

Our Technologies, Your Tomorrow

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Inverter Packaged Air Conditioners

eco touch REMOTE



Simple setting by **tapping button** only

High power operation

Maximum capacity operation (Max 15 minutes)

- Increased compressor speed
- Increased air flow

Energy-saving operation

- Changes set temperature at 28°C in cooling mode and 22°C in heating mode, 25°C in auto mode.
- Operation correction by outdoor temperature

Main functions

Energy management

Peak cut timer ● Automatic temperature set back ● Weekly timer ● Set ON/OFF timer by hour

• Set ON/OFF timer by clock • Fan only operation • Sleep timer

Comfort

Individual flap control • High power operation • External ventilation ON/OFF • Warm up operation Automatic fan speed • Temperature increment setting by 0.5°C



CONTROL

Advanced touch screen panel with full dot Liquid Crystal Display

Basic operation

All settings done by tapping touch screen panel



The operation mode can be selected by simply tapping this button.



Setting temperature screen



You can select the desired temperature by tapping the ▲▼ button.

Operation mode











Convenience

LCD contrast setting • Back light setting • Filter clean sign • Control sound • Outdoor silent mode

- Summer time setting Home leave mode Indoor & outdoor temperature display
- Heating standby display
 Defrosting operation display
 Auto cooling/heating display
 OC/oF display
- Administrator settings Room name setting

Service

Error code display • Operation data display • Next service data display • Contact company display

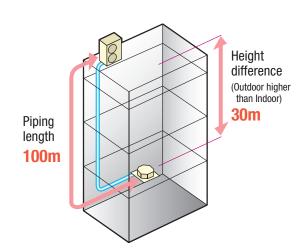
• USB connection (mini-B)

Our advanced technology has allowed us to achieve high efficiency, powerful heating and long distance refrigerant piping specifications.

This feature permits installation of the units when a heating operation under temperature conditions down to -20°C is required. Design flexibility has been improved by an extension of the refrigerant piping length to 100m (12.5 & 14.0kW).



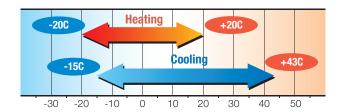
Long piping (in case of 12.5 & 14.0kW)



Strong heating (in case of 7.1~14.0kW)

-20C : Heating operation down to -20C

-15C : Nominal heating capacity maintained at -15C

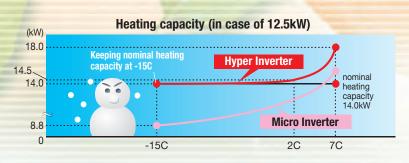




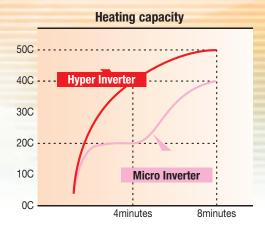
Powerful heating capacity

Maximum heating capacity has been increased by optimising refrigeration control, the use of electronic expansion valves and our twin rotary compressors.

The Hyper Inverter series can reach the set temperature very quickly. Normal heating capacity can be maintained when the outdoor temperature is -15°C. It is very effective for use in cold areas.



Temperature of supply air can reach 40C in 4 minutes after start up under low temperature operation conditions (at both indoor and outdoor temperature of 2C) and can reach 50C in 8 minutes after that.



Micro Inverter

Compact design of outdoor units

FDC100VN 10.0kW

Our single fan micro 10.0kW condenser is one of the most compact in the industry being only 845(h)x970(w)x370(d)

Size reduction and high efficiency performance of the DC twin rotary compressor

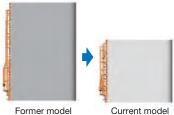
The DC twin rotary compressor can operate at speeds as high as 120 rps to achieve the required capacity. Vector control provides perfect compressor control. Starting current has reduced significantly and vibration has been minimized.





Improved efficiency of the heat exchanger

Re-designing the fins to a straight shape has reduced the pressure loss of the air flow in the heat exchanger. A new surface treatment on the fins has enhanced the frost resistance capacity compared to former models. A high speed fan motor has increased the airflow which allows cooling capacity to be maintained even at high outdoor air temperatures.



Protection

Improved operation of the electronic expansion valve allows for more reliable oil return and this assists to protect the compressor.

Ceiling Cassette - 4way - Indoor units

FDT-FDTC



Individual flap control system

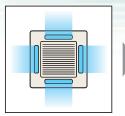
Individual flap control is available even after installation. This means that the installation area has become wider than before.

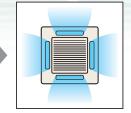
The outlet design has been perfected to allow sufficient air flow that can reach a long distance from the indoor unit.











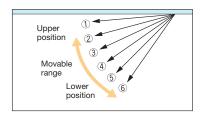
Previous

Current

Flap control system

The design of the heat exchanger has changed from 2 parts to a single piece. The height of the indoor unit has been reduced significantly.

*RCH-E3 is not applicable to the Individual flap control system and the Flap control system.



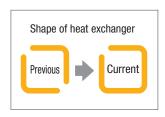


For person who is far from the indoor unit

The thinnest design

The design of the heat exchanger has changed from 2 parts to 1 part, the height of indoor unit is reduced.

DC fan motors are used to increase efficiency. Weight has been reduced and as a result the unit has become one of the most compact in the industry.









For both persons who are feeling hot or cold

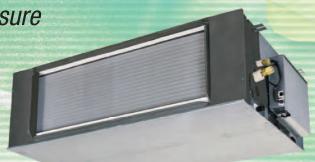


Can cool both the kitchen and the guests



Duct Connected - Middle Static pressure

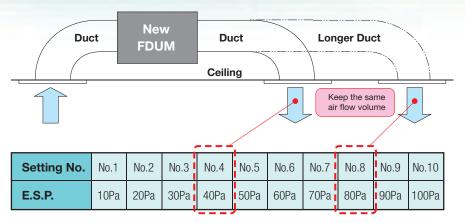
FDUM



Automatic external static pressure (E.S.P.) control

By using a DC motor, the optimum air flow volume can be achieved by this automatic control.

The indoor unit will recognize external static pressure automatically and keep rated air flow volume.

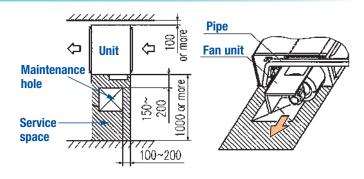




External static pressure can be set by E.S.P. button.

Improved servicing

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



Improvement of low tap noise dB(A)

Air flow sound has been reduced by a new fan and casing design.

Refrigerant flow sound was been decreased by advanced refrigerant distributor design.

Indoor model name	FDUM50VF	FDUM60VF	FDUM71VF	FDUM100VF	FDUM125VF	FDUM140VF
Nominal cooling capacity	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW
NEW FDUM	26	25	25	30	30	30
Current FDUM	28	28	29	32	33	33

Hyper Inverter INDOOR UNIT

CEILING CASSETTE -4way-





FDT 60/125/140VD **FDT 71/100VF**

Remote control (Option)











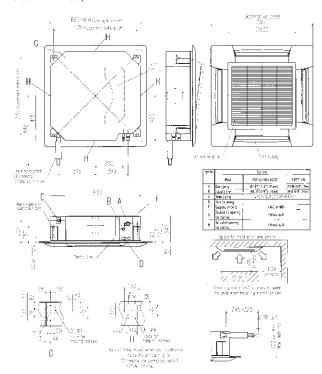
RC-EX1A

RC-E5 Wireless

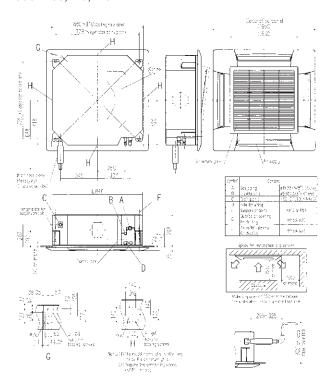
RCH-E3 RCN-T-36W-E

■ Outline drawing (Unit:mm)

Model FDT 60,71VD



Model 100,125,140VD







Installation

Detachable covers at each corner allows for easy alignment and balance. The panel does not need to be removed. Installation time is reduced.



Infrared control option

For wireless control simply insert the infrared receiver kit on the corner.







Easy checking of drain pan

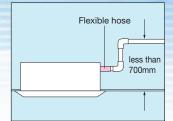
To check the drain pan simply remove the corner lid.





700mm Drain Pump

Drain can be discharged upwards by 700mm from the ceiling surface. The 260mm flexible hose is supplied as standard equipment.



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			FDT60ZJXVD	FDT71VNXVF FDT100VNVF		FDT125VNXVD	FDT140VNXVD		
Indoor			FDT60VD	FDT71VF	FDT100VF	FDT125VD	FDT140VD		
Outdoor		SRC60ZJX-S FDC71VNX FDC100VN FDC125VNX FDC1					FDC140VNX		
Power supply	Indoor Unit		1 Phase 230V 50Hz						
	Cooling T1		5.6 (2.8-6.3)	7.1 (3.2-8.0)	10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-16.0)		
Capacity	Heating H1	kW	6.7 (3.1-7.1)	8.0 (3.6-9.0)	11.2 (4.0-12.5)	14.0 (4.0-17.0)	16.0 (4.0-18.0)		
	Heating H2		N/A	7.2	N/A	15.6	16		
Input	Cooling T1	kW	1.52	2.04	2.76	3.28	4.19		
	Heating H1	KVV	1.70	1.94	2.74	3.43	4.2		
EER	Cooling T1		3.68	3.48	3.62	3.81	3.34		
COP	Heating H1		3.94	4.12	4.08	4.08	3.81		
Sound pressure level (JIS C9612)	Indoor	dB (A)	P-Hi:46 Hi:33 Me:31 Lo:30	P-Hi:46 Hi:35 Me:33 Lo:31	P-Hi:51 Hi:40 Me:37 Lo:35	P-Hi:51 Hi:42 Me:40 Lo:37	P-Hi:51 Hi:43 Me:41 Lo:38		
	Outdoor	()	54	51	49	50	52		
Sound power level (JIS C9612)	Outdoor	dB(A)	64	66	70	70	72		
Airflow	Indoor	l/s	P-Hi: 466 Hi: 300 Me: 266 Lo: 233	P-Hi: 466 Hi: 350 Me: 316 Lo: 283	P-Hi: 616 Hi: 450 Me: 400 Lo: 333	P-Hi: 616 Hi: 500 Me: 450 Lo: 383	P-Hi: 616 Hi: 500 Me: 450 Lo: 383		
Panel		mm	T-PSA-3AW-E (35 x 950 x 950)	T-PSA- (35 x 95	3BW-E 0 x 950)	T-PSA-3AW-E (35 x 950 x 950)			
External dimensions	Indoor		246 x 8	40 x 840	40				
(HXWXD)	Outdoor	mm	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370	1300 x 970 x 370			
Not weight	Indoor	lea	Unit 24 F	Panel 5.5		Unit 27 Panel 5.5			
Net weight	Outdoor	kg	45	60	81	11	05		
	Liquid line		Ø6.35		Ø9.	52			
Refrigerant piping	Gas line	mm	Ø12.7		Ø15	.88			
	Connection method				Flare connection				
Defrigerent D410A	Quantity	kg	1.5	2.95	3.8	4	.5		
Refrigerant R410A	Pre charged to pipe length	m	15		3	0			
Maxium Pipe Length		m	30	5	0	1	00		
Controller			<u> </u>	RC	C-E5, RC-EX1 or RCN-T-36W	-E			

VF model may be supplied in lieu.

Hyper Inverter INDOOR UNIT







Remote control (Option)

Wired











RC-EX1A

RCH-E3 RC-E5

RCN-TC-24W-ER

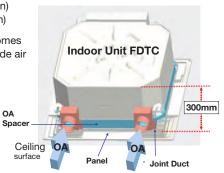


Taking OA (Outside air) into inside

OA Spacer TC-OAS-E (option) Joint Duct TC-OAD-E (option)

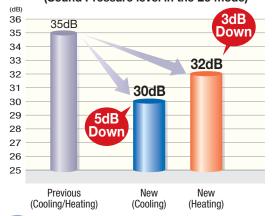
Utilizing OA spacer which comes as optional equipment, outside air can be taken into inside.

Using 1 joint duct:
OA comes up to 1.3m³/min. Using 2 joint ducts: OA comes from 1.3 to

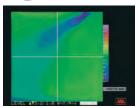


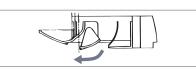
Ouiet operation

(Sound Pressure level in the Lo mode)



"CLEARER"Air





New shape & angled louver redirects the air current away from the ceiling, to reduce ceiling stains

Compact and Convenient

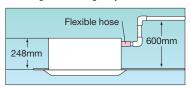
• 600mm Drain Pump

Drain can be discharged upward by 600 mm from the ceiling surface close to the indoor unit.

It allows a piping layout with a high degree of freedom depending on the installation location.

•600 x 600 ceiling

Indoor unit size (W:570 x D:570) brings easy installation for 600 x 600 ceiling and Panel size (700 x 700) is suitable for 600 x 600 ceiling. Height is one of the industry's lowest level at 248mm and weight is 16.5kg only.



Installation Workability



For wireless control simply insert the infrared receiver kit on a corner of the panel

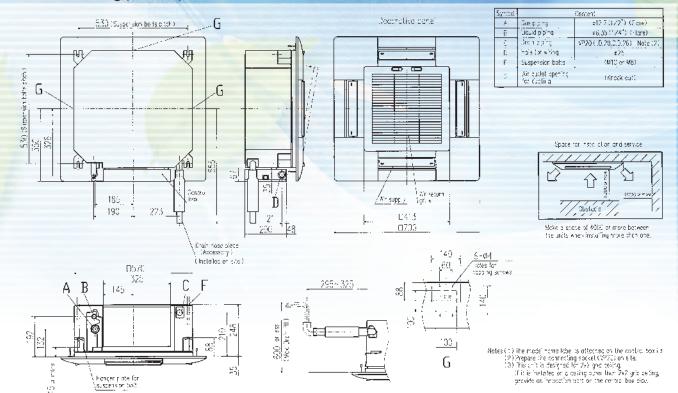




wireless remote control RCN-TC-24W-ER



Outline drawing (Unit:mm)

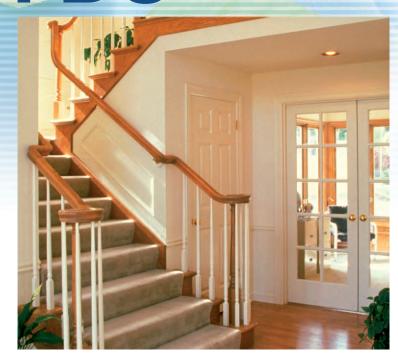


FDTC Series

			FDTC50ZJXVD
Indoor			FDTC50VD
Outdoor			SRC50ZJX-S
Power supply	Outdoor Unit		1 Phase 230V 50Hz
	Cooling T1		5.0(1.1-5.6)
Capacity	Heating H1	kW	5.4 (0.6-6.3)
	Heating H2		5.10
Input	Cooling T1	kW	1.56
Input	Heating H1	KVV	1.45
EER	Cooling T1		3.20
COP	Heating H1		3.72
Sound pressure level (JIS C9612)	Indoor	dB (A)	P-Hi:47 Hi:42 Me:36 Lo:30
Sourid pressure level (JIS C9612)	Outdoor	UB (A)	54
Sound power level (JIS C9612)	Outdoor	dB(A)	63
Airflow	Indoor	I/s	P-Hi: 225 Hi: 191 Me: 150 Lo: 133
Panel	TC-PSA-25W-E	mm	35 x 700 x 700
External dimensions (HXWXD)	Indoor	mm	248 x 570 x 570
External difficults (fixwad)	Outdoor	111111	640 x 800(+71) x 290
Not weight	Indoor	lea	Unit 15 Panel 3.5
Net weight	Outdoor	kg	45
	Liquid line	mm	Ø6.35
Refrigerant piping	Gas line	mm	Ø12.7
	Connection method		Flare connection
Pofrigorout DA10A	Quantity	kg	1.5
Refrigerant R410A	Pre charged to pipe length	m	15
Maxium Pipe Length		m	30
Controller			RC-E5, RC-EX1 or RCN-TC-24W-ER

HyperInverter INDOOR UNIT

DUCT CONNECTED -High Static pressure-



LIMITED STOCK



FDU 100/125/140VD

Wired remote control





RC-E5 RCH-E3 (Option)

Wireless remote control

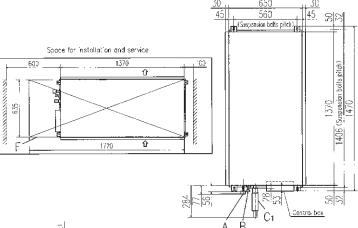


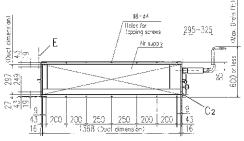


RCN-KIT3-E (Option)

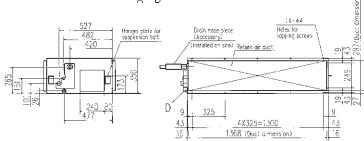
■ Outline drawing (Unit:mm)

FDU100,125,140VD





Symbol	Content							
A	Gas piping	\$15.68 (578") (Flare)						
B	Liquid piping	#9.52 (3/8°) (Flore)						
Ci	Drain piping	VP200(0,20, 0,0,26) Nate (2)						
Ci	Orain piping (Gravity drainuge)	VP20(L0,20, C.D.28) Nate (2)						
- 0	Hole for wiring							
8	Suspension boils	(M10)						
T	Inspection hate	(635X1200)						



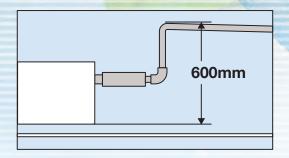
Notes (1) The model name label is attached on the lid of the control box. (2) Prepare the connecting socket (YP20) on site.

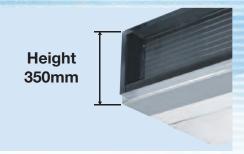




Quiet, Lightweight and Compact

A drain pump is fitted to all units as standard and can can be used in the event that gravity drainage is not possible. Remote sensors are recommended to be used with series to ensure optimum operation.





FDU Series							
			FDU100VNVD	FDU125VNXVD	FDU140VNXVD		
Indoor			FDU100VD	FDU125VD	FDU140VD		
Outdoor			FDC100VN*	FDC125VNX	FDC140VNX		
Power supply	Outdoor Unit			1 Phase 230V 50Hz			
	Cooling T1		10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-16.0)		
Capacity	Heating H1	kW	11.2 (4.0-12.5)	14.0 (4.0-17.0)	16.0 (4.0 -18.0)		
	Heating H2		8.5	14.3	14.4		
la a d	Cooling T1	134/	2.88	3.44	4.20		
Input	Heating H1	kW	2.99	3.67	4.30		
EER	Cooling T1		3.47	3.63	3.33		
COP	Heating H1		3.74	3.81	3.72		
Sound pressure level (JIS C9612)	Indoor	-ID (A)	Hi:42 Lo:37	Hi: 43 Lo: 38	Hi: 43 Lo: 38		
	Outdoor	dB (A)	49	50	52		
Sound power level (JIS C9612)	Outdoor	dB(A)	70	70	72		
Airflow	Indoor	l/s	Hi:566 Lo:450	Hi: 700 Lo:558			
External Static Pressure	Indoor	Pa	60/130@566 l/s	60/130@	700 l/s		
	Indoor		350 x 1370 x 650				
External dimensions (HXWXD)	Outdoor	mm	845 x 970 x 370	970 x 370 1300 x 970 x 370			
N-1!L1	Indoor	l	63				
Net weight	Outdoor	kg	81	105			
	Liquid line			Ø9.52			
Refrigerant piping	Gas line	mm		Ø15.88			
	Connection method			Flare Connection			
Pofrigorant D/110A	Quantity	kg	3.8	4.5	5		
Refrigerant R410A	Pre charged to pipe length	m		30			
Maxium Pipe Length		m	50	10)		
Return % Supply Air Connection	Flange	mm		290 x 1368			
Controller				RC-E5, RC-EX1 or RCN-KIT3-E			

Hyper Inverter INDOOR UNIT

FDUM

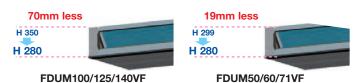
DUCT CONNECTED-Middle Static pressure-

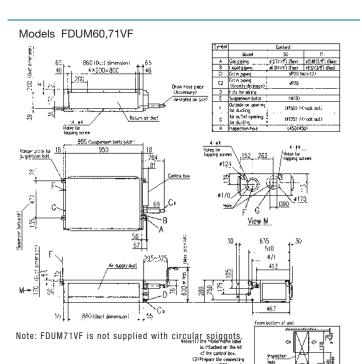


FDUM 50/60/71/100/125/140VF

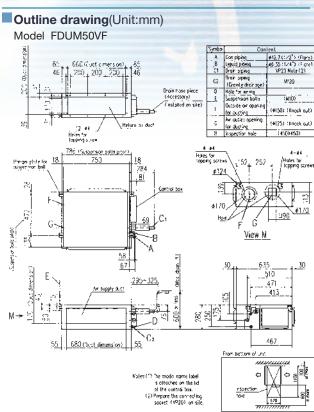
Point Thin design

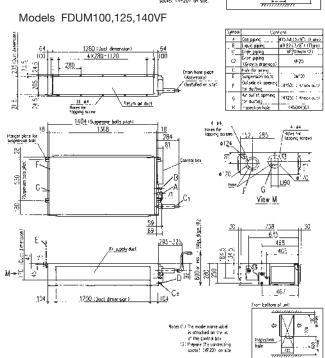
The height of all FDUM models is only 280mm.







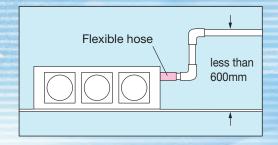






(Point 2) 600mm Drain Pump

Drain can be discharged upwards by 600mm from the ceiling surface. It allows a piping layout with a high degree of freedom depending on the installation location.



			FDUM50ZJXVF	FDUM60ZJXVF	FDUM71VNXVF	FDUM100VNVF	FDUM125VNXVF	FDUM140VNXVF	
Indoor			FDUM50VF	FDUM60VF	FDUM71VF	FDUM100VF	FDUM125VF	FDUM140VF	
Outdoor			SRC50ZJX-S	SRC60ZJX-S	FDC71VNX	FDC100VN	FDC125VNX	FDC140VNX	
Power supply	Outdoor Unit				1 Phase 2	230V 50Hz			
Capacity	Cooling T1		5.0 (2.2-5.6)	5.6 (2.8-6.3)	7.1 (3.2-8.0)	10.0 (4.0-11.2)	12.5 (5.0-14.0)	14.0 (5.0-14.5)	
	Heating H1	kW	5.4 (0.6-6.3)	6.7 (0.6-7.1)	8.0 (3.6-9.0)	11.2 (4.0-12.5)	14.0 (4.0-17.0)	16.0 (4.0-18.0)	
	Heating H2		4.2	4.8	6.9	N/A	5.2	5.2	
Input	Cooling T1	kW	1.56	1.75	2.20	2.92	3.60	4.40	
IIIput	Heating H1	NVV	1.70	2.00	2.20	3.20	3.90	4.54	
EER	Cooling T1		3.21	3.20	3.23	3.42	3.47	3.18	
COP	Heating H1		3.18	3.35	3.64	3.50	3.59	3.52	
Sound pressure level	Indoor	dB (A)	P-Hi:37 Hi:32 Me:29 Lo:26	P-Hi:36 Hi:31 Me:28 Lo:25	P-Hi:38 Hi:33 Me:29 Lo:25	P-Hi:44 Hi:38 Me:36 Lo:30	P-Hi:45 Hi:40 Me:34 Lo:29	P-Hi:47 Hi:40 Me:35 Lo:30	
(JIS C9612)	Outdoor	GD (1)	50	54	60	49	50	49	
Sound power level (JIS C9612)	Outdoor	dB(A)	63	64	66	70	70	72	
Airflow	Indoor	I/s	P-Hi: 217 Hi: 167 Me: 150 Lo: 133	P-Hi:333 Hi:250 Me:217 Lo:167	P-Hi: 400 Hi: 316 Me: 250 Lo: 166	P-Hi:600 Hi:467 Me:417 Lo:317	P-Hi:650 Hi:533 Me:433 Lo:333	P-Hi:800 Hi:583 Me:467 Lo:367	
External Static Pressure		Pa	100@217 l/s	100@333 l/s	100@400 l/s	100@600 l/s	100@650 l/s	100@800 l/s	
External dimensions	Indoor		280 x 750 x 635	280 x 950 x 635	280 x 950 x 635	280 x 1370 x 740	280 x 1370 x 740	280 x 1370 x 740	
(HXWXD)	Outdoor	mm	640 x 800(+71) x 290	640 x 800(+71) x 290	750 x 880(+88) x 340	840 x 970 x 370	1300 x 970 x 370	1300 x 970 x 370	
Net weight	Indoor	kg	29	34	34	54	54	54	
Net weight	Outdoor	ky	45	45	60	81	105	105	
	Liquid line	mm	Ø6.35	Ø6.35	Ø9.52	Ø9.52	Ø9.52	Ø9.52	
Refrigerant piping	Gas line	mm	Ø12.7	Ø12.7	Ø15.88	Ø15.88	Ø15.88	Ø15.88	
	Connection method				Flare Co	nnection			
	Quantity	kg	1.5	1.5	2.95	3.8	4.5	4.5	
Refrigerant R410A	Pre charged to pipe length	m	15	15	30	30	30	30	
Maxium Pipe Length		m	30	30	50	50	100	100	
Supply Air Connection		mm	170 x 680	170 x 880	170 x 880	170 x 1200	170 x 1200	170 x 1200	
Return Air Connection		mm	200 x 660	200 x 860	200 x 860	235 x 1280	235 x 1280	235 x 1280	
Controller					RC-E5. RC-EX1	or BCN-KIT3-F			

HyperInverter INDOOR UNIT

FDEN CEILING SUSPENDED





FDEN 100/125VF

Remote control (Option)

Wired





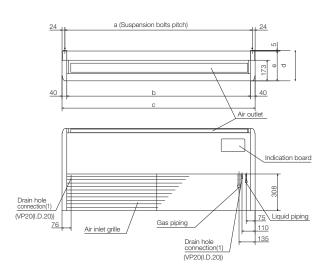


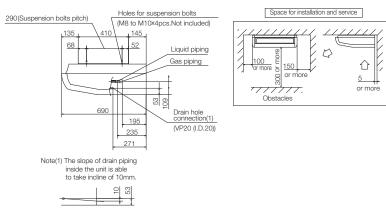
RC-EX1A

RC-E5

RCH-E3 RCN-E1R

■ Outline drawing (Unit:mm)





Dimension Table

model	а	b	С	d	е
FDEN100~125	1572	1540	1620	255	250





Improved installation workability

Compact and modern design

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 below.



All models fit compactly on ceiling. (Height-210mm or 250mm). Plain, modern design featuring rounded edges gives room a comfortable atmosphere.

FDEN125VNXVD

FDEN Series

Indoor			FDEN100VD	FDEN125VD		
Outdoor			FDC100VN	FDC125VNX		
Power supply	Outdoor Unit		1 Phase 2	230V 50Hz		
	Cooling T1		10 (4.0-11.2)	12.5 (5.0-14.0)		
Capacity	Heating H1	kW	11.2 (4.0-12.5)	14.0 (4.0-17.0)		
	Heating H2		8.7	15.0		
Input	Cooling T1	kW	2.85	3.86		
input	Heating H1	KVV	2.97	3.77		
EER	Cooling T1		3.51	3.23		
COP	Heating H1		3.77	3.71		
Energy Label	Cooling T1	Stars	2	1		
	Heating H1	Stars	2.5	2		
Sound pressure level (JIS C9612)	Indoor	dD (A)	P-Hi:46 Hi:44 Me:41 Lo:39	P-Hi:50 Hi:46 Me:44 Lo:43		
	Outdoor	dB (A)	49	50		
Sound power level (JIS C9612)	Outdoor	dB(A)	70	70		
Airflow	Indoor	l/s	P-Hi:466 Hi:433 Me:383 Lo:350	P-Hi:533 Hi:483 Me:433 Lo:383		
Futament discounting (LIVAN/D)	Indoor		250 x 1620 x 690			
External dimensions (HXWXD)	Outdoor	mm	845 x 970 x 370	1300 x 970 x 370		
Not weight	Indoor	lea	4	19		
Net weight	Outdoor	kg	81	105		
	Liquid line	mm	Ø9	0.52		
Refrigerant piping	Gas line	111111	Ø15	5.88		
	Connection method		Flare Co	onnection		
Refrigerant R410A	Quantity	kg	3.8	4.5		
nemyerani N410A	Pre charged to pipe length	m	3	30		
Maxium Pipe Length		m	50	100		
Controller			RC-E5, RC-E	X1 or RCN-E-E		

FDEN100VNVD

VF model may be supplied in lieu.

Hyperinverter OUTDOOR UNIT 5.0-14.0kW









FDC125VNX FDC140VNX

Blue Fin 7.1-14.0kW

Due to application of blue coated fins (KS101) for the heat exchanger of the new outdoor unit, corrosion resistance has been improved compared to previous models.





Base heater kit (option)

This kit is recommended to be used in an area where the temperature drops below 0°C.

CW-H-E applied for FDC100VN FDC125~140VNX

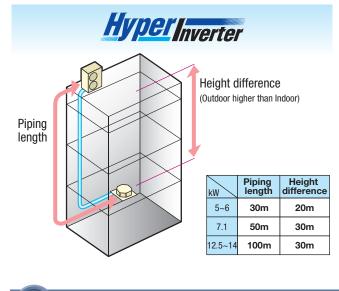


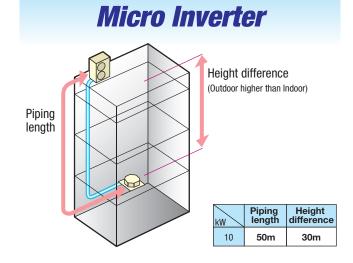
Installation workability

Enhanced installation workability thanks to the extended pipe length – one of the longest levels in the industry. Units are pre-charged with refrigerant.



Piping length - 100m (Hyper Inverter 12.5~14.0kW)





Refrigerant precharged piping length extending to 30m

Refrigerant precharged piping length extends up to 30m. (5.0 & 6.0kW up to 15m)

This eliminates the need to add refrigerant on site, which sets it free from the trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly.



High efficiency

Reduction of air flow pressure loss

Pressure caused by air flow in the indoor unit is reduced by making the air outlet larger. The reduction of pressure reduces the load on the fan motor so efficiency increases.

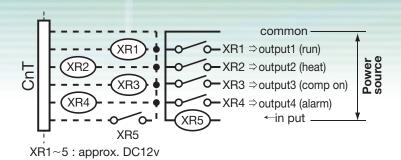
Increase of heat transfer efficiency

Heat transfer efficiency has improved by using high efficiency piping and by the redesign of the heat exchanger from 2 to 1 piece.

Convenience

CnT terminal

A dry contact is fitted to each indoor unit which is used when a signal output is required.



Monitoring Function

Condensers are fitted with RS232C so you can connect directly to your PC for monitoring. MHI service software, Mente PC makes service tasks simple.



Remote control RC-E5

The new remote control for all indoor units. Non-polar 2 core wiring is used. Installation is easier.



All models employ R410A with RoHS* directive

Employment of lead free solder

Adapt to RoHS

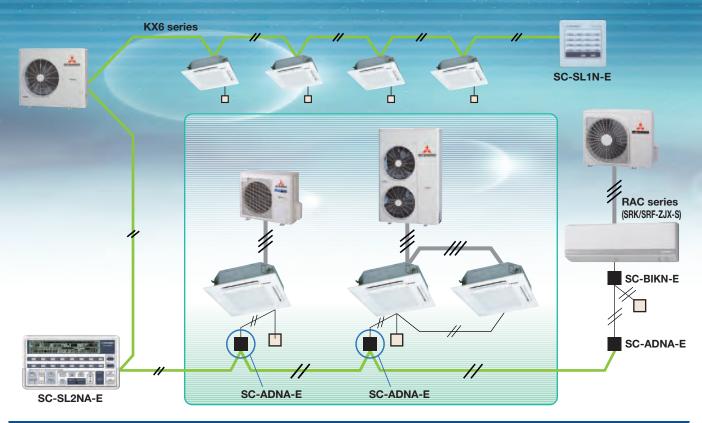
In order to comply with RoHS standard, the new inverter series use lead free solder.

*"RoHS" is the abbreviation of the new European standard, which means Restriction of Hazardous Substances.

Employment of R410A refrigerant

All models of the FD inverter series use refrigerant R410A characterized by the ozone depletion coefficient being 0.

Control System SUPERLINGER



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 centralised control.

PC windows central control

SC-WGWNA-A/B

(SC-WGWNA-B has electric power calculation function)



Up to 96 cells (some cells can have two or more indoor units and total number of indoor units can be up to 128 units) are controlled from the Internet.

Additional engineering service cost is required. Please consult your dealer when using this central control.

SC-SL2NA-E



Centralised control of up to 64 indoor units. It can allow connection with a weekly timer without using any interface.

SC-SL3N-AE/BE



Easy operation through the large color LCD and touch panel. Up to 128 indoor units can be controlled, when three SUPERLINK-II systems are connected.

BMS interface unit

SC-BGWN-A/B

(BACnet gateway)
(SC-WGWN-B has electric power calculation function)



Up to 96 cells (some cells can have two or more indoor units and total number of indoor units can be up to 128 units) are controlled centrally from a BMS.

Additional engineering service cost is required. In case of SC-BGWN-B, communication test by qualified person regarding electric cost calculation function is required before commissioning. Please consult your dealer when using this gateway.

SC-LGWN-A (LonWorks gateway)



Up to 96 indoor units (48 indoor unit x 2) are linked as an open network. Centrally controlled through LonWorks.

Additional engineering service cost is required. Please consult your dealer when using this gateway.

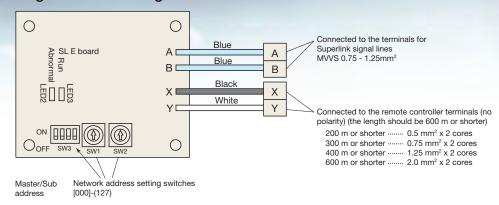
SUPERLINK E BOARD (SC-ADNA-E)

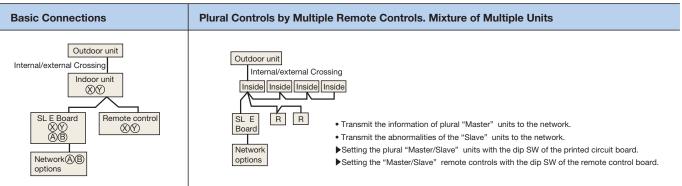
This board is used when conducting control of the single package (wired remote control unit) 1-type series using a network option (SC-SL1N-E, SC-SL2NA-E, etc).

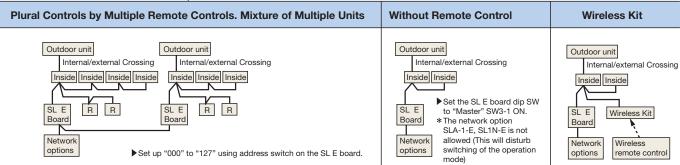
(1) Functions

- (a) Transmits the settings from the network option to the indoor units.
- (b) Returns the priority indoor unit data in response to a data request from the network option.
- (c) Inspects the error status of connected indoor units and transmits the inspection codes to the network option.
- (d) A maximum of 16 units can be controlled (if in the same operation mode).

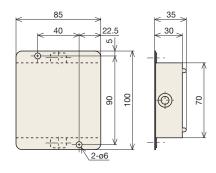
(2) Wiring connection diagram







(3) Metal box dimension



Control Systems - Individual Control

Remote Control line up

	indoor unit	remote control
wired	all madala	RC-E5
wired	all models	RCH-E3

	indoor unit	remote control
	FDT	RCN-T-36W-E
wireless	FDTC	RCN-TC-24W-ER
WILCIGSS	FDUM, FDU	RCN-KIT3-E
	FDEN	RCN-E-E

Wired remote control with weekly timer (option)

RC-E5



The RC-E5 controller enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

Weekly timer function as standard

RC-E5 provides (as a standard feature) a weekly timer, which allows one-week operation schedules to be registered. A user can specify up to four times a day to start/stop the air conditioner. (Temperature setting is also possible with the timer).

Timer operation

Time	8	9	10	11	12	13	14	15	16 -	23
RUN	Time	r-1		Time	r-2	Time	r-3		Tim	er-4
STOP										

Run hour metres to facilitate maintenance checking

RC-E5 stores operation data when an anomaly occurs and indicates the error on the LCD. It also displays cumulative operation hours of the air conditioner and compressor since commissioning.

Room temperature controlled by the remote control sensor

The temperature sensor is housed in the top section of the remote control unit. This arrangement has improved the sensitivity of the remote control unit's sensor, which permits more finely controlled air conditioning.



Changeable set temperature ranges

RC-E5 allows the upper and lower limits of a set temperature range to be specified separately.

By adjusting a set temperature range, you can ensure energy saving air conditioning by avoiding excessive cooling or heating.

Changeable range	
Upper limit	20~30C(effective for heating operation)
Lower limit	18~26C(effective for non-heating operation)

Simple remote control (option)

RCH-E3 (wired)



Considering specialised usage in hotel rooms, control buttons are limited only to minimum required functions such as ON/OFF, mode, temperature setting and fan speed. It is really simple and easy to use.

RCH-E3 is not applicable to the Individual flap control system and the Flap control system. When RCH-E3 is used, the fan has 3 speed settings (Hi-Me-Lo) only.

Up to 16 units

It can control up to 16 units individually, by pressing the AIR CON No. button.

AUTO restart

This function allows starting the air conditioner automatically when power supply is restored after power failure or by turning on the power switch.

Wireless remote control (option)

For wireless control simply insert the infrared receiver kit on a corner of the panel.

RCN-T-36W-E, RCN-TC-24W-ER



RCN-KIT3-E





RCN-E-E

Thermistor (option) SC-THB-E3

This sensor is used when individual remote control is not required in each room and the system is under central control. By installing sensors in strategic locations through out the structure greater comfort control is achieved. In many instances one additional

sensor is all that is required.



When wireless remote control is used, the fan has 3 speed settings (Hi-Me-Lo) only.







Before starting use

Heating performance

The heating performance values (kW) described in catalog are the values obtained by operating at an outdoor temperature of 7C and indoor temperature of 20C as set forth in the ISO Standards. As the heating performance decreases as 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 as 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

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 (R410A) used for Air conditioner is non-toxic and nonflammable 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 foodstuffs, animals or plants, computer server rooms, 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

Usage place

base.

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.

Only persons that are qualified and licensed are permitted to install and service products that contain refrigerants in Australia, go to www.arctick.org. Suitable access for service must be provided in compliance with industry standards and local regulations.



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ISO9001

Our Air Conditioning & Refrigeration Systems Headquarters is an ISO9001 approved factory for residential air conditioners and commercial-use air conditioners (including heat pumps).





MITSUBISHI HEAVY INDUSTRIES-MAHAJAK AIR CONDITIONERS CO., I Certified ISO 9001 Certificate Number: 04100 1998 0813

ISO14001

Our Air Conditioning & Refrigeration Systems Headquarters has been assessed and found to comply with the requirements of ISO14001.



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