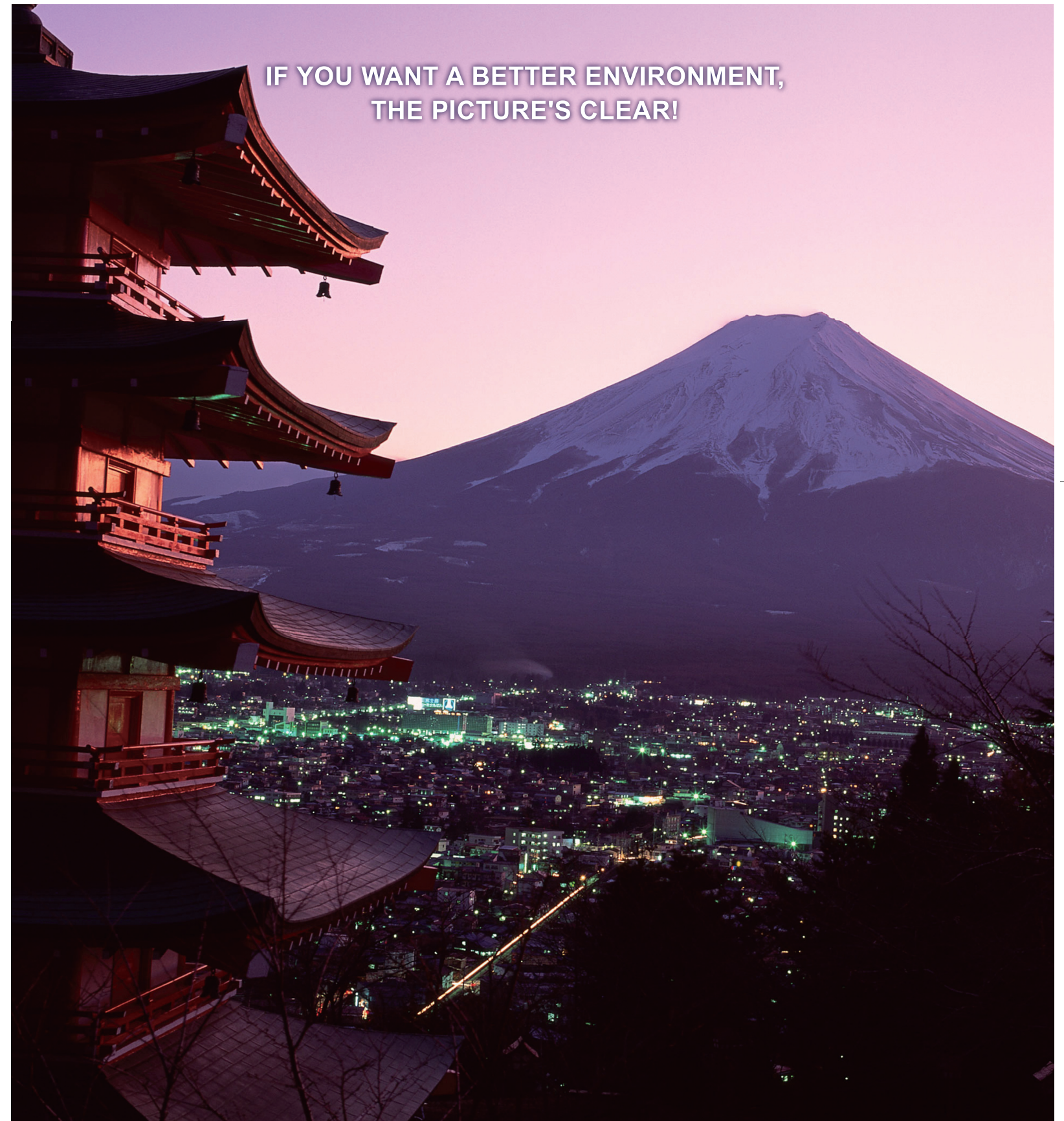


**FUJI**  
ELECTRIC

SPLIT & WINDOW TYPE  
AIR CONDITIONERS



Manufacturer:  
**Fuji Denki Sosetsu Co.,Ltd.**  
Tokyo, Japan

Distributor:

**Fuji Denki Sosetsu Co.,Ltd.**

3J07500802E Printed in Japan

# Energy saving & Ecology

Deepening environmental, resources and global warming problems. As a global enterprise, Fujitsu General group recognizes that contributing to development of a sustainable economic society is today's most important management topic, and is engaged in a series of environmental protection activities reaching up to sales, maintenance, and recycling, and is aggressively making its products more energy saving.

## CLASS A CLASS **A**

### Energy-Efficiency Classifications

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

Energy Label

**The product**  
Air-conditioner

**The model number**  
Fujitsu Denki Sanyo Co., Ltd.  
RO-\*\*\*  
RS-\*\*\*

**The class**  
An energy efficiency class in seven steps, from A to G.

**Annual energy consumption**  
The annual energy consumption is calculated by multiplying the total power input by an average of 500 hours per year in cooling mode at full load.

**The Energy Efficiency Ratio**  
The higher the EER, the greater the energy efficiency.

**The type of air conditioner**

**The noise**  
Outdoor  
Indoor

### Classifications

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

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

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

## ALL DC ALL **DC**

### 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.

DC Fan Motor











Inverter Control Base

DC Fan Motor

DC Compressor

# SPLIT & WINDOW TYPE AIR CONDITIONERS LINEUP

Single Split & Window												
Model/ Capacity class	2.0kW	2.6kW	3.5kW	4.1kW	5.3kW	7.1kW	8.8kW	10.6kW	13.2kW	15.8kW	17.6kW	26.4kW
<b>INVERTER</b> Ceiling wall (noctria) P.6												
<b>INVERTER</b> Wall mounted (Plasma) P.8												
<b>INVERTER</b> Wall mounted (Compact) P.10												
<b>INVERTER</b> Wall mounted (Large) P.12												
Wall mounted P.13												
<b>INVERTER</b> Floor P.14												
<b>INVERTER</b> Cassette P.20												
<b>INVERTER</b> Floor/Ceiling P.25												
<b>INVERTER</b> Duct P.27												
<b>INVERTER</b> Duct (High static pressure) P.29												
Cassette P.30												
Floor/Ceiling P.32												
Duct P.34												
Window P.40												

Multi Split <b>INVERTER</b> P.16												
Indoor							Outdoor					
Wall mounted	Wall mounted	Floor	Compact Cassette	Compact Duct	Compact Duct	Floor/Ceiling Universal	2 rooms	3 rooms	4 rooms			
												
RSA07LA RSA09LA RSA12LA RSA14LA RSA18LA	RSM-24LA	RGF09LA RGF12LA RGF14LA	RCF09LA RCF12LA RCF14LA RCF18LA	RDF09LA	RDF12LA RDF14LA RDF18LA RDF22LA	RYF14LA RYF18LA RYF24LA	ROM-18LA2 ROM-24LA2	ROA18LAT3 ROA24LAT3	ROM-30LA4			

# INVERTER

## CEILING WALL TYPE

5th year of record achievements.  
Automatic filter cleaning air conditioner



CLASS ALL  
A DC  
RJZ14LB

CLASS ALL  
A DC  
RJZ18LB

CLASS ALL  
A DC  
RJZ24LB

For RJZ14/18LB

For RJZ24LB

### 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

If the energy saving effect is maintained, filter cleaning once every 2 weeks is effective.

2 exhaustive bacteria eliminating and deodorizing countermeasures keep the air in the room clean

If the energy saving effect is maintained, filter cleaning once every 2 weeks is effective.

### Bacteria eliminating countermeasure

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

\* 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.

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

### Our unique technology that achieved top energy efficiency in the industry

**c** 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.

**d** Computer-designed fan provides a larger airflow than conventional models

New air trunk, which provides a smooth airflow, and axial gap fan motor increase the max. airflow by 10% over that of conventional models.



CAE analysis

CAE: Computer aided engineering

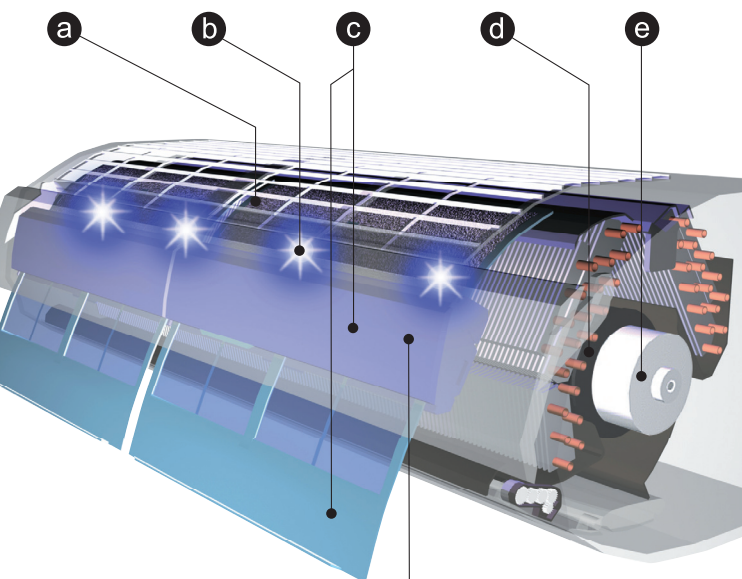
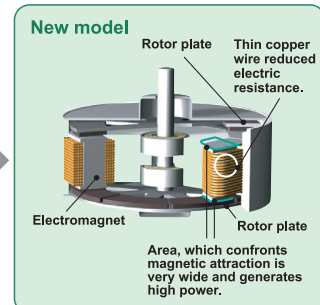
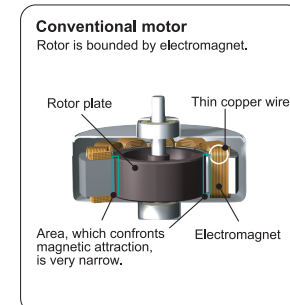
**e** Axial gap fan motor enables nonconventional high power and high efficiency\*2

**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

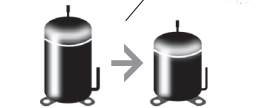
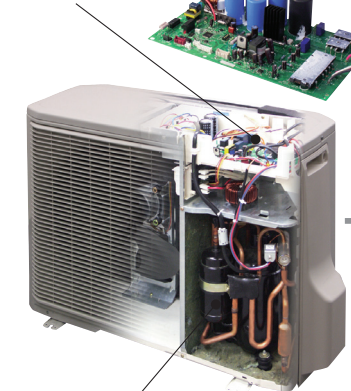
Removes dirt and dust by double brushes. Dust collection is approx. twice that in the past. (our company comparison)  
Maintenance: Only throwing into a trash bin once every 2 years

\*1: Announced September 9, 2002, In room air conditioner for the home (Our company's investigation)  
\*2: Announced December 13, 2004, As fan motor for air conditioner (Our company's investigation)

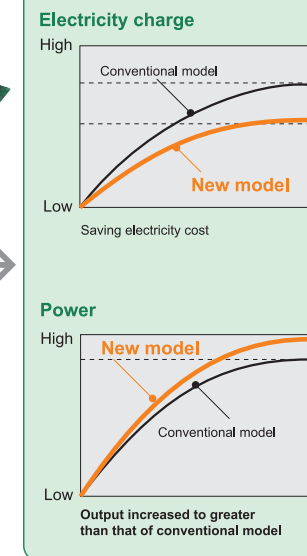
### V-PAM inverter increases the max. output of the compressor significantly & enables high power & high efficiency

#### V-PAM

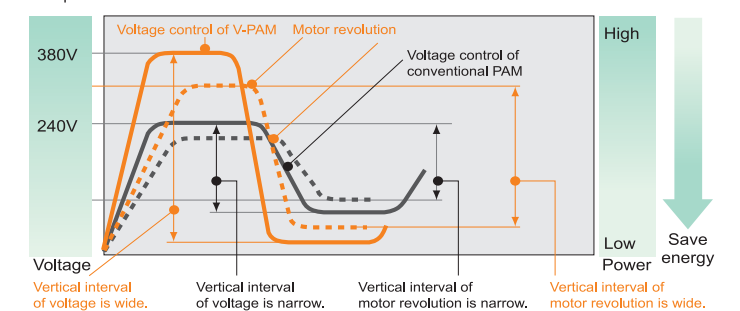
V-PAM technology makes the compressor more powerful.



More compact than conventional models



#### Comparison between V-PAM and conventional PAM

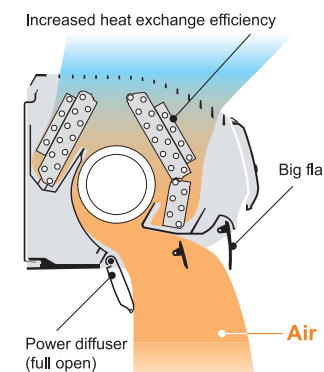


**Conventional PAM**  
Control range between energy saving and high power is small because vertical interval of voltage and motor revolution is narrow.

**V-PAM**  
V-PAM achieves high power by increasing the voltage up to 380V and making the motor rotate faster, and also saves energy in the stable state by making the motor rotate slower than that of conventional models by lowering the voltage.

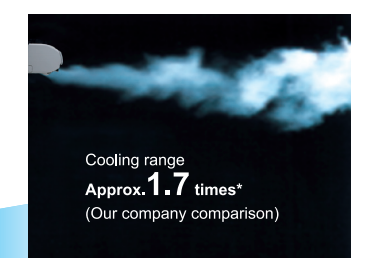
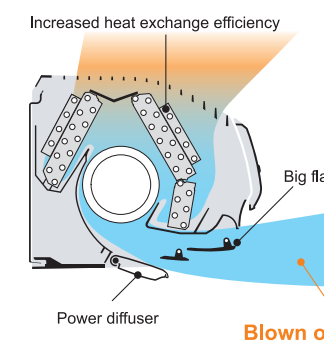
### "Vertical airflow" provides powerful floor level heating

**No.1 Heating capacity**



\*Compared to our conventional Model RSW-13V

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



\*Compared to our conventional Model RSW-13V



#### SPECIFICATIONS

Reference	Model No.	Indoor Unit			Outdoor Unit		
		RJZ14LB	RJZ18LB	RJZ24LB	ROZ14LB	ROZ18LB	ROZ24LB
Input Power		V/φ/Hz	230/1/50	230/1/50	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)	7.10 (0.9-8.0)
		Heating	kW	6.00 (0.9-9.1)	6.70 (0.9-9.7)	8.50 (0.9-11.0)	8.50 (0.9-11.0)
Power Consumption		Cooling/Heating	kW	1.02/1.35	1.58/1.63	2.21/2.24	2.21/2.24
EER - Energy Class		Cooling	W/W	4.12-A	3.29-A	3.21-A	3.21-A
COP - Energy Class		Heating	W/W	4.44-A	4.11-A	3.62-A	3.62-A
Running Current		Cooling/Heating	A	4.5/5.9	6.9/7.2	9.7/10.3	9.7/10.3
Moisture Removal			l/h	2.1	2.8	3.0	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	47/43/40/36/32
Noise (Outdoor)		Cooling	dB(A)	46	47	53	53
Airflow (High)		Indoor/Outdoor	m <sup>3</sup> /h	850/1910	850/1910	880/3600	880/3600
Net Dimension	Indoor	mm	250x899x298	250x899x298	250x899x298	250x899x298	
		kg(lbs)	13.5(30)	13.5(30)	14(31)	14(31)	
Weight	Outdoor	mm	578x790x300	578x790x300	830x900x330	830x900x330	
		kg(lbs)	39(86)	39(86)	62(137)	62(137)	
Piping Connections(Small/Large)			6.35/12.70	6.35/12.70	6.35/15.88	6.35/15.88	
Drain Pipe Diameter (Inner/Outer)		mm	16/29	16/29	16/29	16/29	
Max Pipe Length (Chargeless)		m	20(15)	20(15)	30(15)	30(15)	
Max Height Difference			15	15	20	20	
Operation Range	Cooling	°C	-10-43	-10-43	-10-43	-10-43	
		°C	-15-24	-15-24	-15-24	-15-24	
Refrigerant			R410A	R410A	R410A	R410A	

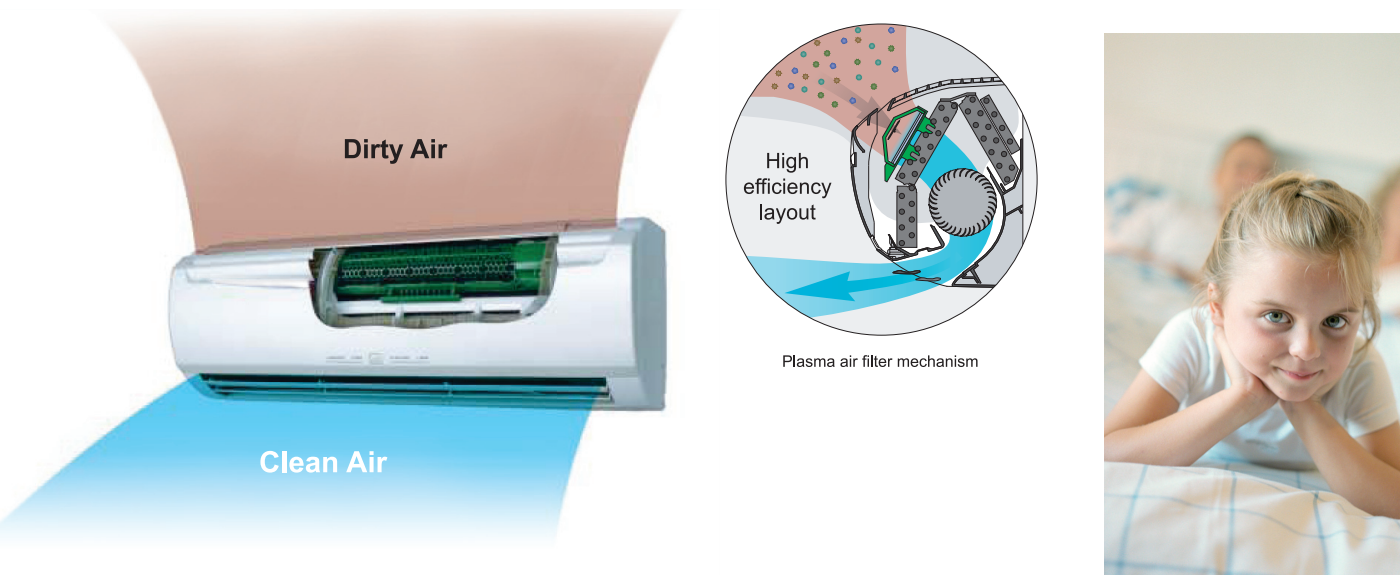
# INVERTER

## WALL MOUNTED TYPE

PLASMA AIR CONDITIONER



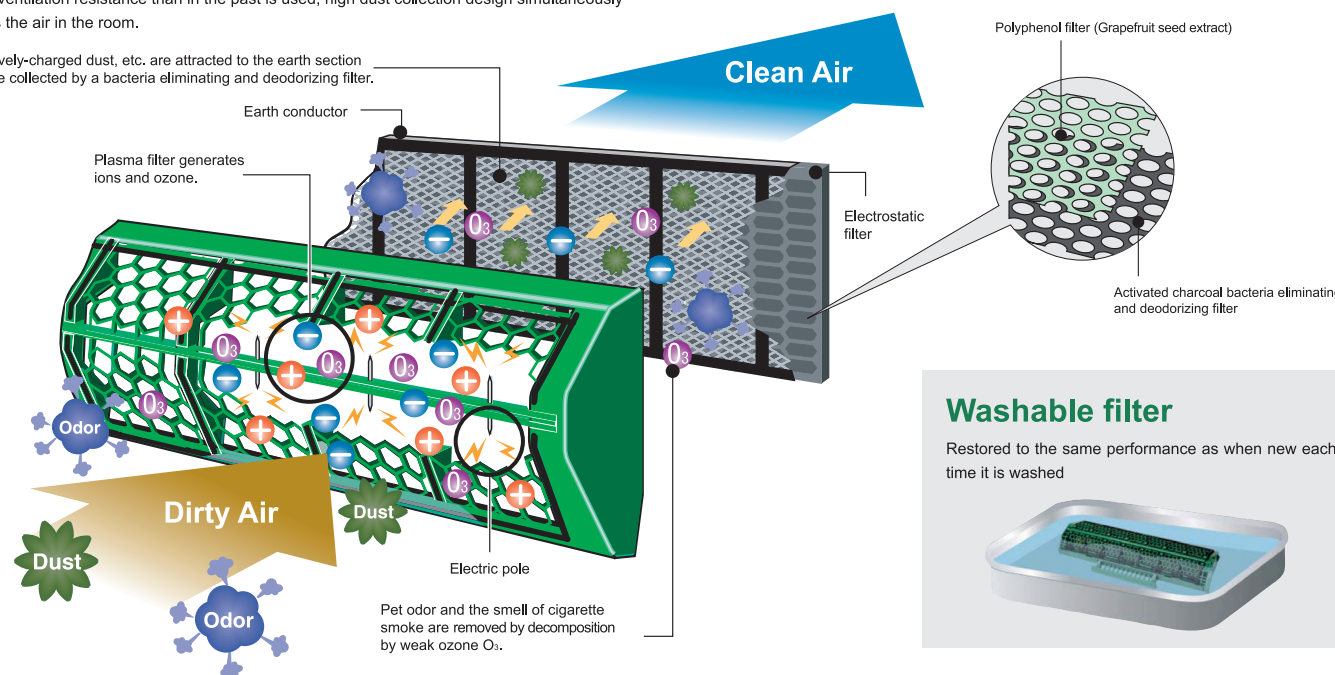
### Original plasma air cleaning unit effectively cleans the air in the room



#### Plasma unit

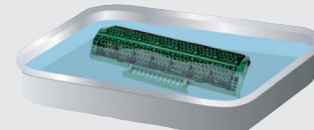
Mounts a plasma air cleaning unit. Minute dust particles are collected by an electrostatic filter and odor is suppressed by decomposition of foul odors by very weak ions. Since a filter with a lower ventilation resistance than in the past is used, high dust collection design simultaneously cleans the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

Negatively-charged dust, etc. are attracted to the earth section and are collected by a bacteria eliminating and deodorizing filter.



#### Washable filter

Restored to the same performance as when new each time it is washed



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

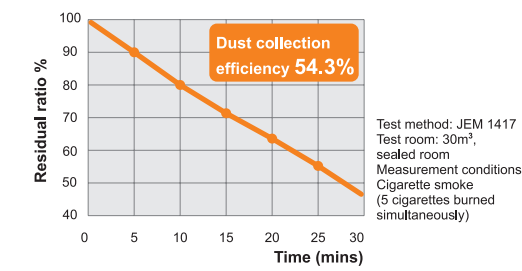
Collects dirt such as...

House dust / Pet fur and dander / Cigarette smoke / Mite carcass / Mold spore / Pollen

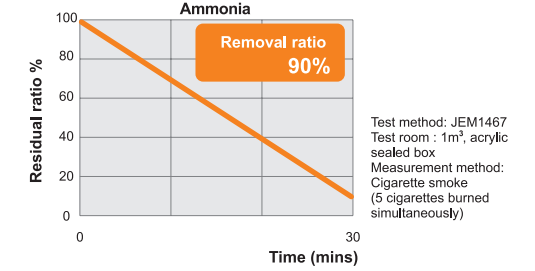
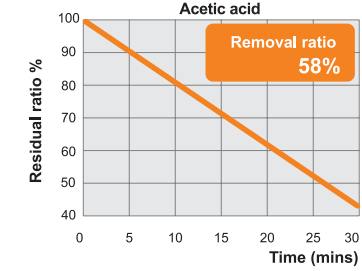
Absorbs odors such as...

Smell of cigarette smoke / Pet odor / Kitchen garbage smell / Perspiration and body odor

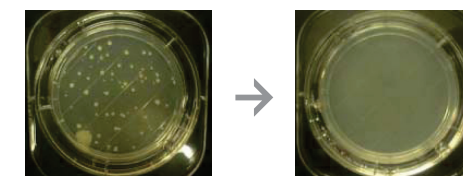
#### Dust collection performance (RSB09/12/18LD)



#### Deodorizing performance (RSB09/12/18LD)



#### 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.

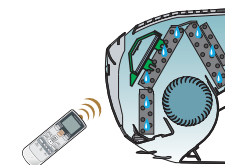
Tested by KITAZATO environment science center  
Test NO. :15-0253 Test condition: at 20 degrees C/24 hour action

### 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.

#### Covered with beading

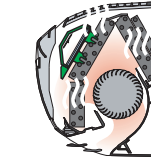
Bacteria grows in beading, and it causes bad odor.



After operation ends, start approx. 30 minutes speed cleaning operation by merely pressing the COIL DRY button.

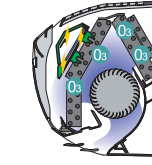
#### Removes moisture

Drying operation for approx. 15 mins



#### Bacteria elimination

Ozone bacteria eliminating operation for approx. 15 mins



"Inner drying operation" and "ozone bacteria eliminating operation" keep the inside of the air conditioner clean at all times. That's why air from the air conditioner is always clean and high efficiency is realized.

### Quiet operation

Cooling mode

Fan speed	Noise level
Quiet	20dB(A)

(09/12TYPE)

### Easy maintenance

Easy maintenance and always clean. Troublesome maintenance has been made easy.

Since the front panel is easy to remove, maintenance is also easy.

#### Open panel



RSB09/12/18LD

### Low ambient

High efficiency compressor and newly added sensor for monitoring the refrigerant temperature makes possible fine-tuned inverter control which, in turns, make it possible to correspond to lower outdoor temperatures.

Cooling	Heating
-10 to 43°C	-15 to 24°C

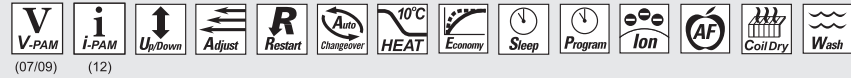
### SPECIFICATIONS

Reference	Model No.	Indoor Unit		RSB09LD	RSB12LD	RSB18LD	RSB24LD
		Outdoor Unit		ROS09LD	ROS12LD	ROS18LD	ROS24LD
Input Power		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	kW	3.60(0.5-6.1)	4.80(0.9-6.7)	6.25(0.9-9.1)	8.10(0.9-10.6)
Power Consumption	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	W/W		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		39/34/29/20	41/35/29/20	45/39/33/26	49/43/38/33
Noise (Outdoor)	Cooling	dB(A)		47	47	50	52
Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h		560/1970	595/1830	700/2000	1170/2340
Net Dimension	Indoor	mm		283x790x230	283x790x230	283x790x230	320x998x228
		kg(lbs)		9.5(21)	9.5(21)	10(22)	14(31)
Weight	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	6.35/12.7	6.35/15.88
Drain Pipe Diameter (Inner/Outer)		mm		16/29	16/29	16/29	16/29
Max Pipe Length (Chargeless)		m		20(15)	20(15)	20(15)	30(15)
Max Height Difference		m		15	15	15	20
Operation Range	Cooling	°C		-10-43	-10-43	-10-43	-10-43
	Heating	°C		-15-24	-15-24	-15-24	-15-24
Refrigerant				R410A	R410A	R410A	R410A

# INVERTER

## WALL MOUNTED TYPE

Simple & Elegant Appearance Design  
Ensuring Compatibility with Compact Energy Saving



**NEW** CLASS A ALL DC  
RSA07L9

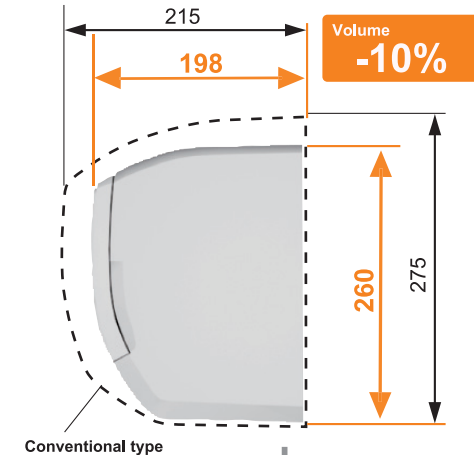
CLASS A ALL DC  
RSA09L9

CLASS A ALL DC  
RSA12L9

CLASS A ALL DC  
RSA14L9

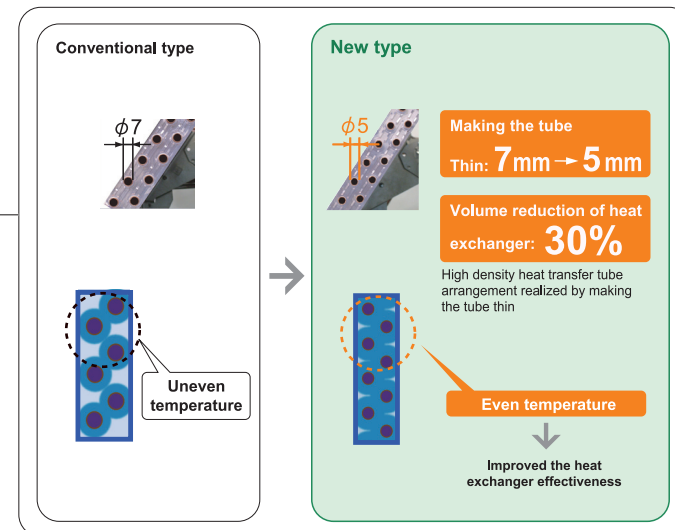
### Compact Sized Indoor Unit

Top class compact size achieved by realizing the highest efficiency in the industry



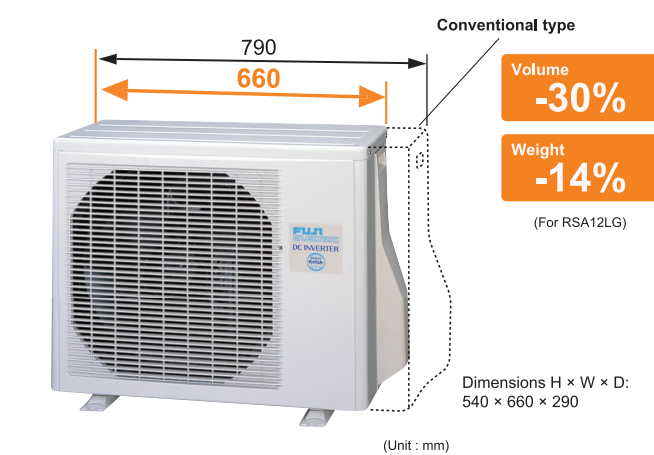
Simple and compact design matches any interior decor

### High density heat transfer tube arrangement realized by making the tube thin



### Compact Sized Outdoor Unit

Top class compact size increases workability and installation flexibility

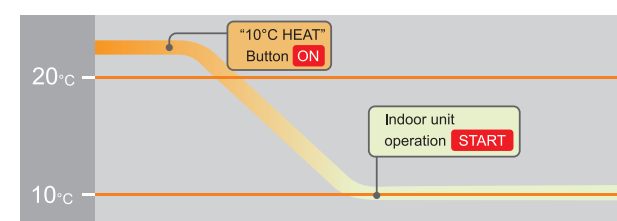


Compact design allows a wider selection of outdoor unit installation sites

### 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.



### Air conditioner filter features



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

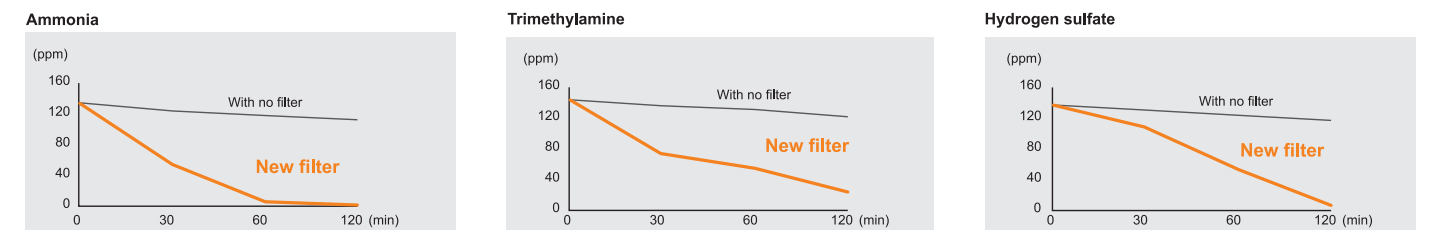
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

(\*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)

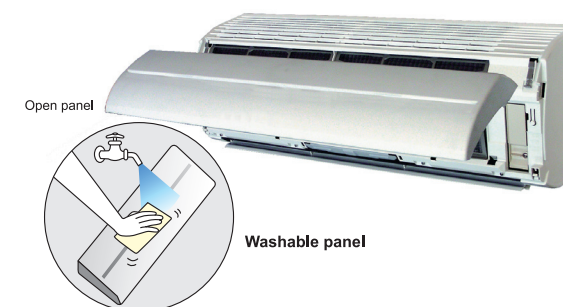


Testing organization : Environmental Sanitary Inspection Center Test method : Deodorization Test

### Easy maintenance

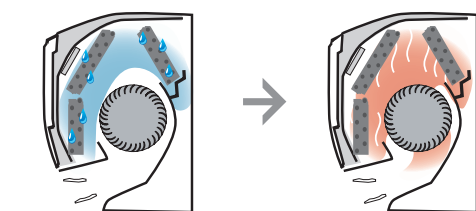
Easy maintenance and always clean. Troublesome maintenance has been made easy.

Since the front panel is easy to remove, maintenance is also easy.



### Inner drying operation

During dew condensation → Approx. 90 mins Drying



This model is equipped with an inner drying function. After the power is turned off, the dry operation starts inside the air conditioner. This prevents the growth of mold and bacteria inside the air conditioner.

### Quiet operation

Cooling mode

Fan speed	Noise level
Quiet	21 dB(A)

(07/09/12TYPE)

### Low ambient

High efficiency compressor and newly added sensor for monitoring the refrigerant temperature makes possible fine-tuned inverter control which, in turns, make it possible to correspond to lower outdoor temperatures.

Cooling	Heating
-10 to 43°C	-15 to 24°C

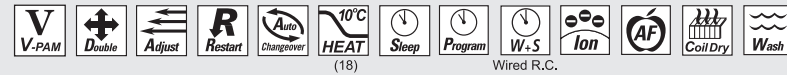
### SPECIFICATIONS

Reference	Model No.	Indoor Unit	TENTATIVE			
			Outdoor Unit	RSA07LG	RSA09LG	RSA12LG
Input Power			230/1/50	230/1/50	230/1/50	230/1/50
Capacity		Cooling	2.1	2.50(0.5~3.2)	3.40(0.9~3.9)	4
		Heating	3	3.20(0.5~4.5)	4.00(0.9~5.6)	5
Power Consumption			0.47/0.66	0.63/0.75	0.90/0.97	1.08/1.30
EER - Energy Class			4.47-A	3.97-A	3.80-A	3.70-A
COP - Energy Class			4.55-A	4.27-A	4.12-A	3.86/-A
Running Current			-/-	3.2/3.7	4.3/4.6	-/-
Moisture Removal			-	1.3	1.8	-
Noise (Indoor)		Cooling   H/M/L/Q	42/ - / - /21	43/39/33/21	43/39/33/21	44/ - / - /25
		dB(A)	47	45	48	48
Noise (Outdoor)		Cooling	-/-	750/1720	750/1830	-/-
		kg(lbs)	260x790x198	260x790x198	260x790x198	260x790x198
Net Dimension H x W x D		Indoor	7.5(17)	7.5(17)	7.5(17)	7.5(17)
		kg(lbs)	540x660x290	540x660x290	540x660x290	620x790x298
Weight		Indoor	25(55)	25(55)	32(71)	40(88)
		kg(lbs)	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
Drain Pipe Diameter (Inner/Outer)			16/29	16/29	16/29	16/29
Max Pipe Length (Chargeless)			20(15)	20(15)	20(15)	20(15)
Max Height Difference			15	15	15	15
Operation Range		Cooling	-10~43	-10~43	-10~43	-10~43
		Heating	-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A

# INVERTER

## WALL MOUNTED TYPE

Simple & Elegant Appearance Design

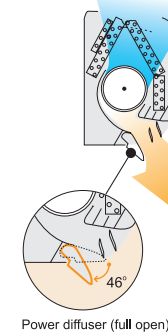


CLASS ALL DC  
A → RSA18LE  
NEW

CLASS ALL DC  
A → RSA24LC

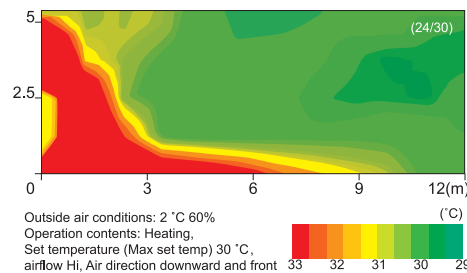
ALL DC  
RSA30LC

### Power diffuser

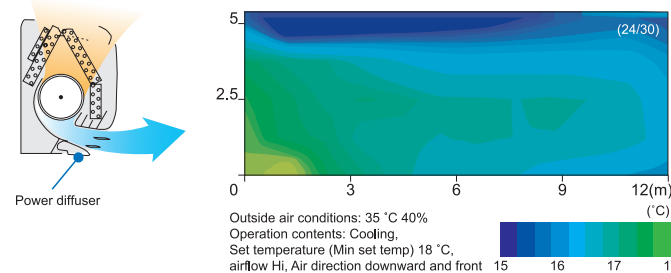


“Vertical airflow” provides powerful floor level heating

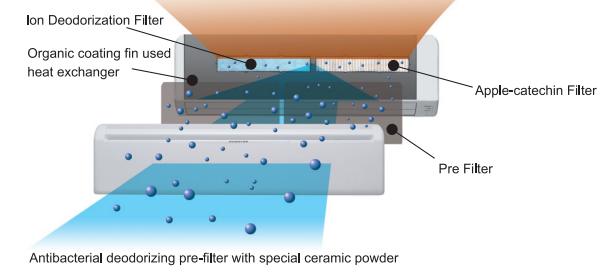
No.1 Heating capacity



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



### 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.)

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

For RSA18LE  
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. (See detail on page 10)

### 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

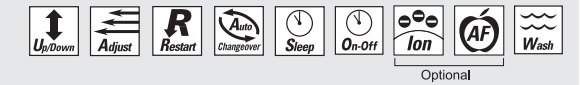
High efficiency compressor and newly added sensor for monitoring the refrigerant temperature makes possible fine-tuned inverter control which, in turns, make it possible to correspond to lower outdoor temperatures.

	Cooling	Heating
	-10 to 43°C	-15 to 24°C

### SPECIFICATIONS

Reference	Model No.	TENTATIVE				
		Indoor Unit	RSA18LE	RSA24LC	RSA30LC	
Input Power	Outdoor Unit	V/ø/Hz	230/1/50	230/1/50	230/1/50	
		Capacity	Cooling kW	5.2	7.10(0.9~8.0)	8.00(2.9~9.0)
Power Consumption	Cooling/Heating	kW	6.3	8.10(0.9~10.6)	9.00(2.2~11.0)	
		EER - Energy Class	W/W	3.51-A	3.21-A	3.01-B
COP - Energy Class	Heating	W/W	3.75-A	3.62-A	3.41-B	
		Running Current	Cooling/Heating	A	— / —	9.7/9.8
Moisture Removal	l/h	—	3.0	3.4		
		Noise (Indoor)	Cooling   H/M/L/Q	44/— /— /25	47/41/36/32	47/41/36/32
Noise (Outdoor)	Cooling	H/M/L/Q	50	52	53	
		Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	— / —	1100/2340
Net Dimension	Indoor	H x W x D	mm	320x998x228	320x998x228	320x998x228
		Weight	kg(lbs)	14(31)	14(31)	14(31)
Weight	Outdoor	H x W x D	mm	620x790x298	578x790x315	830x900x330
		Weight	kg(lbs)	40(88)	44(97)	62(137)
Piping Connections(Small/Large)			6.35/15.88	6.35/15.88	9.52/15.88	
Drain Pipe Diameter (Inner/Outer)			16/29	16/29	16/29	
Max Pipe Length (Chargeless)			25	30(15)	50(20)	
Max Height Difference			20	20	30	
Operation Range	Cooling	°C	-10~43	-10~43	-10~43	
		Heating	-15~24	-15~24	-15~24	
Refrigerant			R410A	R410A	R410A	

## WALL MOUNTED TYPE



RS-7UC RS-9UB RS-12UD

For RS-7UC/9UB

For RS-12UD

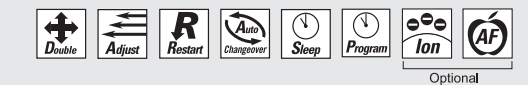
RS-14UC



RS-18UB RS-24UB RS-30UC

For RS-18/24UB

For RS-30UC



### SPECIFICATIONS

Reference	Model No.	TENTATIVE								
		Indoor Unit	RS-7UC	RS-9UB	RS-12UD	RS-14UC	RS-18UB	RS-24UB	RS-30UC	
Input Power	Outdoor Unit	V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	
		Capacity	Cooling kW	2.20	2.60	3.25	4.25	5.40	6.80	7.90
Power Consumption	Cooling/Heating	kW	2.30	2.95	3.95	4.80	5.70	7.40	8.40	
		EER - Energy Class	W/W	2.65-D	2.43-E	2.41-E	3.08-B	2.92-C	2.83-C	2.87-C
COP - Energy Class	Heating	W/W	3.07-D	3.28-C	3.09-D	3.78-A	3.08-D	3.08-D	3.05-D	
		Running Current	Cooling/Heating	A	3.9/3.6	4.8/4.1	5.9/5.6	6.1/5.6	8.3/8.3	10.6/10.5
Moisture Removal	l/h	—	1.0	1.3	1.8	2.0	2.5	3.0		
		Noise (Indoor)	Cooling   H/M/L/Q	38/35/33/29	40/38/35/30	40/38/36/33	43/40/37/33	41/37.5/34/—	45/42/38/—	47.5/44/40.5/—
Noise (Outdoor)	Cooling	H/M/L/Q	43	46	48	47	52	53	54	
		Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	380/1350	540/1350	540/1700	700/1670	800/3200	970/3200
Net Dimension	Indoor	H x W x D	mm	257x808x187	257x808x187	257x808x187	275x790x215	320x1120x220	320x1120x220	320x1120x220
		Weight	kg(lbs)	8(18)	8(18)	8(18)	9(20)	16(35)	16(35)	16(35)
Weight	Outdoor	H x W x D	mm	535 x 650 x 250	535x650x250	535 x 695 x 250	535x780x250	650x830x320	650x830x320	900X900X350
		Weight	kg(lbs)	26(57)	28(62)	31(68)	37(82)	52(114)	59(130)	74(163)
Piping Connections(Small/Large)			6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7	6.35/15.88	9.52/15.88	9.52/15.88	
Drain Pipe Diameter (Inner/Outer)			14/25.5	14/25.5	14/25.5	14/25.5	16/28	16/28	16/28	
Max Pipe Length (Chargeless)			10(7.5)	15(7.5)	15(7.5)	15(7.5)	20(7.5)	20(7.5)	25(7.5)	
Max Height Difference			5	8	8	8	8	8	15	
Operation Range	Cooling	°C	21~43	21~43	21~43	21~43	0~43	0~43	0~43	
		Heating	-5~24	-5~24	-5~24	-5~24	-6~24	-6~24	-6~24	
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	

# INVERTER FLOOR TYPE

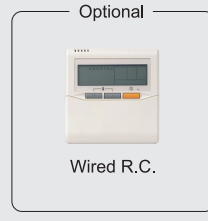
Simple & Thin design harmonizes with the interior



This units are connectable to single or multi-split system.



Wireless R.C.



Optional

Wired R.C.



For RGF09/12LA



For RGF14LA



CLASS ALL  
A DC  
RGF09LA

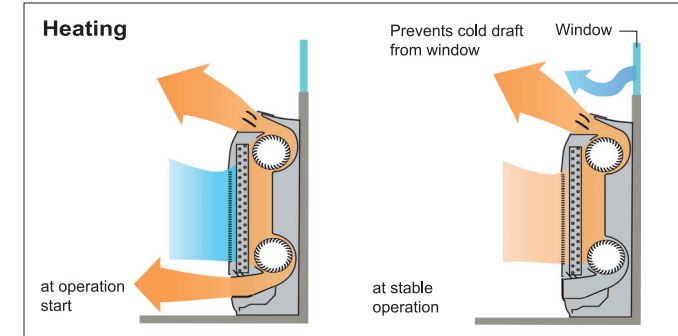
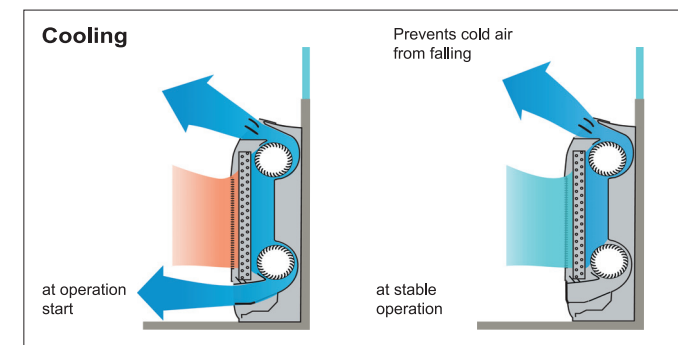
CLASS ALL  
A DC  
RGF12LA

CLASS ALL  
A DC  
RGF14LA

## Flexible & easy installation



## 2-Fan & Wide airflow

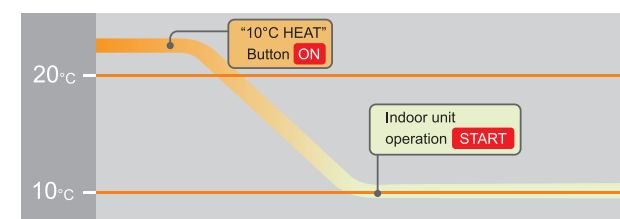


## 10°C HEAT Operation

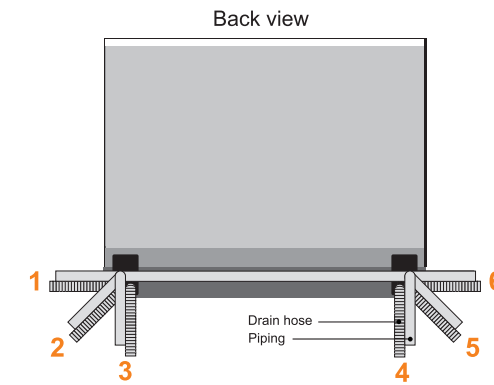
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied

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.

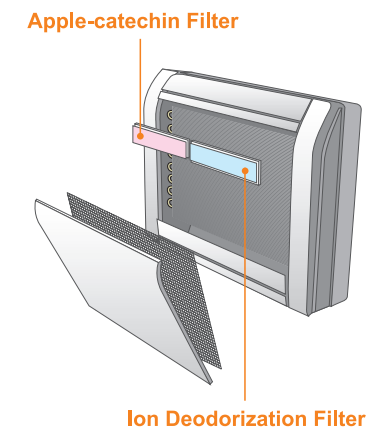


## Choice of 6-direction drain & piping connection



## 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.)

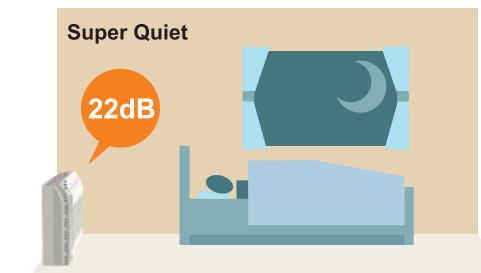


**Apple-catechin Filter**  
Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

## Quiet operation

Industry leading noise levels

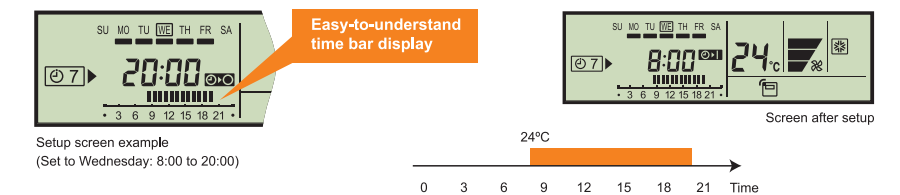
Fan speed	Noise level
Quiet	22dB(A)



## Built-in timers (Wired R.C.)

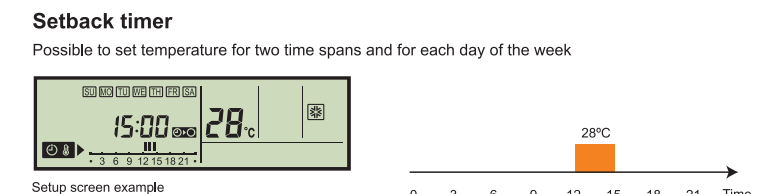
### Weekly timer

Possible to set ON/OFF time to operate twice each day of the week



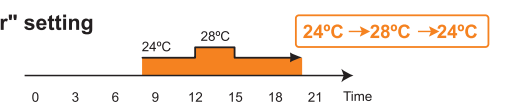
Setup screen example (Set to Wednesday: 8:00 to 20:00)

Screen after setup



Setup screen example (Set from Sunday to Saturday: 12:00 to 15:00, 28°C)

### At "Weekly timer" + "Set back timer" setting



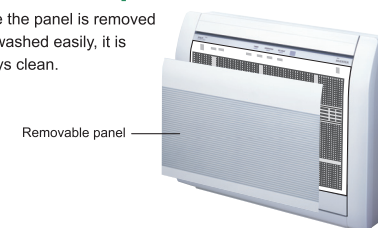
## Low ambient

High efficiency compressor and newly added sensor for monitoring the refrigerant temperature makes possible fine-tuned inverter control which, in turns, make it possible to correspond to lower outdoor temperatures.

Cooling	Heating
-10 to 43°C	-15 to 24°C

## Washable panel

Since the panel is removed and washed easily, it is always clean.



## Optional parts

Wired Remote Controller: UTB-XUD  
Half Concealed Kit: UTR-STA

## SPECIFICATIONS

Reference	Model No.	Indoor Unit		RGF09LA	RGF12LA	RGF14LA
		Outdoor Unit		ROV09LA	ROV12LA	ROV14LA
Input Power		V/ø/Hz		230/1/50	230/1/50	230/1/50
		Cooling	kW	2.60(0.9-3.5)	3.50(0.9-4.0)	4.20(0.9-5.0)
Capacity		Heating	kW	3.50(0.9-5.5)	4.50(0.9-6.6)	5.20(0.9-8.0)
		Power Consumption	Cooling/Heating	kW	0.53/0.79	0.94/1.19
EER - Energy Class		Cooling	W/W	4.91-A	3.72-A	3.68-A
		Heating	W/W	4.43-A	3.78-A	3.61-A
COP - Energy Class		Cooling	W/W	4.91-A	3.72-A	3.68-A
		Heating	W/W	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	40/35/29/22	40/35/29/22	44/38/31/22
		Heating	dB(A)	47	48	50
Noise (Outdoor)		Cooling	dB(A)	47	48	50
		Heating	dB(A)	47	48	50
Airflow (High)		Indoor/Outdoor	m³/h	570/1680	570/1680	650/1910
		Indoor	mm	600x740x200	600x740x200	600x740x200
Net Dimension H x W x D		Indoor	kg(lbs)	14(31)	14(31)	14(31)
		Outdoor	mm	540x790x290	540x790x290	578x790x300
Weight		Indoor	kg(lbs)	36(79)	36(79)	40(88)
		Outdoor	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)
Max Height Difference			m	15	15	15
Operation Range		Cooling	°C	-10-43	-10-43	-10-43
		Heating	°C	-15-24	-15-24	-15-24
Refrigerant				R410A	R410A	R410A



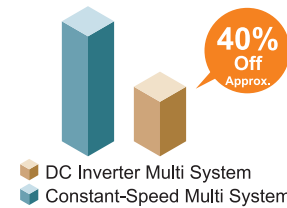
# INVERTER MULTI TYPE SYSTEMS



## Energy Saving

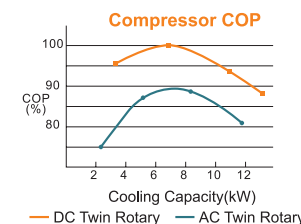
High Efficiency DC Inverter Multi system permits energy saving operation and 40% higher efficiency than a Constant-Speed Multi system. Improved Inverter cooling ratio prevents decrease in capacity under overload operation.

Energy Saving Over a Year's Time



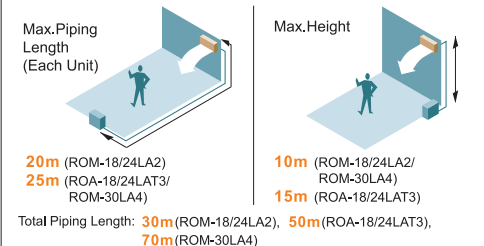
## DC Twin Rotary Compressor

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

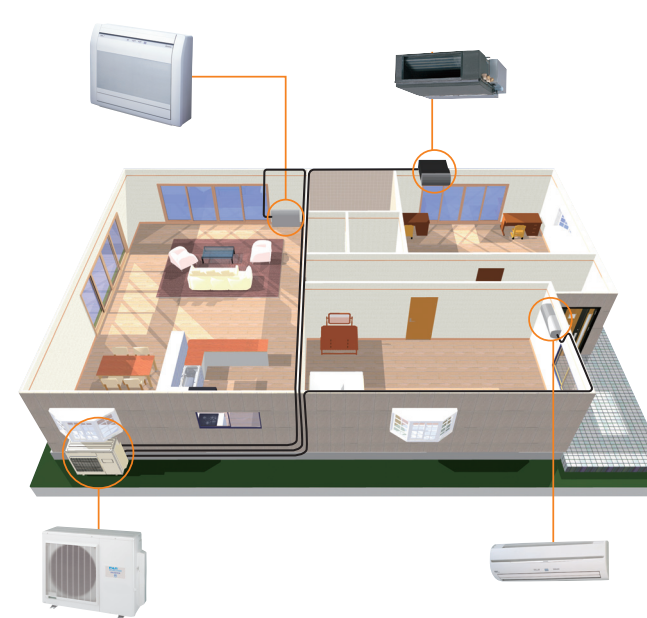
The outdoor unit can be installed in a wide range of properties by the long piping of 30m (gas chargeless) for ROM-18/24LA2, 50m (gas chargeless up to 30m) for ROA-18/24LAT3 and 70m (gas chargeless up to 50m) for ROM-30LA4.



2 Rooms (18type) 1 O.U. to 2 I.U. Total capacity of indoor units 4.1-7.0kW can be connected 8 varieties of connections in 2 I.U.  
 3 Rooms (18type) 1 O.U. to 2-3 I.U. Total capacity of indoor units 4.1-8.8kW can be connected 9 varieties of connections in 2 I.U. / 9 varieties of connections in 3 I.U.  
 2 Rooms (24type) 1 O.U. to 2 I.U. Total capacity of indoor units 4.1-8.8kW can be connected 13 varieties of connections in 2 I.U.  
 3 Rooms (24type) 1 O.U. to 2-3 I.U. Total capacity of indoor units 4.1-10.6kW can be connected 12 varieties of connections in 2 I.U. / 18 varieties of connections in 3 I.U.  
 4 Rooms (30type) 1 O.U. to 3-4 I.U. Total capacity of indoor units 7.9-14.4kW can be connected 47 varieties of connections in 3 I.U. / 44 varieties of connections in 4 I.U.

	WALL MOUNTED TYPE	FLOOR TYPE	FLOOR/CEILING UNIVERSAL TYPE	COMPACT DUCT TYPE	COMPACT CASSETTE TYPE	
<b>2.0kW</b> (7,000BTU)	RSA07LA 					2 ROOMS (18 type)
<b>2.6kW</b> (9,000BTU)	RSA09LA 	RGF09LA 		RDF09LA 	RCF09LA 	
<b>3.5kW</b> (12,000BTU)	RSA12LA 	RGF12LA 		RDF12LA 	RCF12LA 	2 ROOMS (24 type)
<b>4.1kW</b> (14,000BTU)	RSA14LA 	RGF14LA 	RYF14LA 	RDF14LA 	RCF14LA 	3 ROOMS (24 type)
<b>5.3kW</b> (18,000BTU)	RSA18LA 		RYF18LA 	RDF18LA 	RCF18LA 	4 ROOMS (30 type)
<b>6.4kW</b> (22,000BTU)				RDF22LA 		
<b>7.0kW</b> (24,000BTU)	RSM-24LA 		RYF24LA 			

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



	↑/↓	↕	↔	R	Auto Changer	10°C	U	Fresh	Economy	Sleep	Program	W.S	Ion	AF	Wash
RSA07/09/12/14/18LA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RSM-24LA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RGF09/12/14LA	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●
RCF09/12/14/18LA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RYF14/18/24LA	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●
RDF09/12/14/18/22LA	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●

○ : Optional function

## SPECIFICATIONS (WALL MOUNTED TYPE)

Model No.	Indoor Unit	RSA07LA	RSA09LA	RSA12LA	RSA14LA	RSA18LA	RSM-24LA
Input Power	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
Airflow (High)	m³/h	500	550	580	700	660	1020
Net Dimension H x W x D	mm	275x790x215	275x790x215	275x790x215	275x790x215	275x790x215	320x1120x220
Weight	kg(lbs)	9(20)	9(20)	9(20)	9(20)	9(20)	16(35)

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

Model No.	Indoor Unit	RGF09LA	RGF12LA	RGF14LA	RYF14LA	RYF18LA	RYF24LA
Input Power	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)	39/34/29/22	42/36/30/22	44/38/31/22	36/34/32/29	43/41/38/35	48/46/43/40
Airflow (High)	m³/h	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	RCF09LA	RCF12LA	RCF14LA	RCF18LA
Input Power	V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Noise	Cooling H/M/L/Q dB(A)	34/31/29/26	37/33/31/27	40/35/32/27	42/37/33/27
Airflow (High)	m³/h	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)
Grille		CG-FFB			

## SPECIFICATIONS (COMPACT DUCT TYPE)

Model No.	Indoor Unit	TENTATIVE RDF09LA	TENTATIVE RDF12LA	TENTATIVE RDF14LA	TENTATIVE RDF18LA	TENTATIVE RDF22LA
Input Power	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)	-	-	-	-	-
Airflow (High)	m³/h	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	ROM-18LA2	ROM-24LA2	ROA18LAT3	ROA24LAT3	ROM-30LA4
Input Power	V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Noise	Cooling dB(A)	49	49	46	48	50
Net Dimension H x W x D	mm	650x830x320	650x830x320	700x900x330	700x900x330	830x900x330
Weight	kg(lbs)	56(123)	56(123)	55(121)	55(121)	68(150)
Piping Connections (Small/Large)	mm	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 (Chargeless)	m	30(Total)	30(Total)	50(Total)	50(Total)	70(Total)
Max Height Difference	m	10(Each)	10(Each)	15(Each)	15(Each)	10(Each)
Operation Range	Cooling/Heating °C	0-46 -10-24	0-46 -10-24	-10-46 -15-24	-10-46 -15-24	0-46 -10-24
Refrigerant		R410A	R410A	R410A	R410A	R410A

\*Connect to connection valve by the adapter.

# COMBINATION TABLES

### ROM-18LA2

Indoor model for each room	COOLING OPERATION						HEATING OPERATION						
	Cooling Capacity			Power Input	EER	Cooling Class	Heating Capacity			Power Input	COP	Heating Class	
	Room 1	Room 2	Total				Room 1	Room 2	Total				
7 - -	2.30	-	2.30 (2.0-2.7)	0.71 (0.65-0.90)	3.24	A	355	2.70	-	2.70 (2.2-3.3)	0.82 (0.65-1.01)	3.29	C
9 - -	2.70	-	2.70 (2.0-3.2)	0.89 (0.65-1.07)	3.03	B	445	3.30	-	3.30 (2.2-4.2)	0.99 (0.65-1.26)	3.33	C
12 - -	3.50	-	3.50 (2.0-4.0)	1.09 (0.65-1.33)	3.21	A	545	4.00	-	4.00 (2.2-4.8)	1.20 (0.65-1.47)	3.33	C
14 - -	4.20	-	4.20 (2.0-4.8)	1.30 (0.65-1.60)	3.23	A	650	4.80	-	4.80 (2.2-6.0)	1.43 (0.65-1.87)	3.36	C
7 7	2.30	2.30	4.60 (2.0-5.4)	1.39 (0.68-1.68)	3.31	A	695	2.60	2.60	5.20 (2.2-6.4)	1.34 (0.68-1.75)	3.88	A
7 9	2.35	2.75	5.10 (2.0-5.9)	1.56 (0.68-1.84)	3.27	A	760	2.85	3.35	6.20 (2.2-7.3)	1.65 (0.68-2.22)	3.76	A
7 12	2.18	3.32	5.50 (2.0-6.3)	1.65 (0.68-2.03)	3.33	A	825	2.59	3.71	6.30 (2.2-7.7)	1.65 (0.68-2.40)	3.82	A
7 14	1.95	3.55	5.50 (2.0-6.5)	1.65 (0.68-2.40)	3.33	A	825	2.56	4.04	6.40 (2.5-7.8)	1.65 (0.75-2.40)	3.86	A
9 9	2.70	2.70	5.40 (2.0-6.3)	1.65 (0.68-2.06)	3.27	A	825	3.15	3.15	6.30 (2.2-7.7)	1.65 (0.68-2.22)	3.82	A
9 12	2.40	3.10	5.50 (2.0-6.5)	1.65 (0.68-2.40)	3.33	A	825	2.85	3.45	6.30 (2.2-7.8)	1.65 (0.75-2.40)	3.82	A
9 14	2.15	3.35	5.50 (2.0-6.5)	1.65 (0.68-2.40)	3.33	A	825	2.61	3.79	6.40 (2.5-7.8)	1.65 (0.75-2.40)	3.88	A
12 12	2.75	2.75	5.50 (2.0-6.5)	1.65 (0.68-2.40)	3.33	A	825	3.15	3.15	6.30 (2.2-7.8)	1.65 (0.75-2.40)	3.82	A

### ROM-24LA2

Indoor model for each room	COOLING OPERATION						HEATING OPERATION						
	Cooling Capacity			Power Input	EER	Cooling Class	Heating Capacity			Power Input	COP	Heating Class	
	Room 1	Room 2	Total				Room 1	Room 2	Total				
7 - -	2.30	-	2.30 (2.0-2.7)	0.71 (0.65-0.90)	3.24	A	355	2.70	-	2.70 (2.2-3.3)	0.82 (0.65-1.01)	3.29	C
9 - -	2.70	-	2.70 (2.0-3.2)	0.89 (0.65-1.07)	3.03	B	445	3.30	-	3.30 (2.2-4.2)	0.99 (0.65-1.26)	3.33	C
12 - -	3.50	-	3.50 (2.0-4.0)	1.09 (0.65-1.33)	3.21	A	545	4.00	-	4.00 (2.2-4.8)	1.20 (0.65-1.47)	3.33	C
14 - -	4.20	-	4.20 (2.0-4.8)	1.30 (0.65-1.60)	3.23	A	650	4.80	-	4.80 (2.2-6.0)	1.43 (0.65-1.87)	3.36	C
7 7	2.30	2.30	4.60 (2.0-5.4)	1.39 (0.68-1.68)	3.31	A	695	2.60	2.60	5.20 (2.2-6.4)	1.34 (0.68-1.75)	3.88	A
7 9	2.35	2.75	5.10 (2.0-5.9)	1.56 (0.68-1.84)	3.27	A	780	2.85	3.35	6.20 (2.2-7.3)	1.65 (0.68-2.22)	3.88	A
7 12	2.18	3.32	5.50 (2.0-6.3)	1.71 (0.68-2.03)	3.22	A	855	2.59	3.71	6.30 (2.2-7.7)	1.65 (0.68-2.40)	3.82	A
7 14	1.95	3.55	5.50 (2.0-6.5)	1.72 (0.68-2.62)	3.31	A	860	2.36	4.04	6.40 (2.5-7.8)	1.67 (0.75-2.68)	3.83	A
9 9	2.70	2.70	5.40 (2.0-6.3)	1.72 (0.68-2.06)	3.31	A	860	2.13	4.27	6.40 (2.5-8.9)	1.67 (0.75-2.87)	3.88	A
9 12	2.40	3.10	5.50 (2.0-6.5)	1.73 (0.68-2.37)	3.29	A	860	2.91	3.49	6.40 (2.5-9.0)	1.70 (0.68-2.47)	3.76	A
9 14	2.24	3.16	5.60 (2.0-7.0)	1.71 (0.68-2.58)	3.27	A	855	2.85	3.45	6.30 (2.2-8.4)	1.68 (0.75-2.70)	3.76	A
9 14	2.23	3.47	5.70 (2.0-7.6)	1.72 (0.68-2.87)	3.31	A	860	2.61	3.79	6.40 (2.5-8.9)	1.66 (0.75-2.87)	3.86	A
9 14	2.00	3.70	5.70 (2.0-7.7)	1.72 (0.68-2.87)	3.31	A	860	2.37	4.03	6.40 (2.5-8.9)	1.64 (0.80-2.87)	3.90	A
12 12	2.80	2.80	5.60 (2.0-7.3)	1.72 (0.68-2.87)	3.26	A	860	3.20	3.20	6.40 (2.2-8.9)	1.67 (0.75-2.87)	3.83	A
12 14	2.59	3.11	5.70 (2.0-7.6)	1.73 (0.68-2.87)	3.25	A	865	2.91	3.49	6.40 (2.5-9.0)	1.68 (0.80-2.87)	3.88	A
12 18	2.59	3.41	5.80 (2.5-7.8)	1.73 (0.80-2.87)	3.35	A	865	2.67	3.73	6.40 (2.5-8.9)	1.64 (0.80-2.87)	3.90	A
14 14	2.90	2.90	5.80 (2.5-7.8)	1.73 (0.80-2.87)	3.35	A	865	3.20	3.20	6.40 (2.2-8.8)	1.64 (0.80-2.87)	3.90	A

### ROA18LAT3

Indoor model for each room	COOLING OPERATION						HEATING OPERATION						
	Cooling Capacity			Power Input	EER	Cooling Class	Heating Capacity			Power Input	COP	Heating Class	
	Room 1	Room 2	Room 3				Room 1	Room 2	Room 3				
7 - -	2.30	-	2.30 (1.5-2.7)	0.65 (0.45-0.75)	3.54	A	325	2.70	-	2.70 (1.5-3.3)	0.83 (0.43-1.00)	3.25	C
9 - -	2.70	-	2.70 (1.5-3.3)	0.80 (0.45-1.09)	3.38	A	400	3.30	-	3.30 (1.5-4.2)	1.00 (0.42-1.30)	3.30	C
12 - -	3.50	-	3.50 (1.5-3.7)	1.09 (0.45-1.15)	3.21	A	545	3.80	-	3.80 (1.5-4.8)	1.26 (0.42-1.62)	3.02	D
14 - -	4.20	-	4.20 (1.5-4.8)	1.16 (0.45-1.41)	3.62	A	580	4.80	-	4.80 (1.5-5.8)	1.30 (0.42-1.70)	3.69	A
7 7	2.30	2.30	4.60 (1.5-4.9)	1.22 (0.50-1.43)	3.77	A	610	2.91	2.70	5.40 (1.5-6.1)	1.59 (0.52-1.93)	3.40	C
7 7	2.70	2.30	5.00 (1.5-5.7)	1.35 (0.50-1.81)	3.70	A	675	3.25	2.75	6.00 (2.0-6.4)	1.87 (0.52-2.06)	3.21	C
7 7	3.02	1.98	5.00 (1.5-6.1)	1.34 (0.50-2.06)	3.73	A	670	3.71	2.59	6.30 (2.0-6.5)	1.98 (0.52-2.06)	3.18	D
7 7	3.42	1.88	5.30 (1.5-6.6)	1.34 (0.50-2.06)	3.96	A	670	4.29	2.51	6.80 (2.0-7.1)	1.92 (0.50-2.06)	3.54	B
9 9	2.50	2.50	5.00 (1.5-6.2)	1.35 (0.50-2.06)	3.70	A	675	3.15	3.15	6.30 (2.0-6.5)	1.98 (0.52-2.06)	3.18	D
9 9	2.82	2.18	5.00 (1.5-6.3)	1.35 (0.50-2.06)	3.70	A	675	3.51	2.89	6.40 (2.0-6.8)	1.98 (0.52-2.06)	3.22	C
12 12	2.55	2.07	5.30 (1.5-6.7)	1.35 (0.50-2.06)	3.93	A	675	4.03	2.77	6.80 (2.0-7.2)	1.91 (0.50-2.06)	3.56	B
12 12	2.55	2.55	5.10 (1.5-6.3)	1.35 (0.50-2.06)	3.78	A	675	3.20	3.20	6.40 (2.0-6.6)	1.98 (0.52-2.06)	3.23	C
12 12	2.89	2.41	5.30 (1.5-6.7)	1.35 (0.50-2.06)	3.93	A	675	3.71	3.09	6.80 (2.0-7.3)	1.90 (0.50-2.06)	3.58	B
7 7 7	1.80	1.80	3.60 (1.5-4.8)	1.34 (0.50-2.06)	4.00	A	670	2.23	2.23	6.70 (2.0-7.7)	1.70 (0.50-2.06)	3.94	A
9 9 7	2.00	1.70	3.70 (1.5-4.8)	1.35 (0.50-2.06)	4.00	A	675	2.52	2.14	6.80 (2.0-7.8)	1.70 (0.50-2.06)	4.00	A
12 7 7	2.33	1.53	3.80 (1.5-4.8)	1.35 (0.50-2.06)	4.00	A	675	2.83	1.98	6.80 (2.0-7.8)	1.69 (0.50-2.06)	4.02	A
14 7 7	2.58	1.41	4.00 (1.5-4.8)	1.35 (0.50-2.06)	4.00	A	675	3.14	1.83	6.80 (2.0-8.0)	1.62 (0.50-2.06)	4.20	A
9 9 9	1.89	1.89	3.70 (1.5-4.8)	1.35 (0.50-2.06)	4.00	A	675	2.39	2.39	6.80 (2.0-7.8)	1.69 (0.50-2.06)	4.02	A
12 9 9	2.22	1.72	3.90 (1.5-4.8)	1.35 (0.50-2.06)	4.00	A	675	2.69	2.22	6.80 (2.0-7.8)	1.69 (0.50-2.06)	4.05	A
14 9 9	2.47	1.58	4.00 (1.5-4.8)	1.35 (0.50-2.06)	4.00	A	675	2.98	2.06	6.80 (2.0-8.0)	1.62 (0.50-2.06)	4.20	A
9 9 9	1.80	1.80	3.60 (1.5-4.8)	1.35 (0.50-2.06)	4.00	A	675	2.27	2.27	6.80 (2.0-7.9)	1.68 (0.50-2.06)	4.05	A
12 9 9	2.12	1.64	3.70 (1.5-4.8)	1.35 (0.50-2.06)	4.00	A	675	2.57	2.12	6.80 (2.0-7.9)	1.67 (0.50-2.06)	4.07	A

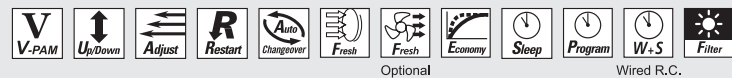
### ROA24LAT3

Indoor model for each room	COOLING OPERATION						HEATING OPERATION						
	Cooling Capacity			Power Input	EER	Cooling Class	Heating Capacity			Power Input	COP	Heating Class	
	Room 1	Room 2	Room 3				Room 1	Room 2	Room 3				
7 - -	2.30	-	2.30 (1.5-2.7)	0.65 (0.45-0.75)	3.54	A	325	2.70	-	2.70 (1.5-3.3)	0.83 (0.43-1.00)	3.25	C
9 - -	2.70	-	2.70 (1.5-3.3)	0.80 (0.45-1.09)	3.38	A	400	3.30	-	3.30 (1.5-4.2)	1.00 (0.42-1.30)	3.30	C
12 - -	3.50	-	3.50 (1.5-3.7)	1.09 (0.45-1.15)	3.21	A	545	3.80	-	3.80 (1.5-4.8)	1.26 (0.42-1.62)	3.02	D
14 - -	4.20	-	4.20 (1.5-4.8)	1.16 (0.45-1.41)	3.62	A	580	4.80	-	4.80 (1.5-5.8)	1.30 (0.42-1.70)	3.69	A
7 7	2.30	2.30	4.60 (1.5-4.9)	1.22 (0.50-1.43)	3.77	A	610	2.91	2.70	5.40 (1.5-6.1)	1.59 (0.52-1.93)	3.40	C
7 7	2.70	2.30	5.00 (1.5-5.7)	1.35 (0.50-1.81)	3.70	A	675	3.25	2.75	6.00 (2.0-6.4)	1.87 (0.52-2.06)	3.21	C
7 7	3.02	1.98	5.00 (1.5-6.1)	1.34 (0.50-2.06)	3.73	A	670	3.71	2.59	6.30 (2.0-6.5)	1.98 (0.52-2.06)	3.18	D
7 7	3.42	1.88	5.30 (1.5-6.6)	1.34 (0.50-2.06)	3.96	A	670	4.29	2.51	6.80 (2.0-7.1)	1.92 (0.50-2.06)	3.54	B
9 9	2.50	2.50	5.00 (1.5-6.2)	1.35 (0.50-2.06)	3.70	A	675	3.15	3.15	6.30 (2.0-6.5)	1.98 (0.52-2.06)	3.18	D
9 9	2.82	2.18	5.00 (1.5-6.3)	1.35 (0.50-2.06)	3.70	A	675	3.51	2.89	6.40 (2.0-6.8)	1.98 (0.52-2.06)	3.22	C
12 12	2.55	2.07	5.30 (1.5-6.7)	1.35 (0.50-2.06)	3.93	A	675	4.03	2.77	6.80 (2.0-7.2)	1.91 (0.50-2.06)	3.56	B
12 12	2.55	2.55	5.10 (1.5-6.3)	1.35 (0.50-2.06)	3.78	A	675	3.20	3.20	6.40 (2.0-6.6)	1.98 (0.52-2.06)	3.23	C
12 12	2.89	2.41	5.30 (1.5-6.7)	1.35 (0.50-2.06)	3.93	A	675	3.71	3.09	6.80 (2.0-7.3)	1.90 (0.50-2.06)	3.58	B
7 7 7	1.80	1.80	3.60 (1.5-4.8)	1.34 (0.50-2.06)	4.00	A	670	2.23	2.23	6.70 (2.0-7.7)			

# INVERTER

## COMPACT CASSETTE TYPE

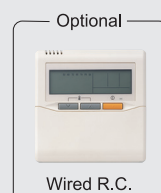
Powerful wide air flow & Quiet operation



Grille is an option



Wireless R.C.



Wired R.C.



For RCF12/14LA



For RCF18/RCA24LA



CLASS ALL  
A DC  
RCF12LA

CLASS ALL  
A DC  
RCF14LA

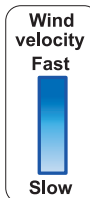
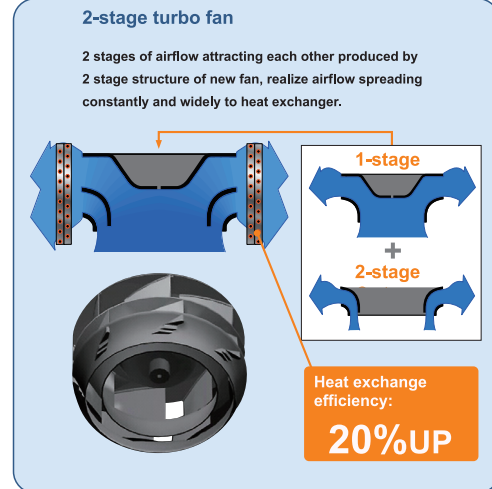
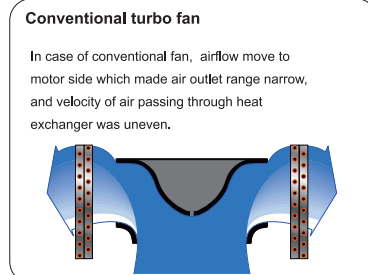
CLASS ALL  
A DC  
RCF18LA

CLASS ALL  
A DC  
RCA24LA

This unit are connectable to single or multi-split system, except for RCA24LA.

### 2-stage turbo fan **WORLD FIRST** \*1

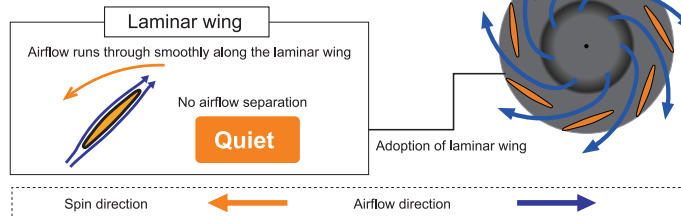
High efficiency design by 2 stage structure



### Quiet quality

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

Designed by CFD-analysis (fluid) simulations



### Quiet operation

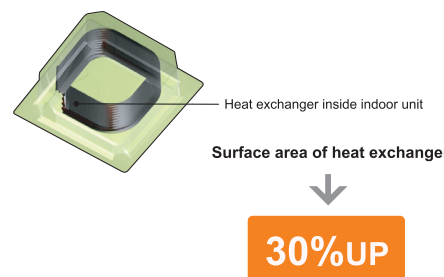
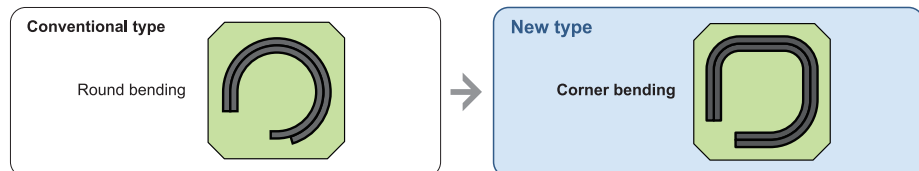
Top class cooling mode noise level in the industry attained

Fan speed	Noise level			
	12 type	14 type	18 type	24 type
High	37dB	38dB	38dB	49dB
Med	34dB	34dB	34dB	44dB
Low	30dB	30dB	30dB	36dB
Quiet	27dB	27dB	26dB	30dB

### High efficiency heat exchanger

Indoor unit heat exchanger (12/14/18 type)

Shape changed from round bending to corner bending



### Easy maintenance

#### ① Maintenance of fan motor and fan

Maintenance of fan motor and fan can be done easily after taking off the panel, since bell-mouth can be removed easily

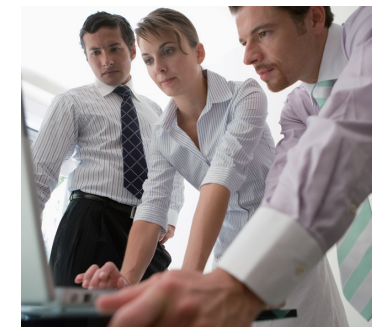
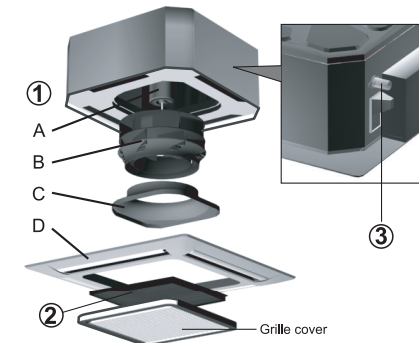
A : Fan motor B : 2-stage turbo fan  
C : Bell-mouth D : Panel

#### ② Long life filter

: standard equipment

#### ③ Adaptation of transparent drainage parts

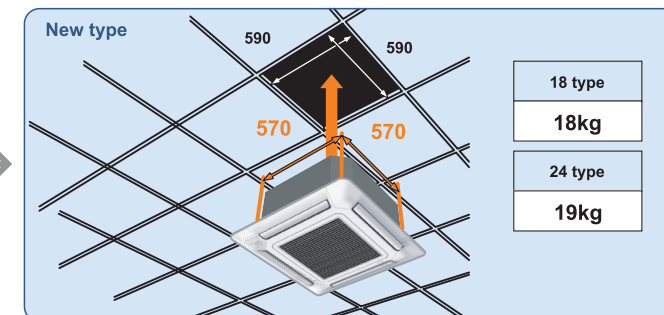
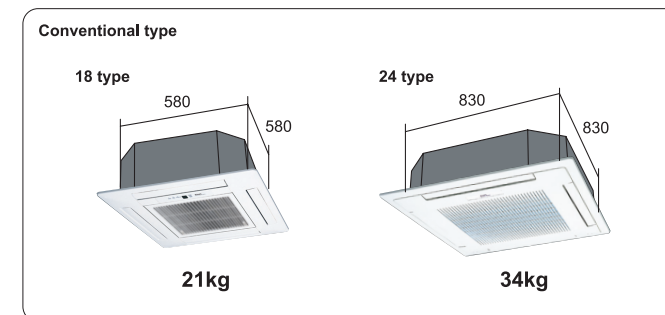
Easy check of operation of drain-up kit when you install



### Compact design

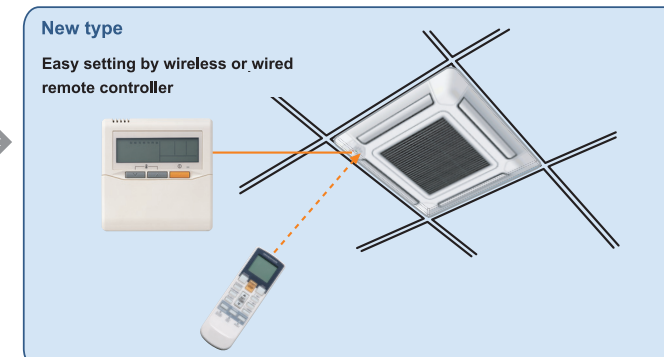
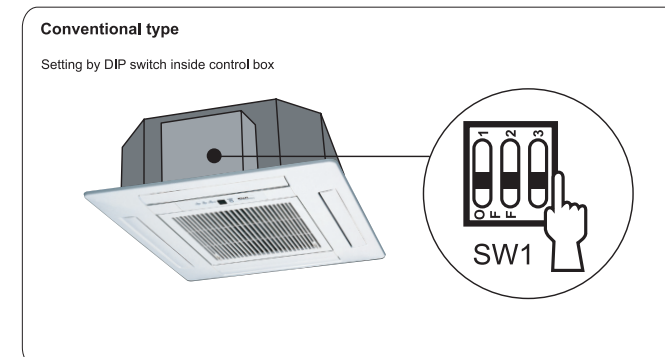
World first 24 type model in compact cassette category **WORLD FIRST** \*2

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



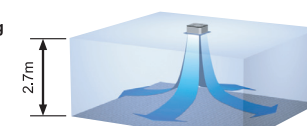
### Easy installation

Various work setting done from remote controller at the time of installation

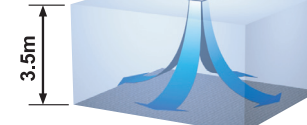


### High ceiling mode

Air reaches sufficiently up to 3.5m height, even it is compact cassette type



#### High ceiling



### Optional parts

Wired Remote Controller: UTB-XUD  
Air Outlet Shutter Plate: UTR-YDZB

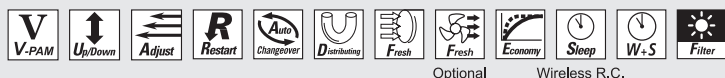
### SPECIFICATIONS

Reference	Model No.		Indoor Unit			
	Outdoor Unit		RCF12LA	RCF14LA	RCF18LA	RCA24LB
Input Power		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	kW	4.10	5.00	6.00	8.00
Power Consumption	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66	2.21/2.21
	EER - Energy Class		3.33-A	3.21-A	3.21-A	3.21-A
COP - Energy Class	Cooling	W/W	3.69-A	3.71-A	3.61-A	3.61-A
	Heating		4.6/4.9	5.8/5.9	7.1/7.3	9.7/9.7
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	37/34/30/27	38/34/30/27	38/34/30/26	49/44/36/30
	Heating		47	49	50	52
	Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	600/1780	680/1910	680/2000
Net Dimension	Indoor/Grille	mm	245×570×570/ 50×700×700	245×570×570/ 50×700×700	245×570×570/ 50×700×700	245×570×570/ 50×700×700
		kg(lbs)	15(33)/2.6(6)	15(33)/2.6(6)	15(33)/2.6(6)	17(37)/2.6(6)
Weight	Outdoor	mm	578×790×300	578×790×300	578×790×300	578×790×315
		kg(lbs)	40(88)	40(88)	40(88)	44(97)
Piping Connections(Small/Large)		mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88
Drain Pipe Diameter (Inner/Outer)		mm	19.4/25.4	19.4/25.4	19.4/25.4	19.4/25.4
Max Pipe Length (Chargeless)		m	25	25	25	30
Max Height Difference		m	15	15	15	20
Operation Range	Cooling	°C	-10~46	-10~46	-10~46	-10~46
	Heating		-15~24	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A	R410A
Grille			CG-FFB	CG-FFB	CG-FFB	CG-FFB

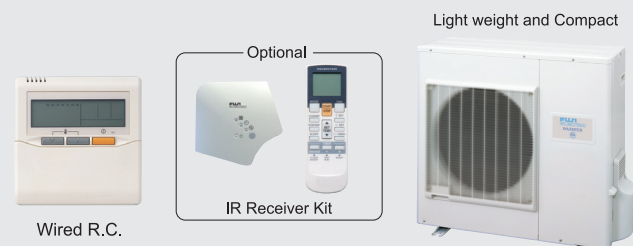
\*1: October 18, 2006, announcement at IKK2006. As fan for air conditioner (Our company's investigation)  
\*2: As of January 2006, size of outdoor unit minimized in 5.3kW and 7.0kW class European size (compact) ceiling cassette air conditioner. (Our company's investigation)

# INVERTER CASSETTE TYPE

Powerful wide air flow & Quiet operation



Grille is an option

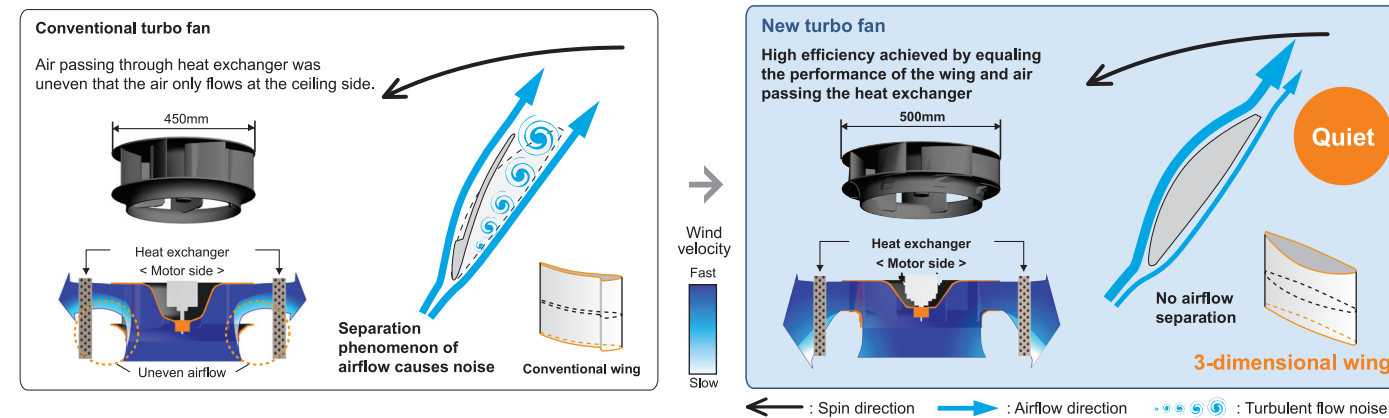


Light weight and Compact

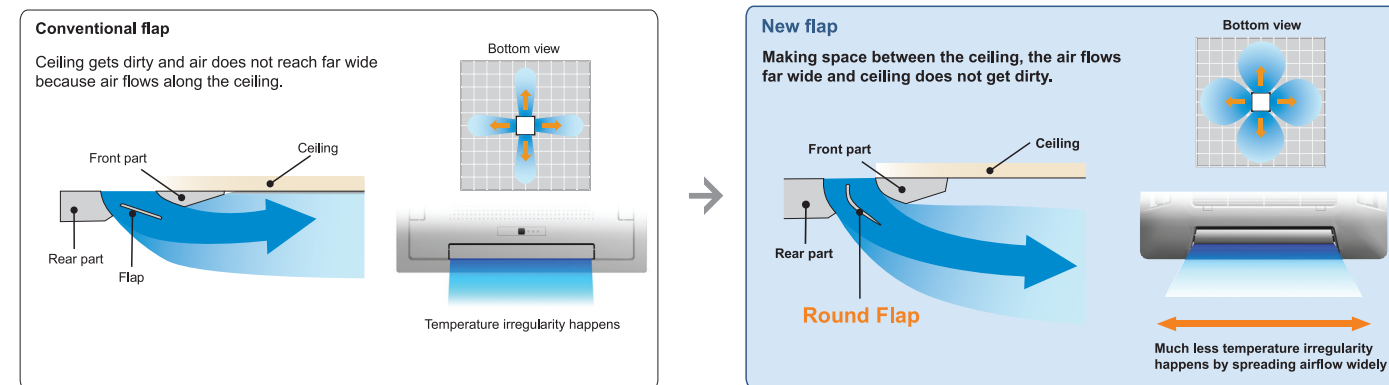
**NEW** CLASS **A** ALL **DC** RCA30LB CLASS **A** ALL **DC** RCA36LB

## Powerful wide flow & Quiet operation

High efficiency turbo fan with 3-dimensional wing



## Improvement of the flap



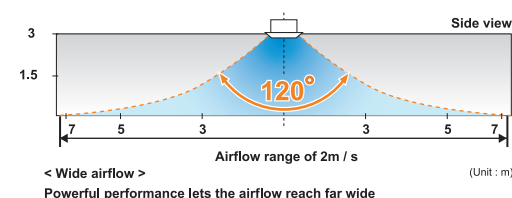
## Quiet operation

Fan speed	Noise level	
	30 type	36 type
High	40dB	43dB
Med	38dB	38dB
Low	36dB	36dB
Quiet	32dB	32dB

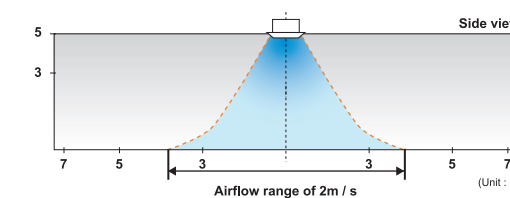


## Wide & powerful airflow

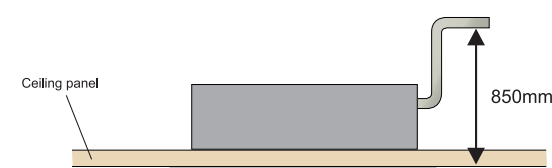
Airflow range when the flap is upward



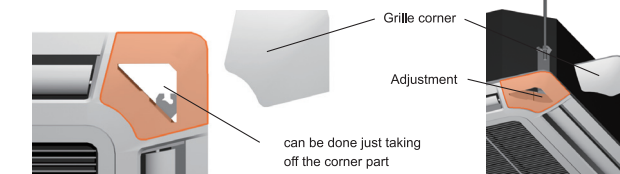
Airflow range when the flap is downward



## High lift drain pump



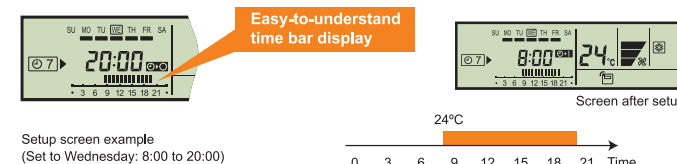
## Adjustment of knot is possible after installation



## Built-in timers

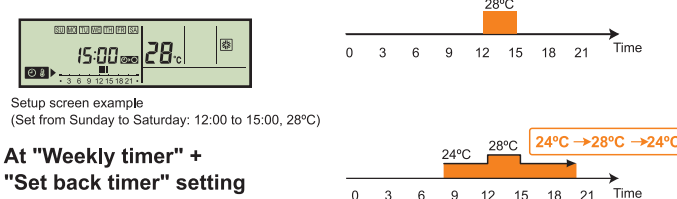
### Weekly timer

Possible to set ON/OFF time to operate twice each day of the week

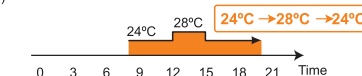


### Setback timer

Possible to set temperature for two time spans and for each day of the week



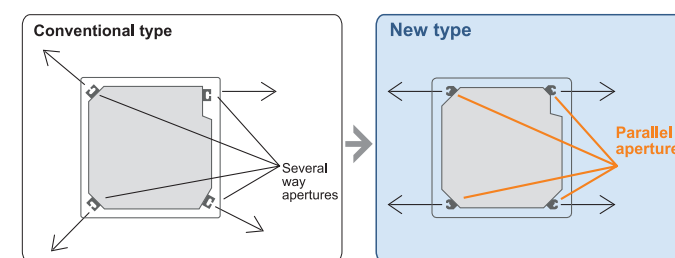
### At "Weekly timer" + "Set back timer" setting



## Filter sign

Announces timing of changing the filter

## One way aperture installation



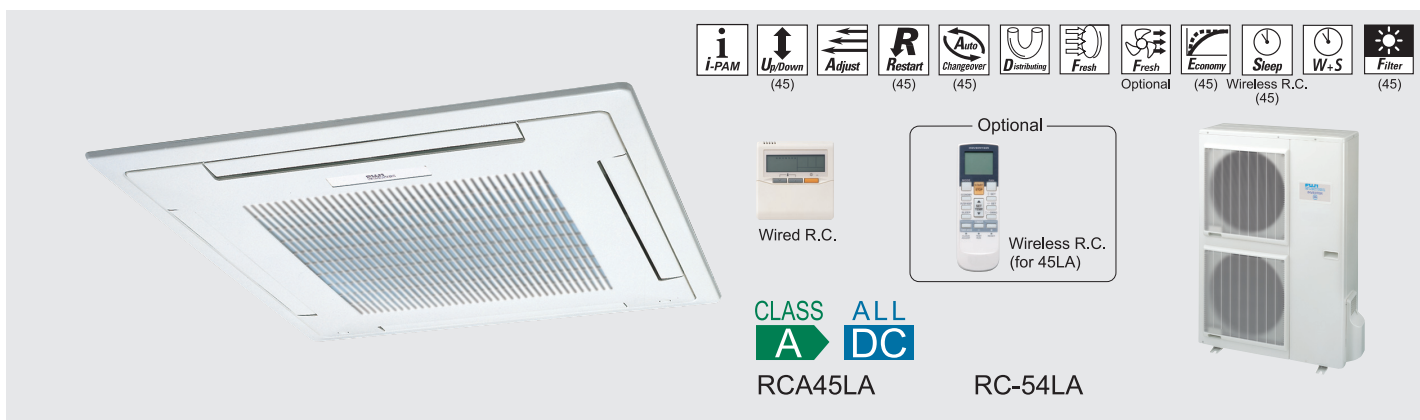
## Optional parts

- IR Receiver Kit: UTY-LRHXA1
- Wide Panel: UTG-AGYA-W
- Panel Spacer: UTG-BGYA-W
- Air Outlet Shutter Plate: UTR-YDZC
- Fresh Air Intake Kit: UTY-VXGA

## SPECIFICATIONS

Model No.	TENTATIVE			
	RCA30LB	RCA36LB		
Reference	Indoor Unit	ROA30LB	ROA36LB	
Input Power	Outdoor Unit	230/1/50	230/1/50	
	V/ø/Hz			
Capacity	Cooling	8.50	10.00	
	Heating	10.00	11.20	
Power Consumption	Cooling/Heating	2.65/2.77	3.11/3.02	
	kW			
EER - Energy Class	Cooling	3.21-A	3.21-A	
	W/W			
COP - Energy Class	Heating	3.61-A	3.71-A	
Running Current	Cooling/Heating	11.6/12.2	13.7/13.3	
	A			
Moisture Removal	I/h	2.50	3.50	
Noise (Indoor)	Cooling / H/M/L/Q	40/38/36/32	43/38/36/32	
	dB(A)			
Noise (Outdoor)	Cooling	54	54	
Airflow (High)	Indoor/Outdoor	1600/3600	1800/4000	
	m <sup>3</sup> /h			
Net Dimension H x W x D	Indoor/Grille	mm	288x840x840	288x840x840
		mm	50x950x950	50x950x950
	Outdoor	kg(lbs)	26(58)/5.5(12)	26(58)/5.5(12)
		kg(lbs)	830x900x330	830x900x330
Weight		62(136)	62(136)	
Piping Connections(Small/Large)	mm	9.52/15.88	9.52/15.88	
	mm	22.0/25.6	22.0/25.6	
Drain Pipe Diameter (Inner/Outer)				
Max Pipe Length (Chargeless)	m	50	50	
Max Height Difference		30	30	
Operation Range	Cooling	°C	-15~46	-15~46
	Heating		-15~24	-15~24
Refrigerant			R410A	R410A
Grille			CG-GFA	CG-GFA

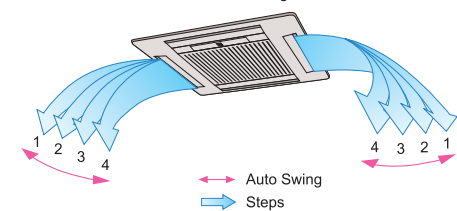
# INVERTER CASSETTE TYPE



## Comfortable airflow

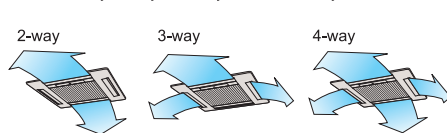
### 4 step swing

Auto air flow direction and auto swing



### 2-4 way air flow system

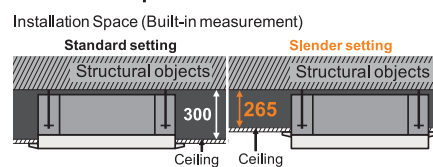
Select 2-way, 3-way or 4-way air flow to suit your needs.



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

## Flexible installation

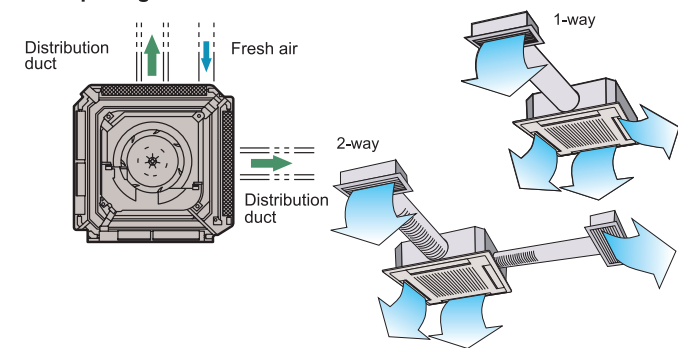
Installation is done by "Standard setting" with more than 300mm of space. "Slender setting" lets it suitable for minimum 265mm installation space.



## Duct connection hole opening

Fresh air can be introduced through this opening

Conditioned air can be distributed by means of a distribution duct



## Easy installation (For 45LA)

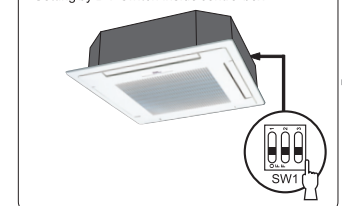
Main work settings can be done easily from the remote controller at installation

### Main work settings

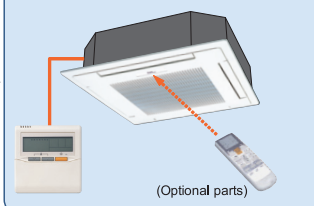
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

### Conventional type

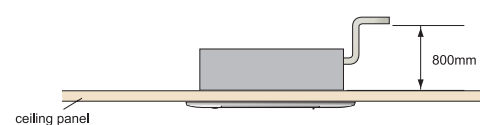
Setting by DIP switch inside control box



### Setting by wireless or wired remote controller



## Condensate pump lift to 800mm



## Optional parts

Wireless Remote Controller: UTB-XNA (For 45LA)

Additional Grille: UTG-AGEA-W

Simple Remote Controller: UTB-XPB (For 54LU)

## SPECIFICATIONS

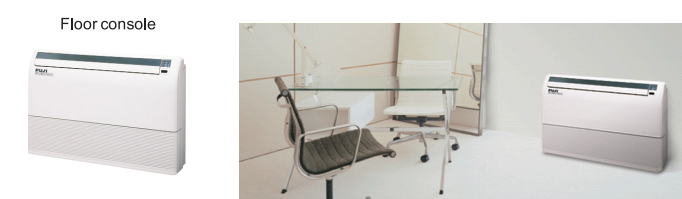
Reference	Model No.		RCA45LA	RC-54LA
	Indoor Unit	Outdoor Unit	ROA45LA	RO-54LA
Input Power	V/ø/Hz		230/1/50	230/1/50
Capacity	Cooling	kW	12.50	13.30
	Heating	kW	14.00	16.00
Power Consumption	Cooling/Heating	kW	3.89/3.77	5.45/4.95
EER - Energy Class	Cooling		3.21-A	2.44
COP - Energy Class	Heating	W/W	3.71-A	3.23
Running Current	Cooling/Heating	A	17.0/16.5	23.8/21.6
Moisture Removal		l/h	4.50	5.50
Noise (Indoor)	Cooling   H/M/L/Q	dB(A)	52/47/42/39	50/48/45
Noise (Outdoor)	Cooling		55	54
Airflow (High)	Indoor/Outdoor	m³/h	1750/6600	1700/6600
Net Dimension	Indoor/Grille	mm	296x830x830/ 30x940x940	296x830x830 30x940x940
		kg(lbs)	32(70)/ 7(16)	33(72)/ 7(16)
Weight	Outdoor	mm	1290x900x330	1290x900x330
		kg(lbs)	98(216)	105(231)
Piping Connections(Small/Large)		mm	9.52/15.88	9.52/15.88
Drain Pipe Diameter (Inner/Outer)		mm	32.0/37.0	32.0/37.0
Max Pipe Length (Chargeless)		m	50	70
Max Height Difference		m	30	30
Operation	Cooling	°C	-15~46	-15~43
Range	Heating	°C	-15~24	-15~24
Refrigerant			R410A	R410A

# INVERTER FLOOR/CEILING UNIVERSAL TYPE



## Flexible installation

Example for floor installation



Example for ceiling installation



## Low ambient

High efficiency compressor and newly added sensor for monitoring the refrigerant temperature makes possible fine-tuned inverter control which, in turns, make it possible to correspond to lower outdoor temperatures.

### 18 type

Conventional type		Cooling	Heating
Cooling	Heating	-10 to 46°C	-15 to 24°C
0 to 43°C	-10 to 24°C		

### 24 type

Conventional type		Cooling	Heating
Cooling	Heating	-10 to 46°C	-15 to 24°C
0 to 43°C	-10 to 24°C		

## Easy installation

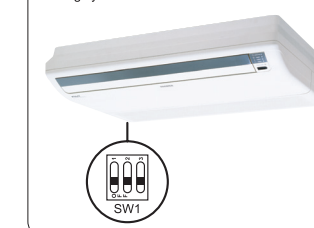
Main work settings can be done easily from the remote controller at installation

### Main work settings

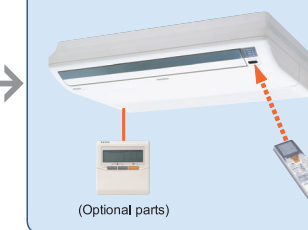
- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

### Conventional type

Setting by DIP switch inside control box

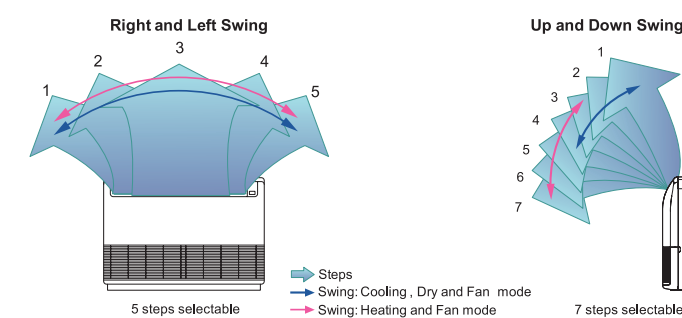


### Setting by wireless or wired remote controller



## Double auto swing

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



## Optional parts

Wired Remote Controller: UTB-XUD

## SPECIFICATIONS

Reference	Model No.		RYF18LA	RYF24LA
	Indoor Unit	Outdoor Unit	ROA18LA	ROA24LA
Input Power	V/ø/Hz		230/1/50	230/1/50
Capacity	Cooling	kW	5.20	7.10
	Heating	kW	6.00	8.00
Power Consumption	Cooling/Heating	kW	1.62/1.66	2.21/2.21
EER - Energy Class	Cooling		3.21-A	3.21-A
COP - Energy Class	Heating	W/W	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)	44/41/35/32	49/45/41/36
Noise (Outdoor)	Cooling		50	52
Airflow (High)	Indoor/Outdoor	m³/h	780/2000	980/2470
Net Dimension	Indoor	mm	199x990x655	199x990x655
		kg(lbs)	27(60)	27(60)
Weight	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
Max Height Difference		m	15	20
Operation	Cooling	°C	-10~46	-10~46
Range	Heating	°C	-15~24	-15~24
Refrigerant			R410A	R410A

# INVERTER CEILING TYPE

Easily concealed in any installation



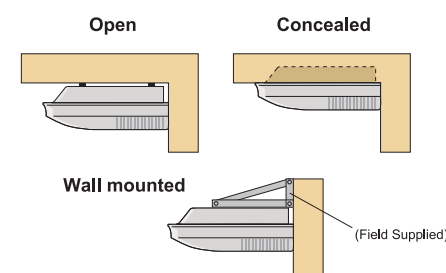
CLASS **A** ALL **DC**  
RYA30LB **NEW**

CLASS **A** ALL **DC**  
RYA36LB **NEW**

CLASS **A** ALL **DC**  
RYA45LA

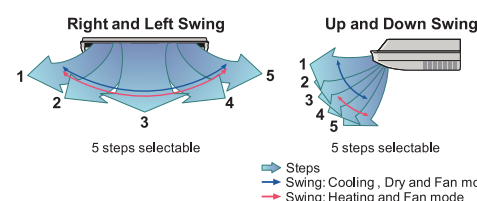


## Installation



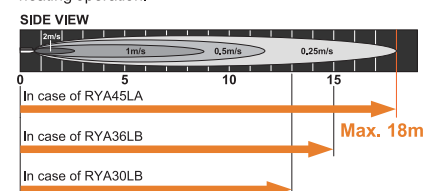
## Multi auto swing, long distance airflow

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



## Long distance airflow

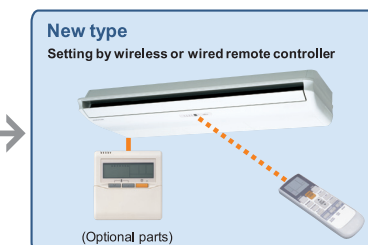
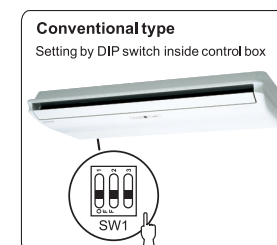
Due to air blasting performance of max. 18m, long-reach airflow is available for both cooling and heating operation.



## 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



## Light weight & Compact

**Outdoor unit**  
Drastically downsized compared with the conventional model



## 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.

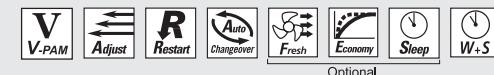
## Optional parts

- Flange (Round): UTD-RF204
- Wired Remote Controller: UTB-XUD
- Drain Pump Unit: UTR-DPB24T

## SPECIFICATIONS

Reference	Model No.	Indoor Unit			
		RYA30LB	RYA36LB	RYA45LA	
Input Power		230/1/50	230/1/50	230/1/50	
Capacity	Cooling	kW	8.50	9.40	12.50
	Heating	kW	10.00	11.20	14.00
Power Consumption	Cooling/Heating	kW	2.65/2.77	2.93/3.02	3.89/3.77
EER - Energy Class	Cooling	W/W	3.21-A	3.21-A	3.21-A
COP - Energy Class	Heating	W/W	3.61-A	3.71-A	3.71-A
Running Current	Cooling/Heating	A	11.6/12.1	12.8/13.2	17.0/16.5
Moisture Removal		l/h	2.50	3.00	4.50
Noise (Indoor)	Cooling	H/M/L/Q	45/43/37/32	47/43/37/32	49/45/39/34
Noise (Outdoor)	Cooling		53	54	55
Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	1660/3600	1900/4000	2100/6600
Net Dimension	Indoor	mm	240×1660×700	240×1660×700	240×1660×700
	Outdoor	mm	830×900×330	830×900×330	1290×900×330
Weight	Indoor	kg(lbs)	46(101)	46(101)	46(101)
	Outdoor	kg(lbs)	62(136)	62(136)	98(216)
Piping Connections(Small/Large)		mm	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	21.5/26.0
Max Pipe Length (Chargeless)		m	50	50	50
Max Height Difference		m	30	30	30
Operation	Cooling	°C	-15~46	-15~46	-15~46
	Heating	°C	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

# INVERTER COMPACT DUCT TYPE

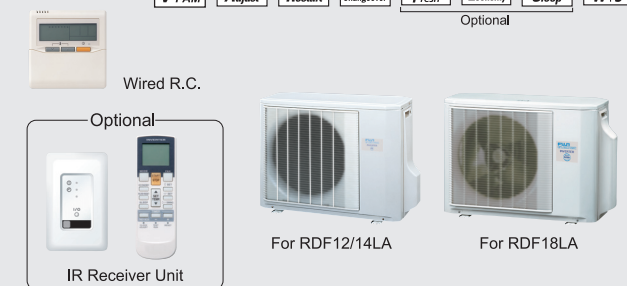


**NEW** CLASS **A** ALL **DC**  
RDF12LA

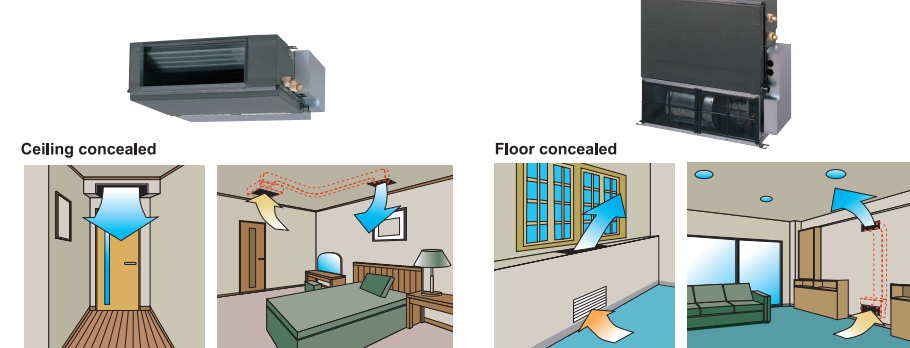
CLASS **A** ALL **DC**  
RDF14LA

CLASS **A** ALL **DC**  
RDF18LA

This units are connectable to single or multi-split system.

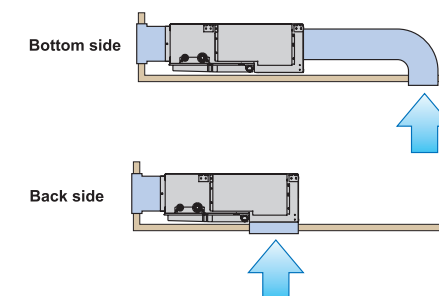


## Flexible installation



## Air-intake

Air intake direction can be selected to match the installation site

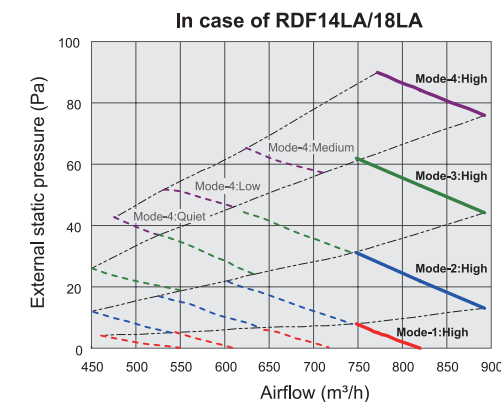
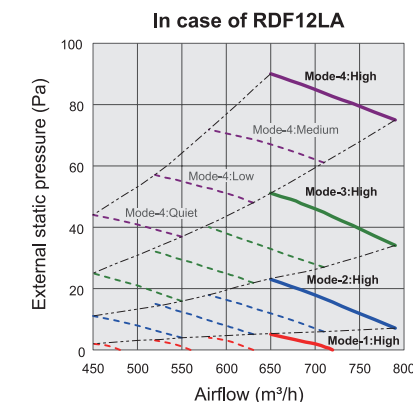


## Static pressure mode setting

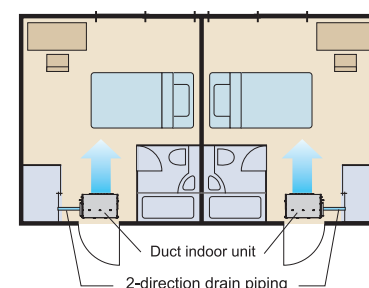
Static pressure mode can be selected from 4 modes, to meet wide-ranging installation conditions.

Static pressure range (High speed mode)

RDF12LA/14LA/18LA **0 to 90 Pa**



## 2-direction drain piping



## Optional parts

- Remote Sensor Unit: UTD-RS100
- External Control Set: UTD-ECS5A
- Drain Pump Unit: UTZ-PX1BBA
- IR Receiver Unit: UTY-LRHX1

## SPECIFICATIONS

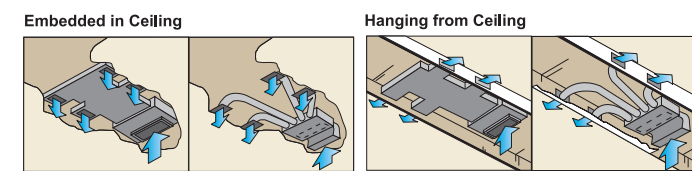
Reference	Model No.	Indoor Unit			
		RDF12LA	RDF14LA	RDF18LA	
Input Power		230/1/50	230/1/50	230/1/50	
Capacity	Cooling	kW	3.50	4.30	5.20
	Heating	kW	4.10	5.00	6.00
Power Consumption	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66
EER - Energy Class	Cooling	W/W	3.33-A	3.21-A	3.21-A
COP - Energy Class	Heating	W/W	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	32/30/28/26	33/31/29/27	33/31/29/27
Noise (Outdoor)	Cooling		47	49	50
Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	720/1780	820/1910	820/2000
Net Dimension	Indoor	mm	217×953×595	217×953×595	217×953×595
	Outdoor	mm	578×790×300	578×790×300	578×790×300
Weight	Indoor	kg(lbs)	23(51)	23(51)	23(51)
	Outdoor	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
Max Height Difference		m	15	15	15
Operation	Cooling	°C	-10~46	-10~46	-10~46
	Heating	°C	-15~24	-15~24	-15~24
Refrigerant			R410A	R410A	R410A

The measurement static pressure is 0 Pa.

# INVERTER DUCT TYPE



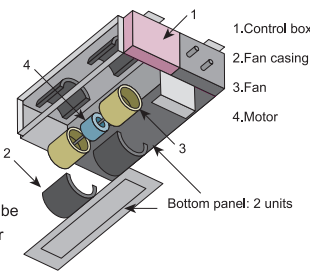
## Installation styles



## Easy maintenance

In the case of rear suction type, as seen from lower rear part

Structural improvement is attained by making the bottom panel two pieces, front and rear, and the internal fan casing is also made dismantlable in two pieces, namely, upper and lower ones. The motor and fan maintenance and dismantling can be made easily by removing the rear panel and lower part of the casing with the main chassis installed.

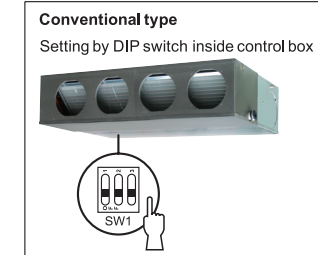


## Easy installation

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

### Main work settings

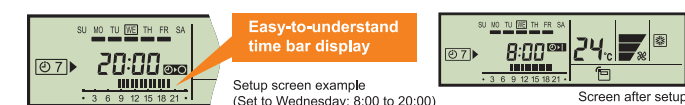
- Static pressure mode setting
- Auto restart
- Temperature adjustment when cooling/heating



## Built-in timers

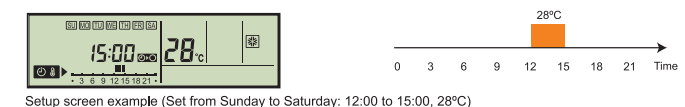
### Weekly timer

Possible to set ON/OFF time to operate twice each day of the week

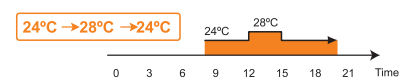


### Setback timer

Possible to set temperature for two time spans and for each day of the week



At "Weekly timer" + "Set back timer" setting



## 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 : UTD-PX1NBA
- IR Receiver Unit : UTY-LRHX1



## SPECIFICATIONS

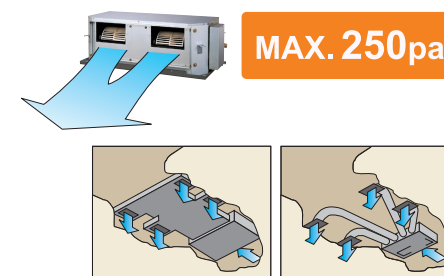
Reference	Model No.	Indoor Unit		RDA24LA	RDA30LB	RDA36LB	RDA45LA	
		Outdoor Unit		ROA24LA	ROA30LB	ROA36LB	ROA45LA	
Input Power		V/ø/Hz	230/1/50				230/1/50	
			kW	7.10		8.50		9.40
Capacity	Cooling	8.00				10.00		
		Heating	2.21/2.21		2.65/2.68		2.93/3.10	
Power Consumption	Cooling/Heating		3.21-A		3.21-A		3.21-A	
		EER - Energy Class	3.61-A		3.73-A		3.61-A	
COP - Energy Class	Cooling		9.7/9.7				11.6/11.7	
		Heating	2.5		2.5		3.0	
Running Current	Cooling/Heating		A				A	
		Moisture Removal	l/h				l/h	
Noise (Indoor)	Cooling		H/M/L/Q		dB(A)		dB(A)	
		31/29/27/25		42/37/32/29		42/37/32/29		
Noise (Outdoor)	Cooling	52				55		
		m³/h		m³/h		m³/h		
Airflow (High)	Indoor/Outdoor	1100/2470		2100/3600		2100/4000		
		mm		mm		mm		
Net Dimension H x W x D	Indoor	270x1135x700		270x1135x700		270x1135x700		
		kg(lbs)		kg(lbs)		kg(lbs)		
Weight	Outdoor	578x790x315		830x900x330		830x900x330		
		kg(lbs)		kg(lbs)		kg(lbs)		
Piping Connections(Small/Large)		6.35/15.88		9.52/15.88		9.52/15.88		
		mm		mm		mm		
Drain Pipe Diameter (Inner/Outer)		36.0/38.0		22.0/25.6		22.0/25.6		
		m		m		m		
Max Pipe Length (Chargeless)		30		50		50		
		m		m		m		
Max Height Difference		20		30		30		
		Operation	Cooling		°C		°C	
Range	-10~46		-15~46		-15~46			
	Refrigerant	-15~24		-15~24		-15~24		
R410A		R410A		R410A				

The measurement static pressure of RDA24LA,45LA is 30 Pa and RDA30LB, 36LB is 47 Pa.

# INVERTER DUCT TYPE (High static pressure)

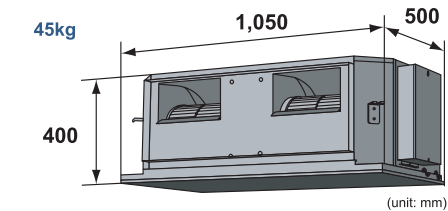


## Design also corresponding to high static pressure



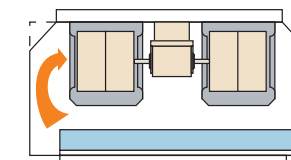
## Easy installation (Compact size & Lightweight)

By downsizing basic chassis and reducing materials weight, compact size and lightweight are realized

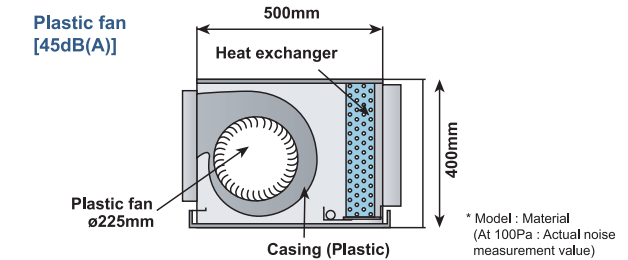


## Low noise

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



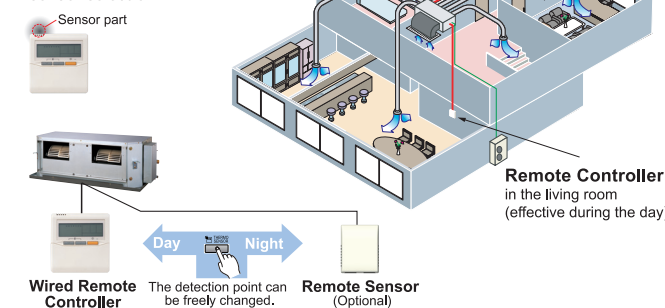
Low noise is realized by adopting plastic case, plastic fan



## Accurate & Comfortable

- New amenity space can be offered by installing a thermo sensor in the remote controller.
- Because the remote controller has a switching function, the user can select the sensor position. (Room temperature sensor selection)

### Example of room temperature sensor selection



## Optional parts

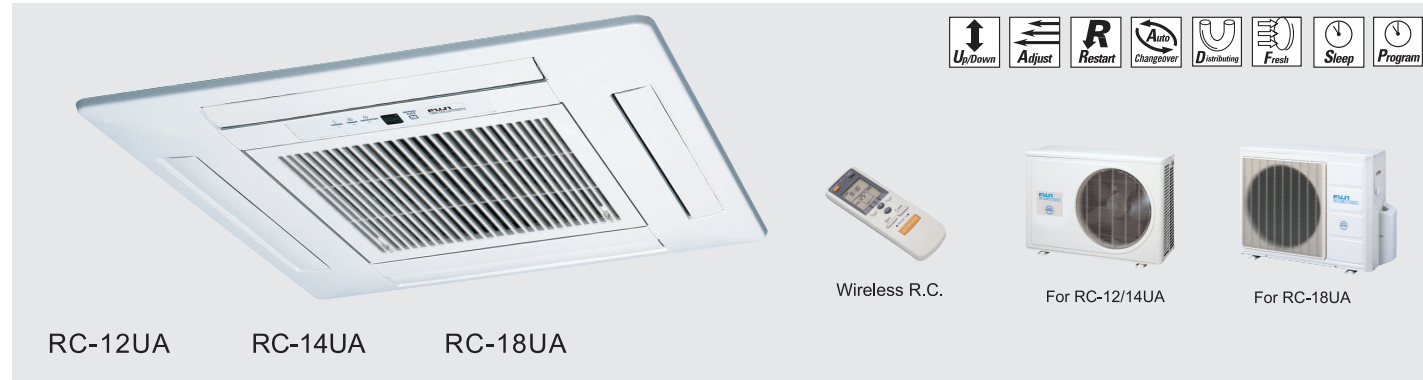
- Long Life Filter: UTD-LF60KA
- Remote Sensor Unit: UTD-RS100
- External Control Set: UTD-ECS5A
- Simple Remote Controller: UTD-XPB

## SPECIFICATIONS

Reference	Model No.	Indoor Unit		RD-45LA	RD-54LA	
		Outdoor Unit		RO-45LA	RO-54LA	
Input Power		V/ø/Hz	230/1/50		230/1/50	
			kW	12.50		14.00
Capacity	Cooling	14.00		16.00		
		Heating	4.3/3.8		5.36/4.7	
Power Consumption	Cooling/Heating		2.91		2.61	
		EER - Energy Class	3.68		3.40	
COP - Energy Class	Cooling		18.9/16.7			
		Heating	23.6/20.6			
Running Current	Cooling/Heating		A			
		Moisture Removal	l/h			
Noise (Indoor)	Cooling		H/M/L		dB(A)	
		49/45/42		49/45/42		
Noise (Outdoor)	Cooling	54				
		m³/h		m³/h		
Airflow (High)	Indoor/Outdoor	3500/6600		3500/6600		
		mm		mm		
Net Dimension H x W x D	Indoor	400x1050x500		400x1050x500		
		kg(lbs)		kg(lbs)		
Weight	Outdoor	1,290x900x330		1,290x900x330		
		kg(lbs)		kg(lbs)		
Piping Connections(Small/Large)		9.52/15.88		9.52/15.88		
		mm		mm		
Drain Pipe Diameter (Inner/Outer)		21.5/25.4		21.5/25.4		
		m		m		
Max Pipe Length (Chargeless)		70		70		
		m		m		
Max Height Difference		30		30		
		Operation	Cooling		°C	
Range	-15~43		-15~43			
	Refrigerant	-15~24		-15~24		
R410A		R410A				

The measurement static pressure is 100 Pa.

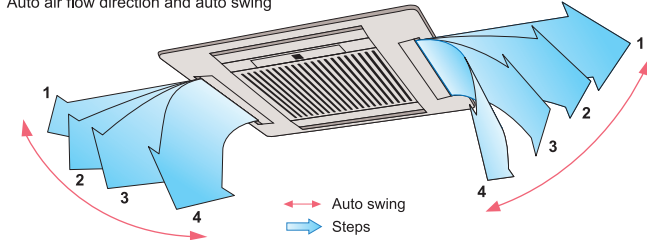
# COMPACT CASSETTE TYPE



## Comfortable air flow

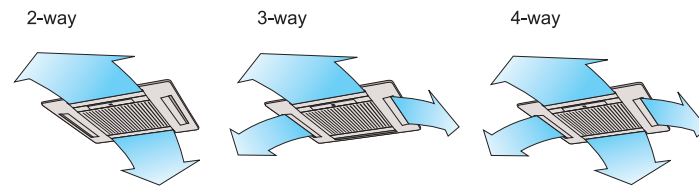
### 4 step swing

Auto air flow direction and auto swing



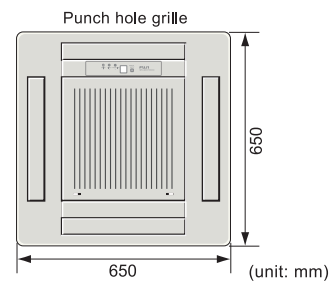
### 2-4 way air flow system

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

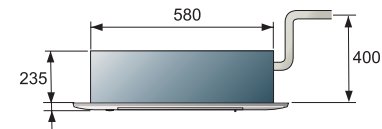


## Compact size

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

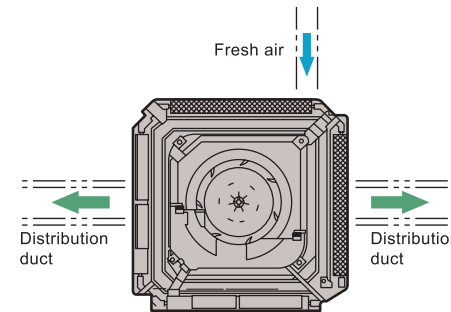


### Condensate pump lift to 400mm

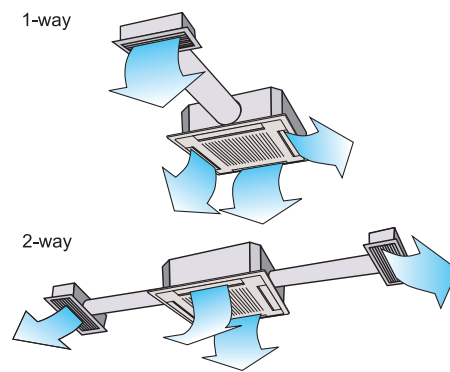


## Duct connection hole opening

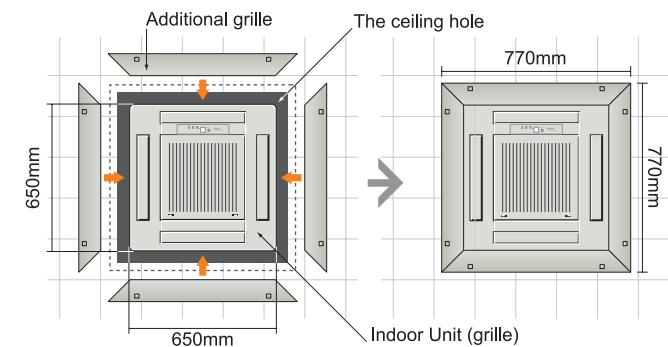
Fresh air can be introduced through this opening



Conditioned air can be distributed by means of a distribution duct



## Additional grille (optional parts)



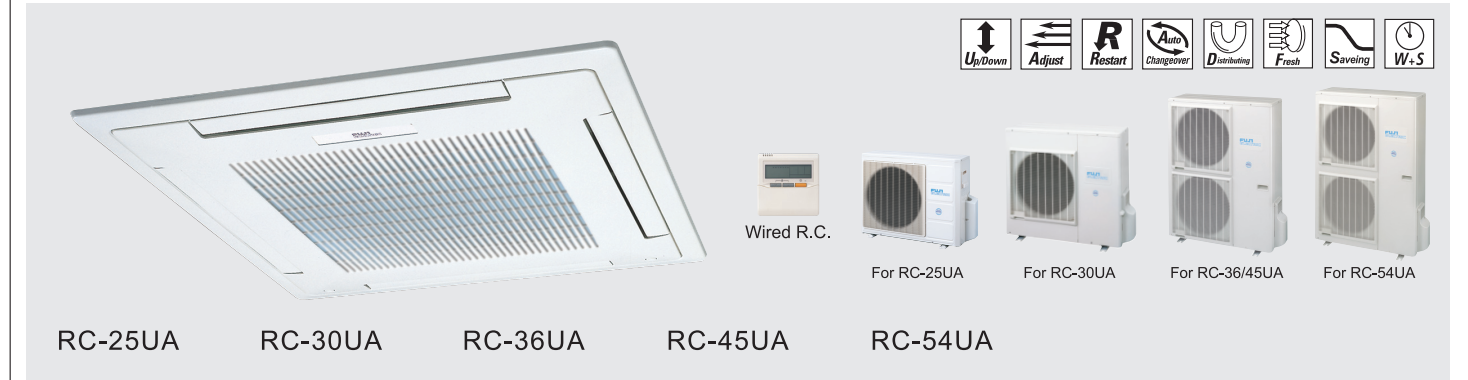
## Optional parts

Additional Grille: UTG-AGDA-W

## SPECIFICATIONS

Reference	Model No.		RC-12UA	RC-14UA	RC-18UA
	Indoor Unit	Outdoor Unit	RO-12UA	RO-14UC	RO-18UB
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	3.55	3.95	4.85
	Heating	kW	4.00	4.60	5.40
Power Consumption	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	W/W	3.31-C	3.24-C	2.70-D
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	42/39/36	42/39/36	44/41/37
Noise (Outdoor)	Cooling	H/M/L	49	49	52
Airflow (High)	Indoor/Outdoor	m³/h	550/1600	550/1600	620/3200
Net Dimension H x W x D	Indoor	mm	235 x 580 x 580	235 x 580 x 580	235 x 580 x 580
	Outdoor	mm	530x750x250	530x750x250	650 x 830 x 320
Weight		kg(lbs)	34(75)	35(77)	52(115)
Piping Connections(Small/Large)		mm	6.35/9.52	6.35/12.7	6.35/12.7
Max Pipe Length (Chargeless)		m	20	20	20
Max Height Difference		m	8	8	8
Operation	Cooling	°C	0~43	0~43	0~43
Range	Heating	°C	-7~24	-7~24	-7~24
Refrigerant			R410A	R410A	R410A
Grille			CG-E	CG-E	CG-E

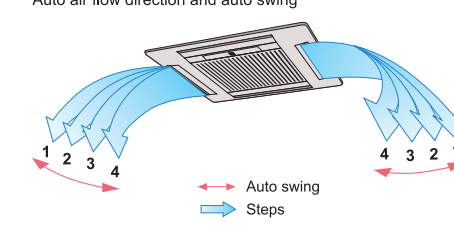
# CASSETTE TYPE



## Comfortable air flow

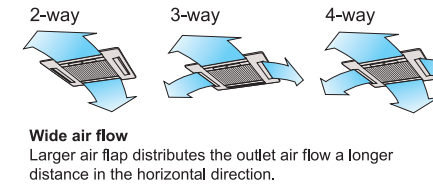
### 4 step swing

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

## Flexible installation

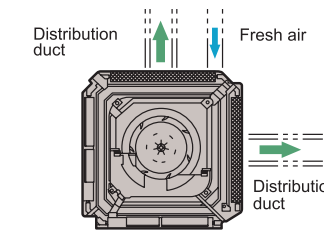
Installation is done by "Standard setting" with more than 300mm (250mm) of space. "Slender setting" lets it suitable for minimum 265mm (215mm) installation space.

Installation Space (Built-in measurement)

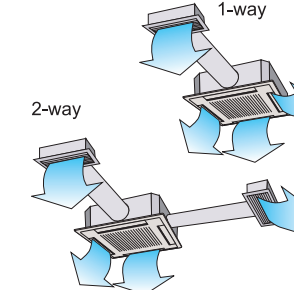
	Standard setting	Slender setting
25UU/30UU	300mm	265mm
36UU/45UU/54UU	300mm	265mm

## Duct connection hole opening

Fresh air can be introduced through this opening



Conditioned air can be distributed by means of a distribution duct

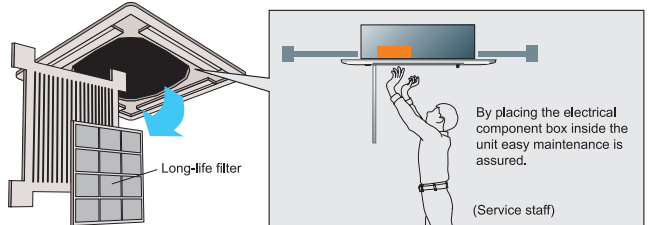


## Easy maintenance

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.

## Condensate pump lift to 800mm



## Optional parts

Additional Grille: UTG-AGEA-W  
Simple Remote Controller : UTB-XPB

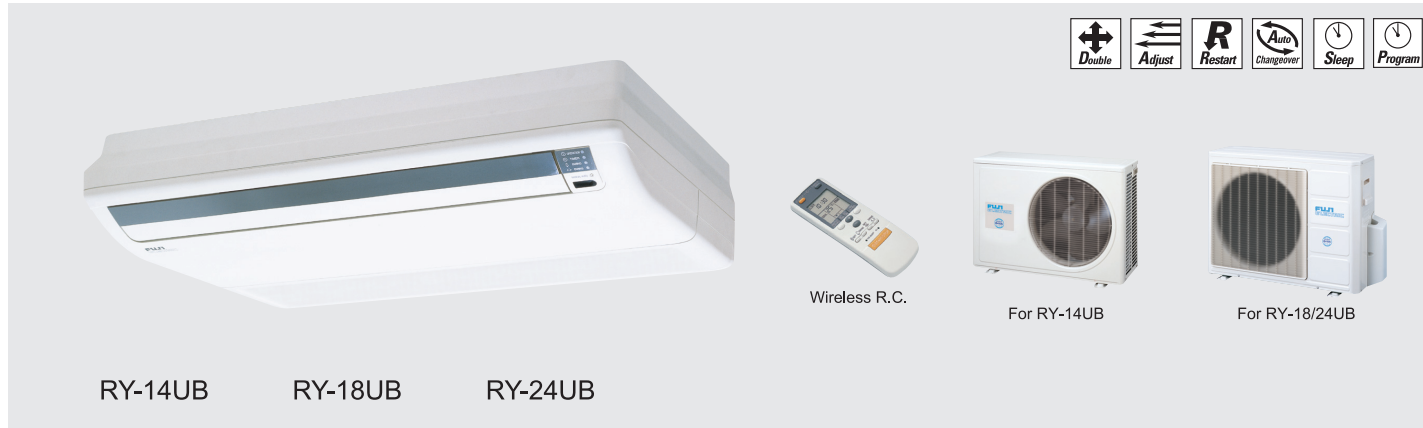


## SPECIFICATIONS

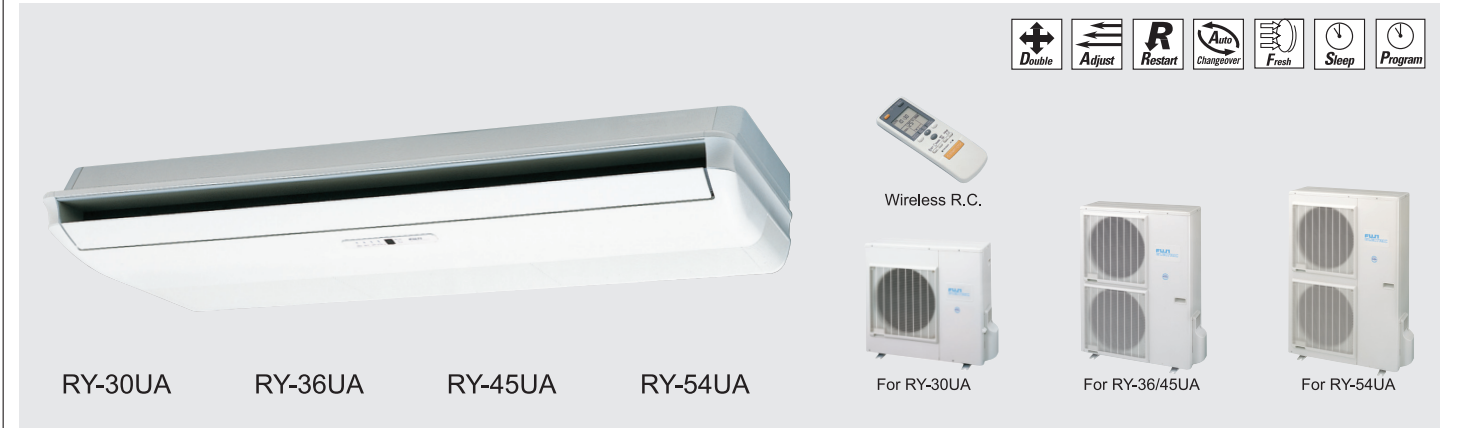
Reference	Model No.		RC-25UA	RC-30UA	RC-36UA	RC-45UA	RC-54UA
	Indoor Unit	Outdoor Unit	RO-25UA	RO-30UA	RO-36UA	RO-45UA	RO-54UA
Input Power		V/ø/Hz	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
Capacity	Cooling	kW	7.00	8.40	10.50	12.70	14.50
	Heating	kW	7.80	9.50	11.80	14.30	16.50
Power Consumption	Cooling/Heating	kW	2.65/2.35	2.95/2.78	3.48/3.65	4.38/4.39	5.16/5.3
EER - Energy Class	Cooling	W/W	2.64-D	2.85-C	3.02-B	2.9	2.81
COP - Energy Class	Heating	W/W	3.32-D	3.42-C	3.23-B	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	44/42/39	46/44/39	48/44/41	49/47/43	52/48/45
Noise (Outdoor)	Cooling	H/M/L	53	53	54	54	54
Airflow (High)	Indoor/Outdoor	m³/h	1100/3200	1250/3300	1500/6100	1550/6100	1700/6300
Net Dimension H x W x D	Indoor	mm	246x830x830	246x830x830	296x830x830	296x830x830	296x830x830
	Outdoor	mm	650x830x320	830x900x330	1165x900x330	1165x900x330	1290x900x330
Weight		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
Max Height Difference		m	15	15	30	30	30
Operation	Cooling	°C	0~43	0~43	0~43	0~43	0~43
Range	Heating	°C	-7~24	-7~24	-7~24	-7~24	-10~24
Refrigerant			R410A	R410A	R410A	R410A	R410A



# FLOOR/CEILING UNIVERSAL TYPE



# CEILING TYPE



## Flexible installation

### Example for floor installation

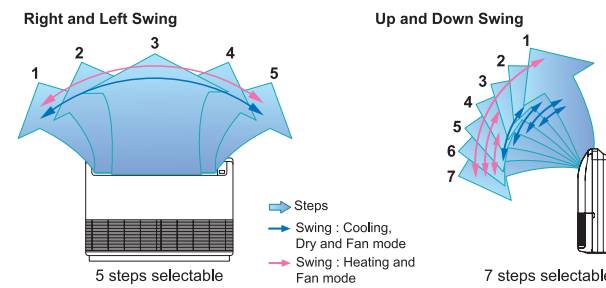


### Example for ceiling installation



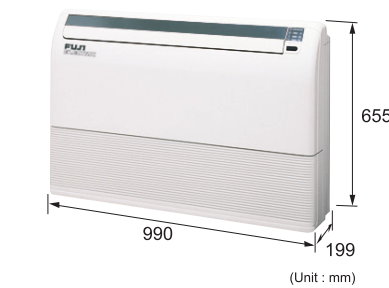
## Double auto swing

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



## Compact design

Symmetrical, slim and compact design



## Super vane

Double-flap "Super Vane" with newly developed special configuration boosts air flow sending cool air quickly to every corner of the room

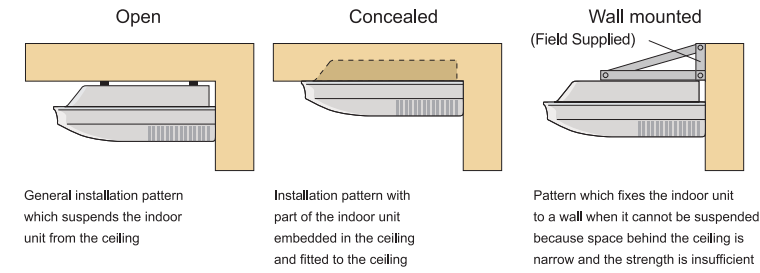
## Auto-closing louvre

This function is common to all indoor unit types except the duct type

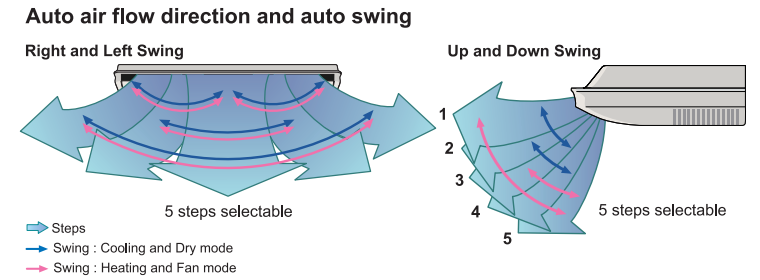
## SPECIFICATIONS

Model No.	Indoor Unit	RY-14UB	RY-18UB	RY-24UB
Reference	Outdoor Unit	RO-14UC	RO-18UB	RO-24UB
Input Power	V/ø/Hz	230/1/50	230/1/50	230/1/50
Capacity	Cooling	4.00	5.40	6.50
	Heating	4.70	6.00	7.40
Power Consumption	Cooling/Heating	1.42/1.35	1.90/1.85	2.42/2.30
EER - Energy Class	Cooling	2.82-C	2.84-C	2.69-D
COP - Energy Class	Heating	3.48-C	3.24-C	3.22-D
Running Current	Cooling/Heating	A	6.3/6.0	8.6/8.3
Moisture Removal	l/h	1.5	2.0	2.5
Noise (Indoor)	Cooling / H/M/L	dB(A)	41/38/35	47/42.5/38
Noise (Outdoor)	Cooling	dB(A)	49	52
Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	640/1600	780/3200
Net Dimension H x W x D	Indoor	mm	199x990x655	199x990x655
	Outdoor	mm	530x750x250	650x830x320
Weight	Indoor	kg(lbs)	28(62)	28(62)
	Outdoor	kg(lbs)	35(77)	52(115)
Piping Connections(Small/Large)	mm	6.35/12.7	6.35/15.88	9.52/15.88
Max Pipe Length (Chargeless)	m	15	20	20
Max Height Difference	m	8	8	8
Operation Range	Cooling	°C	0~43	0~43
	Heating	°C	-6~24	-6~24
Refrigerant		R410A	R410A	R410A

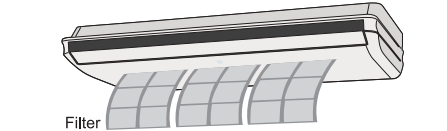
## Installation



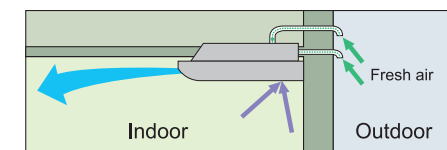
## Double auto swing



## Long-life filter



## Fresh air intake



## Drain water lift-up mechanism (Optional)



## Optional parts

Flange (Round): UTD-RF204  
Drain Pump Unit: UTR-DPB24T

## Thin & slender form

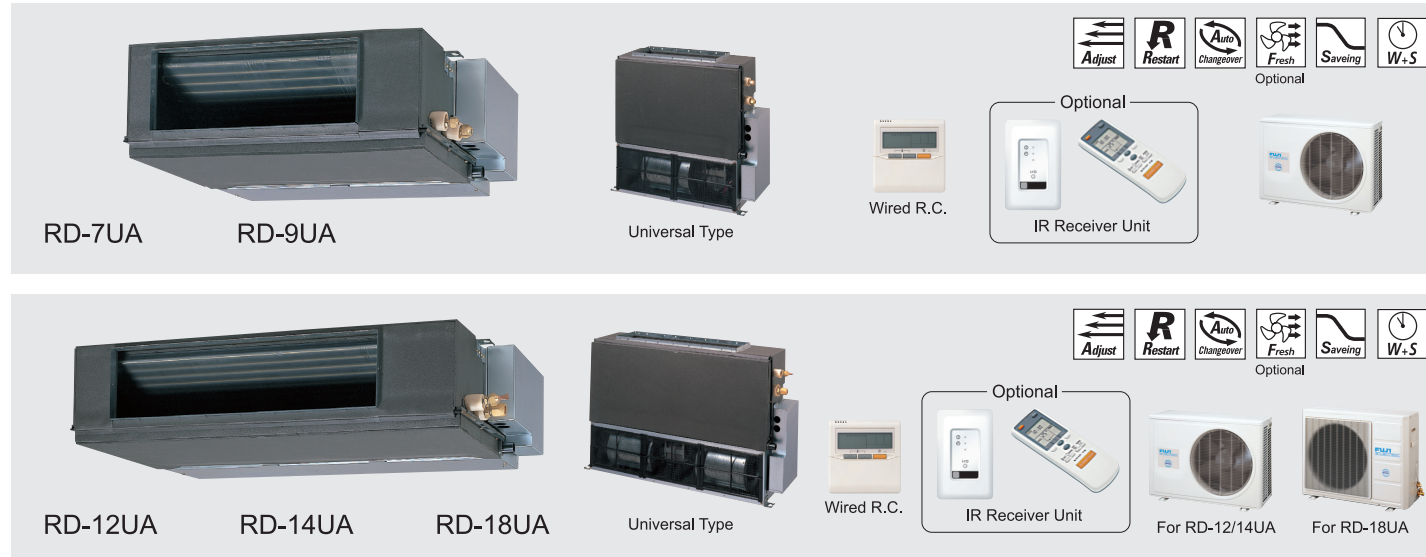
Thin and Slender



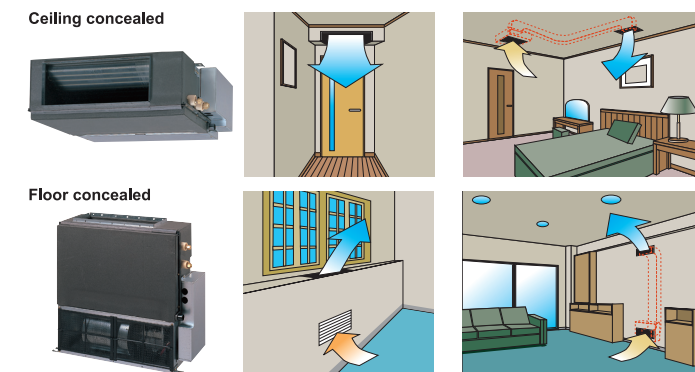
## SPECIFICATIONS

Model No.	Indoor Unit	RY-30UA	RY-36UA	RY-45UA	RY-54UA
Reference	Outdoor Unit	RO-30UC	RO-36UA	RO-45UA	RO-54UA
Input Power	V/ø/Hz	230/1/50	400/3/50	400/3/50	400/3/50
Capacity	Cooling	8.40	10.50	12.70	14.50
	Heating	9.50	11.80	14.30	16.50
Power Consumption	Cooling/Heating	2.95/2.78	3.48/3.45	4.38/4.39	5.16/5.30
EER - Energy Class	Cooling	2.85-C	3.02-B	2.90	2.81
COP - Energy Class	Heating	3.42-C	3.42-B	3.26	3.11
Running Current	Cooling/Heating	A	13.6/13.1	5.9/6.2	7.7/7.7
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
Noise (Outdoor)	Cooling	dB(A)	53	54	54
Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	1450/3300	1660/6100	1850/6100
Net Dimension H x W x D	Indoor	mm	240x1660x700	240x1660x700	240x1660x700
	Outdoor	mm	830x900x330	1165x900x330	1165x900x330
Weight	Indoor	kg(lbs)	69(152)	94(207)	113(249)
	Outdoor	kg(lbs)	830x900x330	1165x900x330	1290x900x330
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
Max Height Difference	m	15	30	30	30
Operation Range	Cooling	°C	0~43	0~43	0~43
	Heating	°C	-7~24	-10~24	-10~24
Refrigerant		R410A	R410A	R410A	R410A

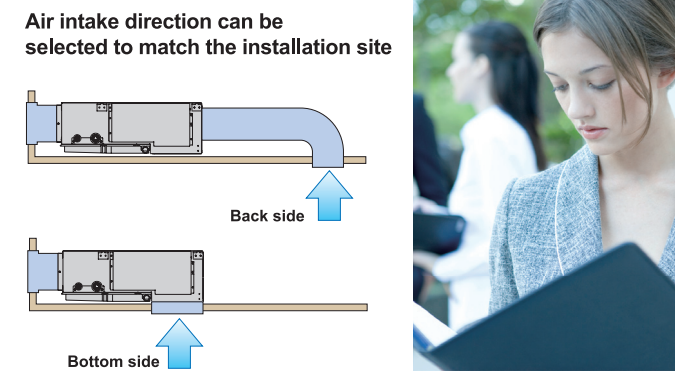
# COMPACT DUCT TYPE



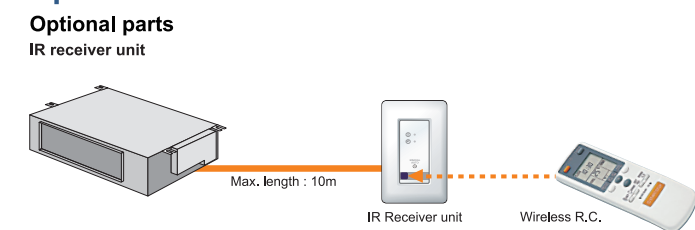
## Flexible installation



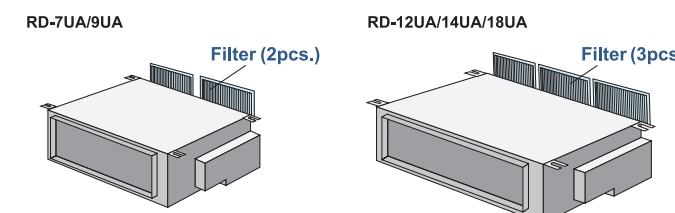
## Air-intake



## Optional function for comfort

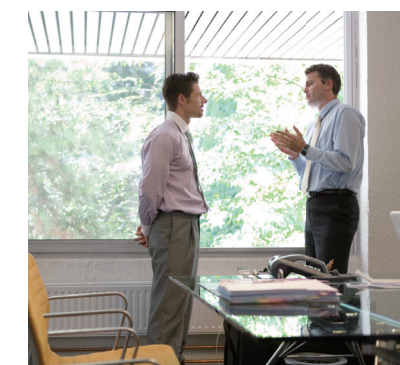


## Filter



## Optional parts

Remote Sensor Unit: UTD-RS100  
Simple Remote Controller: UTB-XPB  
Drain Pump Unit: UTZ-PX1BBA  
IR Receiver Unit: UTY-LR1JX1



## SPECIFICATIONS

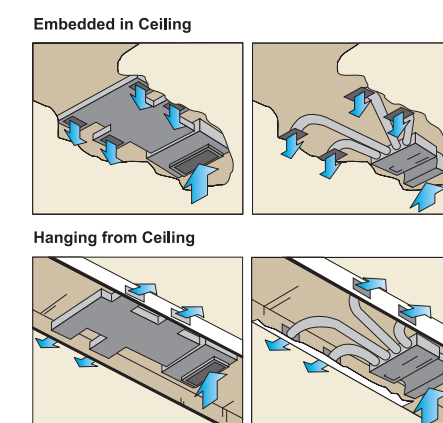
Model No. Reference	Indoor Unit		RD-7UA	RD-9UA	RD-12UA	RD-14UA	RD-18UA
	Outdoor Unit		RO-7UA	RO-9UA	RO-12UA	RO-14UA	RO-18UA
Input Power		V/ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.15	2.70	3.50	4.00	5.40
	Heating	kW	2.45	3.10	4.00	4.70	6.00
Power Consumption	Cooling/Heating	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	W/W	3.22-C	3.23-C	3.31-C	3.48-C	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 (High)	Indoor/Outdoor	m³/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)
Weight	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	20	20
Max Height Difference		m	8	8	8	8	8
Operation Range	Cooling	°C	0~43	0~43	0~43	0~43	0~43
	Heating	°C	-6~24	-6~24	-6~24	-6~24	-6~24
Refrigerant			R410A	R410A	R410A	R410A	R410A

The measurement static pressure is 0 Pa.

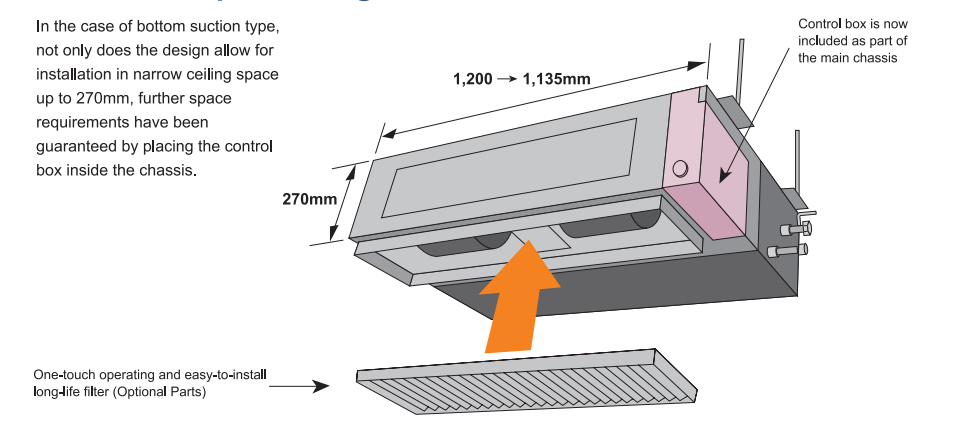
# DUCT TYPE



## Installation styles

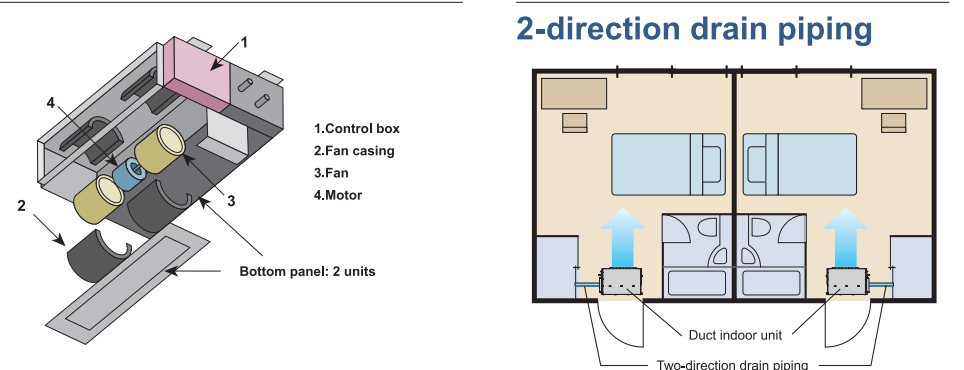


## Slim & Compact design



## Easy maintenance

In the case of rear suction type, as seen from lower rear part  
Structural improvement is attained by making the bottom panel two pieces, front and rear, and the internal fan casing is also made dismountable in two pieces, namely, upper and lower ones. The motor and fan maintenance and dismounting can be made easily by removing the rear panel and lower part of the casing with the main chassis installed.



## Optional parts

Remote Sensor Unit: UTD-RS100  
External Control Set: UTD-ECS5A  
Simple Remote Controller: UTB-XPB  
Drain Pump Unit: UTZ-PX1NBA

## SPECIFICATIONS

Model No. Reference	Indoor Unit		RD-25UB	RD-30UA	RD-36UA(1)	RD-36UA	RD-45UA
	Outdoor Unit		RO-25UA	RO-30UA	RO-36UA(1)	RO-36UA	RO-45UA
Input Power		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	kW	7.70	9.50	12.70	12.70	14.30
Power Consumption	Cooling/Heating	kW	2.65/2.33	2.99/2.63	3.60/3.65	3.6/3.65	4.38/4.39
EER - Energy Class	Cooling	W/W	2.64-D	2.81-C	2.92-C	2.92-C	2.9
COP - Energy Class	Heating	W/W	3.30-D	3.61-C	3.48-C	3.48-C	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 (High)	Indoor/Outdoor	m³/h	1100/3200	1400/3300	1750/6100	1750/6100	1800/6100
Net Dimension H x W x D	Indoor	mm	270x1135x700	270x1135x700	270x1135x700	270x1135x700	270x1135x700
		kg(lbs)	43(95)	43(95)	43(95)	43(95)	45(99)
Weight	Outdoor	mm	650 x 830 x 320	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
Max Height Difference		m	15	15	30	30	30
Operation Range	Cooling	°C	0~43	0~43	0~43	0~43	0~43
	Heating	°C	-7~24	-7~24	-10~24	-10~24	-10~24
Refrigerant			R410A	R410A	R410A	R410A	R410A

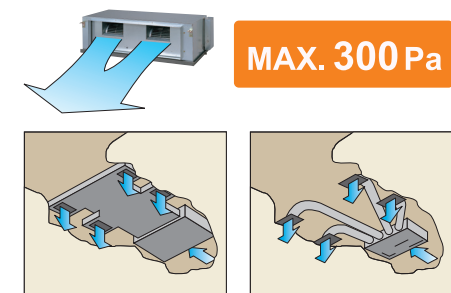
The measurement static pressure is 100 Pa.

# DUCT TYPE (High static pressure)



## Design also corresponding to high static pressure

Model: RD-90TC

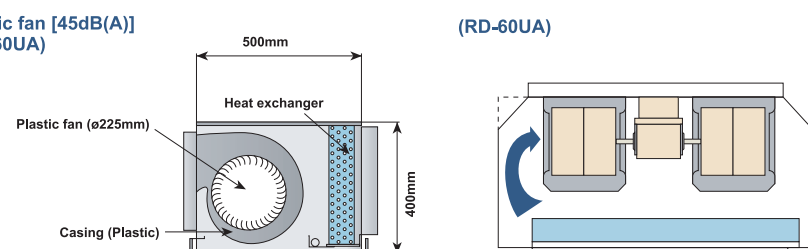


## Low noise

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)] (RD-60UA)



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

## Pursuance of amenity performance

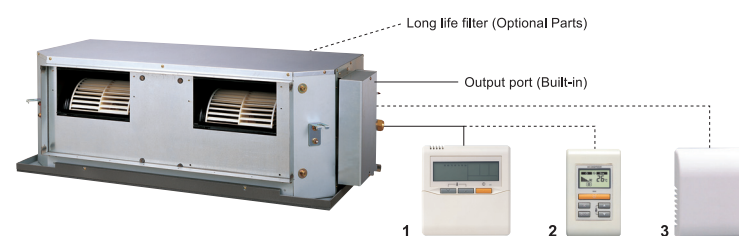
Various remote controllers and sensors can be selected

### 1.Wired Remote Controller with Thermo Sensor

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

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

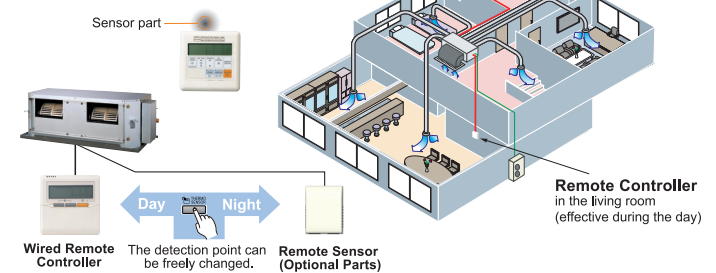
### 3.Remote Sensor (Optional Parts)



## Accurate & Comfortable

- New amenity space can be offered by installing a thermo sensor in the remote controller.
- Because the remote controller has a switching function, the user can select the sensor position. (Room temperature sensor selection)

### Example of room temperature sensor selection



## Optional parts

Long-Life Filter: UTD-LF60KA (For RD-60UA)

Simple Remote Controller: UTB-XPB

Remote Sensor Unit: UTD-RS100

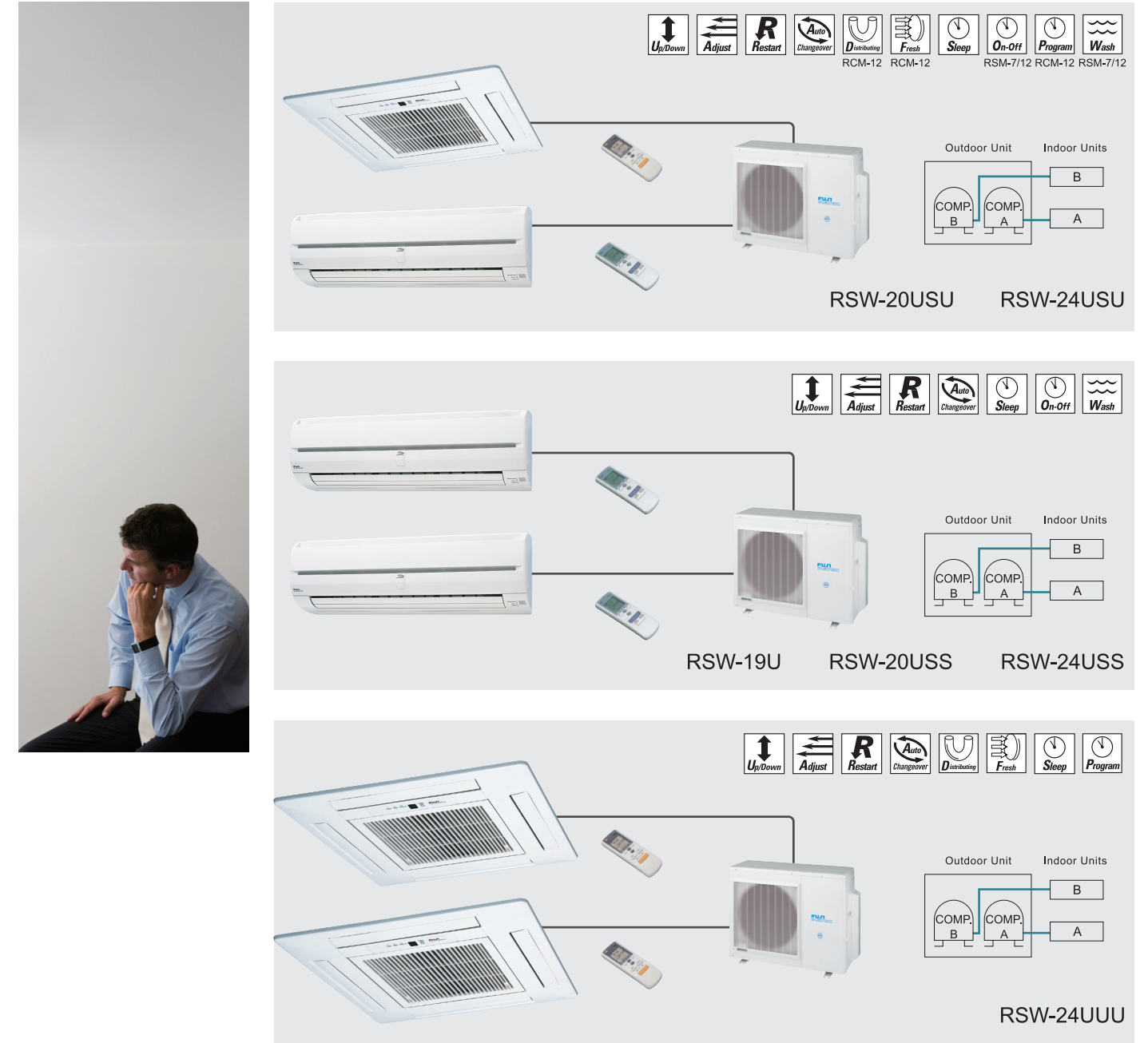
External Control Set: UTD-ECS5 (For RD-60UA)

## SPECIFICATIONS

Model No.	Indoor Unit		RD-60UA	RD-90TC
	Outdoor Unit		RO-60UA	RO-90TC
Reference	Outdoor Unit		ROM-19UC2	ROM-20UB2
Input Power	V/ø/Hz		230/1/50	230/1/50
Capacity	Cooling	kW	2.85	5.60
	Heating	kW	3.25	6.50
Power Consumption	Cooling/Heating	kW	0.99/1.03	1.86/1.9
	Cooling/Heating	W/W	3.01-B	2.81-C
EER - Energy Class	Cooling	W/W	-	3.12-C
COP - Energy Class	Heating	A	4.6/4.6	8.6/8.6
Running Current	Cooling/Heating	A	10.2/9.8	19.5/19.5
Moisture Removal	l/h		4.0	7.5
Noise (Indoor)	Cooling	H/M/L	49/45/42	50.5
	Heating		54	59
Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	3500/6300	4300/9800
Net Dimension H x W x D	Indoor	kg(lbs)	50(110)	85(187)
	Outdoor	mm	1290x900x330	1,380x1,300x650
Weight	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
Max Height Difference	m		30	30
Operation Range	Cooling	°C	0~43	0~46
	Heating	°C	-10~24	-10~21
Refrigerant			R410A	R407C

The measurement static pressure of RD-60UA is 100Pa and RD-90TC is 196Pa.

# MULTI TYPE SYSTEMS (2 rooms)



## SPECIFICATIONS

Model No.	Indoor Unit		RSM-9UB	RSM-9UBx2	RSM-12UB	RSM-12UB + RSM-7UB	RSM-12UB	RSM12UAx2	RSM-12UB	RSM-12UB + RCM-12UA	RCM-12UA	RCM-12UAx2
	Outdoor Unit		ROM-19UC2	ROM-20UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2
Reference	Outdoor Unit		ROM-19UC2	ROM-20UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2	ROM-24UB2
Input Power	V/ø/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.85	5.60	3.45,2.25	5.70	3.50	7.00	3.5/3.50	7.00	3.50	7.00
	Heating	kW	3.25	6.50	4.00,2.70	6.70	4.10	8.20	4.10/4.10	8.20	4.10	8.20
Power Consumption	Cooling/Heating	kW	0.99/1.03	1.86/1.9	1.30/86.1,380.95	2.03 / 2.15	1.3/1.38	2.55/2.55	1.30/1.38	2.55	1.3/1.38	2.55
	Cooling/Heating	W/W	-	3.01-B	-	2.81-C	-	2.75-D	-	2.75-D	-	2.75-D
EER - Energy Class	Cooling	W/W	-	3.42-B	-	3.12-C	-	3.22-D	-	3.22-D	-	3.22-D
COP - Energy Class	Heating	A	4.6/4.6	8.6/8.6	5.8/4.1,6.1/4.3	9.2/9.7	5.8/6.1	11.2/11.4	5.8/6.1	11.2/11.4	5.8/6.1	11.2/11.4
Running Current	Cooling/Heating	A	10.2/9.8	19.5/19.5	19.5/19.5	19.5/19.5	19.5/19.5	19.5/19.5	19.5/19.5	19.5/19.5	19.5/19.5	19.5/19.5
Moisture Removal	l/h		4.0	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Noise (Indoor)	Cooling	H/M/L	36/34/29	-	38/37/35,38/33/31	-	38/37/33	-	38/37/33, 42/39/36	-	42/39/36	-
	Heating		51	-	52	-	52	-	52	-	52	-
Airflow (High)	Indoor/Outdoor	m <sup>3</sup> /h	470/3200	470x2/3200	520,420/3000	520+420/3000	520/3200	520x2/3200	520,550/3200	520+550/3200	550/3200	550x2/3200
Net Dimension H x W x D	Indoor	kg(lbs)	63(139)	66(146)	70(154)	70(154)	70(154)	70(154)	70(154)	70(154)	70(154)	70(154)
	Outdoor	mm	257x808x187	257x808x187	257x808x187	257x808x187	257x808x187	257x808x187	257x808x187	257x808x187	257x808x187	257x808x187
Weight	kg(lbs)		8(18)	8(18)	8(18)	8(18)	8(18)	8(18)	8(18)	8(18)	8(18)	
Piping Connections(Small/Large)	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	
Max Pipe Length (Chargeless)	m		15 + 15	15 + 15	15 + 15	15 + 15	15 + 15	15 + 15	15 + 15	15 + 15	15 + 15	
Max Height Difference	m		8	8	8	8	8	8	8	8	8	
Operation Range	Cooling	°C	10~43	10~43	10~43	10~43	10~43	10~43	10~43	10~43	10~43	
	Heating	°C	-5~24	-5~24	-5~24	-5~24	-5~24	-5~24	-5~24	-5~24	-5~24	
Refrigerant			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	





# MEMO

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