



**MITSUBISHI
HEAVY INDUSTRIES**
AIR CONDITIONERS

HEAVY DUTY

FD series

High Performance Packaged Air-Conditioners

2026



New RC-ES1
Stylish Remote Control



New M-Air Pro
Mobile App



MOVE THE WORLD FORWARD **MITSUBISHI
HEAVY
INDUSTRIES
GROUP**

High Performance Air-Conditioning FD series

The PAC range from Mitsubishi Heavy Industries Thermal system is ideal for air conditioning offices, shops, restaurants, and bar as well as other commercial environments. The versatility of the PAC range offers you a wide selection of models in function of your installation needs. The modern and attractive design of our indoor units is harmoniously integrated in the any atmosphere creating a pleasant and relaxing environment.



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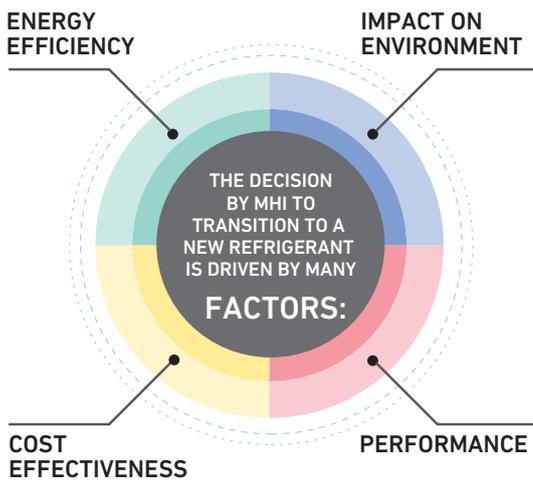


Next Generation Refrigerant R32

All indoor units and outdoor units line up are available for R32 refrigerant

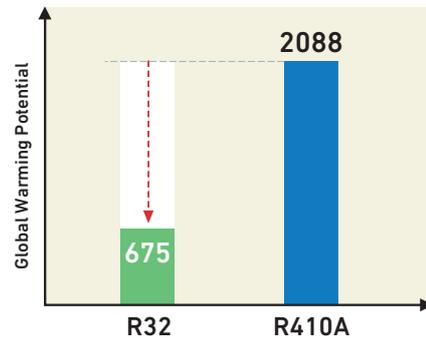


- A Low GWP Refrigerant
- A single component, easy to handle refrigerant
- Known as a component of the blend R410A(50% R32, 50% R125)
- Already used in Air Conditioning systems worldwide
- Zero Ozone Depletion
- Superior Energy Efficiency vs. R410A
- Reduced refrigerant charge vs. R410A
- Easy to recycle



Low Global Warming Potential

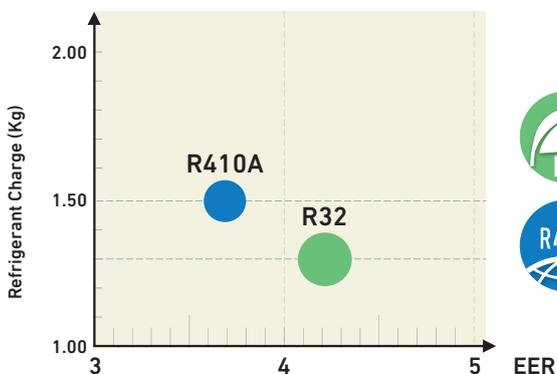
1/3 GWP VS. R410A



GWP Values based on IPCC 4th Assessment Report

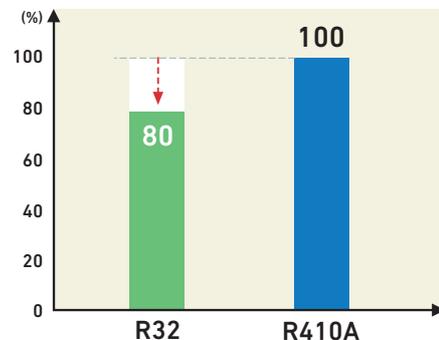


Superior Energy Efficiency



Reduced Refrigerant Charge

Saving up to 20%



Energy Efficiency Ratio Based on 6.0 kW Ceiling cassette 4way unit

New Generation FDT



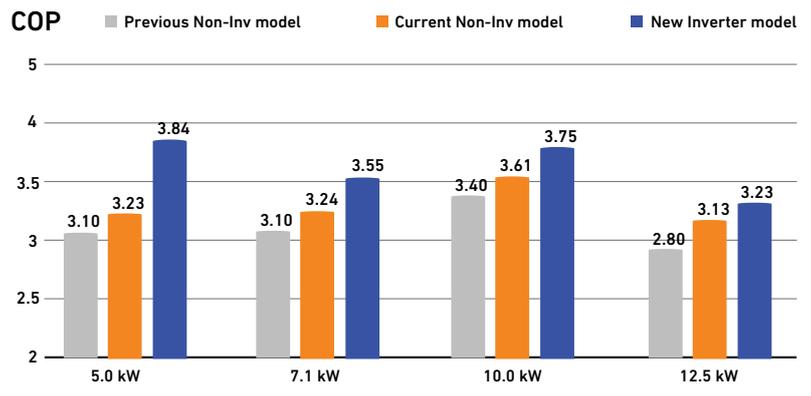
Automatic energy saving control

Keep maximum comfort with minimal draft

Quiet operation

High energy efficiency with new technology

FDT can achieve higher seasonal efficiency by utilising Mitsubishi Heavy Industries latest technology.



Quieter noise & Improved aerodynamic performance of the unit

New technology achieved low noise while keeping capacity and comfort by reducing the pressure fluctuation in an indoor unit. A fan guard ensures both safety and quietness.



Turbo fan



Fan guard (standard equipment)

New Various panels available

You can choose white and black panel according to the atmosphere and purpose of the room.



White panel (Fine snow)



Black panel (Shadow black)

New flexible flap control for draft prevention.



Draft Prevention Panel (Option)

Each of the 4 flaps can be controlled individually at each operation mode. They change air flow direction and prevent draft occurring. This function also provides flexible control of air flow direction.

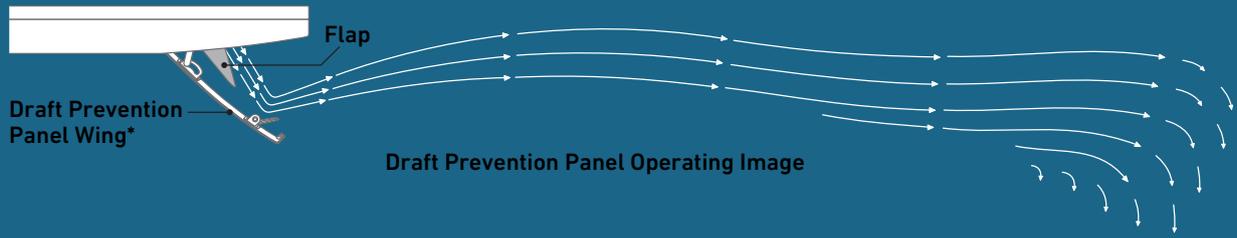


Motion Sensor (Option)

New motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.

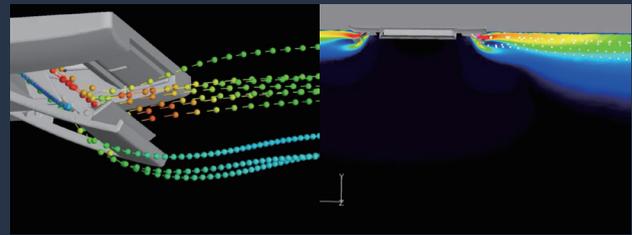
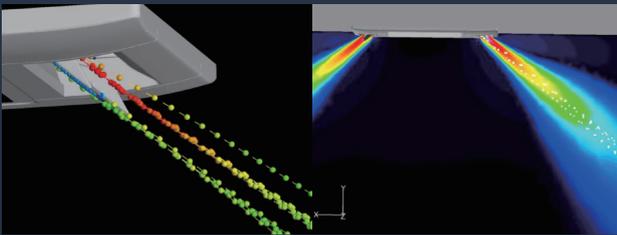
Draft Prevention

Keep maximum comfort with minimal draft:
New FDT & FDTC control flaps with more flexibility.



Draft Prevention Panel off

Draft Prevention Panel working *



Draft Prevention Panel provides a comfortable airflow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.

* Images is for illustration purposes.



Ceiling cassette
FDT series

Keep maximum comfort
with minimal draft :
New FDT control
flaps with more flexibility

Motion sensor

Energy saving operation
by detecting human movement



3 Step Control

- 1 Power Control** New motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.
- 2 Stand by** Unit will go on stand-by mode when no activity is detected. When the motion sensor detects activity again, the unit will automatically re-start operation.
- 3 Auto Off** Unit will go off automatically when no activity is detected for 12 hours.

Optional for models



FDT



FDU



FDUM



FDE

Low human activity (in cooling)



High human activity (in cooling)



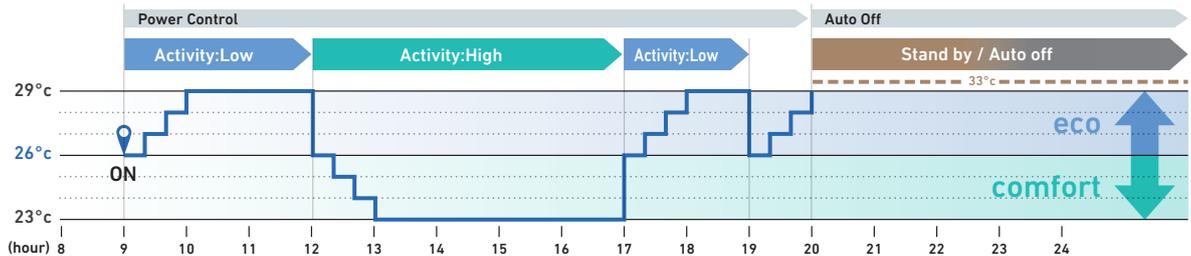
Absence for 1 hour



12 hours absence



in cooling
Set temperature
26°C



Operation mode and
Control of Motion sensor

eco operation
comfort operation

Operation mode

		Operation mode			
		Auto	Cool	Dry	Fan
Power Control *1	Human activity				
	Low	Cooling +3°C	+3°C	—	—
	High	Cooling -3°C	-3°C	—	—
	None	Cooling +3°C	+3°C	—	—
Auto Off *2		●	●	●	●

*1 Set temperature is revised maximum $\pm 3^\circ\text{C}$ at Cooling

*2 Absence for 1 hour \Rightarrow Operation stops ("Stand-by") 12 hours absence \Rightarrow Operation stops completely

New! Stylish Remote Control

2025 Design Award



reddot winner 2025

The RC-ES1 Series has been honored with the prestigious Red Dot Design Award 2025 in the Product Design Category.



The RC-ES1 Series has been honored with the prestigious Gold A' Design Award in the Repair, Restoration, and Maintenance Product Design Category.



RC-ES1

- Stylish and sophisticated design
- Compact size (86x86mm)
- Remote control with Bluetooth® wireless technology



Optimized User Interface



The functions available on the remote have been minimized to focus on users' core needs, simplifying operation and avoiding overly complex settings. A wide range of functions, including service settings, remains accessible through the app.



You can control the air-conditioner by installing App on your smart phone



Search for "M-Air PRO" from the Google Play™ store for Android™ and App Store for iPhone.

Please check the app stores for the latest supported OS version information. App Store and iPhone are registered trademarks of Apple Inc. Google Play and the Google Play logo are trademarks of Google LLC.



Wireless connection

- Remote control with Bluetooth® wireless technology
- Easy set-up of indoor units
- Notifications of abnormal conditions or operational data from the remote control will be sent to your smartphone.



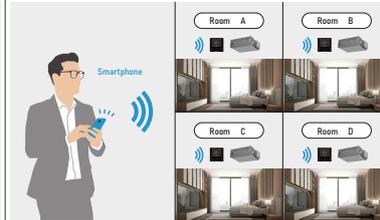
Information screen

By looking at the information screen, you can check the current operating conditions at a glance.



Central management by smart phone

You can select and change the settings of multiple rooms with only one action on your smartphone.*



Easy installation with the new casing structure

The casing is separated into the lower and the upper case. By inserting the upper case into the lower case embedded to the wall, the remote could be easily installed.



*The function would be available when the smartphone is connected to the remote control with Bluetooth® wireless technology.

Easy to instinctively operate with simplified icons

Operation settings

	Operation mode	Heating / Cooling / Fan / Dry / Auto
	High power	ON / OFF
	Ventilation	ON / OFF
	Timer	Set ON / OFF timer by hour Set ON / OFF timer by clock
	Air direction	Upper / lower flap, Flap direction

Common settings

	Bluetooth	ON / OFF
	Pairing mode	Make a new Bluetooth pairing
	App QR code	QR code for the app

Display & sound settings

	Brightness	1-10
	Lighting time	1-10
	Operation sound	Sound On / Sound Off

Information screen

	Temporary stop		High power operation		Motion sensor control		On timer setting
	Thermo-off		Eco operation		Anti draft control		OFF timer setting
	Fan operation		Set temp. shift		Demand control		Weekly timer setting
	Cooling test run		Warm up operation		Filter cleaning time		Sleep timer setting
	Static pressure adjustment		Heating preparation		Back-up control in operation		
	Dew drop prevention control		Defrost operation		Fault back-up control in operation		
	Home leave operation		Outdoor silent operation		Periodical check indication		

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Remote Control

Simple use with advanced settings REMOTE CONTROL

RC-EX3D

Function Switch

The function switch allows the user to select preferred two functions that are desired from the seven available functions shown.

These functions can be used by simply pressing the button after they are set, allowing you to use your preferable functions immediately.



Function switch (F1)

Function switch (F2)

1. Draft prevention ON/OFF



Anti draft can be turned ON/OFF with a single tap of the button.

2. High Power Mode



High Power Mode achieve excessive cooling / heating capacity in 15 minutes to quickly adjust the room temperature to a comfortable level.

3. Energy Saving Mode



Temperature is set to be optimized to save energy without losing comfort.

4. Quiet Mode



Outdoor unit starts to operate quietly by activating this mode. The time of this mode can be set in conjunction with Indoor Silent Timer.

5. Home Leave Mode



Home leave mode maintains the room temperature at a moderate level.

6. Favourite Mode



Operation mode, set temperature, fan speed and air flow direction will automatically be adjusted to the programmed favourite setting.

7. Filter Sign



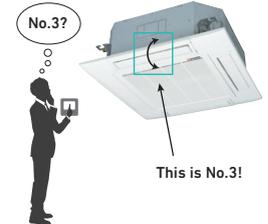
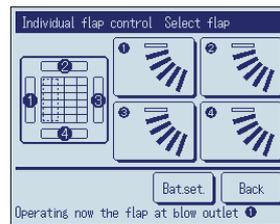
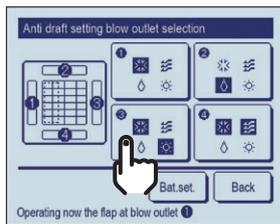
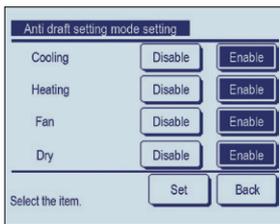
Announces the due time for cleaning the air filter.

Draft Prevention Setting (only FDT•FDTC series)

User can enable/disable the motion of Draft prevention panel for each air outlet for each operation mode. This function can be set while operating.

Easy Adjustment of the Air Flow

User can visually confirm and set the direction of flaps using the visual display on the remote controller.



Motion Sensor Control

Presence of humans and activity are detected by a motion sensor to perform various controls.

1 Select Enable / Disable

Select **Enable / Disable** for the motion sensor of the indoor unit connected to the R/C.

Motion sensor control



Enable/Disable

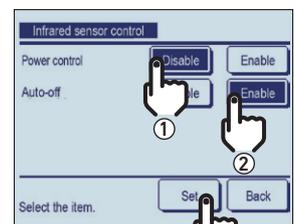


2 Select Enable / Disable per control

- Power control
- Auto-off



Enable/Disable



Additional Functions of External Input / Output

The external input/output of indoor unit by remote controller can set input/output based on user's demand.



External Input

Two of the following could be selected

CNT, CNTA

- Input
- Run / Stop
 - Permission/Prohibition
 - Cooling/Heating
 - Emergency Stop
 - Set temp. shift
 - Forced thermo-off
 - IU operation stop
 - Silent mode

External Output

Four of the following could be selected

CNT

- Output
- Operation
 - Heating
 - Compressor ON (thermo-ON)
 - Inspection
 - Cooling (defrosting)
 - Fan operation
 - Fan operation with Phi or Hi
 - Fan operation with Me or Lo
 - Defrosting (oil return in heating operation)
 - Ventilation
 - Heater ON
 - Free cooling
 - IU overload alarm

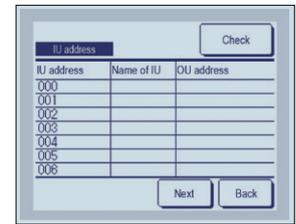
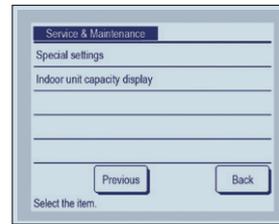
Silent Mode Control

The Outdoor unit is controlled prioritising quiet operation. Silent mode control must be set to the F1 or F2 switch. User can start/stop the silent mode control with a single tap of a button.



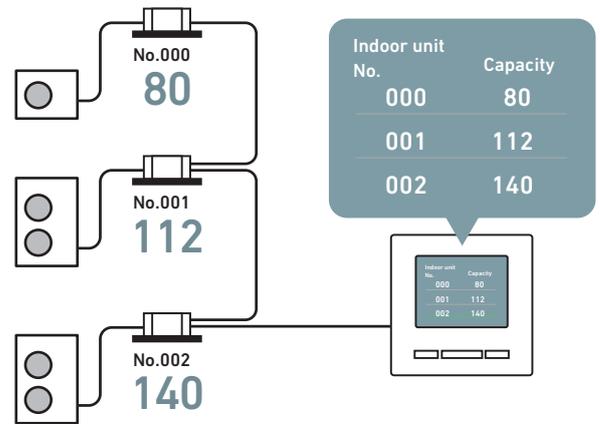
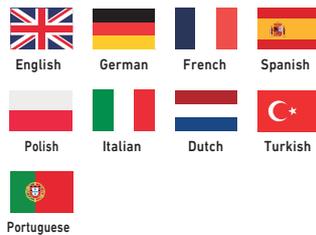
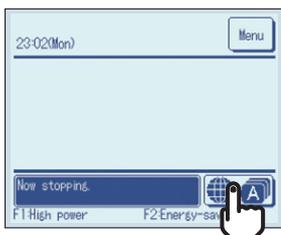
Indoor Unit Capacity Display

Capacities of Indoor units connected to the RC-EX3D are displayed.



Language Switching

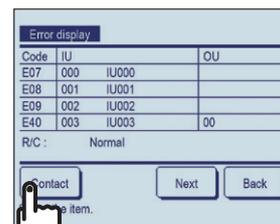
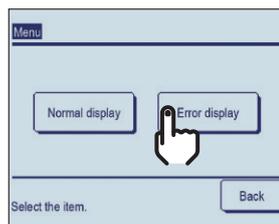
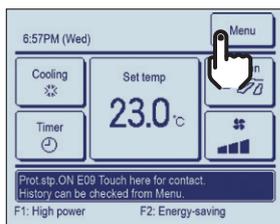
User can select from the following languages and also switch them on the top display.



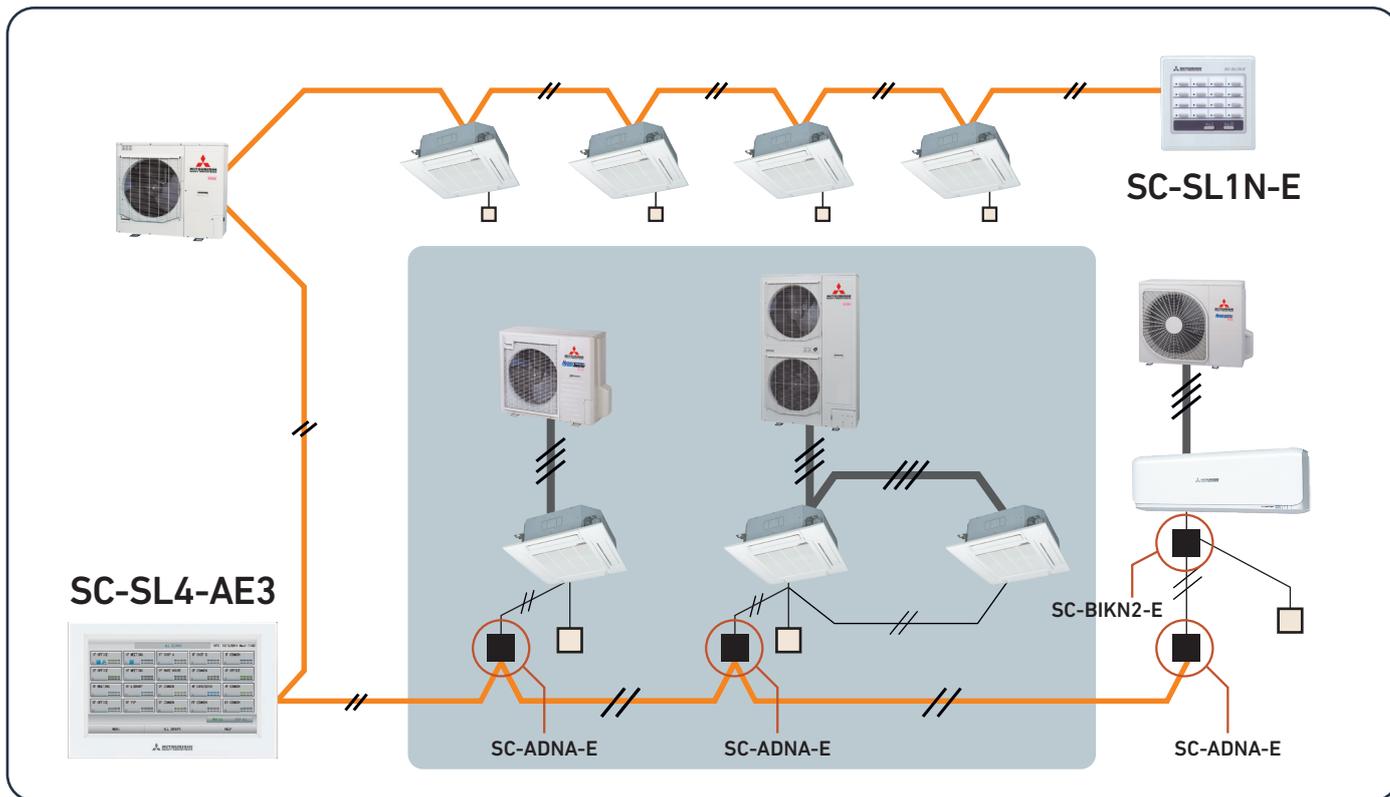
Error display

"Error"

If any error occurs on the air-conditioner, the "Unit protection stop" is indicated on the message display.



SUPERLINK II Control Systems

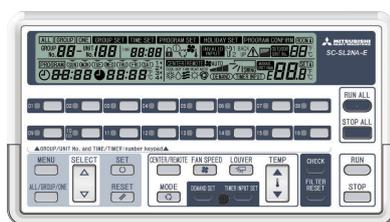


Central Control



SC-SL1N-E

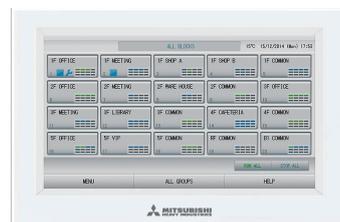
Start/stop control of up to 16 indoor units is possible either individually or collectively. With simple operations, you can achieve centralized control.



SC-SL2NA-E

Centralized control of up to 64 indoor units. Including weekly timer function as standard.

New



SC-SL4-AE3/BE3

Easy operation thanks to with a large colour LCD and touch panel. Up to 128 indoor units can be controlled, when SUPERLINK-II systems are connected.

Building Management Systems

Production by order



SC-WBGW256*

Web gateway
BACnet gateway

SC-WBGW256, up to 256 cells (some cells can have two or more indoor units and total number of indoor units can be up to 256 units) are controlled from the Internet Explorer and centrally from Building Management Systems.

Users can manage up to 1024 units by connecting the four devices !!



SC-LGWNB*

LonWorks gateway

Up to 96 indoor units can be integrated to a central control point via the building management system network.

* Additional engineering service is required. Please consult your dealer when using these system.

Product Line-up

- HI-COP NON-INVERTER R410
- Standard NON-INVERTER R410
- HI-COP NON-INVERTER R32
- Standard NON-INVERTER R32
- INVERTER

Capacity (kW)		4	5	6	7.1	9	10	12.5	14	20	25	40	50	
Ceiling Cassette	 FDT	Inverter	●	●	●	●		●	●	●				
		Non-Inverter		● ●		● ●		● ●	● ●	● ●				
Duct Connected	 FDUM	Inverter	●	●	●	●								
		Non-Inverter		● ●		● ●		● ●	● ●	● ●				
	 FDU	Inverter						●	●	●				
Ceiling Suspended	 FDE	Inverter	●	●	●	●		●	●	●				
		Non-Inverter		● ●		● ●		● ●	● ●	● ●				
Floor Standing	 FDF	Non-Inverter				●		●	●					
Wall Mounted	 SRK	Inverter					●							
Duct Connected (Big Capacity)	 FDU	Non-Inverter								●	●	●	●	
Floor Standing (Big Capacity)	 FDF	Non-Inverter									●		●	
Outdoor Unit		Inverter								← YSA Series →				
		Non-Inverter	← YNA Series →								← Big capacity →			
			← HI-COP →				← Standard →							

Indoor units BENEFITS SUMMARY

FDT	FDU	FDUM	FDE	SRK	FDT	FDUM	FDE	FDI
INVERTER					NON-INVERTER			

Energy-Saving 	Inverter Technology Inverter control technology delivers high efficiency and a smooth operation from high speed to low speed. A smooth sine voltage wave is attained.	●	●	●	●	●				
	Energy-Saving Operation * Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.	●	●	●	●	●				
	Motion Sensor * This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	Option	Option	Option	Option	Option	Option			
	Home Leave Operation This function ensures that when the room is unoccupied for long periods of time, the unit will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures.	●	●	●	●	●				
	Set Temperature Auto Return * This function allows the user to program a preferred set temperature that the unit will return to each time it is operated.	●	●	●	●	●	●	●	●	
Comfort 	Automatic Operation This function automatically selects the required heating or cooling function based on the current room conditions.	●	●	●	●	●	●	●	●	
	Silent Operation This function allows the user to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.	●	●	●	●	●				
	Hi Power Operation Use the high power function to quickly reach your optimum temperature level when you first turn on the unit. This function will operate for a maximum of 15 minutes before returning to normal operation.	●	●	●	●	●				
Air Flow 	Flap Control System This function allows the user to set the upper and lower limit positions of the flap at each air outlet individually, providing you with complete control over interior air flow.	●			●	●	●		●	
	Vertical Auto Swing The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to the preferred operation angle.	●			●	●	●		●	
	Draft Prevention Setting * Draft Prevention setting provides a comfortable air flow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.	Option					Option			
	Automatic Fan Speed The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	●	●	●	●	●	●	●	●	

FDT FDU FDUM FDE SRK FDT FDUM FDE FDF

INVERTER NON-INVERTER



		FDT	FDU	FDUM	FDE	SRK	FDT	FDUM	FDE	FDF
		INVERTER					NON-INVERTER			
Timer 	Sleep Timer This function allows the user to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate for before switching off.	●	●	●	●	●	●	●	●	
	Peak-Cut Timer * This function lets the user to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.	●	●	●	●	●				
	Weekly Timer Set the unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	●	●	●	●	●	●	●	●	
Convenience 	Function Switch * From the seven available functions on the unit, this function allows the user to set two functions to operate automatically.	●	●	●	●	●	●	●	●	
	Favourite Setting * Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.	●	●	●	●	●	●	●	●	
	Select the Language * Set the language to be displayed on the remote control.	●	●	●	●	●	●	●	●	
	Air Filter The air filter in the unit traps and removes airborne dust particles and other allergens to provide you clean air.	●	Procure locally	● Option	●	●	●	●	● Option	●
	Filter Sign This warning alerts when the filter needs to be cleaned.	●	●	●	●	●	●	●	●	●
	Outside Air Intake This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.	●	●	●				●	●	
Others	Self Diagnostics The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables authorised dealers to isolate and repair any issues.	●	●	●	●	●	●	●	●	●
	Built in Drain Pump The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.	●	●	●				●	●	
	Improved Serviceability The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.		●	●					●	

When using RC-EX3D (Remote control), functions with symbol ●●●●● are available.

However, for RC-E5 (Remote control), functions with * are not available.



CEILING CASSETTE FDT

Draft Prevention Panel (Option)

Draft Prevention Panel prevents cold draft blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



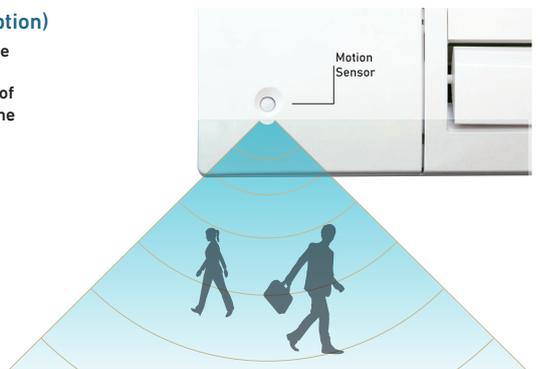
User can position panels by using the remote controller only (RC-EX3A, Wireless kit) when Draft Prevention Panel is available.

Motion Sensor (Option)

Motion sensor is equipped in the panel corner and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.

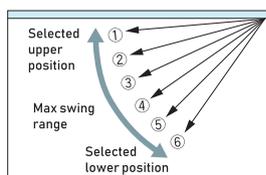


LB-T-5BW-E(White)
LB-T-5BB-E(Black)



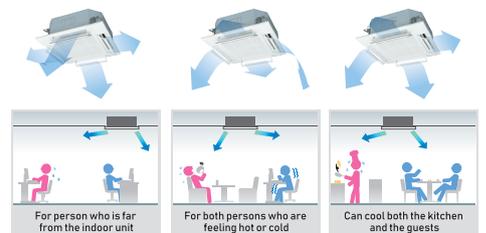
Individual Flap Control System

According to room conditions, four directions of air flow can be controlled individually by utilizing the flap control is available even after installation.

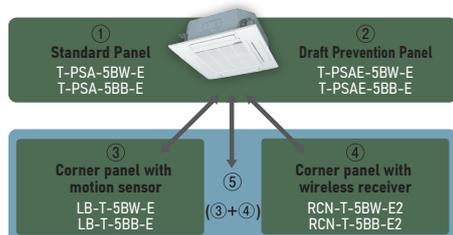


Flap can swing within an upper and lower flap range position within can be selected with a wired remote control.

• The wireless remote control is not applicable to the Individual flap control system.



Panel Select Pattern (Option)



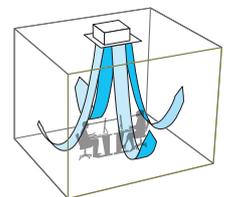
Installation position of Wireless kit and Motion sensor kit

8 patterns of panel are available.

- ① Standard Panel only
- ①+③ Standard Panel with corner panel with motion sensor
- ①+④ Standard Panel with corner panel with wireless receiver
- ①+⑤ Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
- ② Draft Prevention Panel only
- ②+③ Draft Prevention Panel with corner panel with motion sensor
- ②+④ Draft Prevention Panel with corner panel with wireless receiver
- ②+⑤ Draft Prevention Panel with corner panel with motion sensor & corner panel with wireless receiver

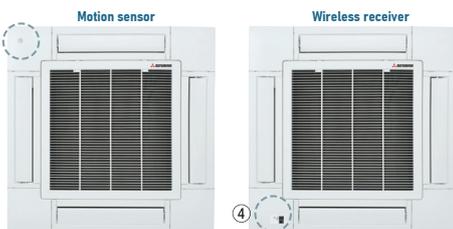
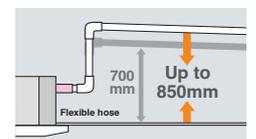
Suitable for High ceilings

The Powerful blowout carries comfortable air flow to the floor even in high ceiling applications. It is ideal for high ceiling offices, stores, etc., with a wide, uniform air flow throughout the room.



850mm Drain Pump

Drain can be discharged upwards up to 850mm from the ceiling surface, allowing a piping layout with a high degree of freedom. Thanks to the 185mm flexible hose, equipment supports easy workability.



*Wireless receiver and Motion sensor can be installed to the position as shown

*Wireless receiver and Motion sensor can be installed to the position as shown

FDT INVERTER CEILING CASSETTE

FDT40/50/60/71/100/125/140YA-W
FDT100/125/140YSA-W



Draft Prevention Panel (Option)



FDC40YNA-W
FDC50YNA-W
FDC60YNA-W



FDC100YNA-W



FDC71YNA-W



FDC125YNA-W
FDC140YNA-W
FDC100YSA-W
FDC125YSA-W
FDC140YSA-W

Remote control (option)

Wired



RC-EX3A
RC-EX3D



RC-E5



RC-ES1

Wireless



RCN-T-5BW-E2(White)
RCN-T-5BB-E2(Black)

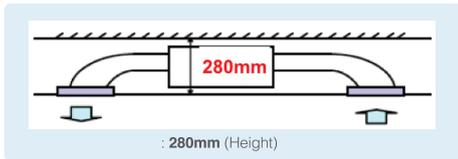
SPECIFICATIONS

Indoor unit		FDT40YA-W	FDT50YA-W	FDT60YA-W	FDT71YA-W	FDT100YA-W	FDT125YA-W	FDT140YA-W	FDT100YSA-W	FDT125YSA-W	FDT140YSA-W			
Outdoor Unit		FDC40YNA-W	FDC50YNA-W	FDC60YNA-W	FDC71YNA-W	FDC100YNA-W	FDC125YNA-W	FDC140YNA-W	FDC100YSA-W	FDC125YSA-W	FDC140YSA-W			
Power source		1Phase 220-240V, 50Hz/ 230V, 60Hz						3Phase 380-415V, 50Hz/ 400V, 60Hz						
Normal cooling capacity (Min-Max)		kW		4.30 (1.6~4.8)	5.30 (1.6~5.7)	6.10 (1.6~6.5)	7.10 (1.3~7.7)	10.5 (2.0~11.5)	12.5 (3.1~12.8)	14.0 (3.2~14.5)	10.7 (3.2~11.5)	12.5 (3.3~13.6)	14.1 (3.0~14.5)	
Power consumption		kW		0.99	1.38	1.72	2.00	2.80	3.87	4.40	2.98	3.87	4.20	
COP		W/W		4.34	3.84	3.55	3.55	3.75	3.23	3.18	3.59	3.23	3.36	
Max.current		A		13	13	13	13.8	17	18.0	24	15	15	15	
Sound pressure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A)		37/33/30/26	41/33/30/26	45/34/30/27	46/34/32/27	47/39/36/30	48/39/37/30	49/42/39/32	47/39/36/30	48/41/39/31	49/42/39/32	
	Outdoor	dB(A)		49	50	52	54	57	58	59	56	59	59	
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m ³ /min		19/16/13/10	22/16/13/10	28.5/17.5/14.5/11.5	28/18/15/12	37/26/23/17	38/28/25/18	38/29/26/19	37/26/23/17	38/28/25/18	38/29/26/19	
	Outdoor	m ³ /min		30	32.5	34.5	30	58.4	79	75	75	75	75	
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm						236 x 840 x 840			298 x 840 x 840			
	Outdoor (HeightxWidthxDepth)	mm			595 x 780(+62) x 290			640 x 800(+71) x 290		750 x 880(+88) x 340		845 x 970 x 370		845 x 970 x 370
Net weight	Indoor	kg		24	24	24	26	30	30	30	30	30	30	
	Outdoor	kg		32			37	51	67.5	68	68	68	68	
Refrigerant	Type	R32												
	Charge amount (Pre-charge pipe length)	kg(m)		0.83(15m)			1.05(10m)	1.55(15m)	1.70(30m)		1.9(30m)			
Piping size (Liquid/Gas)		Ømm		Ø6.35/Ø12.7			Ø6.35/Ø15.88		Ø9.52/Ø15.88		Ø9.52/Ø15.88			
Refrigerant line (one way) length		m		25			30	50	50	50	50			
Vertical height differences (Outdoor is higher/lower)		m		MAX.15/MAX.15			MAX.20/MAX.20		MAX.20/MAX.20	MAX.50/MAX.15	MAX.50/MAX.15			
Outdoor operation temperature range		°C		21-46										



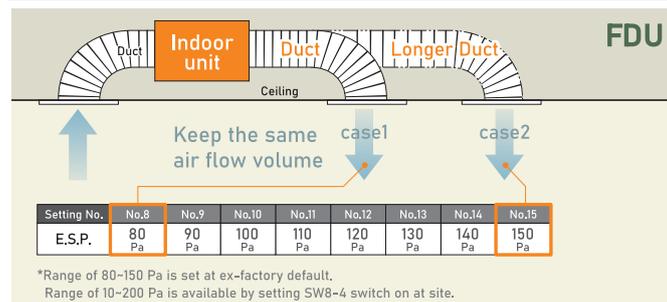
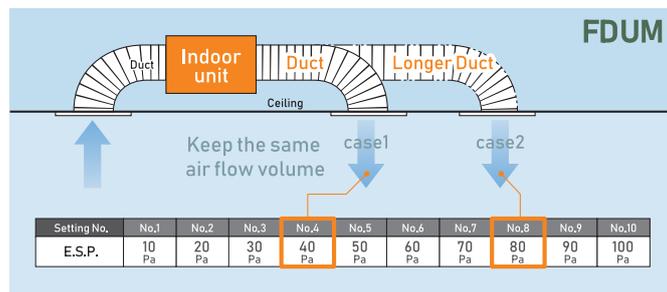
DUCT CONNECTED FDU HIGH STATIC PRESSURE FDUM MIDDLE STATIC PRESSURE

•Indoor height is thin easy to install at narrow ceiling



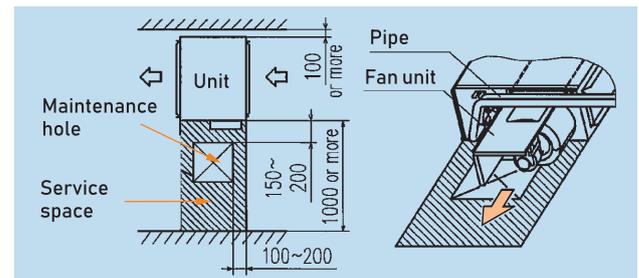
Automatic External Static Pressure (E.S.P.) Control

Duct design was simplified. Using DC motor, the most optimum air flow volume can be achieved by this automatic control. Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.



Improvement of the Serviceability

Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be available from the right side or the bottom side.



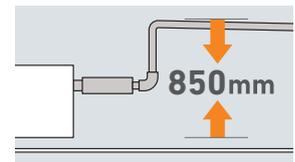
Transparent Inspection Window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.



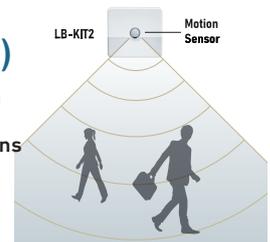
Enhanced Installation Workability

850mm Drain Pump is mounted in all models. the indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



Motion Sensor (Option)

Motion sensor is equipped in the ceiling plane or wall plane and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



FDUM & FDU

INVERTER DUCT CONNECTED



FDUM40/50/60/71YA-W



FDU100/125/140YA-W
FDU100/125/140YSA-W

Remote control (option)



SPECIFICATIONS

FDUM SERIES

FDU SERIES

Indoor unit		FDUM40YA-W	FDUM50YA-W	FDUM60YA-W	FDUM71YA-W	FDU100YA-W	FDU125YA-W	FDU140YA-W	FDU100YSA-W	FDU125YSA-W	FDU140YSA-W								
Outdoor Unit		FDC40YNA-W	FDC50YNA-W	FDC60YNA-W	FDC71YNA-W	FDC100YNA-W	FDC125YNA-W	FDC140YNA-W	FDC100YSA-W	FDC125YSA-W	FDC140YSA-W								
Power source		1Phase 220-240V, 50Hz/ 230V, 60Hz					3Phase 380-415V, 50Hz/ 400V, 60Hz												
Normal cooling capacity (Min-Max)	kW	4.30 (1.6-4.8)	5.30 (1.6-5.7)	6.10 (1.6-6.5)	7.10 (1.3-7.7)	10.5 (2.0-11.5)	12.0 (3.0-12.0)	14.0 (3.2-14.5)	10.7 (3.3-12.0)	12.5 (3.3-13.6)	14.1 (3.0-14.5)								
Power consumption	kW	1.13	1.59	1.77	2.20	3.10	3.82	4.50	3.05	4.05	4.50								
CDP	W/W	3.81	3.33	3.45	3.23	3.39	3.14	3.11	3.51	3.09	3.13								
Max.current	A	13	13	13	13.8	17	20	27	17	17	18								
Sound pressure level	Indoor (P-Hi/Hi/Me/La)	dB(A) 32/26/25/23		dB(A) 33/27/26/23		dB(A) 38/33/29/25		dB(A) 39/35/33/30		dB(A) 39/34/30/28		dB(A) 42/35/31/28		dB(A) 40/35/33/30		dB(A) 41/36/32/29		dB(A) 43/35/31/28	
	Outdoor	dB(A) 50		dB(A) 52		dB(A) 54		dB(A) 57		dB(A) 61		dB(A) 59		dB(A) 56		dB(A) 58		dB(A) 59	
Airflow	Indoor (P-Hi/Hi/Me/La)	m ³ /min 13/10/9/8		m ³ /min 20/15/13/10		m ³ /min 24/19/15/10		m ³ /min 36/28/25/19		m ³ /min 39/32/26/20		m ³ /min 48/35/28/22		m ³ /min 36/28/25/19		m ³ /min 39/32/26/20		m ³ /min 48/35/28/22	
	Outdoor	m ³ /min 32.50		m ³ /min 34.5		m ³ /min 30		m ³ /min 58.4		m ³ /min 79		m ³ /min 75		m ³ /min 75		m ³ /min 75		m ³ /min 75	
Available external static pressure	Pa	STD:35/MAX:100				STD:40/MAX:200				STD:50/MAX:200		STD:60/MAX:200							
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm 280 x 750 x 635			mm 280 x 950 x 635			mm 280 x 1,368 x 738											
	Outdoor (HeightxWidthxDepth)	mm 595 x 780(+62) x 290				mm 640 x 800(+71) x 290		mm 750 x 880(+88) x 340		mm 845 x 970 x 370									
Net weight	Indoor	kg 29	kg 29	kg 34	kg 34	kg 54	kg 67.5		kg 54										
	Outdoor	kg 32			kg 37	kg 51	kg 67.5		kg 68										
Refrigerant	Type	R32																	
	Charge amount (Pre-charge pipe length)	kg(m) 0.83(15m)			kg(m) 1.05(10m)		kg(m) 1.55(15m)		kg(m) 1.70(30m)		kg(m) 1.90(30m)								
Piping size (Liquid/Gas)	Ømm	Ø6.35/Ø12.7				Ø6.35/Ø15.88		Ø9.52/Ø15.88											
Refrigerant line (one way) length	m	25			30		50												
Vertical height differences (Outdoor is higher/lower)	m	MAX.15/MAX.15				MAX.20/MAX.20				MAX.50/MAX.15									
Outdoor operation temperature range	°C	21-46																	



CEILING SUSPENDED FDE

IMPROVED INSTALLTION WORKABILITY

Increased freedom of a piping layout.
The refrigerant pipe from the unit can be arranged in three directions, rear, right and up. The drain pipe can be arranged in two directions, left and right. This will allow a free layout of piping for various installation conditions. The unit can only can only be serviced from the bottom.

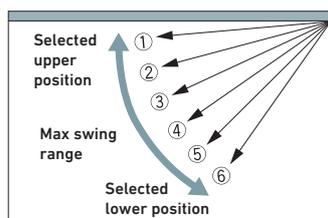


COMPACT AND MODERN DESIGN

All models fit compactly on ceiling. (Height-210mm or 250mm). Plain, modern design featuring rounded edges gives room a comfortable atmosphere. FDE50CNVX-S weights 32kg the lightest level in the industry. Convenient and quick installation.



Flap Control System



The flap can swing within the range of upper and lower flap position selected.

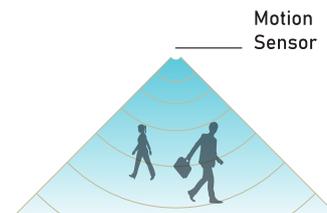
* The wireless remote control is not applicable to the flap control system.

Motion Sensor (Option)

Motion sensor is equipped in the panel and detects the presence /absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-E



Motion Sensor

FDE

INVERTER CEILING SUSPENDED



FDE40/50/60/71/100/125/140YA-W
FDE100/125/140YSA-W



FDC40YNA-W
FDC50YNA-W
FDC60YNA-W



FDC100YNA-W



FDC71YNA-W



FDC125YNA-W
FDC140YNA-W
FDC100YSA-W
FDC125YSA-W
FDC140YSA-W

Remote control (option)



RC-EX3A
RC-EX3D

RC-E5

RC-ES1



RCN-E-E3

SPECIFICATIONS

Indoor unit		FDE40YA-W	FDE50YA-W	FDE60YA-W	FDE71YA-W	FDE100YA-W	FDE125YA-W	FDE140YA-W	FDE100YSA-W	FDE125YSA-W	FDE140YSA-W												
Outdoor Unit		FDC40YNA-W	FDC50YNA-W	FDC60YNA-W	FDC71YNA-W	FDC100YNA-W	FDC125YNA-W	FDC140YNA-W	FDC100YSA-W	FDC125YSA-W	FDC140YSA-W												
Power source		1Phase 220-240V, 50Hz/ 230V, 60Hz						3Phase 380-415V, 50Hz/ 400V, 60Hz															
Nominal cooling capacity (Min-Max)		kW		4.30 (1.6-4.8)		5.30 (1.6-5.7)		6.10 (1.6-6.5)		7.10 (1.3-7.7)		10.5 (2.0-11.5)		12.3 (3.1-12.6)		14.0 (3.2-14.5)		10.7 (3.2-12.0)		12.5 (3.2-13.6)		14.1 (3.0-14.5)	
Power consumption		kW		1.03		1.42		1.82		2.24		2.90		3.88		4.40		2.98		3.87		4.30	
COP		W/W		4.17		3.73		3.35		3.17		3.62		3.17		3.18		3.59		3.23		3.28	
Max.current		A		13		13		13		13.8		17		18.0		24		15		15		15	
Sound pressure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A)		42/34/33/28		43/38/33/28		47/41/37/32		48/43/38/34		48/43/39/34		49/45/40/36		48/43/38/34		48/45/40/35		49/45/40/36			
	Outdoor	dB(A)		49		50		52		54		57		62		59		56		58		59	
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m ³ /min		13/10/9/7		14/11/9/7		20/16/13/10		32/26/21/16.5		32/29/23/17		34/29/23/18		32/26/21/16.5		32/29/23/17		34/29/23/18			
	Outdoor	m ³ /min		30		32.5		34.5		30		58.4		79		75							
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm		210 x 1,070 x 690		210 x 1,320 x 690		250 x 1,620 x 690															
	Outdoor (HeightxWidthxDepth)	mm		595 x 780(+62) x 290		640 x 800(+71) x 290		750 x 880(+88) x 340		845 x 970 x 370													
Net weight	Indoor	kg		28		33		43															
	Outdoor	kg		32		37		51		67.5		68											
Refrigerant	Type	R32																					
	Charge amount (Pre-charge pipe length)	kg(m)		0.83(15m)		1.05(10m)		1.55(15m)		1.70(30m)		1.9(30m)											
Piping size (Liquid/Gas)	Ømm		Ø6.35/Ø12.7		Ø6.35/Ø15.88		Ø9.52/Ø15.88																
Refrigerant line (one way) length	m		25		30		50																
Vertical height differences (Outdoor is higher/lower)	m		MAX.15/MAX.15		MAX.20/MAX.20		MAX.20/MAX.20		MAX.50/MAX.15														
Outdoor operation temperature range	°C		21-46																				

SRK

INVERTER WALL MOUNTED



SRK100YA-W
SRK100YSA-W



FDC100YNA-W



FDC100YSA-W



REMOTE CONTROL

Wireless (Standard)

FUNCTIONS

ENERGY SAVING



AIR FLOW



CLEAN OPERATION & FILTER



COMFORT & CONVENIENCE



OTHERS



SPECIFICATIONS

Indoor unit		SRK100YA-W		SRK100YSA-W	
Outdoor Unit		FDC100YNA-W		FDC100YSA-W	
Power source		1 Phase 220 - 240V, 50Hz / 230V, 60Hz		3 Phase 380 - 415V, 50Hz / 400V, 60Hz	
Nominal cooling capacity (Min-Max)		kW	10.0 (2.0 - 11.0)	10.7 (2.6 - 10.8)	
Power consumption		kW	2.90	3.40	
COP		W/W	3.45	3.15	
Inrush current		A	13.2 / 12.6 / 12.1	5.5/5.3/5.1	
Max.current		A	17	15	
Sound pressure level	Indoor (Hi/Me/Lo/Uto)	dB(A)	47/43/38/27	47/43/39/27	
	Outdoor	dB(A)	57	58	
Airflow	Indoor (Hi/Me/Lo/Uto)	m ³ /min	24.5/21.3/17.6/10.4	24.5/21.3/17.6/10.4	
	Outdoor	m ³ /min	58.4	75	
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	339 x 1197 x 262	339 x 1,197 x 262	
	Outdoor (HeightxWidthxDepth)	mm	750 x 880 (+88) x 340	845 x 970 x 370	
Net weight	Indoor	kg	16.5	16.5	
	Outdoor	kg	51	68	
Refrigerant type	Type		R32	R32	
	Charge amount (Pre-charge pipe length)	kg(m)	1.55(15m)	1.90(30m)	
Piping size (Liquid/Gas)		Ømm	Ø6.35/Ø15.88	Ø9.52/Ø15.88	
Refrigerant line (one way) length		m	50	50	
Vertical height differences (Outdoor is higher/tower)		m	MAX.20/MAX.20	MAX.50/MAX.15	
Outdoor operation temperature range		°C	21-46	21-46	

FDT

NON-INVERTER CEILING CASSETTE



FDT71CNZX-W
FDT50/71/100CNZ-W
FDT100/125/140CSZ-W



Draft Prevention Panel (Option)

REMOTE CONTROL

Wireless (option)

Wired (option)



RCN-T-5AW-E2

RC-EX3A
RC-EX3D

RC-ES

RC-ES1



FDC50/71CNZ-W

FDC71CNZX-W

FDC100CNZ-W

FDC140CSZ-W

FDT100/125CSZ-W

SPECIFICATIONS

HI-COP

Indoor unit		FDT71CNZX-W	
Outdoor Unit		FDC71CNZX-W	
Power source		1 Phase, 220-240V, 50Hz	
Nominal cooling capacity (Min-Max)		kW	7.4
Power consumption		kW	1.79
EER			4.13
Inrush current		A	39.7
Max.current		A	11.8
Sound pressure level	Indoor (Hi/Me/Lo)	dB(A)	43/38/37/34
	Outdoor	dB(A)	56
Airflow	Indoor (Hi/Me/Lo)	m ³ /min	26/21/17/15
	Outdoor	m ³ /min	60
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	236 x 840 x 840
	Outdoor (HeightxWidthxDepth)	mm	742 x 880(+88) x 340
Net weight	Indoor	kg	22
	Outdoor	kg	56
Refrigerant	Type		R32
	Charge amount (Pre-charge pipe length)	kg(m)	1.4(15)
Piping size (Liquid/Gas)		Ømm	Ø6.35/Ø15.88
Refrigerant line (one way) length		m	30
Vertical height differences (Outdoor is higher/lower)		m	Max.10/Max.10
Outdoor operation temperature range		°C	21-46

SPECIFICATIONS

STANDARD

Indoor unit		FDT50CNZ-W	FDT71CNZ-W	FDT100CNZ-W	FDT100CSZ-W	FDT125CSZ-W	FDT140CSZ-W	
Outdoor Unit		FDC50CNZ-W	FDC71CNZ-W	FDC100CNZ-W	FDC100CSZ-W	FDC125CSZ-W	FDC140CSZ-W	
Power source		1 Phase, 220-240V, 50Hz				3 Phase, 380-415V, 50Hz		
Nominal cooling capacity (Min-Max)		kW	5.3	7.2	10.6	10.6	12.9	14.4
Power consumption		kW	1.41	1.98	2.98	3.09	4.22	4.70
EER			3.76	3.64	3.56	3.43	3.06	3.06
Inrush current		A	19.8	42.5	67.4	25.9	29.9	37
Max.current		A	9.7	14.5	18.9	7.9	9.8	14.1
Sound pressure level	Indoor (Hi/Me/Lo)	dB(A)	38/36/35/32	43/38/37/34	44/40/38/34	44/40/38/34	44/41/39/36	44/41/39/36
	Outdoor	dB(A)	51	55	57	56	57	58
Airflow	Indoor (Hi/Me/Lo)	m ³ /min	18/17/15.5/15	26/21/17/15	31/26/23/17	31/26/23/17	31/28/25/18	31/28/26/20
	Outdoor	m ³ /min	26.5	37	75	75	75	132
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	236 x 840 x 840	236 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290	640 x 800(+71) x 290	845 x 970 x 370	845 x 970 x 370	845 x 970 x 370	1300 x 970 x 370
Net weight	Indoor	kg	20	22	30	30	30	30
	Outdoor	kg	40.5	44	73.5	75	74	96
Refrigerant	Type		R32	R32	R32	R32	R32	R32
	Charge amount (Pre-charge pipe length)	kg(m)	0.91(15)	1.1(7.5)	1.7(25)	2.0(30)	1.9(25)	2.1(25)
Piping size (Liquid/Gas)		Ømm	Ø6.35/Ø15.88	Ø6.35/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88
Refrigerant line (one way) length		m	30	25	50	50	50	50
Vertical height differences (Outdoor is higher/lower)		m	Max.10/Max.10	Max.10/Max.10	Max.30/Max.15	Max.30/Max.15	Max.30/Max.15	Max.30/Max.15
Outdoor operation temperature range		°C	21-46	21-46	21-46	21-46	21-46	21-46

FDT

NON-INVERTER CEILING CASSETTE



FDT50/71CNVX-S
FDT50/71/100CNV-S
FDT100/125/140CSV-S



Draft Prevention Panel (Option)



SPECIFICATIONS

HI-COP

Indoor unit			FDT50CNVX-S	FDT71CNVX-S
Outdoor Unit			FDC50CNVX-S	FDC71CNVX-S
Power source			1 Phase, 220-240V, 50Hz	
Nominal cooling capacity (Min-Max)		kW	5.4	7.1
Power consumption		kW	1.43	1.91
COP		W/W	3.78	3.72
Max.current		A	8.2	10.7
Sound pressure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A)	37/35/34/32	46/43/39/37
	Outdoor	dB(A)	51	55
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m ³ /min	21/19/16/14	32/26/21/17
	Outdoor	m ³ /min	38	60
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	236 x 840 x 840	
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor	kg	27	
	Outdoor	kg	45	58
Refrigerant	Type		R410A	
	Charge amount (Pre-charge pipe length)	kg(m)	1.40(15m)	1.50(15m)
Piping size (Liquid/Gas)		Ømm	Ø6.35/Ø15.88	
Refrigerant line (one way) length		m	30	
Vertical height differences (Outdoor is higher/lower)		m	Max.10/Max.10	
Outdoor operation temperature range		°C	21-43	

SPECIFICATIONS

STANDARD

Indoor unit			FDT50CNV-S	FDT71CNV-S	FDT100CNV-S	FDT100CSV-S	FDT125CSV-S	FDT140CSV-S
Outdoor Unit			FDC50CNV-S	FDC71CNV-S	FDC100CNV-S	FDC100CSV-S	FDC125CSV-S	FDC140CSV-S
Power source			1 Phase, 220-240V, 50Hz			3 Phase, 380-415V, 50Hz		
Nominal cooling capacity (Min-Max)		kW	5.0	7.3	10.5	10.4	13.0	14.5
Power consumption		kW	1.55	2.25	2.91	2.88	4.16	4.50
COP		W/W	3.23	3.24	3.61	3.61	3.13	3.22
Max.current		A	8.2	13	17.3	5.8	9.6	11.0
Sound pressure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A)	39/38/37/34	46/43/39/37	43/40/38/34	44/40/38/34	44/41/39/36	44/41/39/36
	Outdoor	dB(A)	51	56	55	57	58	59
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m ³ /min	22/20/17/15	32/26/21/17	31/26/23/17	31/26/23/17	31/28/25/18	31/28/26/20
	Outdoor	m ³ /min	38	37	75	75	75	132
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	236 x 840 x 840			298 x 840 x 840		
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290			845 x 970 x 370		1300x 970 x 370
Net weight	Indoor	kg	25	27	30	30	30	30
	Outdoor	kg	42	46	77.5	79	85	108
Refrigerant	Type		R410A					
	Charge amount (Pre-charge pipe length)	kg(m)	1.00(10m)	1.40(15m)	2.4(30m)	2.65(30m)	2.15(30m)	3.10(30m)
Piping size (Liquid/Gas)		Ømm	Ø6.35/Ø15.88			Ø9.52/Ø15.88		
Refrigerant line (one way) length		m	30	30	50	50	50	50
Vertical height differences (Outdoor is higher/lower)		m	MAX.10/MAX.10			MAX.30/MAX.15		
Outdoor operation temperature range		°C	21-43					

FDUM

NON-INVERTER DUCT CONNECTED



FDC50/71CNZ-W



FDC100CNZ-W
FDC100/125CSZ-W



FDC140CSZ-W



FDUM50/71/100CNZ-W
FDUM100/125/140CSZ-W

FILTERKIT(OPTION)

UM-FL1EF : 50/71CNZ-W
UM-FL2EF : 100CNZ-W, 100/125CSZ-W
UM-FL3EF : 140CSZ-W



External static pressure loss:5Pa

REMOTE CONTROL

Wireless (option)



RCN-KIT4-E2

Wired (option)



RC-EX3A
RC-EX3D

RC-E5

RC-ES1

SPECIFICATIONS

STANDARD

Indoor unit		FDUM50CNZ-W	FDUM71CNZ-W	FDUM100CNZ-W	FDUM100CSZ-W	FDUM125CSZ-W	FDUM140CSZ-W	
Outdoor Unit		FDC50CNZ-W	FDC71CNZ-W	FDC100CNZ-W	FDC100CSZ-W	FDC125CSZ-W	FDC140CSZ-W	
Power source		1 Phase, 220-240V, 50Hz			3 Phase, 380-415V, 50Hz			
Normal cooling capacity (Min-Max)	kW	5.3	7.0	10.6	10.6	13.0	14.9	
Power consumption	kW	1.44	2.05	3.10	3.15	4.44	4.75	
EER		3.68	3.41	3.42	3.37	2.93	3.14	
Inrush current	A	15	42.5	58.0	29.6	20.8	51.2	
Max.current	A	10.4	15.9	19.7	8.1	10.2	14.8	
Sound pressure level	Indoor (Hi/Me/Lo)	dB(A)	34/30/28/26	38/33/31/29	41/36/31/29	40/36/32/29	44/37/33/29	44/37/33/29
	Outdoor	dB(A)	51	55	57	56	57	58
Airflow	Indoor (Hi/Me/Lo)	m ³ /min	14.5/11.5/10.5/9	24/19/15/10	39/32/26/20	39/32/26/20	48/35/28/22	48/35/28/22
	Outdoor	m ³ /min	26.5	37	75	75	75	132
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	280 x 750 x 635	280 x 950 x 635	280 x 1370 x 740	280 x 1370 x 740	280 x 1370 x 740	280 x 1370 x 740
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290	640 x 800(+71) x 290	845 x 970 x 370	845 x 970 x 370	845 x 970 x 370	1300 x 970 x 370
Net weight	Indoor	kg	29	34	53	53	53	53
	Outdoor	kg	40.5	44	73.5	75	74	96
Refrigerant	Type		R32	R32	R32	R32	R32	
	Charge amount (Pre-charge pipe length)	kg(m)	0.91(15)	1.1(7.5)	1.7(25)	2.0(30)	1.9(25)	2.1(15)
Piping size (Liquid/Gas)	Ømm	Ø6.35/Ø15.88	Ø6.35/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88	
Refrigerant line (one way) length	m	30	25	50	50	50	50	
Vertical height differences (Outdoor is higher/lower)	m	Max.10/Max.10	Max.10/Max.10	Max.30/Max.15	Max.30/Max.15	Max.30/Max.15	Max.30/Max.15	
Outdoor operation temperature range	°C	21-46	21-46	21-46	21-46	21-46	21-46	

FDUM

NON-INVERTER DUCT CONNECTED



FDC50/71CNV-S



FDC100CNV-S
FDC100/125CSV-S



FDC140CSV-S



FDUM50/71/100CNV-S
FDUM100/125/140CSV-S

FILTERKIT(OPTION)

UM-FL1EF : 50/71CNV-S
UM-FL2EF : 100CNV-S,100/125CSV-S
UM-FL3EF : 140CSV-S



External static pressure loss:5Pa

REMOTE CONTROL

Wireless (option)

Wired (option)



RCN-KIT4-E2



RC-EX3A
RC-EX3D

RC-E5

RC-ES1

SPECIFICATIONS

STANDARD

Indoor unit		FDUM50CNV-S	FDUM71CNV-S	FDUM100CNV-S	FDUM100CSV-S	FDUM125CSV-S	FDUM140CSV-S
Outdoor Unit		FDC50CNV-S	FDC71CNV-S	FDC100CNV-S	FDC100CSV-S	FDC125CSV-S	FDC140CSV-S
Power source		1 Phase, 220-240V, 50Hz			3 Phase, 380-415V, 50Hz		
Normal cooling capacity (Min-Max)	kW	5.0	7.1	10.5	10.4	13.0	14.5
Power consumption	kW	1.613	2.29	3.03	3.10	4.46	4.70
COP	W/W	3.10	3.10	3.47	3.35	2.91	3.09
Max.current	A	8.2	13	18.3	6.2	10.2	11.4
Sound pressure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A) 35/31/29/27		dB(A) 38/33/31/29		dB(A) 42/36/32/29	
	Outdoor	dB(A) 51		dB(A) 56		dB(A) 57	
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m ³ /min 13/10/9/8		m ³ /min 24/19/15/10		m ³ /min 39/32/26/20	
	Outdoor	m ³ /min 38		m ³ /min 37		m ³ /min 75	
Available external static pressure	Pa	STD:35/MAX:100			STD:60/MAX:100		
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm 280 x 750 x 635		mm 280 x 950 x 635		mm 280 x 1,370 x 740	
	Outdoor (HeightxWidthxDepth)	mm 640 x 800(+71) x 290		mm 845 x 970 x 370			mm 1300 x 970 x 370
Net weight	Indoor	kg 29		kg 34		kg 53	
	Outdoor	kg 42		kg 46		kg 77.5	
Refrigerant	Type	R410A					
	Charge amount (Pre-charge pipe length)	kg(m) 1.00(15m)		kg(m) 1.40(15m)		kg(m) 2.4(30m)	
Piping size (Liquid/Gas)	Ømm	Ø6.35/Ø15.88		Ø6.35/Ø15.88		Ø9.52/Ø15.88	
Refrigerant line (one way) length	m	30		30		50	
Vertical height differences (Outdoor is higher/lower)	m	MAX.10/MAX.10			MAX.30/MAX.15		
Outdoor operation temperature range	°C	21-43					

FDE

NON-INVERTER CEILING SUSPENDED



FDC50CNZX-W



FDC71CNZX-W



FDC100CNZX-W
FDC100/125CSZ-W



FDE50/71CNZX-W
FDE100CNZX-W
FDE100/125/140CSZ-W



FDC140CSZ-W

REMOTE CONTROL

Wireless (Standard)

Wired (option)



RC-EX3A
RC-EX3D



RC-E5



RC-ES1

SPECIFICATIONS

HI COP

STANDARD

Indoor unit		FDE50CNZX-W	FDE71CNZX-W	FDE100CNZX-W	FDE100CSZ-W	FDE125CSZ-W	FDE140CSZ-W	
Outdoor Unit		FDC50CNZX-W	FDC71CNZX-W	FDC100CNZX-W	FDC100CSZ-W	FDC125CSZ-W	FDC140CSZ-W	
Power source		1 Phase, 220-240V, 50Hz		1 Phase, 220-240V, 50Hz	3 Phase, 380-415V, 50Hz			
Normal cooling capacity (Min-Max)	kW	5.5	7.4	10.6	10.6	12.9	14.4	
Power consumption	kW	1.42	1.79	2.98	3.10	4.22	4.70	
EER		3.87	4.13	3.56	3.42	3.06	3.06	
Inrush current	A	19.6	38.3	58.8	21.2	28.8	25.7	
Max.current	A	9.9	12.0	19.4	7.9	10.0	14.7	
Sound pressure level	Indoor (Hi/Me/Lo)	dB(A)	44/39/34	48/42/35	48/41/34	47/41/34	48/43/34	48/43/36
	Outdoor	dB(A)	50	56	57	56	57	58
Airflow	Indoor (Hi/Me/Lo)	m ³ /min	19/15.5/12	23/18/13	35/26/17	35/26/17	35/29/18	35/29/18
	Outdoor	m ³ /min	26.5	60	75	75	75	132
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	210 x 1320 x 690	210 x 1320 x 690	250 x 1620 x 690	250 x 1620 x 690	250 x 1620 x 690	250 x 1620 x 690
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290	742 x 880(+88) x 340	845 x 970 x 370	845 x 970 x 370	845 x 970 x 370	1300 x 970 x 370
Net weight	Indoor	kg	32	32	42	42	42	42
	Outdoor	kg	40.5	56	73.5	75	74	96
Refrigerant	Type		R32	R32	R32	R32	R32	
	Charge amount (Pre-charge pipe length)	kg(m)	1.0(20)	1.4(15)	1.7(25)	2.0(30)	1.9(25)	2.1(15)
Piping size (Liquid/Gas)	Ømm	Ø6.35/Ø15.88	Ø6.35/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88	Ø9.52/Ø15.88	
Refrigerant line (one way) length	m	30	30	50	50	50	50	
Vertical height differences (Outdoor is higher/lower)	m	Max.10/Max.10	Max.10/Max.10	Max.30/Max.15	Max.30/Max.15	Max.30/Max.15	Max.30/Max.15	
Outdoor operation temperature range	°C	21-46	21-46	21-46	21-46	21-46	21-46	

FDE

NON-INVERTER CEILING SUSPENDED



FDC50CNVX-S



FDC71CNVX-S



FDC100CNV-S
FDC100/125CSV-S



FDE50/71CNVX-S
FDE100CNV-S
FDE100/125/140CSV-S



FDC140CSV-S

REMOTE CONTROL

Wireless (Standard)

Wired (option)



RC-EX3A
RC-EX3D



RC-E5



RC-ES1

SPECIFICATIONS

HI COP

STANDARD

Indoor unit		FDE50CNVX-S	FDE71CNVX-S	FDE100CNV-S	FDE100CSV-S	FDE125CSV-S	FDE140CSV-S
Outdoor Unit		FDC50CNVX-S	FDC71CNVX-S	FDC100CNV-S	FDC100CSV-S	FDC125CSV-S	FDC140CSV-S
Power source		1 Phase, 220-240V, 50Hz			3 Phase, 380-415V, 50Hz		
Norminal cooling capacity (Min-Max)	kW	5.4	7.1	10.5	10.4	12.5	14.5
Power consumption	kW	1.44	1.91	2.91	2.88	4.16	4.50
COP	W/W	3.75	3.72	3.61	3.61	3.00	3.22
Max.current	A	8.2	10.7	17.5	6.0	9.7	11.0
Sound pressure level	Indoor (Hi/Me/Lo)	dB(A)	43/39/34	48/42/35	47/41/34	47/41/34	48/43/35
	Outdoor	dB(A)	51	55	55	57	58
Airflow	Indoor (Hi/Me/Lo)	m ³ /min	20/16.5/13	23/18/13	35/26/17	35/26/17	35/29/18
	Outdoor	m ³ /min	38	60	75	75	132
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	210 x 1,320 x 690		250 x 1,620 x 690		
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370		1300 x 970 x 370
Net weight	Indoor	kg	32	32	42	42	42
	Outdoor	kg	45	58	77.5	79	85
Refrigerant	Type	R410A					
	Charge amount (Pre-charge pipe length)	kg(m)	1.40(15m)	1.50(15m)	2.40(30m)	2.65(30m)	2.15(30m)
Piping size (Liquid/Gas)	Ømm	Ø6.35/Ø15.88		Ø9.52/Ø15.88	Ø9.52/Ø15.88		
Refrigerant line (one way) length	m	30	30	50	50	50	50
Vertical height differences (Outdoor is higher/lower)	m	MAX.10/MAX.10			MAX.30/MAX.15		
Outdoor operation temperature range	°C	21-43					

FDF

NON-INVERTER FLOOR STANDING



FDC71CNV-S



FDC125CSV-S



FDC140CSV-S



FDF71CNV-S
FDF125/140CSV-S

REMOTE CONTROL

Wireless (standard)



SPECIFICATIONS

STANDARD

Indoor unit		FDF71CNV-S	FDF125CSV-S	FDF140CSV-S	
Outdoor Unit		FDC71CNV-S	FDC125CSV-S	FDC140CSV-S	
Power source		1 Phase, 220-240V, 50Hz	3 Phase, 380-415V, 50Hz		
Normal cooling capacity (Min-Max)	kW	7.1	12.5	14	
Power consumption	kW	2.5	4.46	4.7	
COP	W/W	2.84	2.8	2.98	
Max.current	A	13	10.5	11.4	
Sound pressure level	Indoor (Hi/Me/Lo)	dB(A)	48/40*	51/41/37	54/41/37
	Outdoor	dB(A)	56	58	59
Airflow	Indoor (Hi/Me/Lo)	m ³ /min	21/15**	25/17/15	28/17/15
	Outdoor	m ³ /min	37	75	132
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	1,850 x 600 x 320		
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290	845 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor	kg	51	53	53
	Outdoor	kg	46	85	108
Refrigerant	Type		R410A		
	Charge amount (Pre-charge pipe length)	kg(m)	1.40 (15m)	2.15 (30m)	3.10 (30m)
Piping size (Liquid/Gas)	Ømm	Ø6.35 / Ø15.88		Ø9.52 / Ø15.88	
Refrigerant line (one way) length	m	30	50	50	
Vertical height differences (Outdoor is higher/lower)	m	MAX.10/MAX.10	MAX.30/MAX.15		
Outdoor operation temperature range	°C	21-43			

*Sound pressure level (Hi/Lo)

**Airflow (Hi/Lo)

FDU

BIG CAPACITY DUCT CONNECTED



FDU200/250CSY-S



FDU400/500CSY-S



FDC200/250CSY-S

REMOTE CONTROL

Wired (standard) Wireless (option)



RCN-Q1

SPECIFICATIONS

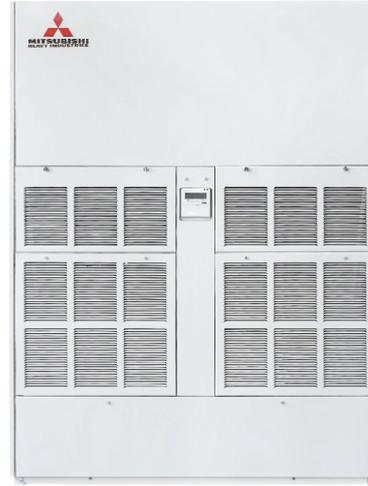
Indoor unit		FDU200CSY-S	FDU250CSY-S	FDU400CSY-S	FDU500CSY-S
Outdoor Unit		FDC200CSY-S	FDC250CSY-S	FDC200CSY-S x2	FDC250CSY-S x2
Power source	Indoor	1 Phase, 220 - 240V, 50 Hz			
	Outdoor	3 Phase, 380 - 415V, 50 Hz			
Nominal cooling capacity	kW	22.5	25.0	42.0	50.0
Power consumption	kW	7.3	9.0	14.6	18.0
COP	W/W	3.08	2.78	2.87	2.78
Max.current	dB(A)	19.0	20.0	38.0	40.0
Sound pressure level	Indoor (Hi/Me/Lo)	dB(A)	54/51/48	54/51/48	58/55/52
	Outdoor	dB(A)	60		60x2
Airflow	Indoor (Hi/Me/Lo)	m ³ /min	76/67/55	76/67/55	120/113/93
	Outdoor	m ³ /min	200		200x2
Available static pressure	Pa	STD: 80 MAX: 200			
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	360x1570x830		685 x 1570 x 830
	Outdoor (HeightxWidthxDepth)	mm	1675x1080x480		(1675 x 1080 x 480) x 2
Net weight	Indoor	kg	99	99	180
	Outdoor	kg	181	181	181x2
Refrigerant	Type		R410		
	Charge amount (Pre-charge pipe length)	kg(m)	6.5(5m)	7.4(5m)	6.5(5m) x 2
Piping size (Liquid/Gas)	φmm	φ12.7/φ22.22			
Refrigerant line (one way) length	m	50			
Vertical height differences (Outdoor is higher/lower)	m	MAX.30/MAX.15			
Outdoor operation temperature range	°C	10-43			

FDF

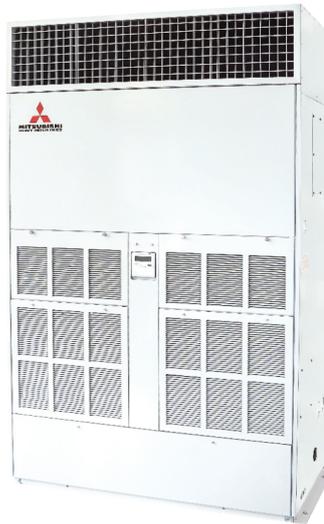
BIG CAPACITY FLOOR STANDING



FDF250CSY-S



FDAS500CSY-S



FDF500CSY-S +
AS-DA500CSY

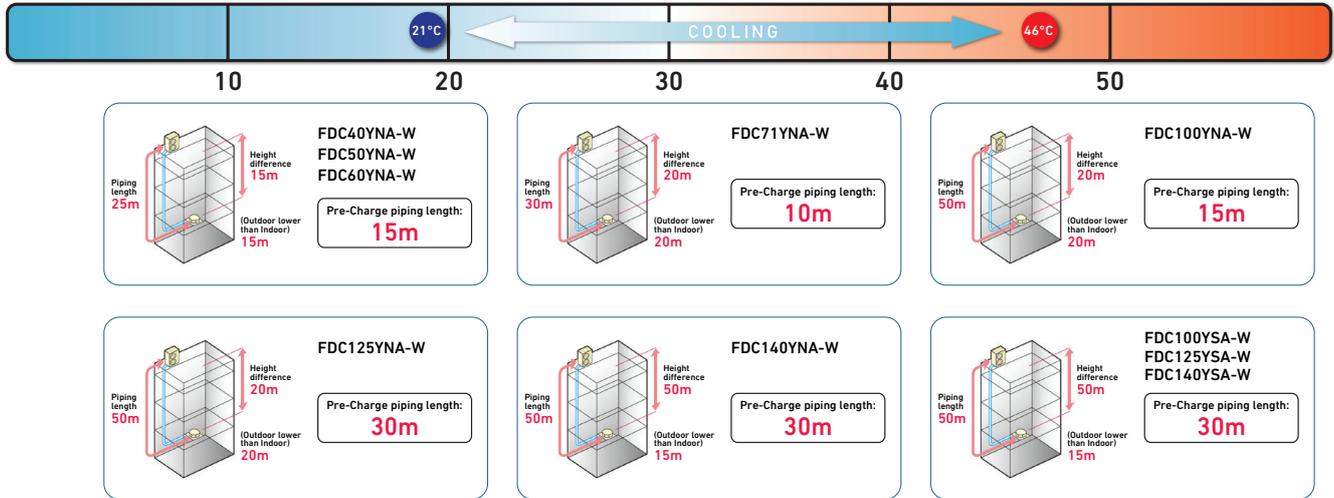


SPECIFICATIONS

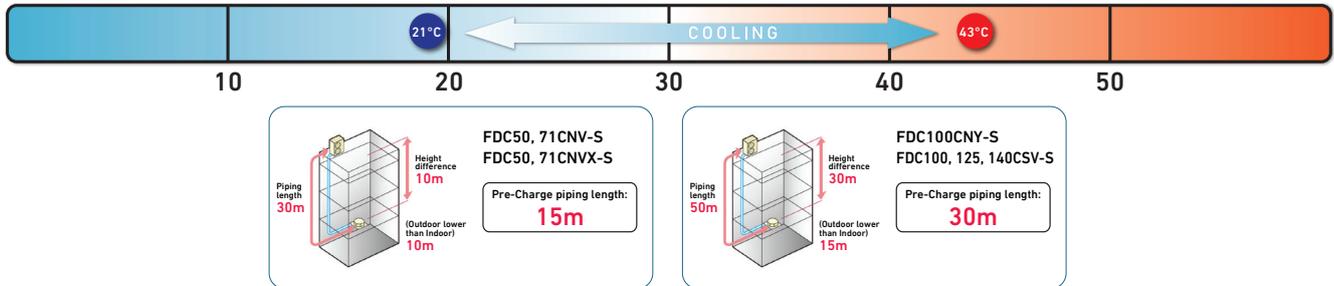
Indoor unit		FDF250CSY-S	FDF500CSY-S + AS-DA500CSY	FDAS500CSY-S
Outdoor Unit		FDC250CSY-S	FDC250CSY-S x 2	
Power source	Indoor	1 Phase, 220 - 240V, 50 Hz	3 Phase, 380 - 415V, 50 Hz	
	Outdoor		3 Phase, 380 - 415V, 50 Hz	
Nominal cooling capacity	kW	25.0	50.0	
Power consumption	kW	9.0	18.0	19.0
COP		2.78	2.78	2.63
Max.current	dB(A)	20.0	41.0	43.0
Sound pressure level	Indoor (Hi/Me/Lo)	dB(A)	54/49/44	68
	Outdoor	dB(A)	60	60x2
Airflow	Indoor (Hi/Me/Lo)	m ³ /min	60/41/35	160
	Outdoor	m ³ /min	200	200x2
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	1850 x 1200 x 320	2020 x 1500 x 800
	Outdoor (HeightxWidthxDepth)	mm	1675 x 1080 x 480	(1675 x 1080 x 480) x 2
Net weight	Indoor	kg	99	362
	Outdoor	kg	181	181x2
Refrigerant	Type		R410A	
	Charge amount (Pre-charge pipe length)	kg(m)	7.4(5m)	7.4(5m) x 2
Piping size (Liquid/Gas)	φmm	Ø12.7/Ø22.22		
Refrigerant line (one way) length	m	50		
Vertical height differences (Outdoor is higher/lower)	m	MAX.30/MAX.15		
Outdoor operation temperature range	°C	10-43		

Usage Limitation

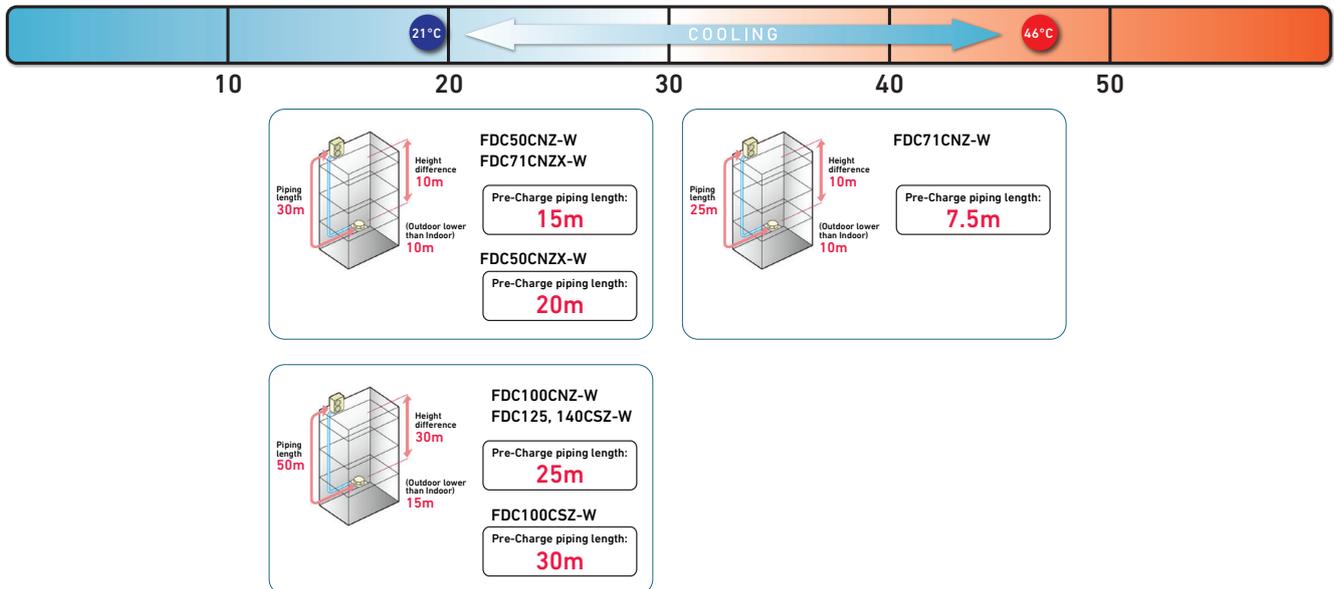
Inverter



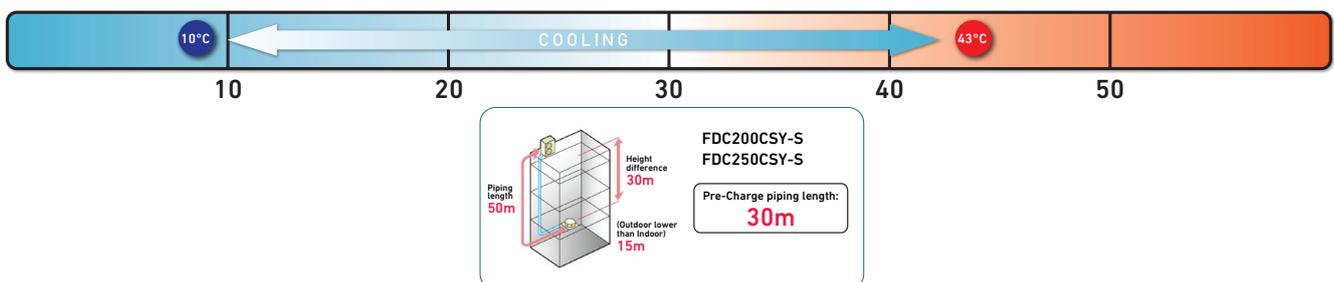
Non-Inverter



Non-Inverter



Big Capacity



Before starting use

Heating performance

The heating performance values (kW) described in the catalogue are the values obtained by operating at an outdoor temperature of 7°C and indoor temperature of 20°C as set forth in the ISO Standards. As the Heating performance decreases the outdoor temperature drops, If the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

Indication of sound values

The sound values are the values (A scale) measured in a chamber such as an anechoic chamber following the ISO Standards. In the actual installation state, the value is normally larger than the values given in the catalog due to the effect of surrounding noise and echo. Take this into consideration when installing.

Use in oil atmosphere

Avoid installing this unit in an atmosphere where oil scatters or builds up, such as in a kitchen or machine factory.

If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

Use in acidic or alkaline atmosphere

If this unit is used in acidic atmosphere such as hot spring areas having high level of sulfuric gases or in alkaline atmosphere including ammonia or calcium chloride, places where the exhaust of the heat exchanger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or heat exchanger, etc., will corrode. Please ask a dealer or specialist when you use an air-conditioner in places differing from a general atmosphere.

Safety Precautions

Air-conditioner usage target

The air-conditioner described in this catalogue is a dedicated cooling/heating device for human use. Do not use it for special applications such as the storage of food items, animals or plants, precision devices or valuable art, etc. This could cause the quality of the items to drop, etc. Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

Before use

Always read the "User's Manual" thoroughly before starting use.

Refrigerant leakage

The refrigerant (R32, R410A) used for Air conditioner is non-toxic and inflammable in its original state. However, in consideration of a state where the refrigerant leaks into the room, measures against refrigerant leaks must be taken in small rooms where the tolerable level could be exceeded. Take measures by installing ventilation devices, etc.

Use in snow areas

Take the following measures when installing the outdoor unit in snowy areas.

- Snow piling
Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter freeze in the outdoor unit.
- Snow piling
In areas with heavy snow fall, the piled snow could block the air intake port. In this case, a frame that is 50cm or higher than the estimated snow fall must be installed underneath the outdoor unit.

Automatic defrosting device

If the temperature is low, and the humidity is high, frost will stick to the heat exchanger of the outdoor unit. If use is continued, the heating performance will drop.

The "Automatic defrosting device" will function to remove the frost.

After heating for approx. three to ten minutes, it will stop, and the frost will be removed. After defrosting, hot air will be blown again.

Servicing the air-conditioner

After the air-conditioner is used for several seasons, dirt will build up in the air-conditioner causing the performance to drop. In addition to regular servicing, we recommend the maintenance contract (charged for) by a specialist.

Installation

Always commission the installation to a dealer or specialist. Improper installation will lead to water leakage, electric shocks and fires.

Make sure that the outdoor unit is stable in installation. Fix the unit to stable base.

Usage place

Do not install in places where combustible gas could leak or where there are sparks. Installation in a place where combustible gas could be generated, flow or accumulate, or places containing carbon fibers could lead to fires.

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Certified ISO 9001



JQA-0709



Mitsubishi Heavy Industries - Mahajak Air Conditioners Co., Ltd. has been certified of Quality Management System in accordance with ISO 9001 by TUV NORD (Thailand) Ltd.



Mitsubishi Heavy Industries Thermal Systems, Ltd. Participate in the Eurovent certification program for comfort air-conditioner (AC1 & AC2). Check ongoing validity of certificate: www.eurovent-certification.com

Certified ISO 14001



Mitsubishi Heavy Industries - Mahajak Air Conditioners Co., Ltd. has been certified of Environmental Management System in accordance with ISO 14001 by TUV NORD (Thailand) Ltd.



Because of our policy of continuous improvement, we reserve right to make changes in all specifications without notice.

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