



ANNAL ANNA



MITSUBISHI HEAVY INDUSTRIES GROUP

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 pleasan and relaxing environment.









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Big capacity Series

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Next Generation Refrigerant R3

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





New Generation

Automatic energy saving control Keep maximum comfort with minimal draft Quiet operation



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.



Fan guard

(standard equipment)



Turbo fan

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.



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





CONTRACTOR OF CONT

FDE

Low human activity (in cooling)







Absence for 1 hour



12 hours absence

			Power C	Control										A	uto Off				
in cooling			Activ	ity:Low			Act	ivity:H	ligh		Ac	tivity:Low	None		1	Stand b	y / Auto	off	
in cooking	29°c -				_												33°c — —		
Set temperature	26°c	•													Nev	v		есо	
26		0	I												Functi	on	cor	nfort	
∠0 •c	23°c – (hour) 8	 9	 10	l 11	 12	l 13	8	 14	 15	 16	 17	 18	l 19	1 20	 21	 22	 23	 24	

Operation mode and	eco	operation	Operation mode								
Control of Motion se	nsor comf	ort operation		Cool	Dry	Fan					
Power Control *1	Human	Low	Cooling +3°c	+3∘c							
	activity	High	Cooling -3°c	-3 ℃							
		None	Cooling +3°c	+3∘ _c							
Auto Off *2			\bigcirc	•	•						

*1 Set temperature is revised maximum $\pm 3^{\circ}$ 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



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.



2. Hig

RC-EX3A

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

5. Home Leave Mode 👘 🔞

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



High Power Mode achieve excessive coolingcapacity in 15 minutes to quickly adjust the room temperature to a comfortable level.



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



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

7. Filter Sign

Announces the due time for cleaning the air filter.



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

4. Quiet Mode

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. Select Enable / Disable 2 Select Enable / Disable per control







Power control

Enable/Disable



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



Longer unit life

Fault backup control

Reassurance Comfort

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



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.



External Output

2 Output - Operation

3 Output

-Heating

-Inspection

Rotational operation control



Energy saving

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.

HOTEL



system

Language Switching

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





Chinese

Portuguese

External Input

Input

On/Off

Permission/Prohibition

Cooling/Heating

Emergency Stop

Forced thermo-off

Newly added

IU operation stop

Set temp. shift

Silent mode

4 Output

Cooling (defrosting) Fan operation Fan operation with Phi or Hi Fan operation with Me or Lo Defrosting (oil return in heating operation) Ventilation 5 Output -Heater ON Free cooling -IU overload alarm

-Compressor ON (thermo-ON)

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.



Indoor Unit Capacity Display Capacities of Indoor units connected to ЛП the RC-EX3A are displayed. No.000 80 \bigcirc No.001 \bigcirc Back 112 \bigcirc

 \bigcirc

Ó

Error display

If any error occurs on the air is indicated on the message display.

Japanese







Turkish

conditioner, the "Unit protection stop"





Contact company	
Company MHI	
Phone No. 000-000-0000	
	Back

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.

Building Management Systems



SC-SL2NA-E

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

	HEL COMP	15/0 15/12/2014 (864) 1
IF OFFICE IF MEETING	IF SHOP A IF SHOP B	IF COMION
3F 0FF10E 3F MEETING	3F WARE HOUSE 2F COMION	OF OFFICE
		=== (====
OF MEETING OF LIBRARY	F COMON 4F CAFETER	IA 4F CONNON
SF OFFICE SF NIP	SF COMION RF COMION	B1 COMION
	1	NN ALL 5737 ALL

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-I systems are connected.

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.



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

C	apacity (kW)		4	5	6	7.1	9	10	12.5	14	20	25	40	50
Celing Cassette	FDT	Inverter	•	•	•	•		•	•	•				
		Non-Inverter		•		•		•	•	•				
	FDUM	Inverter	•	•	•	•								
Duct Connected		Non-Inverter		•		•		•	•	•				
	FUU	Inverter						•	•	•				
Ceiling Suspended	FDE	Inverter	•	•	•	•		•	•	•				
Centing Suspended	and the second se	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										•		•
0	laar Unit	Inverter				YNA	Series				0-1			
Uuta	iour unit	Non-Inverter	4	HI-O	COP		0	Standard				Big ca	pacity Net	

Indoor units BENEFITS SUMMARY FDU <t

					INVERTE	R		NON-INVERTER				
			-							-	-	
		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.	•	•	•		•					
inergy-	ECO	Energy-Saving Operation * Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.	•	•	•	•	•					
Saving		Motion Sensor * This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	Option	Option	Option	O ption	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.	•	•	•	•	•		•	•		
omfort	000	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.	•	•	•		•					
		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.	•							•		
ir 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				
	B	Automatic Fan Speed The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	•	•	•	•	•	•	•	•		

FDF

Indoor Unit

			FDT	FDU	FDUM	FDE	SRK	FDT	FDUM	FDE	FDF
					NVERTE	R			NON-IN	VERTER	
	Ö	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.	•	•	•	•	•	•	•	•	
Timer	Ċ	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.	•	•	•	•	•				
	Ö	Weekly Timer Set the unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	•	•	•	•	•	•	•	•	
		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.	•	•	•	•	•	•	•		
Convenience		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.	•	•	•			•	•		
	-1	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.	•	•	•	•	•	•	•	•	•
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.		•	•				•		

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



CEILING CASSETTE

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.

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.

Panel Select Pattern(Option)

4

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

flap control system.

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
	Draft Prevention Panel with

(2)+(5) corner panel with motion sensor & corner panel with wireless receiver

For both per feeling vho is fa door unit Can cool

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, equipr supports easy workability.

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

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

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)

FDTINVERTER CEILING CASSETTE

FDC100YNA-W

Remote control (option)

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

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							
Norminal cooling capacity	r (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)	
Power consumption		kW	0.99	1.38	1.72	2.00	2.80	3.87	4.40	
COP		W/W	4.34	3.84	3.55	3.55	3.75	3.23	3.18	
Max.current		A	13	13	13	13.8	17	18.0	24	
Sound procesure lovel	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	
Sound pressure tevel	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	
Airtow	Outdoor	m³/min	30	32.5	34.5	30	58.4	79	75	
Extorior dimonsions	Indoor (HeightxWidthxDepth)	mm		236 x 8	40 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	
N	Indoor	kg	24	24	24	26	30	30	30	
Net weight	Outdoor	kg		32		37	51	67.5	68	
B (1)	Туре					R32				
Refrigerant	Charge amount (Pre-charge pipe length)	kg(m)		0.83(15m)		1.05(10m)	1.55(15m)	1.70(30m)	
Piping size (Liquid/Gas)		Ømm		Ø6.35	/Ø12.7		Ø6.35/Ø15.88	Ø9.52/Ø	015.88	
Refrigerant line (one way) length	m		25		30	50	50	50	
Vertical height difference	s (Outdoor is higher/lower)	m	MAX.15/MAX.15 MA				20/MAX.20 MAX.20/MAX.20 MAX.50/MAX.15			
Outdoor operation temper	rature range	°C			21-	-46				

DUCT CONNECTED FDUHIGH 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

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 (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

Remote control (option)

RC-EXZ3A

RCN-KIT4-E2

EDC100YNA-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					
Norminal 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)
Power consumption		kW	1.13	1.59	1.77	2.20	3.10	3.82	4.50
COP		W/W	3.81	3.33	3.45	3.23	3.39	3.14	3.11
Max.current		A	13	13	13	13.8	17	20	27
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
Sound pressure level	Outdoor	dB(A)	50 5		2	54	57	61	59
A : 61	Indoor (P-Hi/Hi/Me/Lo) m³/min		13/10	13/10/9/8		24/19/15/10	36/28/25/19	39/32/26/20	48/35/28/22
AITTOW	Outdoor	m³/min	32.50		34.5	30	58.4	79	75
Avaiable external static p	ressure	Pa	STD:35/MAX:100			STD:40/MAX:200			
Exterior dimensione	Indoor (HeightxWidthxDepth)	mm	280 x 7	280 x 750X635 280 x5			x 635 280 x 1,370 x 740		
Exterior unitensions	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
	Indoor	kg	29	29	34	34	54	54	54
Net weight	Outdoor	kg		32		37	51	67.5	68
	Туре					R32			
Refrigerant	Charge amount (Pre-charge pipe length)	kg(m)		0.83(15m)		1.05(10m)	1.55(15m)	1.70(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	50	50
Vertical height difference	s (Outdoor is higher/lower)	m	MAX.15/MAX.15 MAX.2			MAX.20/I	MAX.20 MAX.20/MAX.20 MAX.50/MAX.15		
Outdoor operation temper	ature range	°C			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 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.

FDE INVERTER CEILING CASSETTE

FDC100YNA-W

FDC125YNA-W FDC140YNA-W Remote control (option)

Wireless

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						
Norminal cooling capacity	r (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)
Power consumption		kW	1.03	1.42	1.82	2.24	2.90	3.88	4.40
COP		W/W	4.17	3.73	3.35	3.17	3.62	3.17	3.18
Max.current		Α	13	13	13	13.8	17	18.0	24
Sound proceure level	Indoor (P-Hi/Hi/Me/Lo)	dB(A)	42/34/	42/34/33/28		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/		14/11/9/7	20/16/13/10	32/26/21/16.5	32/29/23/17	34/29/23/18
Aintow	Outdoor	m³/min	30	32.5	34.5	30	58.4	79	75
Exterior dimonsions	Indoor (HeightxWidthxDepth)	mm	210 x 1,070 x 690			210 x 1,320 x 690		250 x 1,620 x 690	
Exterior unifensions	Outdoor (HeightxWidthxDepth)	mm		595 x 780 x 290		640 x 800 x 290	750x880x340	845x970x370	845x970x370
Matinkt	Indoor	kg		28		33	43	43	43
Net weight	Outdoor	kg		32		36	51	67.5	68
D () .	Туре					R32			
Refrigerant	Charge amount (Pre-charge pipe length)	kg(m)		0.83(15m)		1.05(10m)	1.55(15m)	1.70(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	50	50
Vertical height difference	s (Outdoor is higher/lower)	m		MAX.15/MAX.15		MAX.20/MAX.20 MAX.20/MAX.20 MAX.50/MAX.15			
Outdoor operation temper	ature range	°C			21-	46			

SRK______INVERTER WALL MOUNTED

SRK100YA-W

FDC100YNA-W

Indoor unit			SRK100YA-W			
Outdoor Unit			FDC100YNA-W			
Power source			1 Phase 220 - 240V, 50 Hz / 220V, 60Hz			
Norminal cooling capacity (Min-Max)		kW	10.5 (2.0 - 11.0)			
Power consumption		kW	2.9			
COP		w/w	3.45			
Inrush current		Α	13.2 / 12.6 / 11.1			
Max.current		Α	17			
Sound procesure lovel	Indoor (P-Hi/Hi/Me/Lo)	dB(A)	47/43/38/27			
	Outdoor	dB(A)	57			
Airflaur	Indoor (P-Hi/Hi/Me/Lo)	m*/min	24.5/21.3/17.6/10.4			
Airitow	Outdoor	m³/min	58.4			
F () () ()	Indoor (HeightxWidthxDepth)	mm	339 x 1197 x 262			
Exterior dimensions	Outdoor (HeightxWidthxDepth)	mm	750 × 880 (+88) × 340			
	Indoor	kg	16.5			
Net weight	Outdoor	kg	51			
	Туре		R32			
Refrigerant type	Charge amount (Pre-charge pipe length)	kg(m)	1.55(15m)			
Piping size (Liquid/Gas)		Ømm	φ6.35/φ15.88			
Refrigerant line (one way) length		m	50			
Vertical height differences (Outdoor is higher/lower)		m	MAX.20/MAX.20			
Outdoor operation temperature range		٥c	21-46			

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

Draft Prevention Panel (Option)

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

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			
Norminal cooling capacity	r (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		Α	8.2	13	17.3	5.8	9.6	11.0	
Cound processire lovel	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	
Sound pressure level	Outdoor		51	56	55	57	58	59	
Airflow	Indoor (P-Hi/Hi/Me/Lo)		22/20/17/15	32/26/21/17	31/26/23/17	31/26/23/17	31/28/25/18	31/28/26/20	
AITTOW	Outdoor	m³/min	38	37	75	75	75	132	
Eutorier dimensione	Indoor (HeightxWidthxDepth)	mm	236 x 84	40 x 840	298 x 840 x 840				
	Outdoor (HeightxWidthxDepth)	mm	640 x 800	l(+71) x 290		1300x 970 x 370			
N	Indoor	kg	25	27	30	30	30	30	
Net weight	Outdoor	kg	42	46	77.5	79	85	108	
	Туре				R4	10A			
Refrigerant	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 difference	s (Outdoor is higher/lower)	m	MAX.10,	/MAX.10		MAX.30/MAX.15			
Outdoor operation temper	ature range	°C		21-43					

FDUM_ **NON-INVERTER DUCT CONNECTED**

FDC50/71CNV-S

FDC100CNV-S

FDC140CSV-S

FILTERKIT(OPTION)

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

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

R410A

External static ptrssure loss:5Pa

SPECIFIC	ATIONS		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 380-415, 50Hz				
Norminal cooling capacit	y (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 proceuro loval	Indoor (P-Hi/Hi/Me/Lo)		35/31/29/27	38/33/31/29	42/36/32/29	42/36/32/29	44/37/33/29	44/37/33/29		
Sound pressure level	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		
Airitow	Outdoor	m³/min	38	37	75	75	75	132		
Available external static	pressure	Pa	STD:35/	'MAX:100		STD:60/	MAX:100			
Exterior dimonsions	Indoor (HeightxWidthxDepth)	mm	280 x 750 x 635	280 x 950 x 635		280 x 1,370 x 740				
	Outdoor (HeightxWidthxDepth)	mm	640 x 800)(+71) x 290	845 x 970 x 370			1300 x 970 x 370		
N	Indoor	kg	29	34	53	53	53	53		
Net weight	Outdoor	kg	42	46	77.5	79	85	108		
	Туре				R4	10A				
Refrigerant	Charge amount (Pre-charge pipe length)	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	r) length	m	30	30	50	50	50	50		
Vertical height difference	s (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

FDC100CNV-S FDC100/125CSV-S

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

245

HOOL TEMP (HI SPEED

RCH-E3

FDC140CSV-S
READCT Wireless (Standard)
Wired (option)

SPECIFICATIONS			HI-CO	P	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			
Norminal cooling capacity	y (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		Α	8.2	10.7	17.5	6.0	9.7	11.0		
Indoor (Hi/Me/Lo)		dB(A)	43/39/34	48/42/35	47/41/34	47/41/34	47/43/34	48/43/35		
Sound pressure level	Outdoor	dB(A)	51	55	55	57	58	59		
A	Indoor (Hi/Me/Lo)	m³/min	20/16.5/13	23/18/13	35/26/17	35/26/17	35/29/18	35/29/18		
AIFTLOW	Outdoor	m³/min	38	60	75	75	75	132		
Futuring disconsistent	Indoor (HeightxWidthxDepth)	mm	210 x 1,3	20 x 690	250 x 1,620 x 690					
Exterior dimensions	Outdoor (HeightxWidthxDepth)	mm	640 x 800(+71) x 290	750 x 880(+88) x 340		845 x 970 x 370 1300				
	Indoor	kg	32	32	42	42	42	42		
Net weight	Outdoor	kg	45	58	77.5	79	85	108		
	Туре			<u> </u>	R4	10A				
Refrigerant	Charge amount (Pre-charge pipe length)	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	Ø9.52/Ø15.88 Ø9.52/Ø15.88				
Refrigerant line (one way) length	m	30	30	50	50	50	50		
Vertical height difference	s (Outdoor is higher/lower)	m	MAX.10	/MAX.10		MAX.30	/MAX.15			
Outdoor operation temperature range		-0								

FDF______NON-INVERTER FLOOR STANDING

SPECIFICATIONS

SPECIFICA							
Indoor unit			FDF71CNV-S	FDF125CSV-S	FDF140CSV-S		
Outdoor Unit			FDC71CNV-S	FDC125CSV-S	FDC140CSV-S		
Power source			1 Phase 220-240V, 50Hz	hase 220-240V, 50Hz 3 Phase 380-415V, 50Hz			
Norminal 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 proceuro loval	Indoor (Hi/Me/Lo)	dB(A)	48/40*	51/41/37	54/41/37		
Sound pressure level	Outdoor	dB(A)	56	58	59		
Airflow	Indoor (Hi/Me/Lo)	m³/min	21/15**	25/17/15	28/17/15		
Airitow	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		
Mat	Indoor	kg	51	53	53		
Net weight	Outdoor	kg	46	85	108		
D. ()	Туре			R410A			
Refrigerant	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) l	ength	m	30	50	50		
Vertical height differences (Outdoor is higher/lower)	m	MAX.10/MAX.10	MAX.10/MAX.10 MAX.30/MAX.15			
Outdoor operation temperat	ure range	°C	21-43				

STANDARD

*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)

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			
i ower source	Outdoor		3 Phase 380 - 415V, 50 Hz					
Nominal cooling capacity			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	58/55/52		
	Outdoor		6	0	60x2			
Airflow	Indoor (Hi/Me/Lo)	m³/min	76/67/55	76/67/55	120/113/93	120/113/93		
	Outdoor	m³/min	20	00	200x2			
Available static pressure		Pa	STD: 80 MAX: 200					
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	360x15	70x830	685 x 1570 x 830			
	Outdoor (HeightxWidthxDepth)	mm	1675x10	80x480	(1675 x 1080 x 480) x 2			
Net weight	Indoor	kg	99	99	180	180		
Net weight	Outdoor	kg	181	181	181x2	182x2		
Refrigerant	Туре			R4	410			
Reinigerant	Charge amount (Pre-charge pipe length)	kg(m)	6.5(5m)	7.4(5m)	6.5(5m) x 2	7.4(5m) x 2		
Piping size (Liquid/Gas)				ф12.7/	φ22.22			
Refrigerant line (one way)	length	m	50					
Vertical height differences	(Outdoor is higher/lower)	m	MAX.30/MAX.15					
Outdoor operation tempera	ture range	°C	10-43					

FDF____ **BIG CAPACITY FLOOR STANDING**

FDF250CSY-S

FDAS500CSY-S

REMOTE CONTROL

FDF500CSY-S + AS-DA500CSY

Wired (standard)

RCN-Q1

Indoor unit			FDF250CSY-S	FDF500CSY-S + AS-DA500CSY	FDAS500CSY-S		
Outdoor Unit			FDC250CSY-S	FDC250C	SY-S x 2		
Power source	Indoor		1 Phase 220 - 240V, 50 Hz	3 Phase 380	- 415V, 50 Hz		
i ower source	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	Sound pressure level Indoor (Hi/Me/Lo)		54/49/44	68	64		
	Outdoor	dB(A)	60	60x2			
A. 6	Indoor (Hi/Me/Lo)	m³/min	60/41/35	160			
Airflow	Outdoor	m³/min	200	200x2			
Exterior dimensions	Indoor (HeightxWidthxDepth)	mm	1850 x 1200 x 320	2020 x 1500 x 800			
Exterior uniterisions	Outdoor (HeightxWidthxDepth)	mm	1675 x 1080 x 480	(1675 x 108	0 x 480) x 2		
Matana fala	Indoor	kg	99	3	62		
Net weight	Outdoor	kg	181	18	1x2		
Pofrigorant	Туре			R410A			
Kenigerant	Charge amount (Pre-charge pipe length)	kg(m)	7.4(5m)	7.4(5r	n) 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 temper	ature range	°C	10-43				

Usage Limitation

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 Staĥdards. 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 openerated, 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 nareas differing from a canceral 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.

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.

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

ake 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 (charned 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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Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001

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