2019-2020





Non-Inverter Packaged Air-Conditioners



High Performance Air-Conditioning FD series

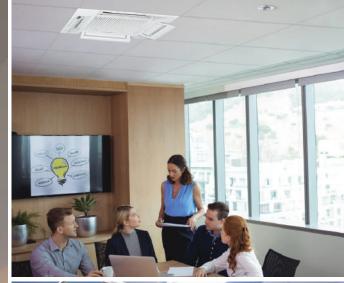
The PAC range from Mitsubishi Heavy Industries

Thermal systems is ideal for air conditioning offices, shops, resfaurants, and bars ... as well as other commercial environments. The versafility of the PAC range. offers you a wide selection of models in function of your installation needs.

The modern and affractive design of our indoor units is harmoniously infegrafed in the any afmosphere creating a pleasant and relaxing environment.

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New Generation FDT

Automatic energy saving control

Keep maximum comfort with minimal draft

Quiet operation



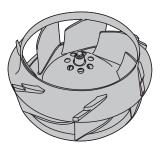
New FDT can achieve higher Coefficient of Performance (COP) by Mitsubishi Heavy Industries latest technology.



More quiet noise & improve the aerodynamic performance of the unit

New technology has realised quiet noise with keeping capacity and comfort. Our new design turbo fan can achieve low noise by reducing the pressure fluctuation in the indoor unit. A fan guard attains both safety and quietness by flow.

New design turbo fan



Fan guard (standard equipment)



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.



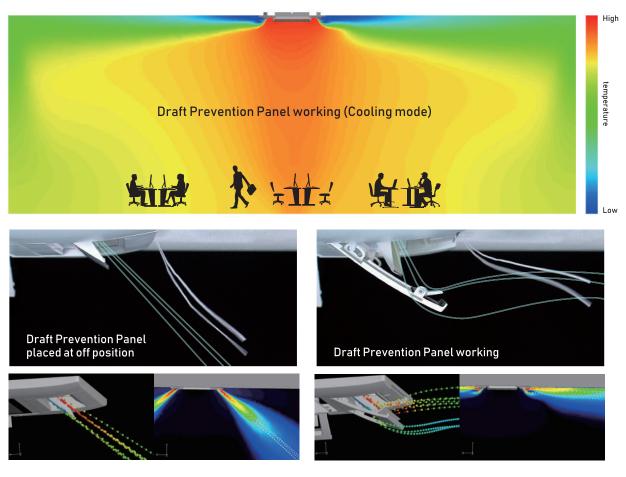
Motion Sensor (Option)

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

Draft Prevention Panel



New Generation!



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

Motion sensor

Energy saving control by detecting human moving

3 Step Control

User

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

Stand by

Unit will go on stand-by mode when no activity is detected.

When unit will detect activity again, unit will re-start

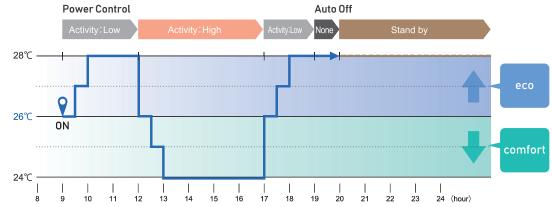
operation automatically.

Auto Off

Unit will go off automatically when no activity is detected for 12 hours.















			co operation		Operation mode	
ControtorMo	tion sens	oui c	omfort operation	Cool	Dry	Fan
Power		Human	Low	+2℃	_	
Control	※1	activity	High	-2 ℃	_	_
Auto Off	 2			•	•	•

- ※1 Set temperature is revised maximum 2°C at Cooling mode by detecting heat volume movement.
 ※2 Absence for 1 hour ⇒ Operation stops ("Stand-by") More 12 hours absence ⇒ Operation stops completely

Remote Control

Added new function

Simple use with advanced settings REMOTE CONTROL



Function Switch

The function switch allows you to select and set two functions that you desire among 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. High Power Mode



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

4. Home Leave Mode is a series of the series





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

Favourite Mode

2. Energy Saving Mode 📥

Temperature is set to optimized to save energy without losing comfort,

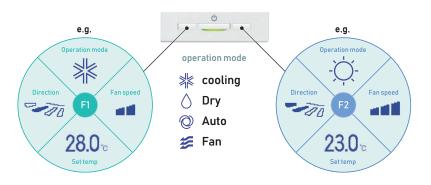
5. Favourite Mode



Operation mode, set temperature, fan speed and air flow direction are automatically adjusted to the programmed favorite setting.

buttons that can be operated by one touch.

Operation mode, set temperature, fan speed and air flow direction are memorized and allocated to two



Easy touch and Easy view with



3. 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.

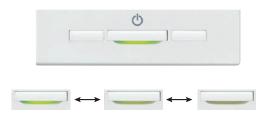
6. Filter Sign



Announces the due time for cleaning the air filter.

Adjustable Brightness of the Operation Lamp

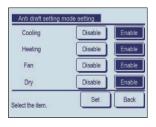
The brightness of the operation lamp behind Run/Stop switch can be adjusted by 10 stages.

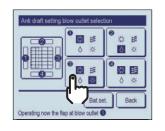


Draft Prevention Setting

(only FDT series)

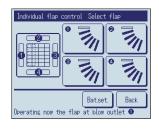
User can enable/disable the motion of panel with anti draft for each blow outlet for each operation mode. This function can be set while operating.





Easy Modification of Air Flow

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





Motion Sensor Control Presence of humans and the amount of motion are detected by a motion sensor to perform various controls.

 Select Enable / Disable Motion sensor control



Enable/Disable



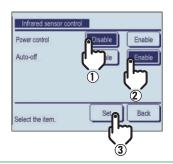
Select Enable / Disable for the motion sensor of the indoor unit connected to the R/C.

2 Select Enable / Disable per control

- Power control
- Auto-off



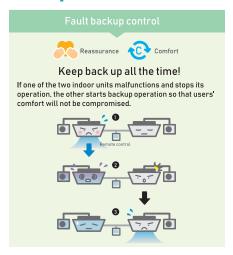
Enable/Disable

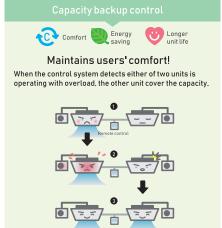


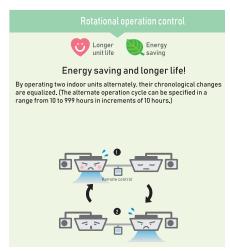
Backup Control

Control restricted to two indoor units (two groups)



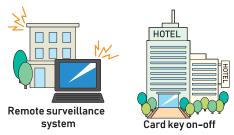






Additional Functions of External Input / Output

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

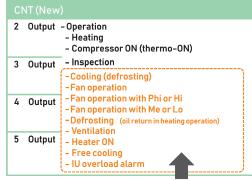


External Input

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

Newly added

External Output



(For only FDT with RC-EX3A)

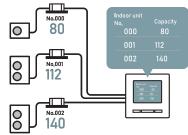
Newly added

Indoor Unit Capacity Display

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







Contact company & Error display

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



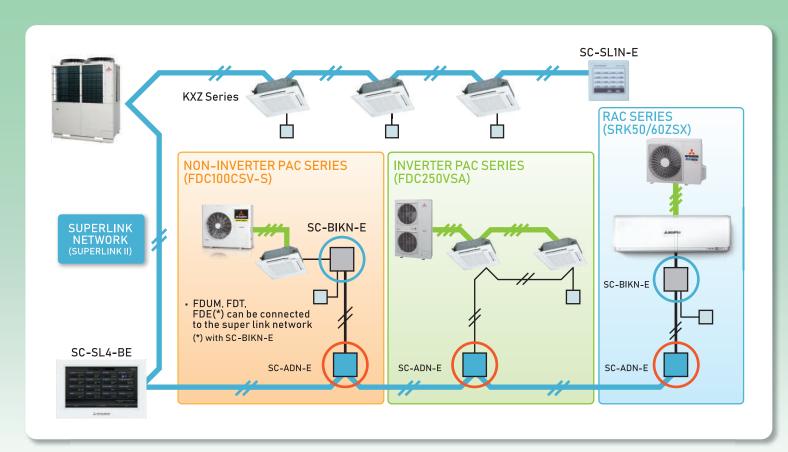








SUPERLINK SYSTEM



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 effect centralized control.



SC-SL2NA-E

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



SC-SL4-AE/BE

Easy operation realized with a large color 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.

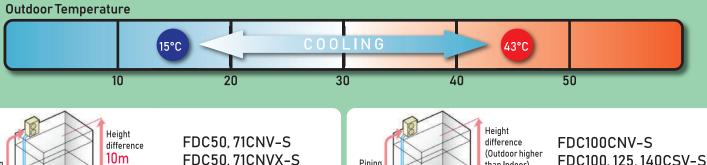
★ Additional engineering service is required. Please consult your dealer when using these system.

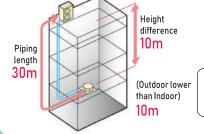
Non - Inverter PAC

	HI-COP									
TYPE	НР	2	3	4	5	6				
	kW	5.0	7.1	10.0	12.5	14.0				
	Indoor	FDT50CNVX-S	FDT71CNVX-S	-	-	-				
CEILING CASSETTE	Outdoor	FDC50CNVX-S	FDC71CNVX-S	-	-	-				
	Indoor	-	-	-	-	-				
DUCT	Outdoor	-	-	-	-	-				
MINIMALANAMARKA	Indoor	FDE50CNVX-S	FDE71CNVX-S	-	-	-				
CEILING SUSPENDED	Outdoor	FDC50CNVX-S	FDC71CNVX-S	-	-	-				
8	Indoor	-	-	-	-	-				
FLOOR STANDING	Outdoor	-	-	-	-	-				
OUTDOOR UNIT										

				<u> </u>							
	STANDARD										
TYPE	HP	2	3	4	5	6					
	kW	5.0	7.1	10.0	12.5	14.0					
TO ON	Indoor	FDT50CNV-S	FDT71CNV-S	FDT100CNV-S (1 Phase)	FDT125CSV-S	FDT140CSV-S					
		151000117 5	151716117 5	FDT100CSV-S (3 Phase)	15112000 0	151140031 5					
CEILING	Outdoor	FDC50CNV-S	FDC71CNV-S	FDC100CNV-S (1 Phase)	FDC125CSV-S	FDC140CSV-S					
CASSETTE				FDC100CSV-S (3 Phase)							
	Indoor	FDUM50CNV-S	FDUM71CNV-S	FDUM100CNV-S (1 Phase)	FDUM125CSV-S	FDUM140CSV-S					
		T DOMISSORY S		FDUM100CSV-S (3 Phase)	T DOMINE COST O						
DUCT	Outdoor	FDC50CNV-S	FDC71CNV-S	FDC100CNV-S (1 Phase)	FDC125CSV-S						
CONNENCTED	Outdoor	FDC50CNV-S	FDC/ICNV-5	FDC100CSV-S (3 Phase)	FDC125C5V-5	FDC140C3V=3					
	Indoor	_	_	FDE100CNV-S (1 Phase)	FDE125CSV-S	FDE140CSV-S					
MINIMALIANAMANA			_	FDE100CSV-S (3 Phase)	FDEIZ3C3V=3	FDE140C3V=3					
	Outdoor	_	_	FDC100CNV-S (1 Phase)	FDC125CSV-S	FDC140CSV-S					
CEILING SUSPENDED	Juluooi	_	_	FDC100CSV-S (3 Phase)	1 00123034=3	1 50140034=3					
FLOOR	Indoor	-	FDF71CNV-S	-	FDF125CSV-S	FDF140CSV-S					
STANDING	Outdoor	-	FDC71CNV-S	-	FDC125CSV-S	FDC140CSV-S					
OUTDOOR UNIT						0					

Usage Limitation



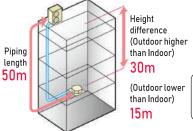


FDC50, 71CNVX-S

Pre-Charge piping length:

15m

When using RC-EX3A (Remote control), functions with symbol _ are available.



FDC100, 125, 140CSV-S

Pre-Charge piping length:

30m

BENEFITS SUMMARY

Indoor units

Ho	wever, for RC-E5 (Remote control), fo	unctions with %are not available.				
Есопоту	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.		0	0	
Comfort	Automatic Operation	This function automatically selects the required cooling function based on the current room conditions.				•
Сош	Motion sensor*	This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	Option			
	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.				
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.				0
Air	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.			0	
ij	Weekly Timer 💍	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.		0	0	
	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.		0	•	
Convenient	Select the language*	Set the language to be displayed on the remote control,				
Conve	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	0	•
	Filter Sign ①	This warning alerts you to when the filter needs to be cleaned.			0	•
	Outside Air Intake	This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.				
	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.			0	•
Others	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.		0		



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.



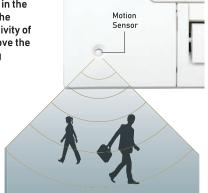
User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, RCN-T-5AW-E2).

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.

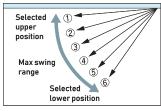






Individual Flap Control System

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.

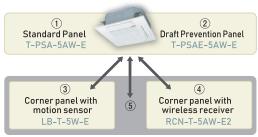
• The wireless remote control is not applicable to the Individual flap control system.

For person who is far from the indoor unit

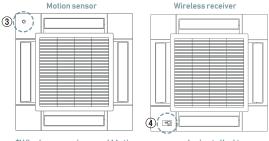




Panel Select Pattern (Option)



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.

Standard Panel only

 Standard Panel with corner panel with motion sensor

 Standard Panel with corner panel with wireless receiver

Standard Panel with corner panel with motion sensor & corner panel with wireless receiver

1+3

2 Draft Prevention Panel only

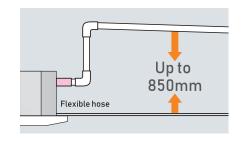
②+③ Draft Prevention Panel with corner panel with motion sensor

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

850 mm Drain Pump

Drain can be discharged upwards by 850mm from the ceiling surface. It allows a piping layout with a high degree of freedom. Depending on the installation location and 185mm flexible hose as a standard equipment supports easy workability.

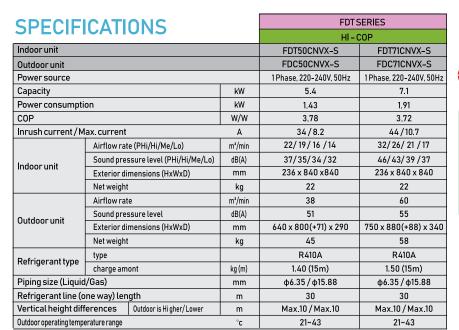




FDT50/71CNVX-S FDT50/71/100CNV-S FDT100/125/140CSV-S









Draft Prevention Panel (Option)

REMOTE CONTROL Wireless (option) Wired (option) RCN-T-5AW-E2 RC-EX3A RC-E5 RCH-E3









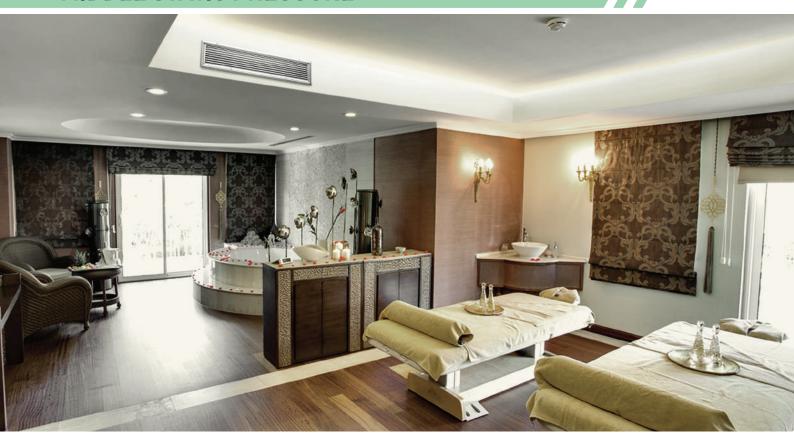
FDC50/71CNV-S FDC50CNVX-S

FDC100CNV-S FDC71CNVX-S FDC100/125CSV-S

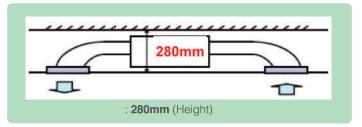
FDC140CSV-S

SPECIFICATIONS		FDT SERIES										
SF LCII	ICATIONS		STANDARD									
Indoor unit			FDT50CNV-S	FDT50CNV-S FDT71CNV-S FDT100CNV-S FDT100CSV-S FDT1		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	1 Phase, 220-240V, 50Hz	1 Phase, 220-240V, 50Hz	3 Phase, 380-415V, 50Hz	3 Phase, 380-415V, 50Hz	3 Phase, 380-415V, 50Hz				
Capacity		kW	5.0	7.3	10.5	10.4	13.0	14.5				
Power consump	tion	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				
Inrush current /	Max. current	Α	34/8.2	44/13	58.7 / 17.3	16.4 / 5.8	49.7 / 9.6	53.1/11.0				
	Airflow rate (PHi/Hi/Me/Lo)	m³/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				
Indoor unit	Sound pressure level (PHi/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				
Indoor unit	Exterior dimensions (HxWxD)	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				
	Net weight	kg	20	22	25	25	25	25				
	Airflow rate	m³/min	38	37	75	75	75	132				
Outdoor unit	Sound pressure level	dB(A)	51	56	55	57	58	59				
Outdoor unit	Exterior dimensions (HxWxD)	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	kg	42	46	77.5	79	85	108				
Refrigerant type	type		R410A	R410A	R410A	R410A	R410A	R410A				
Reirigeranictype	charge amont	kg (m)	1.00 (10m)	1.40 (15m)	2.40 (30m)	2.65 (30m)	2.15 (30m)	3.10 (30m)				
Piping size (Liqu	id/Gas)	mm	ф6.35/ф15.88	ф6.35/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88				
Refrigerant line	(one way) length	m	30	30	50	50	50	50				
Vertical height differen	ences 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 operati	ng temperature range	°c	21~43	21~43	21~43	21~43	21~43	21~43				

DUCT CONNECTED FDUM -MIDDLE STATIC PRESSURE-



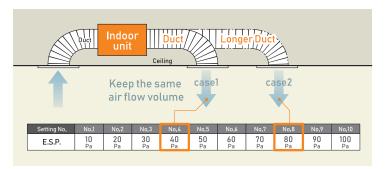
- Indoor height is thin easy to install at narrow ceiling



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

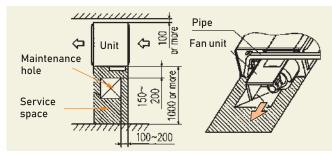
Duct design was simplified. Using DC motor, the most optimum air flow volume can be achieved by this automatic control. Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.





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.



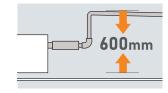
Transparent Inspection Window

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



Enhanced Installation Workability

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.





FDC50/71CNV-S



FDC100CNV-S FDC100/125CSV-S



FDC140CSV-S



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

FILTER KIT (OPTION)

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



external static pressure loss:5Pa



SPECIFICATIONS			FDUMSERIES								
of Lon I	CAHONS		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	1 Phase, 220-240V, 50Hz	1 Phase, 220-240V, 50Hz	3 Phase, 380-415V, 50Hz	3 Phase, 380-415V, 50Hz	3 Phase, 380-415V, 50Hz			
Capacity		kW	5.0	7.1	10.5	10.4	13.0	14.5			
Power consumption	n	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			
Inrush current / Ma	x. current	Α	32.0 / 8.2	42.0 / 13.0	60.5 / 18.3	15.5 / 6.2	44.7 / 10.2	51.2 / 11.4			
	Airflow rate (PHi/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			
Indoor unit	Sound pressure level (PHi/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			
indoor unit	Exterior dimensions (HxWxD)	mm	280 x 750 x635	280 x 950 x635	280 x 1370 x 740						
	Net weight	kg	29	34	53	53	53	53			
	Airflow rate	m³/min	38	37	75	75	75	132			
Outdoor unit	Sound pressure level	dB(A)	51	56	55	57	58	59			
Outdoor unit	Exterior dimensions (HxWxD)	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	kg	42	46	77.5	79	85	108			
Refrigerant type	type		R410A	R410A	R410A	R410A	R410A	R410A			
Ren igerant type	charge amont	kg (m)	1.00 (15m)	1.40 (15m)	2.40 (30m)	2.65 (30m)	2.15 (30m)	3.10 (30m)			
Piping size (Liquid/	Gas)	mm	ф6.35/ф15.88	ф6.35/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88			
Refrigerant line (on	e way) length	m	30	30	50	50	50	50			
Vertical height diffe	rences 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 operating temper	ature range	°c	21~43	21~43	21~43	21~43	21~43	21~43			

CEILING SUSPENDED



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 can only be serviced from the bottom.

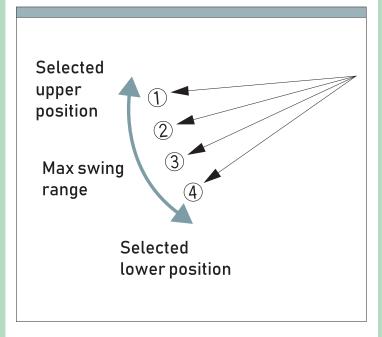


COMPACT AND MODERN DESIGN

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.

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







FDC71CNVX-S





FDC100CNV-S FDC100/125CSV-S



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



FDC140CSV-S



SPECIF	ICATIONS		FDE SERIES								
or Lon	ICATIONS		HI-0	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	1 Phase, 220-240V, 50Hz	1 Phase, 220-240V, 50Hz	3 Phase, 380-415V, 50Hz	3 Phase, 380-415V, 50Hz	3 Phase, 380-415V, 50Hz			
Capacity		kW	5.4	7.1	10.5	10.4	12.5	14.5			
Power consumpti	ion	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			
Inrush current/M	lax. current	Α	32.0 / 8.2	41.5 / 10.7	59.8 / 17.5	16.1 / 6.0	44.0 / 9.7	48.9 / 11.0			
	Airflow rate (Hi/Me/Lo)	m³/min	20 / 16.5 / 13	23 / 18 / 13	35 / 26 / 17	35 / 26 / 17	35 / 29 / 18	35 / 29 / 18			
landa a a a a a a	Sound pressure level(Hi/Me/Lo)	dB(A)	43/39/34	48/42/35	47/41/34	47/41/34	47 / 43 / 34	48/43/35			
Indoor unit	Exterior dimensions (HxWxD)	mm	210 x 1320 x 690	210 x 1320 x 690	250 x 1620 x 690						
	Net weight	kg	32	32	42	42	42	42			
	Airflow rate	m³/min	38	60	75	75	75	132			
Outdoor unit	Sound pressure level	dB(A)	51	55	55	57	58	59			
Outdoor unit	Exterior dimensions (HxWxD)	mm	640 x 800(+71) x 290	750 x 880 (+88) x340	845 x 970 x 370	845 x 970 x 370	845 x 970 x 370	1300 x 970 x 370			
	Net weight	kg	45	58	77.5	79	85	108			
Refrigerant type	type		R410A	R410A	R410A	R410A	R410A	R410A			
Reirigeranittype	charge amont	kg (m)	1.40 (15m)	1.50 (15m)	2.40 (30m)	2.65 (30m)	2.15 (30m)	3.10 (30m)			
Piping size (Liquid/Gas) m		mm	ф6.35/ф15.88	ф6.35/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88			
Refrigerant line (d	one way) length	m	30	30	50	50	50	50			
Vertical height dif	ferences Outdoorishigher/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 operating temp	erature range	°c	21~43	21~43	21~43	21~43	21~43	21~43			



POINT1

AUTO HORIZONTAL SWING

Auto horizontal swing enables wide and powerful air flow, increase your comfort, realizing high effciency in combination with our highly advanced outdoor units.



POINT2

EASYTRANSPORTATION AND INSTALLATION WORKABILITY

Piping and drain hose connection can be selected out of 4 directions and the selection makes installation workability more effective. Due to slim design (Depth:320mm), easy transportation and installation are realized.

Easy Maintenance

The surface of heat exchanger can be appeared only removing the front panel. Easy cleaning of heat exchanger is possible.





FDC71CNV-S



FDC125CSV-S



FDC140CSV-S





FDF71CNV-S FDF125,140CSV-S

SPECIFICATIONS			FDF SERIES FDF SERIES					
SI ECII ICATIONS				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	3 Phase, 380-415V, 50Hz			
Capacity		kW	7.1	12.5	14.0			
Power consumption		kW	2.50	4.46	4.70			
COP		W/W	2.84	2.80	2.98			
Inrush current / Max. current		Α	44.5 / 13.0	44.6 / 10.5	53.0 / 11.4			
	Airflow rate (Hi/Me/Lo)	m³/min	21/15 *	25 / 17 / 15	28 / 17 / 15			
In de en cuit	Sound pressure level(Hi/Me/Lo)	dB(A)	48 / 40 **	51/41/37	54/41/37			
Indoor unit	Exterior dimensions (HxWxD)	mm	1850 x 600 x 320	1850 x 600 x 320	1850 x 600 x 320			
	Net weight	kg	51	53	53			
	Airflow rate	m³/min	37	75	132			
Outdoor unit	Sound pressure level	dB(A)	56	58	59			
Outdoor unit	Exterior dimensions (HxWxD)	mm	640 x 800(+71) x 290	845 x 970 x 370	1300 x 970 x 370			
	Net weight	kg	46	85	108			
Refrigerant type	type		R410A	R410A	R410A			
Reirigerant type	charge amont	kg (m)	1.40 (15m)	2.15 (30m)	3.10 (30m)			
Piping size (Liquid/Gas)			ф6.35/ф15.88	ф9.52/ф15.88	ф9.52/ф15.88			
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	Max.30 / Max.15			
Outdoor operating temperature range		°c	21~43	21~43	21~43			

^{*}Airflow rate (Me/Lo)
**Sound pressure level (Me/Lo)

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

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

Use in oil atmosphere

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

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 e atmosphere including ammonia or calcium chloride, places where the exhaust of the heat nger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or places differing from a general at

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

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.

The "Automatic defrosting device" will function to remove this frost

- Snow piling

Automatic defrosting device

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

After heating for approx, three to ten minutes, it will stop, and the frost will be removed. After

(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.

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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ISO9001









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