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**FUJITSU GENERAL LIMITED**  
1116, Suenaga, Takatsu-ku, Kawasaki 213-8502, Japan  
URL : <http://www.fujitsu-general.com>

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**INVERTER**



# **AIRSTAGE**<sup>TM</sup>

**Variable Refrigerant Flow System**  
Multi Air Conditioning System for Buildings

## **The Intelligent Choice in Comfort**

### **J** **SERIES**

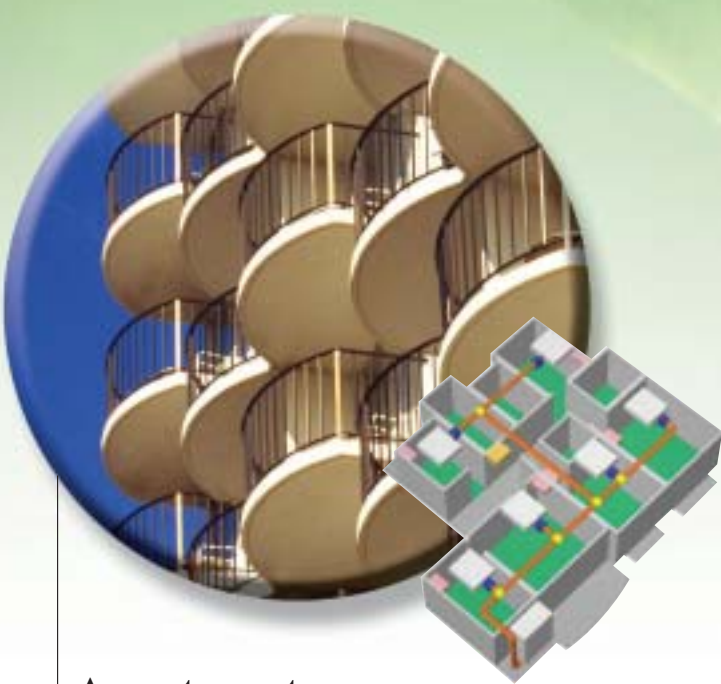


FUJITSU GENERAL LIMITED

# High-performance air conditioning system

The compact VRF System provides economical and comfortable air conditioning for wide range of applications from living space to business space.

## Compact VRF System for use in apartments, homes, shops, offices



### Apartments

The common areas and individual room spaces in apartment blocks have differing air conditioning needs. What is required is an air conditioning system that provides comfortable conditions and is economical and surroundings conscious.





### Homes

Homes need individual air conditioning control for specific rooms that can also be easily switched to standby mode if the occupants have to go out at short notice.


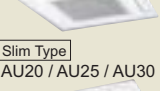





A range which allows an unlimited combination of indoor and outdoor units accord

#### Outdoor units

Heat Pump	R410A	Cooling Only	R410A
			
AJA54L/AO54U		AJA54J/AO54F	
P4, P5			

#### Indoor units

Compact Cassette	Cassette	Compact Duct	Low Static Pressure Duct	Duct
				
AU7 / AU9 / AU12 / AU14 / AU18	<div>Slim Type</div> AU20 / AU25 / AU30 AU36 / AU45 / AU54	AR7 / AR9 AR12 / AR14 / AR18 / AR22	<div>Silent Model</div> ARXB25 / ARXB30	AR25 / AR30 / AR36 / AR45
P14	P15	P16	P17	P17

### Piping material

- Use the correct refrigerant piping and materials for R410A.
- For the pipe wall thickness, see the table below.

Copper pipe outside diameter(Ø)	Ø 6.35	Ø 9.52	Ø 12.70	Ø 15.88	Ø 19.05
Material	Copper JIS H3300 C1220T-O or equivalent <sup>1)</sup>				
Copper pipe <sup>2)</sup> wall thickness (mm)	0.8	0.8	0.8	1.0	1.2

Note: Always observe and follow the necessary local regulations when installing refrigerant piping.

1) Allowable tensile stress  $\geq 33$  (N/mm<sup>2</sup>); 2) Design pressure 4.2MPa.

### Tools

- R410A work requires a number of special tools (※ symbol).
- Since tools used in R22 work cannot be used, provide the tools separately.

Tool name	Process and application	
Pipe cutter	Pipe cutting	Refrigerant piping work
※ Flaring tool	Pipe flaring work	
※ Torque wrench (1/2, 5/8)	Flare nut connection	
Expander	Expansion at pipe connection	
Pipe bender	Pipe bending work	Air tightness test
Nitrogen gas	Pipe interior oxidation prevention	
Welder	Pipe brazing	Air tightness test ~ Refrigerant additional charging
※ Gauge manifold	Vacuum evacuation and refrigerant charging operation check	
※ Charging hose		Vacuum drying
※ Vacuum pump(with adaptor)		
Electronic scale for refrigerant charging		Refrigerant additional charging
Gas leak tester	Gas leakage test	

### Work precautions

**Refrigerant check** Before work, check the refrigerant used and prepare materials matched to the refrigerant.

**Refrigerant piping work** Observe the basics (dry, clean) of refrigerant piping and carry out work so that problems will not occur. Moreover, when performing welding work, seal in nitrogen gas and perform work so that an oxide film is not produced.



**Leak pressure test** Conduct a pressure test sufficiently and make sure there is no refrigerant leakage.

**Vacuum drying** If the vacuum pump does not have a reverse flow check mechanism, use the pump together with a reverse flow check adapter.

**Additional refrigerant** Charge only the amount of R410A refrigerant calculated in the additional refrigerant charge calculation. This refrigerant should only be charged in a liquid form.



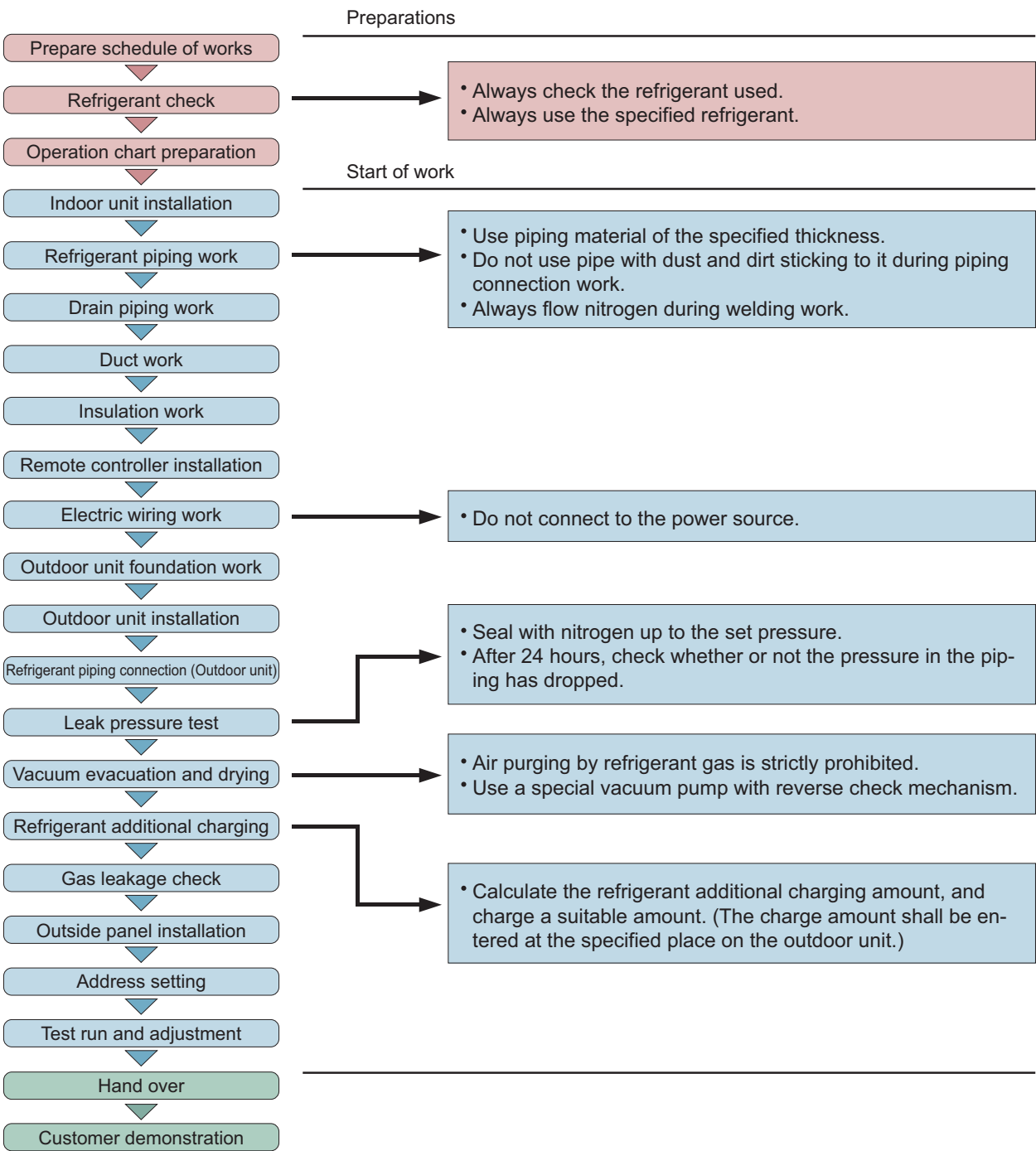
# R410A Work Notes

## R410A

The working pressure of R410A is approximately 1.6 times higher than that of R22.  
As the oil type is also different, be sure not to mix them.

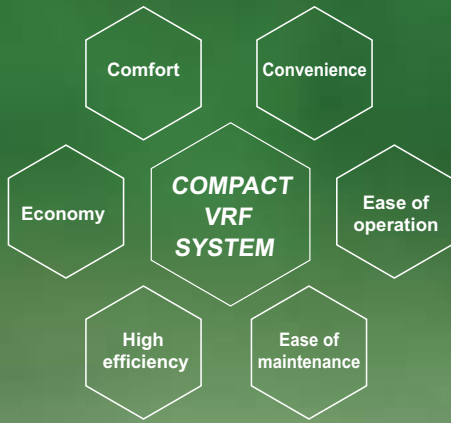
Refrigerant	R410A	R407C	R22
Oil	POE oil	POE oil	Mineral oil
Pressure ratio	Approx. 1.6	Approx. 1.1	1

## Work flow



## A compact VRF System that responds to the needs of each building

Backed by advanced air conditioning technology, this compact VRF System was developed to meet six key requirements: high efficiency, economy, comfort, convenience, ease of operation, and easy maintenance. This VRF System delivers a comfortable and economical environment.



## and a broad range of other applications



### Shops

As shop premises are regularly upgraded and the operating conditions for each can vary so much, large-scale air conditioning management is very difficult. Consequently, a VRF air conditioning system matched to each shop is an ideal solution.

### Offices

The spaces within office premises can all have different air conditioning requirements. Energy saving and economic operation are major issues and what is needed is an air conditioning system which can be accurately matched to each space and centrally controlled.



## ing to the building and application

Remote controller (Option)		Accessories			
Compact Wall Mounted	Wall Mounted	Group Remote Controller *1	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller
AS7 / AS9 / AS12 / AS14	AS18 / AS24 / AS30	UTB-YDB / UTB-GDB	UTB-YUB / UTB-GUB / UTB-TUB	UTB-YPB / UTB-GPB / UTB-TPB	UTB-YRA / UTB-GRA / UTB-TRA
P18	P19	P9	P10	P10	P11
					IR Receiver Unit
					(Duct type only)
					P24

\*1. Network converter (UTR-YGCA) is required, when installing group remote controller.

# High-performance outdoor unit delivering com



**R410A**

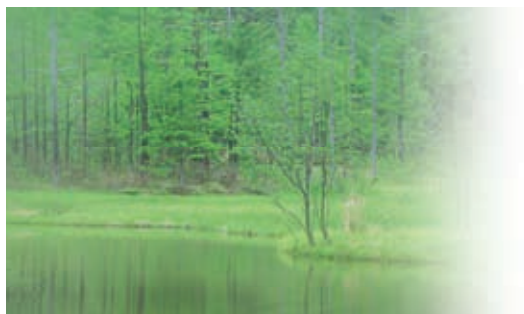
**Heat Pump**

**AJ\*A54LCLR  
AO\*54UJBM**

**Cooling Only**

**AJ\*A54JCLR  
AO\*54FJBM**

※ AJ\*A: AJYA (FUJITSU) AJ\*A: AJGA (GENERAL)  
AO\*: AO (FUJITSU) AO\*: AOG (GENERAL)



## Powerful operation with low electricity consumption

- Excellent COPs are attainable as shown in the table below.

Cooling COP	3.20*
Heating COP	3.40*

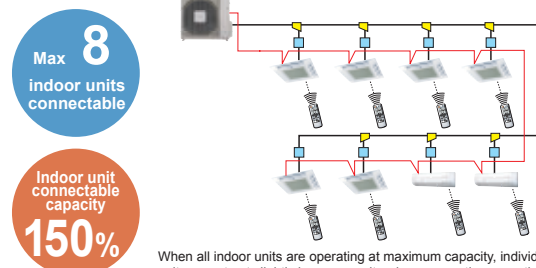
\* "COP" is the coefficient of performance  
(= capacity (kW) ÷ input power (kW)).  
※ COP values are based on our own testing method.

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



## High-capacity connection possible

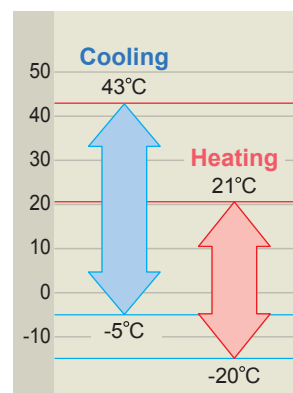
- One outdoor unit can connect to up to 8 indoor units.
- Connectable capacity is 150% of the outdoor unit rating and can cope with a range of operating modes.



When all indoor units are operating at maximum capacity, individual indoor units operate at slightly lower capacity when connecting more than 100%.

## Operating outside air temperature 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.



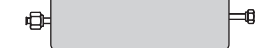
## Optional Parts

### EV kit

**UTR-EV2AXL  
UTR-EV3XL**

- EV kit is available for installation as necessary.

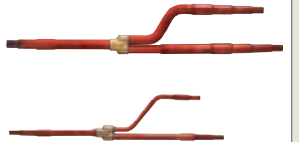
Model code < 30 : UTR-EV2AXL  
Model code ≥ 30 : UTR-EV3XL



### Separation tube

**UTR-BP054X / UTR-BP54U**

- Separation tubes are available for installation as necessary.



### Grille kit

**UTG-UDYD-W  
UTG-UDGD-W**

- Grille for compact cassette type indoor unit.



### Header

**UTR-HD546U**

- Headers are available for installation as necessary.



### Remote sensor unit

**UTD-RS100**

- Thermo sensor for sensing the temperature of an arbitrary place in the room



### Drain pump unit

**UTZ-PX1BBA**

- For compact duct type



### Flange (Square)

**UTD-SF045T**

- For duct type  
205 x 1,063, L=40 (mm)



### Flange (Round)

**UTD-RF204**

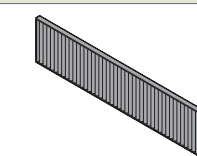
- For duct type  
Ø195 (Ø205), L=85 (mm)



### Long-life filter

**UTD-LF270**

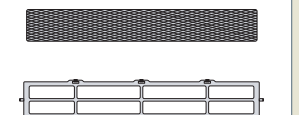
- For duct type



### Air clean filter

**UTR-FA08**

- For wall mounted type
- Air clean filter assembly for initial setting.



### Air clean filter

**UTR-FB03**

- Replacement filter for UTR-FA08



## Accessories

### Wireless remote controller

- Supplied with each indoor unit



### IR receiver unit

- IR receiver unit is connected for each duct type indoor unit.



## Optional Parts

### Group remote controller

#### UTB-YDB / UTB-GDB

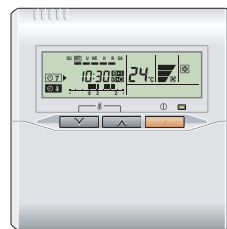
- Up to 8 indoor units can be controlled by a single controller.
- When air conditioner ON/OFF and temperature setting are preset automatically by using a weekly timer, operation can be started and stopped automatically.



### Wired remote controller

#### UTB-YUB / UTB-GUB UTB-TUB

- Wired remote controller capable of controlling each indoor unit individually.
- Can be used together with wireless remote controller.



### Simple remote controller

#### UTB-YRA / UTB-GRA UTB-TRA

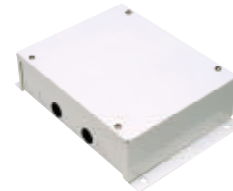
- Concentrates on basic operations such as On/Off, Fan Control and Temperature Setting.



### Network converter

#### UTR-YGCA

- Network converter is required to connect Group Remote Controller to an VRF system.



### Simple remote controller

#### UTB-YPB / UTB-GPB UTB-TPB

- Concentrates on basic operations such as On/Off, Fan Control, Master Control and Temperature Setting.



### External switch controller

#### UTR-YESA

- Switching of the air conditioner can be controlled by connecting other sensor switches.



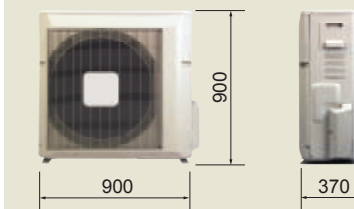
## fort and economy

### Lightweight and compact design

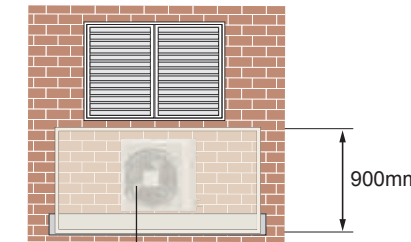
- Small, compact casing can be easily concealed.

#### Dimensions

H900 x W900 x D370mm

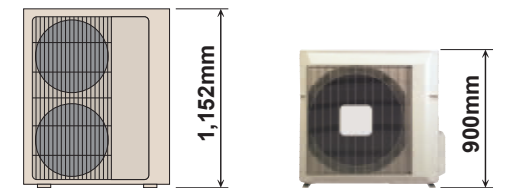


(Unit: mm)



The low overall height allows the unit to be neatly positioned beneath a window.

#### Low height and lightweight design



**120kg**

Conventional type  
15.2kW single type

**97kg**

**AIRSTAGE J**  
15.2kW VRF

### Noise reduction

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

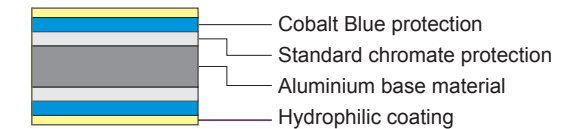
#### Large fan

Low-speed design suppresses noise by using a larger fan.

### Blue fin heat exchanger mounted

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

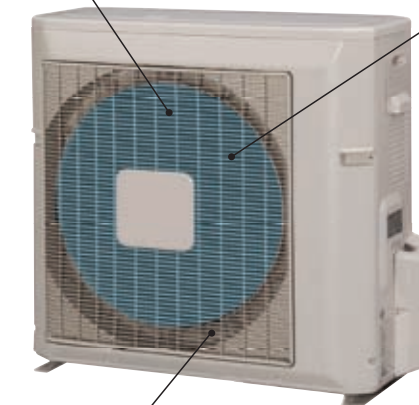
#### Blue fin heat exchanger



\*Cobalt blue protection (Blue Fin) is a standard specification of AJ\*A54LCLR, AJ\*A54JCLR.

#### Double casing bell mouth

Double casing bell mouth helps to reduce noise.





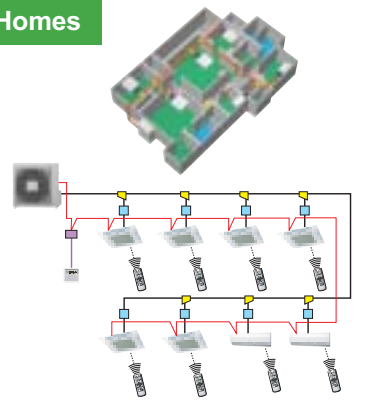
# Compact VRF System allows design flexib

## Flexible design

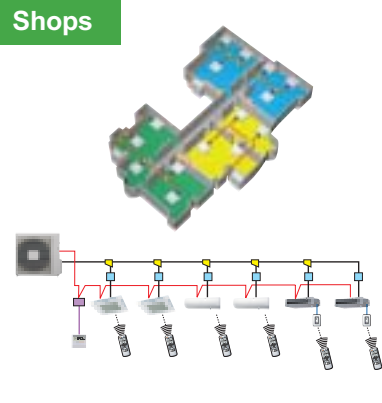
Superior design flexibility allows individual air conditioning of multiple rooms.

System that allows individual air conditioning of multiple rooms

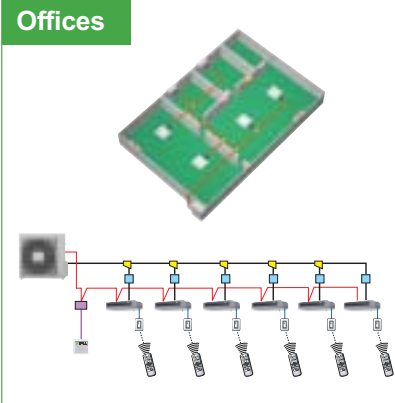
### Homes



### Shops

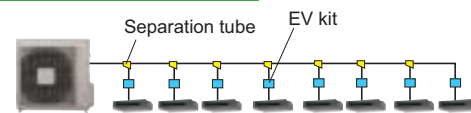


### Offices

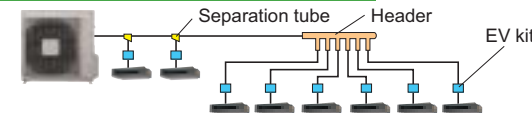


## Piping connection examples

### Separation tube system

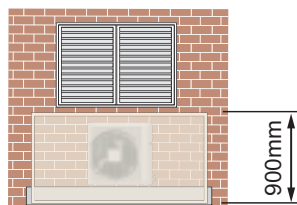


### Separation tube + header system



## Easier outdoor unit installation

- Discreet installation



Height	900
Width	900
Depth	370

Unit: mm

The compact dimensions allow the outdoor unit to be installed below a window.

## Large capacity connectable

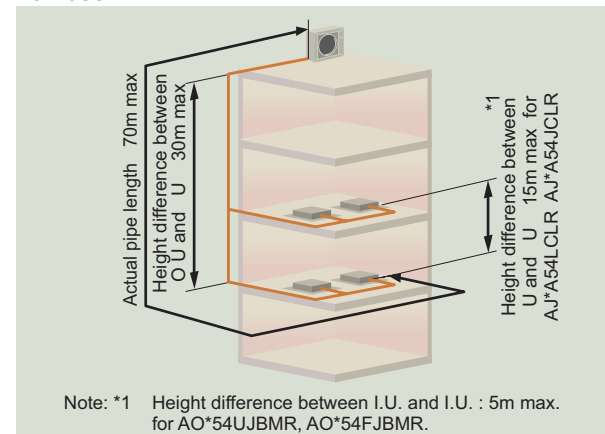
- Up to 8 indoor units can be connected to 1 outdoor unit. Furthermore, the indoor unit connection capacity can be up to 150% of the outdoor unit rating. This increases design flexibility.

**Max 8**  
Indoor units  
connectable

**150%**  
Connectable  
capacity

## Long piping length

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



## All indoor units are supplied with a remote controller

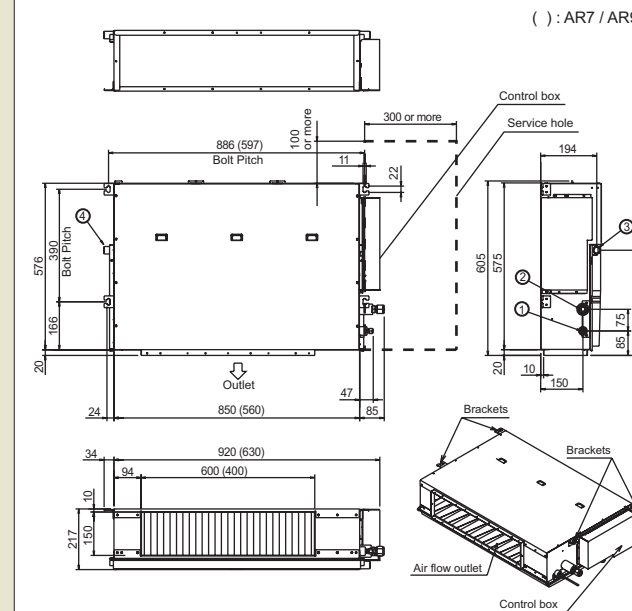
- All indoor units come with a wireless remote controller.

Note: IR receiver unit is available for duct type indoor unit.

### Indoor unit Compact Duct (Unit : mm)

Models: AR7 / AR9 / AR12 / AR14 / AR18 / AR22

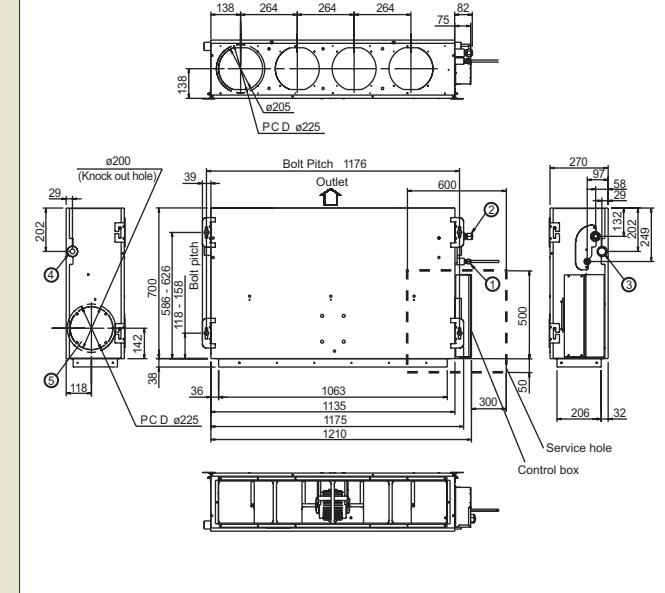
\*Service accessibility must be allowed for when installing the product.  
Please consult the installation manual for the necessary service access size.



### Indoor unit Low Static Pressure Duct / Duct (Unit : mm)

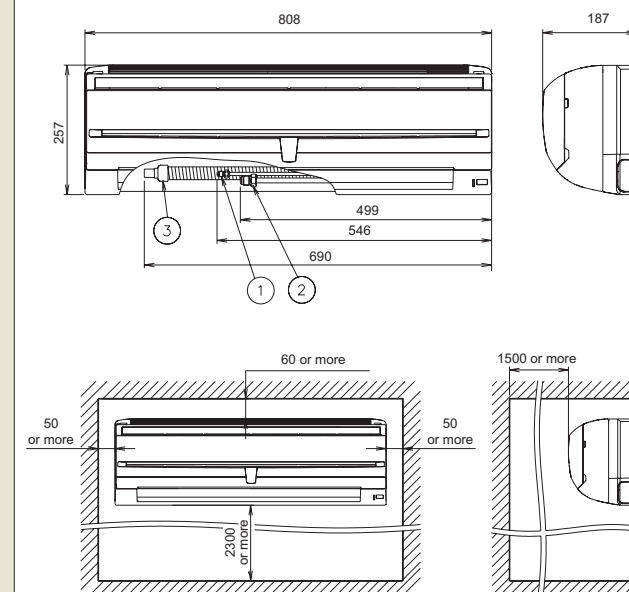
Models: ARXB25 / ARXB30  
AR25 / AR30 / AR36 / AR45

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



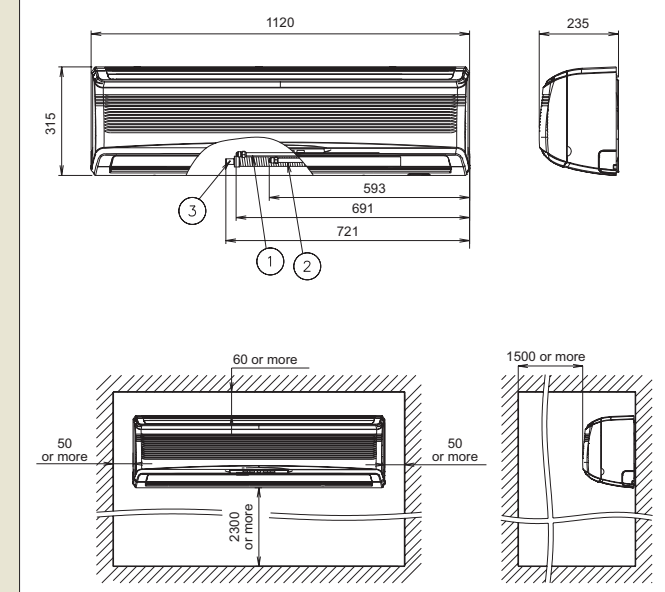
### Indoor unit Compact Wall Mounted (Unit : mm)

Models: AS7 / AS9 / AS12 / AS14

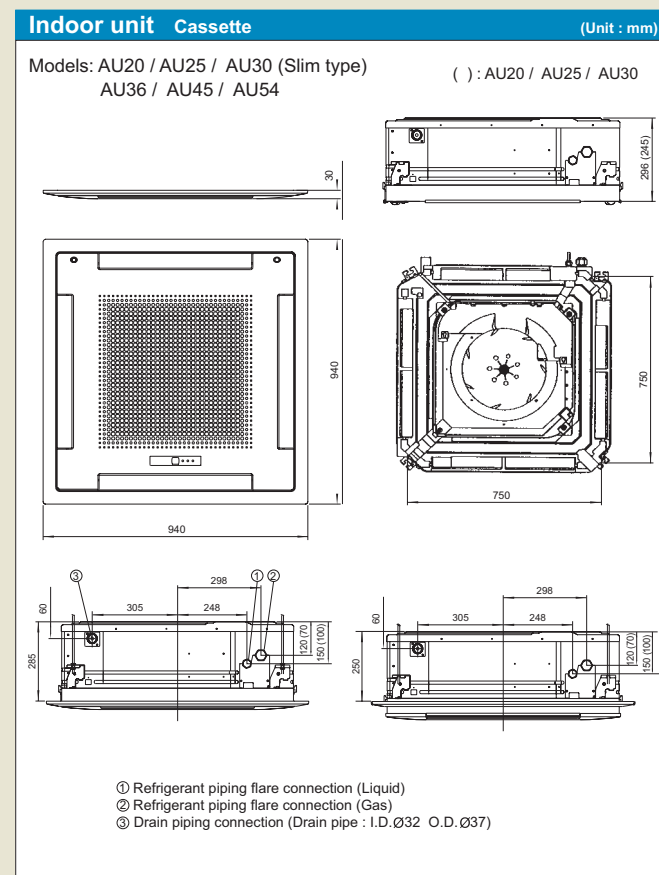
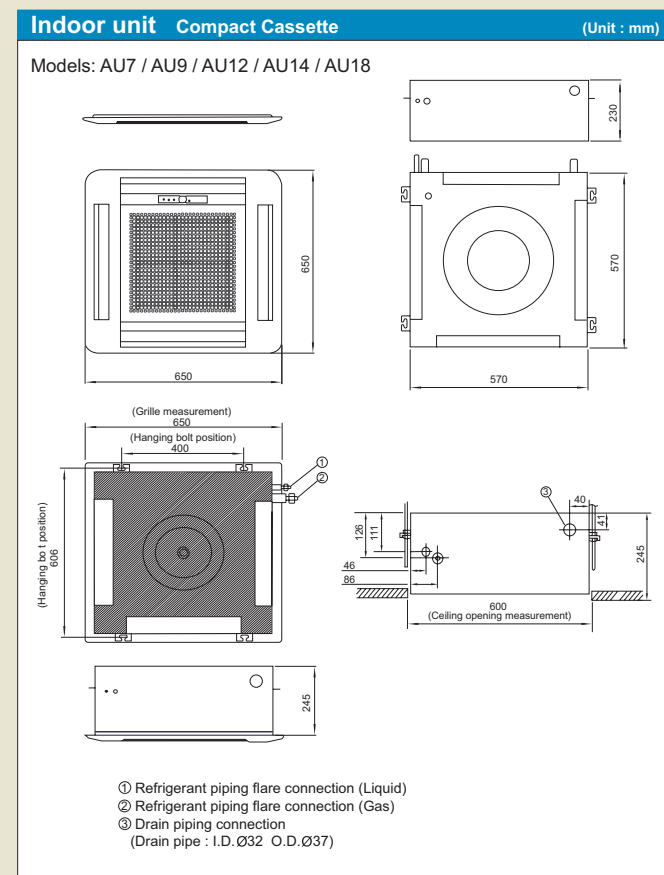
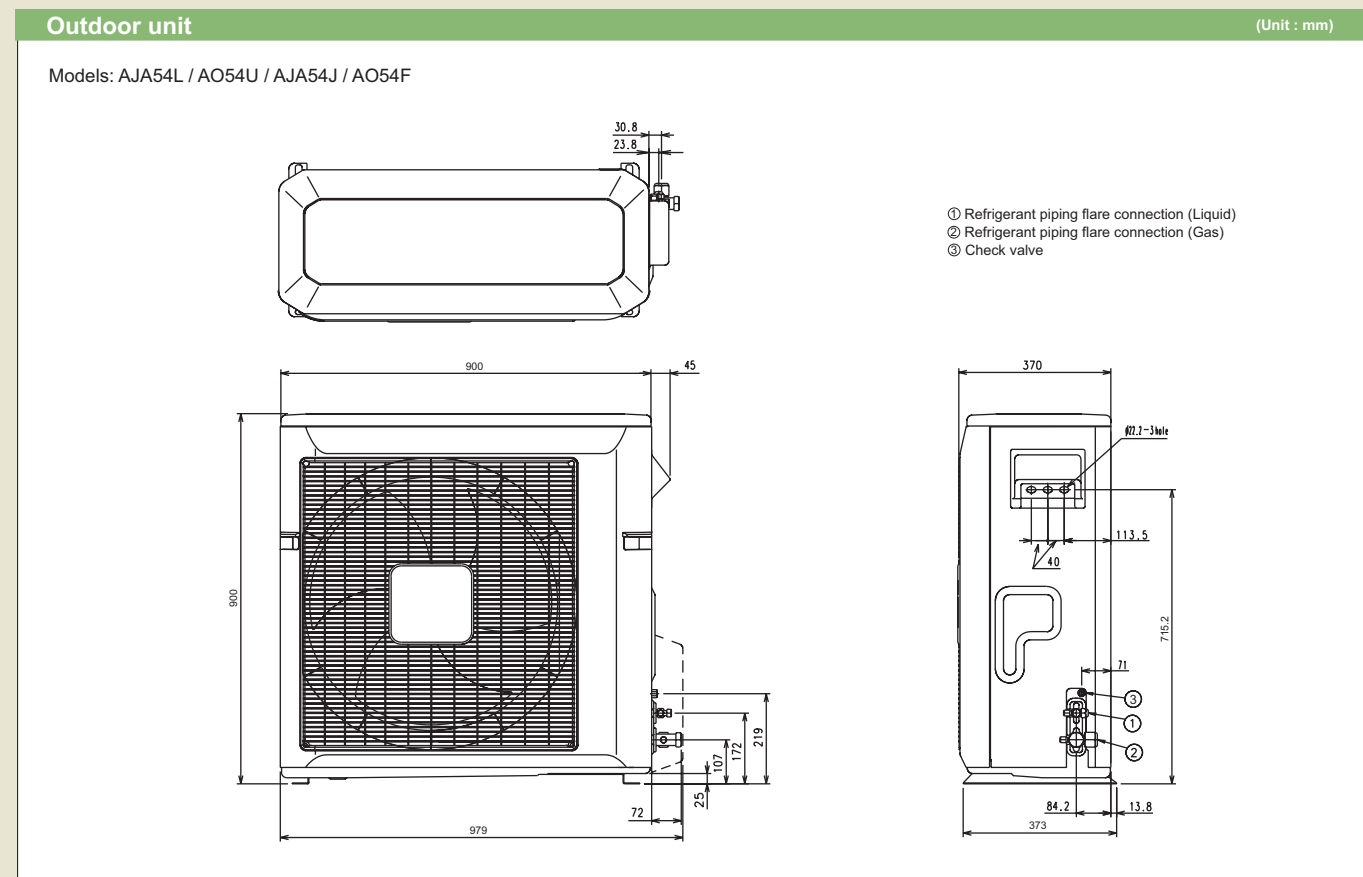


### Indoor unit Wall Mounted (Unit : mm)

Models: AS18 / AS24 / AS30



## Dimensions



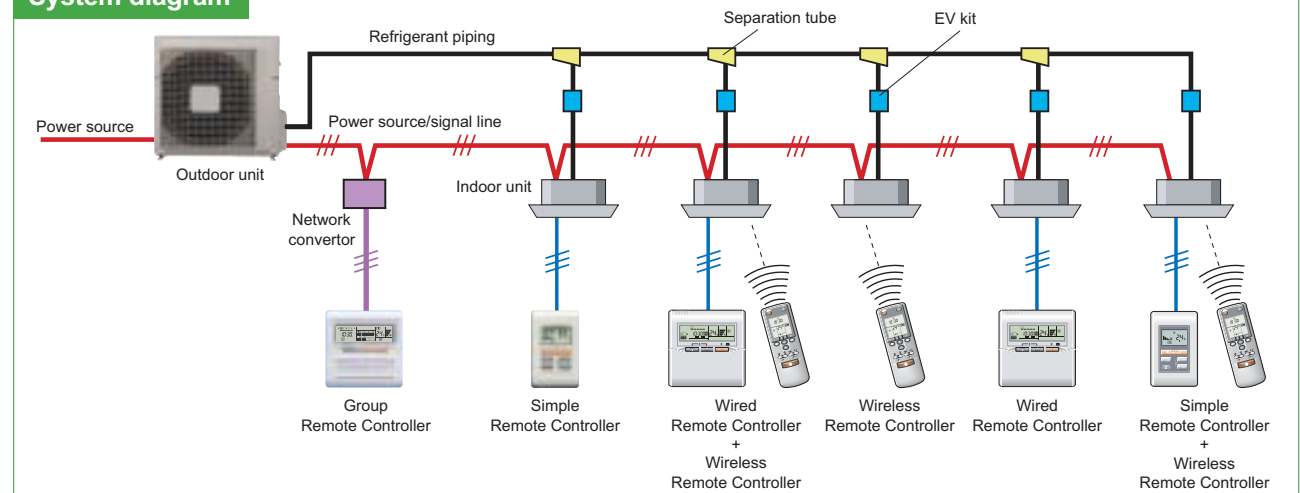
## ility and efficient operation

### Easy installation Quick and easy to install.

#### Easy to understand piping and wiring installation

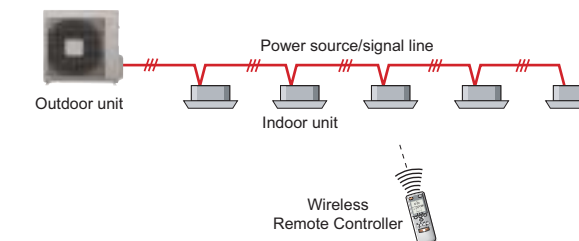
- The wiring work is simple in the connection wiring system one by one.
- The dedicated communication line is unnecessary.
- The electrical work is simple because of single-phase power supply.

#### System diagram



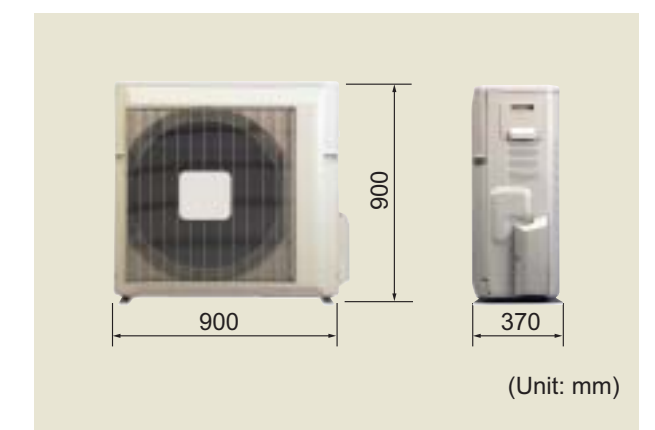
#### System addressing

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



#### Easier installation of the outdoor unit

- Compact size and lightweight



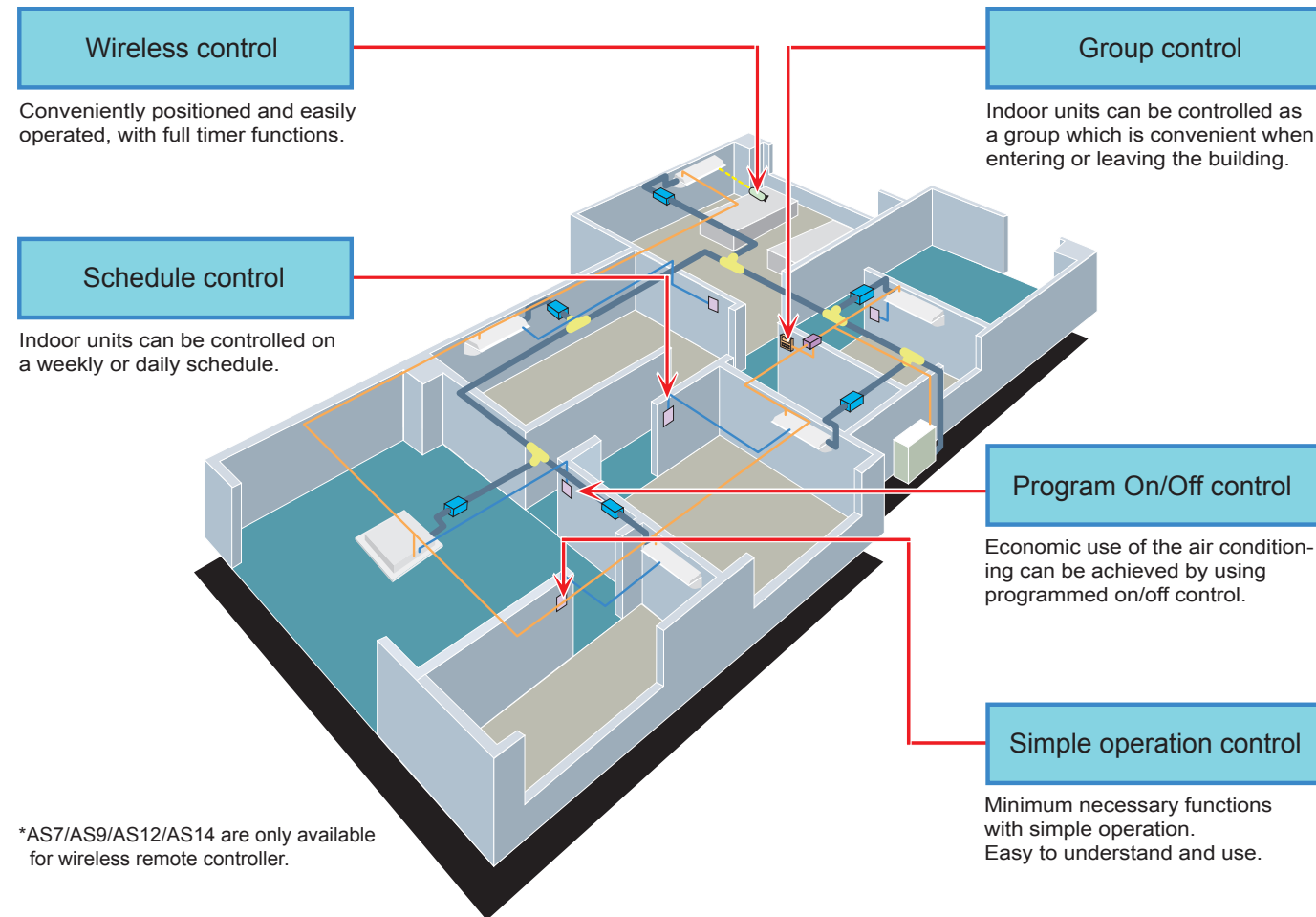
Weight

**97kg**

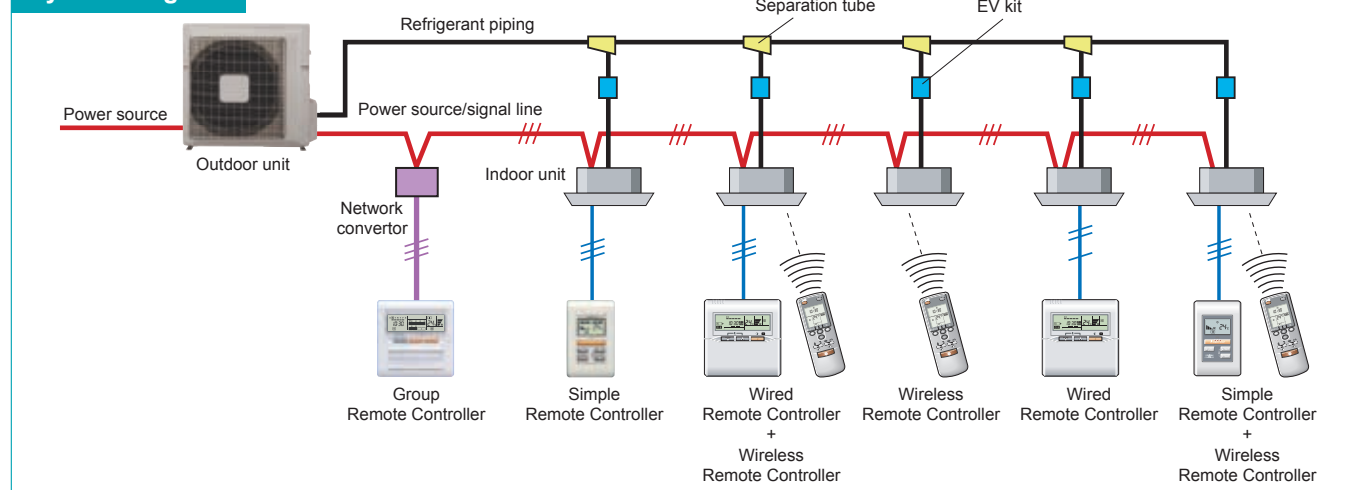
The outdoor units is light and compact and easy to handle during installation.

# Control system that always provides a pleasant air conditioned environment

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



## System diagram



Indoor unit			Compact Duct						Low Static Pressure Duct		Duct				
Model code			AR7	AR9	AR12	AR14	AR18	AR22	ARXB25	ARXB30	AR25	AR30	AR36	AR45	
Model name			ARXA07 LALR	ARXA09 LALR	ARXA12 LALR	ARXA14 LALR	ARXA18 LBLR	ARXA22 LBLR	ARXB25 LATR	ARXB30 LATR	ARY25 UFAAR	ARY30 UFAAR	ARY36 UFAAR	ARY45 UFAAR	
Power source			220-240V, 50Hz												
Cooling capacity	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		
	BTU/h	7,300	9,600	11,900	13,700	18,100	21,100	24,100	30,000	24,100	30,000	36,000	43,500		
Heating capacity	kW	2.45	3.10	4.10	4.80	5.60	6.30	7.85	9.10	7.85	9.10	10.7	13.7		
	BTU/h	8,400	10,600	14,000	16,400	19,100	21,500	26,800	31,000	26,800	31,000	36,500	47,000		
Input power	W	32			49		103		77		155		315		
Current	A	0.20			0.24		0.45		0.36		0.70		0.68		
Maximum current		0.24			0.29		0.54		0.40		0.84		1.84		
Heat exchanger			Plate fin coil												
Air circulation	High	420			620		950		890		1,340		1,200		
	Med	m³ / h		390			550			790			780		
	Low	360			470			620		670		970		1,000	
Recommend static pressure		Pa	0 to 40						0 to 80			30 to 160		30 to 180	
Fan type x number		Sirocco x 1			Sirocco x 2										
Fan motor output		W	10			14		52		36		47		77	
Noise level (sound pressure)	High	34			33		40		42		33			44	
	Med	dB (A)		32			29			35		38		29	
	Low	31			27			30		34		26			40
Air filter			PP monofilament net (Antibacterial / Deodorization)						Filter : UTD-LF270 (Option) PP honeycomb net, Fungicide Type						
Dimensions (H x W x D)	Net	mm	217 x 663 x 595			217 x 953 x 595			270 x 1,210 x 700						
	Gross		324 x 785 x 686			324 x 1,075 x 686			300 x 1,320 x 790						
Weight	Net	kg	18			25			43			45			
	Gross		22			29			53			55			
Pipe size	Diameter	Liquid	mm	Ø 6.35				Ø 6.35		Ø 9.52	Ø 6.35		Ø 9.52		
	Gas	Ø 9.52		Ø 12.70		Ø 15.88						Ø 19.05			
Connection method		Flare													
Drain pipe material	Dia. (mm)	ABS/Outer diameter 26mm / Inner diameter 21.5mm						Steel/Outer diameter 38.1mm / Inner diameter 35.7mm							

Note: Specifications are based on the following conditions.

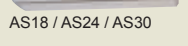
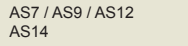
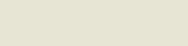
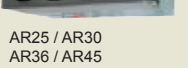
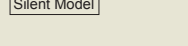
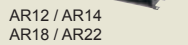
Cooling: Indoor temperature 27°CDB/19°CWB, and outdoor temperature 35°CDB/24°CWB).  
Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature 7°CDB/6°CWB.  
Standard static pressure: 0Pa (AR7 to AR22, ARXB25, ARXB30), 100Pa (AR25 to AR45).  
Voltage: 230 [V]

AS\* : AS (FUJITSU), ASG (GENERAL)

Indoor unit			Compact Wall Mounted				Wall Mounted		
Model code			AS7	AS9	AS12	AS14	AS18	AS24	AS30
Model name			AS*7 UFADR	AS*9 UFADR	AS*12 UFADR	AS*14 UFADR	AS*18 UFAJR	AS*24 UFAJR	AS*30 UFAJR
Power source			220-240V, 50Hz						
Cooling capacity	kW		2.15	2.80	3.50	3.80	5.40	6.90	8.00
	BTU/h		7,400	9,600	11,900	13,000	18,400	23,600	27,300
Heating capacity	kW		2.45	3.10	4.10	4.50	5.60	7.80	8.80
	BTU/h		8,400	10,600	14,000	15,400	19,100	26,600	30,000
Input power	W		26	33	40		38	50	60
Current	A		0.15	0.17	0.21		0.18	0.24	0.28
Maximum current			0.18	0.21	0.24		0.22	0.29	0.34
Heat exchanger			Plate fin coil						
Air circulation	High	m³ / h	410	500	540		840	950	1,050
	Med		370	450	510		700	800	940
	Low		350	410	480		600	670	780
Fan type x number			Cross flow x 1						
Fan motor output			W	13			38		
Noise level (sound pressure)	High	dB (A)	30	36	39		42	45	48
	Med		27	33	37		39	41	45
	Low		26	30	34		35	37	41
Air filter			PP honeycomb (Antibacterial and Mold proofing)				PP monofilament net (Deodorization, Anti-mold)		
Casing color			White				White		
Dimensions (H x W x D)	Net	mm	257 x 808 x 187				320 x 1,120 x 220		
	Gross		270 x 850 x 310				348 x 1,240 x 427		
Weight	Net	kg	8				16		
	Gross		10				22		
Pipe	Diameter	Liquid	Ø 6.35				Ø 9.52		Ø 9.52
		Gas	Ø 9.52		Ø 12.70		Ø 15.88		
	Connection method		Flare						
Drain pipe material		Diameter (mm)	With 620mm drain hose, PVC / Outer diameter 16.2-17mm / Inner diameter 12mm				With 670mm drain hose, PVC / Outer diameter 24mm / Inner diameter 17mm		

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 of 20°CDB/15°CWB, and outdoor temperature 7°CDB/6°CWB.  
Voltage: 230 [V]





## Specifications

AJ\*A : AJYA (FUJITSU), AJ\*A : AJGA (GENERAL)  
AO\* : AO (FUJITSU), AOG (GENERAL)

Outdoor unit							
Model name			AJ*A54LCLR	AJ*A54JCLR	AO*54UJBMR	AO*54FJBMR	
Power source			Single-phase, 220-240V, 50Hz				
Capacity	Cooling	kW	15.2				
	Heating		16.6	—	16.6	—	
Input power	Cooling		4.75				
	Heating		4.88	—	4.88	—	
Maximum current		A	30, 25, 20, 15 (The ranges can be selected by setting DIP switch)				
COP	Cooling	3.20			3.20		
	Heating	3.40			3.40	—	
Heat exchanger fin		Corrosion-resistance (Blue fin)			Hydrophilic coating		
Air circulation		m³ / h	5,250				
Fan type x Number		Propeller x 1					
Fan motor output		W	150				
Noise level (sound pressure)	Normal operation mode	dB(A)	56				
	Silent operation mode		51				
Compressor	Type	Scroll					
	Driving method	DC inverter					
	Motor output	W	3,000				
Refrigerant		R410A					
Refrigerant oil		Synthetic oil (POE oil)					
Casing color		Beige					
Dimensions (H x W x D)	Net	mm	900 x 900 x 370				
	Gross		1,021 x 1,026 x 436				
Weight	Net	kg	97				
	Gross		112				
Safety devices		Fan motor thermal protector, High pressure switch, Low pressure switch, Fuse					
Operation range		Cooling	°C	-5 to 43			
		Heating		-20 to 21	—	-20 to 21	—
Pipe	Diameter	Liquid / Gas	mm	Ø 9.52 / Ø 19.05			
	Max length / Max height difference		m	70 / 30			
	Pipe connection method		Flare				
Connectable indoor units			Maximum 8				
Connectable indoor unit capacity			50% to 150%				

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 of 20°CDB/(15°CWB), and outdoor temperature 7°CDB/6°CWB.  
Voltage: 230 [V]

AU\* : AU (FUJITSU), AUG (GENERAL)

Indoor unit			Compact Cassette					Cassette					
Model code			AU7	AU9	AU12	AU14	AU18	AU20	AU25	AU30	AU36	AU45	AU54
Model name			AU7 UFAAR	AU9 UFAAR	AU12 UFAAR	AU14 UFAAR	AU18 UFAAR	AU*20 UFARR	AU*25 UFARR	AU*30 UFARR	AU*36 UFASR	AU*45 UFASR	AU*54 UFASR
Power source			220-240V, 50Hz										
Cooling capacity	kW		2.15	2.80	3.60	4.00	5.00	5.70	7.05	8.80	10.5	12.7	14.1
	BTU/h		7,400	9,600	12,300	13,700	17,100	19,500	24,100	30,000	35,800	43,400	48,100
Heating capacity	kW		2.45	3.10	4.10	4.50	5.45	5.80	7.85	9.10	10.7	13.7	15.8
	BTU/h		8,400	10,600	14,000	15,400	18,600	19,800	26,800	31,100	36,500	46,800	53,900
Input power	W		28		52		50	117	129	142	175	190	219
Current	A		0.13		0.23		0.22	0.76	0.80	0.84	0.92	0.94	0.95
Maximum current			0.15		0.27		0.26	0.91	0.96	1.00	1.10	1.12	1.14
Heat exchanger			Plate fin coil										
Air circulation	High	m³ / h	530		580		640	1,030	1,170	1,270	1,500	1,650	1,780
	Med		480		520		540	850	970	1,070	1,300	1,450	1,550
	Low		410		460		470	680	770	880	1,100	1,200	1,300
Fan type x number			Turbo x 1										
Fan motor output		W	9		10		15	42		90			
Noise level (sound pressure)	High	dB (A)	38		41		44	42		45	48	49	52
	Med		35		37		38		40	42	44	47	49
	Low		31		34		35	37	39	39	41	43	45
Air filter			PP honeycomb net (Anti-mold)										
FUJITSU grille color			White (UTG-UDYD-W : Option)					White					
GENERAL grille color			White (UTG-UDGD-W : Option)										
Dimensions (H x W x D)	Net	mm	230 x 570 x 570					246 x 830 x 830		296 x 830 x 830			
	Gross		280 x 710 x 750					385 x 1,045 x 1,015		435 x 1,045 x 1,015			
Weight	Net	kg	18					34		40			
	Gross		23					45		53			
Pipe size	Diameter	Liquid	Ø 6.35					Ø 15.88		Ø 9.52			
		Gas											Ø 9.52
	Connection method		Flare										
Drain pipe material		Dia. (mm)	PS / Outer diameter 37mm / Inner diameter 32mm					ABS / Outer diameter 37mm / Inner diameter 32mm					

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 of 20°CDB/(15°CWB), and outdoor temperature 7°CDB/6°CWB.  
Voltage: 230 [V]



AJ\*A54L  
AO\*54U



AJ\*A54J  
AO\*54F



AU7 / AU9 / AU12  
AU14 / AU18



AU20 / AU25 / AU30  
AU36 / AU45 / AU54

## Group remote controller which can operate all the indoor units

### Group Remote Controller

UTB-YDB / UTB-GDB [Option]

#### Group control of indoor units with simple operation

- Up to 8 indoor units can be controlled with a single controller.
- Network Converter (UTR-YGCA) is required to connect Group Remote Controllers to an VRF system.



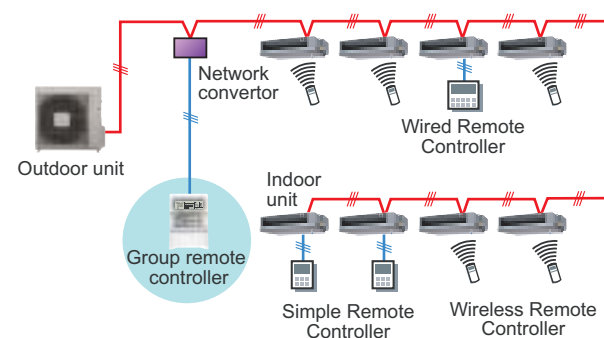
#### High performance and compact size

ON/OFF, master control, set temperature and air flow can be controlled / monitored centrally or individually.



#### System configuration

Group/individual control of up to 8 units is possible with a single controller.

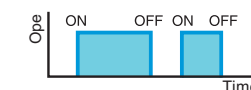


#### Built-in weekly timers

The weekly timer is provided as a standard function.

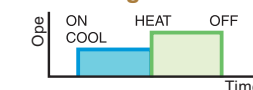
- The timer can be set up for up to 4 times per day. (On / Off, master control, set temperature)
- Allows separate settings for each day of the week.

##### ON/OFF switching



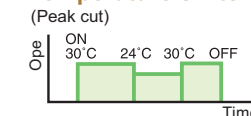
Air conditioning ON/OFF setting corresponding to air conditioning specification needs is possible.

##### Cooling / Heating switching

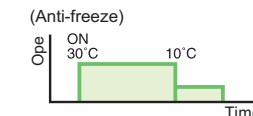


Switching between the cooling mode and heating mode can be set by time.

##### Temperature switching

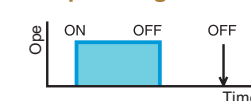


Since peak power cut is performed in a planned way, setting which changes the room temperature linked with time is possible.



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

##### Stop setting



Indoor unit start/stop matched to the air conditioning operation end time is possible.

#### Specifications

Model	Group Remote Controller		Network Converter
	UTB-YDB/UTB-GDB		UTR-YGCA [Option]
Power Supply	DC 12V		220-240V 50-60Hz
Dimension (mm)	Height	120	86
	Width	120	313
	Depth	17	216
Weight (g)	200		1,900

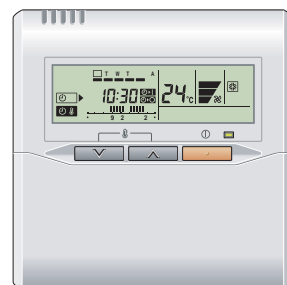
# A controller can be chosen according to user comfortable, easily adjustable air flow

## Wired Remote Controller

UTB-YUB / UTB-GUB / UTB-TUB [Option]

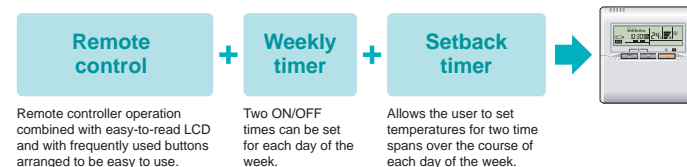
Weekly timer and timer function are easily operated.

Dimensions (H x W x D) 120 x 120 x 17



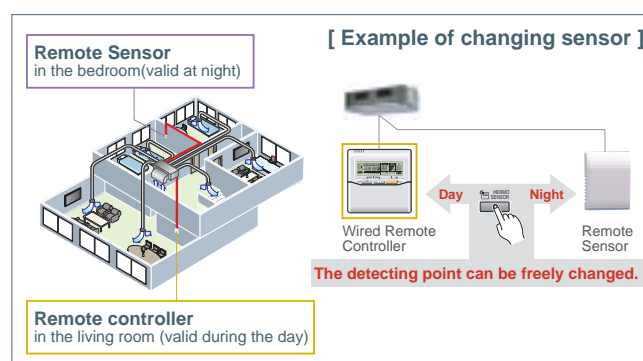
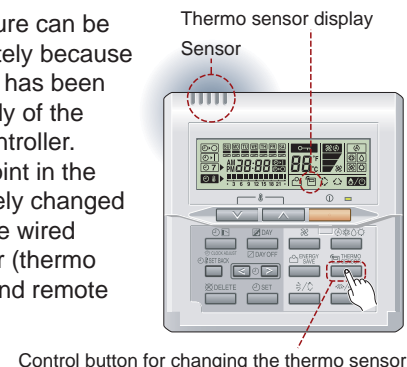
### Powerful features and compact size

Wired remote controller, Weekly timer and Setback timer functions are combined in one compact unit.



### Accurate and Comfortable

Indoor temperature can be detected accurately because a thermo sensor has been added in the body of the wired remote controller. The detecting point in the room can be freely changed with the new type wired remote controller (thermo sensor added) and remote sensor (Option).

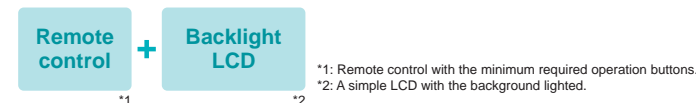


## Simple Remote Controller

UTB-YPB / UTB-GPB / UTB-TPB [Option]  
UTB-YRA / UTB-GRA / UTB-TRA [Option]

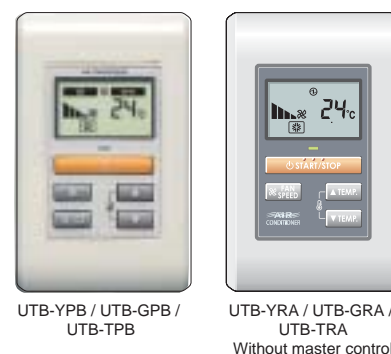
Simple remote controller concentrating on basic operations.

Dimensions (H x W x D mm) 120 x 75 x 14



### Simple operation

- A large Start/Stop button is provided in the centre of the remote controller unit for easy operation.
- The backlight is lit during button operations, and for 10 seconds longer in the operation mode and 5 seconds longer in the stop mode.



Functions			
Model		UTB-YPB UTB-GPB UTB-TPB	UTB-YRA UTB-GRA UTB-TRA
Operation			
On/Off		●	●
Fan control		●	●
Master control		●	—
Temp. setting		●	●

## Wall Mounted

AS\*18UFAJR AS\*24UFAJR AS\*30UFAJR

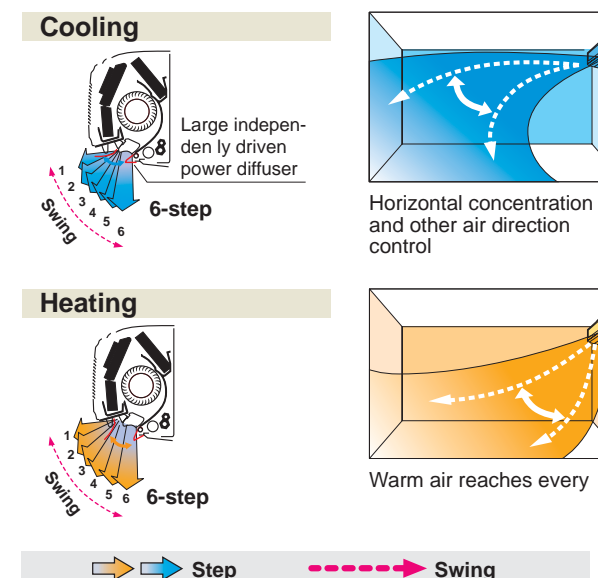


### Features

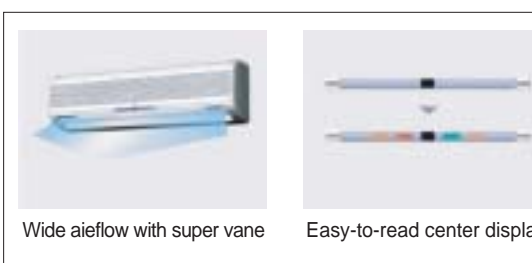
#### Pleasant multi-air flow

Effective air flow within a room is achieved by the unique operation of the power diffuser. The angle of the louvre can be adjusted in six steps to give draught-free air flow.

Wide air flow realized by unique operation of the power diffuser



#### Symmetrical design



#### Other functions

Other features include the functions of the existing wall mounted type.

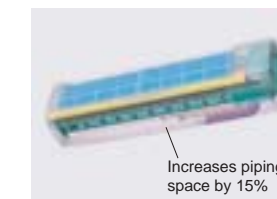
- 2-way draining route
- Double auto swing

#### Optional parts

Air clean filter (UTR-FA08)

#### Easy installation

Larger space at base of housing means an extra 15% of piping space.





# Attractive wall-mounted unit that delivers a needs

## Compact Wall Mounted

AS\*7UFADR AS\*9UFADR AS\*12UFADR AS\*14UFADR



### Features

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

#### Symmetrical design

Symmetrical, clean design that suits all interiors.

#### Compact size

##### 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 centre mounted configuration and a Lambda type heat exchanger to provide plenty of power.

Height	257
Width	808
Depth	187

Unit: mm



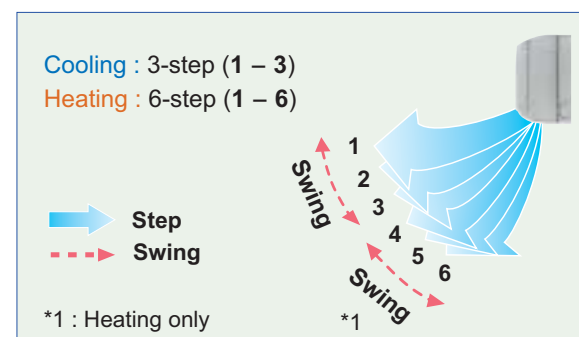
#### Low noise

Fan speed	dB (A)
HIGH	30
LOW	26

\*AS7 model data

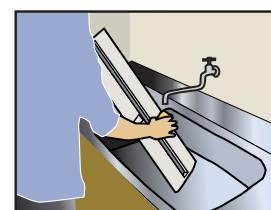
#### Auto swing louvre

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

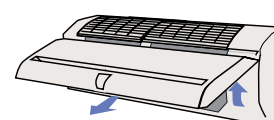
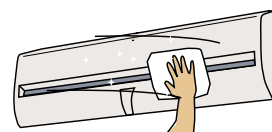


#### Washable open panel

Cleaning the washable panel removes mould and dust.



A regular wipe with a dry cloth keeps the casing clean.



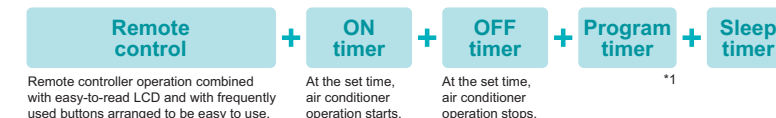
Since the panel is removed and easily washed, it is always clean. Filter cleaning is also simple.

## Wireless Remote Controller [Accessory]

### Four kinds of timers. Easy operation.

- Wireless remote controller is an accessory of all indoor units.
- An IR Receiver Unit necessary for operation by accessory wireless remote controller is connected to Duct type indoor unit.

Dimensions (H x W x D mm) 158 x 56 x 20



### Built-in daily timer

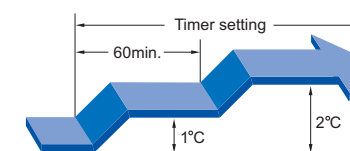
Select from 4 different timer programs : On / Off / Program / Sleep

\*1: Program timer / The program timer operates the ON and OFF timer once within a 24 hour period.

\*2: Sleep timer / The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

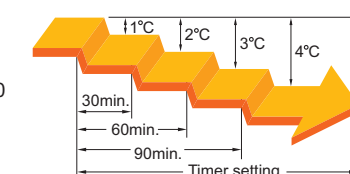
#### Cooling operation / dry operation

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

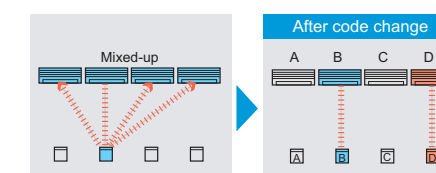


#### Heating operation

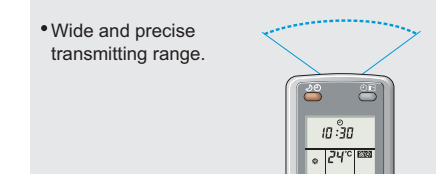
When the sleep timer is set, the set temperature automatically drops 1°C every 30 minutes. The set temperature can drop to a maximum of 4°C.



### Simple operation



- Code selector switch prevents units from being wrongly switched. (Up to 4 codes can be set.)



## External Switch Controller

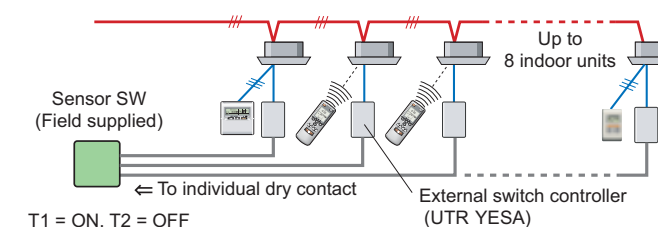
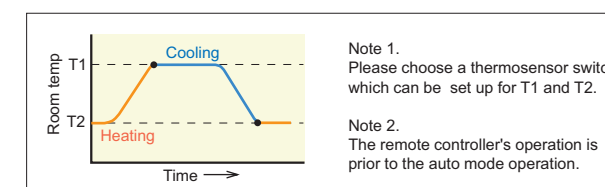
### UTR-YESA [Option]

- On/Off, Temperature, Fan control, and Master control can be switched in combination equipped with the Card key switch or sensor switch.
  - Switching of the air conditioner can be controlled by connecting other sensor switches.
- \*Card key and other sensor switches are available as field supplied parts.

Dimensions (H x W x D mm) 120 x 75 x 30







### Installation example

- Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and external switch controller. In that case, all indoor units run in the same operation mode.



# Select to match the capacity and type of the room very low ceilings

**Indoor unit line up** 7 types 30 models, ranging from 2.15kW to 14.10kW.

Capacity range (kW)▶	2.15	2.8	3.6	4.0	5.3	5.7
Type Model code▶	7	9	12	14	18	20
<b>Compact Cassette</b> P14	 AU7UFAAR	 AU9UFAAR	 AU12UFAAR	 AU14UFAAR	 AU18UFAAR	
<b>Cassette</b> P15						 AU*20UFARR <small>Slim Type</small>
<b>Compact Duct</b> P16	 ARXA07LALR	 ARXA09LALR	 ARXA12LALR	 ARXA14LALR	 ARXA18LALR	
<b>Low Static Pressure Duct</b> P17 <small>Silent Model</small>						
<b>Duct</b> P17						
<b>Compact Wall Mounted</b> P18	 AS*7UFADR	 AS*9UFADR	 AS*12UFADR	 AS*14UFADR		
<b>Wall Mounted</b> P19					 AS*18UFAJR	

•AU\*: AUY(FUJITSU), AUG(GENERAL) •AS\*: ASY(FUJITSU), ASG(GENERAL)

## Low Static Pressure Duct Silent Model

ARXB25LATR ARXB30LATR

## Duct

AR25UFAAR AR30UFAAR  
AR36UFAAR AR45UFAAR

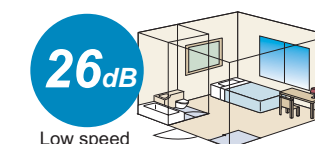


\*Wireless remote controller and IR receiver unit is supplied with all duct type indoor units.

### Features

#### Low static pressure duct type

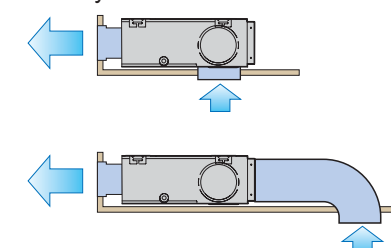
##### ■ Optimum model for hotels or bedrooms



An ultra low-noise model that achieves a quiet interior. Perfect for hotels or bedrooms with limited air duct installation space.

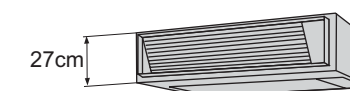
##### ■ Installation styles

Direct air flow installation can be performed. Air intake system can also be chosen.

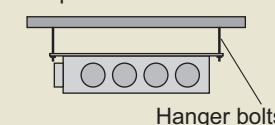


#### Savings in space and easy installation

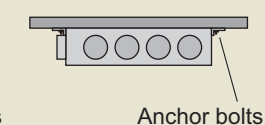
Slim compact design allows for easy installation in narrow ceiling space.



##### Suspended Installation



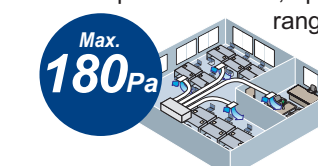
##### Direct Installation



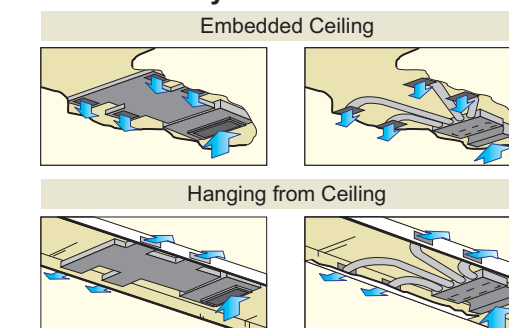
#### Duct type

##### ■ Powerful model with a flexible design

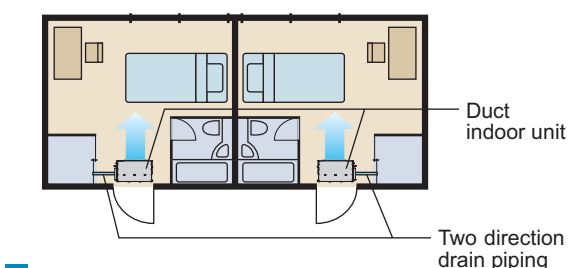
With a powerful motor, appropriate for a wide range of static pressure. Flexible air duct installation is possible in a large space such as an office.



##### ■ Installation styles



#### Two-direction drain piping



#### Optional parts

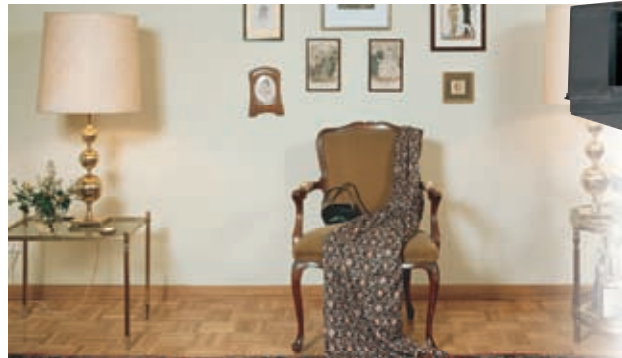
Flange (square)	UTD-SF045T
Flange (round)	UTD-RF204
Long-life filter	UTD-LF270
Remote sensor unit	UTD-RS100



## Ultra-slim duct air conditioner for use with

## Compact Duct

ARXA07LALR ARXA09LALR ARXA12LALR  
ARXA14LALR ARXA18LALR ARXA22LALR



Wireless Remote Controller

IR Receiver Unit

\*Wireless remote controller and IR receiver unit is supplied with all duct type indoor units.

## Features

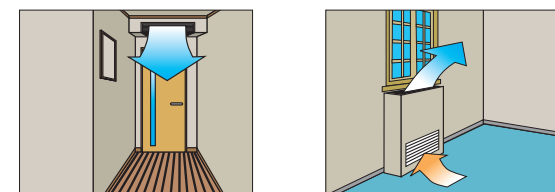
### Compact and space-saving design

Ultra-slim unit simplifies installation.



## Easy installation (Universal type)

Slim and compact dimensions allow for ceiling installation or floor standing.



Perfectly housed in ceiling space.

Perfectly housed in the space below a window.

## Installation example



## Optional parts

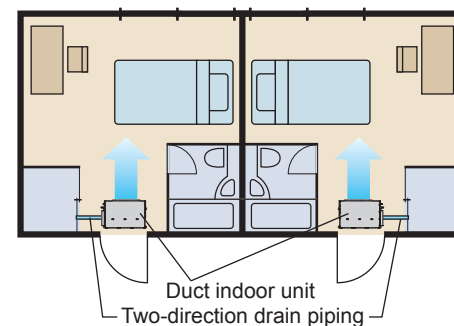
Remote sensor unit UTD-RS100  
Drain pump unit UTZ-PX1BBA

## Low noise level

These compact duct type units are extremely quiet.

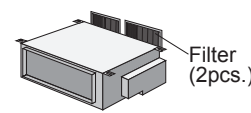
Model		7	9	12	14	18	22
Static pressure (standard/max)	Pa	0 / 40					
Air flow volume (high/low)	m³/h	420/360		620/470		950/620	890/670
Noise level (Low speed)	dB(A)	31		27		30	34

## Two-direction drain piping

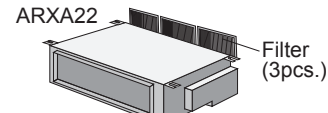


### Filter (Accessory)

ARXA07 / ARXA09



























ARXA12 / ARXA14 / ARXA18 /  
ARXA22 



## Others

- Air intake from rear or bottom side
- Two direction drain piping

## Accessories

6.0	6.9	7.05	8.8	10.5	12.7	14.1	Wireless Remote Controller	IR Receiver Unit
22	24	25	30	36	45	54		
								
		 AU*25UFARR	 AU*30UFARR	 AU*36UFASR	 AU*45UFASR	 AU*54UFASR		
 ARXA22LBLR								
		 ARXB25LATR	 ARXB30LATR					
		 AR25UFAAR	 AR30UFAAR	 AR36UFAAR	 AR45UFAAR			
								
	 AS*24UFAJR		 AS*30UFAJR					

# Slim and compact cassette, designed for limited ceiling space

## Compact Cassette

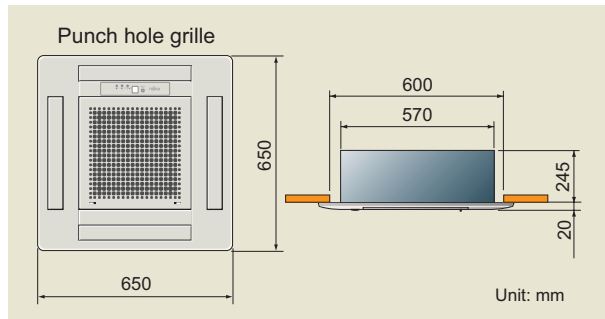
AU7UFAAR AU9UFAAR AU12UFAAR  
AU14UFAAR AU18UFAAR



### Features

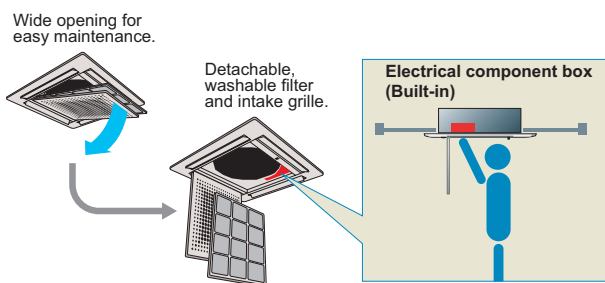
#### Compact size

Compact grille fits European ceiling panel (600mm x 600 mm).

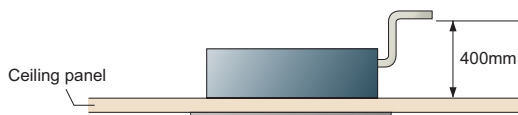


#### Easy maintenance

Placing all the electrical components inside the unit ensures easy maintenance.

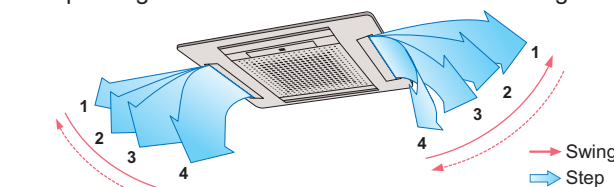


#### Condensate pump lifts to 400mm



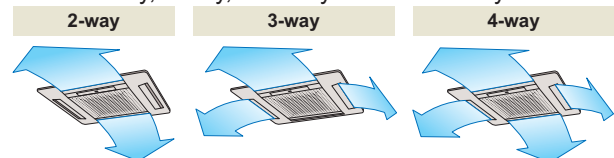
#### Comfortable air flow

4-step swing: Auto air flow direction and auto swing



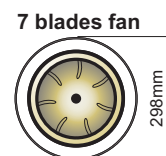
#### 2-4 way air flow system:

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



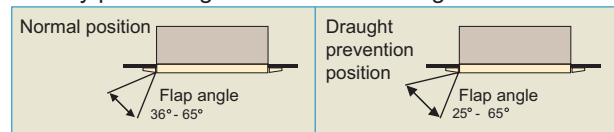
#### Extremely quiet

Large air flow at reduced noise output achieved by incorporating a large diameter variable pitch turbo fan.



#### Draught prevention

The angle of the flap can be changed during installation, thereby preventing uncomfortable draughts.



#### Optional parts

Grille kit UTG-UDYD-W, UTG-UDGD-W

## Cassette Slim Type

AU\*20UFARR AU\*25UFARR AU\*30UFARR

## Cassette

AU\*36UFASR AU\*45UFASR  
AU\*54UFASR



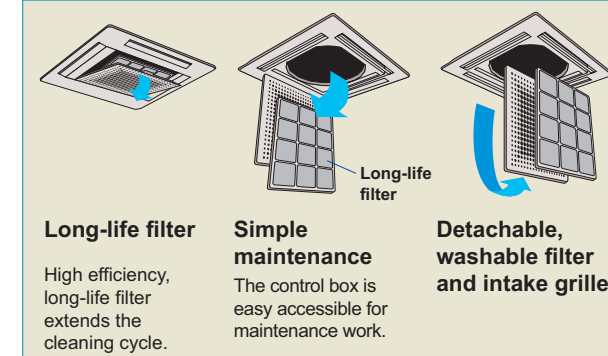
### Features

#### Flexible installation

Compact body ensures space saving installation. A slender fit option is available where ceiling void space is limited.

	Standard setting	Slender setting
	Ha	Hb
AU20 / AU25 / AU30	235	200
AU36 / AU45 / AU54	285	250

#### Easy maintenance



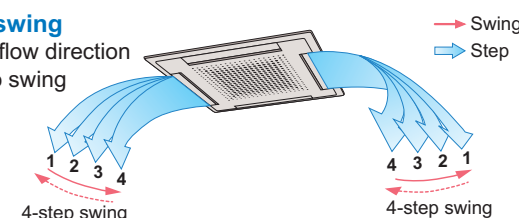
#### Condensate pump lifts to 800mm



### Comfortable air flow

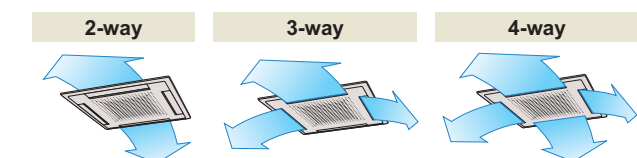
#### 4-step swing

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.

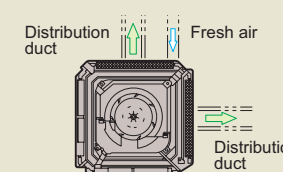


#### Wide air flow

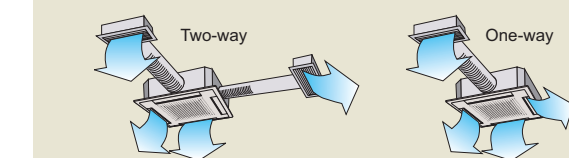
Unit louvre distributes the outlet air flow further in the horizontal direction.

### Duct connection hole opening

Fresh air can be introduced through this opening.



Conditioned air can be distributed by means of a distribution duct.



### Improved noise level and air distribution

Noise output has been dramatically lowered.

- Improved turbo fan shape (aerodynamic design)
- Expanded air distribution
- Low internal resistance
- Moulded fan motor

#### Draught prevention

The angle of the flap can be changed during installation, thereby preventing uncomfortable draughts.

