	●	●	●	●
	5.2			●		●	●
 ABYF14/18/24LB	4.2		●	●	●	●	●
	5.2			●		●	●
	6.8						●
 ARYF09LA	2.7		●	●	●	●	●
 ARYF12/14/18/22LA(B)	3.5		●	●	●	●	●
	4.2		●	●	●	●	●
	5.2			●		●	●
	6.3			●		●	●

2 & 3-4 Rooms

Specifications

SPECIFICATIONS (WALL MOUNTED TYPE)

Model No.	Indoor unit		ASYA07LA	ASYA09LA	ASYA12LA	ASYA14LA	ASYA18LA	ASY24LB
Power Source		V/Ø/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	320×1120×220
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
Power Source		V/Ø/Hz	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
Air Flow (High)			620	620	750
Net Dimension H x W x D		mm	260x790x198	260x790x198	260x790x198
Weight		kg(lbs)	7.5(17)	7.5(17)	7.5(17)

SPECIFICATIONS (FLOOR TYPE, FLOOR/CEILING UNIVERSAL TYPE)

Model No.	Indoor unit		AGYF09LA	AGYF12LA	AGYF14LA	ABYF14LA	ABYF18LB	ABYF24LB
Power Source		V/Ø/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/Ø/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	ARYF12LA	ARYF14LA	ARYF18LB	ARYF22LA
Power Source		V/Ø/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)

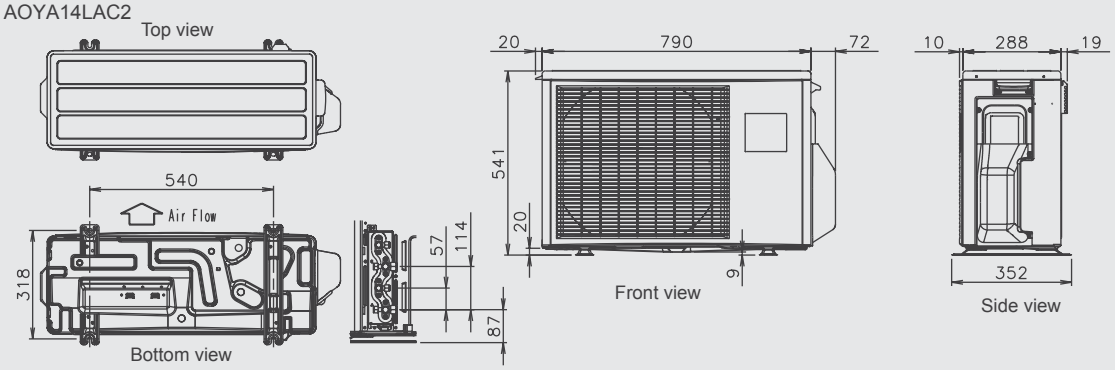
Model No.	Outdoor unit		AOYA14LAC2	AOY18LMAK2	AOY24LMAM2	AOYA18LAT3	AOYA24LAT3	AOY30LMAW4
Power Source		V/Ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Noise	Cooling H/M/L/Q	dB(A)	47	49	49	46	48	50
Net Dimension H x W x D		mm	540 x 790 x 290	650x830x320	650x830x320	700x900x330	700x900x330	830x900x330
Weight		kg(lbs)	37 (82)	56(123)	56(123)	55(121)	55(121)	68(150)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/9.52 6.35/*12.70	6.35/9.52 6.35/*12.70	6.35/9.52x2 6.35/*12.70	6.35/9.52x2 6.35/*12.70	6.35/9.52x2 6.35/*12.70x2
Max Pipe Length		mm	30 (Total)	30(Total)	30(Total)	50(Total)	50(Total)	70(Total)
Max Height Difference			15(Each)	10(Each)	10(Each)	15(Each)	15(Each)	10(Each)
Operation Range	Cooling	°CDB	10~46	0~46	0~46	-10~46	-10~46	0~46
	Heating		-15~24	-10~24	-10~24	-15~24	-15~24	-10~24
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A

* Connect to connection valve by the adapter.

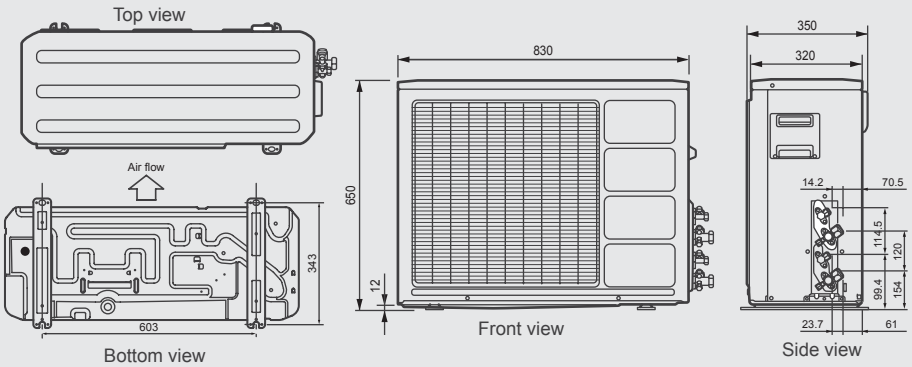
Dimensions

2 ROOMS

Model: AOYA14LAC2

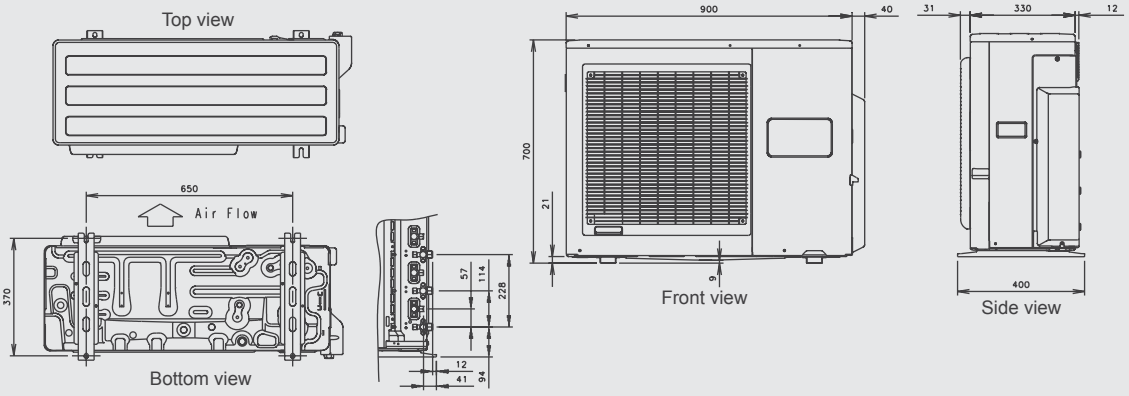


Models: AOY18LMAK2 / AOY24LMAM2



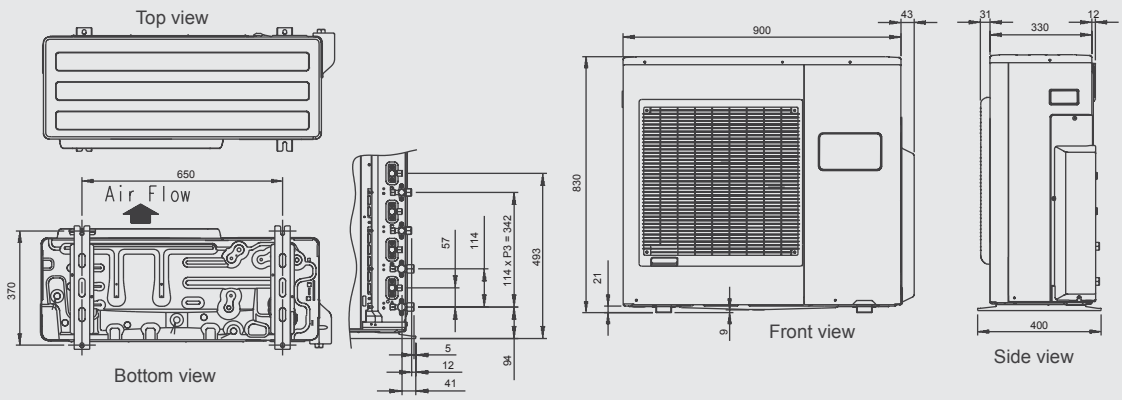
3 ROOMS

Models: AOYA18LAT3 / AOYA24LAT3



4 ROOMS

Models: AOY30LMAW4



2 & 3-4 Rooms Combination tables

AOYA14LAC2	Indoor model for each room		COOLING OPERATION					
			COOLING OPERATION			Power Input	EER	Cooling class
			Room 1	Room 2	Total			
			KW	KW	KW	KW		
1 Room	7	-	2.10	-	2.10	0.59	3.56	A
	9	-	2.50	-	2.50	0.65	3.85	A
	12	-	3.50	-	3.50	1.04	3.37	A
2 Room	7	7	2.00	2.00	4.00	1.09	3.67	A
	7	9	1.95	2.05	4.00	1.09	3.67	A
	7	12	1.65	2.35	4.00	1.05	3.81	A
	9	9	2.00	2.00	4.00	1.09	3.67	A
	9	12	1.70	2.30	4.00	1.05	3.81	A

AOY18LMAK2	Indoor model for each room		COOLING OPERATION					
			COOLING OPERATION			Power Input	EER	Cooling class
			Room 1	Room 2	Total			
			KW	KW	KW	KW		
1 Room	7	-	2.30	-	2.30(2.0-2.7)	0.71(0.65-0.90)	3.24	A
	9	-	2.70	-	2.70(2.0-3.2)	0.89(0.65-1.07)	3.03	B
	12	-	3.50	-	3.50(2.0-4.0)	1.09(0.65-1.33)	3.21	A
	14	-	4.20	-	4.20(2.0-4.8)	1.30(0.65-1.60)	3.23	A
2 Room	7	7	2.30	2.30	4.60(2.0-5.4)	1.39(0.68-1.68)	3.31	A
	7	9	2.35	2.75	5.10(2.0-5.9)	1.56(0.68-1.84)	3.27	A
	7	12	2.18	3.32	5.50(2.0-6.3)	1.65(0.68-2.03)	3.33	A
	7	14	1.95	3.55	5.50(2.0-6.5)	1.65(0.68-2.40)	3.33	A
	9	9	2.70	2.70	5.40(2.0-6.3)	1.65(0.68-2.06)	3.27	A
	9	12	2.40	3.10	5.50(2.0-6.5)	1.65(0.68-2.40)	3.33	A
	9	14	2.15	3.35	5.50(2.0-6.5)	1.65(0.68-2.40)	3.33	A
	12	12	2.75	2.75	5.50(2.0-6.5)	1.65(0.68-2.40)	3.33	A

AOY24LMAM2	Indoor model for each room		COOLING OPERATION					
			COOLING OPERATION			Power Input	EER	Cooling class
			Room 1	Room 2	Total			
			KW	KW	KW	KW		
1 Room	7	-	2.30	-	2.30(2.0-2.7)	0.71(0.65-0.90)	3.24	A
	9	-	2.70	-	2.70(2.0-3.2)	0.89(0.65-1.07)	3.03	B
	12	-	3.50	-	3.50(2.0-4.0)	1.09(0.65-1.33)	3.21	A
	14	-	4.20	-	4.20(2.0-4.8)	1.30(0.65-1.60)	3.23	A
	18	-	5.00	-	5.00(2.0-5.6)	1.64(0.68-1.95)	3.05	B
2 Room	7	7	2.30	2.30	4.60(2.0-5.4)	1.39(0.68-1.68)	3.31	A
	7	9	2.35	2.75	5.10(2.0-5.9)	1.56(0.68-1.84)	3.27	A
	7	12	2.18	3.32	5.50(2.0-6.3)	1.71(0.68-2.03)	3.22	A
	7	14	2.02	3.68	5.70(2.0-7.3)	1.72(0.68-2.62)	3.31	A
	7	18	1.80	3.90	5.70(2.0-7.6)	1.72(0.68-2.87)	3.31	A
	9	9	2.70	2.70	5.40(2.0-6.3)	1.68(0.68-2.06)	3.21	A
	9	12	2.44	3.16	5.60(2.0-7.0)	1.71(0.68-2.58)	3.27	A
	9	14	2.23	3.47	5.70(2.0-7.6)	1.72(0.68-2.87)	3.31	A
	9	18	2.00	3.70	5.70(2.5-7.7)	1.72(0.80-2.87)	3.31	A
	12	12	2.80	2.80	5.60(2.0-7.3)	1.72(0.68-2.87)	3.26	A
	12	14	2.59	3.11	5.70(2.0-7.6)	1.73(0.68-2.87)	3.29	A
	12	18	2.39	3.41	5.80(2.5-7.8)	1.73(0.80-2.87)	3.35	A
	14	14	2.90	2.90	5.80(2.5-7.8)	1.73(0.80-2.87)	3.35	A

AOYA18LAT3	Indoor model for each room			COOLING OPERATION					
				COOLING OPERATION			Power Input	EER	Cooling class
				Room 1	Room 2	Total			
				KW	KW	KW	KW		
1 Room	7	-	-	2.30	-	-	2.30(1.5-2.7)	0.65(0.45-0.75)	3.54	A
	9	-	-	2.70	-	-	2.70(1.5-3.3)	0.80(0.45-1.09)	3.38	A
	12	-	-	3.50	-	-	3.50(1.5-3.7)	1.09(0.45-1.15)	3.21	A
	14	-	-	4.20	-	-	4.20(1.5-4.8)	1.16(0.45-1.41)	3.62	A
2 Room	7	7	-	2.30	2.30	-	4.60(1.8-5.0)	1.22(0.50-1.43)	3.77	A
	9	7	-	2.70	2.30	-	5.00(1.8-5.7)	1.35(0.50-1.81)	3.70	A
	12	7	-	3.02	1.98	-	5.00(1.8-6.1)	1.34(0.50-2.06)	3.73	A
	14	7	-	3.42	1.88	-	5.30(1.8-6.6)	1.34(0.50-2.06)	3.96	A
	9	9	-	2.50	2.50	-	5.00(1.8-6.2)	1.35(0.50-2.06)	3.70	A
	12	9	-	2.82	2.18	-	5.00(1.8-6.3)	1.35(0.50-2.06)	3.70	A
	14	9	-	3.23	2.07	-	5.30(1.8-6.7)	1.35(0.50-2.06)	3.93	A
	12	12	-	2.55	2.55	-	5.10(1.8-6.3)	1.35(0.50-2.06)	3.78	A
	14	12	-	2.89	2.41	-	5.30(1.8-6.7)	1.35(0.50-2.06)	3.93	A
3 Room	7	7	7	1.80	1.80	1.80	5.40(1.8-6.8)	1.34(0.50-2.06)	4.03	A
	9	7	7	2.00	1.70	1.70	5.40(1.8-6.8)	1.35(0.50-2.06)	4.00	A
	12	7	7	2.33	1.53	1.53	5.40(1.8-6.8)	1.35(0.50-2.06)	4.00	A
	14	7	7	2.58	1.41	1.41	5.40(2.0-6.8)	1.35(0.60-2.06)	4.00	A
	9	9	7	1.89	1.89	1.61	5.40(1.8-6.8)	1.35(0.50-2.06)	4.00	A
	12	9	7	2.22	1.72	1.46	5.40(1.8-6.8)	1.35(0.50-2.06)	4.00	A
	14	9	7	2.47	1.58	1.35	5.40(2.0-6.8)	1.35(0.60-2.06)	4.00	A
	9	9	9	1.80	1.80	1.80	5.40(1.8-6.8)	1.35(0.50-2.06)	4.00	A
	12	9	9	2.12	1.64	1.64	5.40(1.8-6.8)	1.35(0.50-2.06)	4.00	A

AOYA24LAT3	Indoor model for each room			COOLING OPERATION					
				COOLING OPERATION			Power Input	EER	Cooling class
				Room 1	Room 2	Total			
				KW	KW	KW	KW		
1 Room	7	-	-	2.30	-	-	2.30(1.5-2.7)	0.65(0.45-0.75)	3.54	A
	9	-	-	2.70	-	-	2.70(1.5-3.3)	0.80(0.45-1.09)	3.38	A
	12	-	-	3.50	-	-	3.50(1.5-3.7)	1.09(0.45-1.15)	3.21	A
	14	-	-	4.20	-	-	4.20(1.5-4.8)	1.16(0.45-1.41)	3.62	A
	18	-	-	5.00	-	-	5.00(1.8-5.6)	1.50(0.50-1.96)	3.33	A
2 Room	7	7	-	2.30	2.30	-	4.60(1.8-5.0)	1.20(0.50-1.40)	3.83	A
	9	7	-	2.70	2.30	-	5.00(1.8-5.7)	1.36(0.50-1.78)	3.68	A
	12	7	-	3.42	2.38	-	5.80(1.8-6.1)	1.70(0.50-1.97)	3.41	A
	14	7	-	4.13	2.37	-	6.50(1.8-7.2)	1.91(0.50-2.46)	3.40	A
	18	7	-	4.52	2.08	-	6.60(1.8-7.8)	1.91(0.50-2.87)	3.46	A
	9	9	-	2.75	2.75	-	5.50(1.8-6.2)	1.55(0.50-2.02)	3.55	A
	12	9	-	3.41	2.79	-	6.20(1.8-6.8)	1.90(0.50-2.45)	3.26	A
	14	9	-	3.94	2.66	-	6.60(1.8-7.7)	1.91(0.50-2.77)	3.46	A
	18	9	-	4.35	2.35	-	6.70(1.8-7.9)	1.91(0.50-2.87)	3.51	A
	12	12	-	3.15	3.15	-	6.30(1.8-7.2)	1.90(0.50-2.74)	3.32	A
	14	12	-	3.67	3.03	-	6.70(1.8-7.8)	1.91(0.50-2.87)	3.51	A
	18	12	-	4.04	2.66	-	6.70(1.8-7.9)	1.92(0.50-2.87)	3.49	A
3 Room	7	7	7	2.27	2.27	2.27	6.80(1.8-7.4)	1.92(0.50-2.37)	3.54	A
	9	7	7	2.52	2.14	2.14	6.80(1.8-7.8)	1.93(0.50-2.60)	3.52	A
	12	7	7	2.84	1.98	1.98	6.80(1.8-8.1)	1.93(0.50-2.87)	3.52	A
	14	7	7	3.16	1.82	1.82	6.80(2.0-8.4)	1.94(0.60-2.87)	3.51	A
	18	7	7	3.54	1.63	1.63	6.80(2.0-8.5)	1.94(0.60-2.87)	3.51	A
	9	9	7	2.38	2.38	2.03	6.80(1.8-8.2)	1.93(0.50-2.87)	3.52	A
	12	9	7	2.70	2.21	1.88	6.80(1.8-8.2)	1.93(0.50-2.87)	3.52	A
	14	9	7	3.02	2.04	1.74	6.80(2.0-8.4)	1.94(0.60-2.87)	3.51	A
	18	9	7	3.40	1.84	1.56	6.80(2.0-8.5)	1.94(0.60-2.87)	3.51	A
	12	12	7	2.52	2.52	1.76	6.80(1.8-8.2)	1.94(0.50-2.87)	3.51	A
	14	12	7	2.83	2.34	1.63	6.80(2.0-8.5)	1.94(0.60-2.87)	3.51	A
	9	9	9	2.27	2.27	2.27	6.80(1.8-8.2)	1.94(0.50-2.87)	3.51	A
	12	9	9	2.58	2.11	2.11	6.80(1.8-8.3)	1.94(0.50-2.87)	3.51	A
	14	9	9	2.89	1.95	1.95	6.80(2.0-8.5)	1.94(0.60-2.87)	3.51	A
	18	9	9	3.27	1.77	1.77	6.80(2.0-8.5)	1.94(0.60-2.87)	3.51	A
	12	12	9	2.41	2.41	1.97	6.80(1.8-8.3)	1.94(0.50-2.87)	3.51	A
	14	12	9	2.72	2.24	1.84	6.80(2.0-8.5)	1.94(0.60-2.87)	3.51	A
	12	12	12	2.27	2.27	2.27	6.80(1.8-8.3)	1.94(0.50-2.87)	3.51	A

Note: •Indoor unit combinations shown here are the patterns of units operating, not patterns of units connectable.
•Cooling capacity is based on 27ºCDB/19ºCWB (indoor temperature), 35ºCDB (outdoor temperature).
•Heating capacity is based on 20ºCDB (indoor temperature), 7ºCDB/6ºCWB (outdoor temperature).

AOYA14LAC2	Indoor model for each room		HEATING OPERATION					
			HEATING OPERATION			Power Input	COP	Heating class
			Room 1	Room 2	Total			
			KW	KW	KW	KW		
1 Room	7	-	2.70	-	2.70	0.64	4.22	A
	9	-	3.30	-	3.30	0.87	3.79	A
	12	-	4.00	-	4.00	1.13	3.54	A
2 Room	7	7	2.20	2.20	4.40	1.03	4.27	A
	7	9	2.15	2.25	4.40	1.03	4.27	A
	7	12	1.95	2.45	4.40	1.02	4.31	A
	9	9	2.20	2.20	4.40	1.03	4.27	A
	9	12	2.00	2.40	4.40	1.02	4.31	A

AOY18LMAK2	Indoor model for each room		HEATING OPERATION					
			HEATING OPERATION			Power Input	COP	Heating class
			Room 1	Room 2	Total			
			KW	KW	KW	KW		
1 Room	7	-	2.70	-	2.70(2.2-3.3)	0.82(0.65-1.01)	3.29	C
	9	-	3.30	-	3.30(2.2-4.2)	0.99(0.65-1.26)	3.33	C
	12	-	4.00	-	4.00(2.2-4.8)	1.20(0.65-1.47)	3.33	C
	14	-	4.80	-	4.80(2.2-6.0)	1.43(0.65-1.87)	3.36	C
2 Room	7	7	2.60	2.60	5.20(2.2-6.4)	1.34(0.68-1.75)	3.88	A
	7	9	2.85	3.35	6.20(2.2-7.3)	1.65(0.68-2.22)	3.76	A
	7	12	2.59	3.71	6.30(2.2-7.7)	1.65(0.68-2.40)	3.82	A
	7	14	2.36	4.04	6.40(2.5-7.8)	1.66(0.75-2.40)	3.86	A
	9	9	3.15	3.15	6.30(2.2-7.7)	1.65(0.68-2.22)	3.82	A
	9	12	2.85	3.45	6.30(2.2-7.8)	1.65(0.75-2.40)	3.82	A
	9	14	2.61	3.79	6.40(2.5-7.8)	1.65(0.75-2.40)	3.88	A
	12	12	3.15	3.15	6.30(2.2-7.8)	1.65(0.75-2.40)	3.82	A

AOY24LMAM2	Indoor model for each room		HEATING OPERATION					
			HEATING OPERATION			Power Input	COP	Heating class
			Room 1	Room 2	Total			
			KW	KW	KW	KW		
1 Room	7	-	2.70	-	2.70(2.2-3.3)	0.82(0.65-1.01)	3.29	C
	9	-	3.30	-	3.30(2.2-4.0)	0.99(0.65-1.26)	3.33	C
	12	-	4.00	-	4.00(2.2-4.8)	1.20(0.65-1.47)	3.33	C
	14	-	4.80	-	4.80(2.2-6.0)	1.43(0.65-1.87)	3.36	C
	18	-	6.00	-	6.00(2.2-7.1)	1.87(0.68-2.64)	3.21	C
2 Room	7	7	2.60	2.60	5.20(2.2-6.4)	1.34(0.68-1.75)	3.88	A
	7	9	2.85	3.35	6.20(2.2-7.4)	1.70(0.68-2.22)	3.65	A
	7	12	2.59	3.71	6.30(2.2-7.9)	1.69(0.68-2.41)	3.73	A
	7	14	2.36	4.04	6.40(2.5-8.5)	1.67(0.75-2.68)	3.83	A
	7	18	2.13	4.27	6.40(2.5-8.9)	1.65(0.75-2.87)	3.88	A
	9	9	3.20	3.20	6.40(2.2-8.0)	1.70(0.68-2.47)	3.76	A
	9	12	2.85	3.45	6.30(2.2-8.4)	1.68(0.75-2.70)	3.75	A
	9	14	2.61	3.79	6.40(2.5-8.9)	1.66(0.75-2.87)	3.86	A
	9	18	2.37	4.03	6.40(2.7-8.9)	1.64(0.80-2.87)	3.90	A
	12	12	3.20	3.20	6.40(2.2-8.9)	1.67(0.75-2.87)	3.83	A
	12	14	2.91	3.49	6.40(2.5-9.0)	1.65(0.80-2.87)	3.88	A
	12	18	2.67	3.73	6.40(2.7-9.0)	1.64(0.80-2.87)	3.90	A
	14	14	3.20	3.20	6.40(2.7-8.8)	1.64(0.80-2.87)	3.90	A

AOYA18LAT3	Indoor model for each room			HEATING OPERATION					
				HEATING OPERATION			Power Input	COP	Heating class
				Room 1	Room 2	Total			
				KW	KW	KW	KW		
1 Room	7	-	-	2.70	-	-	2.70(1.5-3.3)	0.83(0.43-1.00)	3.25	C
	9	-	-	3.30	-	-	3.30(1.5-4.2)	1.00(0.42-1.30)	3.30	C
	12	-	-	3.80	-	-	3.80(1.5-4.8)	1.26(0.42-1.62)	3.02	D
	14	-	-	4.80	-	-	4.80(1.5-5.8)	1.30(0.42-1.70)	3.69	A
2 Room	7	7	-	2.70	2.70	-	5.40(2.0-6.1)	1.59(0.52-1.93)	3.40	C
	9	7	-	3.25	2.75	-	6.00(2.0-6.4)	1.87(0.52-2.06)	3.21	C
	12	7	-	3.71	2.59	-	6.30(2.0-6.5)	1.98(0.52-2.06)	3.18	D
	14	7	-	4.29	2.51	-	6.80(2.0-7.1)	1.92(0.50-2.06)	3.54	B
	9	9	-	3.15	3.15	-	6.30(2.0-6.5)	1.98(0.52-2.06)	3.18	D
	12	9	-	3.51	2.89	-	6.40(2.0-6.6)	1.99(0.52-2.06)	3.22	C
	14	9	-	4.03	2.77	-	6.80(2.0-7.2)	1.91(0.50-2.06)	3.56	B
	12	12	-	3.20	3.20	-	6.40(2.0-6.6)	1.98(0.52-2.06)	3.23	C
	14	12	-	3.71	3.09	-	6.80(2.0-7.3)	1.90(0.50-2.06)	3.58	B
3 Room	7	7	7	2.23	2.23	2.23	6.70(2.0-7.7)	1.70(0.50-2.06)	3.94	A
	9	7	7	2.52	2.14	2.14	6.80(2.0-7.8)	1.70(0.50-2.06)	4.00	A
	12	7	7	2.83	1.98	1.98	6.80(2.0-7.8)	1.69(0.50-2.06)	4.02	A
	14	7	7	3.14	1.83	1.83	6.80(2.0-8.0)	1.62(0.50-2.06)	4.20	A
	9	9	7	2.39	2.39	2.03	6.80(2.0-7.8)	1.69(0.50-2.06)	4.02	A
	12	9	7	2.69	2.22	1.89	6.80(2.0-7.9)	1.68(0.50-2.06)	4.05	A
	14	9	7	2.99	2.06	1.75	6.80(2.0-8.0)	1.62(0.50-2.06)	4.20	A
	9	9	9	2.27	2.27	2.27	6.80(2.0-7.9)	1.68(0.50-2.06)	4.05	A
	12	9	9	2.57	2.12	2.12	6.80(2.0-7.9)	1.67(0.50-2.06)	4.07	A

AOYA24LAT3	Indoor model for each room			HEATING OPERATION					
				HEATING OPERATION			Power Input	COP	Heating class
				Room 1	Room 2	Total			
				KW	KW	KW	KW		
1 Room	7	-	-	2.70	-	-	2.70(1.5-3.3)	0.83(0.43-1.00)	3.25	C
	9	-	-	3.30	-	-	3.30(1.5-4.2)	1.00(0.42-1.30)	3.30	C
	12	-	-	3.80	-	-	3.80(1.5-4.8)	1.26(0.42-1.62)	3.02	D
	14	-	-	4.80	-	-	4.80(1.5-5.8)	1.30(0.42-1.70)	3.69	A
	18	-	-	6.00	-	-	6.00(1.6-7.1)	1.85(0.42-2.40)	3.24	C
2 Room	7	7	-	2.75	2.75	-	5.50(2.0-6.1)	1.55(0.52-1.93)	3.55	B
	9	7	-	3.30	2.80	-	6.10(2.0-7.0)	1.82(0.52-2.52)	3.35	C
	12	7	-	4.12	2.88	-	7.00(2.0-7.3)	2.31(0.52-2.66)	3.03	D
	14	7	-	4.80	2.80	-	7.60(2.0-8.3)	2.28(0.50-2.87)	3.33	C
	18	7	-	5.39	2.51	-	7.90(2.0-8.3)	2.34(0.50-2.87)	3.38	C
	9	9	-	3.30	3.30	-	6.60(2.0-7.4)	2.04(0.52-2.68)	3.24	C
	12	9	-	4.00	3.30	-	7.30(2.0-7.7)	2.43(0.52-2.87)	3.00	D
	14	9	-	4.68	3.22	-	7.90(2.0-8.3)	2.38(0.50-2.87)	3.32	C
	18	9	-	5.16	2.84	-	8.00(2.0-8.5)	2.32(0.50-2.87)	3.45	B
	12	12	-	3.80	3.80	-	7.60(2.0-7.8)	2.54(0.52-2.87)	2.99	D
	14	12	-	4.31	3.59	-	7.90(2.0-8.4)	2.37(0.50-2.87)	3.33	C
	18	12	-	4.80	3.20	-	8.00(2.0-8.6)	2.31(0.50-2.87)	3.46	B
3 Room	7	7	7	2.47	2.47	2.47	7.40(2.0-8.6)	2.05(0.50-2.68)	3.61	A
	9	7	7	2.86	2.42	2.42	7.70(2.0-8.8)	2.11(0.50-2.87)	3.65	A
	12	7	7	3.25	2.28	2.28	7.80(2.0-8.9)	2.10(0.50-2.80)	3.71	A
	14	7	7	3.65	2.13	2.13	7.90(2.0-9.2)	2.02(0.50-2.72)	3.91	A
	18	7	7	4.09	1.91	1.91	7.90(2.0-9.2)	2.00(0.50-2.70)	3.95	A
	9	9	7	2.74	2.74	2.32	7.80(2.0-9.0)	2.10(0.50-2.87)	3.71	A
	12	9	7	3.09	2.55	2.16	7.80(2.0-9.1)	2.09(0.50-2.87)	3.73	A
	14	9	7	3.52	2.42	2.06	8.00(2.0-9.2)	2.02(0.50-2.72)	3.96	A
	18	9	7	3.97	2.18	1.85	8.00(2.0-9.2)	2.00(0.50-2.69)	4.00	A
	12	12	7	2.93	2.93	2.05	7.90(2.0-9.1)	2.08(0.50-2.87)	3.80	A
	14	12	7	3.31	2.76	1.93	8.00(2.0-9.2)	2.01(0.50-2.70)	3.98	A
	9	9	9	2.63	2.63	2.63	7.90(2.0-9.1)	2.09(0.50-2.87)	3.78	A
	12	9	9	2.98	2.46	2.46	7.90(2.0-9.2)	2.08(0.50-2.87)	3.80	A
	14	9	9	3.37	2.32	2.32	8.00(2.0-9.2)	2.00(0.50-2.70)	4.00	A
	18	9	9	3.81	2.10	2.10	8.00(2.0-9.2)	1.98(0.50-2.68)	4.04	A
	12	12	9	2.83	2.83	2.34	8.00(2.0-9.2)	2.07(0.50-2.80)	3.86	A
	14	12	9	3.17	2.64	2.18	8.00(2.0-9.2)	2.00(0.50-2.69)	4.00	A
	12	12	12	2.67	2.67	2.67	8.00(2.0-9.2)	2.06(0.50-2.78)	3.88	A

INVERTER

2 & 3-4 Rooms Combination tables

AOY30LMAW4	Indoor model for each room				COOLING OPERATION							
					COOLING OPERATION					Power Input	EER	Cooling class
					Room 1	Room 2	Room 3	Room 4	Total			
					KW	KW	KW	KW	KW	KW		
1 Room	7	-	-	-	2.30	-	-	-	2.30(1.6-2.7)	0.78(0.56-0.99)	2.95	C
	9	-	-	-	2.70	-	-	-	2.70(1.6-3.4)	0.94(0.56-1.25)	2.87	C
	12	-	-	-	3.50	-	-	-	3.50(1.6-3.8)	1.24(0.56-1.40)	2.82	C
	14	-	-	-	4.00	-	-	-	4.00(1.7-4.5)	1.40(0.57-1.68)	2.86	C
	18	-	-	-	5.20	-	-	-	5.20(1.7-6.0)	1.68(0.56-2.20)	3.10	B
	22	-	-	-	6.30	-	-	-	6.30(1.8-6.8)	2.30(0.58-2.70)	2.74	D
	24	-	-	-	6.80	-	-	-	6.80(1.8-7.4)	2.40(0.56-2.86)	2.83	C
2 Room	7	7	-	-	2.30	2.30	-	-	4.60(1.8-5.2)	1.42(0.60-1.62)	3.24	A
	9	7	-	-	2.70	2.30	-	-	5.00(1.8-6.0)	1.60(0.60-2.16)	3.13	B
	12	7	-	-	3.50	2.30	-	-	5.80(1.8-6.2)	2.00(0.60-2.20)	2.90	C
	14	7	-	-	4.00	2.30	-	-	6.30(1.8-7.1)	2.15(0.60-2.50)	2.93	C
	18	7	-	-	4.80	2.10	-	-	6.90(2.8-8.2)	2.10(0.90-2.85)	3.29	A
	22	7	-	-	5.20	1.90	-	-	7.10(2.8-8.9)	2.16(0.90-3.30)	3.29	A
	24	7	-	-	5.40	1.80	-	-	7.20(2.8-9.3)	2.16(0.90-3.58)	3.33	A
	9	9	-	-	2.70	2.70	-	-	5.40(1.8-6.4)	1.68(0.60-2.23)	3.21	A
	12	9	-	-	3.50	2.70	-	-	6.20(2.8-6.8)	2.16(0.90-2.50)	2.87	C
	14	9	-	-	4.00	2.70	-	-	6.70(2.8-7.8)	2.35(0.90-2.90)	2.85	C
	18	9	-	-	4.60	2.40	-	-	7.00(2.8-8.7)	2.15(0.90-3.25)	3.26	A
	22	9	-	-	5.00	2.10	-	-	7.10(2.8-9.0)	2.15(0.90-3.52)	3.30	A
	24	9	-	-	5.23	2.07	-	-	7.30(2.8-9.5)	2.15(0.90-3.52)	3.40	A
	12	12	-	-	3.35	3.35	-	-	6.70(2.8-7.3)	2.36(0.90-2.80)	2.84	C
	14	12	-	-	3.68	3.22	-	-	6.90(2.8-8.5)	2.18(0.90-3.30)	3.17	B
	18	12	-	-	4.18	2.82	-	-	7.00(2.8-9.1)	2.15(0.90-3.52)	3.26	A
	22	12	-	-	4.63	2.57	-	-	7.20(2.8-9.4)	2.20(0.90-3.52)	3.27	A
	24	12	-	-	4.82	2.48	-	-	7.30(2.8-9.5)	2.15(0.90-3.52)	3.40	A
	14	14	-	-	3.55	3.55	-	-	7.10(2.8-9.0)	2.20(0.90-3.40)	3.23	A
	18	14	-	-	4.07	3.13	-	-	7.20(2.8-9.3)	2.20(0.90-3.52)	3.27	A
	22	14	-	-	4.47	2.83	-	-	7.30(2.8-9.6)	2.20(0.90-3.52)	3.32	A
	24	14	-	-	4.66	2.74	-	-	7.40(3.4-9.7)	2.20(1.10-3.52)	3.36	A
3 Room	7	7	7	-	2.30	2.30	2.30	-	6.90(1.8-7.5)	2.20(0.60-2.44)	3.14	B
	9	7	7	-	2.70	2.30	2.30	-	7.30(2.8-7.7)	2.35(0.90-2.55)	3.11	B
	12	7	7	-	3.02	1.99	1.99	-	7.00(2.8-8.2)	2.17(0.90-2.90)	3.23	A
	14	7	7	-	3.27	1.96	1.96	-	7.20(1.6-8.9)	2.22(0.68-3.43)	3.24	A
	18	7	7	-	4.08	1.81	1.81	-	7.70(2.8-10.0)	2.22(0.98-3.55)	3.47	A
	22	7	7	-	4.49	1.66	1.66	-	7.80(2.8-10.1)	2.17(0.98-3.58)	3.59	A
	24	7	7	-	4.57	1.61	1.61	-	7.80(2.8-10.1)	2.19(0.98-3.53)	3.56	A
	9	9	7	-	2.45	2.45	2.09	-	7.00(2.8-8.3)	2.17(0.90-2.90)	3.23	A
	12	9	7	-	2.78	2.34	2.08	-	7.20(1.6-8.9)	2.22(0.68-3.41)	3.24	A
	14	9	7	-	3.16	2.14	1.90	-	7.20(2.8-9.1)	2.22(0.98-3.56)	3.24	A
	18	9	7	-	3.96	1.98	1.76	-	7.70(2.8-9.9)	2.22(0.98-3.56)	3.47	A
	22	9	7	-	4.37	1.82	1.61	-	7.80(2.8-10.1)	2.22(0.98-3.58)	3.51	A
	24	9	7	-	4.46	1.77	1.57	-	7.80(2.8-10.1)	2.19(0.98-3.53)	3.56	A
	12	12	7	-	2.62	2.62	1.96	-	7.20(1.6-9.1)	2.22(0.68-3.54)	3.24	A
	14	12	7	-	3.04	2.43	1.83	-	7.30(2.8-9.2)	2.22(0.98-3.56)	3.29	A
	18	12	7	-	3.78	2.24	1.68	-	7.70(2.8-9.9)	2.22(0.98-3.56)	3.47	A
	22	12	7	-	4.19	2.06	1.55	-	7.80(2.8-10.1)	2.22(0.98-3.58)	3.51	A
	24	12	7	-	4.28	2.01	1.51	-	7.80(2.8-10.1)	2.19(0.98-3.56)	3.56	A
	14	14	7	-	2.81	2.81	1.68	-	7.30(2.8-9.3)	2.22(0.98-3.58)	3.29	A
	18	14	7	-	3.52	2.61	1.57	-	7.70(3.5-10.0)	2.22(1.17-3.58)	3.47	A
	22	14	7	-	3.93	2.42	1.45	-	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	24	14	7	-	4.07	2.39	1.44	-	7.90(3.5-10.1)	2.20(1.17-3.58)	3.59	A
	18	18	7	-	3.19	3.19	1.42	-	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	22	18	7	-	3.59	2.98	1.33	-	7.90(3.5-10.1)	2.22(1.17-3.58)	3.56	A
	24	18	7	-	3.68	2.92	1.30	-	7.90(4.7-10.1)	2.22(1.27-3.58)	3.56	A
	9	9	9	-	2.40	2.40	2.40	-	7.20(2.8-8.9)	2.22(0.98-3.42)	3.24	A
	12	9	9	-	2.68	2.26	2.26	-	7.20(2.8-9.1)	2.22(0.98-3.54)	3.24	A
	14	9	9	-	3.11	2.10	2.10	-	7.30(2.8-9.2)	2.22(0.98-3.57)	3.29	A
	18	9	9	-	3.85	1.93	1.93	-	7.70(2.8-9.9)	2.22(0.98-3.56)	3.47	A
	22	9	9	-	4.26	1.77	1.77	-	7.80(2.8-10.1)	2.22(0.98-3.58)	3.51	A
	24	9	9	-	4.35	1.73	1.73	-	7.80(2.8-10.1)	2.20(1.17-3.54)	3.55	A
	12	12	9	-	2.53	2.53	2.14	-	7.20(2.8-9.1)	2.22(0.98-3.54)	3.24	A
	14	12	9	-	2.95	2.36	1.99	-	7.30(2.8-9.2)	2.22(0.98-3.57)	3.29	A
	18	12	9	-	3.68	2.18	1.84	-	7.70(2.8-9.9)	2.22(0.98-3.56)	3.47	A
	22	12	9	-	4.09	2.01	1.70	-	7.80(2.8-10.1)	2.22(0.98-3.58)	3.51	A
	24	12	9	-	4.18	1.97	1.66	-	7.80(2.8-10.1)	2.19(0.98-3.56)	3.56	A
	14	14	9	-	2.73	2.73	1.84	-	7.30(3.5-9.3)	2.22(1.17-3.58)	3.29	A
	18	14	9	-	3.48	2.58	1.74	-	7.80(3.5-10.0)	2.22(1.17-3.58)	3.51	A
	22	14	9	-	3.84	2.36	1.60	-	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	24	14	9	-	3.98	2.34	1.58	-	7.90(3.5-10.1)	2.22(1.27-3.56)	3.56	A
	18	18	9	-	3.12	3.12	1.56	-	7.80(4.7-10.1)	2.22(1.27-3.58)	3.51	A
	22	18	9	-	3.52	2.92	1.46	-	7.90(4.7-10.1)	2.22(1.27-3.58)	3.56	A
	12	12	12	-	2.43	2.43	2.43	-	7.30(2.8-9.2)	2.22(0.98-3.55)	3.29	A
	14	12	12	-	2.85	2.28	2.28	-	7.40(2.8-9.3)	2.22(0.98-3.58)	3.33	A
	18	12	12	-	3.57	2.12	2.12	-	7.80(3.5-10.0)	2.22(1.17-3.57)	3.51	A
	22	12	12	-	3.98	1.96	1.96	-	7.90(3.5-10.1)	2.22(1.17-3.58)	3.56	A
	24	12	12	-	4.07	1.92	1.92	-	7.90(3.5-10.1)	2.20(1.17-3.54)	3.59	A
	14	14	12	-	2.64	2.64	2.11	-	7.40(3.5-9.4)	2.22(1.17-3.58)	3.33	A
	18	14	12	-	3.34	2.48	1.98	-	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	22	14	12	-	3.75	2.31	1.85	-	7.90(3.5-10.1)	2.22(1.17-3.58)	3.56	A
	18	18	12	-	3.05	3.05	1.81	-	7.90(4.7-10.1)	2.22(1.27-3.58)	3.56	A
4 Room	7	7	7	7	1.90	1.90	1.90	1.90	7.60(1.6-9.6)	2.20(0.68-3.41)	3.45	A
	9	7	7	7	2.07	1.84	1.84	1.84	7.60(1.6-9.8)	2.22(0.68-3.54)	3.42	A
	12	7	7	7	2.37	1.78	1.78	1.78	7.70(1.6-9.9)	2.22(0.68-3.54)	3.47	A
	14	7	7	7	2.75	1.65	1.65	1.65	7.70(2.8-9.9)	2.22(0.98-3.56)	3.47	A
	18	7	7	7	3.43	1.52	1.52	1.52	8.00(2.8-10.1)	2.20(0.98-3.55)	3.64	A
	22	7	7	7	3.80	1.40	1.40	1.40	8.00(2.8-10.1)	2.22(0.98-3.58)	3.60	A
	9	9	7	7	2.04	2.04	1.81	1.81	7.70(2.8-9.7)	2.22(0.98-3.42)	3.47	A
	12	9	7	7	2.30	1.94	1.73	1.73	7.70(2.8-9.9)	2.22(0.98-3.55)	3.47	A
	14	9	7	7	2.68	1.81	1.61	1.61	7.70(2.8-10.0)	2.22(0.98-3.57)	3.47	A
	18	9	7	7	3.35	1.67	1.49	1.49	8.00(3.5-10.1)	2.20(1.17-3.55)	3.64	A
	22	9	7	7	3.71	1.54	1.37	1.37	8.00(3.5-10.1)	2.22(1.17-3.58)	3.60	A
	12	12	7	7	2.20	2.20	1.65	1.65	7.70(2.8-10.0)	2.22(0.98-3.55)	3.47	A
	14	12	7	7	2.60	2.08	1.56	1.56	7.80(2.8-10.0)	2.22(0.98-3.57)	3.51	A
	18	12	7	7	3.22	1.91	1.43	1.43	8.00(3.5-10.1)	2.20(1.17-3.56)	3.64	A
	22	12	7	7	3.59	1.77	1.32	1.32	8.00(3.5-10.1)	2.22(1.17-3.58)	3.60	A
	14	14	7	7	2.50	2.50	1.50	1.50	8.00(3.5-10.1)	2.22(1.17-3.58)	3.60	A
	18	14	7	7	3.04	2.25	1.35	1.35	8.00(3.5-10.1)	2.22(1.17-3.58)	3.60	A
	9	9	9	7	1.98	1.98	1.98	1.76	7.70(2.8-9.9)	2.22(0.98-3.56)	3.47	A
	12	9	9	7	2.24	1.89	1.89	1.68	7.70(2.8-10.0)	2.22(0.98-3.56)	3.47	A
	14	9	9	7	2.64	1.78	1.78	1.59	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	18	9	9	7	3.27	1.64	1.64	1.45	8.00(3.5-10.1)	2.22(1.17-3.56)	3.60	A
	22	9	9	7	3.64	1.51	1.51	1.34	8.00(3.5-10.1)	2.22(1.17-3.58)	3.60	A
	12	12	9	7	2.17	2.17	1.83	1.63	7.80(2.8-10.0)	2.22(0.98-3.56)	3.51	A
	14	12	9	7	2.54	2.03	1.71	1.52	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	18	12	9	7	3.15	1.87	1.58	1.40	8.00(3.5-10.1)	2.22(1.17-3.56)	3.60	A
	14	14	9	7	2.41	2.41	1.63	1.45	7.90(3.5-10.1)	2.22(1.17-3.58)	3.56	A
	18	14	9	7	2.98	2.21	1.49	1.32	8.00(4.7-10.1)	2.22(1.27-3.57)	3.60	A
	12	12	12	7	2.08	2.08	2.08	1.56	7.80(2.8-10.1)	2.22(0.98-3.56)	3.51	A
	14	12	12	7	2.47	1.98	1.98	1.48	7.90(3.5-10.1)	2.22(1.17-3.58)	3.56	A
	18	12	12	7	3.04	1.80	1.80	1.35	8.00(3.5-10.1)	2.22(1.17-3.56)	3.60	A
	14	14	12	7	2.32	2.32	1.86	1.39	7.90(3.5-10.1)	2.22(1.17-3.58)	3.56	A
	9	9	9	9	2.00	2.00	2.00	2.00	8.00(3.5-10.0)	2.22(1.17-3.56)	3.60	A
	12	9	9	9	2.21	1.86	1.86	1.86	7.80(3.5-10.0)	2.22(1.17-3.57)	3.51	A
	14	9	9	9	2.58	1.74	1.74	1.74	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	18	9	9	9	3.20	1.60	1.60	1.60	8.00(4.7-10.1)	2.22(1.27-3.58)	3.60	A
	22	9	9	9	3.56	1.48	1.48	1.48	8.00(4.7-10.1)	2.22(1.27-3.58)	3.60	A
	12	12	9	9	2.12	2.12	1.78	1.78	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	14	12	9	9	2.48	1.98	1.67	1.67	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	18	12	9	9	3.09	1.83	1.54	1.54	8.00(4.7-10.1)	2.22(1.27-3.58)	3.60	A
	14	14	9	9	2.36	2.36	1.59	1.59	7.90(4.7-10.1)	2.22(1.27-3.58)	3.56	A
	12	12	12	9	2.03	2.03	2.03	1.71	7.80(3.5-10.1)	2.22(1.17-3.58)	3.51	A
	14	12	12	9	2.41	1.93	1.93	1.63	7.90(3.5-10.1)	2.22(1.17-3.58)	3.56	A
	14	14	12	9	2.27	2.27	1.82	1.53	7.90(4.7-10.1)	2.22(1.27-3.58)	3.56	A
	12	12	12	12	2.00	2.00	2.00	2.00	8.00(3.5-10.1)	2.22(1.17-3.58)	3.60	A

AOY30LMAW4	Indoor model for each room				HEATING OPERATION							
					HEATING OPERATION					Power Input	COP	Heating class
					Room 1	Room 2	Room 3	Room 4	Total			
					KW	KW	KW	KW	KW	KW		
1 Room	7	-	-	-	2.70	-	-	-	2.70(1.5-3.3)	1.00(0.55-1.25)	2.70	E
	9	-	-	-	3.30	-	-	-	3.30(1.5-3.7)	1.22(0.55-1.41)	2.70	E
	12	-	-	-	3.80	-	-	-	3.80(1.5-4.5)	1.40(0.55-1.80)	2.71	E
	14	-	-	-	4.80	-	-	-	4.80(1.7-5.8)	1.48(0.58-1.90)	3.24	C
	18	-	-	-	6.00	-	-	-	6.00(3.2-7.1)	1.90(0.90-2.46)	3.16	D
	22	-	-	-	7.50	-	-	-	7.50(3.2-8.8)	2.29(0.90-2.92)	3.28	C
	24	-	-	-	8.20	-	-	-	8.20(3.2-9.0)	2.78(0.90-3.33)	2.95	D
2 Room	7	7	-	-	2.70	2.70	-	-	5.40(1.7-5.9)	1.58(0.55-1.80)	3.42	B
	9	7	-	-	3.30	2.70	-	-	6.00(1.7-7.2)	1.76(0.55-2.50)	3.41	B
	12	7	-	-	3.80	2.70	-	-	6.50(1.7-7.2)	2.20(0.55-2.45)	2.95	D
	14	7	-	-	4.80	2.70	-	-	7.50(3.3-8.7)	2.25(0.90-2.88)	3.33	C
	18	7	-	-	6.00	2.70	-	-	8.70(3.3-9.4)	2.67(0.90-3.00)	3.26	C
	22	7	-	-	6.84	2.46	-	-	9.30(3.3-10.5)	2.67(0.90-3.34)	3.48	B
	24	7	-	-	7.15	2.35	-	-	9.50(3.3-10.7)	2.70(0.90-3.50)	3.52	B
	9	9	-	-	3.30	3.30	-	-	6.60(3.3-7.4)	2.02(0.90-2.50)	3.27	C
	12	9	-	-	3.80	3.30	-	-	7.10(1.7-8.3)	2.35(0.55-3.08)	3.02	D
	14	9	-	-	4.80	3.30	-	-	8.10(3.3-9.3)	2.67(0.90-3.30)	3.03	D
	18	9	-	-	5.87	3.23	-	-	9.10(3.3-10.1)	2.67(0.90-3.40)	3.41	B
	22	9	-	-	6.53	2.87	-	-	9.40(3.3-10.7)	2.67(0.90-3.50)	3.52	B
	24	9	-	-	6.77	2.73	-	-	9.50(3.3-11.0)	2.67(0.90-3.50)	3.56	B
	12	12	-	-	3.80	3.80	-	-	7.60(3.3-8.8)	2.65(0.90-3.30)	2.87	D
	14	12	-	-	4.80	3.80	-	-	8.60(3.3-9.8)	3.06(0.90-3.50)	2.81	D
	18	12	-	-	5.69	3.61	-	-	9.30(3.3-10.3)	2.90(0.90-3.50)	3.21	C
	22	12	-	-	6.37	3.23	-	-	9.60(3.3-11.0)	2.78(0.90-3.50)	3.45	B
	24	12	-	-	6.56	3.04	-	-	9.60(3.3-11.0)	2.68(0.90-3.50)	3.58	B
	14	14	-	-	4.70	4.70	-	-	9.40(3.3-10.3)	2.93(0.90-3.50)	3.21	C
	18	14	-	-	5.33	4.27	-	-	9.60(3.3-11.1)	2.77(0.90-3.50)	3.47	B
	22	14	-	-	5.85	3.75	-	-	9.60(3.3-11.5)	2.65(0.90-3.50)	3.62	A
	24	14	-	-	6.06	3.54	-	-	9.60(4.3-11.5)	2.65(1.02-3.50)	3.62	A
3 Room	7	7	7	-	2.70	2.70	2.70	-	8.10(1.8-8.8)	2.30(0.55-2.65)	3.52	B
	9	7	7	-	3.30	2.70	2.70	-	8.70(3.3-9.3)	2.60(0.90-2.85)	3.35	C
	12	7	7	-	3.80	2.70	2.70	-	9.20(3.3-9.7)	2.83(0.90-3.10)	3.25	C
	14	7	7	-	4.15	2.42	2.42	-	9.00(1.8-10.1)	2.66(0.58-3.53)	3.38	C
	18	7	7	-	4.86	2.27	2.27	-	9.40(3.3-11.2)	2.46(0.87-3.52)	3.82	A
	22	7	7	-	5.28	2.11	2.11	-	9.50(3.3-11.6)	2.43(0.87-3.52)	3.91	A
	24	7	7	-	5.44	2.03	2.03	-	9.50(3.3-11.5)	2.47(0.87-3.52)	3.85	A
	9	9	7	-	3.30	3.30	2.70	-	9.30(3.3-9.7)	2.80(0.90-3.10)	3.32	C
	12	9	7	-	3.56	2.94	2.49	-	9.00(1.8-10.0)	2.69(0.58-3.51)	3.35	C
	14	9	7	-	4.00	2.75	2.33	-	9.10(3.3-10.2)	2.64(0.87-3.50)	3.45	B
	18	9	7	-	4.66	2.56	2.17	-	9.40(3.3-11.3)	2.45(0.87-3.50)	3.84	A
	22	9	7	-	5.13	2.42	2.05	-	9.60(3.3-11.7)	2.41(0.87-3.51)	3.98	A
	24	9	7	-	5.29	2.33	1.98	-	9.60(3.3-11.5)	2.46(0.87-3.51)	3.90	A
	12	12	7	-	3.33	3.33	2.33	-	9.00(1.8-10.1)	2.66(0.58-3.48)	3.38	C
	14	12	7	-	3.80	3.17	2.22	-	9.20(3.3-10.3)	2.62(0.87-3.48)	3.51	B
	18	12	7	-	4.45	2.97	2.08	-	9.50(3.3-11.4)	2.44(0.87-3.47)	3.89	A
	22	12	7	-	4.87	2.78	1.95	-	9.60(3.3-11.7)	2.40(0.87-3.49)	4.00	A
	24	12	7	-	5.03	2.69	1.88	-	9.60(3.3-11.7)	2.45(0.87-3.56)	3.92	A
	14	14	7	-	3.60	3.60	2.10	-	9.30(3.3-10.6)	2.59(0.87-3.48)	3.59	B
	18	14	7	-	4.19	3.35	1.96	-	9.50(3.7-11.5)	2.42(0.97-3.52)	3.93	A
	22	14	7	-	4.60	3.16	1.84	-	9.60(3.7-11.8)	2.40(0.97-3.52)	4.00	A
	24	14	7	-	4.77	3.05	1.78	-	9.60(3.3-11.7)	2.45(0.87-3.56)	3.92	A
	18	18	7	-	3.89	3.89	1.82	-	9.60(3.7-12.0)	2.40(0.97-3.52)	4.00	A
	22	18	7	-	4.25	3.65	1.70	-	9.60(3.7-12.0)	2.40(0.97-3.52)	4.00	A
	24	18	7	-	4.42	3.53	1.65	-	9.60(4.3-12.0)	2.40(1.12-3.52)	4.00	A
	9	9	9	-	3.00	3.00	3.00	-	9.00(3.3-10.0)	2.69(0.87-3.51)	3.35	C
	12	9	9	-	3.39	2.80	2.80	-	9.00(3.3-10.1)	2.67(0.87-3.48)	3.37	C
	14	9	9	-	3.87	2.66	2.66	-	9.20(3.3-10.3)	2.63(0.87-3.48)	3.50	B
	18	9	9	-	4.52	2.49	2.49	-	9.50(3.7-11.4)	2.44(0.97-3.48)	3.89	A
	22	9	9	-	4.94	2.33	2.33	-	9.60(3.7-11.7)	2.41(0.97-3.50)	3.98	A
	24	9	9	-	5.11	2.25	2.25	-	9.60(3.7-11.7)	2.45(0.97-3.57)	3.92	A
	12	12	9	-	3.22	3.22	2.65	-	9.10(3.3-10.3)	2.65(0.87-3.52)	3.43	B
	14	12	9	-	3.69	3.07	2.53	-	9.30(3.3-10.5)	2.61(0.87-3.52)	3.56	B
	18	12	9	-	4.29	2.86	2.36	-	9.50(3.7-11.4)	2.43(0.97-3.47)	3.91	A
	22	12	9	-	4.70	2.69	2.22	-	9.60(3.7-11.7)	2.40(0.97-3.48)	4.00	A
	24	12	9	-	4.86	2.59	2.14	-	9.60(3.7-11.8)	2.44(0.97-3.55)	3.93	A
	14	14	9	-	3.46	3.46	2.38	-	9.30(3.7-10.7)	2.58(0.97-3.46)	3.60	B
	18	14	9	-	4.04	3.23	2.22	-	9.50(3.7-11.6)	2.41(0.97-3.51)	3.94	A
	22	14	9	-	4.45	3.05	2.10	-	9.60(3.7-11.9)	2.40(0.97-3.51)	4.00	A
	24	14	9	-	4.62	2.95	2.03	-	9.60(4.3-11.9)	2.42(1.12-3.57)	3.97	A
	18	18	9	-	3.76	3.76	2.07	-	9.60(4.3-12.0)	2.40(1.12-3.52)	4.00	A
	22	18	9	-	4.12	3.53	1.94	-	9.60(4.3-12.0)	2.40(1.12-3.52)	4.00	A
	12	12	12	-	3.07	3.07	3.07	-	9.20(3.3-10.3)	2.63(0.87-3.49)	3.50	B
	14	12	12	-	3.49	2.91	2.91	-	9.30(3.3-10.6)	2.59(0.87-3.49)	3.59	B
	18	12	12	-	4.07	2.71	2.71	-	9.50(3.7-11.6)	2.42(0.97-3.52)	3.93	A
	22	12	12	-	4.48	2.56	2.56	-	9.60(3.7-11.9)	2.40(0.97-3.52)	4.00	A
	24	12	12	-	4.65	2.48	2.48	-	9.60(3.7-11.8)	2.43(0.97-3.54)	3.95	A
	14	14	12	-	3.32	3.32	2.76	-	9.40(3.7-10.8)	2.40(0.97-3.50)	3.92	A
	18	14	12	-	3.85	3.08	2.57	-	9.50(3.7-11.6)	2.40(0.97-3.49)	3.96	A
	22	14	12	-	4.25	2.92	2.43	-	9.60(3.7-11.9)	2.40(0.97-3.49)	4.00	A
	18	18	12	-	3.60	3.60	2.40	-	9.60(4.3-12.0)	2.40(1.12-3.52)	4.00	A
4 Room	7	7	7	7	2.35	2.35	2.35	2.35	9.40(1.8-10.8)	2.58(0.58-3.47)	3.64	A
	9	7	7	7	2.68	2.27	2.27	2.27	9.50(1.8-10.9)	2.57(0.58-3.51)	3.70	A
	12	7	7	7	3.06	2.14	2.14	2.14	9.50(1.8-11.1)	2.56(0.58-3.55)	3.71	A
	14	7	7	7	3.49	2.04	2.04	2.04	9.60(3.3-11.3)	2.53(0.87-3.56)	3.79	A
	18	7	7	7	4.00	1.87	1.87	1.87	9.60(3.3-12.0)	2.40(0.87-3.56)	4.00	A
	22	7	7	7	4.37	1.75	1.75	1.75	9.60(3.3-12.0)	2.40(0.87-3.56)	4.00	A
	9	9	7	7	2.57	2.57	2.18	2.18	9.50(3.3-10.9)	2.56(0.87-3.44)	3.71	A
	12	9	7	7	2.95	2.43	2.06	2.06	9.50(3.3-11.1)	2.55(0.87-3.54)	3.73	A
	14	9	7	7	3.36	2.31	1.96	1.96	9.60(3.3-11.4)	2.53(0.87-3.54)	3.79	A
	18	9	7	7	3.87	2.13	1.80	1.80	9.60(3.7-12.0)	2.40(0.97-3.55)	4.00	A
	22	9	7	7	4.23	1.99	1.69	1.69	9.60(3.7-12.0)	2.40(0.97-3.55)	4.00	A
	12	12	7	7	2.82	2.82	1.98	1.98	9.60(3.3-11.3)	2.54(0.87-3.57)	3.78	A
	14	12	7	7	3.20	2.67	1.87	1.87	9.60(3.3-11.5)	2.51(0.87-3.58)	3.82	A
	18	12	7	7	3.69	2.46	1.72	1.72	9.60(3.7-12.0)	2.40(0.97-3.58)	4.00	A
	22	12	7	7	4.05	2.31	1.62	1.62	9.60(3.7-12.0)	2.40(0.97-3.58)	4.00	A
	14	14	7	7	3.03	3.03	1.77	1.77	9.60(3.7-11.8)	2.49(0.97-3.58)	3.86	A
	18	14	7	7	3.51	2.81	1.64	1.64	9.60(3.7-12.0)	2.40(0.97-3.56)	4.00	A
	9	9	9	7	2.47	2.47	2.47	2.09	9.50(3.3-11.2)	2.55(0.87-3.54)	3.73	A
	12	9	9	7	2.87	2.36	2.36	2.01	9.60(3.3-11.3)	2.54(0.87-3.58)	3.78	A
	14	9	9	7	3.25	2.23	2.23	1.89	9.60(3.7-11.5)	2.52(0.97-3.58)	3.81	A
	18	9	9	7	3.74	2.06	2.06	1.75	9.60(3.7-12.0)	2.40(0.97-3.58)	4.00	A
	22	9	9	7	4.10	1.93	1.93	1.64	9.60(3.7-12.0)	2.40(0.97-3.58)	4.00	A
	12	12	9	7	2.72	2.72	2.25	1.91	9.60(3.3-11.4)	2.53(0.87-3.58)	3.79	A
	14	12	9	7	3.09	2.58	2.13	1.80	9.60(3.7-11.6)	2.50(0.97-3.58)	3.84	A
	18	12	9	7	3.58	2.39	1.97	1.67	9.60(3.7-12.0)	2.40(0.97-3.58)	4.00	A
	14	14	9	7	2.94	2.94	2.02	1.71	9.60(3.7-11.8)	2.48(0.97-3.58)	3.87	A
	18	14	9	7	3.41	2.73	1.87	1.59	9.60(4.3-12.0)	2.40(1.12-3.58)	4.00	A
	12	12	12	7	2.59	2.59	2.59	1.81	9.60(3.3-11.5)	2.52(0.87-3.58)	3.81	A
	14	12	12	7	2.95	2.46	2.46	1.72	9.60(3.7-11.7)	2.49(0.97-3.58)	3.86	A
	18	12	12	7	3.43	2.29	2.29	1.60	9.60(3.7-12.0)	2.40(0.97-3.56)	4.00	A
	14	14	12	7	2.81	2.81	2.34	1.64	9.60(3.7-11.9)	2.47(0.97-3.58)	3.89	A
	9	9	9	9	2.40	2.40	2.40	2.40	9.60(3.7-11.3)	2.55(0.97-3.58)	3.76	A
	12	9	9	9	2.76	2.28	2.28	2.28	9.60(3.7-11.4)	2.53(0.97-3.58)	3.79	A
	14	9	9	9	3.14	2.16	2.16	2.16	9.60(3.7-11.6)	2.51(0.97-3.58)	3.82	A
	18	9	9	9	3.62	1.99	1.99	1.99	9.60(4.3-12.0)	2.40(1.12-3.58)	4.00	A
	22	9	9	9	3.97	1.87	1.87	1.87	9.60(4.3-12.0)	2.40(1.12-3.58)	4.00	A
	12	12	9	9	2.63	2.63	2.17	2.17	9.60(3.7-11.5)	2.52(0.97-3.58)	3.81	A
	14	12	9	9	2.99	2.49	2.06	2.06	9.60(3.7-11.7)	2.50(0.97-3.58)	3.84	A
	18	12	9	9	3.47	2.31	1.91	1.91	9.60(4.3-12.0)	2.40(1.12-3.58)	4.00	A
	14	14	9	9	2.84	2.84	1.96	1.96	9.60(4.3-11.9)	2.48(1.12-3.58)	3.87	A
	12	12	12	9	2.51	2.51	2.51	2.07	9.60(3.7-11.6)	2.51(0.97-3.58)	3.82	A
	14	12	12	9	2.87	2.39	2.39	1.97	9.60(3.7-11.8)	2.49(0.97-3.58)	3.86	A
	14	14	12	9	2.73	2.73	2.27	1.87	9.60(4.3-11.9)	2.46(1.12-3.58)	3.90	A
	12	12	12	12	2.40	2.40	2.40	2.40	9.60(3.7-11.6)	2.50(0.97-3.58)	3.84	A

INVERTER

Simultaneous Multi Twin / Triple

CLASS A ALL DC **AOYD36LATT** NEW

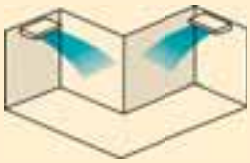
CLASS A ALL DC **AOYD45LATT** NEW

CLASS A ALL DC **AOYD54LATT** NEW

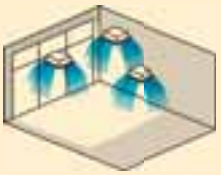
Can support various installation scenes from office to commercial space by same place multi connection of up to 3units.

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.

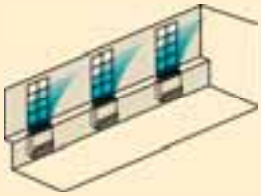
Installation according to floor layout



Installation according to lighting conditions



Installation according to layout and lighting conditions



Specifications

Model No.	Indoor unit			Compact Cassette		
				AUYF18LB	AUYF22LB	AUYF24LB
Power Source			V/ Ø /Hz	230/1/50	230/1/50	230/1/50
Air Flow (High)	Cooling	H/M/L/Q	m^3/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

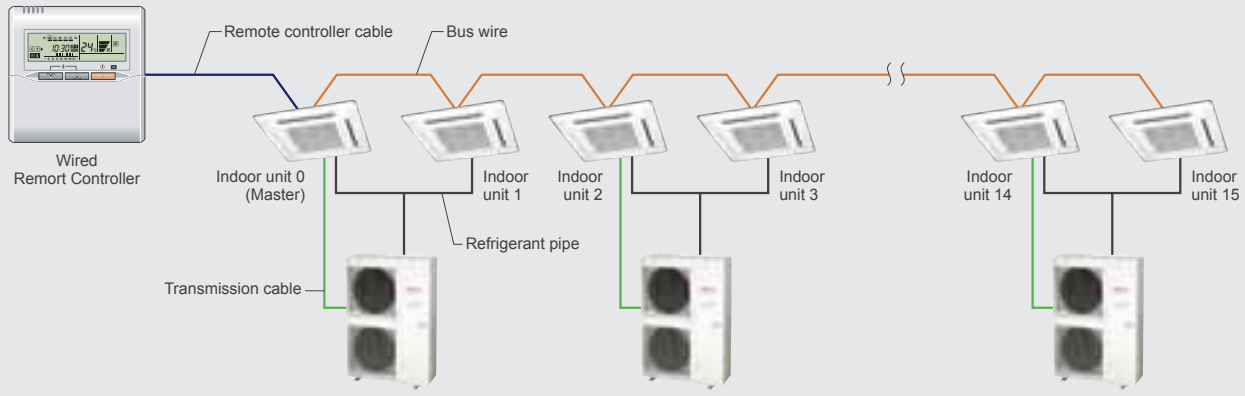
Model No.	Indoor unit			Duct			Floor/Ceiling Universal		
				ARYF18LBLU	ARYF22LBTU	ARYF24LBTU	ABYF18LB	ABYF22LBT	ABYF24LBT
Power Source			V/ Ø /Hz	230/1/50	230/1/50		230/1/50	230/1/50	
Air Flow (High)	Cooling	H/M/L/Q	m^3/h	830/670/580/480	1100/910/750/580		780/700/560/500	980/820/680/540	
Net Dimension 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	
Weight			kg(lbs)	23 (51)	38 (84)		27 (60)	27 (60)	

Model No.	Outdoor unit		AOYD36LATT	AOYD45LATT	AOYD54LATT
Power Source		V/ Ø /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			30	30	30
Operation Range	Cooling	°CDB	-15~46	-15~46	-15~46
	Heating		-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 .

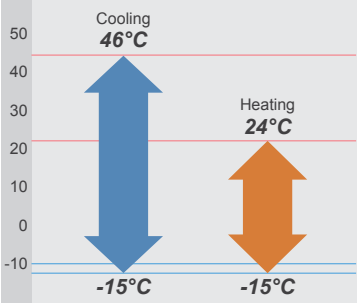
Simultaneous control

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



Set the indoor unit number using DIP switch on indoor unit circuit board.

Low ambient operation

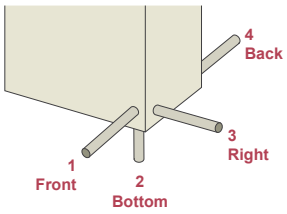


External input

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

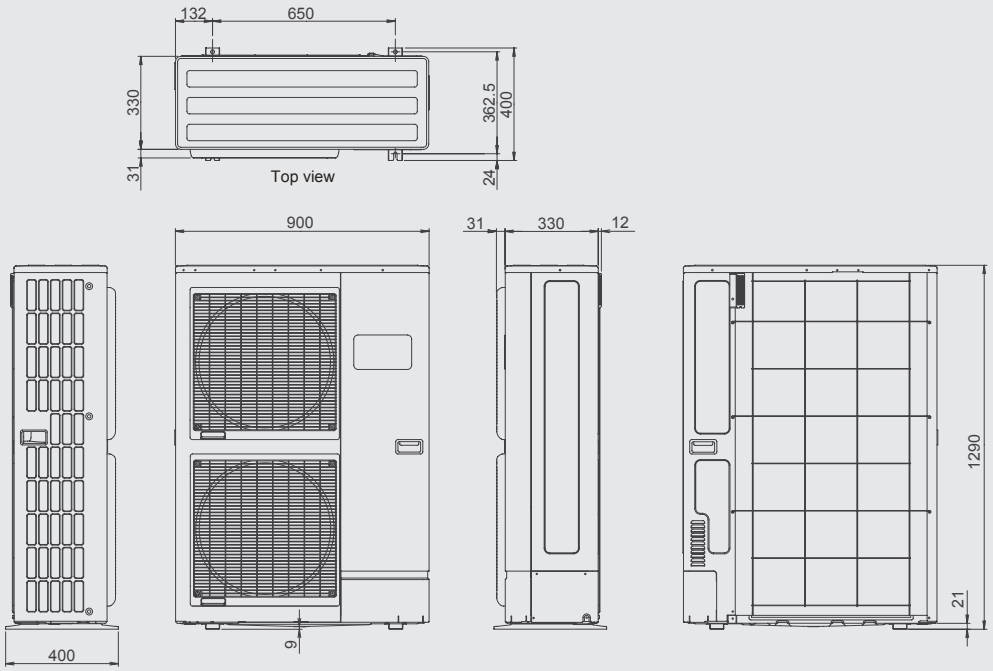
Four directions piping connection is possible. The perfect route can be selected according to the installation.



Dimensions

Models: AOYD36LATT / AOYD45LATT / AOYD54LATT

(Unit : mm)

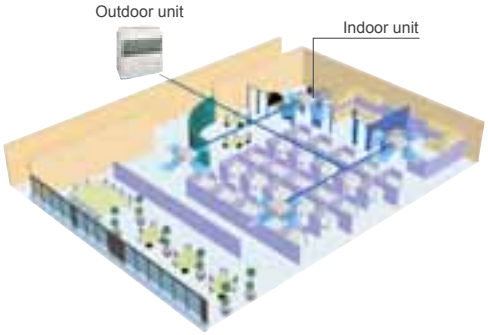


Big Multi Type Systems

Simultaneous Operation

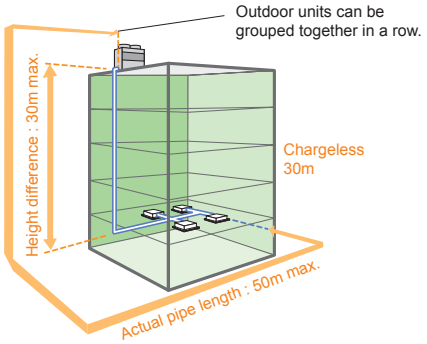
Features of System Operations

- 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

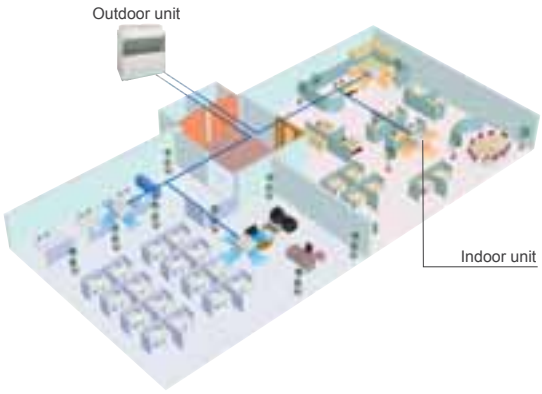
CAPACITY (BTU)	CASSETTE (COMPACT)	CASSETTE	DUCT	FLOOR/CEILING UNIVERSAL	CEILING (LARGE)
45,000		●	●		●
36,000		●	●		●
30,000		●	●		●
(25,000)		●	●		
24,000				●	
18,000	●			●	



Individual Operation

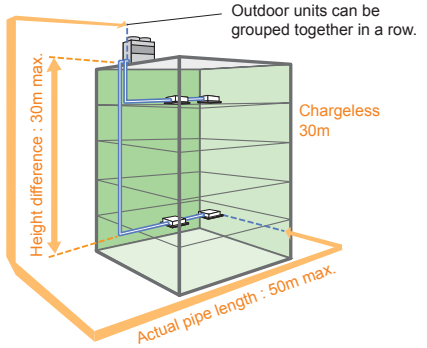
Features of System Operations

- 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

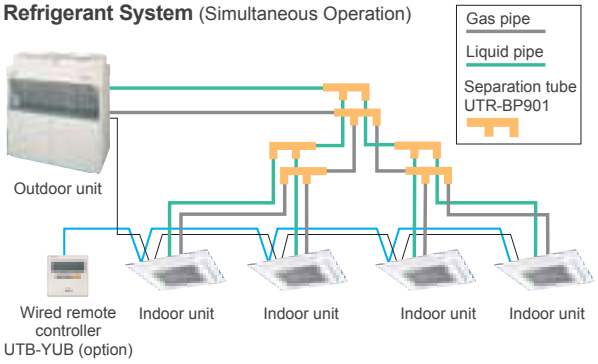
CAPACITY (BTU)	CASSETTE (COMPACT)	CASSETTE	DUCT	FLOOR/CEILING UNIVERSAL	CEILING (LARGE)
45,000		●	●		●
36,000		●	●		●
30,000		●	●		
(25,000)					
24,000				●	
18,000	●			●	



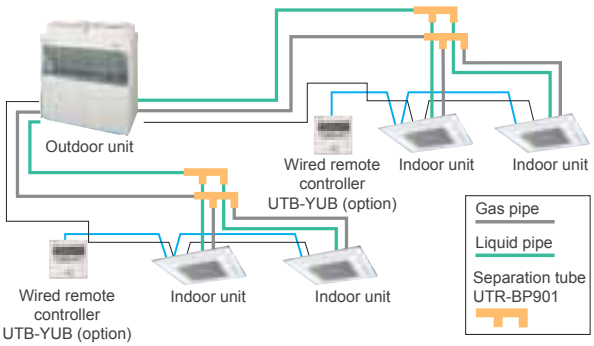
Specifications

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	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	12.40~12.70
	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	13.40~13.70
	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	46,000~47,000
Moisture Removal		l/h	2.20	3.40	4.00	4.00	5.50	2.50	3.00	4.00	5.50
Airflow Rate	High	m^3/h	800	900	1,270	1,660	1,850	1,600	1,650	2,000	2,200
	Med		680	780	1,120	1,500	1,660	1,450	1,550	1,800	2,000
	Low		560	660	860	1,270	1,430	1,280	1,350	1,600	1,800
Fan Motor Output		W	30	40	160	160	160	70	275	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	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	270x1,210x700
Weight		kg	28	30	48	48	48	43	43	45	45
Connection Method			Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare	Flare
Connection Pipe Size (Smallø/Largeø)		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	9.53/19.05
Operation Range	Cooling	ºC	18~30	18~30	18~30	18~30	18~30	18~30	18~30	18~30	18~30
	Heating		16~30	16~30	16~30	16~30	16~30	16~30	16~30	16~30	16~30
Grille			-	-	-	-	-	-	-	-	-

Refrigerant System (Simultaneous Operation)



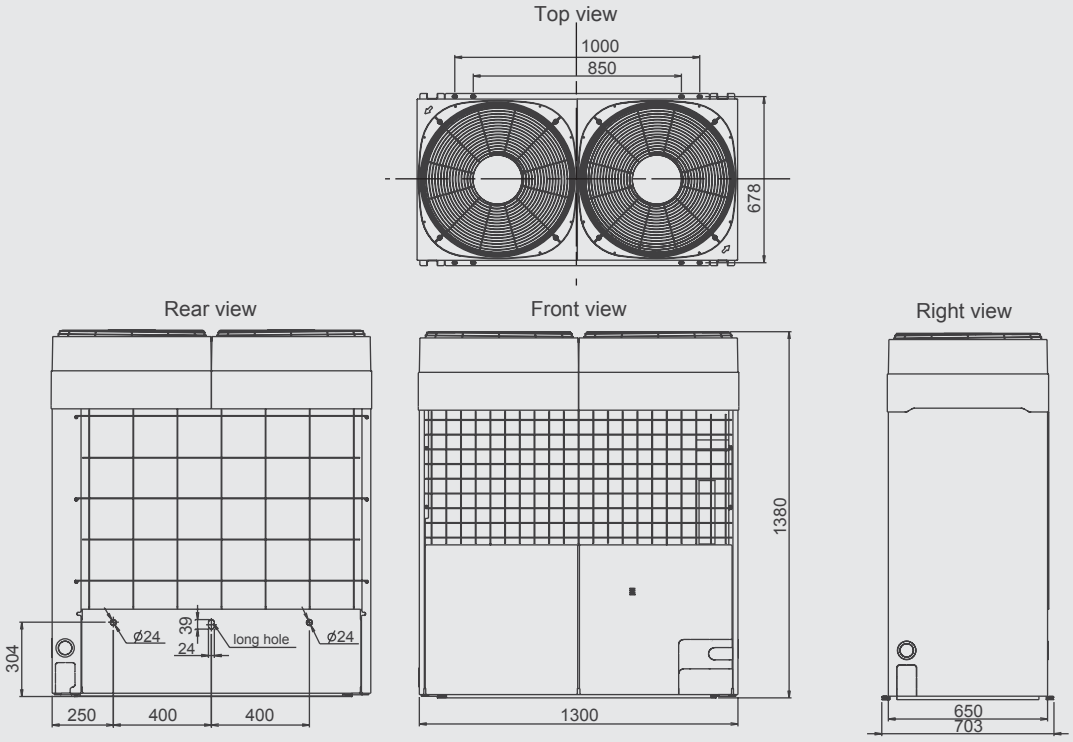
Refrigerant System (Individual Operation)



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-UDYD-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		-	28.60	-	28.60
Total Input Watts		Cooling	kW	9.40	9.40	9.40	9.40
		Heating		-	10.00	-	10.00
Total Ampacity		Cooling	A	16.20	16.20	16.20	16.20
		Heating		-	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
COP		Heating		-	2.86	-	2.86
Fan Speed		High	r.p.m	730	730	730	730
		Low		360	360	360	360
Airflow Rate		High	m^3/h	9,800	9,800	9,800	9,800
Fan Type x Q'ty				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
Pipe	Size	Liquid/Gas	mm	9.53/19.05	9.53/19.05	12.70/28.58	12.70/28.58
	Max Length		m	50	50	50	50
	Max Height			30	30	30	30
	Max Chargeless Length			30	30	30	30
Operation(Outdoor)		Cooling	°C	0~52	0~52	0~52	0~52
		Heating		-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.

Contents

AIRSTAGE J

AIRSTAGE S

AIRSTAGE V

2008 New Model
AIRSTAGE V-II series

THE POSSIBILITIES ARE INFINITE

FUJITSU

AIRSTAGE™

Variable Refrigerant Flow system For Home & Buildings

FUJITSU GENERAL LIMITED

AIRSTAGE™ J

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	Heating COP
3.20*	3.40*

* "EER/COP" is the coefficient of performance (=capacity (kW) ÷ input power (kW)).
*EER/COP values are base 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

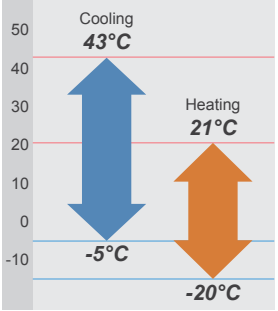
Newly designed larger fan and double casing bell mouth construction reduce noise emissions.

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

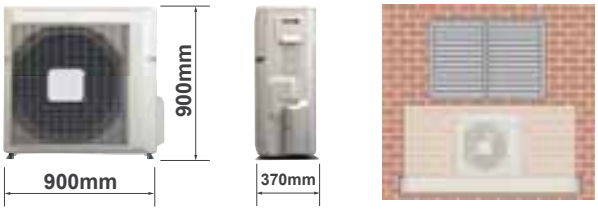
Outdoor unit operates over an ambient temperature range of -5°C to 43°C for cooling and -20°C to 21°C for heating.

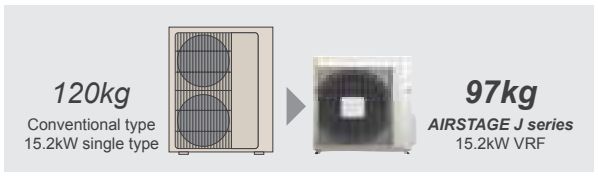


Design Versatility

Compact design

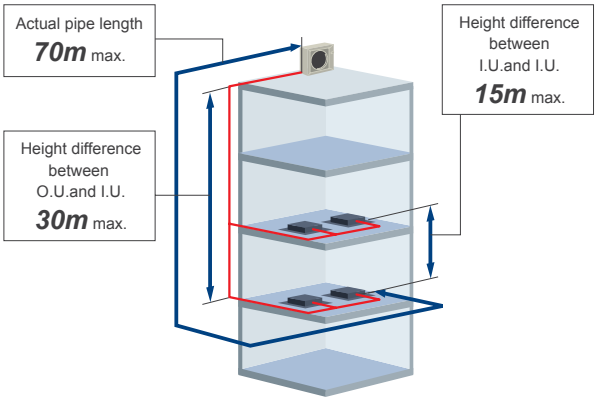
Small, compact casing can be easily concealed. The low overall height allows the unit to be neatly positioned beneath a window.





Long piping length

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

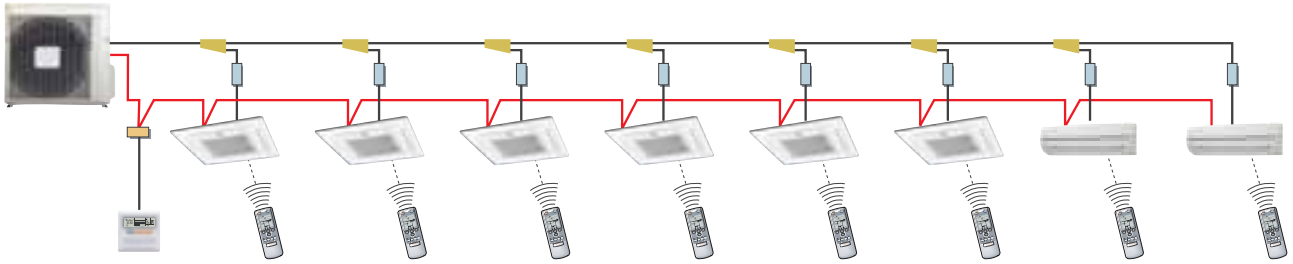


High capacity connection

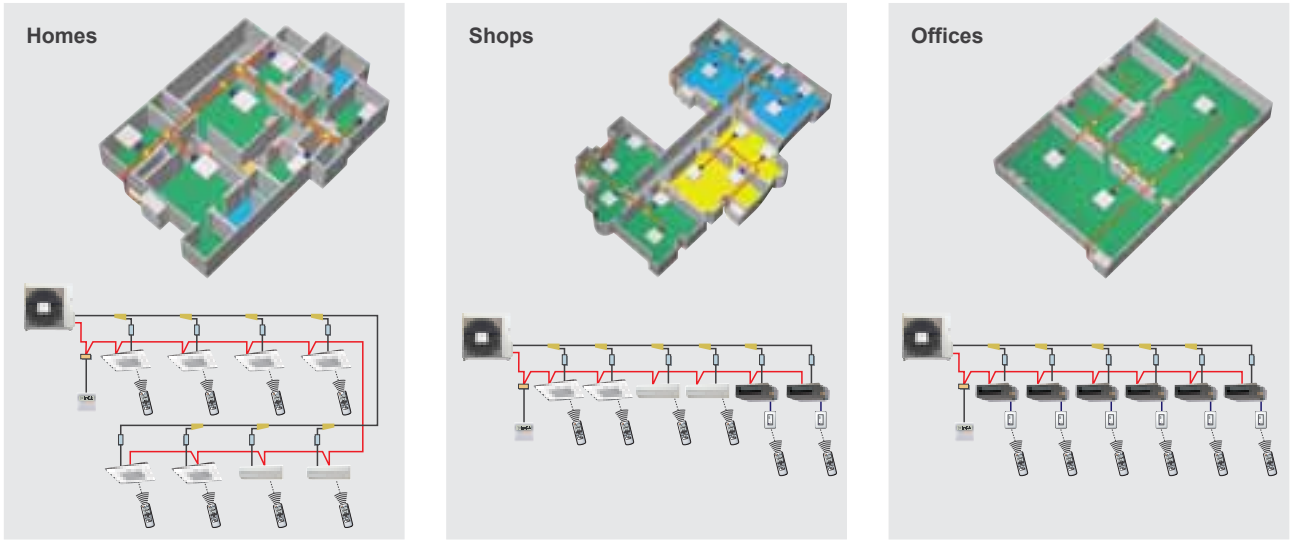
•Up to 8 indoor units can be connected to 1 outdoor unit. Furthermore, the indoor unit connection capacity can be up to 150% of the outdoor unit rating. This increases design flexibility.
•All indoor units are supplied with a Wireless Remote Controller.

Max. 8 indoor units connectable

Indoor unit connectable capacity 150%



System that allows individual air conditioning of multiple rooms

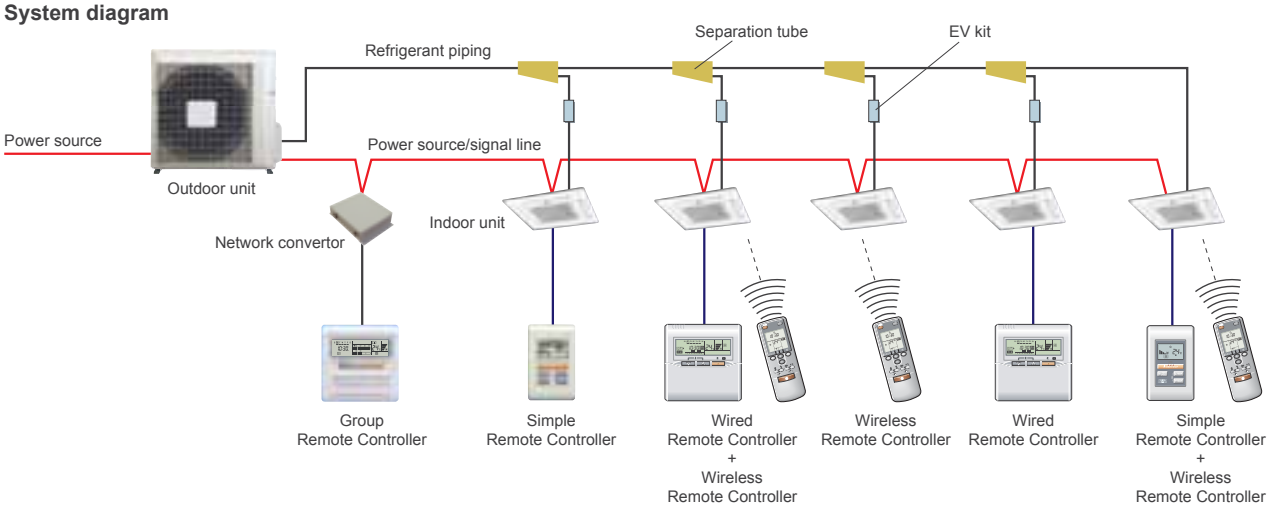


Easy Installation

Simple piping system

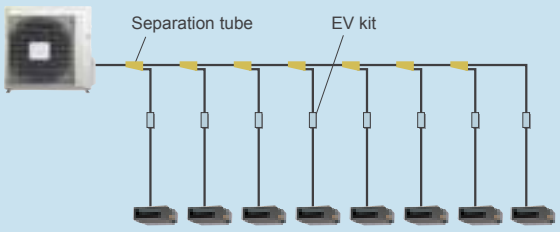
The wiring work is simple in the connection wiring system one by one. The dedicated communication line is unnecessary.
The electrical work is simple because of single-phase power supply.

System diagram

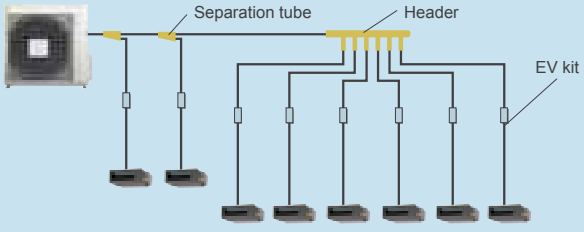


Piping connection examples

Separation tube system

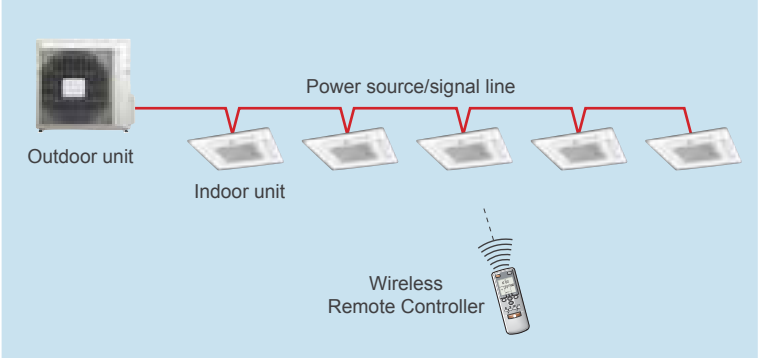


Separation tube + header system



Easy system address setting

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

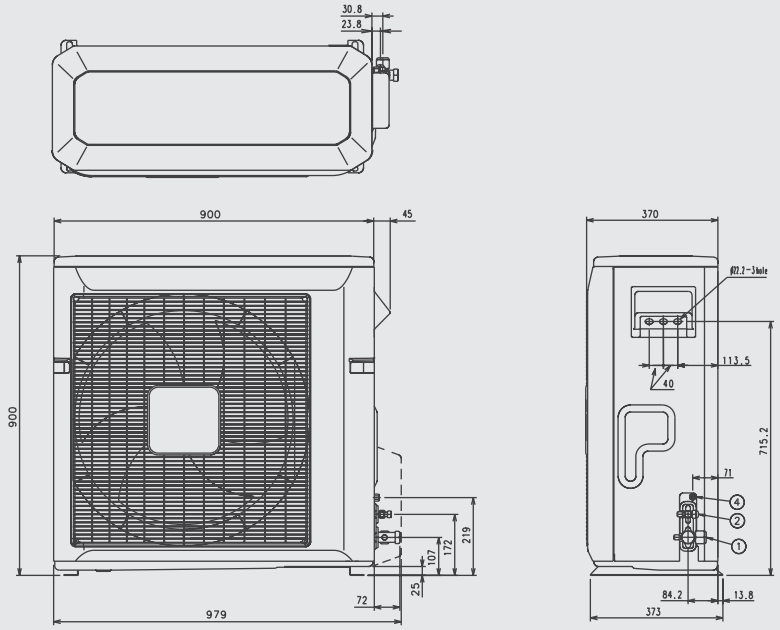


Outdoor units specifications

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		16.6
Input power	Cooling	kW	4.75
	Heating		4.88
EER	Cooling	W/W	3.2
COP	Heating		3.4
Air flow rate	High	m³/h	5,250
Sound pressure level	Normal operation mode	dB (A)	56
	Silent operation mode		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		ø19.05
Operation range	Cooling	˚C	-5 to 43
	Heating		-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]

AIRSTAGE™ J

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	
Compact Cassette	 AU7UFAAR	 AU9UFAAR	 AU12UFAAR	 AU14UFAAR	 AU18UFAAR		
Slim Type Cassette						Slim Type  AU20UFARR	
Compact Duct	 ARXA07LALR	 ARXA09LALR	 ARXA12LALR	 ARXA14LALR	 ARXA18LBLR		
Duct							
Compact Wall Mounted	 AS7UFADR	 AS9UFADR	 AS12UFADR	 AS14UFADR			
Wall Mounted					 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
			Slim Type  AU25UFARR	Slim Type  AU30UFARR	 AU36UFASR	 AU45UFASR	 AU54UFASR
	 ARXA22LBLR						
			 AR25UFAAR ARXB25LATR	 AR30UFAAR ARXB30LATR	 AR36UFAAR	 AR45UFAAR	
		 AS24UFAJR		 AS30UFAJR			

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^3/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	230 x 570 x 570				
Weight	Net	kg	18				
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				
	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^3/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	42	45	48	49	52
	Med		38	40	42	44	47	49
	Low		37	39	39	41	43	45
Dimensions (H x W x D)	Net	mm	246 x 830 x 830			296 x 830 x 830		
Weight	Net	kg	34			40		
Connection pipe diameter	Liquid (Flare)	mm	ø6.35		ø9.52			
	Gas (Flare)		ø15.88			ø19.05		
	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]

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		W	32		49		103	77	155		155		315	
Airflow rate	High	m^3/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		Pa	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)	Net	mm	217 x 663 x 595		217 x 953 x 595				270 x 1,210 x 700					
Weight	Net	kg	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		W	26	33	40		38	50	60
Airflow rate	High	m^3/h	410	500	540		840	950	1,050
	Med		370	450	510		700	800	940
	Low		350	410	480		600	670	780
Sound pressure level	High	dB(A)	30	36	39		42	45	48
	Med		27	33	37		39	41	45
	Low		26	30	34		35	37	41
Dimensions (H x W x D)	Net	mm	257 x 808 x 187				320 x 1,120 x 220		
Weight	Net	kg	8				16		
Connection pipe diameter	Liquid (Flare)	mm	ø6.35						ø9.52
	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]

AIRSTAGE™ S

Maximum comfort from inbuilt flexibility

Heat recovery
AO90MPCMF

High Efficiency

Operating system

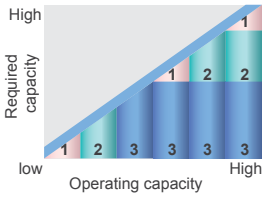
Cooling and heating can be performed simultaneously within the same refrigerant circuit.
Energy savings are made by transferring heat between the indoor units when in heat recovery operation.

Cooling EER	Heating COP
2.98*	3.15*

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

Smooth operation delivering high efficiencies

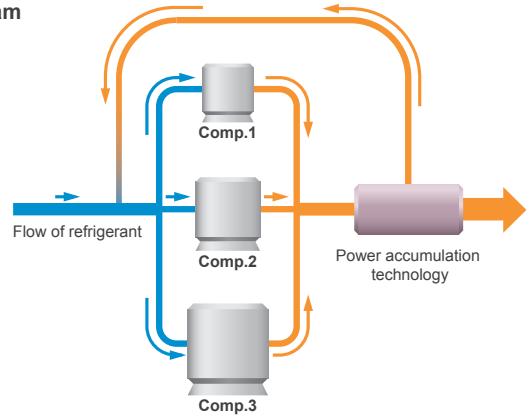
The configuration of 3 constant speed compressors with differing capacities and power accumulation technology ensure smooth step changes and highly efficient operation.



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

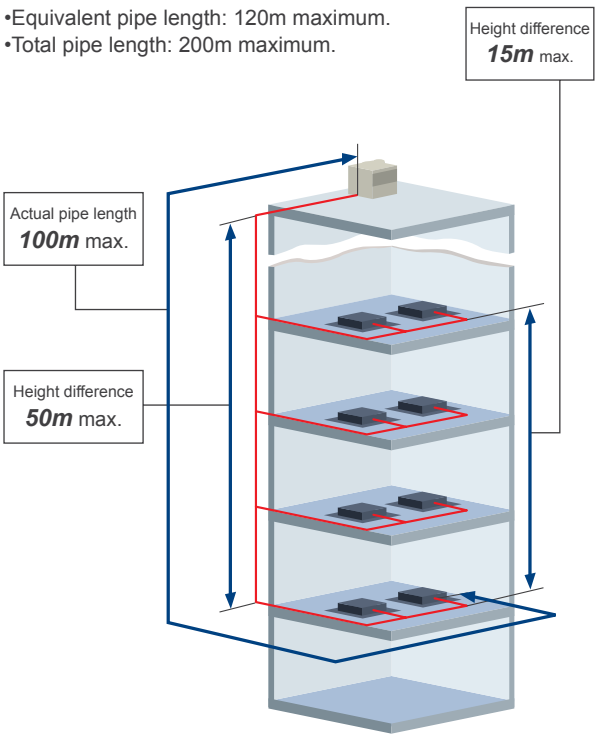
Heat recovery operation

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.



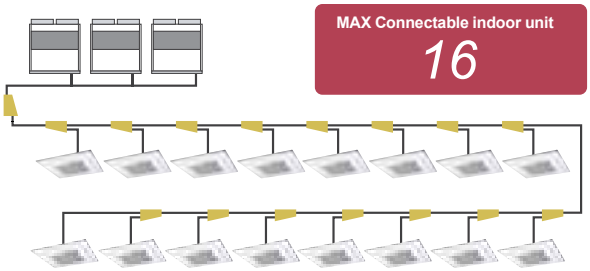
*When outdoor unit is located above indoor unit. When outdoor unit is located below the indoor unit the height difference is 40m maximum.

High capacity connetion

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

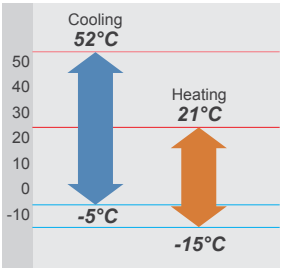
Connectable capacity of indoor units for one outdoor unit
50 to 130%

MAX Connectable indoor unit
16



Wide operating range

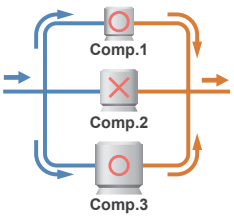
Outdoor unit operates over an outdoor temperature range of -5°C to 52°C for cooling and -15°C to 21°C for heating.



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)

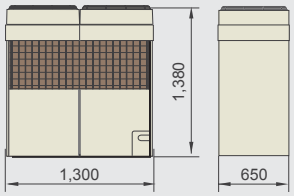
Easy Installation

Space saving

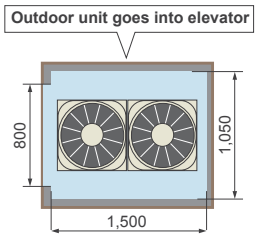
Space saving by setting side by side without space in between.

Setting size 5.72 (Unit: m²)

Dimensions



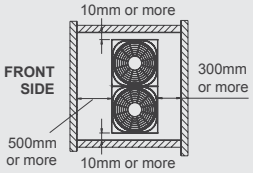
(Unit : mm)

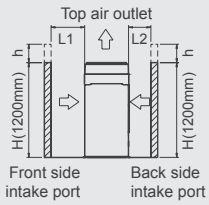


(Unit : mm)

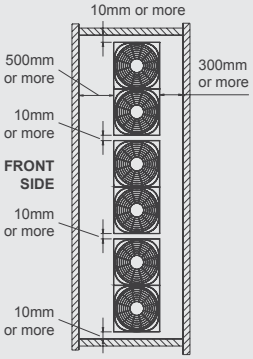
Installation space

For individually





For continuous



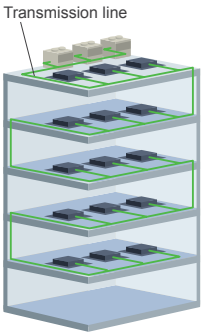
There is no height restriction for the side wall.
The height(H) of front and rear wall should be less than1,200mm.
If the height of wall exceeds 1,200mm by h mm, add h mm to the service space width for L1 and L2.
H≤1,200 : L1≧500, L2≧300 H>1,200 + h : L1>500 + h, L2>300 + h

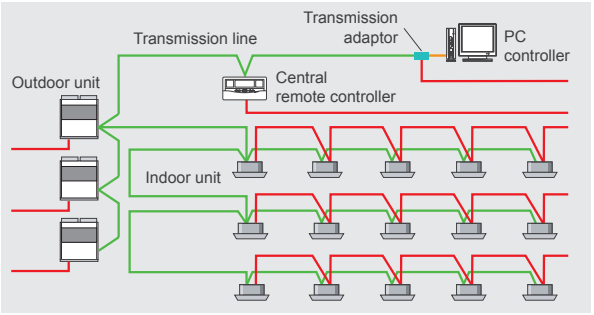
Easy wiring

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

Power supply wiring:
Power supply for outdoor and indoor units is different.

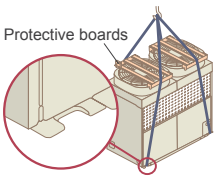
- **Outdoor unit**
  3Ø 4W 380 - 415V 50Hz
- **Indoor unit:**
  1Ø 2W 220 - 240V 50Hz





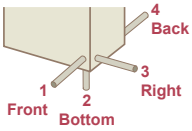
Craning into place

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



Four-direction pipe

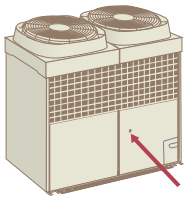
Four-direction piping allows a variety of installation configurations.
Easy installation and pipe direction setting.



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.



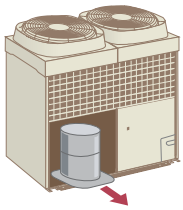
Operation display

Pump down control

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

Easy replacement

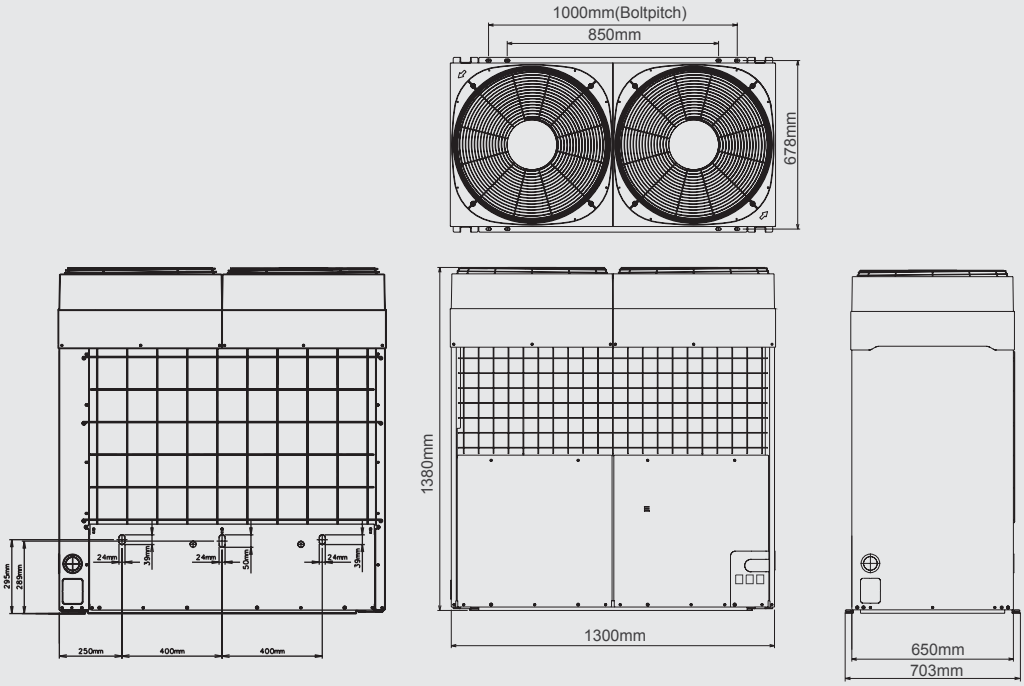
A pull-out plate ensures easy compressor replacement if necessary.



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		31.5
Input power		Cooling	kW	9.40
		Heating		10.0
EER		Cooling	W/W	2.98
COP		Heating		3.15
Air flow rate		High	m³/h	9,800
Sound pressure level	Normal operation mode		dB (A)	57
	Silent operation mode			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		Discharge Gas ø19.05 / Suction Gas ø28.58
Operation range		Cooling	˚C	-5 to 52
		Heating		-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.

AIRSTAGE™ V

Building air conditioning developed to care for people and their surroundings

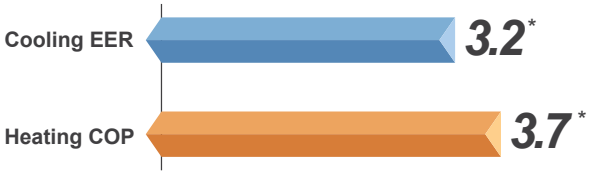
Master units	Slave units
AJYA72LBTF(22.4kW)	AJYA72UBTF(22.4kW)
AJYA90LBTF(28.0kW)	AJYA90UBTF(28.0kW)
AJY126LBTF(40.0kW)	AJY126UBTF(40.0kW)

Master units Slave units

High Efficiency

Higher level of EER/COP

All key features of the outdoor unit result in a higher level of EER/COP

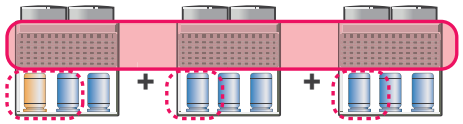


* The data refers to a 10HP outdoor unit.
* "EER/COP" is the coefficient of performance [= capacity (kW) ÷ input power (kW)].
*EER/COP values are based on our own testing method.

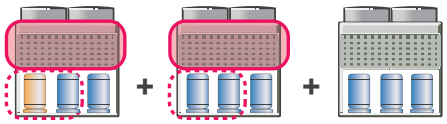
High efficiency operation

The heat exchanger is operated at maximum efficiency by effectively using the heat exchanger of each outdoor unit reciprocally.

Example: The larger heat exchanger than the capacity of a compressor is used in each outdoor unit. (V series)



Conventional method



Energy saving technology

14HP(Master unit)

Large propeller fan: A newly designed fan is adopted for achieving higher performance and reducing the noise level.

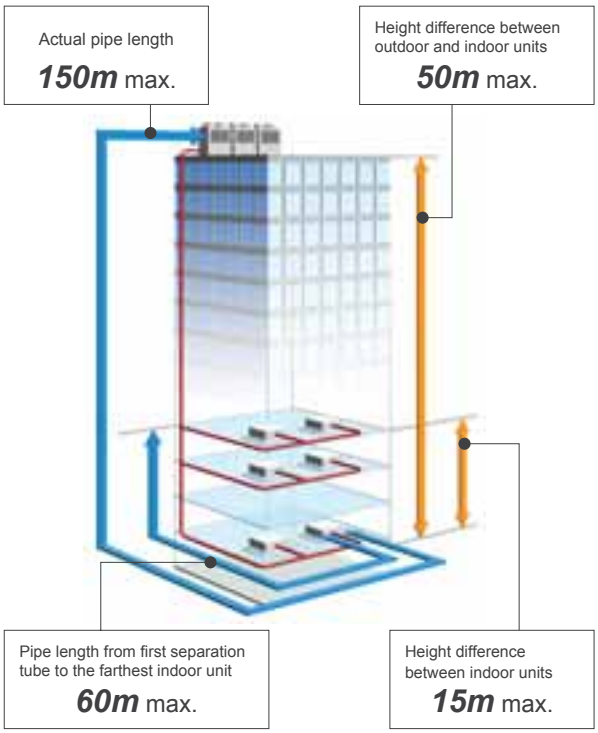
Sine-wave DC Inverter Control: By adopting Sine-Wave DC Inverter Control for smoothing the motor running, energy saving and high efficiency operation are realized

DC inverter + Scroll compressor:
By combining the DC inverter controlled scroll compressor with the constant speed scroll compressor, an operating system of energy saving and high efficiency is realized.

Design Versatility

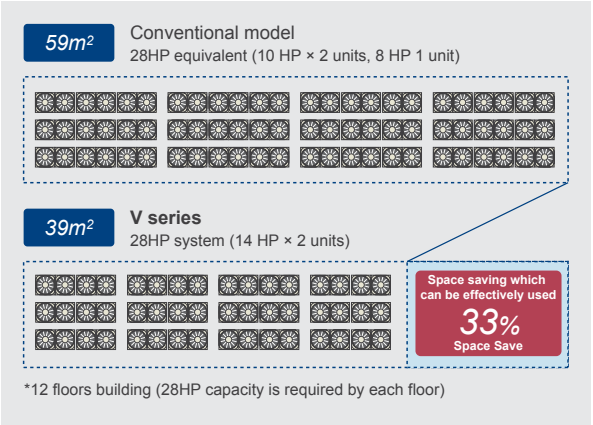
Long piping system design

With the V Series, installation up to a maximum piping length of 150m and a maximum height difference of 50m is possible. In addition, the piping can be extended up to a maximum of 60m from the first separation tube.



Compact outdoor unit improves effective use of space

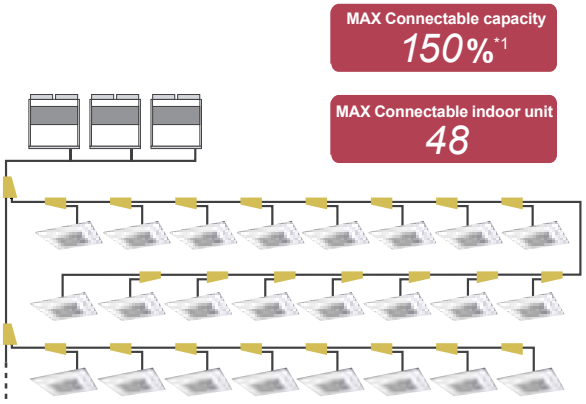
Installation space can be reduced freeing up valuable building space



*12 floors building (28HP capacity is required by each floor)

High capacity connetion

The Indoor unit connection ratio of this system can be from 50 to 150%(*1) of the outdoor unit capacity, thus achieving a high level of diversification with up to 48 indoor units (30 to 42HP) connectable on one refrigerant system.

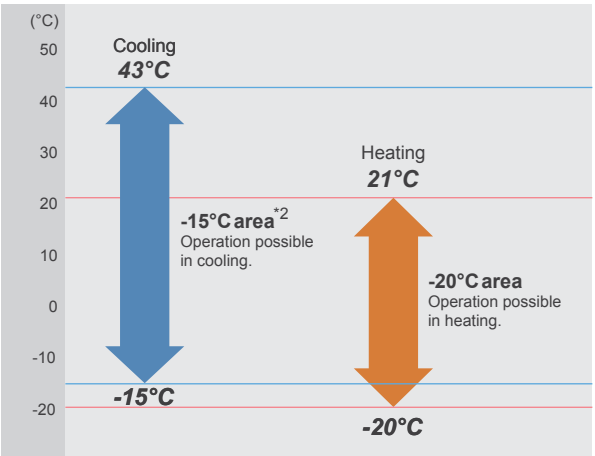


*1. Indoor unit connectable capacity is 75 to 150% for single outdoor unit system (8 - 14HP) in case of including indoor unit model code 18 and under in the system.

Note: When all indoor units are operating at maximum capacity individual indoor units operate at a slightly lower capacity.(When connecting more than 100%)

Wide operating ranges

World's top class low outdoor air temperature operating range is achieved. This extends the potential locations for use to the cold regions of the world.

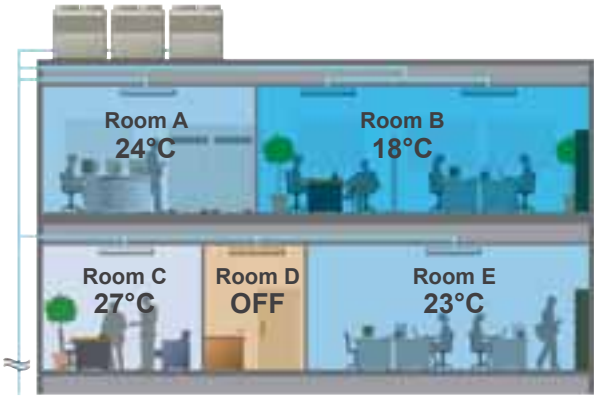


*2. Note : When outdoor units connect multiple, operating range is from -5°C to 43°C in cooling.

Improved Comfort

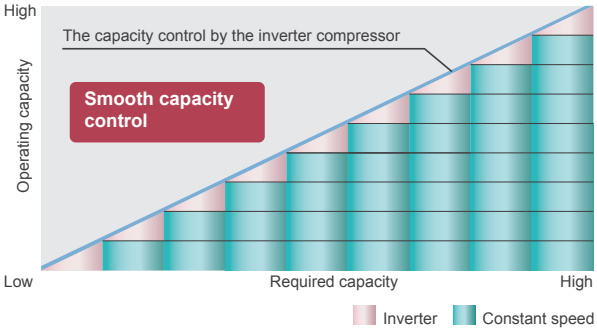
Individual air conditioning system

Pleasant air conditioning meeting individual room requirements.



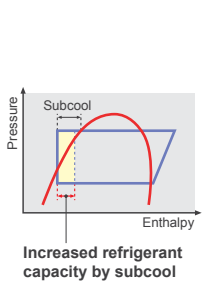
Inverter control

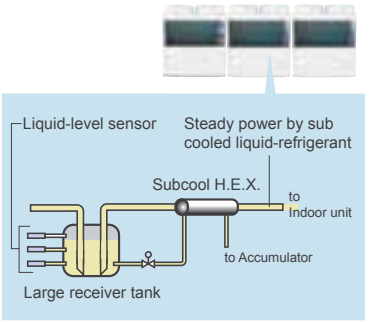
Comfort and energy saving is achieved by the adoption of linear step control in conjunction with inverter and constant speed compressor combination, which allows more precise control of the necessary refrigerant circulation amount required according to the system load. This also allows for a comfortable environment by use of smooth capacity control.



Liquid level balance control

Balancing of the refrigerant in the system is optimized by liquid level balance control and subcool circuit between the receiver tanks of each outdoor unit. Stable refrigerant supply allows long pipe runs and achieves stable operational system performance whilst reducing unpleasant refrigerant noise.

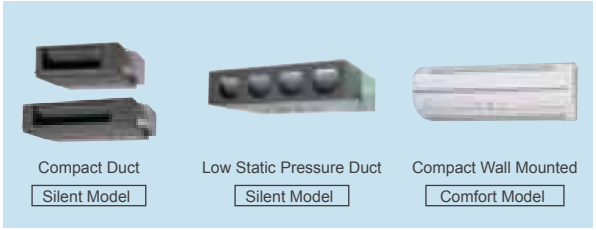




Quiet operation

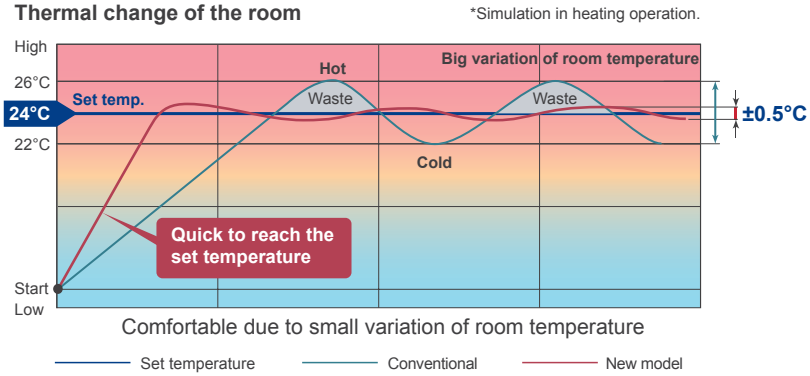
Outdoor unit: Quiet operating sound outdoor unit achieved Operating noise has been reduced further through the application of a new dual casing bell mouth and large fan. The noise level can be reduced by 4-5dB (A) compared to normal operation by selecting silent operation.

Indoor unit: Quiet indoor units suited for bedrooms and other rooms which require quietness are available.



Room temperature control

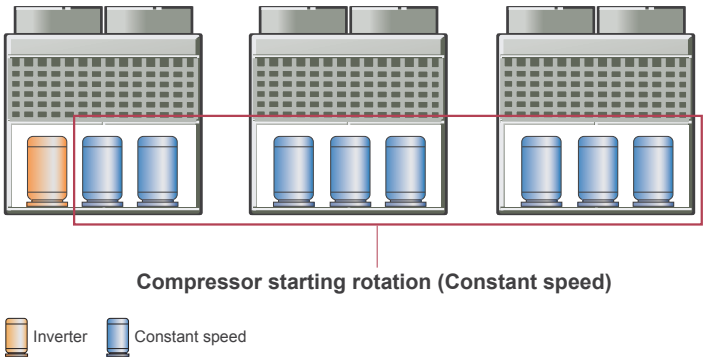
High precision ±0.5°C ensures comfortable temperature control of the room. This is achieved by smooth refrigerant flow, controlled by inverter and by the indoor unit electronic expansion valve.



High Reliability

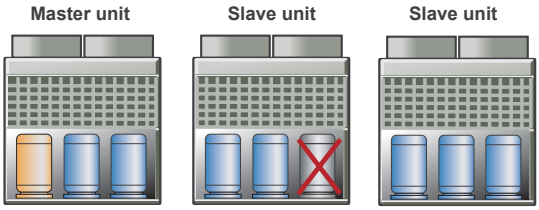
Compressor rotation control

Improvement of long life by reducing compressor wear
In addition to control which reduces the number of times the compressor is started and stopped, the load at starting is shared and equalized by rotation control. This rotation improves the durability and reliability of each compressor.

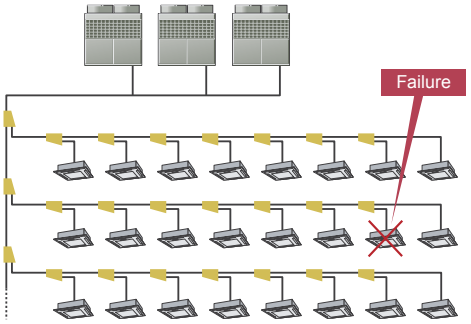


Emergency operation

Outdoor unit:
There is no immediate system shutdown if trouble occurs in any compressor. The other compressors continue to operate on an emergency basis.



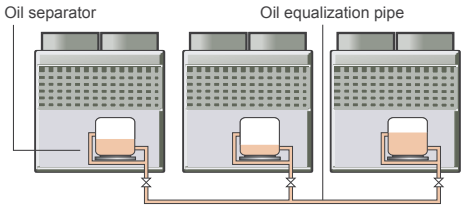
Indoor unit:
Each indoor unit is controlled individually on the system network. This allows all indoor units continue to run unaffected even if trouble should occur at any indoor unit(s) in one system.



Optimum oil control

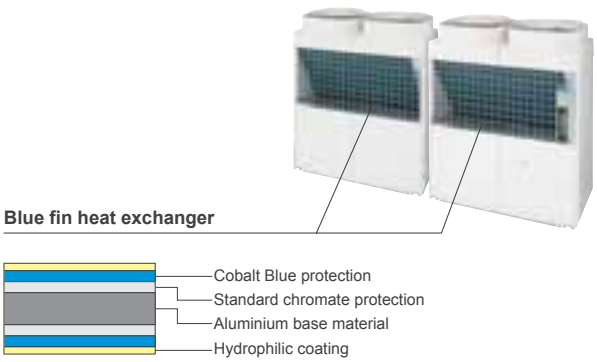
Stable operation of compressor by optimum oil control

1. **High trapping efficiency, large capacity cyclone type oil separator**
2. **Oil balance control which maintains uniform oil levels**
3. **Optimum EEV control for oil and refrigerant circulation**



Adoption of blue fin heat exchanger

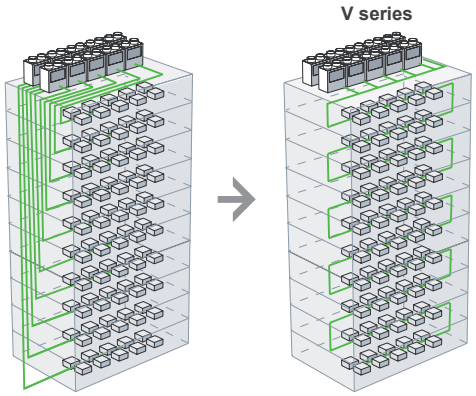
Corrosion-resistance of the heat exchanger even in coastal areas has been improved by blue fin treatment of the outdoor unit heat exchanger.



Easy Installation

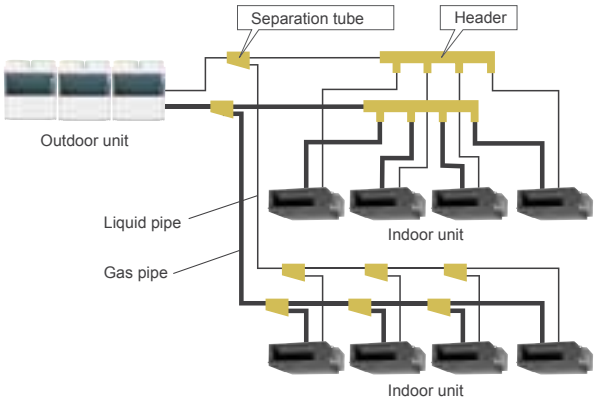
Simple signal line connection

Connection method simplifies installation and prevents errors
By using our wiring connection method, the wiring length is reduced compared to other wiring systems.

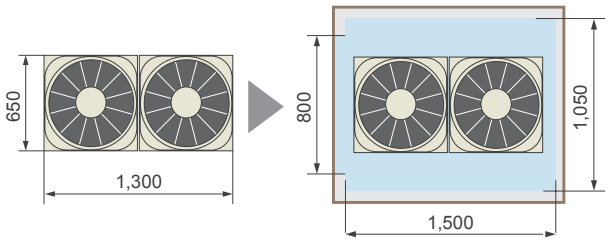


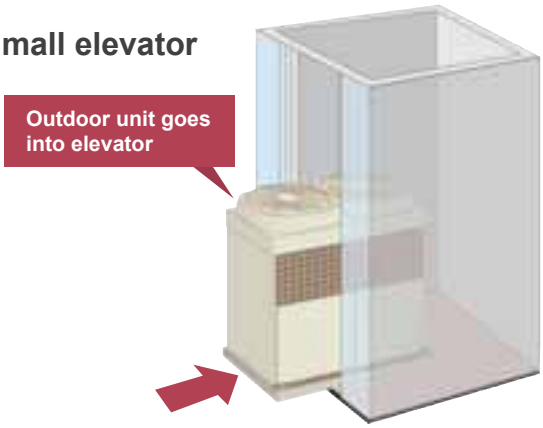
Simple piping system

Separation tubes and headers provide connection flexibility and simplicity reducing installation costs.



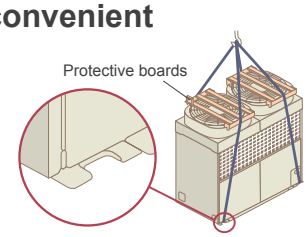
Compact outdoor unit can be carried in a small elevator





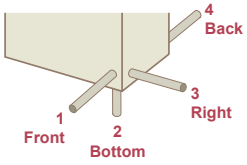
Lifting belt hooks convenient in crane work

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



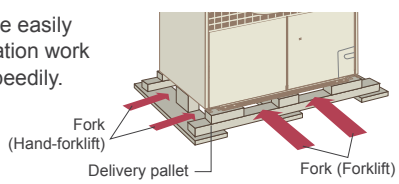
Choice of 4-direction piping connection

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



Easy removing pallet

Delivery pallet can be easily removed and installation work can be performed speedily.



Pipe size reduction
Use of R410A refrigerant allows for a pipe size reduction compared to the conventional system. This offers improvement in construction work and a reduction in piping costs.

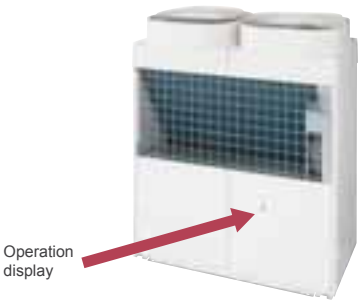
Slimming down of piping Ø28.6 → Ø22.2

In case of gas pipe for 10HP outdoor unit

Service & Maintenance

Operating display

Outdoor unit
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.



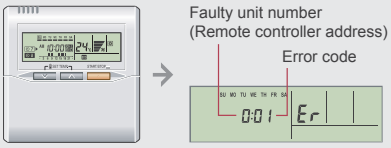
Indoor unit
The operation status of the indoor unit can be easily checked by operation indicator. In addition, when an error occurs, the error contents are displayed and repair work can be performed quickly.

Note: For duct type indoor units, an IR receiver unit is necessary.

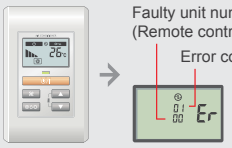
Error display with self-diagnosis function

When an error or abnormality occurred in the system, the indoor unit No. and error code at which the error occurred are displayed at the display section of the controller. (Except wireless remote controller)

Wired Remote Controller

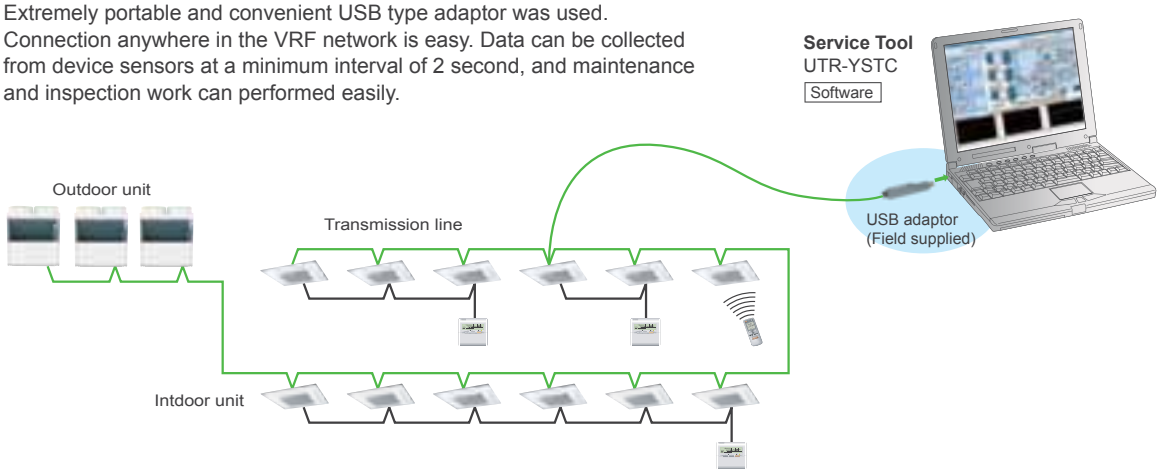


Simple Remote Controller



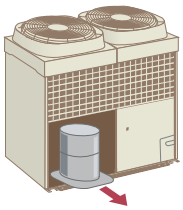
Improves maintenance and inspection mobility (Service Tool)

Extremely portable and convenient USB type adaptor was used. Connection anywhere in the VRF network is easy. Data can be collected from device sensors at a minimum interval of 2 second, and maintenance and inspection work can performed easily.



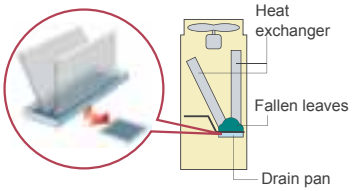
Easy replacement

Compressor can be moved by pull-out tray which simplifies inspection and replacement work. A pull-out plate ensures easy compressor replacement if necessary.



Drain pan cleaning is easy

Detachable drain pan simplifies removal of fallen leaves collected in the drain pan at the bottom of the heat exchanger



Outdoor units

Lineup and Combination

Capacity Lineup

Unit	HP	Capacity	Model name
Master units 	8	22.4kW	AJYA72LBTF
	10	28.0kW	AJYA90LBTF
	14	40.0kW	AJY126LBTF
Slave units 	8	22.4kW	AJYA72UBTF
	10	28.0kW	AJYA90UBTF
	14	40.0kW	AJY126UBTF

Combination

Unit	HP	Capacity (kW)	Master	Slave 1	Slave 2
	8	22.4	AJYA72LBTF	——	——
	10	28.0	AJYA90LBTF	——	——
	14	40.0	AJY126LBTF	——	——
	16	44.8	AJYA72LBTF	AJYA72UBTF	——
	18	50.4	AJYA90LBTF	AJYA72UBTF	——
	20	56.0	AJYA90LBTF	AJYA90UBTF	——
	22	62.4	AJY126LBTF	AJYA72UBTF	——
	24	68.0	AJY126LBTF	AJYA90UBTF	——
	28	72.8	AJY126LBTF	AJY126UBTF	——
	26	80.0	AJYA90LBTF	AJYA72UBTF	AJYA72UBTF
	30	84.0	AJYA90LBTF	AJYA90UBTF	AJYA90UBTF
	32	90.4	AJY126LBTF	AJYA90UBTF	AJYA72UBTF
	34	96.0	AJY126LBTF	AJYA90UBTF	AJYA90UBTF
	36	102	AJY126LBTF	AJY126UBTF	AJYA72UBTF
	38	108	AJY126LBTF	AJY126UBTF	AJYA90UBTF
	42	120	AJY126LBTF	AJY126UBTF	AJY126UBTF

Specifications

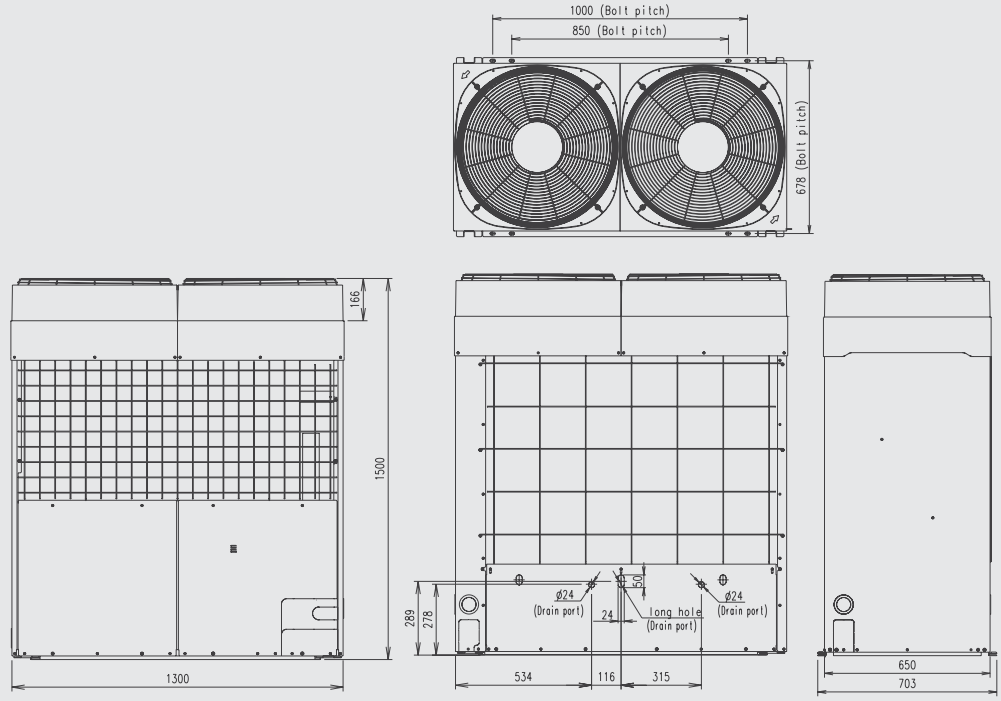
Rating Capacity range			HP	8	10	14	16		18		20		22	
Unit 1 Unit 2 Unit 3				AJYA72LBTF	AJYA90LBTF	AJY126LBTF	AJYA72LBTF AJYA72UBTF		AJYA90LBTF AJYA72UBTF		AJYA90LBTF AJYA90UBTF		AJY126LBTF AJYA72UBTF	
Maximum Connectable Indoor Unit				15	16	16	30		32		32		32	
Indoor unit connectable capacity	Cooling	kW		11.2-33.6	14.0-42.0	20.0-60.0	22.4-67.2		25.2-75.6		28.0-84.0		31.2-93.6	
Power source				3Phase 400V 50Hz										
Capacity	Cooling	kW		22.4	28.0	40.0	44.8		50.4		56.0		62.4	
	Heating			25.0	31.5	45.0	50.0		56.5		63.0		70.0	
Input power	Cooling	kW		7.00	8.75	13.3	14.0		15.8		17.5		20.3	
	Heating			6.76	8.51	13.2	13.5		15.3		17.0		20.0	
EER	Cooling	W/W		3.20	3.20	3.00	3.20		3.20		3.20		3.07	
COP	Heating			3.70	3.70	3.40	3.70		3.70		3.70		3.50	
Air flow rate	High	m^3/h		10700	10700	10800	10700 x 2		10700 x 2		10700 x 2		10800+10700	
Sound pressure level*2	Cooling	dB (A)		58	58	60	61		61		61		62	
	Heating			60	60	62	63		63		63		64	
Compressor motor output		kW		3.0 + 4.6	3.0 + 4.6	3.0 + 4.6 + 4.6	3.0 + 4.6 / 3.7 + 3.7		3.0 + 4.6 / 3.7 + 3.7		3.0 + 4.6 / 4.6 + 4.6		3.0 + 4.6 + 4.6 / 3.7 + 3.7	
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin		Blue fin		Blue fin		Blue fin	
Dimensions	Height	mm		1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
	Width	mm		1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300
	Depth	mm		650	650	650	650	650	650	650	650	650	650	650
Weight		kg		267	267	371	267 + 270		267 + 270		267 + 270		371 + 270	
Refrigerant charge		kg		11.8	11.8	11.8	11.8 + 11.8		11.8 + 11.8		11.8 + 11.8		11.8 + 11.8	
Connection pipe diameter	Liquid	mm		ø12.70	ø12.70	ø12.70	ø12.70		ø15.88		ø15.88		ø15.88	
	Gas			ø22.22	ø22.22	ø28.58	ø28.58		ø28.58		ø28.58		ø34.92	
Operation range	Cooling	˚C		-15 to 43	-15 to 43	-15 to 43	-5 to 43		-5 to 43		-5 to 43		-5 to 43	
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21		-20 to 21		-20 to 21		-20 to 21	

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

Dimensions

Master unit and slave unit are same dimensions.

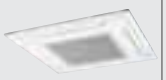
(Unit : mm)



24	26	28	30	32	34	36	38	42
AJY126LBTF AJYA90UBTF	AJYA90LBTF AJYA72UBTF AJYA72UBTF	AJY126LBTF AJY126UBTF	AJYA90LBTF AJYA90UBTF AJYA90UBTF	AJY126LBTF AJYA90UBTF AJYA72UBTF	AJY126LBTF AJYA90UBTF AJYA90UBTF	AJY126LBTF AJY126UBTF AJYA72UBTF	AJY126LBTF AJY126UBTF AJYA90UBTF	AJY126LBTF AJY126UBTF AJY126UBTF
32	32	32	48	48	48	48	48	48
34.0-102	36.4-109	40.0-120	42.0-126	45.2-135	48.0-144	51.0-153	54.0-162	60.0-180
3Phase 400V 50Hz								
68.0	72.8	80.0	84.0	90.4	96.0	102	108	120
76.5	81.5	90.0	94.5	102	108	115	122	135
22.1	22.8	26.7	26.3	29.1	30.8	33.7	35.4	40.0
21.7	22.0	26.5	25.5	28.5	30.3	33.2	35.0	39.7
3.08	3.20	3.00	3.20	3.11	3.11	3.04	3.05	3.00
3.52	3.70	3.40	3.70	3.56	3.57	3.27	3.47	3.40
10800+10700	10700 x 3	10800 x 2	10700 x 3	10800+10700 x 2	10800+10700 x 2	10800 x 2+10700	10800 x 2+10700	10800 x 3
62	62	62	62	63	63	63	64	64
64	64	64	64	65	65	65	66	66
3.0 + 4.6 +4.6 / 4.6 + 4.6	3.0 + 4.6 / 3.7 + 3.7 / 3.7 + 3.7	3.0 + 4.6 + 4.6 / 4.6 + 4.6 + 4.6	3.0 + 4.6 / 4.6 + 4.6 / 4.6 + 4.6	3.0 + 4.6 +4.6 / 4.6 + 4.6 / 3.7 + 3.7	3.0 + 4.6 + 4.6 / 4.6 + 4.6 / 4.6 + 4.6	3.0 + 4.6 + 4.6 / 4.6 + 4.6 + 4.6 / 3.7 + 3.7	3.0 + 4.6 + 4.6 / 4.6 + 4.6 + 4.6 / 4.6 + 4.6	3.0 + 4.6 + 4.6 / 4.6 + 4.6 + 4.6 / 4.6 + 4.6 + 4.6
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1500 1500	1500 1500 1500	1500 1500	1500 1500 1500	1500 1500 1500	1500 1500 1500	1500 1500 1500	1500 1500 1500	1500 1500 1500
1300 1300	1300 1300 1300	1300 1300	1300 1300 1300	1300 1300 1300	1300 1300 1300	1300 1300 1300	1300 1300 1300	1300 1300 1300
650 650	650 650 650	650 650	650 650 650	650 650 650	650 650 650	650 650 650	650 650 650	650 650 650
371 + 270	267 + 270 + 270	371 + 374	267 + 270 + 270	371 + 270 + 270	371 + 270 + 270	371 + 374 + 270	371 + 374 + 270	371 + 374 + 374
11.8 + 11.8	11.8 + 11.8 + 11.8	11.8 + 11.8	11.8 + 11.8 + 11.8	11.8 + 11.8 + 11.8	11.8 + 11.8 + 11.8	11.8 + 11.8 + 11.8	11.8 + 11.8 + 11.8	11.8 + 11.8 + 11.8
ø15.88	ø15.88	ø15.88	ø19.05	ø19.05	ø19.05	ø19.05	ø19.05	ø19.05
ø34.92	ø34.92	ø34.92	ø34.92	ø34.92	ø34.92	ø41.27	ø41.27	ø41.27
-5 to 43	-5 to 43	-5 to 43	-5 to 43	-5 to 43	-5 to 43	-5 to 43	-5 to 43	-5 to 43
-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

AIRSTAGE™ S & V

Indoor units lineup

Capacity range (kW)	2.20	2.20	3.60	4.05	5.30	5.70	
Model code	7	9	12	14	18	20	
Compact Cassette	 AUXB07LATF	 AUXB09LATF	 AUXB12LATF	 AUXB14LATF	 AUXB18LATF		
Slim Type **Cassette**						 AUYA20LATF	
Silent model **Compact Duct**	 ARXB07LALF	 ARXB09LALF	 ARXB12LALF	 ARXB14LALF	 ARXB18LALF		
Silent model **Low Static Pressure Duct**							
Duct							
High Static Pressure Duct							
Floor / Ceiling			 ABYA12LATF	 ABYA14LATF	 ABYA18LATF		
Ceiling							
Comfort model **Compact Wall Mounted*2**	 ASYE07LACF	 ASYE09LACF	 ASYE12LACF	 ASYE14LACF			
With this model, connection of EV kit is necessary.							
Wall Mounted					 ASYA18LATF		
Ceiling Wall	 AWYA07LATF	 AWYA09LATF	 AWYA12LATF	 AWYA14LATF	 AWYA18LATF		

*1:ARXC90 model can not be connected to S series outdoor unit.
*2:Compact wall mounted model can not be connected S series Heat Recovery outdoor unit.

11 Types, 50Models, Capacity range from 2.2kW to 25.4kW
Indoor units of S series and V series are compatible

	6.80	7.05	8.80	10.5	12.7	14.1	17.0	25.4
	24	25	30	36	45	54	60	90
		Slim Type  AUYA25LATF	Slim Type  AUYA30LATF	 AUYA36LATF	 AUYA45LATF	 AUYA54LATF		
		 ARXB25LATF	 ARXB30LATF	 ARXB36LATF	 ARXB45LATF			
		 ARXA25LATF	 ARXA30LATF	 ARXA36LATF	 ARXA45LATF			
				 ARXC36LATF	 ARXC45LATF		 ARXC60LATF	 ARXC90LATF*1
	 ABYA24LATF							
			 ABYA30LATF	 ABYA36LATF	 ABYA45LATF	 ABYA54LATF		
	 ASYA24LATF		 ASYA30LATF					
	 AWYA24LATF		 AWYA30LATF					

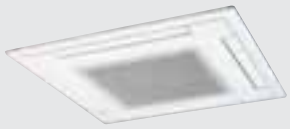
Indoor units specifications

Compact Cassette

Model name			AUXB07LATF	AUXB09LATF	AUXB12LATF	AUXB14LATF	AUXB18LATF
Power source			230V~ , 50Hz				
Capacity	Cooling	kW	2.20	2.80	3.60	4.00	5.00
	Heating		2.50	3.20	4.10	4.50	5.45
Input power		W	28	28	52	52	50
Airflow rate	High	m^3/h	530	530	580	580	640
	Med		480	480	520	520	540
	Low		410	410	460	460	470
Sound pressure level	High	dB(A)	38	38	41	41	44
	Med		35	35	37	37	38
	Low		31	31	34	34	35
Dimensions (H x W x D)		mm	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		kg	18	18	18	18	18
Connection pipe diameter	Liquid (Flare)	mm	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	kW	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		W	104	124	140	175	190	219
Airflow rate	High	m^3/h	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	dB(A)	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)	mm	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		kg	34	34	34	40	40	40
Connection pipe diameter	Liquid (Flare)	mm	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	kW	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		W	31.2	32.6	55.0	63.0	103.0	155	171	216	246	161	172	220	312
Airflow rate	High	m^3/h	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 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	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	ø9.52
	Gas (Flare)		ø12.7	ø12.7	ø12.7	ø12.7	ø15.88	ø15.88	ø15.88	ø19.05	ø19.05	ø15.88	ø15.88	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]; 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	ARXC90LATF	
Power source			230V~ , 50Hz			3Phase 400V, 50Hz	230V~ , 50Hz
Capacity	Cooling	kW	10.5	12.7	17.0	25.4	
	Heating		12.7	14.3	18.2	29.5	
Input power		W	405	427	427	970	
Airflow rate	High	m^3/h	2,500	3,500	3,500	3,950	
	Med		1,950	3,000	3,000	-	
	Low		1,450	2,460	2,460	-	
Static pressure range		Pa	100 to 200	100 to 250	100 to 250	100 to 300	
Sound pressure level	High	dB(A)	45	49	49	50	
	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	400 x 1,050 x 500	450 x 1,550 x 700	
Weight		kg	45	45	50	82	
Connection pipe diameter	Liquid (Flare)	mm	ø9.52(Flare)	ø9.52 (Flare)	ø9.52(Flare)	ø12.7 (Brazing)	
	Gas (Flare)		ø19.05 (Flare)	ø19.05 (Flare)	ø19.05 (Flare)	ø22.22(Brazing)	

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).
Voltage : 400 [V]; Standard static pressure : 200 Pa (ARXC90LATF).

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^3/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^3/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].

Compact Wall Mounted

Model name			ASYE07LACF	ASYE09LACF	ASYE12LACF	ASYE14LACF
Power source			230V~ , 50Hz			
Capacity	Cooling	kW	2.20	2.80	3.60	4.00
	Heating		2.50	3.20	4.10	4.80
Input power		W	13	13	17	19
Airflow rate	High	m³/h	490	490	560	600
	Med		450	450	480	490
	Low		370	370	420	420
Sound pressure level	High	dB(A)	34	34	38	39
	Med		32	32	34	35
	Low		26	26	30	30
Dimensions (H x W x D)		mm	275 x 790 x 215	275 x 790 x 215	275 x 790 x 215	275 x 790 x 215
Weight		kg	9	9	9	9
Connection pipe diameter	Liquid (Flare)	mm	ø6.35	ø6.35	ø6.35	ø6.35
	Gas (Flare)		ø12.7	ø12.7	ø12.7	ø12.7
EV Kit			UTR-EV09XA (Option)		UTR-EV14XA (Option)	

Wall Mounted

Model name			ASYA18LATF	ASYA24LATF	ASYA30LATF
Power source			230V~ , 50Hz		
Capacity	Cooling	kW	5.40	6.90	8.00
	Heating		5.60	7.80	8.80
Input power		W	38	50	60
Airflow rate	High	m³/h	800	970	1,040
	Med		650	870	910
	Low		550	750	730
Sound pressure level	High	dB(A)	41	45	47.5
	Med		36.5	41	44
	Low		33	37	39.5
Dimensions (H x W x D)		mm	320 x 1,120 x 220	320 x 1,120 x 220	320 x 1,120 x 220
Weight		kg	16	16	16
Connection pipe diameter	Liquid (Flare)	mm	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	kW	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		W	16	19	20	21	30	40	50
Airflow rate	High	m³/h	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	dB(A)	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)		mm	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		kg	16	16	16	16	16	16	16
Connection pipe diameter	Liquid (Flare)	mm	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 NEW

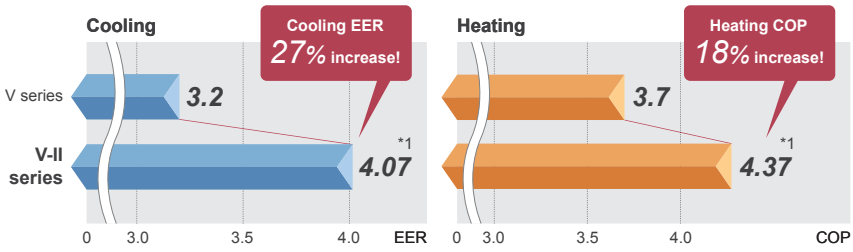
14, 16HP NEW

High Efficiency

Significantly improved EER/COP

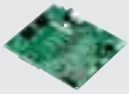
Significantly greater efficiency is realized by the use of a DC twin rotary compressor, inverter technology, and large heat exchanger.

* "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.



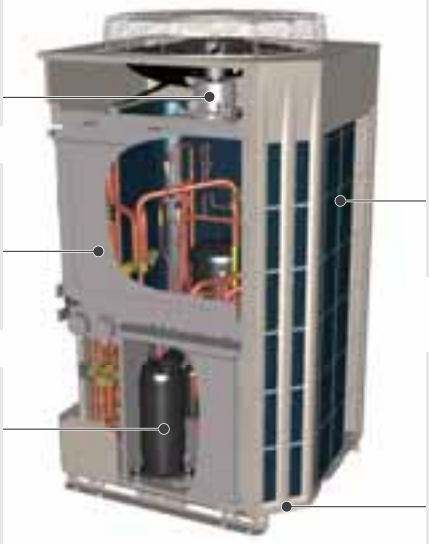
Energy saving technology that boosted operation efficiency

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



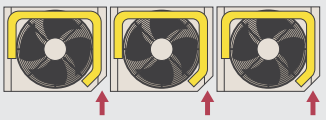
Sine-wave DC inverter control:
High efficiency operation is realized by using a sine wave DC inverter control.

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.



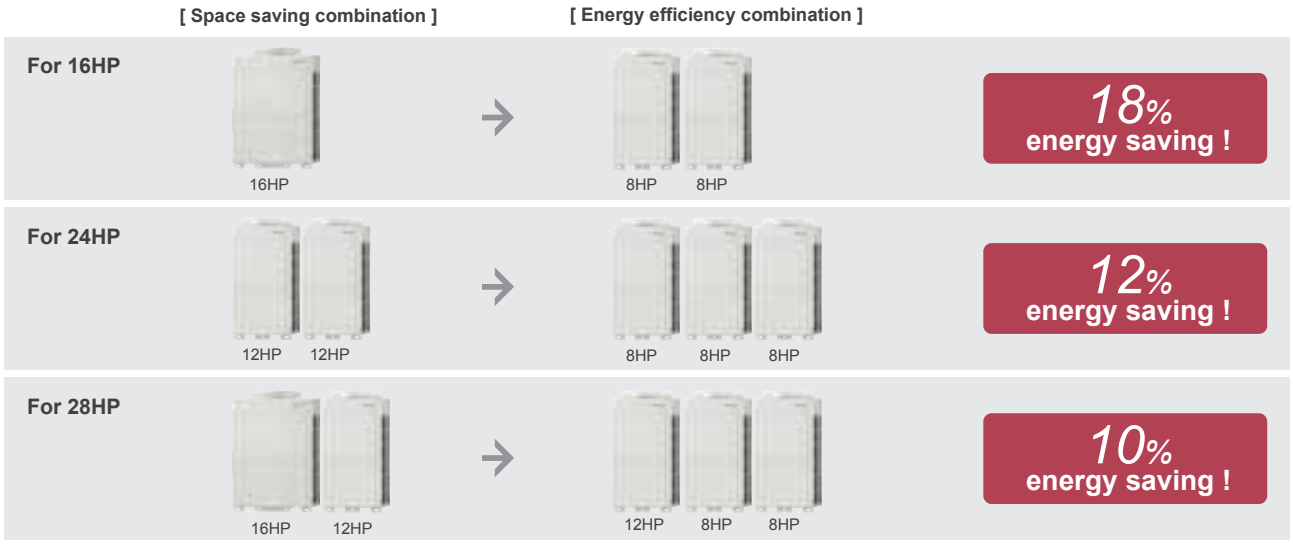
4-face heat exchanger: Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

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



Energy Efficiency Combination

Choice of space saving or energy efficiency combinations

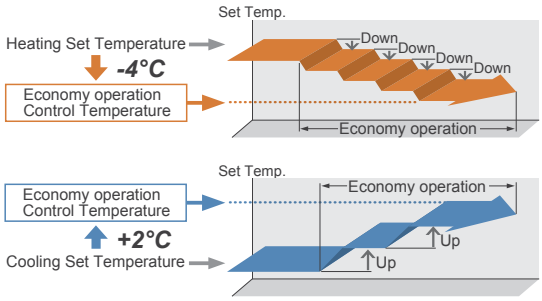


(Comparison of Average COP)

Various Energy Saving Features

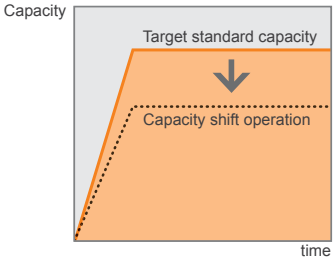
Economy operation

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



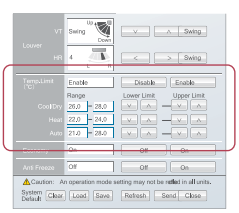
Capacity shift operation

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

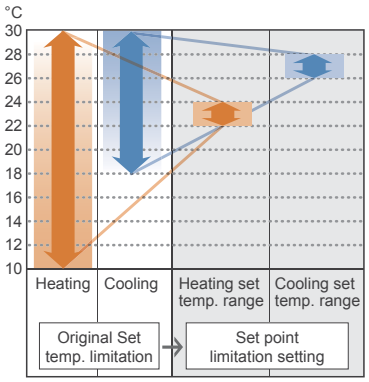


Room temperature set point limitation

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



Operation setting (System Controller)



Auto-off timer

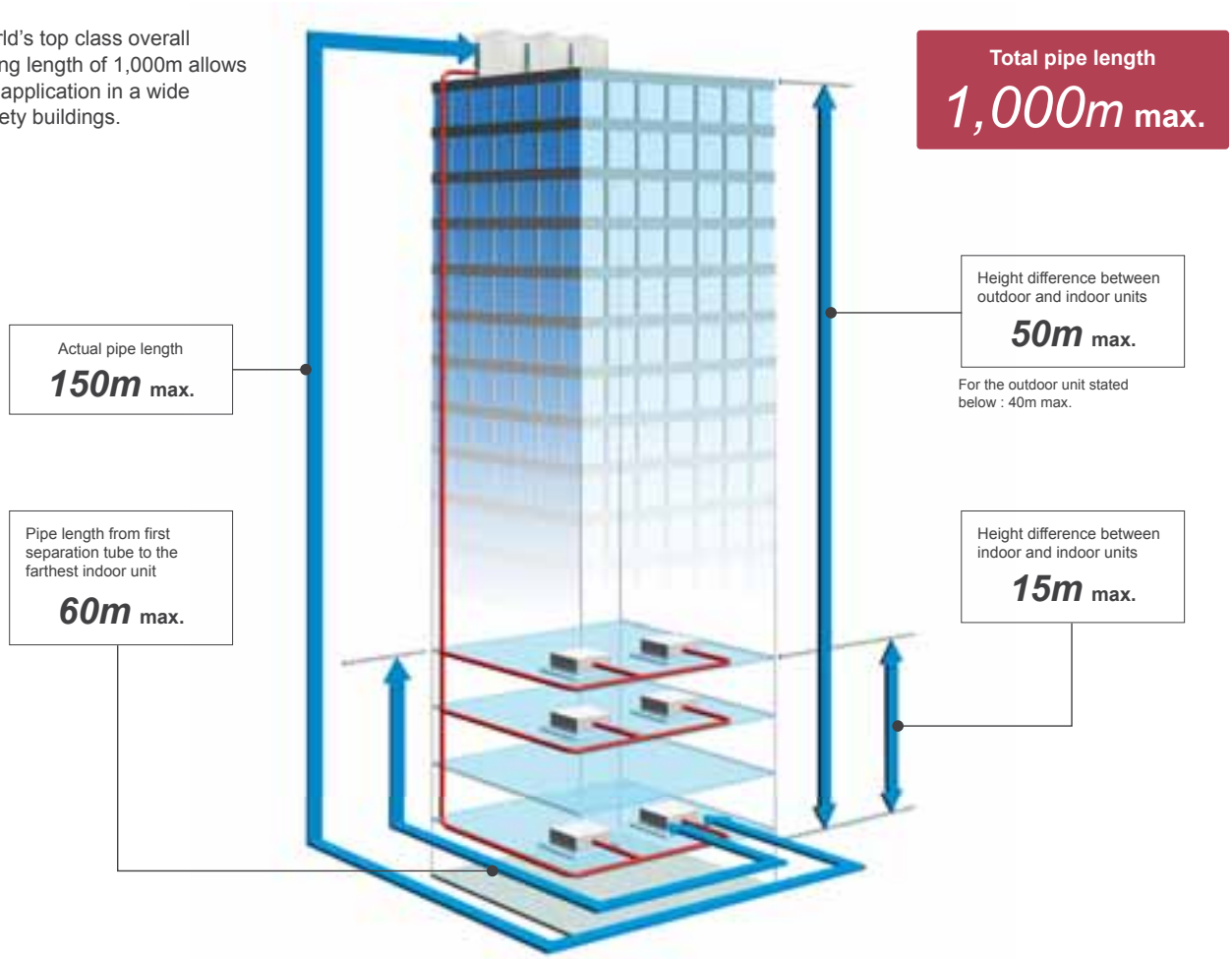
Each remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents wasteful operation. (NB Except simple remote controller)

AIRSTAGE™ V-II

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.

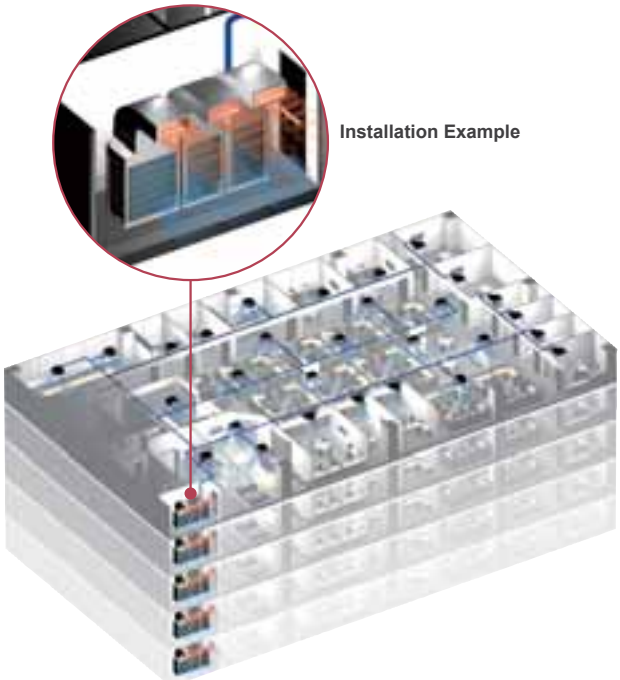
Powerful discharge with an external static pressure of 80Pa.

80Pa as standard

Previous model

V-II series

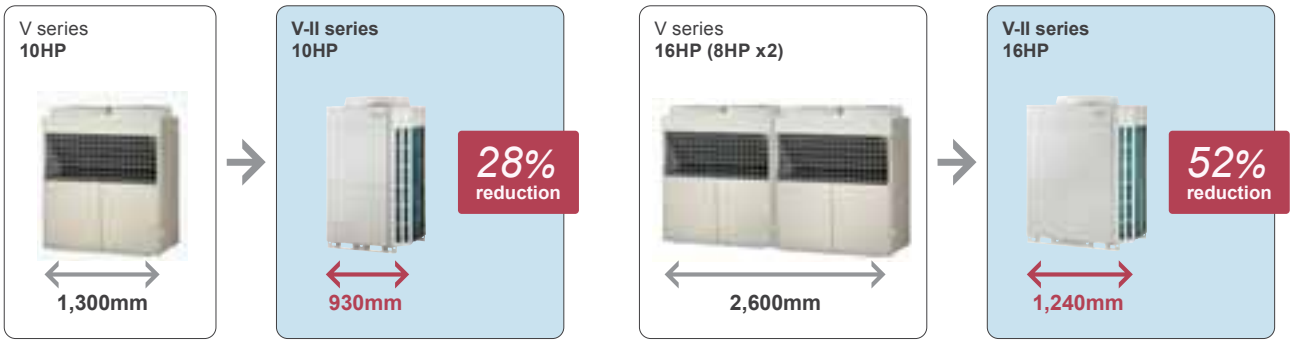
Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa. This is approximately 2.6 times greater than the previous model.

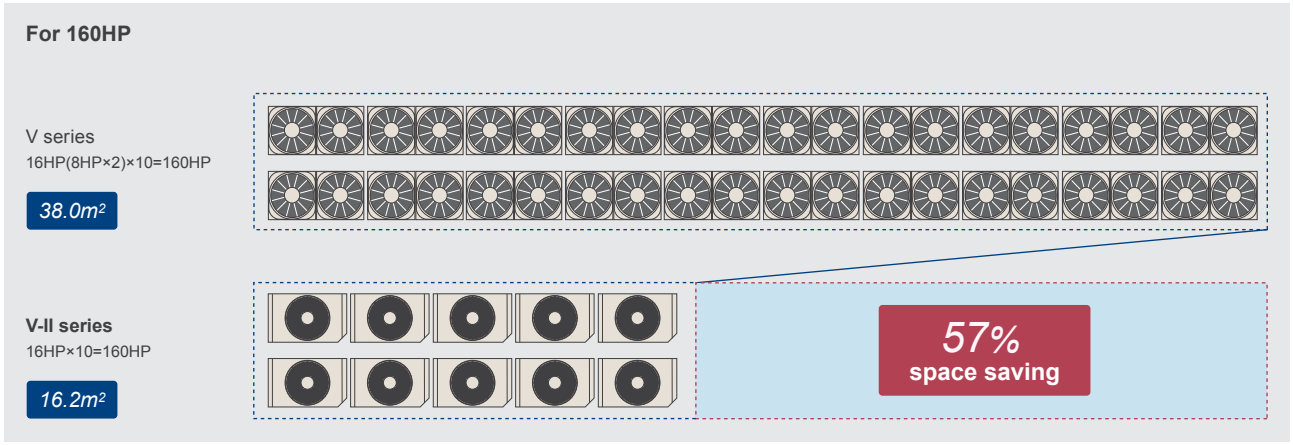


Installation Example

Space saving and compact size

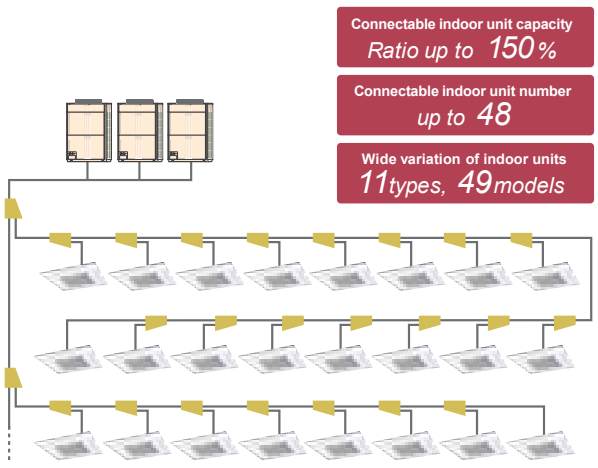
Compact size has been achieved by significantly reducing the width of the outdoor units compared to previous models.





High capacity connection

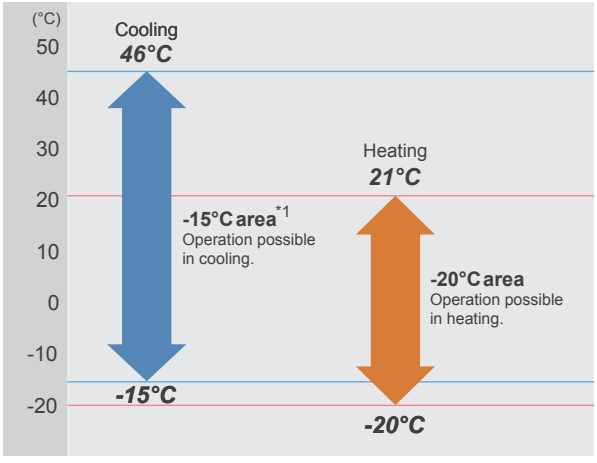
Various combination from 8HP to 48HP with 2HP increments. 11 types, 49 models of indoor units can be selected ranging from 2.2kW to 25kW in capacity. A maximum of 150% indoor unit connectable capacity.



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



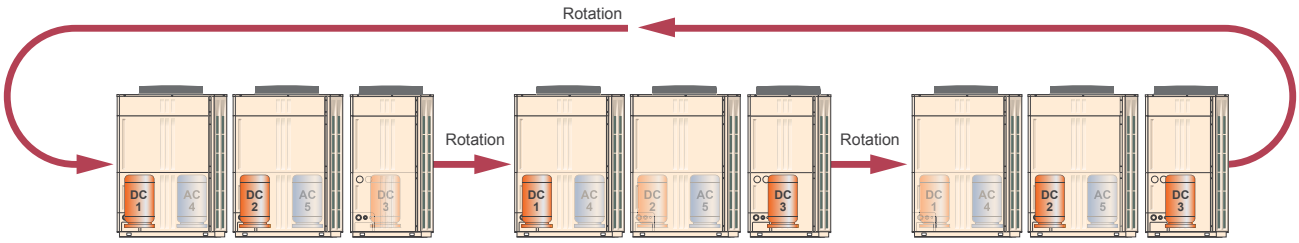
*1 Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

AIRSTAGE™ V-II

High Reliability

Longer lasting units

Outdoor unit operation rotation
The compressor starting order is rotated so that the running time is shared.

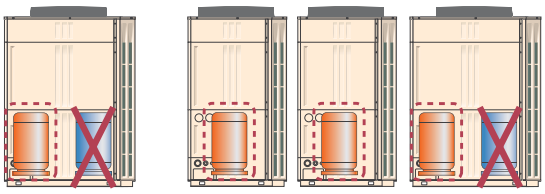


Note: The inverter compressors start in priority.Rotate operation is alternated by the start / stop timing of the compressors

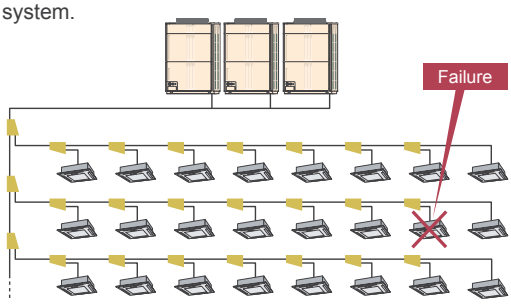
Continuous operation

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.

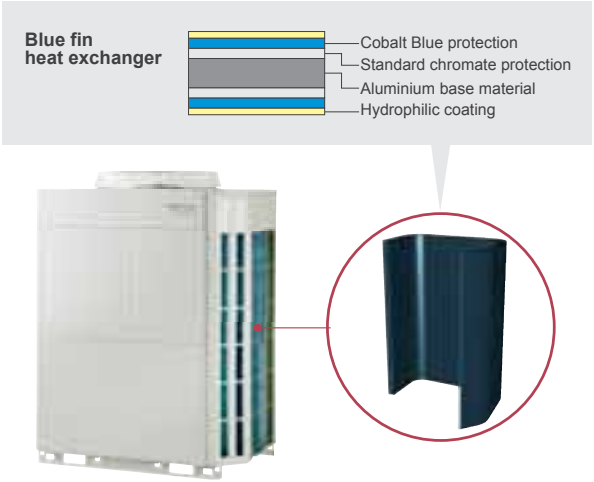


Indoor unit continuous operation
Each indoor unit is controlled individually on the system network. This allows all indoor units to continue to operate unaffected even if an error should occur at any indoor unit's on the VRF system.



Adoption of blue fin heat exchanger

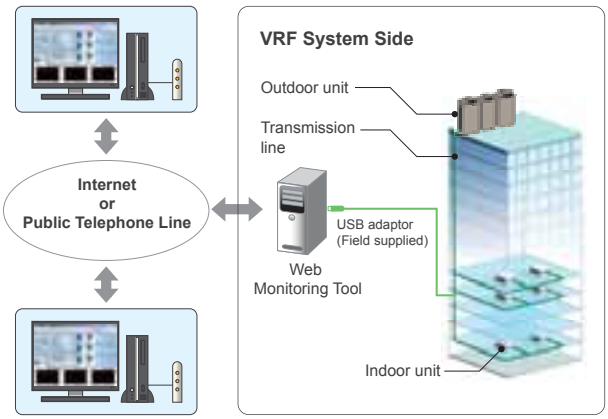
Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.



Remote monitoring

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

Monitoring Side



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

Easy Installation

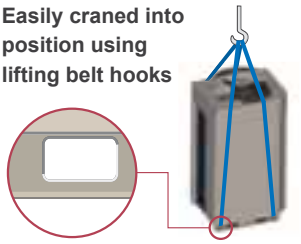
Easily transported

Light weight

20% weight reduction (Than Previous model)

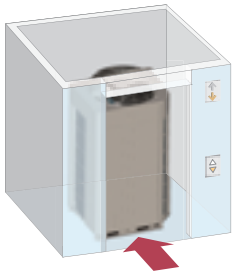
Note:
In the case of 14HP

Easily craned into position using lifting belt hooks



Design of outdoor unit allows for lifting straps to be used

Can be transported in a small elevator

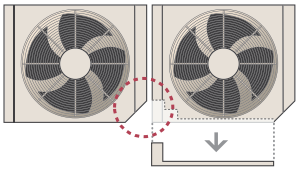


Transporting by forklift

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

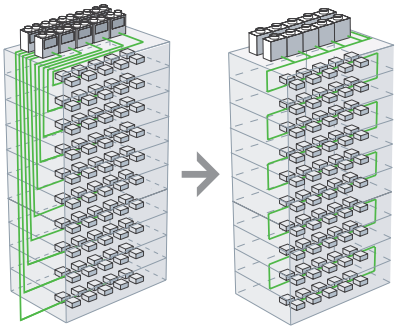


Simple signal line connection

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

Up to maximum length 3,600m

V-II series

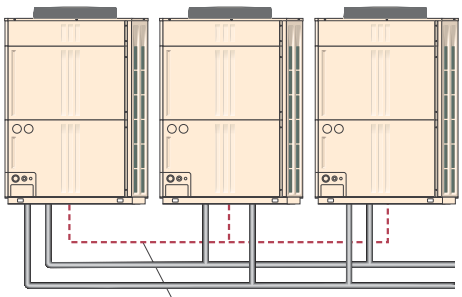


Other wiring method | Simple wiring method

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

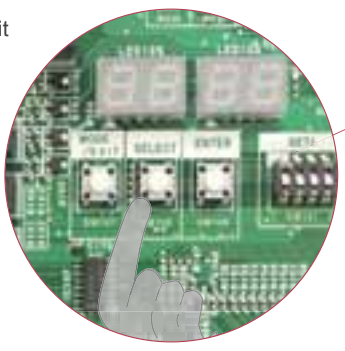
Easy piping connection

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

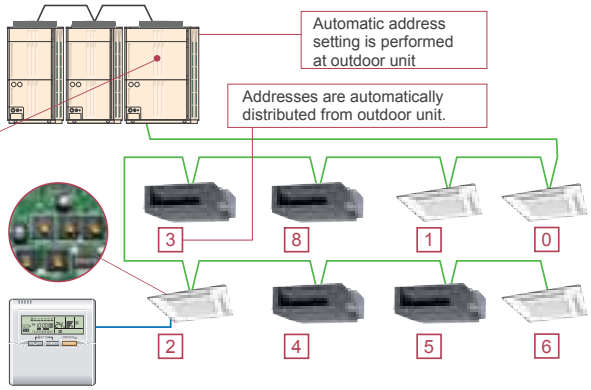


Automatic address setting

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



Press the pushbutton switch of outdoor unit.



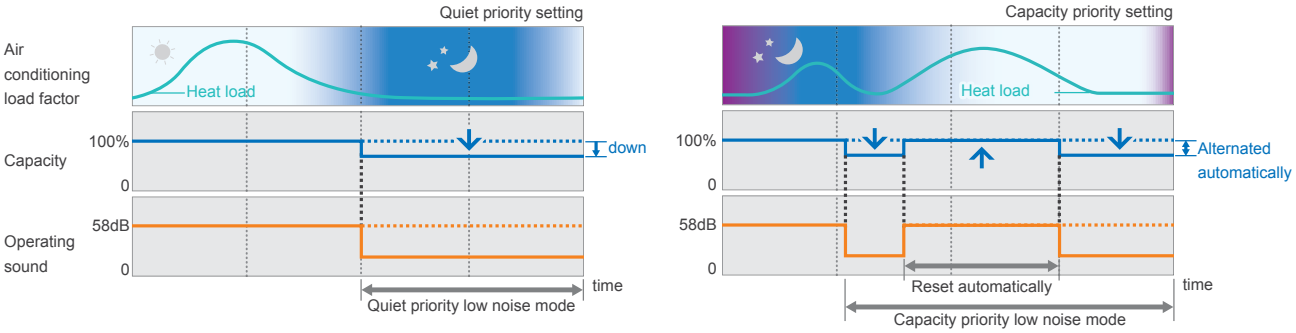
Manual address setting from indoor unit and remote controller is also possible.

AIRSTAGE™ V-II

Comfort and Convenience

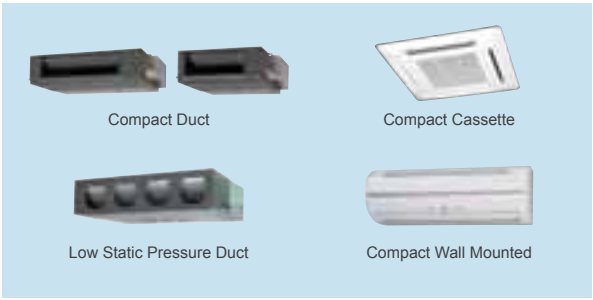
Quiet operation

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

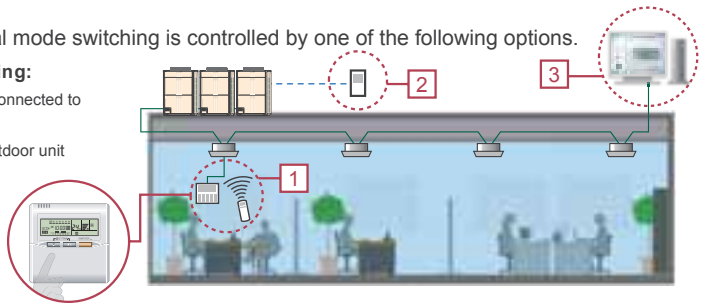
Auto changeover setting allows for the product to easily switch between Cooling and heating modes regardless of the operation mode of other indoor units. This can be done via specific indoor unit remote controller and / or by an external input control. This ensures comfortable operation all year round.

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

1 selected from the following:

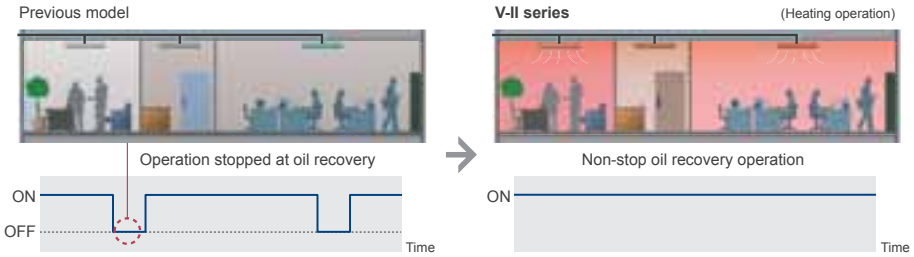
1. Various remote controllers connected to indoor unit
2. External input terminal of outdoor unit
3. System controller

Switching to cooling and heating mode by specific remote controller in the main room, etc.



Non-stop oil recovery operation

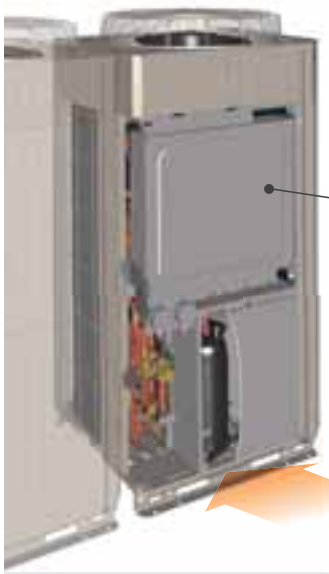
A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



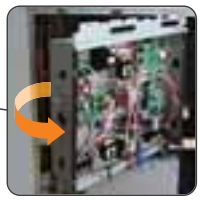
Easy Service & Maintenance

Design for easy service and maintenance

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



Consolidated electrical components make maintenance easy



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

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

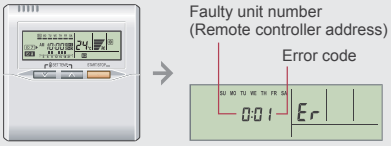
Easy-to-read 7-segment LED display which explains operational and trouble status

Split front panel allows for maintenance from top or bottom of the outdoor unit

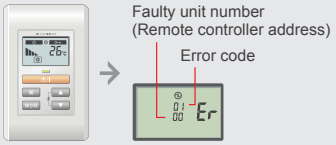
Error status can be checked easily via the indoor unit wired controller

An error code is displayed on a liquid crystal screen.

Wired Remote Controller



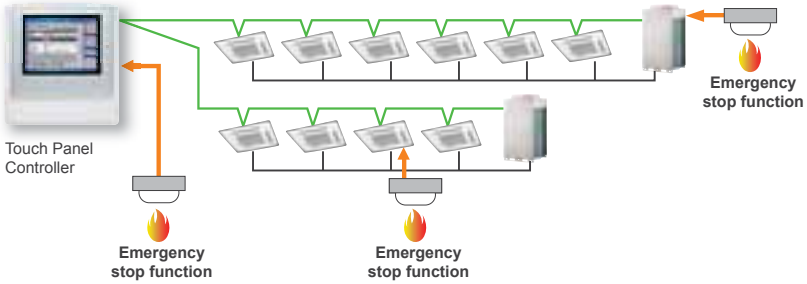
Simple Remote Controller



Emergency stop function

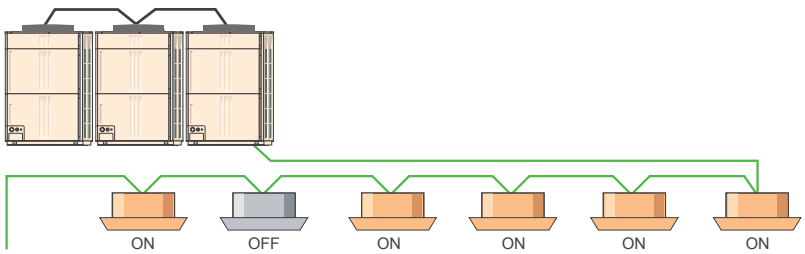
Emergency alarm can be received by indoor, outdoor units or Touch Panel Controller when they received it, all units will be stopped.

Note:
In case of received Emergency alarm byIndoor/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.



AIRSTAGE™ V-II

Outdoor units lineup NEW

•Combinations other than the followings are not recommended.

Space saving combination

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

Energy efficiency combination

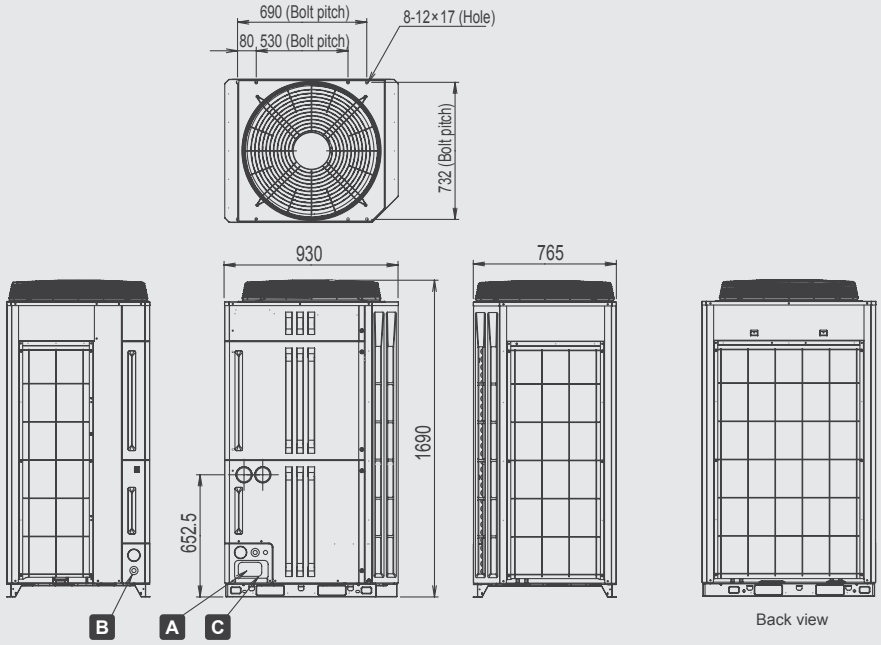
44.8kW (16HP)	62.4kW (22HP)	67.2kW (24HP)	72.8kW (26HP)	78.3kW (28HP)
 AJY144LALHH UNIT : AJYA72/A72LALH	 AJY198LALHH UNIT : AJY126/A72LALH	 AJY216LALHH UNIT : AJYA72/A72/A72LALH	 AJY234LALHH UNIT : AJYA90/A72/A72LALH	 AJY252LALHH UNIT : AJY108/A72/A72LALH
84.8kW (30HP)	**89.8kW (32HP)**	**95.9kW (34HP)**	**102.4kW (36HP)**	**113.5kW (40HP)**
 AJY270LALHH UNIT : AJY126/A72/A72LALH	 AJY288LALHH UNIT : AJY108/108/A72LALH	 AJY306LALHH UNIT : AJY126/108/A72LALH	 AJY324LALHH UNIT : AJY126/126/A72LALH	 AJY360LALHH UNIT : AJY126/126/A108LALH
120.0kW (42HP)	**125.0kW (44HP)**			
 AJY378LALHH UNIT : AJY126/126/126LALH	 AJY396LALHH UNIT : AJY144/126/126LALH			

Outdoor units dimensions

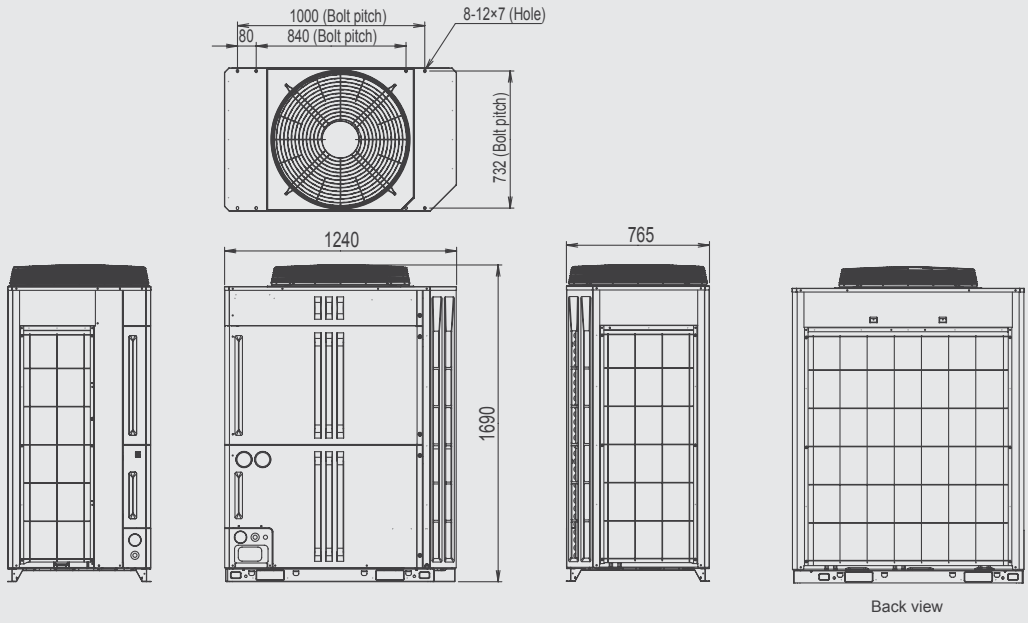
Dimensions

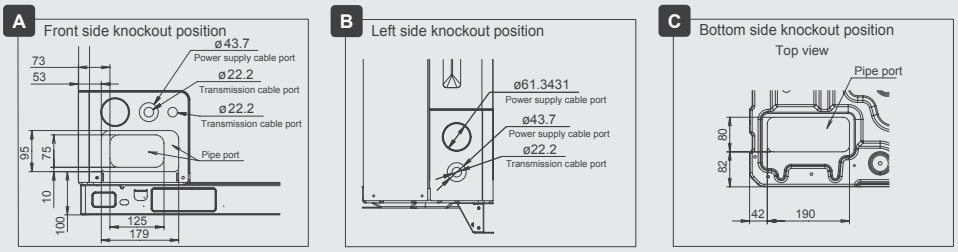
(Unit : mm)

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



14,16HP: AJY126LALH / AJY144LALH





AIRSTAGE™ V-II

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 Unit 2 Unit 3			AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJYA90LALH AJYA72LALH	AJY108LALH AJYA72LALH	AJY108LALH AJYA90LALH	AJY108LALH AJY108LALH
Maximum Connectable Indoor Unit*1			15	16	17	21	24	32	32	32	35
Indoor unit connectable capacity	Cooling	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.4-67.2	25.2-75.6	28.0-83.9	30.8-92.3	33.5-100.5
Power source			3-phase 4 wire, 400 V, 50Hz								
Capacity	Cooling	kW	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	kW	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	W/W	4.07	3.62	3.48	3.47	3.18	3.81	3.69	3.54	3.48
COP	Heating		4.37	4.02	4.04	3.93	3.97	4.17	4.17	4.03	4.04
Air flow rate	High	m^3/h	11,100	11,100	11,100	13,000	13,000	11,100 x 2	11,100 x 2	11,100 x 2	11,100 x 2
Sound pressure level*2	Cooling	dB (A)	56	58	58	60	61	60	60	61	61
	Heating		58	59	60	61	61	62	62	63	63
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80
Compressor motor output		kW	3.9	3.9	3.9 + 4.5	3.9 + 4.5	3.9 + 4.5	3.9 x 2	3.9 x 2 + 4.5	3.9 x 2 + 4.5	3.9 x 2 + 4.5 x 2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	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	930 x 2
	Depth	mm	765	765	765	765	765	765	765	765	765
Weight		kg	220	220	275	296	296	220 + 220	275 + 220	275 + 220	275 + 275
Refrigerant charge		kg	11.2	11.2	11.8	11.8	11.8	11.2 x 2	11.8 + 11.2	11.8 + 11.2	11.8 x 2
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Gas		22.20	22.20	28.58	28.58	28.58	28.58	28.58	34.92	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	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-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 Unit 2 Unit 3			AJYA72LALH AJYA72LALH	AJY126LALH AJYA72LALH	AJYA72LALH AJYA72LALH AJYA72LALH	AJYA90LALH AJYA72LALH AJYA72LALH	AJY108LALH AJYA72LALH AJYA72LALH	AJY126LALH AJYA72LALH AJYA72LALH
Maximum Connectable Indoor Unit*1			30	33	36	39	42	45
Indoor unit connectable capacity	Cooling	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3-phase 4 wire, 400 V, 50Hz					
Capacity	Cooling	kW	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	kW	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	W/W	4.07	3.66	4.07	3.88	3.79	3.76
COP	Heating		4.37	4.08	4.37	4.23	4.22	4.15
Air flow rate	High	m^3/h	11,100 x 2	13,000 + 11,100	11,100 x 3	11,100 x 3	11,100 x 3	13,000 + 11,000 x 2
Sound pressure level*2	Cooling	dB (A)	59	61	61	62	62	63
	Heating		59	62	61	62	63	63
Maximum external static pressure		Pa	80	80	80	80	80	80
Compressor motor output		kW	3.9 x 2	3.9 x 2 + 4.5	3.9 x 3	3.9 x 3	3.9 x 3 + 4.5	3.9 x 3 + 4.5
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width	mm	930 x 2	930 + 1,240	930 x 3	930 x 3	930 x 3	930 x 2 + 1,240
	Depth	mm	765	765	765	765	765	765
Weight		kg	220 + 220	296 + 220	220 + 220 + 220	220 + 220 + 220	275 + 220 + 220	296 + 220 + 220
Refrigerant charge		kg	11.2 x 2	11.8 + 11.2	11.2 x 3	11.2 x 3	11.8 + 11.2 x 2	11.8 + 11.2 x 2
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	˚C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
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 AJY108LALH	AJY144LALH AJY108LALH	AJY144LALH AJY126LALH	AJY144LALH AJY144LALH	AJY108LALH AJY108LALH AJYA90LALH	AJY108LALH AJY108LALH AJY108LALH	AJY126LALH AJY108LALH AJY108LALH	AJY144LALH AJY108LALH AJY108LALH	AJY144LALH AJY126LALH AJY108LALH	AJY144LALH AJY144LALH AJY108LALH	AJY144LALH AJY144LALH AJY126LALH	AJY144LALH AJY144LALH AJY144LALH
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 × 2	13,000 + 11,100 × 2	13,000 × 2 + 11,100	13,000 × 2 + 11,100	13,000 x 3	13,000 x 3
62	63	64	64	63	63	64	64	65	65	65	66
64	64	64	64	64	65	65	65	65	65	66	66
80	80	80	80	80	80	80	80	80	80	80	80
3.9 x 2 + 4.5 x 2	3.9 x 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

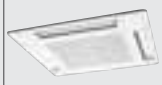
32	34	36	40	42	44
					
AJY288LALHH	**AJY306LALHH**	**AJY324LALHH**	**AJY360LALHH**	**AJY378LALHH**	**AJY396LALHH**
AJY108LALH AJY108LALH AJYA72LALH	AJY126LALH AJY108LALH AJYA72LALH	AJY126LALH AJY126LALH AJYA72LALH	AJY126LALH AJY126LALH AJYA108LALH	AJY126LALH AJY126LALH AJY126LALH	AJY144LALH AJY126LALH 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 × 3 + 4.5 × 2	3.9 x 3 + 4.5 x 2	3.9 x 3 + 4.5 x 2	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3	3.9 x 3 + 4.5 x 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690
930 × 3	930 x 2 + 1,240	930 + 1,240 x 2	930 + 1,240 x 2	1,240 x 3	1,240 x 3
765	765	765	765	765	765
275 + 275 + 220	296 + 275 + 220	296 + 296 + 220	296 + 296 + 275	296 + 296 + 296	296 + 296 + 296
11.8 × 2 + 11.2	11.8 x 2 + 11.2	11.8 x 2 + 11.2	11.8 x 3	11.8 x 3	11.8 x 3
19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

*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.

AIRSTAGE™ V-II

Indoor units lineup NEW

Capacity range (kW)	2.20	2.80	3.60	4.50	5.60	
Model code	7	9	12	14	18	
Compact Cassette	 AUXB07LALH	 AUXB09LALH	 AUXB12LALH	 AUXB14LALH	 AUXB18LALH	
Cassette					 AUXD18LALH	
Compact Duct	 ARXB07LALH	 ARXB09LALH	 ARXB12LALH	 ARXB14LALH	 ARXB18LALH	
Low Static Pressure Duct						
Duct						
High Static Pressure Duct						
Floor / Ceiling			 ABYA12LATH	 ABYA14LATH	 ABYA18LATH	
Ceiling						
Compact Wall Mounted (EEV internal)	 ASYA07LACH	 ASYA09LACH	 ASYA12LACH	 ASYA14LACH		
Compact Wall Mounted (EEV external)	 ASYE07LACH	 ASYE09LACH	 ASYE12LACH	 ASYE14LACH	With this model, connection of EV kit is necessary.	
Wall Mounted				 ASYA18LATH	 ASYA24LATH	

	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			
	 ARXB24LATH	 ARXB30LATH	 ARXB36LATH	 ARXB45LATH				
	 ARXA24LATH	 ARXA30LATH	 ARXA36LATH	 ARXA45LATH				
			 ARXC36LATH	 ARXC45LATH		 ARXC60LATH	 ARXC72LATH	 ARXC90LATH
	 ABYA24LATH							
		 ABYA30LATH	 ABYA36LATH	 ABYA45LATH	 ABYA54LATH			
	 ASYA30LATH							

AIRSTAGE™ V-II

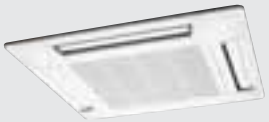
Indoor units specifications

Compact Cassette

Model name				AUXB07LALH	AUXB09LALH	AUXB12LALH	AUXB14LALH	AUXB18LALH	AUXB24LALH
Power source				230V~ , 50Hz					
Capacity		Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
		Heating		2.8	3.2	4.1	5.0	6.3	8.0
Input power			W	25	25	29	35	36	84
Airflow rate		High	m^3/h	540	550	600	680	710	1,030
		Med		450	450	530	590	580	830
		Low		350	350	390	390	400	450
Sound pressure level		High	dB(A)	34	35	37	38	41	50
		Med		30	30	34	34	35	44
		Low		25	25	27	27	27	30
Dimensions (H x W x D)			mm	245 x 570 x 570					
Weight			kg	15				17	
Connection pipe diameter		Liquid (Flare)	mm	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	kW	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			W	39	46	59	80	99	119
Airflow rate		High	m^3/h	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	1,000	1,000	1,000	1,000
Sound pressure level		High	dB(A)	36	38	40	44	46	47
		Med		30	33	38	38	39	39
		Low		29	29	31	31	31	31
Dimensions (H x W x D)			mm	246 x 840 x 840		288 x 840 x 840			
Weight			kg	23		27			
Connection pipe diameter		Liquid (Flare)	mm	ø9.52					
		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	kW	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	4.1	5.0	6.3	8.0	10.0	12.5	14.0	8.0	10.0	12.5	14.0
Input power		W	46	55	63	90	96	145	198	253	338	190	188	312	312
Airflow rate	High	m^3/h	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		Pa	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	dB(A)	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)		mm	217 x 663 x 595		217 x 953 x 595			270x1,135x700				270x1,135x700			
Weight		kg	18		25			43	45			43	45		
Connection pipe diameter	Liquid (Flare)	mm	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.)			

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.

High Static Pressure Duct

Model name			ARXC36LATH	ARXC45LATH	ARXC60LATH	ARXC72LATH	ARXC90LATH
Power source			230V~ , 50Hz				
Capacity	Cooling	kW	11.2	12.5	18.0	22.4	25.0
	Heating		12.5	14.0	20.0	25.0	28.0
Input power		W	405	427	427	1,110	1,250
Airflow rate	High	m^3/h	2,600	3,500	3,500	3,900	4,300
	Med		1,950	3,000	3,000	3,300	4,000
	Low		1,450	2,460	2,460	3,000	3,500
Static pressure range		Pa	100 to 200	100 to 250	100 to 250	50 to 300	100 to 300
Standard static pressure			100	100	100	260	250
Sound pressure level	High	dB(A)	45	49	49	51	53
	Med		38	45	45	48	51
	Low		32	42	42	45	49
Dimensions (H x W x D)		mm	400 x 1,050 x 500			450 x 1,550 x 700	
Weight		kg	45	47		82	85
Connection pipe diameter	Liquid	mm	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.

AIRSTAGE™ V-II

Indoor units specifications

Floor / Ceiling

Model name			ABYA12LATH	ABYA14LATH	ABYA18LATH	ABYA24LATH
Power source			230V~ , 50Hz			
Capacity	Cooling	kW	3.6	4.0	5.6	7.1
	Heating		4.1	4.5	6.3	8.0
Input power		W	57	57	88	88
Airflow rate	High	m^3/h	600	600	780	880
	Med		500	500	650	740
	Low		480	480	550	630
Sound pressure level	High	dB(A)	40	40	46	48
	Med		37	37	41.5	44
	Low		34	34	37	40
Dimensions (H x W x D)		mm	199 x 990 x 655			
Weight		kg	28			
Connection pipe diameter	Liquid (Flare)	mm	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			ABYA30LATH	ABYA36LATH	ABYA45LATH	ABYA54LATH
Power source			230V~ , 50Hz			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	124	144	160	180
Airflow rate	High	m^3/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			
Weight		kg	48			
Connection pipe diameter	Liquid (Flare)	mm	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		W	16	16	19	30	15	16	20	28
Airflow rate	High	m^3/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)		mm	275 x 790 x 215				275 x 790 x 215			
Weight		kg	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	

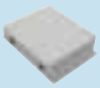
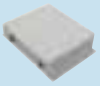
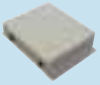
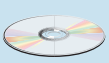
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Wall Mounted

Model name			ASYA18LATH	ASYA24LATH	ASYA30LATH
Power source			230V~ , 50Hz		
Capacity	Cooling	kW	5.6	7.1	8.0
	Heating		6.3	8.0	8.8
Input power		W	63	74	73
Airflow rate	High	m^3/h	870	940	980
	Med		700	720	870
	Low		540	600	750
Sound pressure level	High	dB(A)	43	45	45
	Med		37	39	42
	Low		30	33	39
Dimensions (H x W x D)	Net	mm	320 x 1,120 x 220		
Weight	Net	kg	16		
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	V-II
Individual control system	Wired Remote Controller		● UTB-YUD	● UTB-YUD	● UTB-YUB	● UTB-YUB	● UTB-YUB	● UTY-RNKY
	Simple Remote Controller		● UTB-YPB	● UTB-YPB	● UTB-YPB	● UTB-YPB	● UTB-YPB	● UTY-RSKY
	Simple Remote Controller (Without master control)		—	—	● UTB-YRA	● UTB-YRA	● UTB-YRA	● UTY-RHKY
	Wireless Remote Controller		● UTB-YNA	● UTB-YNA	Accessory	● UTB-YVB	● UTB-YVB	● UTY-LNHY
	IR Receiver Unit		● UTY-LRHY1	● UTY-LRHY1	Accessory	● UTB-YWA	● 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	● UTB-YDB	● UTY-CGGY
	Central Remote Controller		—	—	—	● UTB-YCA	● UTB-YCA	—
	Touch panel Controller		—	—	—	—	—	● UTY-DTGY
	System Controller		—	—	—	● UTY-APGX	● UTY-APGX	● UTY-APGX
Adaptor & Convertor	Transmission Adaptor		—	—	—	● UTR-YTMA UTR-YTMB	● UTR-YTMA UTR-YTMB	—
	Network Convertor		—	—	● UTR-YGCA	● UTR-YRDA	● UTR-YRDA	● UTY-VGGX
	Network Convertor for LONWORKS®		—	—	—	● UTR-YLLA	● UTR-YLLA	● UTY-VLGX
	BACnet® Gateway		—	—	—	● UTR-YLBA UTY-ABGX	● UTR-YLBA UTY-ABGX	● UTY-ABGX
	Signal Amplifier		—	—	—	● UTY-VSGX UTR-YRPC	● UTY-VSGX UTR-YRPC	● UTY-VSGX
	External Switch Controller		—	—	● UTR-YESA	● UTR-YESA	● UTR-YESA	● UTY-TEKX
Service & Maintenance	Service Tool		—	—	—	● UTY-ASGX UTR-YSTC	● UTY-ASGX UTR-YSTC	● UTY-ASGX
	Web Monitoring Tool		—	—	—	● UTY-AMGX UTR-YMSA	● UTY-AMGX UTR-YMSA	● UTY-AMGX

Comparison table of Controllers

Type			Individual control				Centralized control			
			Wired Remote Controller	Simple Remote Controller	Simple*1 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		●	–	–	●/–*3	–	●	●	●
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	10
Control	Status monitoring system		–	–	–	–	–	–	●	●
	Electricity charge calculation		–	–	–	–	–	–	–	●
	Error history		●	●	●	–	●	●	●	●
	Emergency stop		–	–	–	–	–	–	●*2	–
	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.

Control Systems for J series

System function

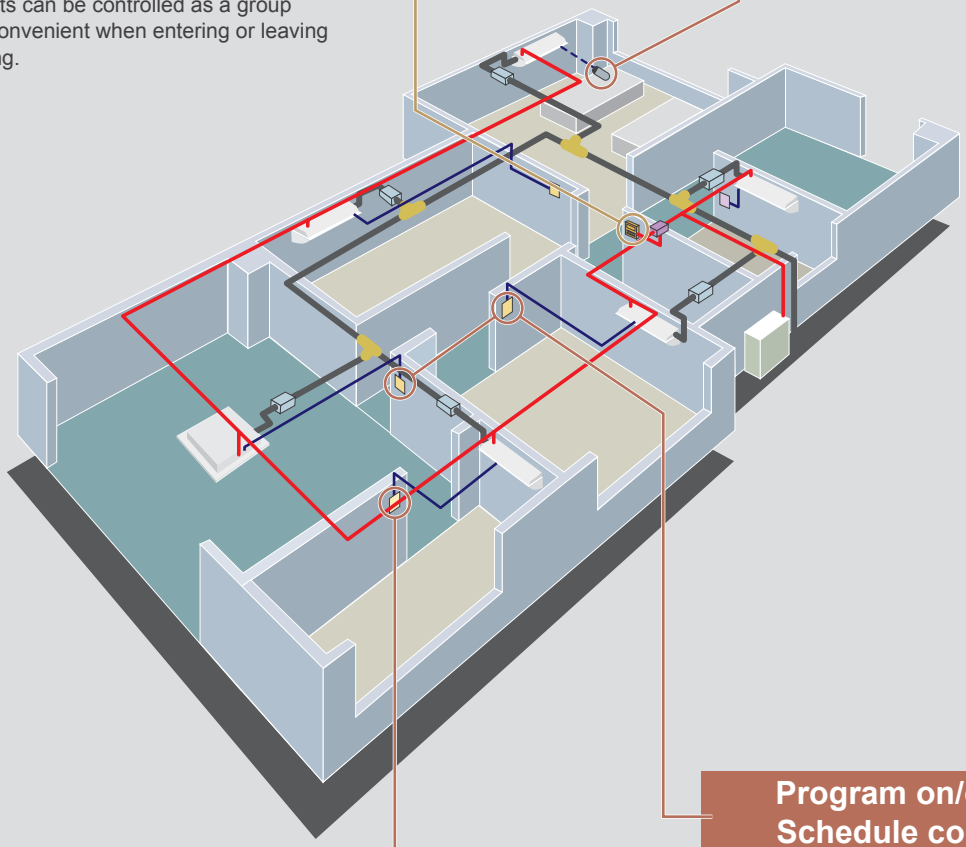
Five types of controllers are available to meet the varied needs of the building and the user. Tighter control over the air conditioned environment can be achieved by combining group remote controller which can operate all the indoor units at the same time, a wired remote controller with a weekly or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

Group control

Indoor units can be controlled as a group which is convenient when entering or leaving the building.

Wireless control

Conveniently positioned and easily operated, with full timer functions.



Program on/off & Schedule control

Program on/off control: Economic use of the air conditioning can be achieved by using programmed on/off control.
Schedule control: Indoor units can be controlled on a weekly or daily schedule.

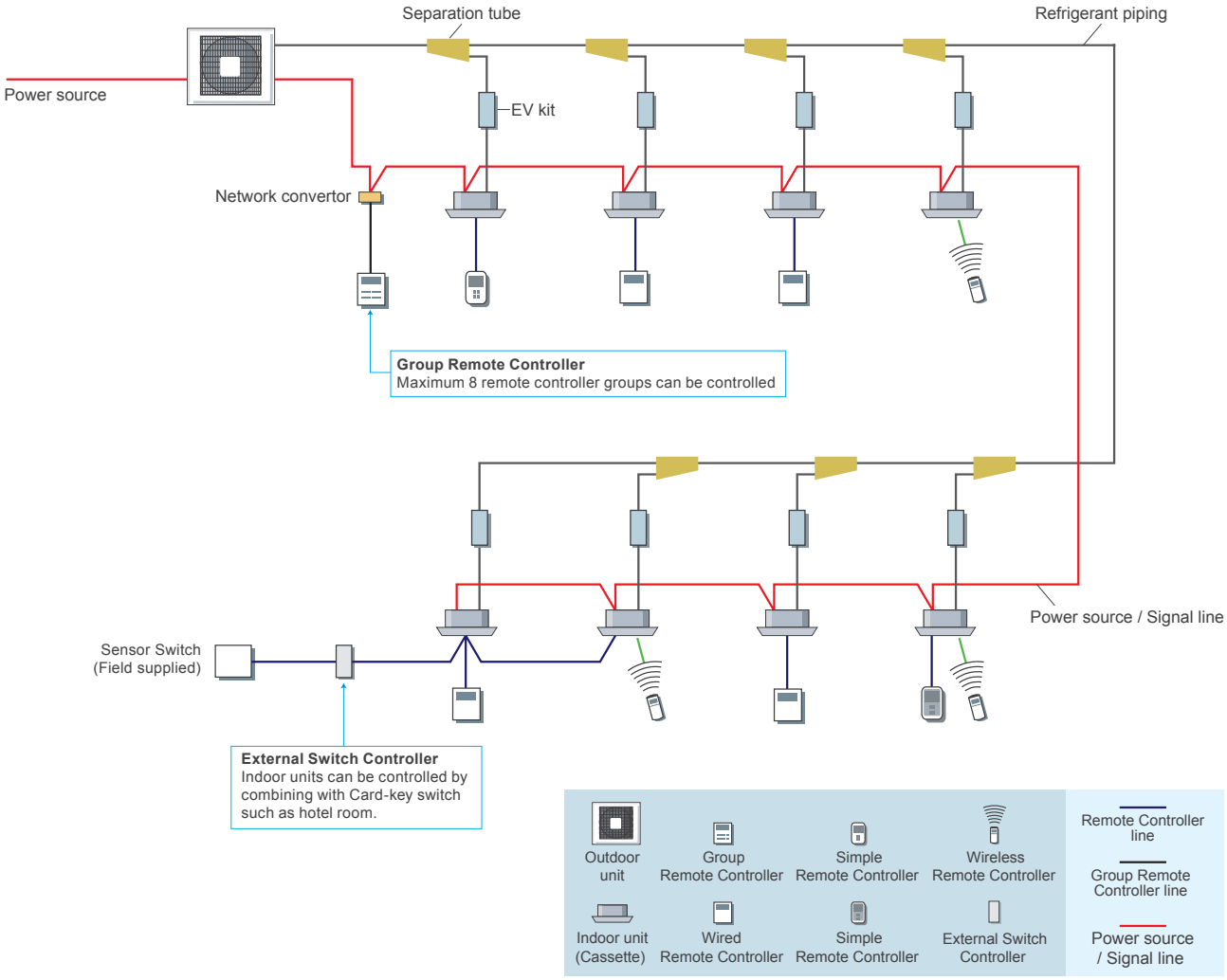
Simple operation control

Minimum necessary functions with simple operation. Easy to understand and use.

*AS7/AS9/AS12/AS14 are only available for wireless remote controller.

System diagram

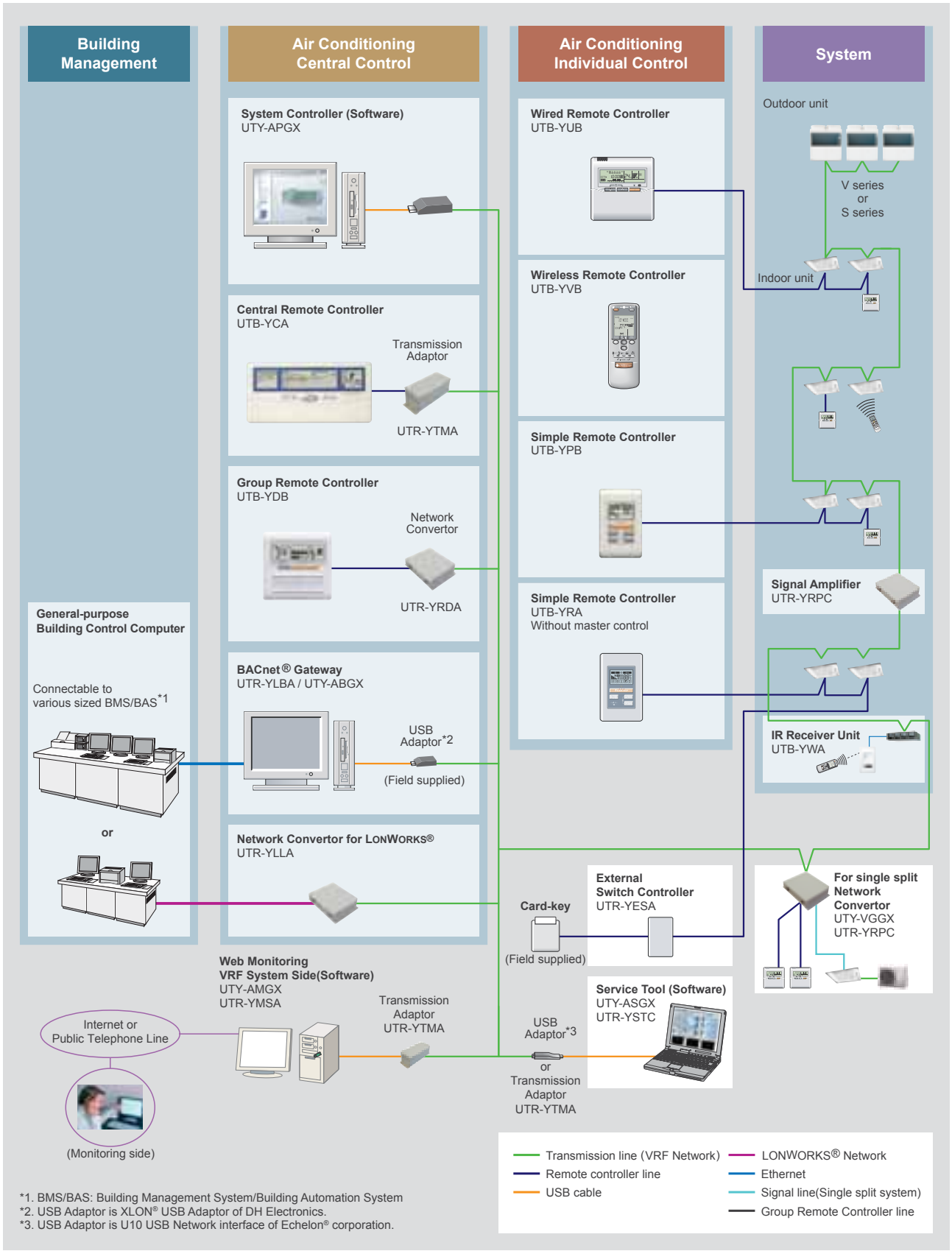
Max. connectable	Max. piping length	Max. total signal line
8 indoor units	70m	150m



Control Systems for S & V 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

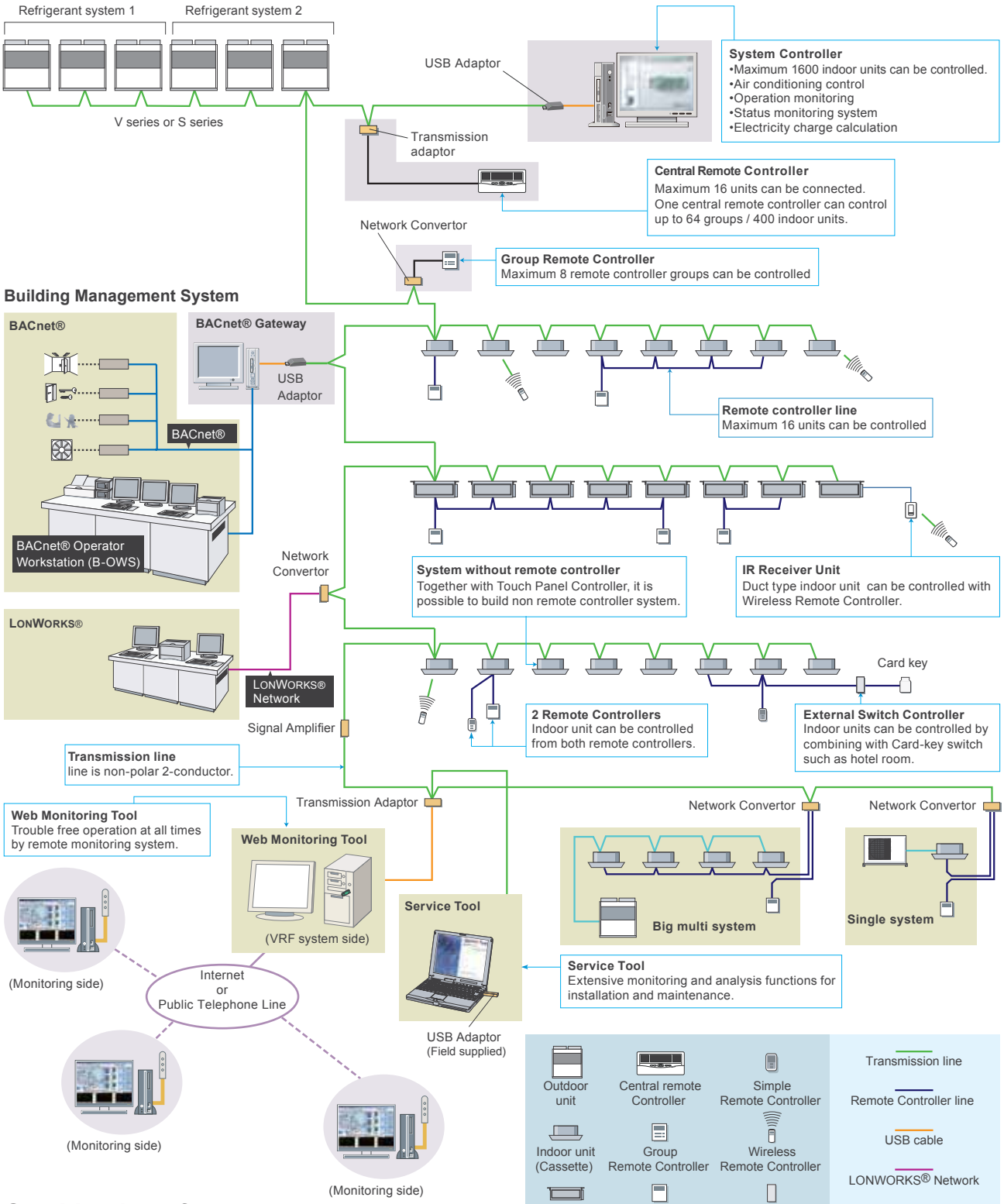


*1. BMS/BAS: Building Management System/Building Automation System
*2. USB Adaptor is XLON® USB Adaptor of DH Electronics.
*3. USB Adaptor is U10 USB Network interface of Echelon® corporation.

Max. connectable 100 outdoor units | Max. connectable 400 indoor units | Max. transmission line length 1,000m for S series | Max. transmission line length 2,000m for V series

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).

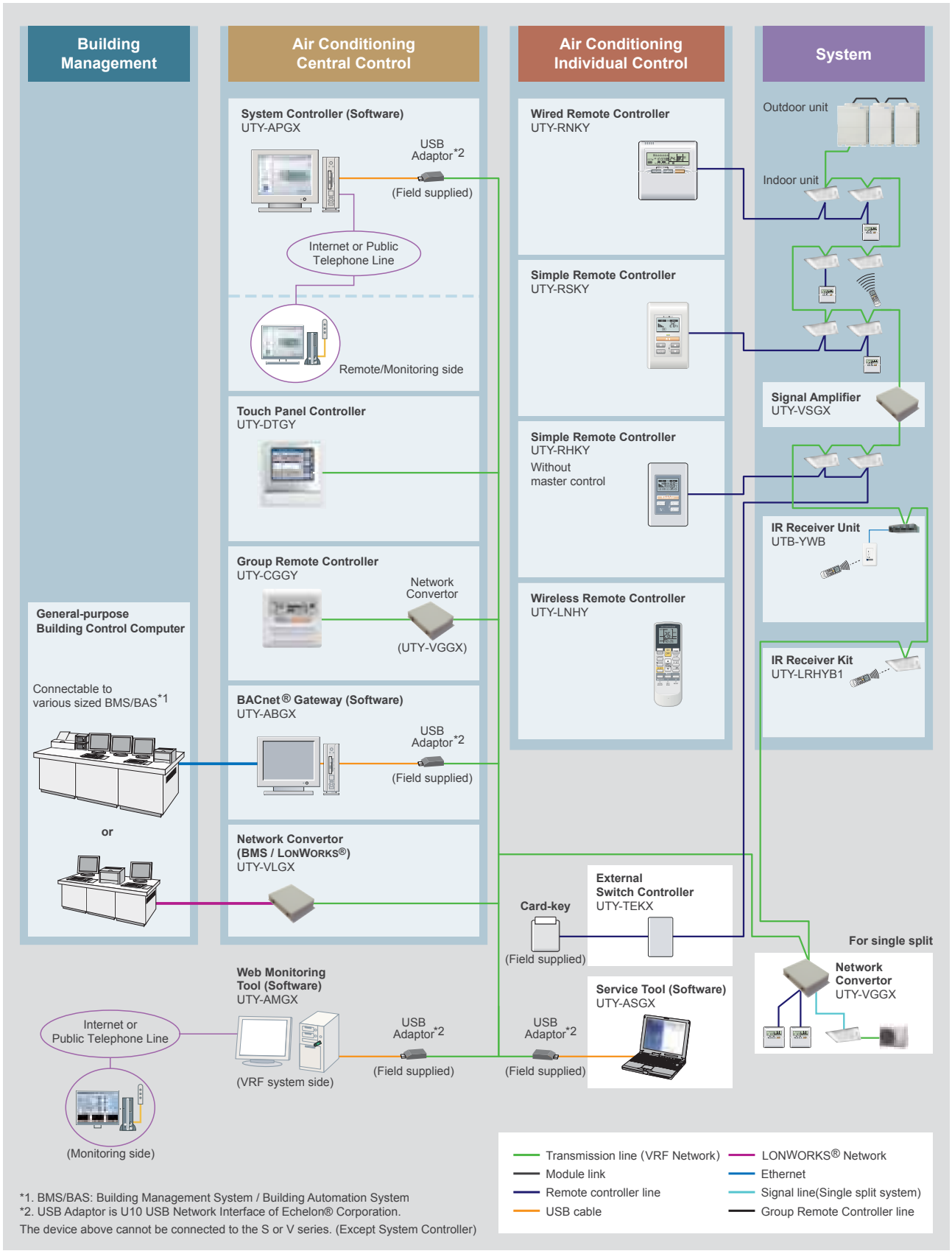


Combination of individual remote controller

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

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.



*1. BMS/BAS: Building Management System / Building Automation System
*2. USB Adaptor is U10 USB Network Interface of Echelon® Corporation.
The device above cannot be connected to the S or V series. (Except System Controller)

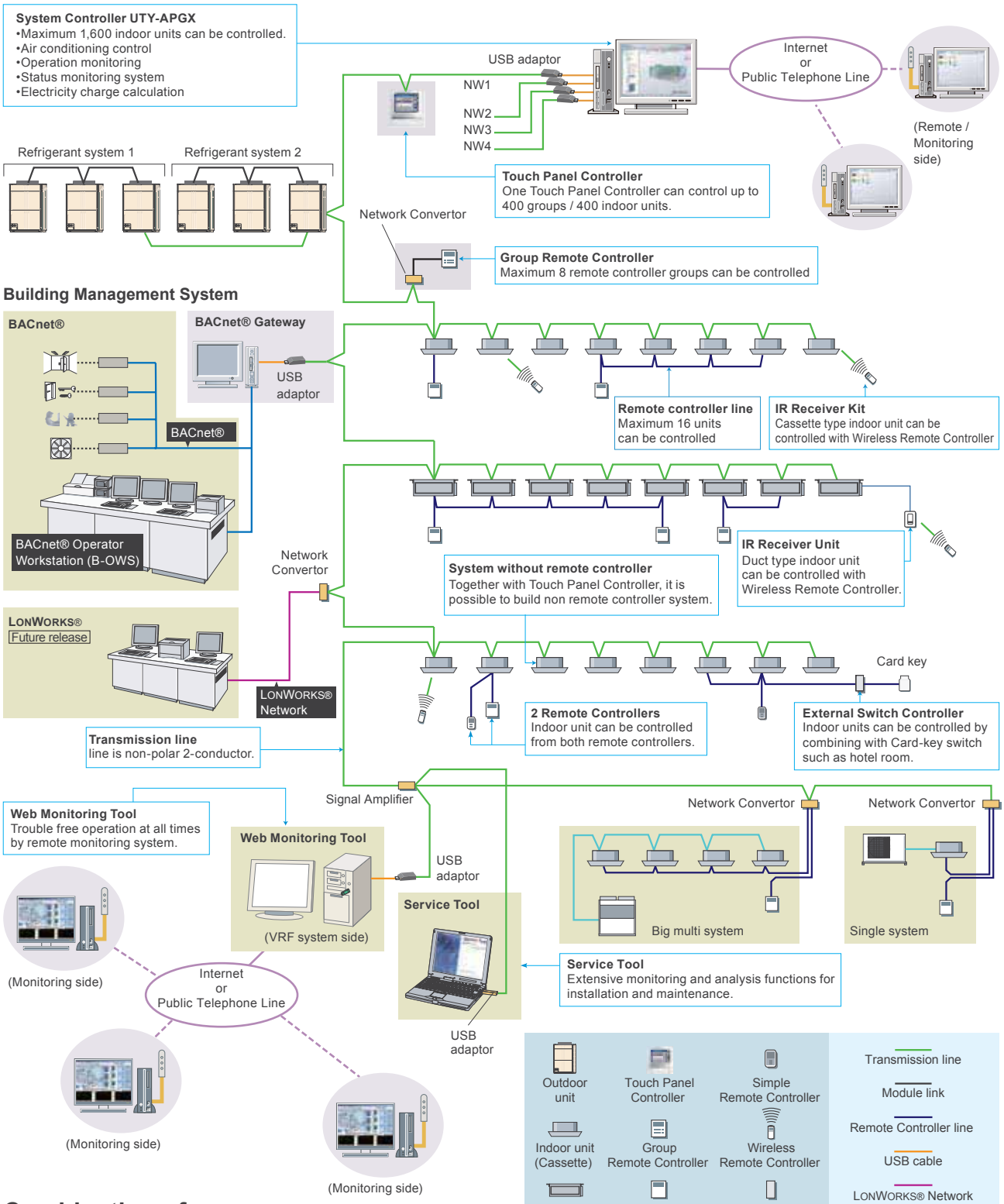
Max. connectable 100 outdoor units

Max. connectable 400 indoor units

Max. transmission line length 3,600m

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).



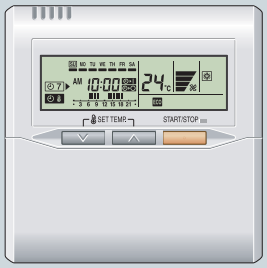
Combination of individual remote controller

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

Controller

Wired Remote Controller

Max. controllable 16 indoor units



UTB-YUD/UTB-YUB/UTY-RNKY

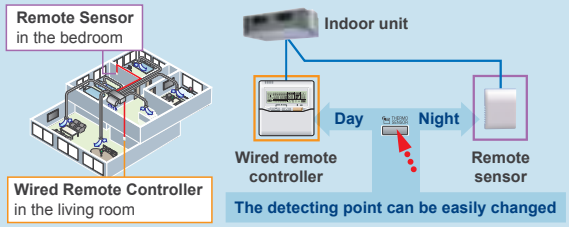
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

- 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.

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.

Example of changing sensor



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

Max. controllable 16 indoor units

UTB-YPB/UTY-RSY

UTB-YRA/UTY-RHKY
Without master control

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.

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

Max. controllable 16 indoor units

Selectable 4 daily timers

UTB-YVB

UTB-YNA/UTY-LNHY

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.

Built-in timers

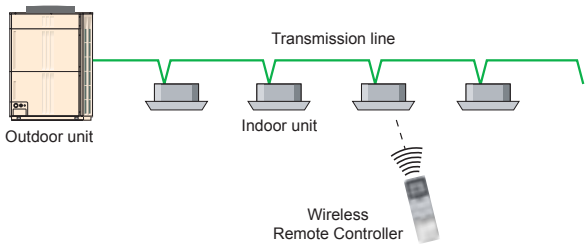
Select from 4 different timer programs:
On / Off / Program / Sleep
Program timer: The program timer operates the ON and OFF timer once within a 24 hour period.
Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or 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

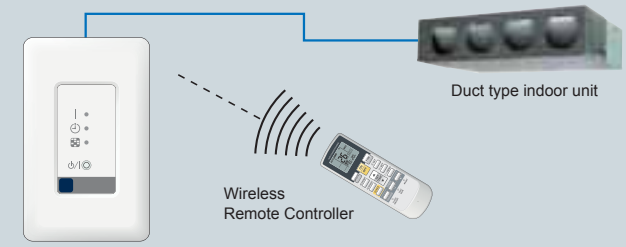
During installation work, system addressing can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.



IR Receiver Unit

UTY-LRHY1/UTB-YWA/UTB-YWB

Necessary to control for all duct type by Wireless Remote Controller

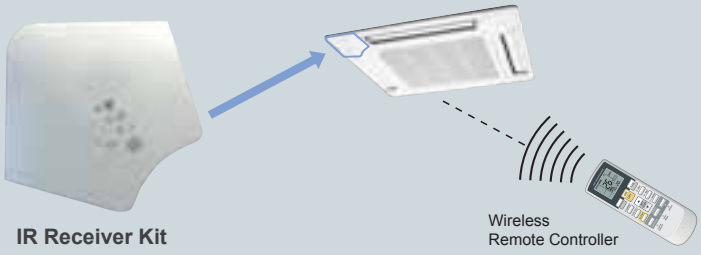


IR Receiver Unit

IR Receiver Kit

UTY-LRHYA1
UTY-LRHYB1

Cassette type indoor unit can be controlled with Wireless Remote Controller



IR Receiver Kit

Specifications

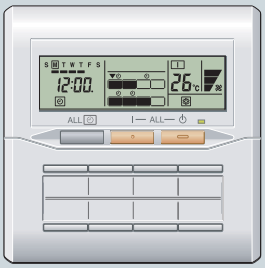
Model name	UTB-YNA/UTB-YVB/UTY-LNHY	UTY-LRHY1/UTB-YWA/UTB-YWB	UTY-LRHYA1/UTY-LRHYB1
Battery	1.5V (R03 / LR03 / AAA) x 2	DC 12V	DC 12V
Dimensions (H x W x D) (mm)	158 x 56 x 20	122 x 60 x 26.5	213.8 x 213.8x 25.7
Weight (g)	70	150	140

Controller

Group Remote Controller

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

Max. controllable 8 remote controller groups



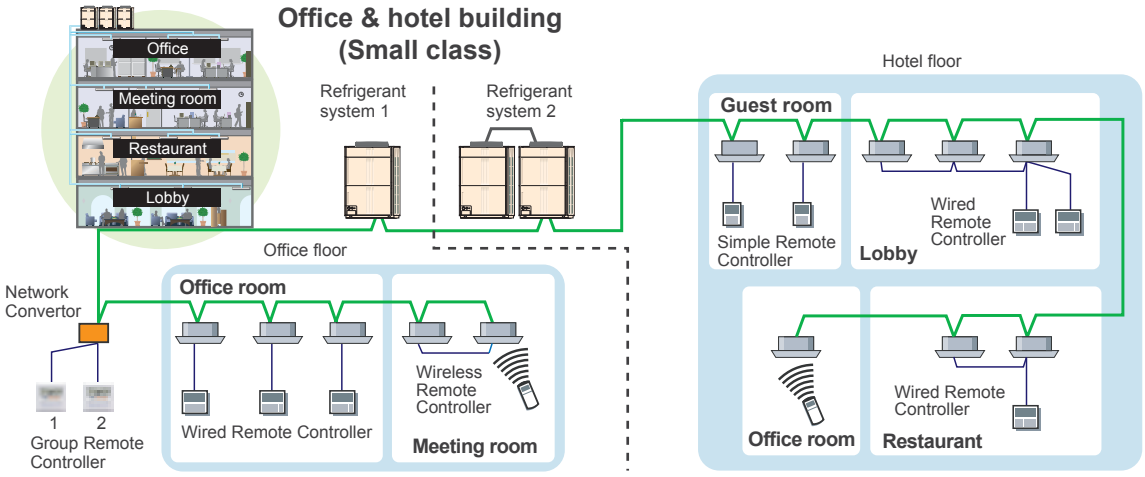
UTB-YDB / UTY-CGGY

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 Convertor is required to connect Group Remote Controllers to a VRF network system.
  (Network Convertor allows up to 4 Group Remote Controllers)

Control up to 8 remote controller groups

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



Group Remote Controller 1: To control office floor and hotel floor (8 remote controller groups).
Group Remote Controller 2: To control hotel floor (5 remote controller groups).

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

Max. controllable 400 indoor units

Max. controllable 400 remote controller groups

Max. controllable 64 groups

UTB-YCA

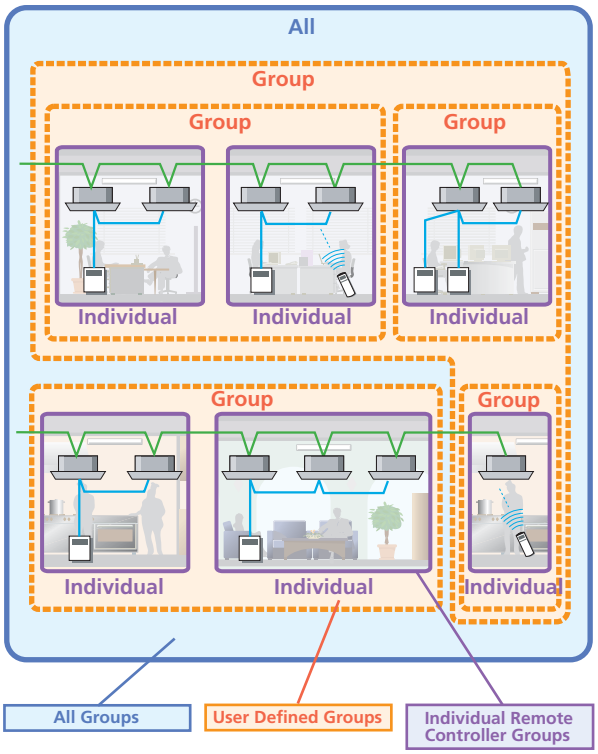
Functionality in a compact housing with built-in weekly timer

- 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.

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

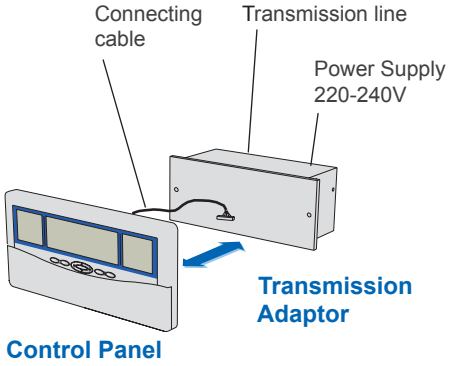


Central control

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

7.5 inch screen

Stylish design

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

Easy operation

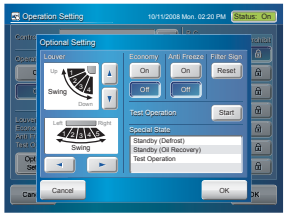
•Wide range of simple-to-understand icons
•Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon
•Up-to-date status display
•Background color identifies current control operation blue for monitoring, green for operational control

Functions

Individual control

Flexible grouping

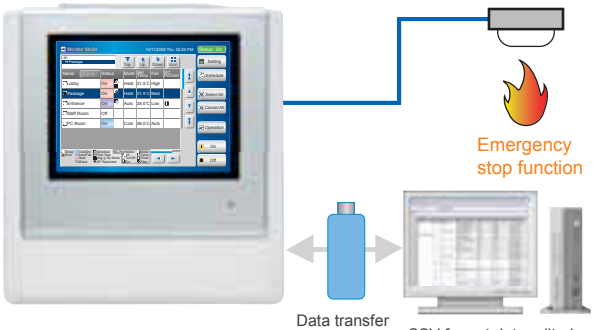
Schedule control



Indoor units operation monitoring

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

Max. controllable 4 VRF system

Max. controllable 400 outdoor units

Max. controllable 1,600 indoor units

UTY-APGX

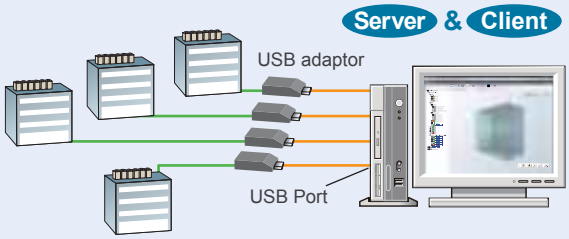
This system realizes the advanced general monitoring and control of VRF system from small scale buildings to large scale buildings.

• Supports VRF S series, V series and V-II series.

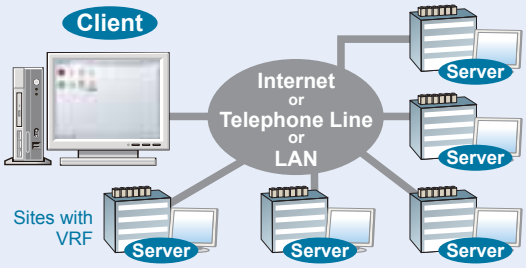
Remote centralized control

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

On site central control Max. 4 network system per site

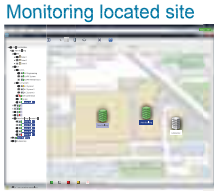


Remote central control Controlled sites of up to 10



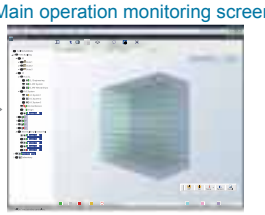
User friendly view and operation

Monitoring located site



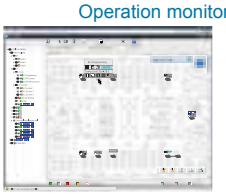
Monitor mode (Site)

Main operation monitoring screen

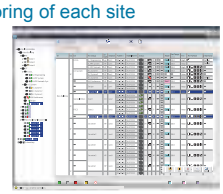


Monitor mode (Building)

Operation monitoring of each site

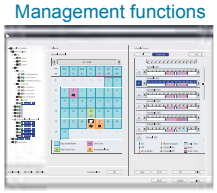


Monitor mode (Floor)



Monitor mode (List)

Management functions



Schedule setting

Functions

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

Specifications

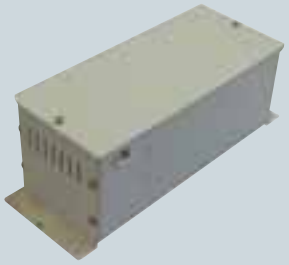
Personal Computer	AT compatible machine that runs Microsoft® Windows®
Operating System	Microsoft® Windows® Vista Home Premium, Business, Ultimate Edition Microsoft® Windows® XP Professional with Service Pack2 or later
CPU	Intel® Pentium® / Celeron 2GHz (Server), 1GHz (Client) or higher
HDD	40GB or more of free space (5GB for Client PC)
Memory	1GB or more
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 or later.

PACKING LIST

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

Adaptor & Convertor

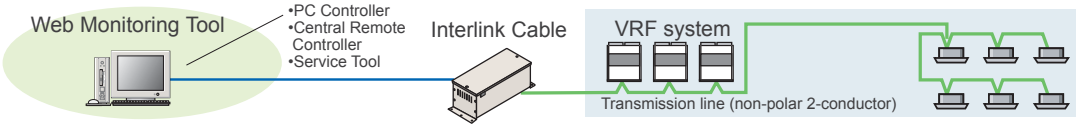
Transmission Adaptor



UTR-YTMA / UTR-YTMB

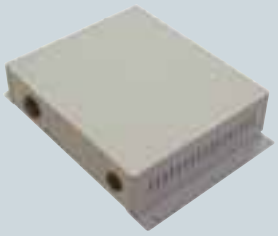
•For air conditioning of the medium and large size buildings, the control software can control and monitor air conditioners together with the ones in the other buildings.
•This device enables control by other equipment via an Interlink cable or connection cable.
•Up to 400 Indoor units / 100 Outdoor units can be connected to one Transmission Adaptor.

Installation example



Network Convertor

Max. controllable 16 Network Convertor units

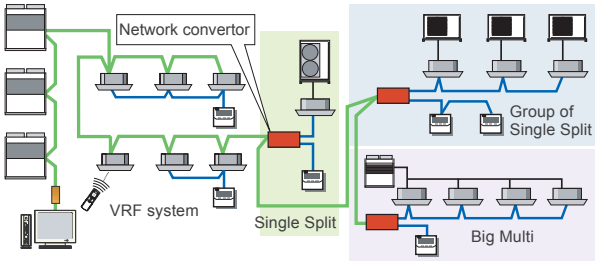


UTR-YRDA / UTY-VGGX / UTR-YGCA

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

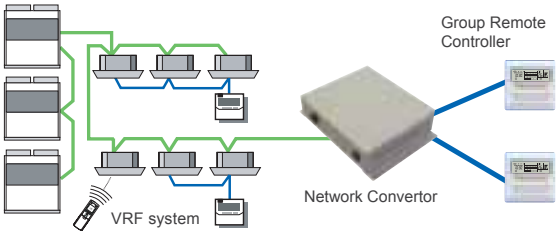
Installation example

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



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

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



* 2 refrigerant circuits can be covered by a single network convertor. Up to a total of 16 network convertors and central remote controller adapters can be connected in a single VRF system.

Specifications

Model name	UTR-YTMA / UTR-YTMB
Power Source	50-60Hz 220-240V
Power Consumption (W)	2.9
Fuse Capacity	3A
Dimensions (H X W X D) (mm)	100 x 288 x 110
Weight (g)	1,300

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

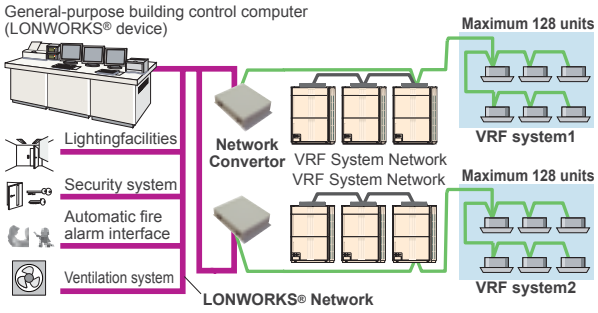
Network Convertor for LONWORKS®

Max. controllable 128 indoor units

UTR-YLLA / UTY-VLGX (Future Release)

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

Installation example



Transmission specifications (BMS side)

Transmission speed	78kbps
Transceiver	FTT-10A
Transmission way form	Free topology
Termined resistor	None (It attaches at the terminal of a network.)

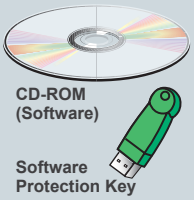
BACnet® Gateway

Software

Max. controllable 4 VRF system

Max. controllable 400 outdoor units

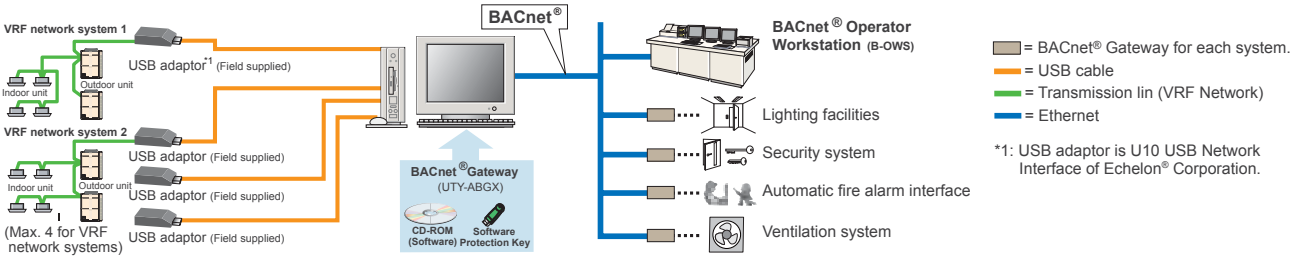
Max. controllable 1,600 indoor units



UTR-YLBA / UTY-ABGX (Future Release)

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

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

Personal Computer	AT compatible machine that runs Microsoft® Windows®
Operating System	Microsoft® Windows® Vista Home Premium, Business, Ultimate Edition Microsoft® Windows® XP Professional with Service Pack2 or later
CPU	Intel® Pentium® / Celeron 2GHz or higher
Memory	1GB (Vista) , 512MB (XP) or more
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® Acrobat® reader 4.0 or later

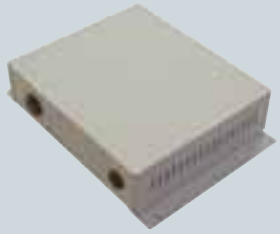
PACKING LIST

Packing List	CD-ROM / Wibu Key

Adaptor & Convertor, Service & Maintenance

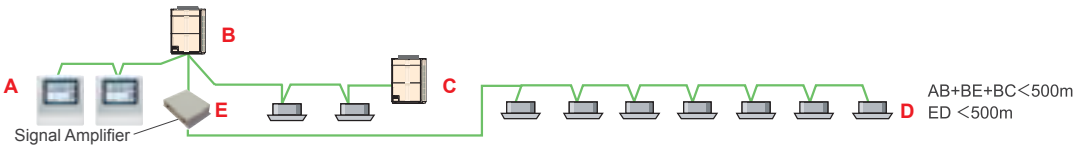
Signal Amplifier

UTR-YRPC / UTY-VSGX



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

Installation example



External Switch Controller

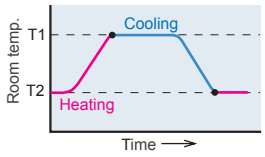
UTR-YESA / UTY-TEKX

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.

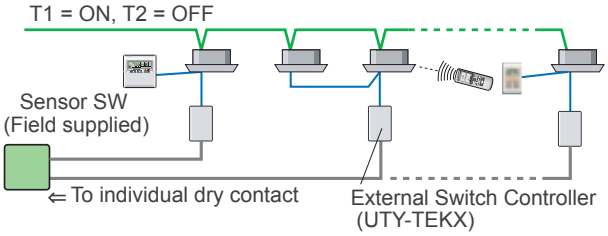
Installation example

•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.

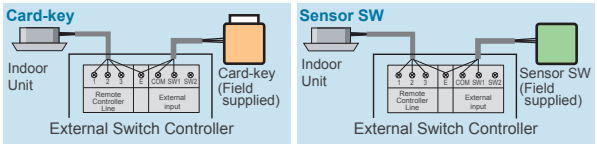


Note 1.
Please choose a thermosensor switch which can be set up for T1 and T2.

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



Electrical wiring



Specifications

Model name	UTR-YRPC / 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

UTR-YSTC / UTY-ASGX

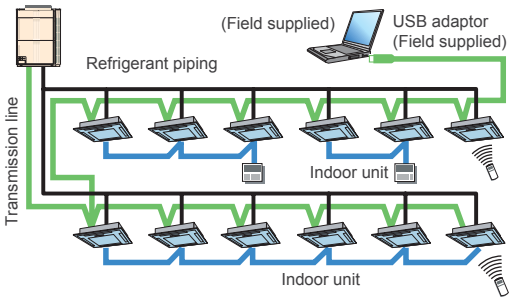
Max. Monitor and controll 400 indoor units

Max. Monitor and controll 100 outdoor units

Extensive monitoring and analysis functions for installation and maintenance

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

Wiring connection



Functions

- Equipment Detail (Diagram)

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

Web Monitoring Tool Software

UTR-YMSA / UTY-AMGX

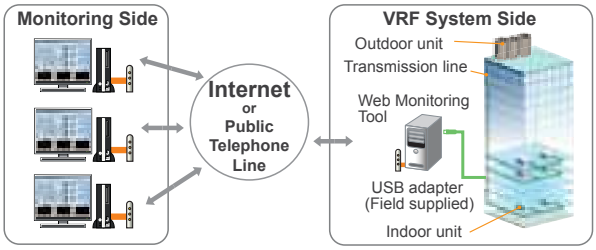
VRF system can be supported 4

1,600 indoor units can be supported

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.

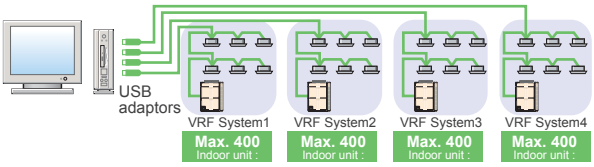
Web Monitoring System



Support 4 VRF system

- USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.

Suitable for large-scale buildings or hotels.



*1:USB of internet mail system required.

Specifications

Model name	UTR-YSTC / UTY-ASGX	UTR-YMSA / UTY-AMGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®	
Operating System	Microsoft® Windows® 2000 Professional (English version / Service pack4 or later), XP Professional (English version / Service pack2 or later) Microsoft® Windows® Vista Home Premium, Business, Ultimate Edition. (English version)	
CPU	Intel® Pentium® / Celeron®, AMD AthlonTM / DuronTM 1GHz or higher	
HDD	4.1 GB or more of free space	
Memory	1GB (Vista) , 512MB (XP/2000) or more	1GB or more
Interface	USB port is required for each of the following ; -Wibu Key(Software protection key) -Echelon® U10 USB Network Interface(Required for each VRF Network)	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® Acrobat® Reader 4.0 or later	
Hardware	USB Adaptor is U10 USB Network interface of Echelon® corporation.	

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

Optional Parts

Controllers

System Controller

UTY-APGX

Touch Panel Controller

UTY-DTGY

Central Remote Controller

UTB-YCA

Group Remote Controller

UTB-YDB/UTY-CGGY

Wired Remote Controller

UTB-YUD

Wired Remote Controller

UTB-YUB/UTY-RNKY

Simple Remote Controller

UTB-YPB/UTY-RSKY
With master control

Simple Remote Controller

UTB-YRA/UTY-RHKY
Without master control

Wireless Remote Controller

UTB-YVB

Wireless Remote Controller

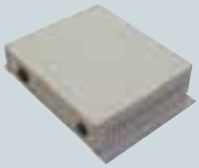
UTB-YNA/UTY-LNHY

Adaptors/Convertors

Transmission Adaptor

UTR-YTMA/UTR-YTMB

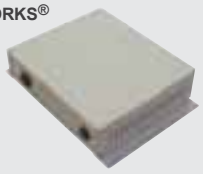
Network Convertor



UTR-YRDA/UTR-YGCA/UTY-VGGX

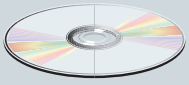
Network Convertor

for LONWORKS®



UTR-YLLA/UTY-VLGX

BACnet® Gateway

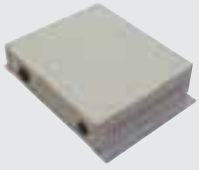


CD-ROM (Software)

Software Protection Key

UTR-YLBA/UTY-ABGX

Signal Amplifier



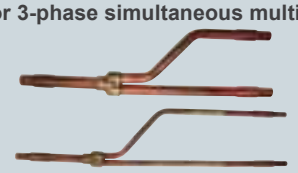
UTR-YRPC/UTY-VSGX

External Switch Controller

UTR-YESA/UTY-TEKX

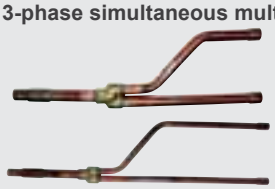
Connection Units

Separation Tube
For 3-phase simultaneous multi



UTP-SX236A

Separation Tube
For 3-phase simultaneous multi



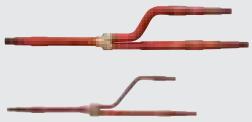
UTP-SX254A

Separation Tube
For 3-phase simultaneous multi

UTP-SX354A

Separation Tube
For J series

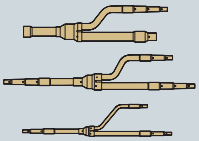
Separation tubes are available for installation as necessary.



UTR-BP54U/UTR-BP054X

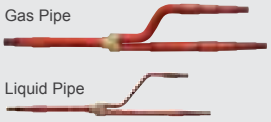
Separation Tube
For S series

Separation tubes are available for installation as necessary.



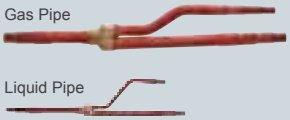
UTR-BP54MA/UTR-BP90MA

Separation Tube
For V and V-II Series



UTR-BP090X

Separation Tube
For V and V-II Series

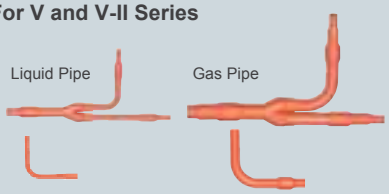


UTR-BP180X

Separation Tube
For V and V-II Series

UTR-BP567X

Outdoor Unit Branch Kit
For V and V-II Series



UTR-CP567X

RB (Refrigerant Branch) Unit
For S series

Single type

UTF-Y54A1A

RB (Refrigerant Branch) Unit
For S series

Multi type

UTF-Y90A4A

Header
For J series

Headers are available for installation as necessary.

UTR-HD546U

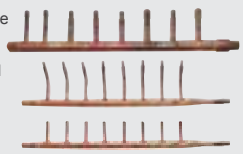
Header
For S series

Headers are available for installation as necessary.
*Reducer is attached to each header kit.

UTR-HD906R

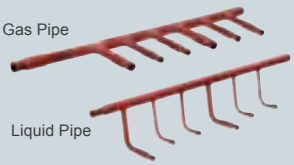
Header
For S series

Headers are available for installation as necessary.
*Reducer is attached to each header kit.



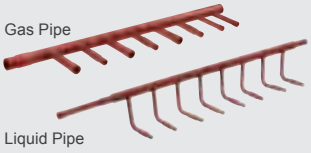
UTR-HD908R

Header
For V and V-II Series



UTR-H0906L/UTR-H1806L

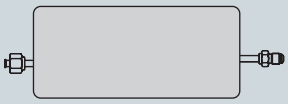
Header
For V and V-II Series



UTR-HD908L/UTR-H1808L

EV Kit
For J series

EV kit is available for installation as necessary.



UTR-EV2AXL/UTR-EV3XL

Optional Parts

Others

For Duct type

Flange(Round)

UTD-RF204

Flange(Square)

UTD-SF045T

Long-Life Filter

UTD-LF25NA

Long-Life Filter

UTD-LF60KA

Drain Pump Unit

UTZ-PX1BBA/UTZ-PX1NBA

IR Receiver Unit

UTY-LRHY1/UTB-YWA/UTB-YWB

Remote Sensor Unit

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

UTD-RS100

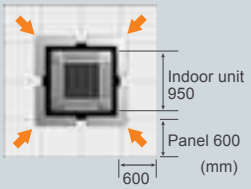
External Control Set

Use to connect with various peripheral devices and air conditioner PC board.

UTD-ECS5A

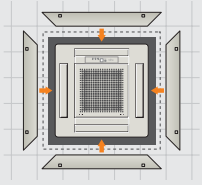
For Cassette type

Wide Panel



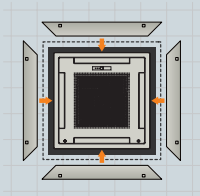
UTG-AGYA-W

Additional Grille



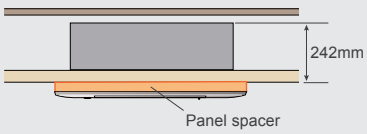
UTG-AGDA-W

Additional Grille



UTG-AGEA-W

Panel Spacer



UTG-BGYA-W

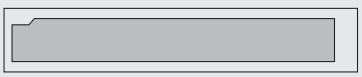
Air Outlet Shutter Plate

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

UTR-YDZC

Air Outlet Shutter Plate

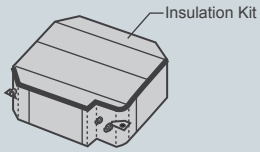
Shuts the air outlet when only using as 2 or 3 blow out.



UTR-YDZB

Insulation Kit

For High Humidity



UTZ-KXGA/UTZ-KXGC

IR Receiver Kit

UTY-LRHYA1

IR Receiver Kit

UTY-LRHYB1

Grille Kit

UTG-UDYD-W

Grille Kit

UTG-UFYC-W

Grille Kit

UTG-UGYA-W

For Ceiling type

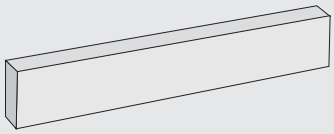
Drain Pump Unit

UTR-DPB24T

For Floor type

Half Concealed Kit

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



UTR-STA

For Wall Mounted type and Floor type

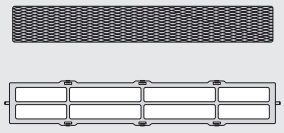
External Indication Kit

UTY-XWZX

For Wall Mounted type

Air Clean Filter

Air clean filter assembly for initial setting.



UTR-FA08

Air Clean Filter

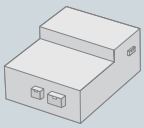
UTR-FB03

EV Kit

For without EV Kit model (V and V-II series)

UTR-EV09XA/UTR-EV14XA/
UTR-EV09XB/UTR-EV14XB

Sub Interface Board



UTY-XCBXE

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.

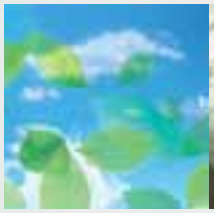
Humidity adjusting effect

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.

THE POSSIBILITIES ARE INFINITE FUJITSU



MORE COMFORTABLE AIR CONDITIONING

Energy Recovery Ventilator

FUJITSU GENERAL LIMITED

Energy Recovery Ventilator

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

UTZ-BX025A

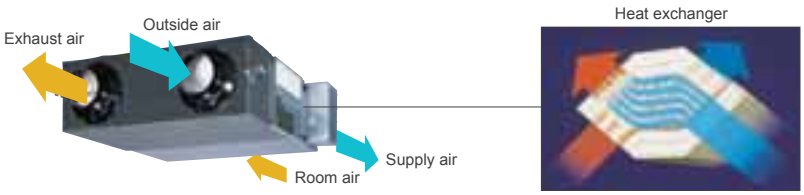
UTZ-BX035A

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 recoverd 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 exchang, alleviating the load on the air conditioning equipment.

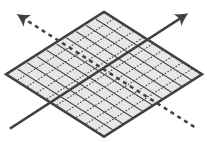
High Efficiency

Energy efficiency and ecology

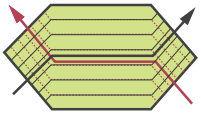
20% Energy saving

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 lomger 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 m³/h or less, and 37.5 dB (High) for models with a capacity of 1,000 m³/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

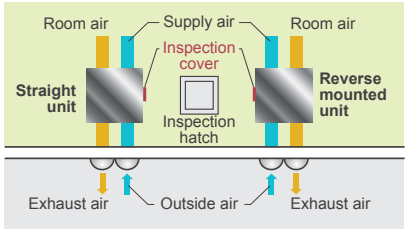
Slim shape and easier installation

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.

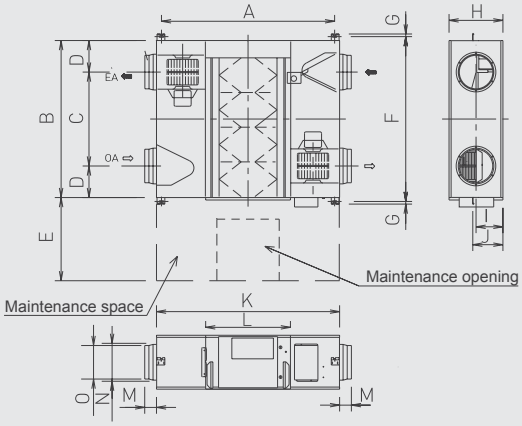
Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



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
	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
NORMAL VENTILATION	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

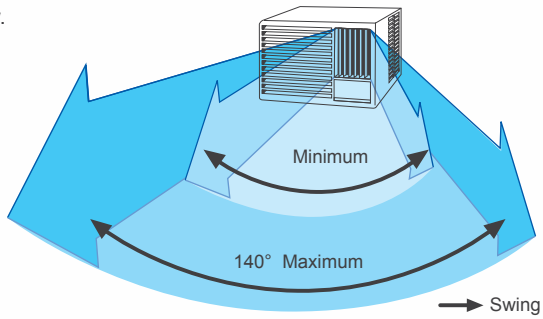
* The noise level must be measured 1.5 m below the centre of the unit.

Window

Quickly transforms your room into an oasis

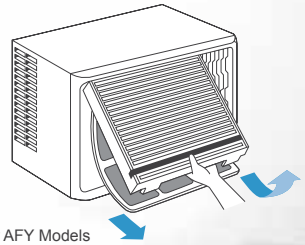
The Airflow Direction can be Freely Adjusted

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/ Ø/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		kW	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		A	4.7/4.2	6.2/5.8	8.0/7.2
Moisture Removal			l/h	0.9	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		m^3/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			●	●	●

THE POSSIBILITIES ARE INFINITE FUJITSU

3 models

COMPACT, HIGH POWER, AND LOW NOISE

Window type Air Conditioners

FUJITSU GENERAL LIMITED

Air to Water

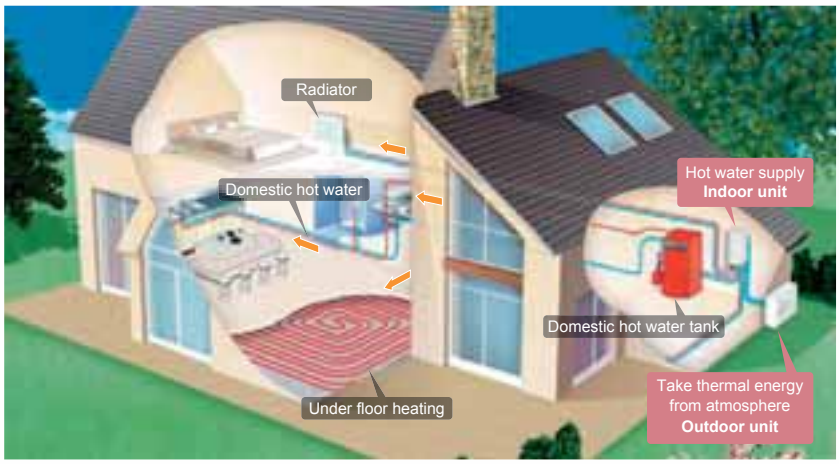
Efficient and comfortable heating solution

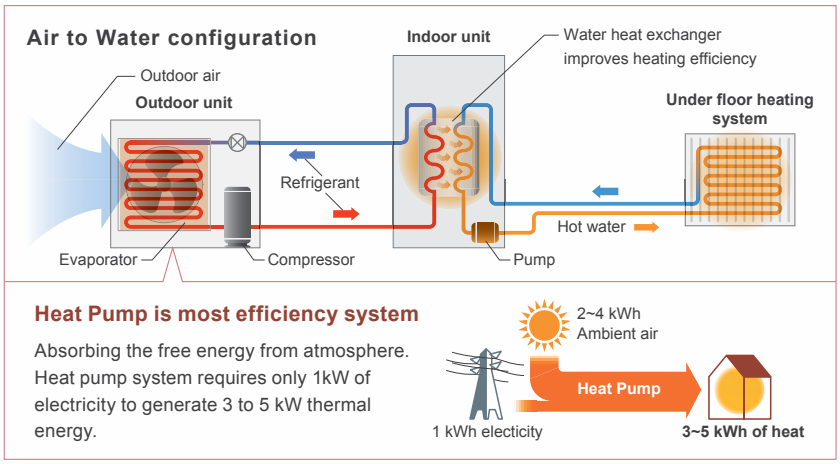
WATERSTAGE™ is a safe, comfortable, and efficient water heating system by adopting heat pump technology that utilizes the heat in the air.

This system provides support for space heating and water heating.

This WATERSTAGE™ uses very little electric energy to efficiently absorb heat from the atmosphere by adopting an inverter heat pump. A small environmental load heat source system can be economically realized by using this heat energy to produce hot water for radiator, floor heating or domestic hot water.

Flexible and comfortable heating solution for new building and refurbishment house





Heat Pump is most efficiency system

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

THE POSSIBILITIES ARE INFINITE

FUJITSU

WATERSTAGE™

FUTURE SOLUTION OF DOMESTIC HEATING

Air to Water

FUJITSU GENERAL LIMITED

WATERSTAGE™

NEW
Indoor unit
WSYA050DA
WSYA065DA
WSYA080DA
WSYA095DA
WSYA128DA
WSYA155DA

NEW
Outdoor unit

AOYA18LALL
AOYA24LALL

AOYA30LBTL

AOYA45LBTL
AOY54LJBYL

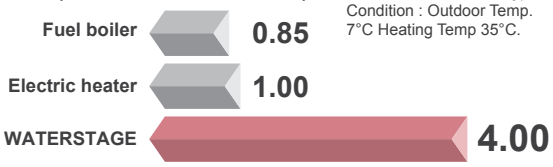
High Efficiency

High COP

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

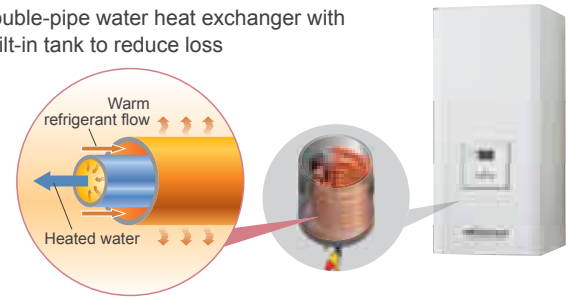
COP (Coefficient of Performance)

*The data refer to 6kW type
Condition : Outdoor Temp. 7°C Heating Temp 35°C.

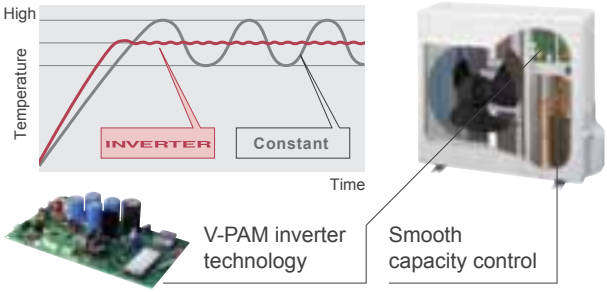


Highly efficient water heat exchanger

Double-pipe water heat exchanger with built-in tank to reduce loss



Technology DC inverter with R410A



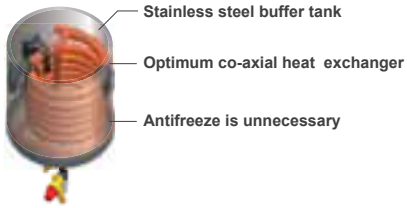
Low ambient temperature performance

Achieves excellent heating performance even at an outdoor air temperature of -15ºC.

High Reliability

High Clean and Durability

- Corrosion protected
- No fouling through heat exchanger construction
- Hot water is permanently available
- Heating until -15°C



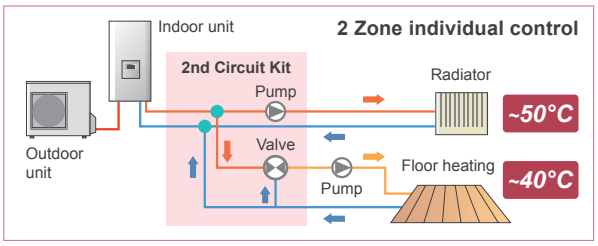
Intelligent Control System

Intelligent regulation

Intelligent operation system of WATERSTAGE™ system is provided to regulate the efficient and comfortable temperature according to your needs.

Room Thermostat
UTW-C55XA

- Automatic temperature regulation in accordance with heating curve (depends on terminal and outdoor temperature).
- 2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*
- Water temperature regulation can be combined with Room thermostat.*
- Additional electric heater control for backup
- Domestic hot water management with hot water tank*
- Boiler docking is possible*
- Cooling operation is possible*
- Swimming pool heating*
- Anti legionella function



*Optional parts are required.

Smart operation

- Simple design system
- Hourly, Daily, Weekly programming operation
- Holiday operation mode
- Operation status display
- Error display / Error history

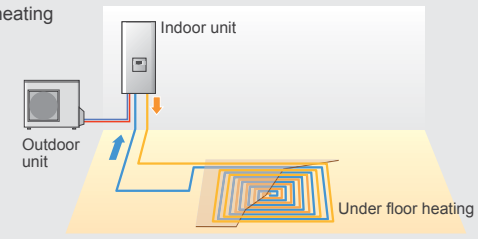
Design Versatility

Installation example

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

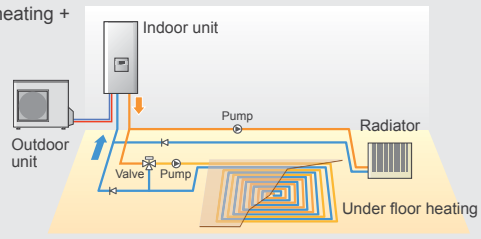
Single heating system

Under floor heating



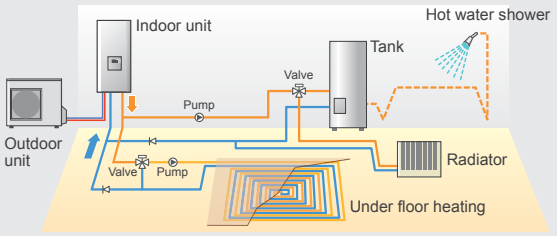
2 system simultaneous heating (Individual control)

Under floor heating + Radiator



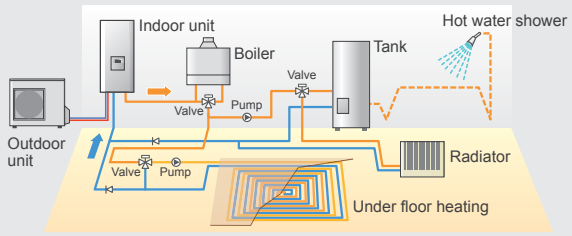
3 types of heat distribution

Under floor heating + Radiator + Sanitary hot water



System for low outdoor air temperatures
(additional heating boiler connection)

Under floor heating + Radiator + Sanitary hot water



WATERSTAGE™

Lineup

Capacity range (kW)		5	6	8	10	13	16
Model name	Indoor unit	 WSYA050DA	 WSYA065DA	 WSYA080DA	 WSYA095DA	 WSYA128DA	 WSYA155DA
	Outdoor unit	 AOYA18LALL		 AOYA24LALL	 AOYA30LBTL	 AOYA45LBTL	 AOY54LJBYL

Optional parts

2nd Circuit Kit

UTW-KZSXA

Boiler Connection Kit

UTW-KBSXA

Balancing Vessel

UTW-TEVXA

DHW Kit

UTW-KDWXA

DHW Tank 200L

UTW-T20XA

DHW Tank 300L

UTW-T30XA

High Flow Rate Circulating Pump Kit

UTW-PHFXA

Swimming Pool Kit

UTW-KSPXA

Heat exchanger for swiming pool

UTW-ESPXA

Cooling Kit

UTW-KCLXA

Cooling Kit (High flow rate)

UTW-KCHXA

Remote Control

UTW-C75XA

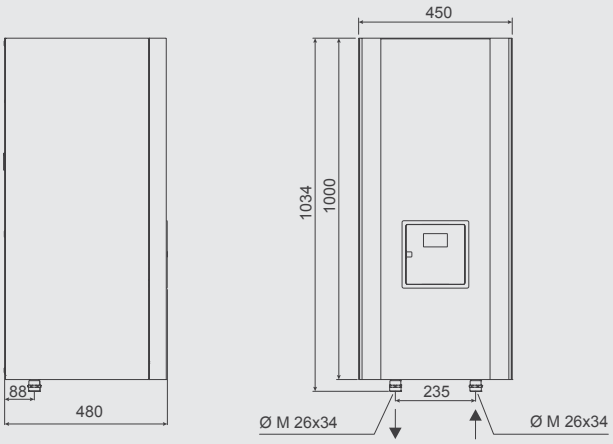
Room Thermostat

UTW-C55XA

Dimensions

Models: WSYA050DA / WSYA065DA / WSYA080DA
WSYA095DA / WSYA128DA / WSYA155DA

(Unit : mm)



Specifications

Capacity range (kW)			5	6	8	10	13	16
+7°C/+35°C floor heating	Heating capacity	W	5000	6500	8000	9500	12800	15500
	Input power		1160	1630	1880	2370	3120	3880
	COP		4.30	4.00	4.25	4.00	4.10	4.00
-7°C/+35°C floor heating	Heating capacity	W	4800	5600	7000	8100	11000	13800
	Input power		1750	2240	2540	3520	3790	5300
	COP		2.75	2.50	2.76	2.30	2.90	2.60
+7°C/+45°C radiators	Heating capacity	W	4150	5400	6200	7900	9700	13300
	Input power		1150	1610	1680	2390	3130	4090
	COP		3.60	3.35	3.30	3.30	3.10	3.25
-7°C/+35°C radiators	Heating capacity	W	4050	5100	5900	7900	8300	11000
	Input power		1720	2320	2620	3590	4610	5370
	COP		2.35	2.20	2.25	2.20	1.80	2.05
Electric heater		W	2 x 1500	2 x 1500	2 x 1500	2 x 3000	2 x 3000	2 x 3000
Indoor unit	Model name		WSYA050DA	WSYA065DA	WSYA080DA	WSYA095DA	WSYA128DA	WSYA155DA
Dimensions H x W x D		mm	1000 x 450 x 480					
Net weight / filld weight		kg	52.5 / 77.5					
Hydaulic characteristics								
Buffer tank capacity		l	25					
Expansion Vessel capacity		l	8					
Water flow rate (min./max.) 4°C < ΔT < 8°C		l/h	540 / 1100	600 / 1400	860 / 1700	1000 / 2050	1380 / 2700	1670 / 3300
Electrical connections								
Power source			230V~, 50Hz					
Circuit breaker		A	16	16	16	30	30	30
Outdoor unit	Model name		AOYA18LALL		AOYA24LALL	AOYA30LBTL	AOYA45LBTL	AOY54LJBYL
Power source			230V~, 50Hz					
Rated current		A	8.3		10.6	11.7	16.7	20.6
Circuit breaker		A	16		16	16	25	32
Dimensions H x W x D		mm	578 x 790 x 300		578 x 790 x 315	830 x 900 x 330	1290 x 900 x 330	1290 x 900 x 330
Weight		kg	40		44	64	98	105
Noise level *1		dBA	39		40	41	40	40
Operation range		°C	-15~24					
Refrigerant			R410A					
Cooling characteristics								
Connection pipe diameter	Liquid	mm	Ø6.35		Ø6.35	Ø9.52	Ø9.52	Ø9.52
	Gas		Ø12.7		Ø15.88	Ø15.88	Ø15.88	Ø15.88
Refrigerant charge		g	1250		1700	2200	3350	3400
Min. / max. length		m	5 / 25		5 / 30	5 / 50	5 / 50	5 / 70
Max. height difference		m	15		20	30	30	30
Max. pipe length (chargeless)		m	15		15	15	20	20
Additional charge amount per 1m		g	20		20	40	50	40

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

Deodoriser

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

Deodorisation capacity

Approx. *150 times*[*1]

that of an air cleaner
(compared to conventional Fujitsu General products)

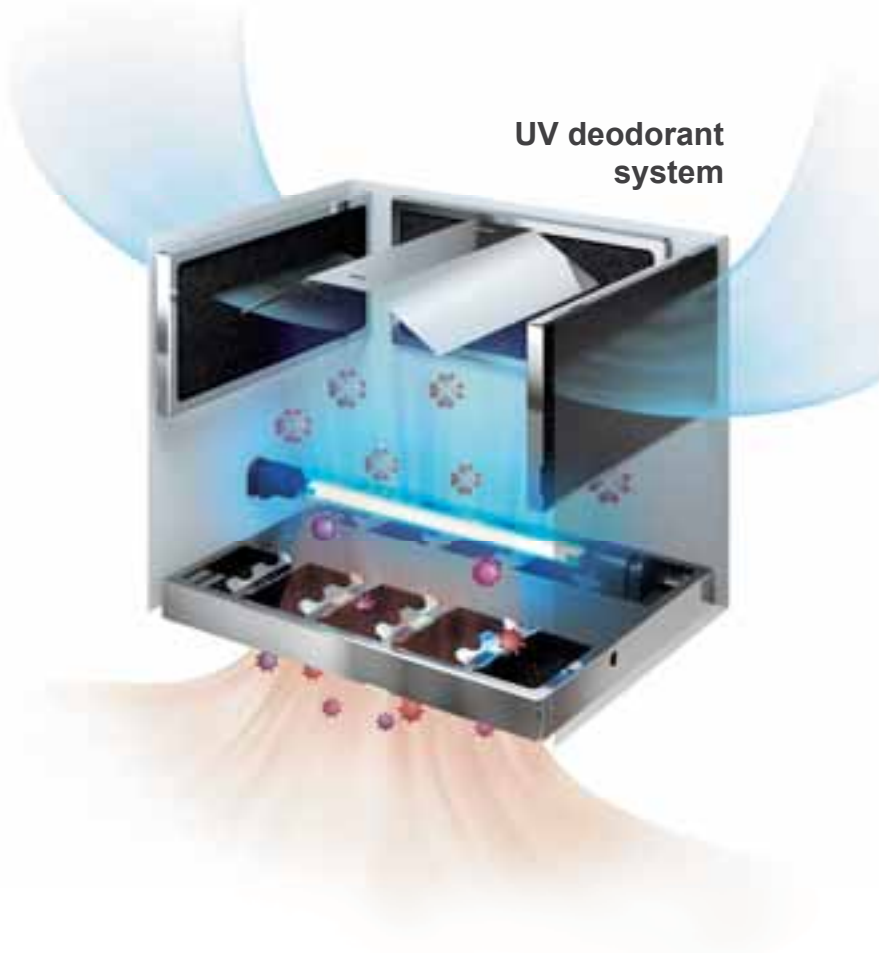
Bacteria elimination power

Removes *99.9%*[*2]
of airborne bacteria

Economical

Filter replacement unnecessary[*3]

*1. 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.
*2. Test organization: Kitasato Research Center of Environmental Sciences. Checked in UV deodorant system.
*3. 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**

THE POSSIBILITIES ARE INFINITE FUJITSU

For Comfortable Life

AIR DEODORISER

Deodoriser

FUJITSU GENERAL LIMITED

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.

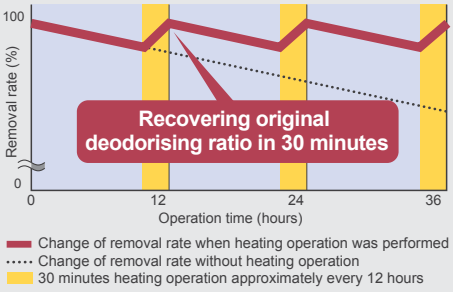
Automatic deodorisation capability regeneration system

WORLD FIRST *1

Deodorisation capability regenerated by heating

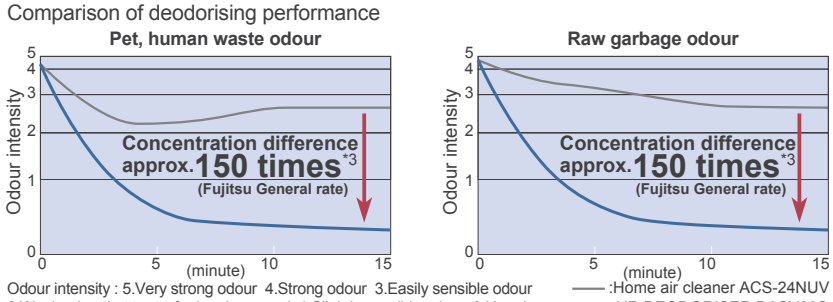
- Oxidation and decomposition capability is promoted by heating the filter for 30 minutes every 12 hours.
- Initial performance is maintained by removing odour molecules clinging to the filter.

Image of filter regeneration by heating operation



High Performance Verification Test Results

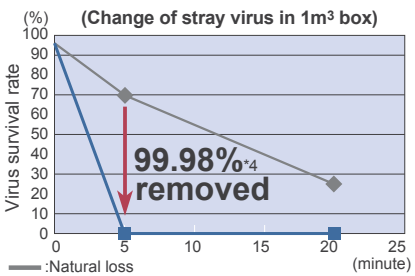
Comparison of deodorising performance



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

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

Virus elimination rate

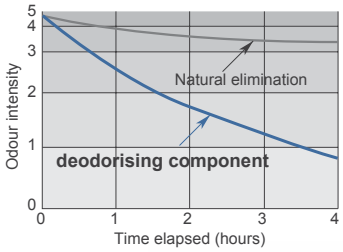


:Natural loss
:AIR DEODORISER DASY30S

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 13.2m²)



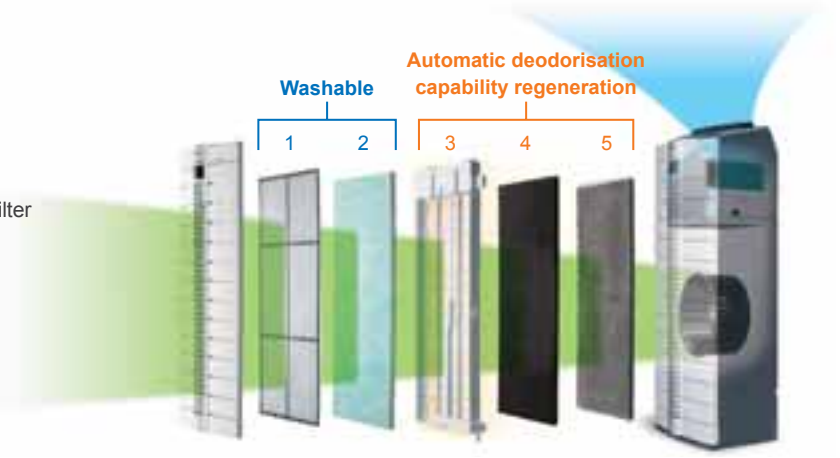
Air cleaning capability

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	m³/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	m³	~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.

2-3-4 Multi rooms
Up to 4 units can be connected to 1 outdoor unit.
Individual controls are available.

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.

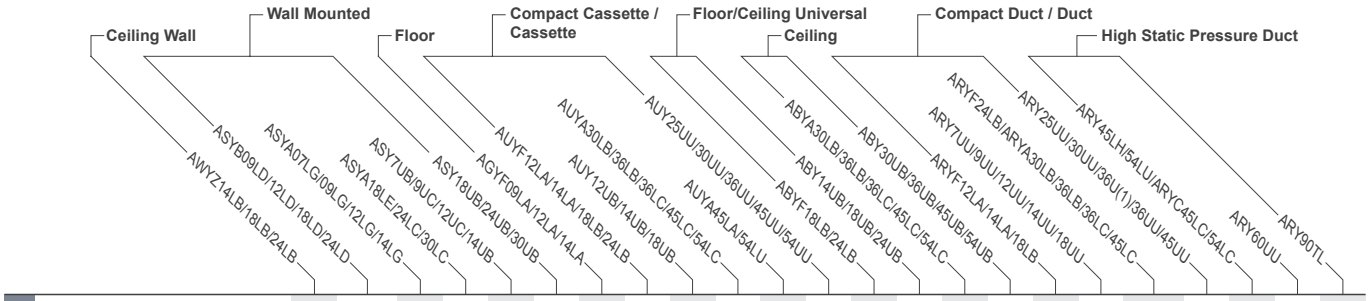
Long-life ion deodorization filter
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

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



Comfortable function	Up / down swing flaps		● (09/12/18)	●		●		●	●	●	●	●	●												
	Double swing automatic	●	● (24)		●		●							●	●	●	●								
	Automatic air flow adjustment	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Auto restart	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Auto-changeover	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	10°C heat operation			●	● (18)			●																	
	Connectable distributing duct									●	●	●	●							●	●				
	Connectable fresh air duct									●	●	●	●	●		●	●			●	●				
	Fresh air intake													○		○		○		○	○	○	○		
	Economy mode	●		●				●	●		●	● (45)		●		●		●		●		● ARYC 45L/54L			
	Energy saving mode											● (54)	●						●		●	● ARY 45L/54L	●		
Convenient function	Sleep timer	●	●	●	●	●	●	●	●	●	○	○ (45)		●	●	●	●	○	○	○					
	On-off timer					● (7/9/12)																			
	Program timer	●	●	●	●	● (14)	●	●	●	●	○	○ (45)		●	●	●	●	○	○	○					
	Weekly timer																								●
	Weekly + setback timer		● (24)		●			●	○		●	●	●	○		○		●	●	●	●	●	●		
	Filter sign								●		●	● (45)		●		●									
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	●	● (12/18/24)	● (07/09)	●			●	●		●			●		● (30/36)		●		● (24/30/36)					
	i-PAM control models		● (09)	● (12)								●				● (45)				● (45)					
	Simultaneous multi								● (18/24)					●				● (18)		● (24)					
	2-3-4 Multi rooms							●	● (12/14/18)					●				●							

○: Optional function

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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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