



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



FD series

High Performance Packaged Air-Conditioners

2022-2023

High Performance Air-Conditioning FD series

The PAC range from Mitsubishi Heavy Industries Thermal systems is ideal for air conditioning offices, shops, restaurants, and bars ... 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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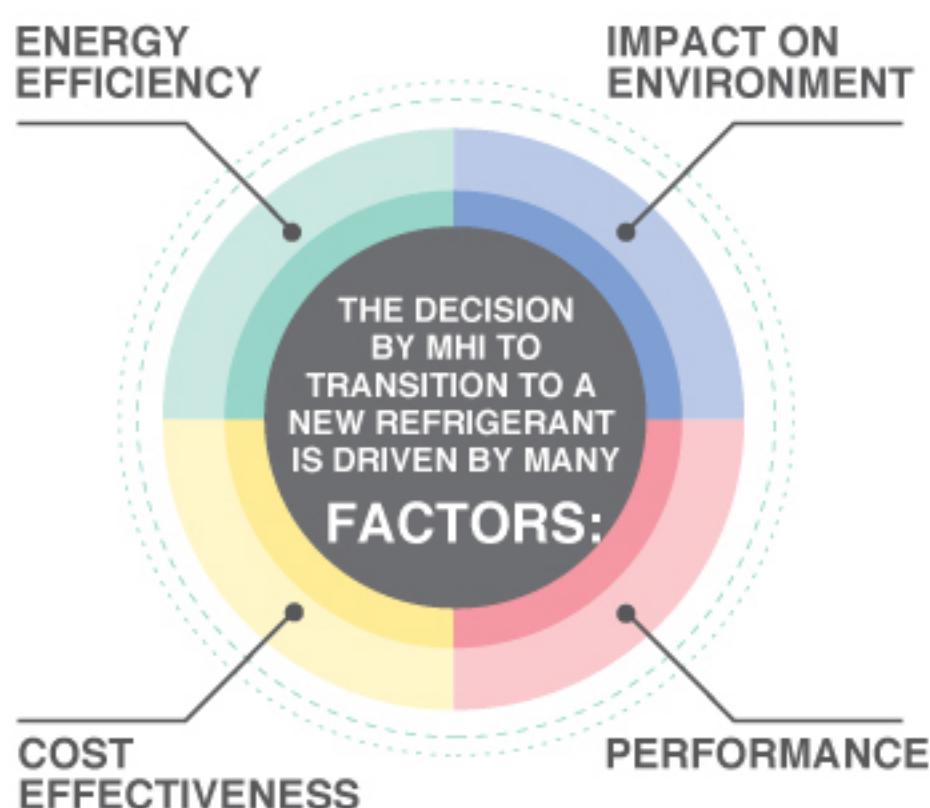
Next Generation Refrigerant R32

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



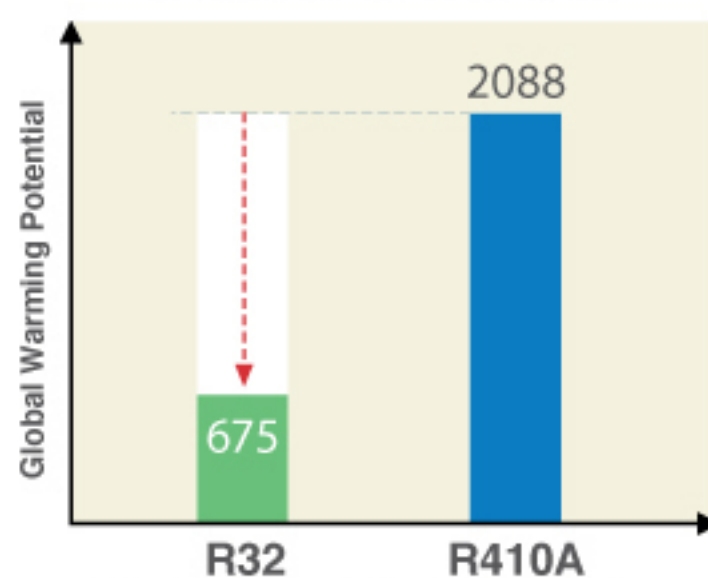
R32 - A Low GWP Refrigerant

- 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

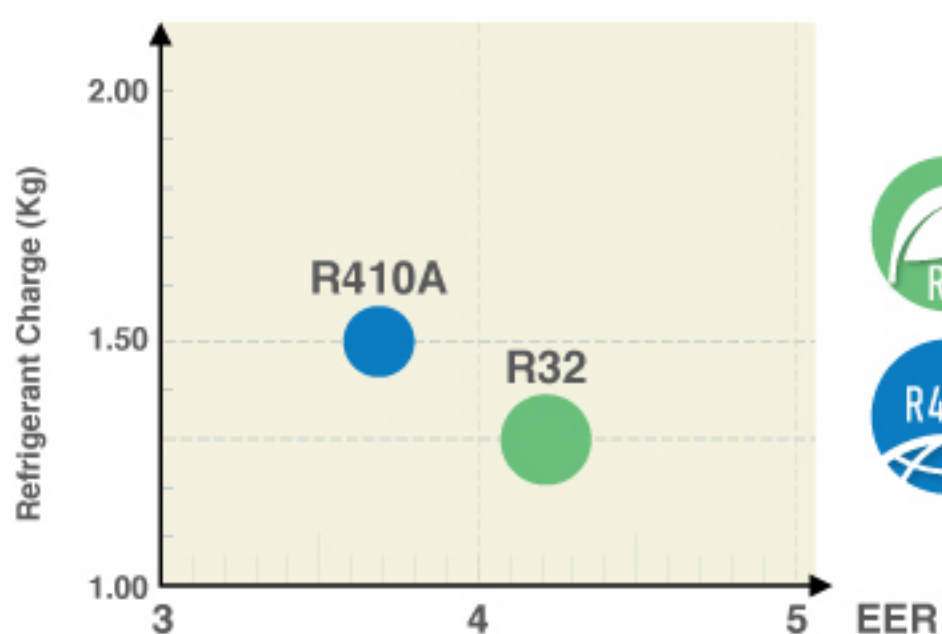
1/3 GWP VS. R410A



GWP Values based on IPCC 4th Assessment Report

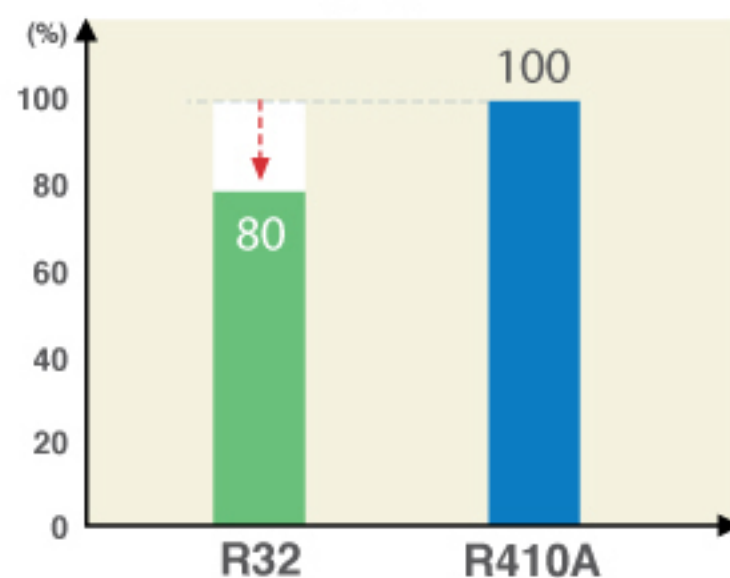


Superior Energy Efficiency



Reduced Refrigerant Charge

Saving up to 20%



FDT



FDU



FDUM



FDE

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

New Generation FDT



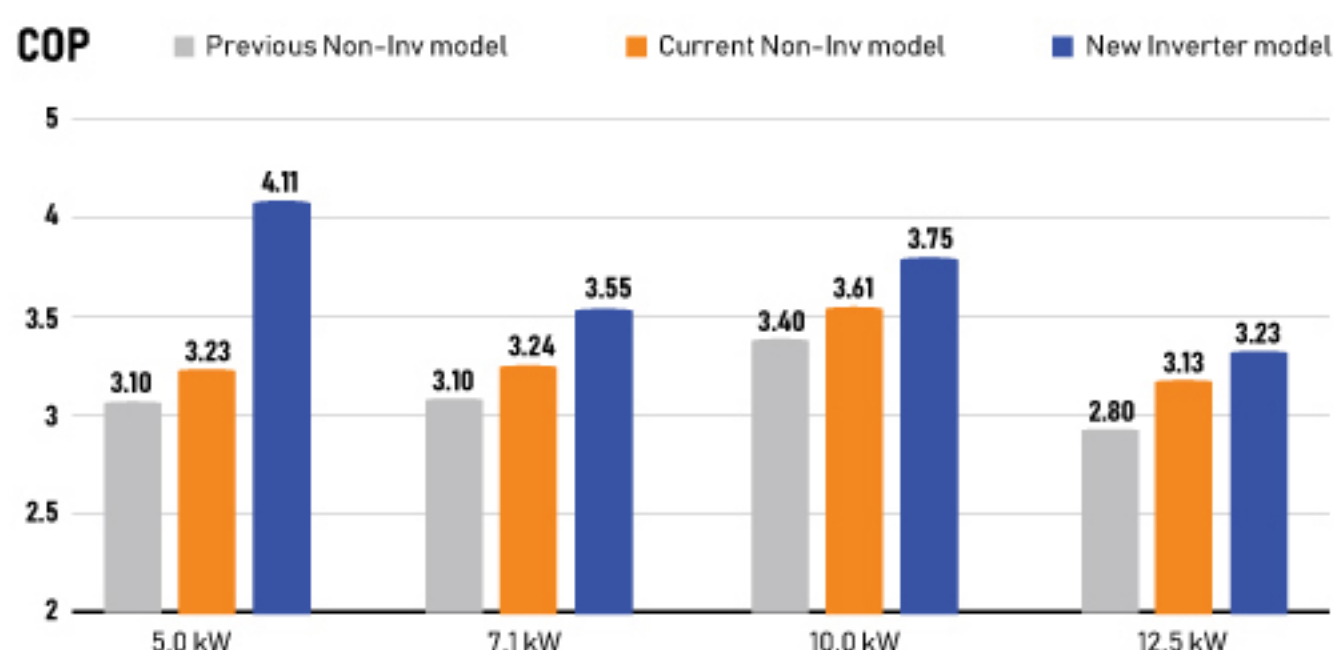
Automatic energy saving control

Keep maximum comfort with minimal draft

Quiet operation

High energy efficiency with new technology

New FDT can achieve higher Coefficient of Performance (COP) by 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)

Flexible flap control for draft prevention. Brand new function in the market



Draft Prevention Panel (Option)

4 additional flaps are to be controlled individually at each operation mode. They change air flow direction and prevents draft feeling. This new function also achieve more flexible control for air flow direction.

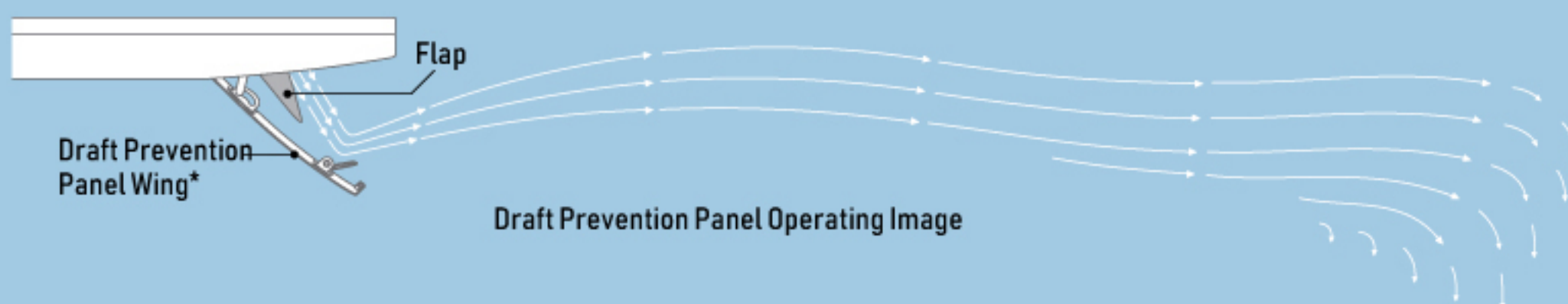


Motion Sensor (Option)

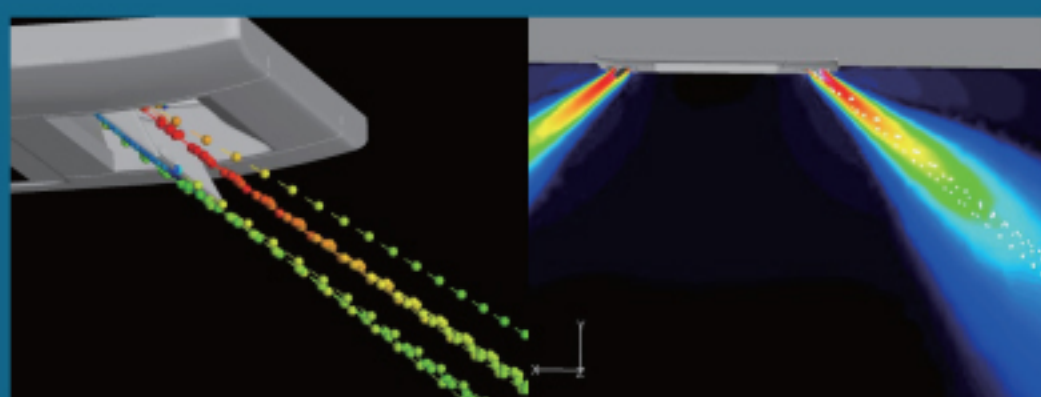
New motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.

Draft Prevention

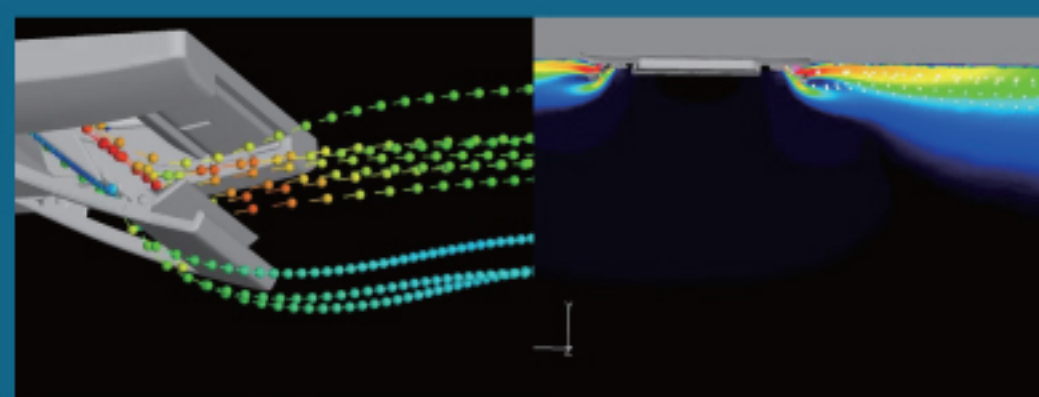
Keep maximum comfort with minimal draft:
New FDT & FDTC control flaps with more flexibility.



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-VH 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 it 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)



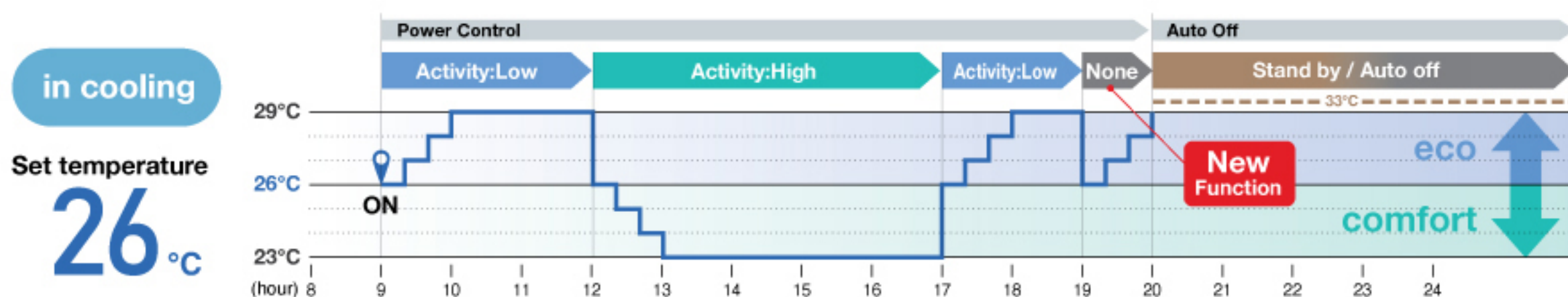
High human activity (in cooling)



Absence for 1 hour



12 hours absence



Operation mode and
Control of Motion sensor

eco operation
comfort operation

Operation mode

Auto

Cool

Dry

Fan

Power
Control *1



Low

High

None

Cooling +3°C

Cooling -3°C

Cooling +3°C

+3°C

-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

Remote Control

Simple use with advanced settings

REMOTE CONTROL

Intuitive touch controller with
Liquid Crystal Display



RC-EX3A

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.

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 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 favorite setting.

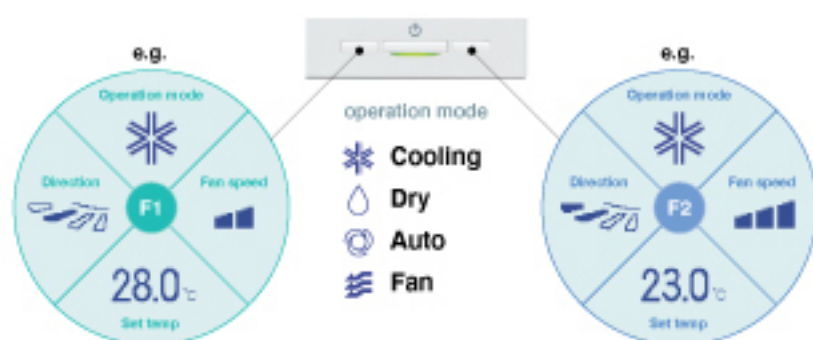
7. Filter Sign



Announces the due time for cleaning the air filter.

Favourite Mode

Operation mode, set temperature, fan speed and air flow direction are memorized and allocated to two buttons that can be operated by one touch.



Adjustable Brightness of the Operation Lamp

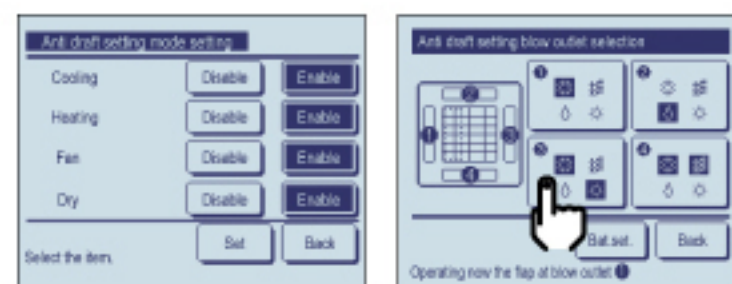
The brightness of the operation lamp behind Run/Stop switch can be adjusted by 10 stages.



Draft Prevention Setting

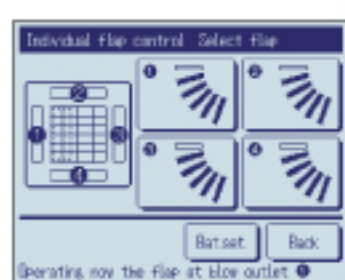
(only FDT-FDTC series)

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.



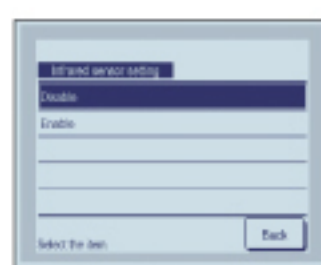
Motion Sensor Control

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

1 Select Enable / Disable Motion sensor control



Enable/Disable



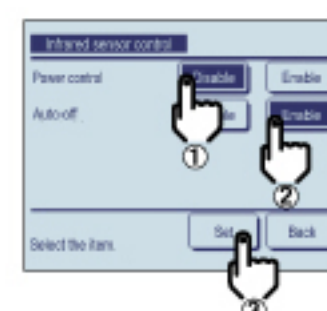
Select [Enable]/[Disable] for the motion sensor of the indoor unit connected to the R/C.

2 Select Enable / Disable per control

- Power control
- Auto-off



Enable/Disable



Backup Control Control restricted to two indoor units (two groups)

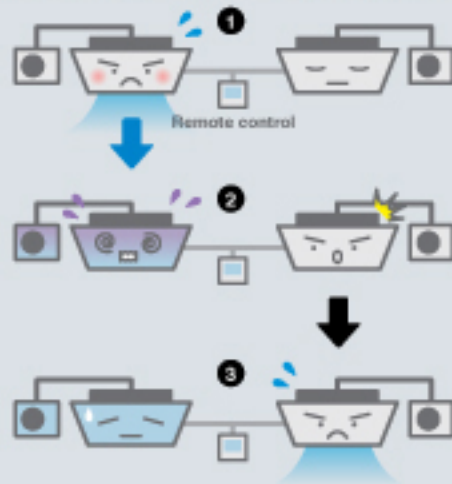


Fault backup control

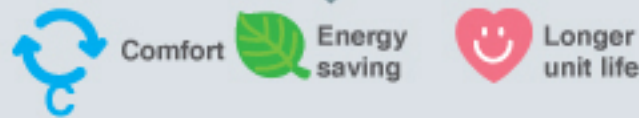


Keep back up all the time!

If one of the two indoor units malfunctions and stops its operation, the other starts backup operation so that users' comfort will not be compromised.

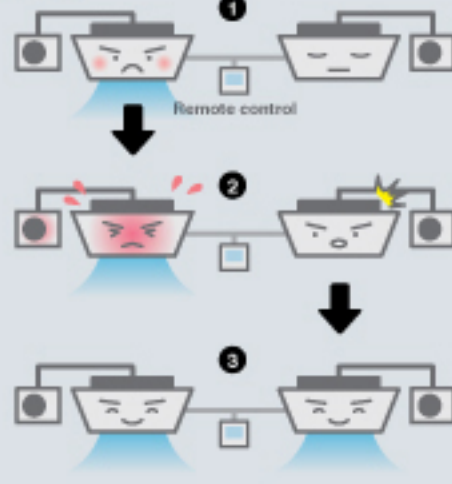


Capacity backup control



Maintains users' comfort!

When the control system detects either of its two units operating with overload, the other unit cover the capacity.

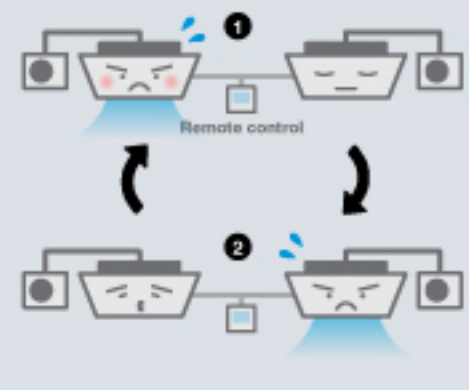


Rotational operation control



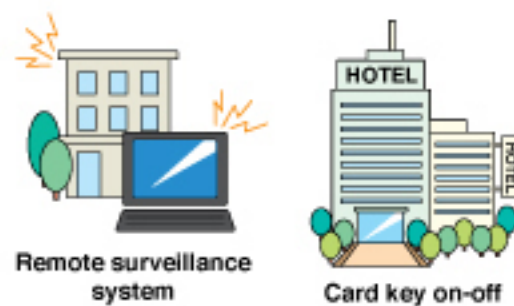
Energy saving and longer life!

By operating two indoor units alternately, their chronological changes are equalized. (The alternate operation cycle can be specified in a range from 1 to 999 hours in increments of 1 hours.)



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

CNT (1-6)	CNTA (1-2)
Input	On/Off Permission/Prohibition Cooling/Heating Emergency Stop
	Set temp. shift Forced thermo-off IU operation stop Silent mode

Newly added

External Output

CNT (New)
2 Output - Operation - Heating - Compressor ON (thermo-ON)
3 Output - 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
5 Output

Newly added

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.



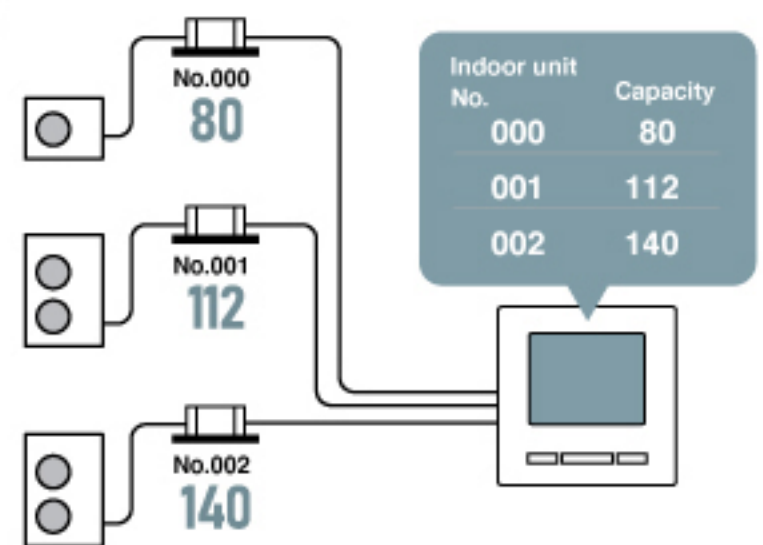
Language Switching

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



Indoor Unit Capacity Display

Capacities of Indoor units connected to the RC-EX3A are displayed.

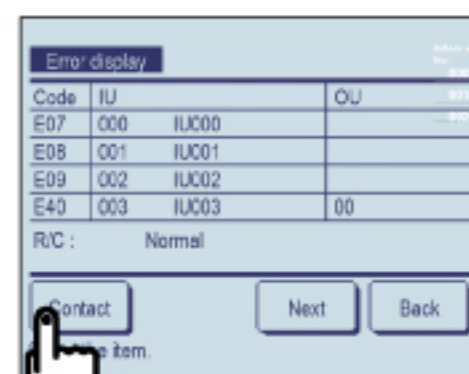
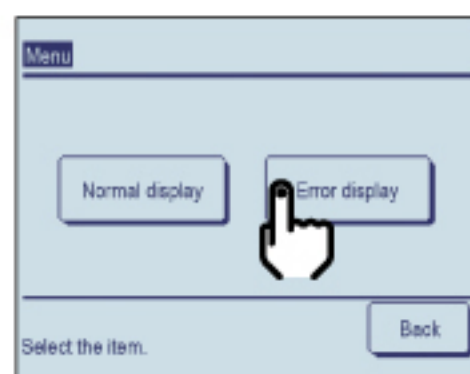
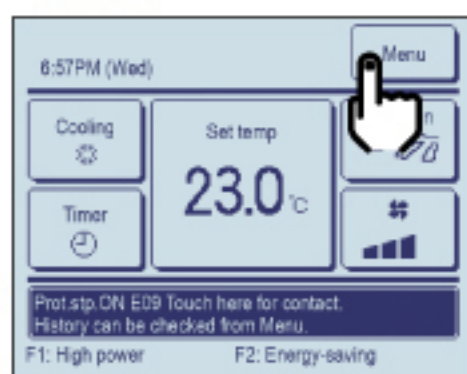


Error display

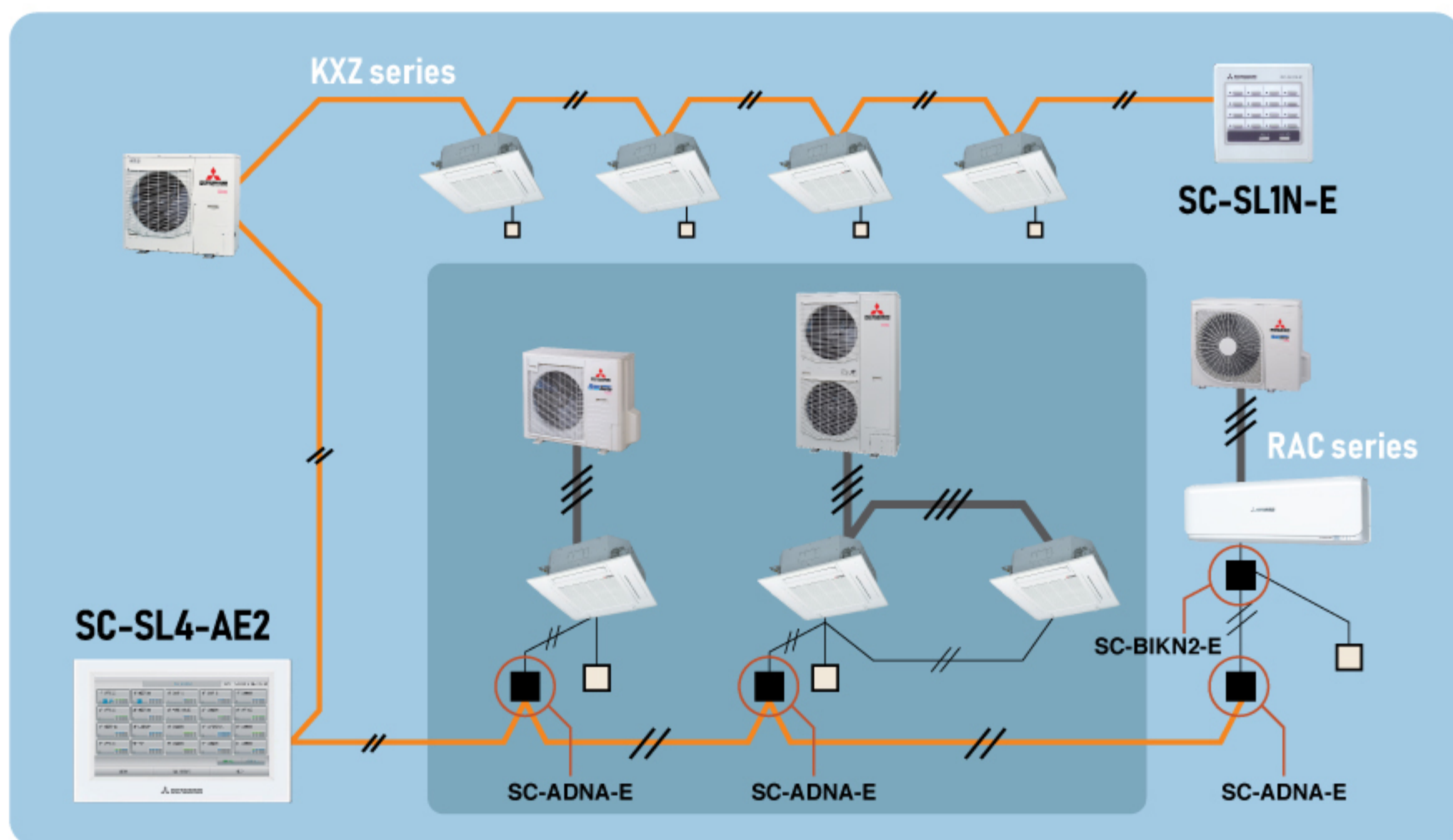
If any error occurs on the air conditioner, the "Unit protection stop" is indicated on the message display.



"Error"



SUPERLINK II Control Systems

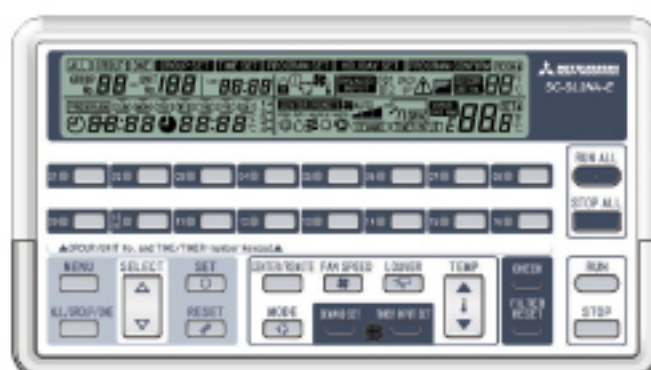


Central Control



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-AE2/BE2

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



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

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.



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
● Standard

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

Indoor units

INVERTER SERIES BENEFITS SUMMARY

		FDT	FDU	FDUM	FDE
					
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
	 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			
	 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
					
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	●
	 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-EX3A (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 being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



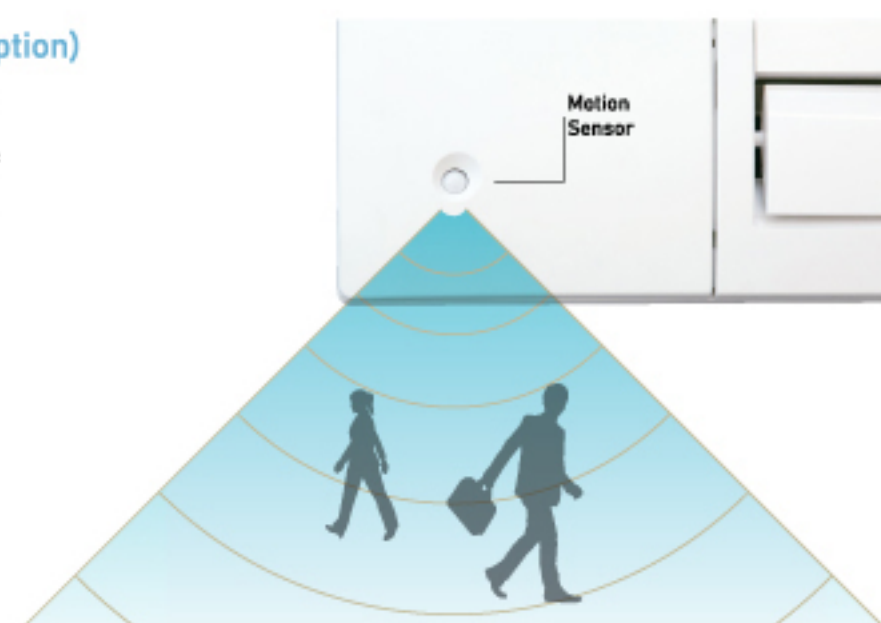
User can position panels by using the remote controller only (RC-EX3A, Wireless kit) when Draft Prevention Panel is available.

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.

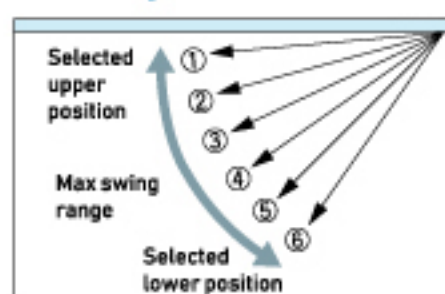


LB-T-5BW-E(White)
LB-T-5BB-E(Black)



Individual Flap Control System

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

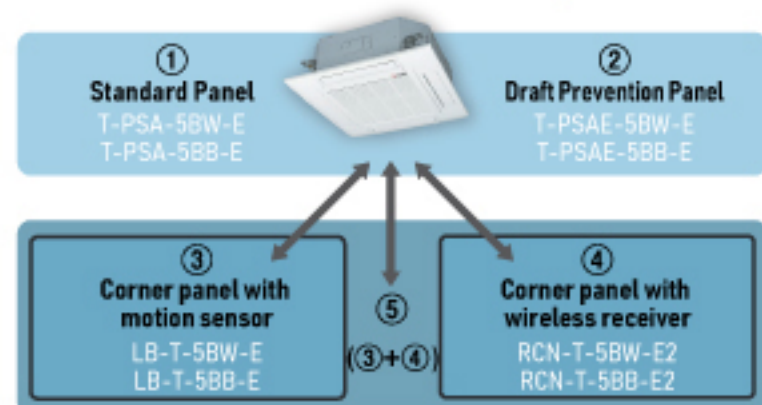


Flap can swing within an upper and lower flap range position within can be selected with a wired remote control.

• 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



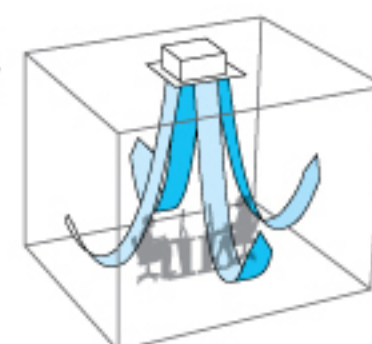
*Wireless receiver and Motion sensor can be installed to the position as shown

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

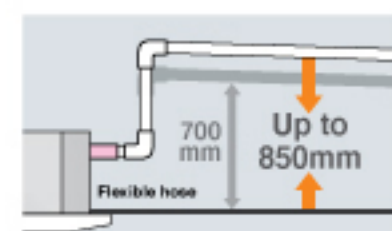
Suitable for High ceilings

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

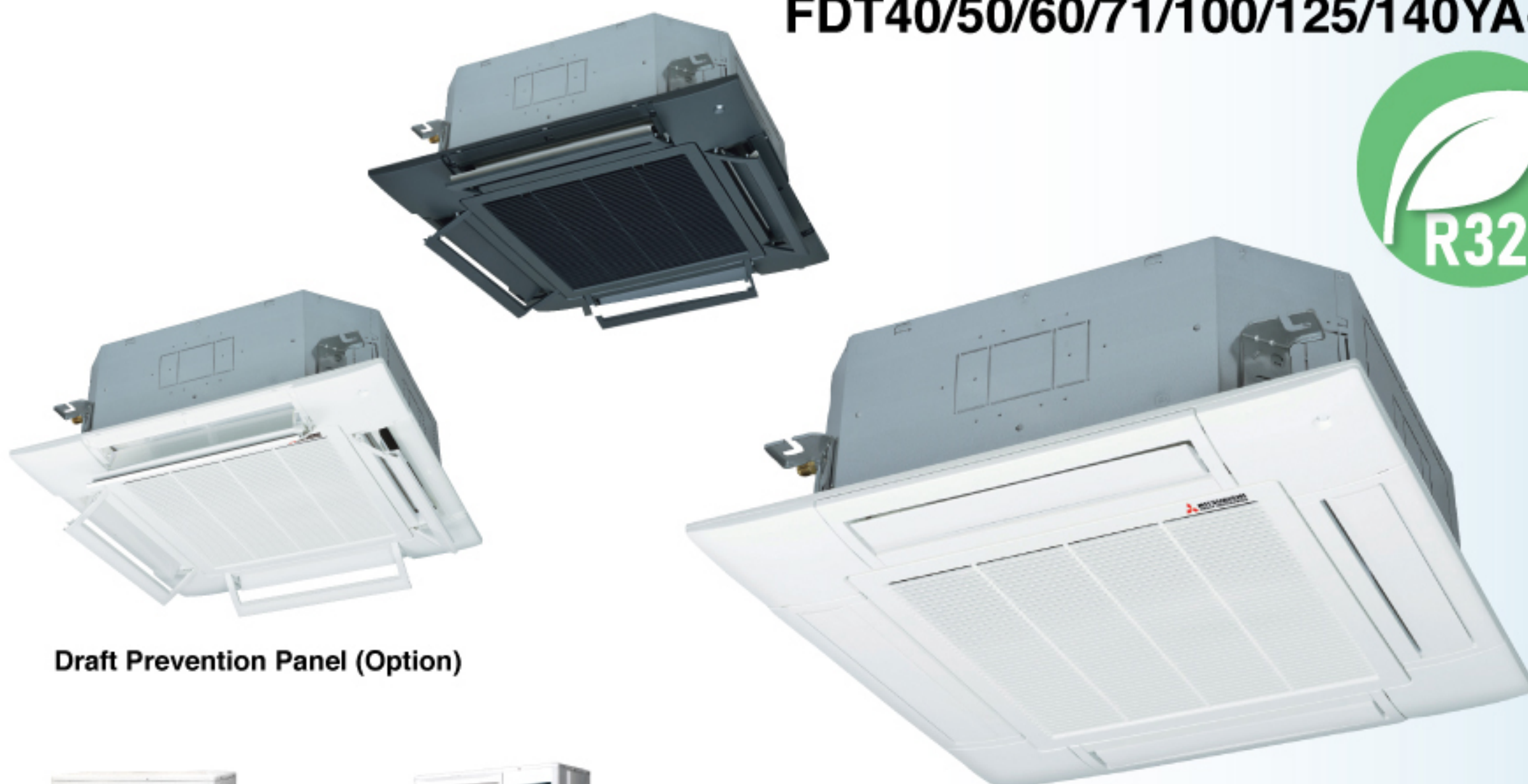
Drain can be discharged upwards up to 850mm from the ceiling surface, allowing a piping layout with a high degree of freedom. Thanks to the 185mm flexible hose, equipment supports easy workability.



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

FDT INVERTER CEILING CASSETTE

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



Draft Prevention Panel (Option)



FDC40YNA-W
FDC50YNA-W
FDC60YNA-W



FDC100YNA-W



FDC71YNA-W



FDC125YNA-W
FDC140YNA-W

Remote control (option)

Wired



RC-EX3A



RC-E5



RCH-E3

Wireless



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

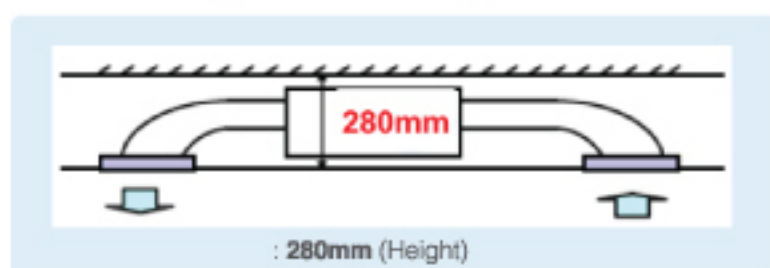
SPECIFICATIONS

Indoor unit			FDT40YA-W	FDT50YA-W	FDT60YA-W	FDT71YA-W	FDT100YA-W	FDT125YA-W	FDT140YA-W
Outdoor Unit			FDC40YNA-W	FDC50YNA-W	FDC60YNA-W	FDC71YNA-W	FDC100YNA-W	FDC125YNA-W	FDC140YNA-W
Power source			1Phase 220-240V, 50Hz/ 220, 60Hz						
Nominal cooling capacity (Min-Max)		kW	4.30 (1.6~4.8)	5.30 (1.6~5.7)	6.10 (1.6~6.0)	7.10 (1.3~7.7)	10.5 (2.0~11.5)	12.5 (3.1~12.8)	14.0 (3.2~14.5)
Power consumption		kW	0.99	1.38	1.72	2.00	2.80	3.87	4.40
EER			4.34	4.11	3.65	3.55	3.75	3.23	3.18
Inrush current		A	4.6 / 4.4 / 4.2	6.3 / 6.0 / 5.8	7.9/7.5/7.2	9.1 / 8.7 / 8.4	12.8 /12.2 /11.7	17.5 /16.9 /16.2	20.2/19.3/18.5
Max.current		A	13	13	2.6	13.8	17	18.0	24
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
	Outdoor	dB(A)	49	50	52	54	57	58	59
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m3/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
	Outdoor	m3/min	30	32.5	34.5	30	58.4	79	75
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	236 x 840 x 840				298 x 840 x 840		
	Outdoor (HeightxWidthxDepth)	mm	595 x 780 x 290			640 x 800 x 290	750 x 880 x 340	845 x 970 x 370	845 x 970 x 370
Net weight	Indoor	kg	24	24	26	26	30	30	30
	Outdoor	kg	32			37	51	72	67
Refrigerant type	Type		R32						
	Charge amount	kg	0.83	0.83	0.83	1.05	1.55	1.70	1.70
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	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
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



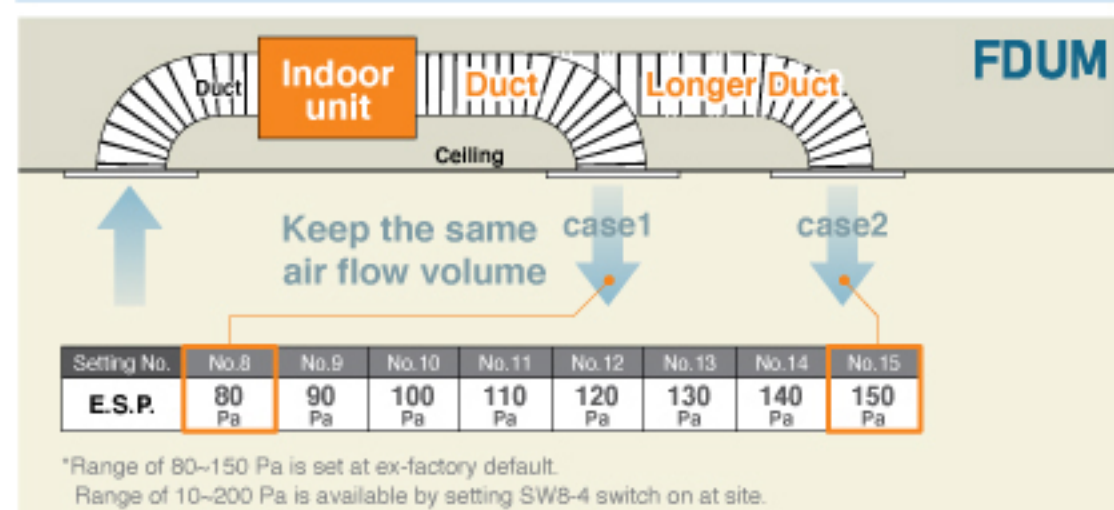
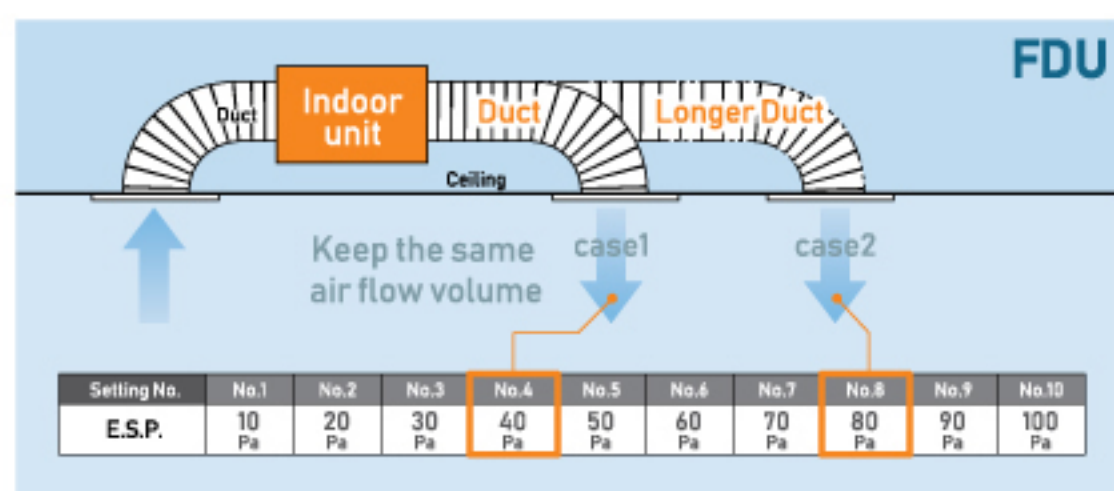
Automatic External Static Pressure (E.S.P.) Control

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.

RC-E5

E.S.P. button

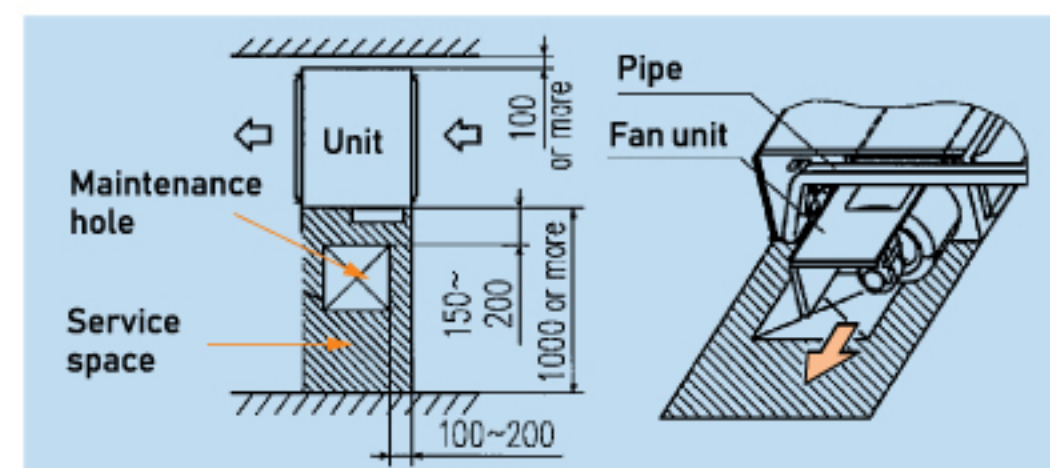
External Static Pressure (E.S.P.) can be set by E.S.P. button.



*Range of 80~150 Pa is set at ex-factory default.
Range of 10~200 Pa is available by setting SW8-4 switch on at site.

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.



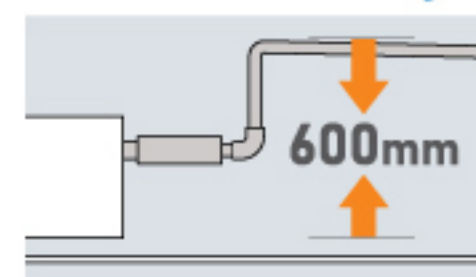
Transparent Inspection Window

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



Enhanced Installation Workability

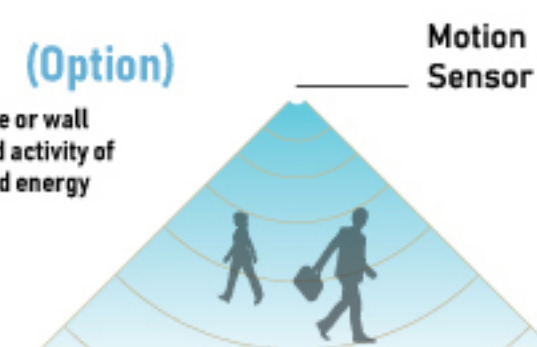
600mm Drain Pump is mounted in all models. The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



Motion Sensor

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.

(Option)



LB-KIT2

FDUM & FDU

INVERTER DUCT CONNECTED



FDUM40/50/60/71YA-W



FDU100/125/140YA-W

Remote control (option)



RC-EX3A
RC-EXZ3A

RC-E5

RCH-E3



RCN-KIT4-E2



FDC40YNA-W
FDC50YNA-W
FDC60YNA-W



FDC100YNA-W



FDC71YNA-W



FDC125YNA-W
FDC140YNA-W

SPECIFICATIONS

FDUM SERIES

FDU SERIES

Indoor unit			FDUM40YA-W	FDUM50YA-W	FDUM60YA-W	FDUM71YA-W	FDU100YA-W	FDU125YA-W	FDU140YA-W
Outdoor Unit			FDC40YNA-W	FDC50YNA-W	FDC60YNA-W	FDC71YNA-W	FDC100YNA-W	FDC125YNA-W	FDC140YNA-W
Power source			1Phase 220-240V, 50Hz/ 220, 60Hz						
Nominal cooling capacity (Min-Max)		kW	4.30 (1.6~4.8)	5.30 (1.6~5.7)	6.10 (1.6~6.0)	7.10 (1.3~7.7)	10.5 (2.0~11.5)	12.0(3.0~12.0)	14.0 (3.2~14.5)
Power consumption		kW	1.13	1.59	1.77	2.20	3.10	3.82	4.50
EER			3.81	3.33	3.45	3.23	3.39	3.14	3.11
Inrush current		A	5.2/5.0/4.8	7.3/7.0/6.7	8.1/7.7/7.4	10.1/9.6/9.2	14.1/13.5/13.0	17.4/16.7/16.0	20.6/19.7/18.9
Max.current		A	13	13	13	13.8	17	20	27
Sound pressure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A)	32/26/25/23		33/27/26/23	38/33/29/25	39/35/33/30	39/34/30/28	42/35/31/28
	Outdoor	dB(A)	50	52		54	57	61	59
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m3/min	13/10/9/8		20/15/13/10	24/19/15/10	36/28/25/19	39/32/26/20	48/35/28/22
	Outdoor	m3/min	32.50		34.5	30	58.4	79	75
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	280 x 750X635		280 x950 x 635		280 x 1,370 x 740		
	Outdoor (HeightxWidthxDepth)	mm	595 x 780 x 290			640 x 800 x 290	750 x 880 x 340	845 x 970 x 370	845 x 970 x 370
Net weight	Indoor	kg	29	29	29	34	54	54	54
	Outdoor	kg	32			37	51	72	67
Refrigerant type	Type		R32						
	Charge amount	kg(m)	0.83			1.05	1.55	1.70	1.70
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	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
Outdoor operation temperature range		℃	21~46						



CEILING SUSPENDED FDE

IMPROVED INSTALLATION 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 be serviced from the bottom.

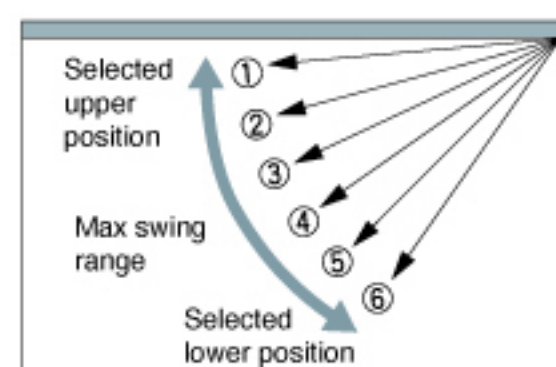


COMPACT AND MODERN DESIGN

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.

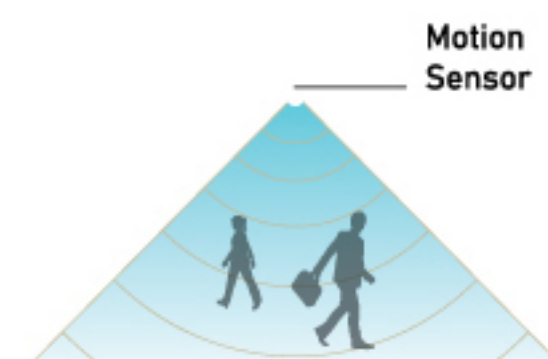
* The wireless remote control is not applicable to the flap control system.

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



FDE INVERTER CEILING CASSETTE



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



FDE40YA-W
FDE50YA-W
FDE60YA-W



FDE100YA-W



FDE71YA-W



FDE125YA-W
FDE140YA-W

Remote control (option)

Wired



RC-EX3A



RC-E5



RCH-E3

Wireless



RCN-E-E3



SPECIFICATIONS

Indoor unit			FDE40YA-W	FDE50YA-W	FDE60YA-W	FDE71YA-W	FDE100YA-W	FDE125YA-W	FDE140YA-W
Outdoor Unit			FDC40YNA-W	FDC50YNA-W	FDC60YNA-W	FDC71YNA-W	FDC100YNA-W	FDC125YNA-W	FDC140YNA-W
Power source			1Phase 220-240V, 50Hz/ 220, 60Hz						
Nominal cooling capacity (Min-Max)		kW	4.30 (1.6~4.8)	5.30 (1.6~5.7)	6.10 (1.6~6.0)	7.10 (1.3~7.7)	10.5 (2.0~11.5)	12.3 (3.1~12.6)	14.0 (3.2~14.5)
Power consumption		kW	1.03	1.42	1.82	2.24	2.90	3.88	4.40
EER			4.17	3.73	3.35	3.17	3.62	3.17	3.18
Inrush current		A	4.7/4.5/4.3	6.5/6.2/5.9	8.3/8.0/7.6	10.2/9.8/9.4	13.2/12.6/12.1	17.7/16.9/16.2	20.1/19.2/18.4
Max.current		A	13	13	13	13.8	17	18.0	24
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
	Outdoor	dB(A)	49	50	52	54	57	62	59
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m3/min	13/10/9/7		14/11/9/7	20/16/13/10	32/26/21/16.5	32/29/23/27	34/29/23/18
	Outdoor	m3/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 x 290			640 x 800 x 290	750x880x340	845x970x370	845x970x370
Net weight	Indoor	kg	28			33	43	43	43
	Outdoor	kg	32			37	51	72	67
Refrigerant type	Type		R32						
	Charge amount	kg(m)	0.83			1.05	1.55	1.70	1.70
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	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
Outdoor operation temperature range		℃	21-46						

FDT

NON-INVERTER CEILING CASSETTE



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



Draft Prevention Panel (Option)

REMOTE CONTROL

Wireless (option)



RCN-T-5AW-E2

Wired (option)



RC-EX3A



RC-E5



RCH-E3



FDC50/71CNV-S
FDC50CNVX-S



FDC71CNVX-S



FDC100CNV-S
FDC100/125CSV-S



FDC140CSV-S

SPECIFICATIONS

HI-COP

Indoor unit		FDT50CNVX-S	FDT71CNVX-S
Outdoor Unit		FDC50CNVX-S	FDC71CNVX-S
Power source		1Phase 220-240V, 50Hz	
Normal cooling capacity (Min-Max)	kW	5.4	7.1
Power consumption	kW	1.43	1.91
EER		3.78	3.72
Inrush current	A	34	44
Max.current	A	8.2	10.7
Sound pressure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A)	37/35/34/32
	Outdoor	dB(A)	46/43/39/37
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m3/min	22/19/16/14
	Outdoor	m3/min	32/26/21/17
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	236 x 840 x 840
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290
Net weight	Indoor	kg	22
	Outdoor	kg	45
Refrigerant type	Type	R410A	
	Charge amount	kg(m)	1.40(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 380-415, 50Hz		
Normal 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
EER			3.23	3.24	3.61	3.61	3.13	3.22
Inrush current		A	34	44	58.7	16.4	49.7	53.1
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		44/41/39/36
	Outdoor	dB(A)	51		56	55		59
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m3/min	22/20/17/15		32/26/21/17	31/26/23/17		31/28/25/18
	Outdoor	m3/min	38		37	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			840 x 970 x 290		1300x 970 x 370
Net weight	Indoor	kg	20	22	25	25	25	25
	Outdoor	kg	42	46	77.5	79	85	108
Refrigerant type	Type		R410A					
	Charge amount	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



FDC50/71CNV-S



FDC100CNV-S



FDC140CSV-S



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

FILTERKIT(OPTION)

UM-FL1EF : for 50, 71
UM-FL2EF : for 100, 125
UM-FL3EF : for 140



external static pressure loss:5Pa

REMOTE CONTROL

Wireless (option)



RCN-KIT4-E2

Wired (option)



RC-EX3A



RC-E5



RCH-E3

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			1Phase 220-240V, 50Hz			3 Phase 380-415, 50Hz		
Norminal 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
EER			3.10	3.10	3.47	3.35	2.91	3.09
Inrush current		A	32	42	60.5	15.5	44.7	51.2
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	38/33/31/29	42/36/32/29	42/36/32/29	44/37/33/29	44/37/33/29
	Outdoor	dB(A)	51	56	55	57	58	59
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m3/min	13/10/9/8	24/19/15/10	39/32/26/20	39/32/26/20	48/35/28/22	48/35/28/22
	Outdoor	m3/min	38	37	75	75	75	132
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	280 x 750 x 635			280 x 1,370 x 740		
	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290			845 x 970 x 370		
Net weight	Indoor	kg	29	34	53	53	53	53
	Outdoor	kg	42	46	77.5	79	85	108
Refrigerant type	Type		R410A					
	Charge amount	kg(m)	1.00(15m)	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		℃	21-43					

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-E5



RCH-E3

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 380-415, 50Hz		
Nominal 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
EER			3.75	3.72	3.61	3.61	3.00	3.22
Inrush current		A	32	41.5	59.8	16.1	44.0	48.9
Max. current		A	8.2	10.7	17.5	6.0	9.7	11.0
Sound pressure level	Indoor (P-Hi/Hi/Me/La)	dB(A)	43/39/34	48/42/35	47/41/34	47/41/34	47/41/34	48/43/35
	Outdoor	dB(A)	51	55	55	57	58	59
Airflow	Indoor (P-Hi/Hi/Me/La)	m3/min	20/16.5/13	23/18/13	35/26/17	35/26/17	35/29/18	35/29/18
	Outdoor	m3/min	38	60	75	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	42
	Outdoor	kg	45	58	77.5	79	85	108
Refrigerant type	Type		R410A					
	Charge amount	kg(m)	1.40(15m)	1.50(15m)	2.40(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		℃	21-43					

FDF

NON-INVERTER FLOOR STANDING



FDC71CNV-S



FDC125CSV-S



FDC140CSV-S



FDF71CNV-S
FDF125/140CSV-S

**REMOTE
CONTROL**

Wireless (standard)



SPECIFICATIONS

STANDARD

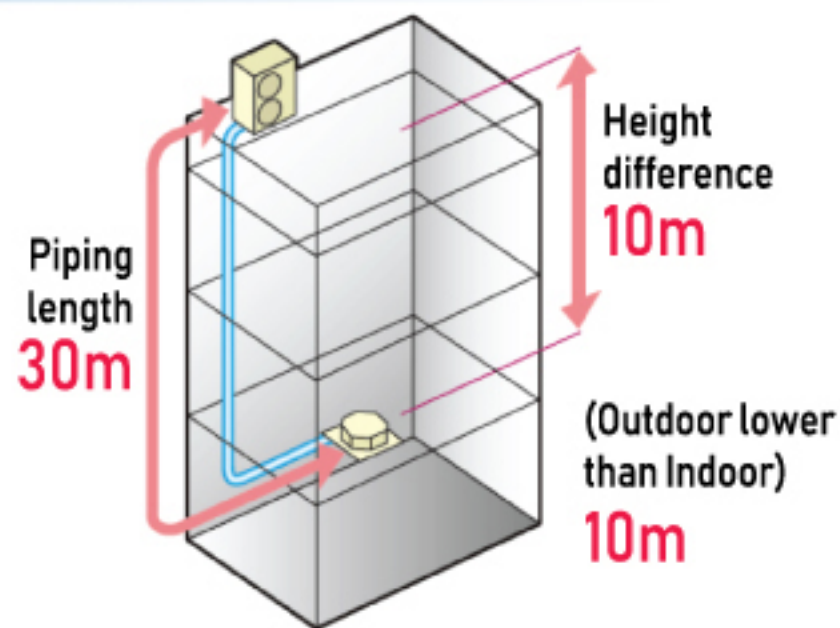
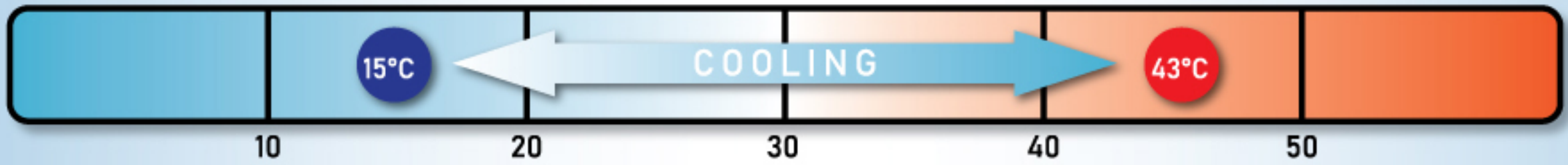
Indoor unit			FDF71CNV-S	FDF125CSV-S	FDF140CSV-S
Outdoor Unit			FDC71CNV-S	FDC125CSV-S	FDC140CSV-S
Power source			1 Phase 220-240V, 50Hz	3 Phase 380-415V, 50Hz	
Normal cooling capacity (Min-Max)		kW	7.1	12.5	14
Power consumption		kW	2.5	4.46	4.7
EER			2.84	2.8	2.98
Inrush current		A	44.5	44.6	53
Max.current		A	13	10.5	11.4
Sound pressure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A)	48/40*	51/41/37	54/41/37
	Outdoor	dB(A)	56	58	59
Airflow	Indoor (P-Hi/Hi/Me/Lo)	m3/min	21/15**	25/17/15	28/17/15
	Outdoor	m3/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	Type		R410A		
	Charge amount	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 (Me/Lo)

**Airflow (Me/Lo)

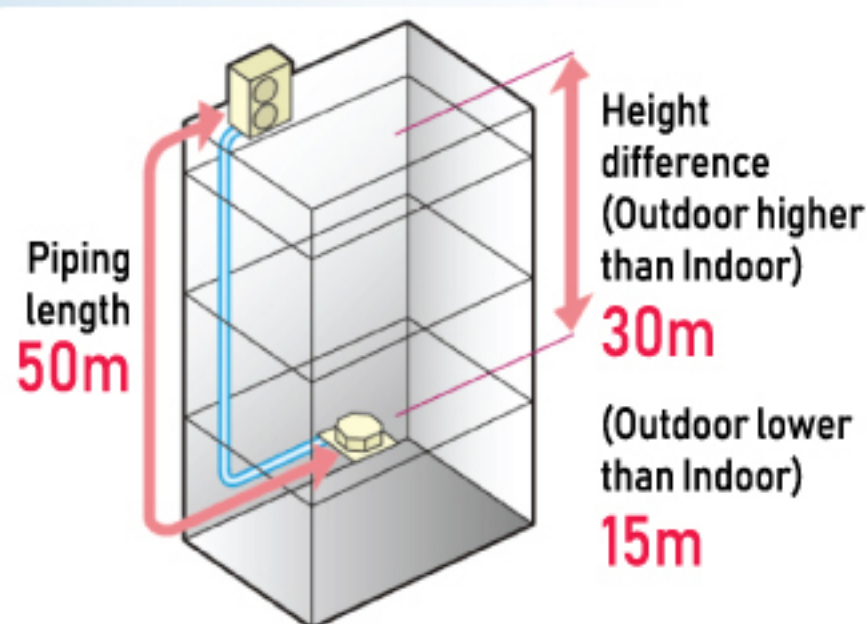
Usage Limitation

Outdoor Temperature



FDC50, 71CNV-S
FDC50, 71CNVX-S

Pre-Charge piping length:
15m



FDC100CNV-S
FDC100, 125, 140CSV-S

Pre-Charge piping length:
30m



BENEFITS SUMMARY

Indoor units

When using RC-EX3A (Remote control), functions with symbol  are available. However, for RC-E5 (Remote control), functions with ✖ are not available.

						
Economy	Set Temperature Auto Return ✖ 	This function allows you to program a preferred set temperature that the unit will return to each time it is operated.				
	Automatic Operation 	This function automatically selects the required cooling function based on the current room conditions.				
Comfort	Motion sensor ✖ 	This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	 Option			
Air flow	Flap Control System 	This function allows you 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 your 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			
	Automatic Fan Speed 	The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.				
Timer	Sleep Timer 	This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate for before switching off.				
	Weekly Timer 	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.				
Convenient	Function Switch ✖ 	From the seven available functions on the unit, this function allows you to set two functions to operate automatically.				
	Favorite setting ✖ 	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite 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 with a clean air function.		 Option		
	Filter Sign 	This warning alerts you to 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 your authorised dealer 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.				

FDU

BIG CAPACITY DUCT CONNECTED



FDU200/250CSY-S



FDU400/500CSY-S



FDC200/250CSY-S

REMOTE CONTROL

Wired (standard)

Wireless (option)



RC-E5

RCN-Q1

SPECIFICATIONS

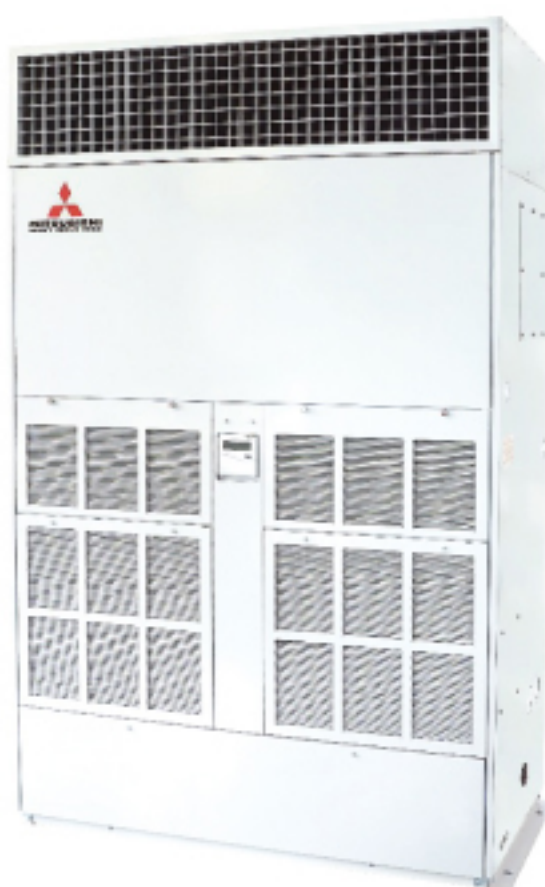
Indoor unit			FDU200CSY-S	FDU250CSY-S	FDU400CSY-S	FDU500CSY-S
Outdoor Unit			FDC200CSY-S	FDC250CSY-S	FDC200CSY-S x2	FDC250CSY-S x2
Capacity		kW	22.5	25.0	42.0	50.0
Power consumption		kW	7.30	9.00	14.60	18.00
EER		W/W	3.08	2.78	2.87	2.78
Inrush current/Max.current		A	19	20	38	40
Indoor unit	Power supply		1 Phase/220-240V/50Hz			
	Airflow rate(Phi/Hi/Me/Lo)	m3/min	76	76	120	120
	Sound pressure level (Phi/Hi/Me/Lo)	dB(A)	54/51/48		58/52	
	Exterior dimensions (HxWxD)	mm	360x1570x830		685x1570x830	
	Net weight	kg	99	99	180	180
Outdoor Unit	Power supply		3 Phase/380-415V/50Hz			
	Airflow rate(Phi/Hi/Me/Lo)	m3/min	200	200	200x2	200x2
	Sound pressure level (Phi/Hi/Me/Lo)	dB(A)	60		60x2	
	Exterior dimensions (HxWxD)	mm	1675x1080x480		(1675x1080x480)x2	
	Net weight	kg	181	182	181x2	182x2
Refrigerant type	Type		R410A			
	Charge amount	kg(m)	6.5	7.4	6.5x2	7.4x2
Piping size (Liquid/Gas)		mm	Ø12.7/22.22			
Refrigerant line (one way) length		m	50			
Vertical height differences (Outdoor is higher/lower)		m	30			
Outdoor operation temperature range		°C	10-43			

FDF

BIG CAPACITY FLOOR STANDING



FDF250CSY-S



FDF500CSY-S +
AS-DA500CSY



R410A

FDAS500CSY-S

REMOTE CONTROL

Wired (standard)

Wireless (option)



RC-E5

RCN-Q1

SPECIFICATIONS

Indoor unit			FDF250CSY-S	FDF500CSY-S + AS-DA500CSY	FDAS500CSY-S
Outdoor Unit			FDC250CSY-S	FDC250CSY-S x2	
Capacity		kW	25	50	50
Power consumption		kW	9.00	18.00	19.00
EER		W/W	2.78	2.78	2.63
Inrush current/Max.current		A	20	41	43
Indoor unit	Power supply		1Phase/220-240V/50Hz	3 Phase/380-415V/50Hz	
	Airflow rate(Phi/Hi/Me/Lo)	m3/min	60	160	
	Sound pressure level (Phi/Hi/Me/Lo)	dB(A)	54/49/44	68	64
	Exterior dimensions (HxWxD)	mm	1850x1200x320	2020x1500x800	
	Net weight	kg	100	362	
Outdoor Unit	Power supply		3 Phase/380-415V/50Hz		
	Airflow rate(Phi/Hi/Me/Lo)		200	200x2	
	Sound pressure level (Phi/Hi/Me/Lo)	dB(A)	60	60x2	
	Exterior dimensions (HxWxD)	mm	1675x1080x480	(1675x1080x480)x2	
	Net weight	kg	182	182x2	
Refrigerant type	Type		R410A		
	Charge amount	kg(m)	7.4	7.4x2	
Piping size (Liquid/Gas)		mm	Ø12.7/22.22		
Refrigerant line (one way) length		m	50		
Vertical height differences (Outdoor is higher/lower)		m	30		
Outdoor operation temperature range		℃	10-43		

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.

Use in places with high ceilings

If the ceiling is high, install a circulator to improve the heat and air flow distribution when heating.

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 snowy areas

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

• Snow prevention

Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter and 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 this 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.

Safety Precautions

Air-conditioner usage target

The air-conditioner described in this catalog 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.

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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Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001



Certificate Number : JQA-008



Certificate No. 190 838013



Certificate Number : 635-2003-AD-R02-R04

Certified ISO 14001



Certificate Number : 1944105606



Certificate No. 104 960613



Certificate number : 0117E00680RM



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

PAC-22A SIA