

SkyAir

Single-Split Non Inverter Series

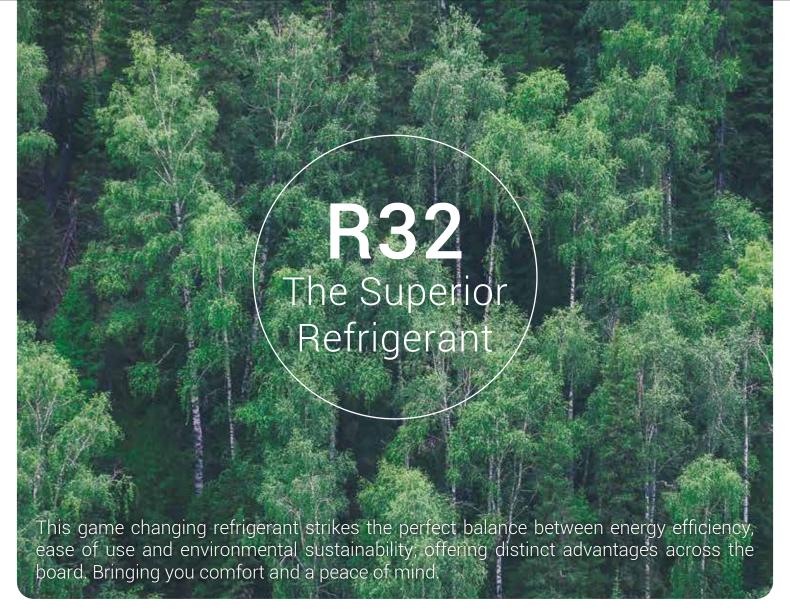












Less Impact On Global Warming

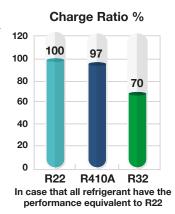
The earth retains solar heat in the daytime for warming and then releases this heat at night, allowing it to maintain an optimal temperature range. However, with greenhouse gases increasing, it is more difficult to discharge heat and the planet is gradually becoming warmer. This is called global warming. R32 has only around 30% of the global warming potential of R410A and R22.

		Ozone Depletion Potential	Global Warming Potential	
	R32	0	675	
7	R410A	0	2,090	
	R22	0.05	1,810	

R32 has zero Ozone Depletion Potential (OPD), and lower Global Warming Potential (GWP) which contributes to the prevention of global warming.

Lesser Refrigerant Charge

Potential refrigerating effect of R32 is 1.5 times that of R22 or R410A. More specifically, pressure losses are lower with R32 than R22 or R410A for the same capacity and the liquid density of R32 is also 10% lower. As a result, the charging volume for R32 is approximately 30% less than that of R410A and R22.

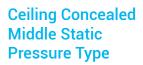


Easy Maintenance and Serviceability

Unlike R410A and R407C, which are mixed refrigerants, R32 is a Single component refrigerant. This means that no composition change occurs, and likewise R22, allows for easy liquid charge and gas charge.

		Composition (Mixture ratio wt%)			
	R32	Single Component			
7	R410A	R32/R125 (50/50 WT%)			
	R22	Single Component			



















 100
 125
 140







Cassette Air Conditioner with 8 Way Airflow Provides Cooling Comfort to Every Corner



DGS01

Compact Wireless Remote Controller

- Supplied togther with panel for user convenience.
- Prominent temperature display.
- Real-time clock display.
- · Easily accessible buttons.



DSLM8

Slim Wired Remote Controller (Optional)

- Dedicated button for Quiet and Turbo functions.
- Key lock function.
- Real-time timer. (7 days option, 2 events daily).
- Comes with 10m wired cable



BRC51D61

SHIRO Wired Remote Controller (Optional)

- Better external outlook with glossy finishing.
- Display with backlight for better viewing.
- Room temperature indication.
- Comes with 10m wired cable

Product Features



High Performance

R32 refrigerant properties boost the capacity and COP of units for selected models to achieve full tonnage.



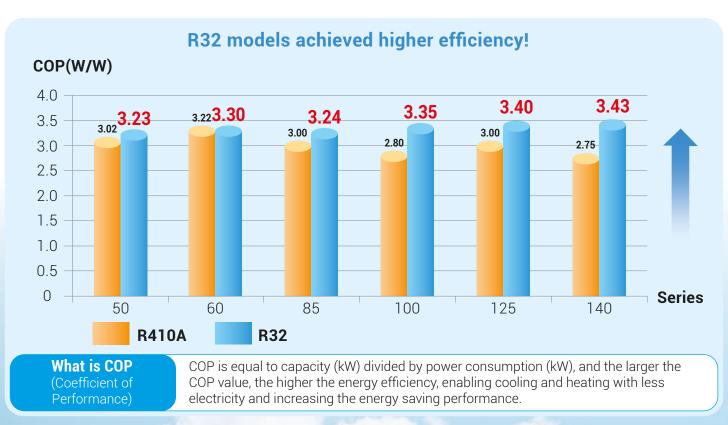
Series	R410A	R32
50	18,500	18,500
60	23,000	24,000 1 (Full 2TR)
85	30,000	30,000
100	36,000	36,000
125	42,000	42,000
140	46,000	48,000 (Full 4TR)



Energy Saving

R32 refrigerant properties provide better heat transfer compared to R410A refrigerant. Therefore, the efficiency of R32 models is tremendously improved. COP for R32 models increases by an average of 12% compared to R410A models.





Better Indoor Air Quality





Advanced i-Plasma Technology

Highly effective in deactivating bacteria by damaging the microbial DNA and their surface structures by this advanced plasma technology.

It emits massive positive and negative ions, and sterilize surrounding air more effectively. FCC-A series emit 100 times more ion than ionizer technology in the current market by using our advance i-plasma technology.



Comfort

Unified Square Panels

- Panel size is the same for all models.
- It is easy to maintain a neat appearance when multiple units are installed in the same room.

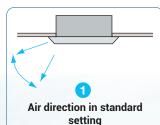


8 - Way Air Flow Discharge

- The unit delivers even and comfortable air-conditioning to all areas, covering to every corner of the room by combining 8-ways air discharge.
- Air flow direction can be fixed at your designated angle by the remote controller with auto swing mode.

3 Different Swing Pattern

To increase the comfort level of the air conditioned area, the system is built-in with 3 different types of air flow pattern to suit different requirements.



For gentle drafts.





The default setting for air swing pattern is 1.

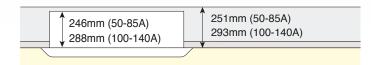
The air swing pattern can be selected through both wireless and wired remote controller by holding down the Swing button for 4 seconds

discomfort.



Easy Installation & Serviceability

Installable In Tight Ceiling Spaces Unit height as low as 246mm.



Easy Height Adjustment

Each corner of the unit has an adjuster pocket that allows you to easily adjust the unit's suspended height.



Easy Accessible To Control Box Location

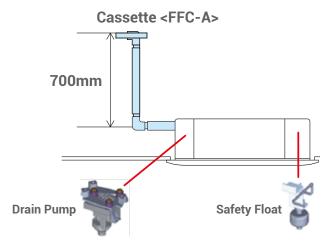
- Instead on conventional hidden control box location, new cassette control box can be easily and safely accessed.
- Without adjusting the panel, control box can be directly accessed from the intake grille.
- · Extra time saving on installation or servicing.



Drain Pump Is Equipped As Standard

- The unit comes with high head drain pump of 700mm.

 * pressure head as standard
- Drainage Protection: Safety Float incorporated in drain pump. It's function is to monitor water level and trigger drain pump to cut in when drainage water reached certain level.
 - \star 700mm calculated from drain pipe outlet to highest elevation point



Cleanliness

Non-Flocking Flaps

- Flaps can be detached without use of tools.
- Dirt does not cling to non-flocking flaps.
- They are easy to clean.



Saranet Filter

- Functions as standard dust filtration with 55% efficiency.
- Supplied as standard with Cassette 3x3 panel.





Low Height and New Design for Flexible Application



DSLM8

Slim Wired Remote Controller

- Dedicated button for Quiet and Turbo functions.
- Key lock function.
- Real-time timer. (7 days option, 2 events daily).
- Comes with 10m wired cable.



BRC51D62

SHIRO Wired Remote Controller (Optional)

- Better External Outlook with Glossy Finishing.
- Display with Backlight for better viewing.
- Room temperature indication.
- Comes with 10m wired cable.

Product Features



High Performance

R32 refrigerant properties boost the capacity and COP of units for selected models to achieve full tonnage.



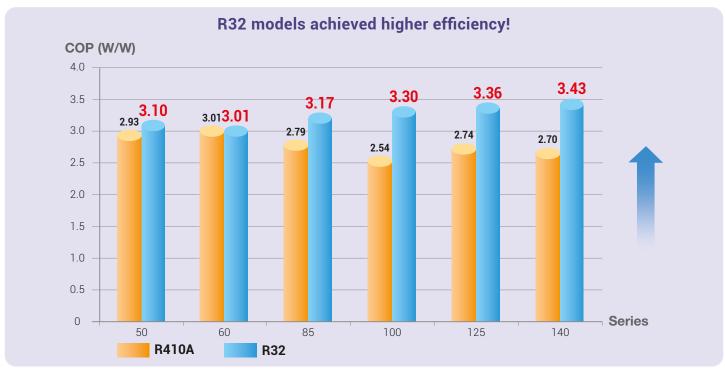
Series	R410A	R32
50	18,000	18,500 👚
60	21,000	23,500 👚
85	30,000	30,000
100	36,000	36,000
125	42,000	42,000
140	47,000	48,000 1 (Full 4TR)



Energy Saving

R32 refrigerant properties provide better heat transfer compared to R410A refrigerant. Therefore, the efficiency of R32 models is tremendously improved. Average COP for R32 models increases by an average of 15% compared to R410A models.



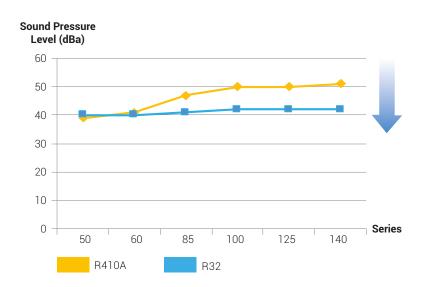


New Design

New Outlook and Operation

New Blow Through System results in low noise operation of unit.





Design And Installation Flexibility

Extreme Low Height Of Units

Installation is possible even in buildings with narrow ceiling spaces.

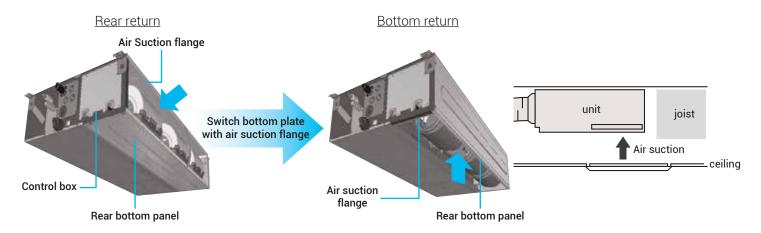
Series	50/60	85	100/125/140
Height (mm)	250	250	250
Width (mm)	700	1,000	1,400
Depth (mm)	700	700	700



One of the industry's most compact bodies in the mid-static pressure range.

Convertible Return Air Configuration

Easy conversion from rear return to bottom return is possible to be done on new ceiling concealed to fit in according to building structures.



Comfort

Switchable Fan Speed: 3 Steps And Auto

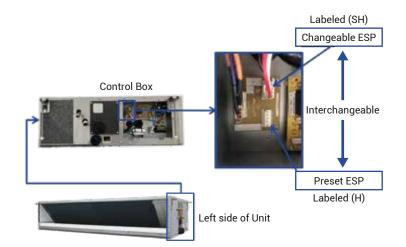
- Control of fan speed up to 3-step.
- The unit has up to 3 different fan speed available for comfort selection.

HIGH MEDIUM LOW

Easy Selectable External Static Pressure (ESP)

- 2-different ESP can be easily selected by switching the connector inside the control box as shown below.
- According to duct design required for comfort, the adjustment can be done easily during installation at the control box.

Series	50	60	85	100	120	140
Preset ESP (Pa)	30	30	30	50	50	50
Changeable ESP (Pa)	50	50	50	80	80	80



What is ESP (External Static Pressure) External Static Pressure is the measurement of the total resistance in a duct system that the fan has to work against.

Easy Service Maintenance

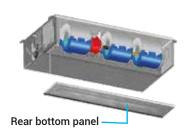
Drain Pan Maintenance Check Window

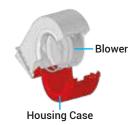
Allow the checking of drainage or dirt in the drain pan without requiring any tools. Check window is located below the drain pump slot (for installation of



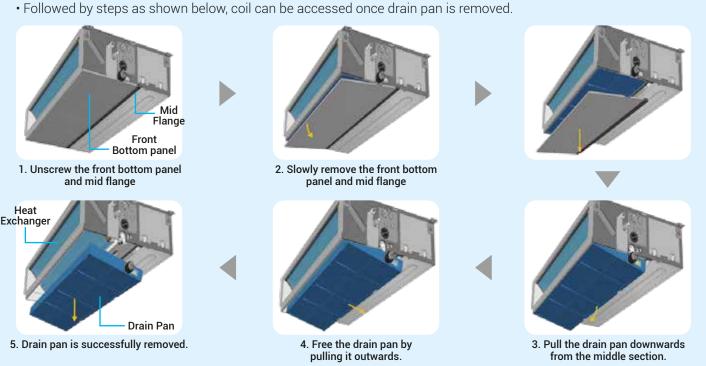
Easy Accessible To Blowers And Motors

- Blowers and Motors can be easily accessible by just removing rear bottom panel and mid flange as shown.
- Blowers can be removed from the housing easily as well by opening the housing case.





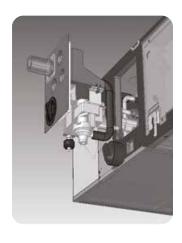
- Easy Accessible to Drain Pan and Heat Exchanger
 Drain Pan and Coil can be easily accessible by removing front bottom panel and mid flange.



Option

Drain Pump Is Ready For Installation

- Drain pump is optional accessory for new ceiling concealed.
- · If Drain Pump is required, it could be purchased as accessories and installed at the designated location of the unit.



Saranet Filter

• Functions as dust filtration to trap dust in the air.



New OUTDOOR Features



RC50/60A



RC85A



RC100/125/140A

1. High Performance R32 Compressor

R32 Non Inverter SkyAir is utilizing high performance compressors to achieve high COP.



3. Quiet Operation

Series	50	60	85	100	125	140	
Sound Pressure	R32 model	52	52	54	56	58	60
Level (dBA)	R410A model	52	52	56	58	60	63

2. V-Cut Propeller Fan

Through the use of a V-cut propeller fan that imitates the efficiency of the swan, a migratory bird, airflow becomes smooth as friction loss is reduced. Therefore, performance increases tremendously. Furthermore, it reduces the sound pressure level as show below.





4. High Durability

Outdoor Casing: Adopted zinc coated heavy gauge galvanized steel, with exterior surfaces finished with a weather resistant polyester powder casing, painted with ivory white colour to increase durability.

5. Longer Piping Length

Series	Max Piping Length	Max Piping Elevation
50	35	20
60	35	20
85	50	30
100	50	30
125	50	30
140	50	30

^{*} Improved piping length to provide installation flexibility



Comfort Airflow

8 Way Airflow

Discharge of air in 8 directions provides an even air distribution and fast cooling

Auto Fan Speed

Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.

Auto Swing

Delivers comfortable air-conditioning to all areas, near to and far from the air conditioner. Airflow direction can be fixed at user's desired angle by remote controller.

Indoor Quiet Operation

Reduce background noise with Quiet Mode, which decreases the sound pressure level by setting fan speed to lowest.

Powerful Mode

Once activated, this feature will engage the indoor fan motor to run at maximum speed for 20 minutes. The turbo airflow enables the desired temperature to be achieved faster, especially in larger spaces.

Operation

Program Dry Function

Dehumidification is microprocessor controlled to prevent abrupt and uncomfortable changes in air temperature. Useful for reducing uncomfortable humidity without uncomfortable cooling of the room.

Fan Only

Unit will only operate with fan which provides airflow without supply of cool air.

Lifestyle Convenience

Indoor Unit ON/OFF Button

Unit can be switched on by pressing physical ON/OFF button on unit.

Signal Receiving Sign

Indication can be seen when air conditioner is switched on.

Remote Controller With Back Light

Lit up display for SHIRO wired controller allows user to use in the dark.

Cleanliness

Saranet Filter

Filter functions as standard dust filtration to trap dust in the air.

i-Plasma

Our advanced plasma ion technology purifies and sterilizes the air by effectively removing airborne contaminants, as well as deactivating harmful bacteria by damaging their microbial DNA and surface structures without causing harm to human.

Washable Grille

Ceiling Cassette grille can be detached easily and washed.

Worry Free

Auto-Restart With Surge Protection

If there is a sudden power failure, the unit will automatically restart with 64 different recovery patterns according to its last settings. This also prevents a sudden surge of electricity to your power source.

Self – Diagnosis Function

This intelligent feature helps to detect faults of malfunctioning in the system. Warning can be found through display error code in wired LCD remote controller. This information can be found in Installation Manual.

Wiring Error Check Function

Protection to prevent wrong wiring connection for 3 phase models

Anti-Corrosion Treatment Outdoor (Gold Fin)

Gold fin offers increased corrosion resistance of outdoor fin.

Flexibility

ESP Selection

2-different ESP can be easily selected by switching the connector inside the control box. According to duct design required for comfort, the adjustment can be done easily during installation at control box.

Water Pump

High head drain pump of 700mm that enables higher elevation.

°F/°C Changeover

Set temperature can be set to °F or °C on remote controller.

Control

WEEKLY TIMER (Wired Controller)

Up to five operation ON/OFF settings and temperature settings can be programmed per day and each day of the week.

24-Hour ON/OFF TIMER

Operation starts when the preset time of ON timer elapses and stops when preset time of the OFF timer elapses.

NIM Adaptor

Group control by Network Interface module (NIM) for simultaneous control of up to 16 indoor units.

S-NIM

Sequential control by Sequential Network Interface Module (S-NIM) for sequential control of 2 indoor units at alternate sequence of pre-set hour.





Ceiling Cassette

Ceiling Concealed

		Celling Cassette	Celling Concealed
	1 8-way Airflow operation		_
0	2 Auto fan speed		
Comfort Airflow	3 Indoor unit quiet operation		_
	4 Auto Swing	•	_
	5 Powerful Mode	•	•
Operation	6 Program dry function		
Operation	7 Fan only	•	•
	8 Indoor unit ON/OFF button		_
Lifestyle Convenience	9 Signal receving sign	•	_
Convenience	10 R/C with back light	* 1	*1
	11 Saranet Filter	•	*
Cleanliness	12 i-Plasma	•	-
	13 Washable Grille	•	-
	14 Auto - restart (after power failure)		
Worry Free	15 Self-diagnosis (R/C, LED)		
(Reliability &	16 Wiring error check funtion	•	•
Durability)	17 Anti-corrosion treatment of outdoor heat excharger (Gold Fin Option)	•	•
	18 ESP Selection	-	
Flexibility	19 Water Pump (Water Drainage Pipe Flexibilty)	•	•*
	20 F/'C changeover R/C temperature display (Factory setting: 'C)	•	•
	21 WEEKLY TIMER (Wired Controller)	•	•
	22 24-hour ON/OFF TIMER	•	•
	23 NIM Adaptor		•
Remote Control	24 Sequntial NIM Adaptor	•	•
	25 Wireless	•	*2
	26 Wired	*	

- Not Available
- Standard
- Optional
- Optional and only applicable for SHIRO wired remote controller
 Optional and the use of Wireless Controller requires the connection to Wired Controller to receive the signal

Specifications



FCC-A Series

Ceiling Cassette

Specifications

		Indoor unit		FCC50AV1M	FCC60AV1M	FCC85AV1M	
		Outdoor unit		RC50AV1M	RC60AV1M	RC85AV1M	
Model Deco		Decoration panel	Wireless	BC50FM	BC50FM	BC50FM	
		Decoration panel	Wired	BC50FMW	BC50FMW	BC50FMW	
Datad O	ooling Capacity	·	Btu/h	18,500	24,000	30,000	
Haled C	Dolling Capacity		kW	5.42	7.03	8.79	
Total Po	wer		W	1,680	2,130	2,710	
Total Cu	rrent		А	7.46	9.45	12.10	
COP			W/W	3.23	3.30	3.24	
CSPF			Wh/Wh	3.43	3.50	3.44	
Power s	upply		V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	
	Airflow (H/M/L/Q)		cfm	840/700/560/440	890/760/620/490	890/760/620/490	
	Sound Pressure Level (H/M/L/Q)		dBA	42/39/37/35	44/40/37/35	44/40/37/35	
Indoor	Dimension (H x W	Unit	mm	246 X 840 X 840	246 X 840 X 840	246 X 840 X 840	
<u>p</u>	Dimension (n x vv	With decortion panel	mm	305 X 950 X 950	305 X 950 X 950	305 X 950 X 950	
	Unit Weight	Unit	kg	22	22	22	
	Onit Weight	With decortion panel	kg	5	5	5	
ò	Sound Pressure L	evel	dBA	52	52	54	
Outdoor	Dimension (H x W	' x D)	mm	615 X 845 X 300	615 X 845 X 300	695 X 930 X 350	
0	Unit Weight		kg	40	46	53	
Pipe Connection Size Liquid		mm	6.35	6.35	9.53		
Pipe Co	nnection Size	Gas	mm	12.70	12.70	15.88	
Maximum Piping Length m		m	35	35	50		
Maximur	n Piping Elevation		m	20	20	30	
Heat Ins	ulation				Both Liquid and Gas Piping		

		Indoor unit		FCC100AV1M	FCC125AV1M	FCC140AV1M
		Outdoor unit		RC100AV1M	RC125AY1M	RC140AY1M
Model		Decoration panel	Wireless	BC50FM	BC50FM	BC50FM
	Decoration panel		Wired	BC50FMW	BC50FMW	BC50FMW
Datad C	poling Capacity	'	Btu/h	36,000	42,000	48,000
Haled Co	Dolling Capacity		kW	10.55	12.31	14.07
Total Pov	wer		W	3,150	3,620	4,100
Total Cur	rent		А	14.30	6.78	7.59
COP			W/W	3.35	3.40	3.43
CSPF			Wh/Wh	3.56	3.61	3.64
Power su	apply		V/Ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50
	Airflow (H/M/L/Q)		cfm	1,120/1,030/890/760	1,120/1,030/890/760	1,120/1,030/890/760
	Sound Pressure L	evel (H/M/L/Q)	dBA	48/46/43/40	48/46/43/40	48/46/43/40
Indoor	Dimension (H x W	Unit	mm	288 X 840 X 840	288 X 840 X 840	288 X 840 X 840
pu	Dimension (H x vv	With decortion panel	mm	347 X 950 X 950	347 X 950 X 950	347 X 950 X 950
	Unit Weight	Unit	kg	25	25	25
	Oriit vveigrit	With decortion panel	kg	5	5	5
70°C	Sound Pressure L	evel	dBA	56	58	60
Outdoor	Dimension (H x W	×D)	mm	852 X 1,030 X 400	852 X 1,030 X 400	852 X 1,030 X 400
0	Unit Weight		kg	62	79	84
Pipe Cor	Pipe Connection Size Liquid		mm	9.53	9.53	9.53
Pipe Connection Size Gas		mm	15.88	15.88	15.88	
Maximum Piping Length		m	50	50	50	
Maximum Piping Elevation			m	30	30	30
Heat Insu	ulation				Both Liquid and Gas Piping	

- Due to product innovation, all specifications are subjected to change by the manufacturer without prior notice.
 All units are being tested and comply to ISO5151.
 Nominal cooling capacity are based on the conditions: 27°C DB / 19°C WB indoor and 35°C DB outdoor.

- Sound pressure levels are measured in anechoic chamber according to JIS C 9612 standard and JIS B 8616.
 During actual operation, sound pressure level will be higher as a result of room specification condition.
 RC100AV1M and RC125/140AY1M are equipped with contactor for Direct On Line (DOL) field installation.



FDMC-A Series

Ceiling Concealed

Specifications

Model			Indoor unit		FDMC50AV1M	FDMC60AV1M	FDMC85AV1M		
	Model		Outdoor unit		RC50AV1M	RC60AV1M	RC85AV1M		
Rotad Ca	Detail Casling Consoit,		0 "				18,500	23,500	30,000
Rated Cooling Capacity			kW	5.42	6.89	8.79			
Total Pow	ver			W	1,750	2,290	2,770		
Total Curr	rent			A	7.74	10.3	12.4		
COP				VV/VV	3.10	3.01	3.17		
CSPF				Wh/Wh	3.29	3.20	3.37		
Power su	pply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50		
	Airflow (H/M/L)		cfm	590/525/430	590/525/430	950/810/700			
_	External Static Pressure (Std/High)		Pa	30/50	30/50	30/50			
Indoor	Sound Pressure Level (H/M/L)		dBA	40/37/34	40/37/34	41/38/35			
=	Dimension (H x W x	(D)	Unit	mm	250 X 700 X 700	250 X 700 X 700	250 X 1,000 X 700		
	Unit Weight		Unit	kg	24	24	31		
o.	Sound Pressure Le	vel		dBA	52	52	54		
Outdoor	Dimension (H x W x D)		mm	615 X 845 X 300	615 X 845 X 300	695 X 930 X 350			
0	Unit Weight		kg	40	46	53			
Pipe Connection Size		Liquid		mm	6.35	6.35	9.53		
Pipe Connection Size Gas		mm	12.70	12.70	15.88				
Maximum Piping Length m		m	35	35	50				
Maximum Piping Elevation m			m	20	20	30			
Heat Insu	lation				Both Liquid and Gas Piping				

Model			Indoor unit		FDMC100AV1M	FDMC125AV1M	FDMC140AV1M
			Outdoor unit		RC100AV1M	RC125AY1M	RC140AY1M
Rated Cooling Capacity			Btu/h	36,000	42,000	48,000	
			kW	10.55	12.31	14.07	
Total Power				W	3,200	3,660	4,100
Total Current				А	14.80	6.85	7.51
COP				W/W	3.30	3.36	3.43
CSPF				Wh/Wh	3.50	3.57	3.64
Power supply				V/Ph/Hz	220-240/1/50	380-415/3/50	380-415/3/50
Indoor	Airflow (H/M/L)		cfm	1,260/1,095/920	1,260/1,095/920	1,260/1,095/920	
	External Static Pressure (Std/High)		Pa	50/80	50/80	50/80	
	Sound Pressure Level (H/M/L)		dBA	42/39/36	42/39/36	42/39/36	
	Dimension ($H \times W \times D$)		Unit	mm	250 X 1,400 X 700	250 X 1,400 X 700	250 X 1,400 X 700
	Unit Weight		Unit	kg	40	40	42
Outdoor	Sound Pressure Level		dBA	56	58	60	
	Dimension (H x W x D)		mm	852 X 1,030 X 400	852 X 1,030 X 400	852 X 1,030 X 400	
	Unit Weight		kg	62	79	84	
Pipe Connection Size Liqu		Liquid		mm	9.53	9.53	9.53
Pipe Connection Size		Gas		mm	15.88	15.88	15.88
Maximum Piping Length			m	50	50	50	
Maximum Piping Elevation				m	30	30	30
Heat Insul	ation				Both Liquid and Gas Piping		

- Due to product innovation, all specifications are subjected to change by the manufacturer without prior notice.
 All units are being tested and comply to ISO13253.
 Nominal cooling capacity are based on the conditions: 27°C DB / 19°C WB indoor and 35°C DB outdoor.

- Sound pressure levels are measured in anechoic chamber according to JIS C 9612 standard and JIS B 8616.
 During actual operation, sound pressure level will be higher as a result of room specification condition.

 RC100AV1M and RC125/140AY1M are equipped with contactor for Direct On Line (DOL) field installation.

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