

High Performance Air-Conditioning 2016



Hyper Inverter

Our new advanced technology has realized high efficiency, strong heating and long piping.

This contributes to the environmental protection through energy saving and permits installation of the units (4~6HP) considering a heating operation under temperature conditions down to -20°C and design flexibility has been improved by extension of piping length to 100m.

Line up

HP	1.5	2	2.5	3	3.5	4	5	6	8	10
Hyper Inverter	●	●	●	●	—	●	●	●	—	—



SRC40ZMX-S (1.5HP)
SRC50ZMX-S (2.0HP)
SRC60ZMX-S (2.5HP)



FDC71VNX (3.0HP)



FDC100VNX/VSX (4.0HP)
FDC125VNX/VSX (5.0HP)
FDC140VNX/VSX (6.0HP)

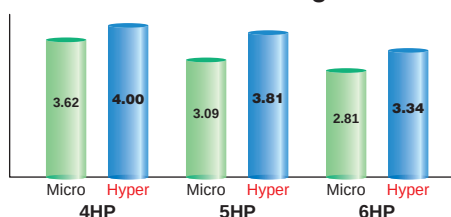
Blue Fin

Blue Fin

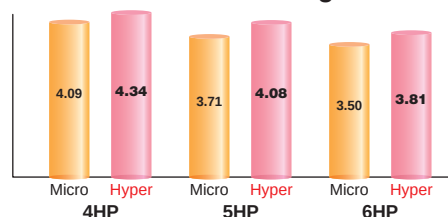
High efficiency (comparison of FDT series)

Hyper inverter outdoor units high COP levels are achieved by our latest technologies, such as high efficient twin rotary compressors.

EER in cooling



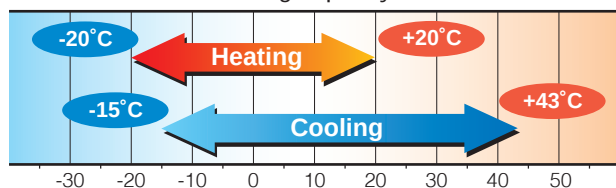
COP in heating



Strong heating (Hyper Inverter 3~6HP)

-20°C : Heating operation down to -20°C

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

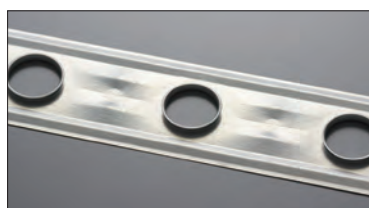
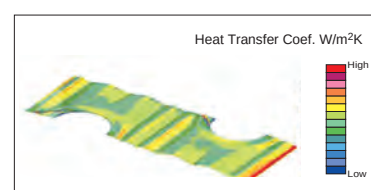


Max. heating capacity (kW)

	Hyper Inverter	Micro Inverter
FDC100VSX(4HP, 3Phase 380V)	16.0	12.5
FDC125VSX(5HP, 3Phase 380V)	18.0	16.0
FDC140VSX(6HP, 3Phase 380V)	20.0	16.5

High efficiency (All outdoor units)

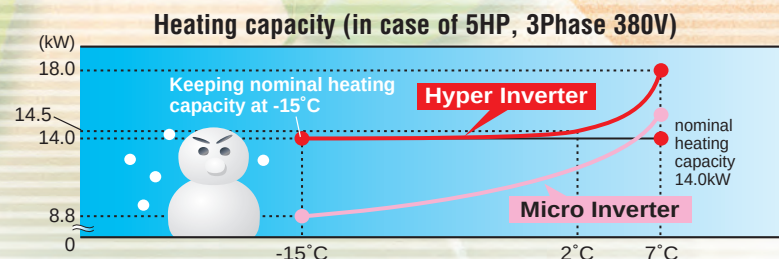
Thanks to changing fin configuration from flat sheet to M shape fin. This high dimensional structure provides optimum balance of heat transfer and airflow.



Leading powerful heating capacity in the industry

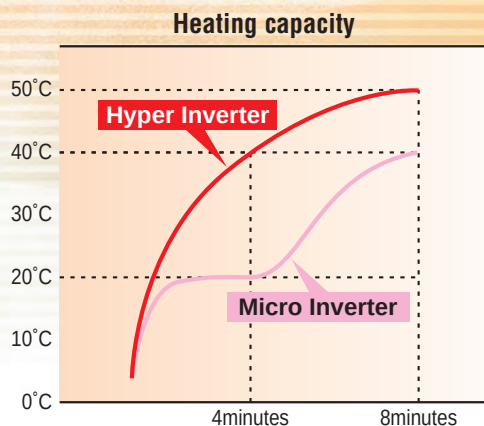
Thanks to optimization of refrigeration control with use of electric expansion valve and development of twin rotary compressors, max heating capacity has been increased.
Hyper Inverter series can reach the set temperature very quickly, keeping nominal heating capacity when outdoor temperature is -15°C. It is effective to be used even in cold area.

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



model name	nominal heating capacity (kW at outdoor temperature of 7°C)	heating capacity at outdoor temperature of -15°C
FDC100VSX(4HP, 3Phase 380V)	11.2kW	11.2kW
FDC125VSX(5HP, 3Phase 380V)	14.0kW	14.0kW
FDC140VSX(6HP, 3Phase 380V)	16.0kW	16.0kW

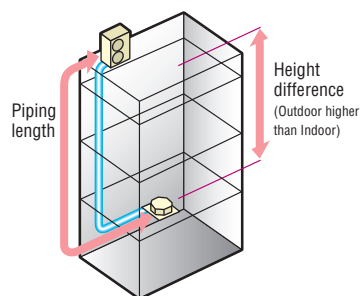
Please refer to our technical manual for installation conditions, operation range and heating/cooling capacities. (including 1Phase 220V)



Installation workability

Enhanced installation workability thanks to the extended pipe length – longest level in the industry and precharged refrigerant.

Point 1 Piping length – 100m (Hyper Inverter 4~6HP)



Hyper Inverter

HP	Piping length	Height difference
1.5~2.5	30m	20m
3	50m	30m
4~6	100m	30m

Micro Inverter

HP	Piping length	Height difference
4~6	50m	30m
8~10	70m	30m

Standard Inverter

HP	Piping length	Height difference
3~4	30m	20m

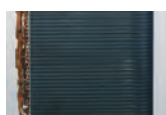
Point 2 Refrigerant precharged piping length extending to 30m

Refrigerant precharged piping length extends up to 30m. This eliminates the need to add refrigerant on site, which sets it free from trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly.

※ That of Hyper inverter 1.5~2.5HP & Standard inverter is up to 15m.

Point 3 Blue Fin (3~10HP)

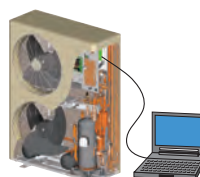
Due to application of blue coated fins (KS101) for the heat exchanger of new outdoor unit, corrosion resistance has been improved compared to current models.



Blue Fin

Point 4 Monitoring Function (All series)

Equipped with RS232C for connection directly to your PC monitoring and service tasks made simple with our service software ("Mente PC").



Point 5 Base heater kit (option)

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

CW-H-E1
applied for
FDC71VNX
FDC100~140VNX,VSX
FDC100~140VN,VS
FDC200/250VSA
FDC100VNP



Micro Inverter

Line up

HP	1.5	2	2.5	3	3.5	4	5	6	8	10
Micro Inverter	-	-	-	-	-	●	●	●	●	●



FDC100VN/VS (4.0HP)
FDC125VN/VS (5.0HP)
FDC140VN/VS (6.0HP)

Blue Fin



FDC200VSA (8.0HP)

Blue Fin



FDC250VSA (10.0HP)

Blue Fin

Tropical Usage Mode

Size reduction and high efficiency performance on the DC twin rotary compressors (Micro Inverter 4-6HP)

Employment of DC twin rotary compressor has enabled to utilize a high-speed range of up to 120 rps at the maximum to secure the required capacity.

Optimum compressor control has been realized by employing the vector control* and the starting current has been improved significantly compared with former models. Moreover, vibration has been reduced.



Former compressor



New model
DC twin rotary compressor

Reduction in height by 22.3%
Reduction in volume by 44.1%

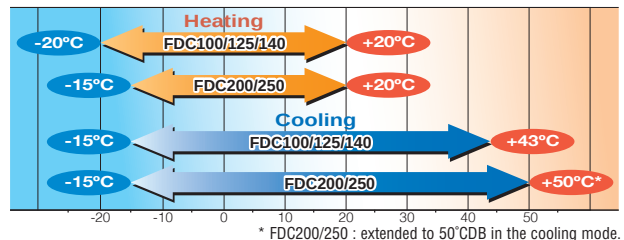
* Vector control means a technique to realize an optimum control by converting the current wave to a smooth sinusoidal waveform



Wide range of operation

Our new advanced technology has expanded the heating and cooling operation range.

This permits installation of the units under a low outdoor temperature conditions down to -15°C/-20°C in heating operation and -15°C in cooling operation.



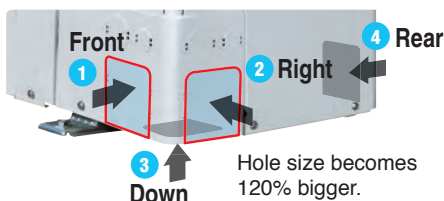
2 Layer Construction (Micro Inverter 10HP)

Thanks to control box structure with 2 layer construction using hinge connection, service and maintenance has been made much easier for inverter components.



Serviceability (Micro Inverter 10HP)

●Improved freedom of piping layout



●Four handles

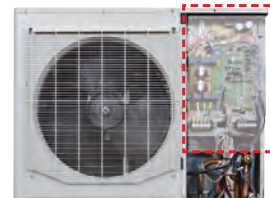


●Wire insertion holes for fall prevention



Located at the same level for easy transport and transfer.

●A transparent rain cover



Attached as a standard for easy maintenance.

●Fixing screws to service panel

Decreasing number of screws from 5 to 2, installation & service speed is improved.

Standard Inverter

Line up

HP	1.5	2	2.5	3	3.5	4	5	6	8	10
Standard Inverter	—	—	—	●	●	●	—	—	—	—



FDC71VNP (3.0HP)



FDC90VNP (3.5HP)



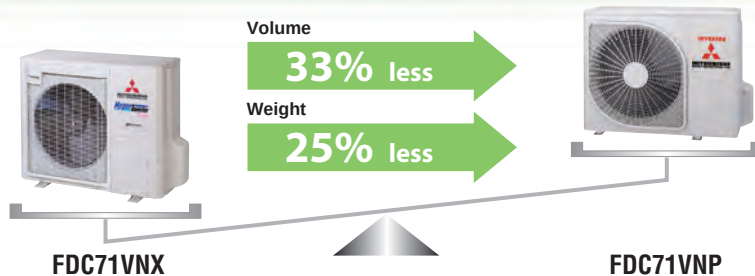
FDC100VNP (4.0HP)

Blue
Fin

NEW

Blue
Fin

Compact Design of outdoor units



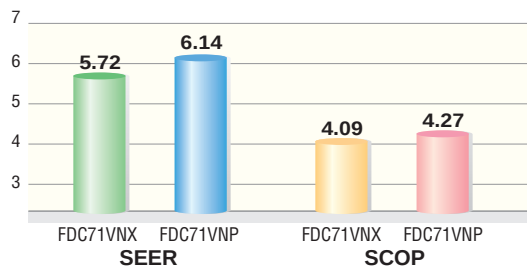
All outdoor units (Hyper, Micro, Standard)

Fits into elevators

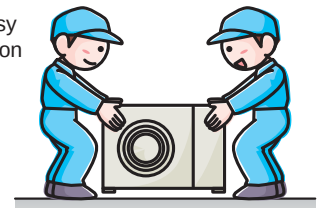


High SEER & SCOP (in case of indoor unit: FDT71VF1)

Though the nominal efficiency is lower than that of FDC71VNX (Hyper inverter), higher SEER & SCOP are achieved by optimizing control.

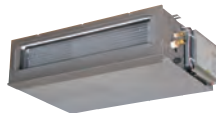


Easy
installation



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Type					Hyper Inverter					
					HP	1.5	2.0	2.5	3.0	4.0
					kW	4.0	5.0	6.0	7.1	10.0
					Btu/h	13,600	17,100	20,500	24,200	34,100
					kcal/h	3,440	4,300	5,160	6,100	8,600
CEILING CASSETTE	4way FDT 	P.10	Set	1Phase	FDT40ZMXVF	FDT50ZMXVF	FDT60ZMXVF	FDT71VNXVF1	FDT100VNXVF2	
				3Phase					FDT100VSXVF2	
		Indoor unit		FDT40VF	FDT50VF	FDT60VF	FDT71VF1	FDT100VF2		
		Outdoor unit	1Phase	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX		
			3Phase					FDC100VSX		
	4way compact (600 x 600mm) FDTC 	P.16	Set	1Phase	FDTC40ZMXVF	FDTC50ZMXVF	FDTC60ZMXVF			
Indoor unit			FDTC40VF	FDTC50VF	FDTC60VF					
Outdoor unit	1Phase		SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S					
DUCT CONNECTED	High Static pressure FDU 	P.20	Set	1Phase				FDU71VNXVF1	FDU100VNXVF2	
				3Phase					FDU100VSXVF2	
		Indoor unit					FDU71VF1	FDU100VF2		
		Outdoor unit	1Phase				FDC71VNX	FDC100VNX		
			3Phase					FDC100VSX		
	Low/Middle Static pressure FDUM 	P.25	Set	1Phase	FDUM40ZMXVF	FDUM50ZMXVF	FDUM60ZMXVF	FDUM71VNXVF1	FDUM100VNXVF2	
				3Phase					FDUM100VSXVF2	
			Indoor unit		FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2	
			Outdoor unit	1Phase	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX	
				3Phase					FDC100VSX	
CEILING SUSPENDED	FDE  	P.32	Set	1Phase	FDE40ZMXVG	FDE50ZMXVG	FDE60ZMXVG	FDE71VNXVG	FDE100VNXVG	
				3Phase					FDE100VSXVG	
		Indoor unit		FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG		
		Outdoor unit	1Phase	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX		
			3Phase					FDC100VSX		
WALL MOUNTED	SRK  	P.38	Set	1Phase						
			Indoor unit							
		Outdoor unit	1Phase							
FLOOR STANDING	FDF 	P.41	Set	1Phase				FDF71VNXVD1	FDF100VNXVD2	
				3Phase					FDF100VSXVD2	
		Indoor unit					FDF71VD1	FDF100VD2		
		Outdoor unit	1Phase				FDC71VNX	FDC100VNX		
			3Phase					FDC100VSX		

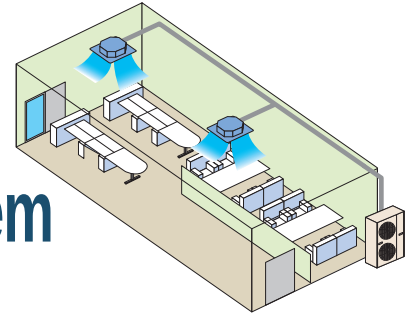
Capacity Range (Rated Cooling Capacity)

		<i>Micro Inverter</i>					<i>Standard Inverter</i>		
5.0	6.0	4.0	5.0	6.0	8.0	10.0	3.0	3.5	4.0
12.5	14.0	10.0	12.5	14.0	20.0	24.0	7.1	9.0	10.0
42,700	47,800	34,100	42,700	47,800	68,200	81,300	24,200	30,700	34,100
10,750	12,040	8,600	10,750	12,040	17,200	20,640	6,100	7,740	8,600
FDT125VNXVF	FDT140VNXVF	FDT100VNVF2	FDT125VNVF	FDT140VNVF			FDT71VNPVF1	FDT90VNPVF2	FDT100VNP1VF2
FDT125VSXVF	FDT140VSXVF	FDT100VSVF2	FDT125VSVF	FDT140VSVF					
FDT125VF	FDT140VF	FDT100VF2	FDT125VF	FDT140VF			FDT71VF1	FDT100VF2	FDT100VF2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
FDU125VNXVF	FDU140VNXVF	FDU100VNVF2	FDU125VNVF	FDU140VNVF			FDU71VNPVF1	FDU90VNPVF2	FDU100VNP1VF2
FDU125VSXVF	FDU140VSXVF	FDU100VSVF2	FDU125VSVF	FDU140VSVF	FDU200VSAVG*	FDU250VSAVG*			
FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF	FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS	FDC200VSA	FDC250VSA			
FDUM125VNXVF	FDUM140VNXVF	FDUM100VNVF2	FDUM125VNVF	FDUM140VNVF			FDUM71VNPVF1	FDUM90VNPVF2	FDUM100VNP1VF2
FDUM125VSXVF	FDUM140VSXVF	FDUM100VSVF2	FDUM125VSVF	FDUM140VSVF					
FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF			FDUM71VF1	FDUM100VF2	FDUM100VF2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
FDE125VNXVG	FDE140VNXVG	FDE100VNVG	FDE125VNVG	FDE140VNVG			FDE71VNPVG	FDE90VNPVG	FDE100VNP1VG
FDE125VSXVG	FDE140VSXVG	FDE100VSVG	FDE125VSVG	FDE140VSVG					
FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG			FDE71VG	FDE100VG	FDE100VG
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
							SRK71VNPZM		SRK100VNP1ZR
							SRK71ZM-S		SRK100ZR-S
							FDC71VNP		FDC100VNP
FDF125VNXVD	FDF140VNXVD	FDF100VNV D2	FDF125VNV D	FDF140VNV D			FDF71VNPVD1	FDF90VNPVD2	FDF100VNP1VD2
FDF125VSXVD	FDF140VSXVD	FDF100VSV D2	FDF125VSV D	FDF140VSV D					
FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD			FDF71VD1	FDF100VD2	FDF100VD2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					

* Tropical Usage Mode

MULTI SYSTEM

Up to Four indoor units can be connected to a single outdoor unit and simultaneously operated with a single remote control.



Twin / Triple / Double Twin Multi System

By referring to the following table for applicable indoor units, select the same models and capacities.

Applicable indoor units

Model		Capacity					
		40	50	60	71	100	125
4way FDT		●	●	●	●	●	●
4way compact (600 x 600mm) FDTc		●	●	●			
Low/Middle Static pressure FDUM		●	●	●	●	●	●
Ceiling Suspended FDE		●	●	●	●	●	●
Wall Mounted SRK			●	●		●	
Floor Standing FDF					●	●	●

Combination of indoor units

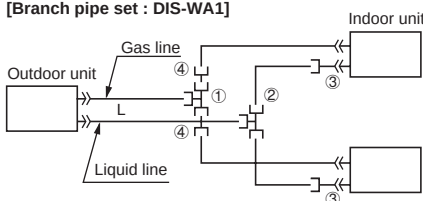
Outdoor Unit	Hyper Inverter				Micro Inverter				
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VN FDC100VS	FDC125VN FDC125VS	FDC140VN FDC140VS	FDC200VSA	FDC250VSA
Twin	40 + 40	50 + 50	60 + 60	71 + 71	50 + 50	60 + 60	71 + 71	100 + 100	125 + 125
Triple				50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	
Double Twin								50+50+50+50	60+60+60+60

Decision of piping specification

Diagrams below show the application as samples. For further information, refer to TECHNICAL MANUAL.

Twin type

Models FDC71VNX, FDC100~140VN/VS
[Branch pipe set : DIS-WA1]



(Example)

Item	Indoor unit combinations	Liquid pipe		Gas pipe	
		Main pipe	Branch pipe	Main pipe	Branch pipe
Model					
FDC71	40+40				
FDC100	50+50				
FDC125	60+60				
FDC140	71+71				
		ø9.52Xt0.8	ø9.52Xt0.8	ø15.88Xt1.0	ø12.7Xt0.8 ø15.88Xt1.0

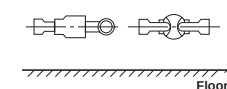
Notes (1) When 40-60 models of indoor units are applied to this combination, the reducer ③ supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size ø9.52mm from branch to indoor unit.
(2) The reducer ④ is for FDC71 and 100 models only.

Chart of shapes of branch piping parts (DIS-WA1)	Gas pipe		Liquid pipe		Reducer		Reducer	
	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol

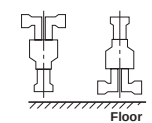
Notes (1) Symbol ① to ④ in the drawing shows the symbols of branch piping parts in the chart respectively.
(2) Branch piping should always be arranged to have level or perpendicular position.

The branch piping (both gas and liquid lines) should always be arranged to have a level or perpendicular position.

2-Way Branch

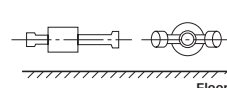


Mount — sections level with the floor.

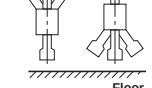


Mount — sections perpendicular to the floor.

3-Way Branch



Mount — sections level with the floor.

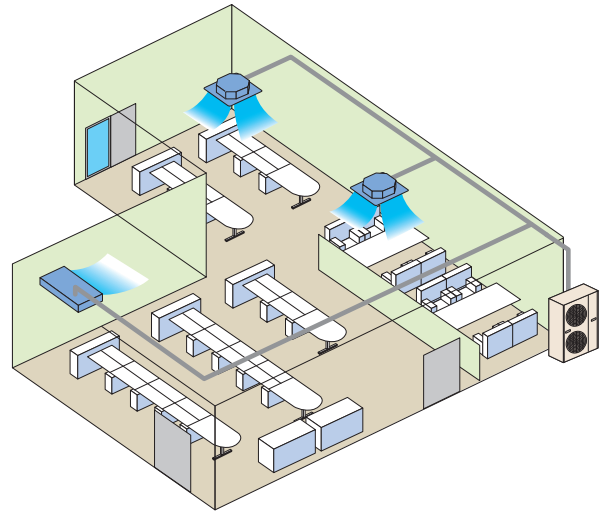


Mount — sections perpendicular to the floor.

Ideal for the installation in large area and L-shaped rooms, the V Multi System has an extensive degree of flexibility in the selection of indoor units. Specifically, the selection of indoor units with different capacities in different types can be made.

V Multi System

Different models and capacities can be selected.



Applicable indoor units

Model		Capacity					
		40	50	60	71	100	125
4way FDT		●	●	●	●	●	●
Ceiling Suspended FDE		●	●	●	●	●	●

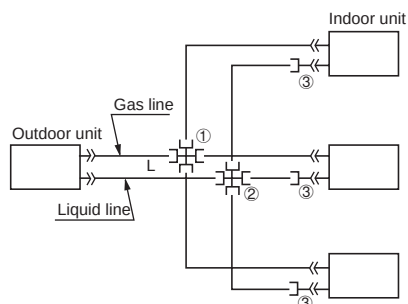
Combination of indoor units

Outdoor Unit	Hyper Inverter				Micro Inverter				
									
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VN FDC100VS	FDC125VN FDC125VS	FDC140VN FDC140VS	FDC200VSA	FDC250VSA
Twin	40 + 40	50 + 50	60 + 60 50 + 71	71 + 71	50 + 50	60 + 60 50 + 71	71 + 71	100 + 100 71 + 125	125 + 125
Triple				50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	60+60+125 71+71+100
Double Twin								50+50+50+50	60+60+60+60

Triple type

Model FDC140VN/VS
[Branch pipe set : DIS-TA1]

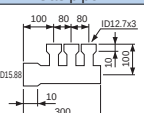
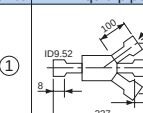
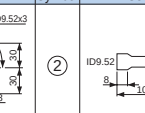
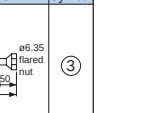
The indoor_outdoor piping length differences among indoor units are less than 3m.



(Example)

Model	Indoor unit combinations	Liquid pipe		Gas pipe	
		Main pipe	Branch pipe	Main pipe	Branch pipe
FDC140	50+50+50	ø9.52Xt0.8	ø9.52Xt0.8	ø15.88Xt1.0	ø12.7Xt0.8

Notes (1) The reducer ③ supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size ø9.52mm from branch to indoor unit.

Chart of shapes of branch piping parts (DIS-TA1)	Gas pipe		Symbol	Liquid pipe		Symbol	Reducer	Symbol
								
	①			②			③	

Notes (1) Symbol ① to ③ in the drawing shows the symbols of branch piping parts in the chart respectively.
(2) Branch piping should always be arranged to have level or perpendicular position.

CEILING CASSETTE -4way- FDT



FDT 40/50/60/71/100/125/140

Remote control (Option)

Wired



RC-EX1A



RC-E5



RCH-E3



RCN-T-36W-E

Wireless

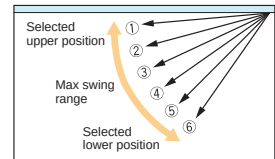
Point 1 Individual flap control system

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



Point 2 Flap control

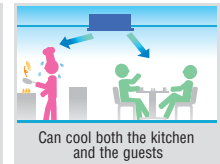
The flap can swing within the range of upper and lower flap position selected with wired remote control.



For person who is far from the indoor unit



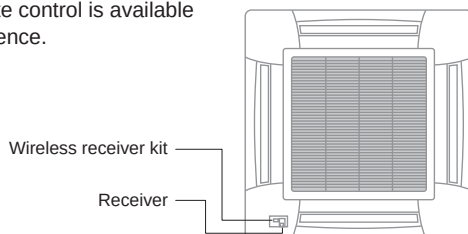
For both persons who are feeling hot or cold



Can cool both the kitchen and the guests

Point 3 Wireless remote control

A wireless remote control is available for your convenience.



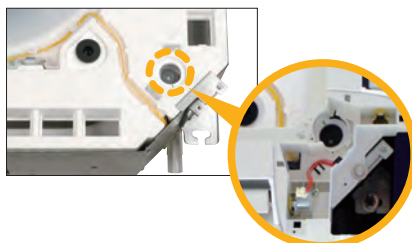
Point 4 Arrangement of installation balance of indoor unit

Checking from access ports with detachable covers at each corner, arrangement of installation balance of indoor unit can be available without removing a panel. Workability is improved and time of installation is reduced.



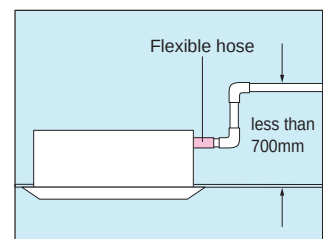
Point 5 Easy checking of drain pan

Easy checking of drain pan condition is available by removing corner lid only. Due to new design changing fan motor is available without removing a panel.



Point 6 700mm Drain Pump

Drain can be discharged upwards by 700mm from the ceiling surface. It allows a piping layout with a high degree of freedom. Depending on the installation location and 260mm flexible hose as a standard equipment supports easy workability.



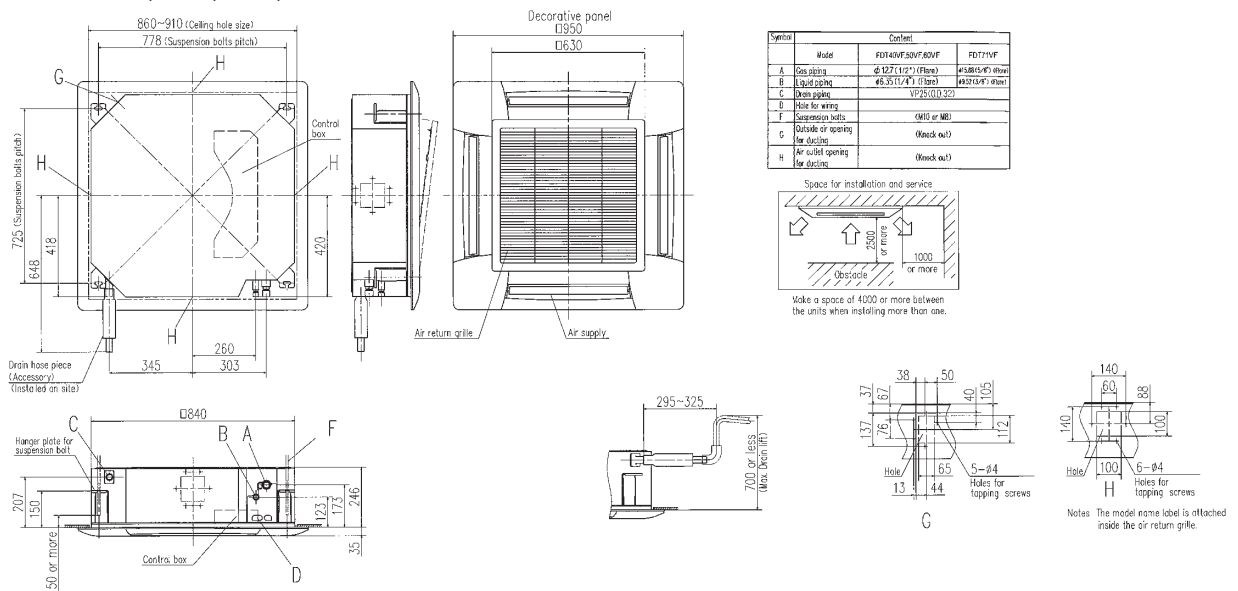
OUTDOOR UNIT

	Hyper Inverter			Micro Inverter		
SRC • FDC	40~60ZMX	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model						
Chargeless	15m	30m		30m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

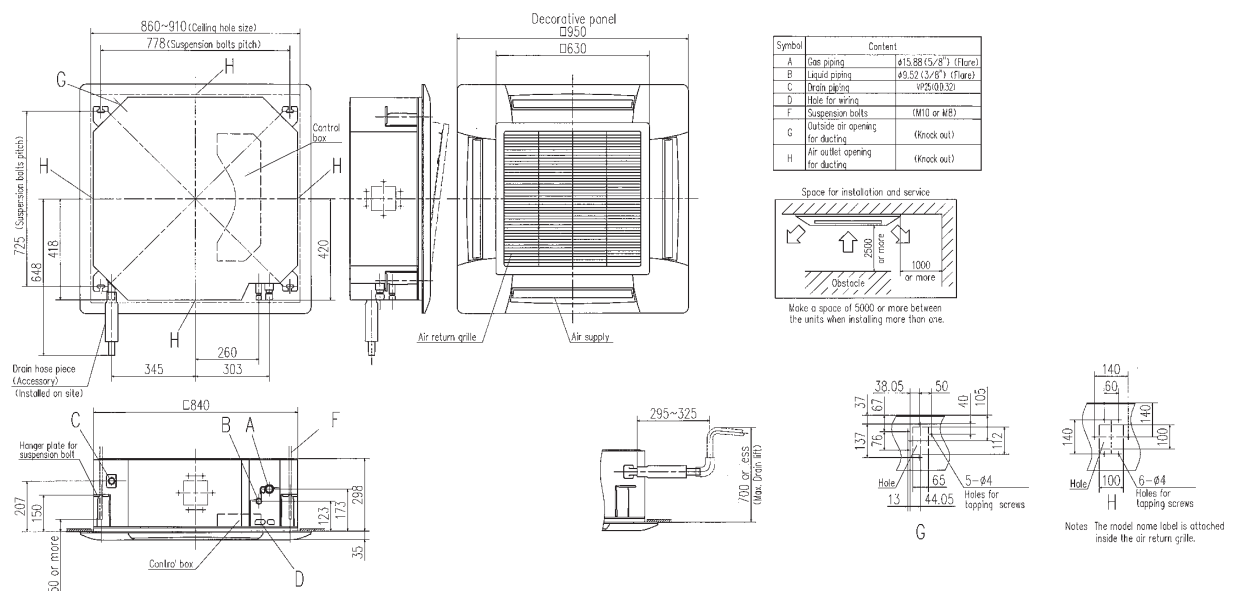
	Standard Inverter		
FDC	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm)

Models FDT40VF,50VF,60VF,71VF1



Models FDT100VF1,100VF2,125VF,140VF



SPECIFICATIONS

			Hyper Inverter			
Set model name			FDT40ZMXVF	FDT50ZMXVF	FDT60ZMXVF	FDT71VNXVF1
Indoor unit			FDT40VF	FDT50VF	FDT60VF	FDT71VF1
Outdoor unit			SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW 4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)	7.1 (3.2 ~ 8.0)
Nominal heating capacity (Min~Max)			kW 4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 7.1)	8.0 (3.6 ~ 9.0)
Power consumption	Cooling/Heating	kW	0.93 / 1.06	1.29 / 1.29	1.52 / 1.70	2.04 / 1.94
EER/COP	Cooling/Heating		4.30 / 4.25	3.88 / 4.19	3.68 / 3.94	3.48 / 4.12
Inrush current		A	5	5	5	5
Max. current			12	15	15	17
Sound power level*1	Indoor	Cooling/Heating	55 / 55	55 / 55	60 / 60	64 / 64
	Outdoor	Cooling/Heating	63 / 63	63 / 63	64 / 64	66 / 66
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31
		Heating (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31
	Outdoor	Cooling/Heating	50 / 50	54 / 50	54 / 54	51 / 48
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17
		Heating (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17
	Outdoor	Cooling/Heating	36 / 33	40 / 33	41.5 / 39	60 / 50
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 246 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		640 x 800(+71) x 290 750 x 880(+88) x 340			
Net weight	Indoor		27.5(Unit:22 Panel:5.5)			29.5(Unit:24 Panel:5.5)
	Outdoor		45			60
Ref.piping size	Liquid/Gas	ømm	6.35(1/8") / 12.7(1/2")			9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30			Max. 50
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20			Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15~43*3			
	Heating		-15~20			-20~20
Panel			T-PSA-3BW-E			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E			

				HyperInverter					
Set model name				FDT100VNXVF2	FDT125VNXVF	FDT140VNXVF	FDT100VSXVF2	FDT125VSXVF	FDT140VSXVF
Indoor unit				FDT100VF2	FDT125VF	FDT140VF	FDT100VF2	FDT125VF	FDT140VF
Outdoor unit				FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption	Cooling/Heating		kW	2.50 / 2.58	3.28 / 3.43	4.19 / 4.20	2.50 / 2.58	3.28 / 3.43	4.19 / 4.20
EER/COP	Cooling/Heating			4.00 / 4.34	3.81 / 4.08	3.34 / 3.81	4.00 / 4.34	3.81 / 4.08	3.34 / 3.81
Inrush current			A	5	5	5	5	5	5
Max. current				24	26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	68 / 68	68 / 68	65 / 65	68 / 68	68 / 68
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38
		Heating (Hi/Me/Lo)		40 / 37 / 35	42 / 40 / 37	43 / 41 / 38	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
		Heating (Hi/Me/Lo)		27 / 24 / 20	30 / 27 / 23	30 / 27 / 23	27 / 24 / 20	30 / 27 / 23	30 / 27 / 23
	Outdoor	Cooling/Heating		27 / 24 / 20	30 / 27 / 23	30 / 27 / 23	27 / 24 / 20	30 / 27 / 23	30 / 27 / 23
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950					
	Outdoor			1,300 x 970 x 370					
Net weight	Indoor		kg	32.5(Unit:27 Panel:5.5)					
	Outdoor			105					
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.100					
Vertical height differences			m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~43*3					
	Heating			-20~20					
Panel				T-PSA-3BW-E					
Air filter, Q'ty				Pocket plastic net x 1(Washable)					
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E					

※1 Powerful-Hi can be selected.

Sound pressure level: 40/50ZMXVF 39dB(A), 60ZMXVF 46dB(A), 71VNXVF1 46dB(A), 100VN(S)XVF2 51dB(A), 125/140VN(S)XVF 51dB(A)

Air flow: 40/50ZMXVF 20m³/min, 60ZMXVF 28m³/min, 71VNXVF1 28m³/min, 100VN(S)XVF2 37m³/min, 125/140VN(S)XVF 37m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

			HyperInverter					
Set model name			FDT71VNXPFV	FDT100VNXPFV	FDT125VNXPFV	FDT140VNXPFV1	FDT140VNXTVF	
			Twin				Triple	
Indoor unit			FDT40VF	FDT50VF	FDT60VF	FDT71VF1	FDT50VF	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)			kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)	
Power consumption		Cooling/Heating	kW 1.85 / 1.99	2.56 / 2.66	3.06 / 3.22	3.88 / 3.70	3.88 / 3.76	
EER/COP		Cooling/Heating	3.84 / 4.02	3.91 / 4.21	4.08 / 4.35	3.61 / 4.32	3.61 / 4.26	
Inrush current		A	5	5	5	5	5	
Max. current			17	24	26	26	26	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	55 / 55	55 / 55	60 / 60	64 / 64	55 / 55
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30
	Indoor*2	Heating (Hi/Me/Lo)		33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30
Air flow ※2	Outdoor	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
		Cooling (Hi/Me/Lo)		18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
	Outdoor	Heating (Hi/Me/Lo)		18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
		Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions		HeightxWidthxDepth	mm	Unit: 246 x 840 x 840 Panel: 35 x 950 x 950				
				750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor		kg	27.5(Unit:22 Panel:5.5)		29.5(Unit:24 Panel:5.5)		27.5(Unit:22 Panel:5.5)
	Outdoor			60	105			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max. 50	Max. 100			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range		Cooling	°C	-15~43*3				
		Heating		-20~20				
Panel			T-PSA-3BW-E					
Air filter, Q'ty			Pocket plastic net x 1(Washable)					
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E					

The values are for simultaneous Multi operation.

			HyperInverter			
Set model name			FDT100VSXPVF	FDT125VSXPVF	FDT140VSXPVF1	FDT140VSXTVF
			Twin			Triple
Indoor unit			FDT50VF	FDT60VF	FDT71VF1	FDT50VF
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating kW	2.56 / 2.66	3.06 / 3.22	3.88 / 3.70	3.88 / 3.76
EER/COP		Cooling/Heating	3.91 / 4.21	4.08 / 4.35	3.61 / 4.32	3.61 / 4.26
Inrush current		A	5	5	5	5
Max. current			15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	55 / 55	60 / 60	64 / 64	55 / 55
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30
		Heating (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30
Air flow ※2	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	49 / 52
		Indoor*2	Cooling (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17
		Heating (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 246 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor			1,300 x 970 x 370		
Net weight	Indoor		kg	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)	27.5(Unit:22 Panel:5.5)
	Outdoor			105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.100		
Vertical height differences			Outdoor is higher/lower	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*3			
	Heating		-20~20			
Panel			T-PSA-3BW-E			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E			

※2 Powerful-Hi can be selected.

Sound pressure level: 71VNXPVF 39dB(A), 100VN(S)XPVF 39dB(A), 125VN(S)XPVF 46dB(A), 140VN(S)XPVF1 46dB(A), 140VN(S)XTVF 39dB(A)

Air flow: 71VNXPVF 20m³/min, 100VN(S)XPVF 20m³/min, 125VN(S)XPVF 28m³/min, 140VN(S)XPVF1 28m³/min, 140VN(S)XTVF 20m³/min

SPECIFICATIONS

			Micro Inverter							
Set model name			FDT100VNVF2	FDT125VNVF	FDT140VNVF	FDT100VSVF2	FDT125VSVF	FDT140VSVF		
Indoor unit			FDT100VF2	FDT125VF	FDT140VF	FDT100VF2	FDT125VF	FDT140VF		
Outdoor unit			FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS		
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	
Power consumption	Cooling/Heating	kW	2.76 / 2.74	4.05 / 3.77	4.98 / 4.57	2.76 / 2.74	4.05 / 3.77	4.98 / 4.57		
EER/COP	Cooling/Heating		3.62 / 4.09	3.09 / 3.71	2.81 / 3.50	3.62 / 4.09	3.09 / 3.71	2.81 / 3.50		
Inrush current		A	5	5	5	5	5	5		
Max. current			24	24	24	15	15	15		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	68 / 68	68 / 68	65 / 65	68 / 68	68 / 68	
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		m³/min	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38
		Heating (Hi/Me/Lo)			40 / 37 / 35	42 / 40 / 37	43 / 41 / 38	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)			49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51
		Heating (Hi/Me/Lo)			27 / 24 / 20	30 / 27 / 23	30 / 27 / 23	27 / 24 / 20	30 / 27 / 23	30 / 27 / 23
	Outdoor	Cooling/Heating	27 / 24 / 20		30 / 27 / 23	30 / 27 / 23	27 / 24 / 20	30 / 27 / 23	30 / 27 / 23	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm		Unit: 298 x 840 x 840 Panel: 35 x 950 x 950					
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	32.5(Unit:27 Panel:5.5)						
	Outdoor			81						
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")							
Refrigerant line (one way) length		m	Max.50							
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15							
Outdoor operating temperature range	Cooling	°C	-15~43*3							
	Heating		-20~20							
Panel			T-PSA-3BW-E							
Air filter, Q'ty			Pocket plastic net x 1(Washable)							
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E							

The values are for simultaneous Multi operation.

			Micro Inverter																					
Set model name			FDT100VNPVF		FDT125VNPVF		FDT140VNPVF1		FDT140VNTVF		FDT100VSPVF		FDT125VSPVF		FDT140VSPVF1									
			Twin				Triple		Twin															
Indoor unit			FDT50VF		FDT60VF		FDT71VF1		FDT50VF		FDT50VF		FDT60VF		FDT71VF1									
Outdoor unit			FDC100VN		FDC125VN		FDC140VN		FDC140VN		FDC100VS		FDC125VS		FDC140VS									
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz								3 Phase 380-415V, 50Hz / 380V, 60Hz													
Nominal cooling capacity (Min~Max)			kW		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 14.5)		14.0 (5.0 ~ 14.5)		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 14.5)							
Nominal heating capacity (Min~Max)			kW		11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 16.0)		16.0 (4.0 ~ 16.5)		16.0 (4.0 ~ 16.5)		11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 16.0)		16.0 (4.0 ~ 16.5)							
Power consumption			Cooling/Heating		kW		2.94 / 3.09		3.95 / 3.70		4.51 / 4.58		4.65 / 4.63		2.94 / 3.09		3.95 / 3.70		4.51 / 4.58					
EER/COP			Cooling/Heating				3.40 / 3.62		3.16 / 3.78		3.10 / 3.49		3.01 / 3.46		3.40 / 3.62		3.16 / 3.78		3.10 / 3.49					
Inrush current					A		5		5		5		5		5		5		5					
Max. current							24		24		24		24		15		15		15					
Sound power level* ¹			Indoor* ²		Cooling/Heating		dB(A)		55 / 55		60 / 60		64 / 64		55 / 55		55 / 55		60 / 60		64 / 64			
			Outdoor		Cooling/Heating				70 / 70		72 / 72		73 / 73		73 / 73		70 / 70		72 / 72		73 / 73			
Sound pressure level* ¹ ※ ¹			Indoor* ²		Cooling (Hi/Me/Lo)		dB(A)		33 / 31 / 30		33 / 31 / 30		35 / 33 / 31		33 / 31 / 30		33 / 31 / 30		33 / 31 / 30		35 / 33 / 31			
					Heating (Hi/Me/Lo)				33 / 31 / 30		33 / 31 / 30		35 / 33 / 31		33 / 31 / 30		33 / 31 / 30		33 / 31 / 30		35 / 33 / 31			
			Outdoor		Cooling/Heating				49 / 49		50 / 51		51 / 51		51 / 51		49 / 49		50 / 51		51 / 51			
Air flow ※ ¹			Indoor* ²		Cooling (Hi/Me/Lo)		m³/min		18 / 16 / 14		18 / 16 / 14		21 / 19 / 17		18 / 16 / 14		18 / 16 / 14		18 / 16 / 14		21 / 19 / 17			
					Heating (Hi/Me/Lo)				18 / 16 / 14		18 / 16 / 14		21 / 19 / 17		18 / 16 / 14		18 / 16 / 14		18 / 16 / 14		21 / 19 / 17			
			Outdoor		Cooling/Heating				75 / 73		75 / 73		75 / 73		75 / 73		75 / 73		75 / 73		75 / 73			
Exterior dimensions			Indoor		HeightxWidthxDepth		mm		Unit: 246 x 840 x 840 Panel: 35 x 950 x 950															
			Outdoor						845 x 970 x 370															
Net weight			Indoor				kg		27.5(Unit:22 Panel:5.5)				29.5(Unit:24 Panel:5.5)				27.5(Unit:22 Panel:5.5)				29.5(Unit:24 Panel:5.5)			
			Outdoor						81								83							
Ref.piping size			Liquid/Gas		ømm				9.52(3/8") / 15.88(5/8")															
Refrigerant line (one way) length					m				Max.50															
Vertical height differences					Outdoor is higher/lower				Max.30 / Max.15															
Outdoor operating temperature range			Cooling		°C				-15~43* ³															
			Heating						-20~20															
Panel									T-PSA-3BW-E															
Air filter, Q'ty									Pocket plastic net x 1(Washable)															
Remote control (option)									wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E															

※1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)VF2 51dB(A), 125/140VN(S)VF 51dB(A), 100VN(S)PVF 39dB(A), 125VN(S)PVF 46dB(A), 140VN(S)PVF1 46dB(A), 140VNTVF 39dB(A)
Air flow: 100VN(S)VF2 37m³/min, 125/140VN(S)VF 37m³/min, 100VN(S)PVF 20m³/min, 125VN(S)PVF 28m³/min, 140VN(S)PVF1 28m³/min, 140VNTVF 20m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter					
Set model name				FDT200VSAPVF2	FDT250VSAPVF	FDT140VSTVF	FDT200VSATVF1	FDT200VSADVF	FDT250VSADVF
				Twin		Triple		Double Twin	
Indoor unit				FDT100VF2	FDT125VF	FDT50VF	FDT71VF1	FDT50VF	FDT60VF
Outdoor unit				FDC200VSA	FDC250VSA	FDC140VS	FDC200VSA	FDC200VSA	FDC250VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min-Max)			kW	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	14.0 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min-Max)			kW	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	16.0 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption	Cooling/Heating		kW	6.25 / 6.02	8.36 / 7.15	4.65 / 4.63	6.01 / 5.76	6.26 / 6.15	7.42 / 6.83
EER/COP	Cooling/Heating			3.04 / 3.72	2.87 / 3.78	3.01 / 3.46	3.16 / 3.89	3.04 / 3.64	3.23 / 3.95
Inrush current			A	5	5	5	5	5	5
Max. current				20	21	15	20	20	21
Sound power level* ¹	Indoor* ²	Cooling/Heating	dB(A)	65 / 65	68 / 68	55 / 55	64 / 64	55 / 55	60 / 60
	Outdoor	Cooling/Heating		72 / 74	73 / 75	73 / 73	72 / 74	72 / 74	73 / 75
Sound pressure level* ¹ ※ ²	Indoor* ²	Cooling (Hi/Me/Lo)		40 / 37 / 35	42 / 40 / 37	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30	33 / 31 / 30
		Heating (Hi/Me/Lo)		40 / 37 / 35	42 / 40 / 37	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30	33 / 31 / 30
Air flow ※ ²	Outdoor	Cooling/Heating		58 / 59	59 / 62	51 / 51	58 / 59	58 / 59	59 / 62
		Cooling (Hi/Me/Lo)		27 / 24 / 20	30 / 27 / 23	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14	18 / 16 / 14
		Heating (Hi/Me/Lo)		27 / 24 / 20	30 / 27 / 23	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14	18 / 16 / 14
				Cooling/Heating	135 / 135	143 / 151	75 / 73	135 / 135	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		Unit: 246 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370		1,505 x 970 x 370
Net weight	Indoor		kg	32.5(Unit:27 Panel:5.5)		27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)
	Outdoor			115	143	83	115		143
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.70		Max.50	Max.70		
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling		°C	-15~50* ³		-15~43* ³		-15~50* ³	
	Heating			-15~20		-20~20		-15~20	
Panel				T-PSA-3BW-E					
Air filter, Q'ty				Pocket plastic net x 1(Washable)					
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E					

			Standard Inverter		
Set model name			FDT71VNPVF1	FDT90VNPVF2	FDT100VNP1VF2
Indoor unit			FDT71VF1	FDT100VF2	FDT100VF2
Outdoor unit			FDC71VNP	FDC90VNP	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW 7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption		Cooling/Heating	kW 2.50 / 1.90	2.67 / 2.19	2.76 / 2.84
EER/COP		Cooling/Heating	2.84 / 3.74	3.37 / 4.11	3.62 / 4.52
Inrush current			5	5	5
Max. current			14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 69
Sound pressure level*1 ※2	Indoor	Cooling (Hi/Me/Lo)		35 / 33 / 31	40 / 37 / 35
	Indoor	Heating (Hi/Me/Lo)		35 / 33 / 31	40 / 37 / 35
Air flow ※2	Outdoor	Cooling/Heating		54 / 54	57 / 55
		Cooling (Hi/Me/Lo)		21 / 19 / 17	27 / 24 / 20
	Indoor	Heating (Hi/Me/Lo)		21 / 19 / 17	27 / 24 / 20
		Outdoor		Cooling/Heating	36 / 36
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 246 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		kg	29.5 (Unit: 24 Panel: 5.5)	
	Outdoor			45	57
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.30	
Vertical height differences			m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling		°C	-15~46*3	
	Heating			-15~20	
Panel			T-PSA-3BW-E		
Air filter, Q'ty			Pocket Plastic net x1(Washable)		
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E		

※2 Powerful-Hi can be selected.

Sound pressure level : 200VSAPVF2 51dB(A), 250VSAPVF 51dB(A), 140VSTVF 39dB(A), 200VSATVF1 46dB(A), 200VSADVF 39dB(A), 250VSADVF 46dB(A), 71VNPVF1 46dB(A), 90VNPVF2 51dB(A), 100VNP1VF2 51dB(A)
 Air flow : 200VSAPVF2 37m³/min, 250VSAPVF 37m³/min, 140VSTVF 20m³/min, 200VSATVF1 28m³/min, 200VSADVF 20m³/min, 250VSADVF 28m³/min, 71VNPVF1 28m³/min, 90VNPVF2 37m³/min, 100VNP1VF2 37m³/min

CEILING CASSETTE -4way Compact (600 X 600mm)-

FDTC



Fits into standard
600 x 600 ceiling



FDTC 40/50/60

Remote control (Option)

Wired

Wireless



RC-EX1A



RC-E5



RCH-E3



RCN-TC-24W-ER

Point
1

Individual flap control system

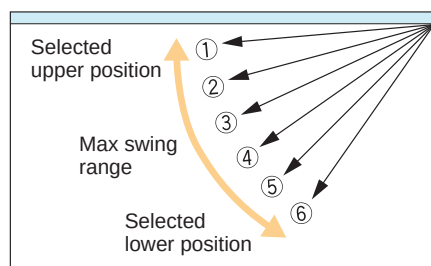
According to room temperature conditions, four directions of air flow can be controlled individually by following Flap control system. Individual flap control is available even after installation.



Point
2

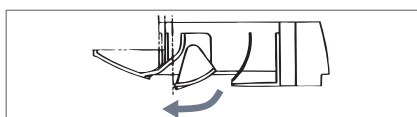
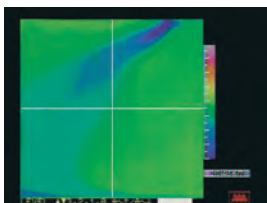
Flap control

The flap can swing within the range of upper and lower flap position selected with wired remote control.



Point
3

"CLEARER" Air Flow



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

Point
4

Installation Workability



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

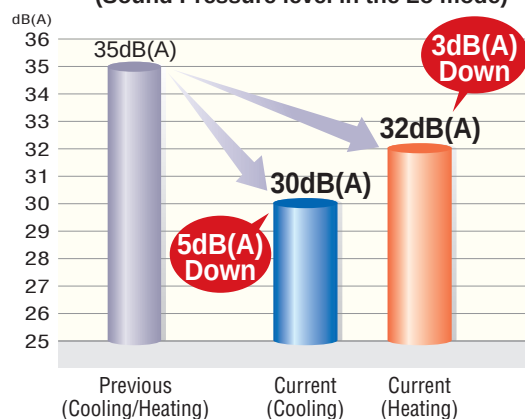


wireless
remote control
RCN-TC-24W-ER

Point
5

Quiet operation

(Sound Pressure level in the Lo mode)



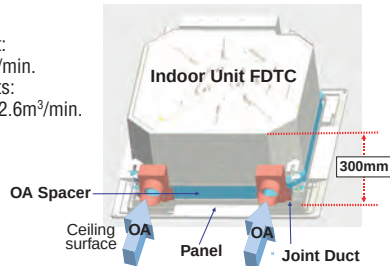
Point
6

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 inside.

Using 1 joint duct:
OA up to 1.3m³/min.
Using 2 joint ducts:
OA from 1.3 to 2.6m³/min.

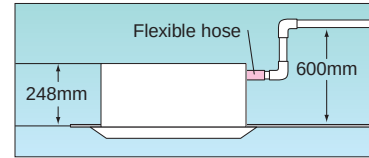


Point
7

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.



Point
8

Arrangement of installation balance of indoor unit

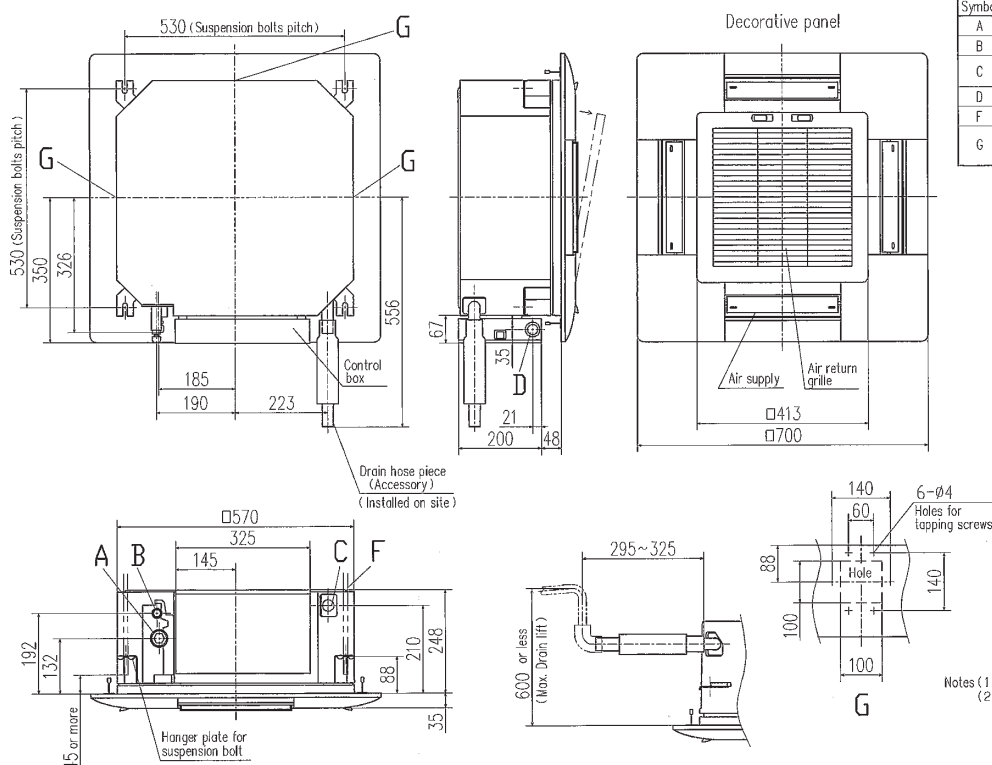
Checking from access ports with detachable covers at each corner, arrangement of installation balance of indoor unit can be available without removing a panel. Workability is improved and time of installation is reduced.



OUTDOOR UNIT

SRC • FDC	Hyper Inverter			Micro Inverter		
	40~60ZMX	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model						
Chargeless	15m	30m		30m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

DIMENSIONS (Unit:mm)



Notes (1) The model name label is attached on the control box lid.
(2) This unit is designed for 2x2 grid ceiling.
If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection port on the control box side.

SPECIFICATIONS

				Hyper Inverter		
Set model name				FDTC40ZMXVF	FDTC50ZMXVF	FDTC60ZMXVF
Indoor unit				FDTC40VF	FDTC50VF	FDTC60VF
Outdoor unit				SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW		4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)
Nominal heating capacity (Min~Max)		kW		4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 6.7)
Power consumption	Cooling/Heating	kW		1.04 / 1.10	1.56 / 1.45	1.99 / 2.07
EER/COP	Cooling/Heating			3.85 / 4.09	3.21 / 3.72	2.81 / 3.24
Inrush current		A		5	5	5
Max. current				12	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		63 / 63	63 / 63	64 / 64
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		42 / 36 / 30	42 / 36 / 30	46 / 39 / 30
		Heating (Hi/Me/Lo)		42 / 36 / 32	42 / 36 / 32	46 / 39 / 32
	Outdoor	Cooling/Heating		50 / 50	54 / 50	54 / 54
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7
		Heating (Hi/Me/Lo)		11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8
	Outdoor	Cooling/Heating		36 / 33	40 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700		
	Outdoor			640 x 800(+71) x 290		
Net weight	Indoor		kg	18.5(Unit:15 Panel:3.5)		
	Outdoor			45		
Ref.piping size	Liquid/Gas	ømm		6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m		Max.30		
Vertical height differences	Outdoor is higher/lower	m		Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°C		-15~43*3		
	Heating			-15~20		
Panel				TC-PSA-25W-E		
Air filter, Q'ty				Pocket plastic net x 1(Washable)		
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-TC-24W-ER		

The values are for simultaneous Multi operation.

			Hyper Inverter							
Set model name				FDTC71VNXPVF	FDTC100VNXPVF	FDTC125VNXPVF	FDTC140VNXTVF	FDTC100VSPVF	FDTC125VSPVF	FDTC140VSTVF
				Twin			Triple	Twin		Triple
Indoor unit				FDTC40VF	FDTC50VF	FDTC60VF	FDTC50VF	FDTC50VF	FDTC60VF	FDTC50VF
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW		7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW		8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption	Cooling/Heating	kW		2.04 / 2.21	3.18 / 3.20	4.10 / 4.10	4.34 / 4.34	3.18 / 3.20	4.10 / 4.10	4.34 / 4.34
EER/COP	Cooling/Heating			3.48 / 3.62	3.14 / 3.50	3.05 / 3.41	3.23 / 3.69	3.14 / 3.50	3.05 / 3.41	3.23 / 3.69
Inrush current			A	5	5	5	5	5	5	5
Max. current				17	24	26	26	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)		42 / 36 / 30	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30
		Heating (Hi/Me/Lo)		42 / 36 / 32	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo)	m³/min	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7
		Heating (Hi/Me/Lo)		11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700						
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370					
	Indoor			18.5(Unit:15 Panel:3.5)						
Net weight	Indoor		kg	18.5(Unit:15 Panel:3.5)						
	Outdoor			60	105					
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length		m		Max.50	Max.100					
Vertical height differences	Outdoor is higher/lower	m		Max.30 / Max.15						
Outdoor operating temperature range	Cooling	°C		-15~43*3						
	Heating		-20~20							
Panel				TC-PSA-25W-E						
Air filter, Q'ty				Pocket plastic net x 1(Washable)						
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-TC-24W-ER						

※1 Powerful-Hi can be selected.

Sound pressure level: 40/50/60ZMXVF 47dB(A), 71VNXPVF 47dB(A), 100/125VN(S)XPVF 47dB(A), 140VN(S)XTVF 47dB(A)

Air flow: 40/50/60ZMXVF 13.5m³/min, 71VNXPVF 13.5m³/min, 100/125VN(S)XPVF 13.5m³/min, 140VN(S)XTVF 13.5m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter		
Set model name			FDTCT100VNPVF	FDTCT125VNPVF	FDTCT140VNTVF
			Twin		Triple
Indoor unit			FDTCT50VF	FDTCT60VF	FDTCT50VF
Outdoor unit			FDC100VN	FDC125VN	FDC140VN
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW		10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)	kW		11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)
Power consumption	Cooling/Heating	kW	3.25 / 3.26	5.35 / 4.62	4.64 / 4.52
EER/COP	Cooling/Heating		3.08 / 3.44	2.34 / 3.03	3.02 / 3.54
Inrush current		A	5	5	5
Max. current			24	24	24
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor		70 / 70	72 / 72	73 / 73
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30
	Indoor*2	Heating (Hi/Me/Lo)	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32
Air flow ※2	Outdoor	Cooling/Heating	49 / 49	50 / 51	51 / 51
	Indoor*2	Cooling (Hi/Me/Lo)	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7
	Indoor*2	Heating (Hi/Me/Lo)	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		18.5(Unit:15 Panel:3.5)		
	Outdoor		81		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*3		
	Heating		-20~20		
Panel			TC-PSA-25W-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-TC-24W-ER		

The values are for simultaneous Multi operation.

			Micro Inverter				
Set model name			FDTCT100VSPVF	FDTCT125VSPVF	FDTCT140VSTVF	FDTCT200VSADVF	FDTCT250VSADVF
			Twin		Triple	Double Twin	
Indoor unit			FDTCT50VF	FDTCT60VF	FDTCT50VF	FDTCT50VF	FDTCT60VF
Outdoor unit			FDC100VS	FDC125VS	FDC140VS	FDC200VSA	FDC250VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min~Max)		kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption		Cooling/Heating kW	3.25 / 3.26	5.35 / 4.62	4.64 / 4.52	6.95 / 6.98	11.10 / 9.66
EER/COP		Cooling/Heating	3.08 / 3.44	2.34 / 3.03	3.02 / 3.54	2.73 / 3.21	2.16 / 2.80
Inrush current		A	5	5	5	5	5
Max. current			15	15	15	20	21
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	70 / 70	72 / 72	73 / 73	72 / 74	75 / 75
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	42 / 36 / 30 42 / 36 / 32	46 / 39 / 30 46 / 39 / 32	42 / 36 / 30 42 / 36 / 32	42 / 36 / 30 42 / 36 / 32	46 / 39 / 30 46 / 39 / 32
	Outdoor	Cooling/Heating	49 / 49	50 / 51	51 / 51	58 / 59	61 / 62
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	11.5 / 9 / 7 11.5 / 9 / 8	13.5 / 10 / 7 13.5 / 10 / 8	11.5 / 9 / 7 11.5 / 9 / 8	11.5 / 9 / 7 11.5 / 9 / 8	13.5 / 10 / 7 13.5 / 10 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700				
	Outdoor		845 x 970 x 370			1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		18.5(Unit:15 Panel:3.5)				
	Outdoor		83			115	143
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length		m	Max.50			Max.70	
Vertical height differences		Outdoor is higher/lower m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*3			-15~50*3	
	Heating		-20~20			-15~20	
Panel			TC-PSA-25W-E				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-TC-24W-ER				

※2 Powerful-Hi can be selected.

Sound pressure level: 100/125VN(S)PVF 47dB(A), 140VN(S)TVF 47dB(A), 200/250VSADVF 47dB(A)

Air flow: 100/125VN(S)PVF 13.5m³/min, 140VN(S)TVF 13.5m³/min, 200/250VSADVF 13.5m³/min

DUCT CONNECTED -High Static pressure- FDU



FDU 71/100/125/140



FDU 200/250
Tropical Usage Mode

Remote control (Option)

Wired

Wireless



RC-EX1A



RC-E5



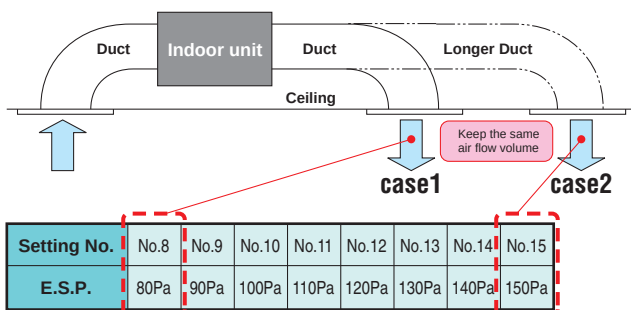
RCH-E3



RCN-KIT3-E

Point
1

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



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

<Expansion of external static pressure range>

Previous 10~130Pa → Current 10~200Pa

You can set External Static Pressure (E.S.P.) by method of manual setting on remote control. Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.

E.S.P. button

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



RC-E5

Point
2

Reduction of sound pressure level

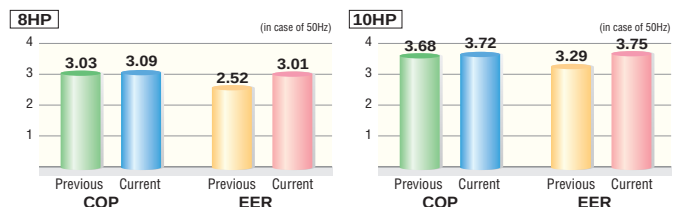
Thanks to use of DC fan motor, fan steps increase from two to four and quiet operation is achieved.(FDU200/250)

	Previous	Current	Lo mode
FDU71	37	→ 25	12dB(A) less!!
FDU100	38	→ 30	8dB(A) less!!
FDU200	51	→ 45	6dB(A) less!!

Point
3

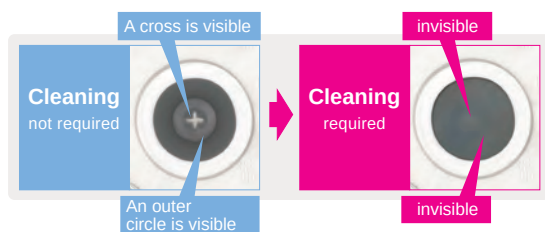
High efficiency

Energy efficiency is improved by use of DC fan motor & high efficient heat exchanger.



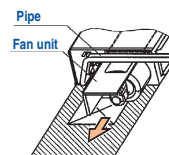
Point 4 Transparent inspection window

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



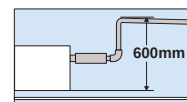
Point 5 Improvement of the serviceability

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.



Point 6 Enhanced installation workability

600mm Drain Pump is mounted in FDU71/100/125/140. The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



Round duct adapter

In case of requirements of round duct adapter, please access the followings for details.



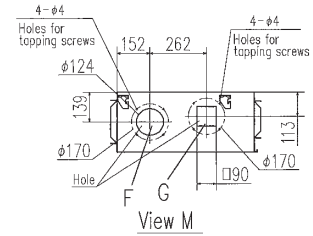
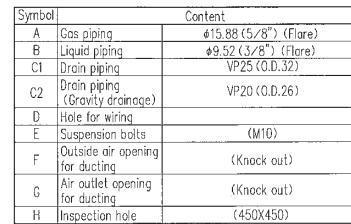
Company : AIRZONE
e-mail : jmoral@altracorporacion.es
tel : +34-902-400-445

OUTDOOR UNIT

Hyper Inverter				Micro Inverter		
SRC•FDC	40~60ZMX	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model						
Chargeless	15m	30m		30m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

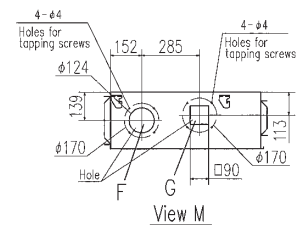
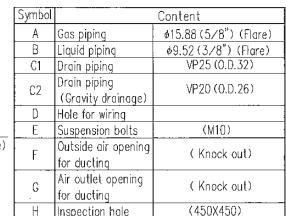
Standard Inverter			
FDC	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

Model FDU71VF1



The technical drawings illustrate the dimensions and components of the N-series air duct system:

- Top View:** Shows the duct's width and internal components. Key dimensions include a total width of 1404 (suspension bolts pitch) and 1368. Internal widths are 284 and 82. A control box is shown on the right side. A hanger plate for suspension bolts is indicated on the left. Vertical dimensions on the left show a total height of 530 (suspension bolts pitch) and 180. A 71mm gap is shown between the control box and the duct body.
- Side View:** Shows the duct's height and connection points. Key dimensions include a total height of 170 (duct dimension) and 50. A 43mm gap is shown between the duct and the control box. A 15mm gap is shown between the duct and the air supply duct. The air supply duct is shown with a 104mm width. The duct body has a 1200mm (duct dimension) length. A 104mm gap is shown between the duct and the control box. The air supply duct is shown with a 295~325mm length. A 92mm gap is shown between the duct and the control box. The duct body has a 280mm height. The air supply duct is shown with a 250mm height. The duct body has a 184.5mm height. The air supply duct is shown with a 134.5mm height. The duct body has a 468mm width. The air supply duct is shown with a 405mm width. The duct body has a 467mm width. The air supply duct is shown with a 467mm width.
- View N:** A detailed view of the duct's end, showing a 235mm (duct dimension) length and a 64mm gap. A drain hose piece (accessory) is shown installed on site. The return air duct is labeled.



Technical drawings of the VAV Box (Type A) showing dimensions and labels:

- Front View (Top Left):** Shows a rectangular box with a width of 1600 mm and a height of 831 mm. The distance between suspension bolts is 1634 mm. The distance between hanger plates for suspension bolts is 17 mm. The distance between suspension bolts pitch is 31 mm. The control box is located on the right side, with a width of 85 mm. The bottom flange has a width of 80 mm.
- Side View (Bottom Left):** Shows the side profile of the box with a height of 250 mm (duct dimension). The distance between suspension bolts pitch is 31 mm. The air supply duct is located on the right side, with a width of 75 mm. The bottom flange has a width of 75 mm.
- Top View (Bottom Right):** Shows the top profile of the box with a width of 1450 mm (duct dimension). The distance between suspension bolts pitch is 31 mm. The air supply duct is located on the right side, with a width of 75 mm. The bottom flange has a width of 75 mm.
- View N (Middle Right):** Shows the side profile of the box with a height of 250 mm (duct dimension). The distance between suspension bolts pitch is 31 mm. The air supply duct is located on the right side, with a width of 75 mm. The bottom flange has a width of 75 mm.
- Section View (Bottom Right):** Shows a cross-section of the box with a width of 893 mm and a height of 349 mm. The distance between suspension bolts pitch is 31 mm. The air supply duct is located on the right side, with a width of 75 mm. The bottom flange has a width of 75 mm.

Symbol	MODEL	Content
		200
A	Gas piping	25.4
B	Liquid piping	#9.52 (3/8") (6
C	Drain piping (Gravity drainage)	VF
D	Hole for wiring	
E	Suspension bolts	
F	Inspection hole	

Symbol	Content	
	MODEL	
A	Gas piping	φ25.4 (1") (Brazing)
B	Liquid piping	φ9.52 (3/8") (Brazing) φ12.7 (1/2") (Brazing)
C	Drain piping (Gravity drainage)	VP25 (O.D.32)
D	Hole for wiring	
E	Suspension bolts	M10
F	Inspection hole	(450X450)

SPECIFICATIONS

				HyperInverter				
Set model name				FDU71VNXVF1	FDU100VNXVF2	FDU125VNXVF	FDU140VNXVF	
Indoor unit				FDU71VF1	FDU100VF2	FDU125VF	FDU140VF	
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)				kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)				kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating	kW	2.05 / 2.01	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP		Cooling/Heating		3.46 / 3.98	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current			A	5	5	5	5	
Max. current				17	25	29	30	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
Air flow ※1	Outdoor	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50	49 / 52	
	Indoor	Cooling (Hi/Me/Lo)		19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
		Heating (Hi/Me/Lo)		19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
		Outdoor		Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
External static pressure*2			Pa	Standard:35 Max:200		Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635		280 x 1,370 x 740		
	Outdoor			750 x 880(+88) x 340		1,300 x 970 x 370		
Net weight	Indoor		kg	34		54		
	Outdoor			60		105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50	Max.100			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	Heating	°C	-15~43*3				
	-20~20							
Air filter				Procure locally				
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E				

			HyperInverter				
Set model name			FDU100VSXVF2	FDU125VSXVF	FDU140VSXVF		
Indoor unit			FDU100VF2	FDU125VF	FDU140VF		
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX		
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	
Power consumption		Cooling/Heating	kW	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP		Cooling/Heating		3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current			A	5	5	5	
Max. current				16	18	19	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
		Heating (Hi/Me/Lo)		28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	
External static pressure*2				Pa	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth		mm	280 x 1,370 x 740		
	Outdoor				1,300 x 970 x 370		
Net weight	Indoor		kg	54			
	Outdoor			105			
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.100			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling		°C	-15~43*3			
	Heating			-20~20			
Air filter			Procure locally				
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E				

*1 Powerful-Hi can be selected.

Sound pressure level: 71VNXVF1 38dB(A), 100VN(S)XVF2 44dB(A), 125VN(S)XVF 45dB(A), 140VN(S)XVF 47dB(A)

Air flow: 71VNXVF1 24m³/min, 100VN(S)XVF2 36m³/min, 125VN(S)XVF 39m³/min, 140VN(S)XVF 48m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

			Micro Inverter													
Set model name			FDU100VNVF2		FDU125VNVF		FDU140VNVF		FDU100VSVF2		FDU125VSVF		FDU140VSVF			
Indoor unit			FDU100VF2		FDU125VF		FDU140VF		FDU100VF2		FDU125VF		FDU140VF			
Outdoor unit			FDC100VN		FDC125VN		FDC140VN		FDC100VS		FDC125VS		FDC140VS			
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz							3 Phase 380-415V, 50Hz / 380V, 60Hz						
Nominal cooling capacity (Min~Max)			kW		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 14.5)		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)			kW		11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 16.0)		16.0 (4.0 ~ 16.5)		11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 16.0)		16.0 (4.0 ~ 16.5)	
Power consumption		Cooling/Heating	kW		2.80 / 3.02		3.90 / 3.88		4.95 / 4.69		2.80 / 3.02		3.90 / 3.88		4.95 / 4.69	
EER/COP		Cooling/Heating			3.57 / 3.71		3.21 / 3.61		2.83 / 3.41		3.57 / 3.71		3.21 / 3.61		2.83 / 3.41	
Inrush current			A		5		5		5		5		5		5	
Max. current					25		27		28		16		18		19	
Sound power level*1	Indoor	Cooling/Heating	dB(A)		65 / 65		67 / 67		70 / 70		65 / 65		67 / 67		70 / 70	
	Outdoor	Cooling/Heating			70 / 70		72 / 72		73 / 73		70 / 70		72 / 72		73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)		38 / 36 / 30		40 / 34 / 29		40 / 35 / 30		38 / 36 / 30		40 / 34 / 29		40 / 35 / 30	
		Heating (Hi/Me/Lo)			38 / 36 / 30		40 / 34 / 29		40 / 35 / 30		38 / 36 / 30		40 / 34 / 29		40 / 35 / 30	
Air flow ※1	Indoor	Cooling/Heating	m³/min		49 / 49		50 / 51		51 / 51		49 / 49		50 / 51		51 / 51	
	Outdoor	Cooling (Hi/Me/Lo)			28 / 25 / 19		32 / 26 / 20		35 / 28 / 22		28 / 25 / 19		32 / 26 / 20		35 / 28 / 22	
		Heating (Hi/Me/Lo)			28 / 25 / 19		32 / 26 / 20		35 / 28 / 22		28 / 25 / 19		32 / 26 / 20		35 / 28 / 22	
		Cooling/Heating			75 / 73		75 / 73		75 / 73		75 / 73		75 / 73		75 / 73	
External static pressure*2			Pa		Standard:60 Max:200											
Exterior dimensions	Indoor	HeightxWidthxDepth	mm		280 x 1,370 x 740											
	Outdoor				845 x 970 x 370											
Net weight	Indoor		kg		54											
	Outdoor				81 83											
Ref.piping size		Liquid/Gas		ømm		9.52(3/8") / 15.88(5/8")										
Refrigerant line (one way) length				m		Max.50										
Vertical height differences		Outdoor is higher/lower		m		Max.30 / Max.15										
Outdoor operating temperature range	Cooling		°C		-15~43*3											
	Heating				-20~20											
Air filter			Procure locally													
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E													

				Micro Inverter		Standard Inverter		
Set model name				FDU200VSAVG	FDU250VSAVG	FDU71VNPVF1	FDU90VNPVF2	FDU100VNP1VF2
Indoor unit				FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
Outdoor unit				FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP	FDC100VNP
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption	Cooling/Heating		kW	6.15 / 6.03	7.98 / 7.20	2.63 / 1.96	2.65 / 2.25	3.00 / 2.93
EER/COP	Cooling/Heating			3.09 / 3.71	3.01 / 3.75	2.70 / 3.62	3.40 / 4.00	3.33 / 3.82
Inrush current			A	5	5	5	5	5
Max. current				25	27	14.5	18.0	22.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	75 / 75	75 / 75	65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating		72 / 74	73 / 75	67 / 67	69 / 69	70 / 70
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		50 / 47 / 45	50 / 47 / 45	33 / 29 / 25	38 / 36 / 30	38 / 36 / 30
		Heating (Hi/Me/Lo)		50 / 47 / 45	50 / 47 / 45	33 / 29 / 25	38 / 36 / 30	38 / 36 / 30
Air flow ※1	Indoor	Cooling/Heating		57 / 59	59 / 62	54 / 54	57 / 55	57 / 61
		Cooling (Hi/Me/Lo)		72 / 64 / 56	72 / 64 / 56	19 / 15 / 10	28 / 25 / 19	28 / 25 / 19
	Outdoor	Heating (Hi/Me/Lo)	72 / 64 / 56	72 / 64 / 56	19 / 15 / 10	28 / 25 / 19	28 / 25 / 19	
		Cooling/Heating	135 / 135	143 / 151	36 / 36	63 / 49.5	75 / 79	
External static pressure*2			Pa	Standard:72 Max:200		Standard:35 Max:200	Standard:60 Max:200	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	379 x 1,600 x 893		280 x 950 x 635	280 x 1,370 x 740	
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	89		34	54	
	Outdoor			115	143	45	57	70
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 25.4(1")	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.70		Max.30		
Vertical height differences			Outdoor is higher/lower	Max.30 / Max.15		Max.20 / Max.20		
Outdoor operating temperature range	Cooling		°C	-15~50*3		-15~46*3		
	Heating			-15~20		-15~20		
Air filter				Procure locally		Procure locally		
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E		

*1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)VF2 44dB(A), 125VN(S)VF 45dB(A), 140VN(S)VF 47dB(A), 200/250VSAVG:52dB(A), 71VNPVF1 38dB(A), 90VNPVF2 44dB(A), 100VNP1VF2 44dB(A)

Air flow: 100VN(S)VF2 36m³/min, 125VN(S)VF 39m³/min, 140VN(S)VF 48m³/min, 200/250VSAVG:80m³/min, 71VNPVF1 24m³/min, 90VNPVF2 36m³/min, 100VNP1VF2 36m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

DUCT CONNECTED -Low/Middle Static pressure- FDUM



FDUM 40/50/60/71/100/125/140

Remote control (Option)

Wired



RC-EX1A



RC-E5



RCH-E3

Wireless



RCN-KIT3-E



Filter kit (option)

UM-FL1EF : for 40, 50

UM-FL2EF : for 60, 71

UM-FL3EF : for 100, 125, 140

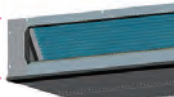
external static pressure loss:5Pa

Point 1 Thin design

The height of all FDUM models is only 280mm.

70mm less

H 350
H 280



FDUM100/125/140VF

19mm less

H 299
H 280



FDUM40/50/60/71VF

Point 2 Automatic external static pressure (E.S.P.) control

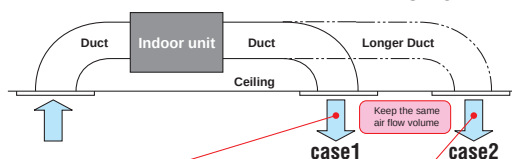
You can set External Static Pressure (E.S.P.) by method of manual setting on remote control. Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.

E.S.P. button

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



RC-E5



Setting No.	No.8	No.9	No.10	No.11	No.12	No.13	No.14	No.15
E.S.P.	80Pa	90Pa	100Pa	110Pa	120Pa	130Pa	140Pa	150Pa

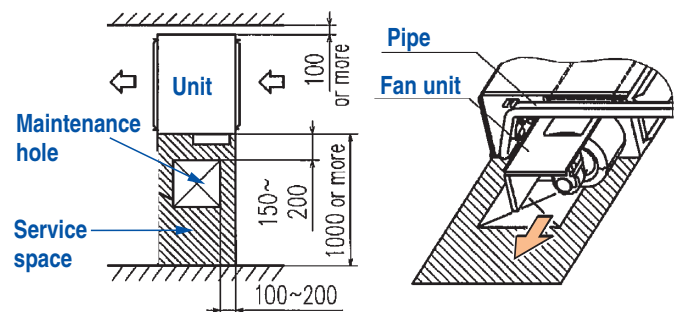
* Range of 80~150 Pa is set at ex-factory default.
Range of 10~200 Pa is available by setting SW8-4 switch on at site.

<Expansion of external static pressure range>

Previous
10~130Pa → Current
10~200Pa

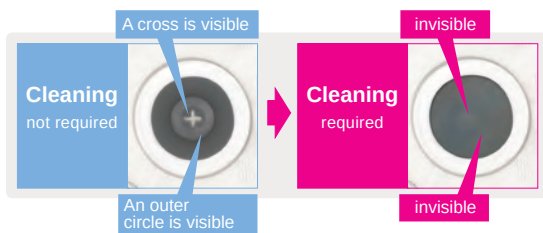
Point 3 Improvement of the serviceability

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.



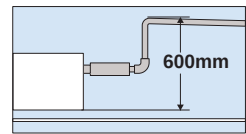
Point 4 Transparent inspection window

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



Point 5 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.



Round duct adapter

In case of requirements of round duct adapter, please access the followings for details.



Company: AIRZONE
e-mail: jmoral@altracorporacion.es
tel: +34-902-400-445

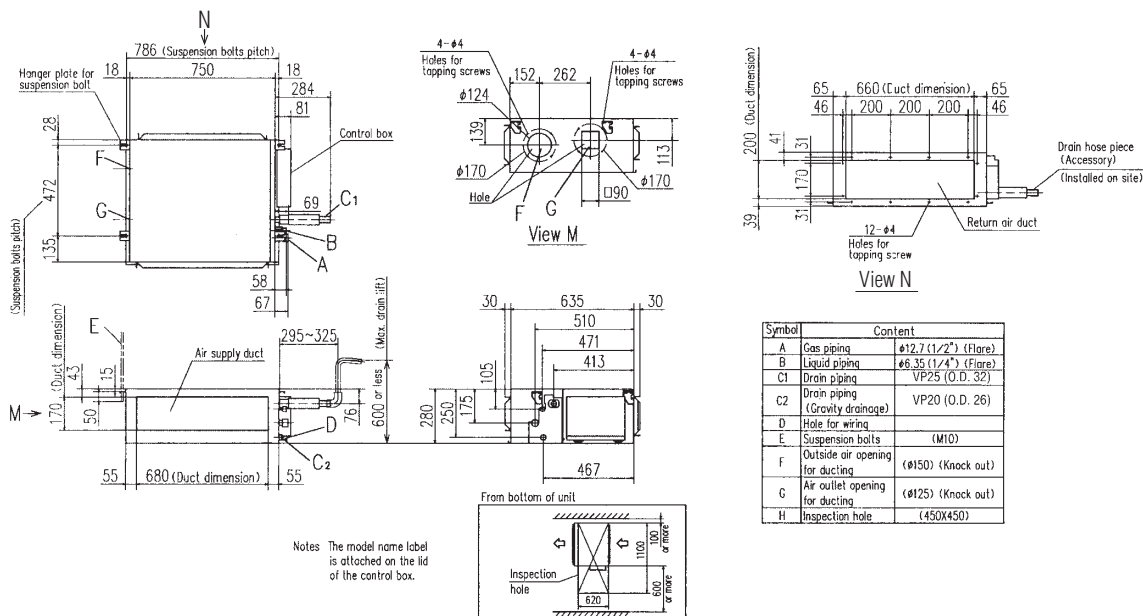
OUTDOOR UNIT

	Hyper Inverter			Micro Inverter		
SRC • FDC	40~60ZMX	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model						
Chargeless	15m	30m		30m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

	Standard Inverter		
FDC	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

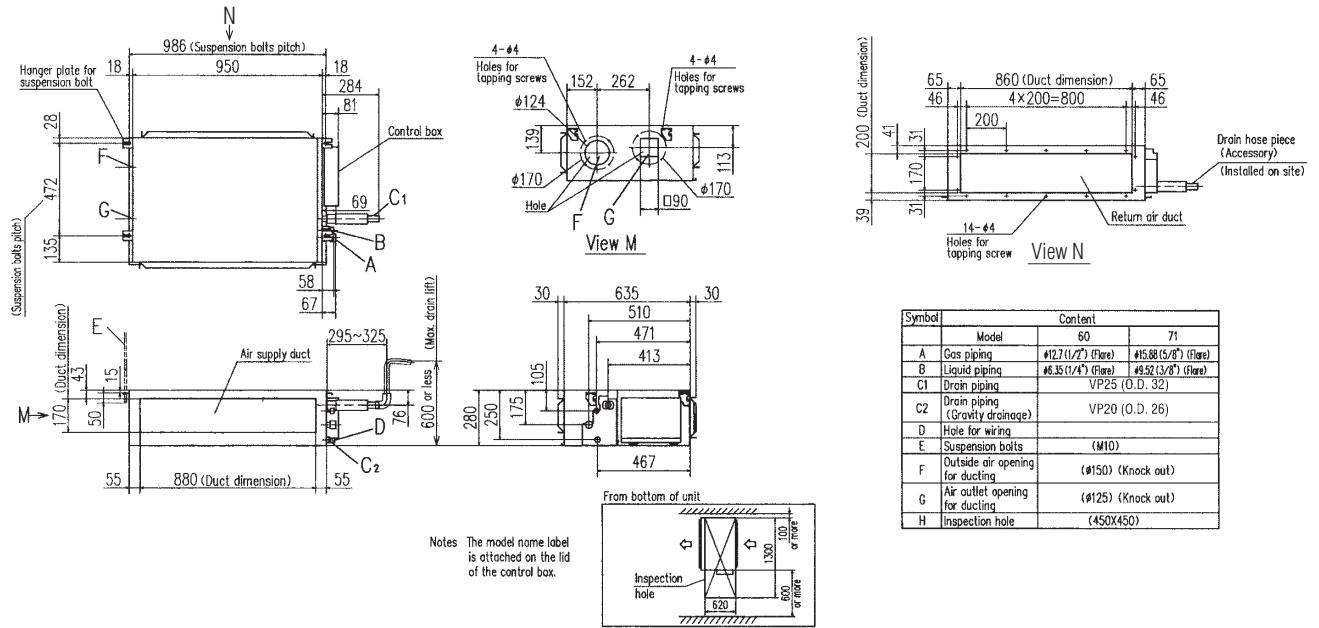
DIMENSIONS (Unit:mm)

Models FDUM40VF, FDUM50VF

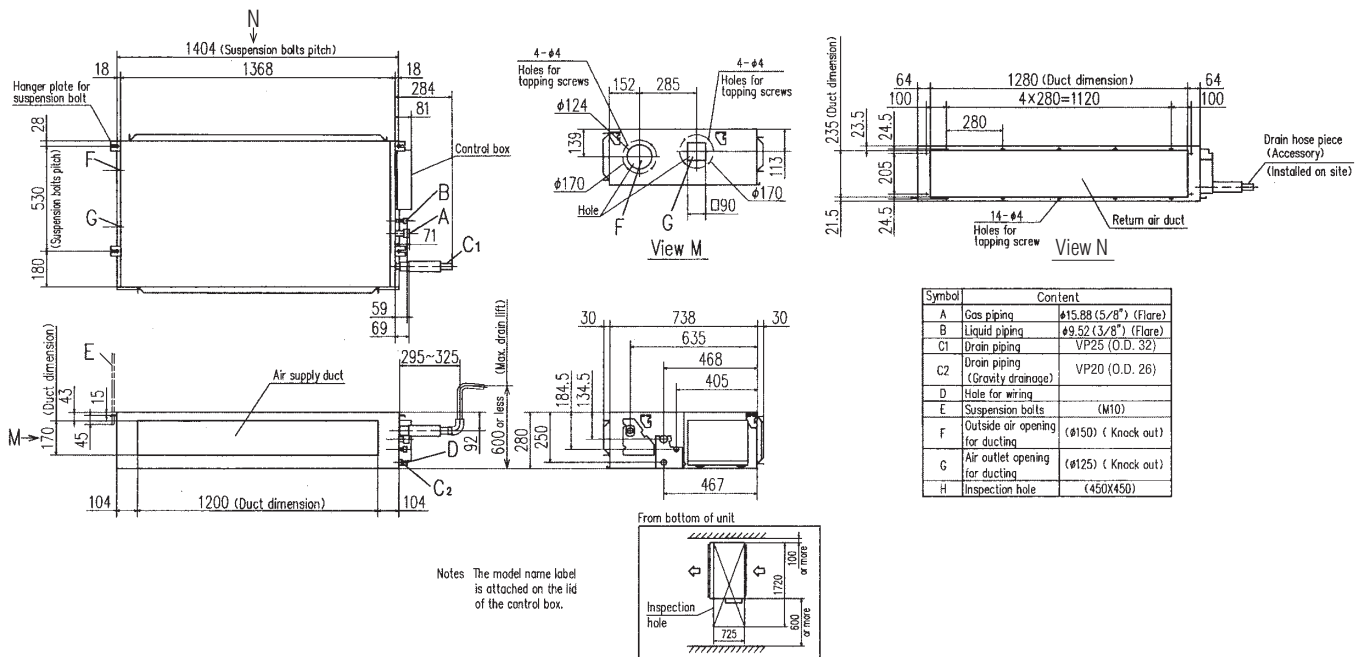


DIMENSIONS (Unit:mm)

Models FDUM60VF,71VF1



Models FDUM100VF2,125VF,140VF



SPECIFICATIONS

			HyperInverter					
Set model name			FDUM40ZMXVF	FDUM50ZMXVF	FDUM60ZMXVF	FDUM71VNXVF1	FDUM100VNXVF2	
Indoor unit			FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2	
Outdoor unit			SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	
Nominal heating capacity (Min~Max)			kW 4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 7.1)	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	
Power consumption	Cooling/Heating	kW	0.952 / 1.07	1.38 / 1.45	1.54 / 1.75	2.03 / 1.99	2.68 / 3.02	
EER/COP	Cooling/Heating		4.20 / 4.21	3.62 / 3.72	3.64 / 3.83	3.50 / 4.02	3.73 / 3.71	
Inrush current		A	5	5	5	5	5	
Max. current			12	15	15	17	24	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	65 / 65	65 / 65
	Outdoor	Cooling/Heating		63 / 63	63 / 63	64 / 64	66 / 66	70 / 70
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		32 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	38 / 36 / 30
		Heating (Hi/Me/Lo)		32 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	38 / 36 / 30
Air flow ※1	Outdoor	Cooling/Heating		50 / 50	54 / 50	54 / 54	51 / 48	48 / 50
		Cooling (Hi/Me/Lo)		10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	28 / 25 / 19
		Heating (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	
		Outdoor	Cooling/Heating	36 / 33	40 / 33	41.5 / 39	60 / 50	100 / 100
External static pressure*3			Pa	Standard:35 Max:100				Standard:60 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 1,370 x 740
	Outdoor			640 x 800(+71) x 290		750 x 880(+88) x 340		1,300 x 970 x 370
Net weight	Indoor		kg	29		34		54
	Outdoor			45		60		105
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")				9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.30			Max.50	Max.100
Vertical height differences			Outdoor is higher/lower	m	Max.20 / Max.20			Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15-43*4				-20-20	
	Heating							
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)					
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E					

			HyperInverter					
Set model name			FDUM125VNXVF	FDUM140VNXVF	FDUM100VSXVF2	FDUM125VSXVF	FDUM140VSXVF	
Indoor unit			FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF	
Outdoor unit			FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz 3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)			kW 14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	
Power consumption	Cooling/Heating	kW	3.49 / 3.77	4.28 / 4.42	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP	Cooling/Heating		3.58 / 3.71	3.27 / 3.62	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current		A	5	5	5	5	5	
Max. current			26	26	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Me/Lo)		40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
	Outdoor	Cooling/Heating		48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
		Cooling (Hi/Me/Lo)		32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	m³/min	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
	Outdoor							
External static pressure*3			Pa	Standard:60 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740				
	Outdoor			1,300 x 970 x 370				
Net weight	Indoor		kg	54				
	Outdoor			105				
Ref.piping size			Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.100				
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*4					
	Heating		-20~20					
Air filter			Filter kit : UM-FL3EF (option)					
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E					

※1 Powerful-Hi can be selected.

Sound pressure level: 40ZMXVF/50ZMXVF 37dB(A), 60ZMXVF 36dB(A), 71VNXVF1 38dB(A), 100VN(S)XVF2 44dB(A), 125VN(S)XVF 45dB(A), 140VN(S)XVF 47dB(A)
Air flow: 40ZMXVF/50ZMXVF 13m³/min, 60ZMXVF 20m³/min, 71VNXVF1 24m³/min, 100VN(S)XVF2 36m³/min, 125VN(S)XVF 39m³/min, 140VN(S)XVF 48m³/min

NOTES:

- The data are measured under the following conditions(ISO-T1).
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation.
*3 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.
*4 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

			Hyper Inverter					
Set model name			FDUM71VNXPVF	FDUM100VNXPVF	FDUM125VNXPVF	FDUM140VNXPVF1	FDUM140VNXTVF	
			Twin				Triple	
Indoor unit			FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM50VF	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)			kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)	
Power consumption	Cooling/Heating	kW	2.01 / 1.91	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69	
EER/COP	Cooling/Heating		3.53 / 4.19	3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41	
Inrush current		A	5	5	5	5	5	
Max. current			17	24	26	26	26	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
		Heating (Hi/Me/Lo)		39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
Air flow ※2	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
	Indoor*2	Cooling (Hi/Me/Lo)		10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
		Heating (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	
External static pressure*3		Pa	Standard:35 Max:100					
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 750 x 635
	Outdoor			750 x 880(+88) x 340		1,300 x 970 x 370		
Net weight	Indoor		kg	29		34		29
	Outdoor			60		105		
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50	Max.100			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*4					
	Heating		-20~20					
Air filter				Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E				

The values are for simultaneous Multi operation.

				Hyper Inverter			
Set model name				FDUM100VSXPVF	FDUM125VSXPVF	FDUM140VSXPVF1	FDUM140VSXTVF
				Twin			Triple
Indoor unit				FDUM50VF	FDUM60VF	FDUM71VF1	FDUM50VF
Outdoor unit				FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW		10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW		11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69
EER/COP		Cooling/Heating		3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41
Inrush current				5	5	5	5
Max. current		A		15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	m³/min	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
		Heating (Hi/Me/Lo)		32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	49 / 52
		Cooling (Hi/Me/Lo)		10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
Air flow ※2	Indoor*2	Heating (Hi/Me/Lo)		15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	
		Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100
External static pressure*3			Pa	Standard:35 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635	
	Outdoor			1,300 x 970 x 370		280 x 750 x 635	
Net weight	Indoor		kg	29		34	
	Outdoor			105		29	
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.100			
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling		°C	-15~43*4			
	Heating			-20~20			
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)					
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E					

※2 Powerful-Hi can be selected.

Sound pressure level: 71VNXPVF/100VN(S)XPVF 37dB(A), 125VN(S)XPVF 36dB(A), 140VN(S)XPVF1 38dB(A), 140VN(S)XTVF 37dB(A)

Air flow: 71VNXPVF/100VN(S)XPVF 13m³/min, 125VN(S)XPVF 20m³/min, 140VN(S)XPVF1 24m³/min, 140VN(S)XTVF 13m³/min

SPECIFICATIONS

			Micro Inverter							
Set model name				FDUM100VNVF2	FDUM125VNVF	FDUM140VNVF	FDUM100VSVF2	FDUM125VSVF	FDUM140VSVF	
Indoor unit				FDUM100VF2	FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF	
Outdoor unit				FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	
Power consumption	Cooling/Heating		kW	2.80 / 3.02	3.90 / 3.88	4.95 / 4.69	2.80 / 3.02	3.90 / 3.88	4.95 / 4.69	
EER/COP	Cooling/Heating			3.57 / 3.71	3.21 / 3.61	2.83 / 3.41	3.57 / 3.71	3.21 / 3.61	2.83 / 3.41	
Inrush current		A		5	5	5	5	5	5	
Max. current				24	24	24	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
Air flow ※1	Indoor	Cooling/Heating	m³/min	49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
		Cooling (Hi/Me/Lo)		28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
	Heating (Hi/Me/Lo)	28 / 25 / 19		32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22		
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
External static pressure*3			Pa	Standard:60 Max:100						
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740						
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	54						
	Outdoor			81						
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50						
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~43*4						
	Heating			-20~20						
Air filter				Filter kit : UM-FL3EF (option)						
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E						

The values are for simultaneous Multi operation.

			Micro Inverter					
Set model name			FDUM100VNPVF	FDUM125VNPVF	FDUM140VNPVF1	FDUM140VNTVF	FDUM100VSPVF	
			Twin			Triple	Twin	
Indoor unit			FDUM50VF	FDUM60VF	FDUM71VF1	FDUM50VF	FDUM50VF	
Outdoor unit			FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)
Power consumption		Cooling/Heating	kW	2.84 / 3.35	3.87 / 4.07	4.78 / 4.60	4.65 / 5.15	2.84 / 3.35
EER/COP		Cooling/Heating		3.52 / 3.34	3.23 / 3.44	2.93 / 3.48	3.01 / 3.11	3.52 / 3.34
Inrush current			A	5	5	5	5	5
Max. current				24	24	24	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60	60 / 60
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	73 / 73	70 / 70
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)		32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26	32 / 29 / 26
		Heating (Hi/Me/Lo)		32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26	32 / 29 / 26
Air flow ※1	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	51 / 51	49 / 49
	Indoor*2	Cooling (Hi/Me/Lo)		10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	10 / 9 / 8
			Heating (Hi/Me/Lo)	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	10 / 9 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*3			Pa	Standard:35 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 750 x 635
	Outdoor			845 x 970 x 370				
Net weight	Indoor		kg	29		34		29
	Outdoor			81			83	
Ref.piping size Liquid/Gas			ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50				
Vertical height differences Outdoor is higher/lower			m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	<td rowspan="2">°C</td> <td colspan="4">-15~43*4</td>	°C	-15~43*4				
	Heating			-20~20				
Air filter			Filter kit : UM-FL1EF / UM-FL2EF (option)					
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E					

※1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)VF2 44dB(A), 125VN(S)VF 45dB(A), 140VN(S)VF 47dB(A), 100VN(S)PVF 37dB(A), 125VNPVF 36dB(A), 140VNPVF1 38dB(A), 140VNTVF 37dB(A)

Air flow: 100VN(S)VF2 36m³/min, 125VN(S)VF 39m³/min, 140VN(S)VF 48m³/min, 100VN(S)PVF 13m³/min, 125VNPVF 20m³/min, 140VNPVF1 24m³/min, 140VNTVF 13m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.

*4 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter					
Set model name			FDUM125VSPVF	FDUM140VSPVF1	FDUM200VSAPVF2	FDUM250VSAPVF	FDUM140VSTVF	FDUM200VSATVF1
			Twin				Triple	
Indoor unit			FDUM60VF	FDUM71VF1	FDUM100VF2	FDUM125VF	FDUM50VF	FDUM71VF1
Outdoor unit			FDC125VS	FDC140VS	FDC200VSA	FDC250VSA	FDC140VS	FDC200VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	14.0 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)
Nominal heating capacity (Min~Max)			kW 14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	16.0 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)
Power consumption			Cooling/Heating kW 3.87 / 4.07	4.78 / 4.60	6.51 / 6.04	8.33 / 7.52	4.65 / 5.15	6.46 / 6.15
EER/COP			Cooling/Heating 3.23 / 3.44	2.93 / 3.48	2.92 / 3.71	2.88 / 3.59	3.01 / 3.11	2.94 / 3.64
Inrush current			A	5	5	5	5	5
Max. current				15	15	22	24	22
Sound power level* ¹	Indoor* ²	Cooling/Heating	dB(A)	60 / 60	65 / 65	65 / 65	67 / 67	60 / 60
	Outdoor	Cooling/Heating		72 / 72	73 / 73	72 / 74	73 / 75	73 / 73
Sound pressure level* ¹ ※ ²	Indoor* ²	Cooling (Hi/Me/Lo)		31 / 28 / 25	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	32 / 29 / 26
		Heating (Hi/Me/Lo)		31 / 28 / 25	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	32 / 29 / 26
Air flow ※ ²	Outdoor	Cooling/Heating		50 / 51	51 / 51	58 / 59	59 / 62	51 / 51
	Indoor* ²	Cooling (Hi/Me/Lo)		15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	10 / 9 / 8
		Heating (Hi/Me/Lo)		15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	10 / 9 / 8
	Outdoor	Cooling/Heating		75 / 73	75 / 73	135 / 135	143 / 151	75 / 73
External static pressure* ³			Pa	Standard:35 Max:100		Standard:60 Max:100		Standard:35 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635		280 x 1,370 x 740		280 x 750 x 635
	Outdoor			845 x 970 x 370		1,300 x 970 x 370		1,505 x 970 x 370
Net weight	Indoor		kg	34		54		29
	Outdoor			83		115		143
Ref.piping size			Liquid/Gas ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.50		Max.70		Max.50
Vertical height differences			Outdoor is higher/lower m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling		°C	-15-43* ⁴		-15-50* ⁴		-15-43* ⁴
	Heating			-20-20		-15-20		-15-50* ⁴
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)					
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E					

			Standard Inverter		
Set model name			FDUM71VNPVF1	FDUM90VNPVF2	FDUM100VNP1VF2
Indoor unit			FDUM71VF1	FDUM100VF2	FDUM100VF2
Outdoor unit			FDC71VNP	FDC90VNP	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW 7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption		Cooling/Heating	kW 2.63 / 1.96	2.65 / 2.25	3.00 / 2.93
EER/COP		Cooling/Heating	2.70 / 3.62	3.40 / 4.00	3.33 / 3.82
Inrush current		A	5	5	5
Max. current			14.5	18.0	22.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 69
Sound pressure level*1 ※2	Indoor	Cooling (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30
		Heating (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30
	Outdoor	Cooling/Heating		54 / 54	57 / 55
					57 / 61
Air flow ※2	Indoor	Cooling (Hi/Me/Lo)	m³/min	19 / 15 / 10	28 / 25 / 19
		Heating (Hi/Me/Lo)		19 / 15 / 10	28 / 25 / 19
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
External static pressure*3			Pa	Standard:35 Max:200 Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635 280 x 1,370 x 740	
	Outdoor			640 x 800(+71) x 290 750 x 880(+88) x 340 845 x 970 x 370	
Net weight	Indoor		kg	34 54	
	Outdoor			45 57 70	
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2") 6.35(1/4") / 15.88(5/8") 9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.30	
Vertical height differences Outdoor is higher/lower			m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling		°C	-15~46*4	
	Heating			-15~20	
Air filter			Filter kit : UM-FL2EF / UM-FL3EF (option)		
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E		

※2 Powerful-Hi can be selected.

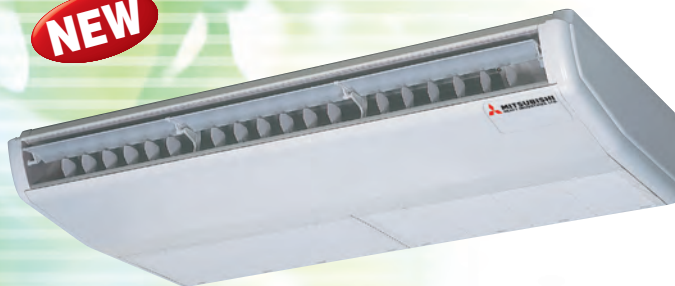
Sound pressure level: 125VSPVF 36dB(A), 140VSPVF1 38dB(A), 200VSAPVF2 44dB(A), 250VSAPVF 45dB(A), 140VSTVF 37dB(A), 200VSATVF1 38dB(A), 71VNPVF1 38dB(A), 90VNPVF2 44dB(A), 100VNP1VF2 44dB(A)

Air flow: 125VSPVF 20m³/min, 140VSPVF1 24m³/min, 200VSAPVF2 36m³/min, 250VSAPVF 39m³/min, 140VSTVF 13m³/min, 200VSATVF1 24m³/min, 71VNPVF1 24m³/min, 90VNPVF2 36m³/min, 100VNP1VF2 36m³/min

CEILING SUSPENDED FDE



NEW

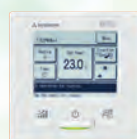


FDE 40/50/60/71/100/125/140

Remote control (Option)

Wired

Wireless



RC-EX1A



RC-E5



RCH-E3



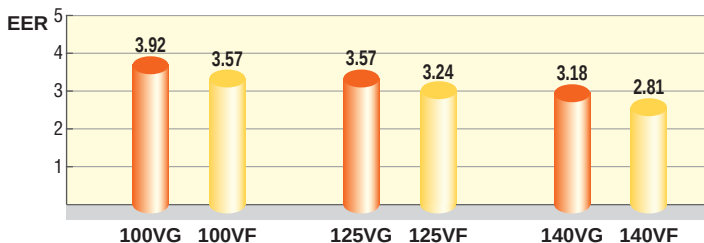
RCN-E-E



Point 1

High efficiency

Energy efficiency was improved by use of DC fan motor & high efficient heat exchanger.



•In case of Hyper INV

Point 2

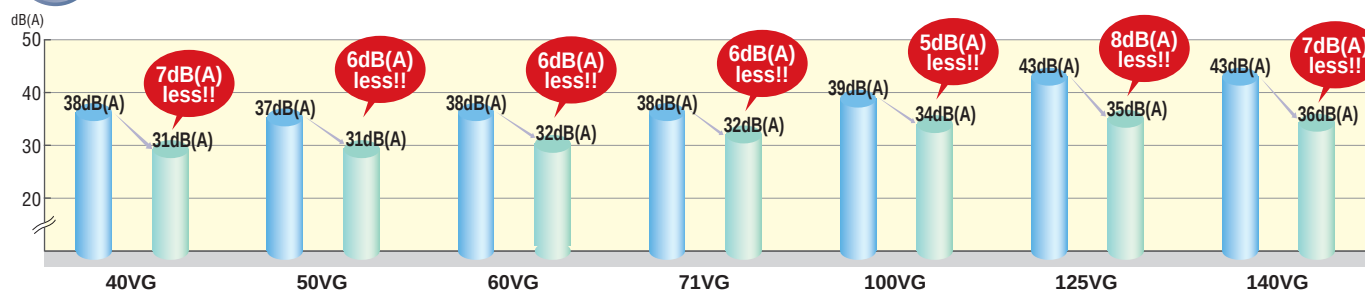
Reduction of weight

Thanks to decreasing the numbers of fan motor from two to one, reduction of weight was achieved.

	Current	New	
60-71VG	37	33	4kg less!!
100-125-140VG	49	43	6kg less!!

Point 3

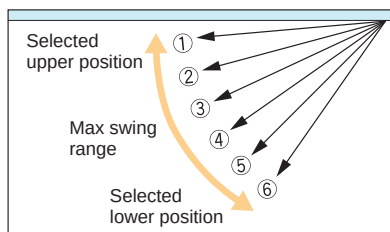
Reduction of sound pressure level (Lo mode)



Point 4

Flap control

The flap can swing within the range of upper and lower flap position selected with wired remote control.



Point 5

Improved installation workability

Increased freedom of a piping layout

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



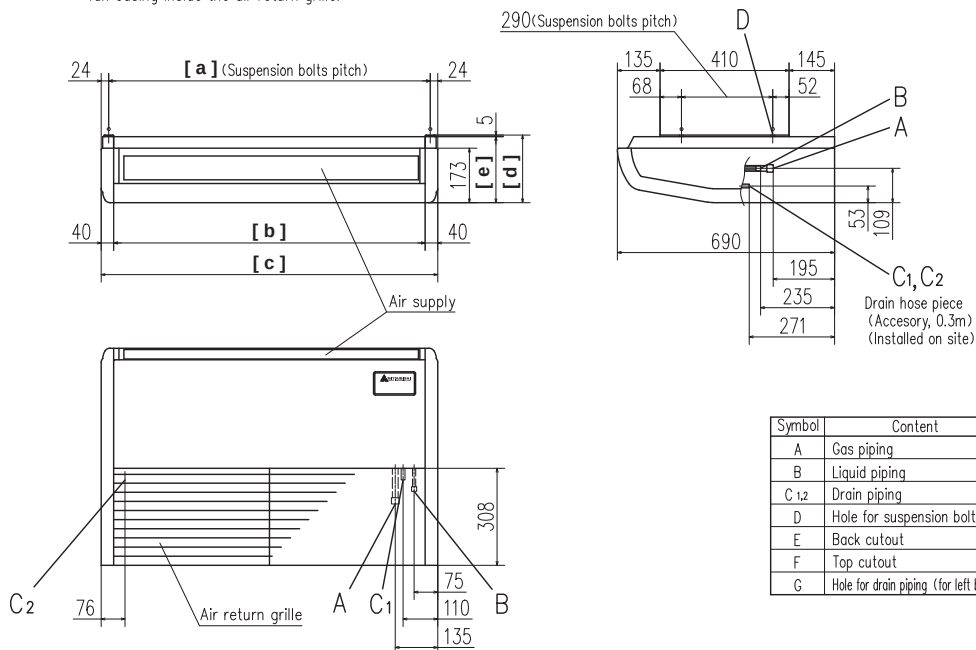
OUTDOOR UNIT

	Hyper Inverter			Micro Inverter		
SRC • FDC	40~60ZMX	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model						
Chargeless	15m	30m		30m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

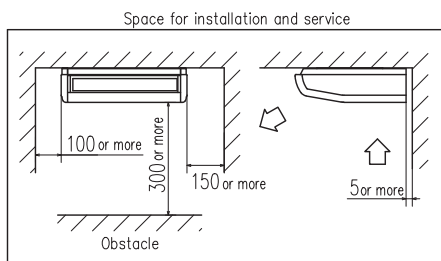
	Standard Inverter		
FDC	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm)

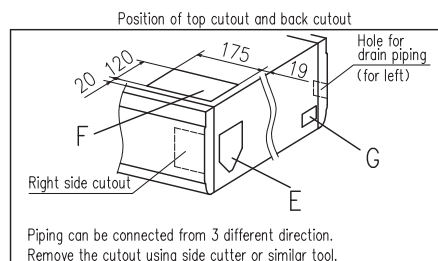
Note (1) The model name label is attached on the fan casing inside the air return grille.



Symbol	Content	40-50-60VG	71-100-125-140VG
A	Gas piping	φ12.7(1/2") (Flare)	φ15.88(5/8") (Flare)
B	Liquid piping	φ6.35(1/4") (Flare)	φ9.52(3/8") (Flare)
C1,2	Drain piping	VP20	
D	Hole for suspension bolts	(M10 or M8)	
E	Back cutout	PE cover	
F	Top cutout	Plate cover	
G	Hole for drain piping (for left back)	(Knock out)	



Make a space of [f] or more between the units when installing more than one.



DIMENSIONS TABLE

model	[a]	[b]	[c]	[d]	[e]	[f]
FDE40,50	1022	990	1070	215	210	4000
FDE60,71	1272	1240	1320	215	210	4500
FDE100~140	1572	1540	1620	255	250	5000

SPECIFICATIONS

			Hyper Inverter				
Set model name			FDE40ZMXVG	FDE50ZMXVG	FDE60ZMXVG	FDE71VNXVG	FDE100VNXVG
Indoor unit			FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG
Outdoor unit			SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)			kW 4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 7.1)	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)
Power consumption	Cooling/Heating	kW	1.02 / 1.10	1.52 / 1.46	1.75 / 1.86	2.11 / 2.11	2.55 / 2.68
EER/COP	Cooling/Heating		3.92 / 4.09	3.29 / 3.70	3.20 / 3.60	3.36 / 3.79	3.92 / 4.18
Inrush current		A	5	5	5	5	5
Max. current			12	15	15	17	24
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		63 / 63	63 / 63	64 / 64	66 / 66
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
		Heating (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
Air flow ※1	Outdoor	Cooling/Heating		50 / 50	54 / 50	54 / 54	51 / 48
	Indoor	Cooling (Hi/Me/Lo)		10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
		Heating (Hi/Me/Lo)	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
Exterior dimensions	Indoor	Cooling/Heating	m³/min	36 / 33	40 / 33	41.5 / 39	60 / 50
	Outdoor	HeightxWidthxDepth		mm	210 x 1,070 x 690		250 x 1,620 x 690
					640 x 800(+71) x 290		750 x 880(+88) x 340
Net weight	Indoor		kg	28		33	43
	Outdoor			45		60	105
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")				9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30				Max.50
Vertical height differences		m	Max.20 / Max.20				Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15~43*3				-20~20
	Heating		-15~20				
Air filter, Q'ty			Pocket Plastic net x2(Washable)				
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

			Hyper Inverter				
Set model name			FDE125VNXVG	FDE140VNXVG	FDE100VSXVG	FDE125VSXVG	FDE140VSXVG
Indoor unit			FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG
Outdoor unit			FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW 14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption	Cooling/Heating	kW	3.50 / 3.77	4.40 / 4.69	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69
EER/COP	Cooling/Heating		3.57 / 3.71	3.18 / 3.41	3.92 / 4.18	3.57 / 3.71	3.18 / 3.41
Inrush current		A	5	5	5	5	5
Max. current			26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	65 / 65	64 / 64	64 / 64
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35
		Heating (Hi/Me/Lo)		45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35
	Outdoor	Cooling/Heating		48 / 50	49 / 52	48 / 50	48 / 50
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17
		Heating (Hi/Me/Lo)		29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690			
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	43			
	Outdoor			105			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.100			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*3				
	Heating		-20~20				
Air filter, Q'ty			Pocket Plastic net x2(Washable)				
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

※1 Powerful-Hi can be selected.

Sound pressure level: 40/50ZMXVG 46dB(A), 60ZMXVG 47dB(A), 71VNXVG 47dB(A), 100/125VN(S)XVG 48dB(A), 140VN(S)XVG 49dB(A)
Air flow: 40/50ZMXVG 13m³/min, 60ZMXVG 20m³/min, 71VNXVG 20m³/min, 100/125VN(S)XVG 32m³/min, 140VN(S)XVG 34m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

			HyperInverter				
Set model name			FDE71VNX	FDE100VNX	FDE125VNX	FDE140VNX	FDE140VNX
			Twin				Triple
Indoor unit			FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE50VG
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating	kW 2.05 / 2.35	3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP		Cooling/Heating	3.46 / 3.40	3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current		A	5	5	5	5	5
Max. current			17	24	26	26	26
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
		Heating (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52
		Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo)	m³/min	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
		Heating (Hi/Me/Lo)		10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor		kg	28		33	
	Outdoor			60	105		
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max. 50	Max. 100		
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*3				
	Heating		-20~20				
Air filter, Q'ty			Pocket plastic net x 2(Washable)				
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

The values are for simultaneous Multi operation.

			HyperInverter									
Set model name			FDE100VSXPVG		FDE125VSXPVG		FDE140VSXPVG		FDE140VSXTVG			
			Twin		Triple							
Indoor unit			FDE50VG		FDE60VG		FDE71VG		FDE50VG			
Outdoor unit			FDC100VSX		FDC125VSX		FDC140VSX		FDC140VSX			
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz									
Nominal cooling capacity (Min~Max)			kW 10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 16.0)		14.0 (5.0 ~ 16.0)			
Nominal heating capacity (Min~Max)			kW 11.2 (4.0 ~ 16.0)		14.0 (4.0 ~ 18.0)		16.0 (4.0 ~ 20.0)		16.0 (4.0 ~ 20.0)			
Power consumption		Cooling/Heating	kW 3.00 / 3.39		3.97 / 3.70		4.67 / 4.58		4.66 / 4.53			
EER/COP		Cooling/Heating	3.33 / 3.30		3.15 / 3.78		3.00 / 3.49		3.00 / 3.53			
Inrush current			A		5		5		5			
Max. current					15		15		15			
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)		60 / 60		60 / 60		60 / 60			
	Outdoor	Cooling/Heating			70 / 70		70 / 70		72 / 72			
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)			38 / 36 / 31		41 / 37 / 32		41 / 37 / 32		38 / 36 / 31	
		Heating (Hi/Me/Lo)			38 / 36 / 31		41 / 37 / 32		41 / 37 / 32		38 / 36 / 31	
	Outdoor	Cooling/Heating			48 / 50		48 / 50		49 / 52		49 / 52	
		Cooling/Heating			48 / 50		48 / 50		49 / 52		49 / 52	
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo)	m³/min		10 / 9 / 7		16 / 13 / 10		16 / 13 / 10			
		Heating (Hi/Me/Lo)			10 / 9 / 7		16 / 13 / 10		16 / 13 / 10			
	Outdoor	Cooling/Heating			100 / 100		100 / 100		100 / 100		100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm		210 x 1,070 x 690		210 x 1,320 x 690		210 x 1,070 x 690			
	Outdoor				1,300 x 970 x 370							
Net weight	Indoor		kg		28		33		28			
	Outdoor				105							
	9.52(3/8") / 15.88(5/8")											
Ref.piping size		Liquid/Gas	ømm		Max.100							
Refrigerant line (one way) length			m		Max.30 / Max.15							
Vertical height differences		Outdoor is higher/lower	m		-15~43*3							
Outdoor operating temperature range	Cooling	Heating	°C		-20~20							
	Pocket plastic net x 2(Washable)											
Air filter, Q'ty			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E									
Remote control (option)												

※2 Powerful-Hi can be selected.

Sound pressure level: 71/100VN(S)XPVG 46dB(A), 125/140VN(S)XPVG 47dB(A), 140VNXTVG 46dB(A)

Air flow: 71/100VN(S)XPVG 13m³/min, 125/140VN(S)XPVG 20m³/min, 140VNXTVG 13m³/min

SPECIFICATIONS

				Micro Inverter						
Set model name				FDE100VNVG	FDE125VNVG	FDE140VNVG	FDE100VSVG	FDE125VSVG	FDE140VSVG	
Indoor unit				FDE100VG	FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG	
Outdoor unit				FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	
Power consumption	Cooling/Heating		kW	2.85 / 2.90	4.45 / 4.08	5.80 / 4.92	2.85 / 2.90	4.45 / 4.08	5.80 / 4.92	
EER/COP	Cooling/Heating			3.51 / 3.86	2.81 / 3.43	2.41 / 3.25	3.51 / 3.86	2.81 / 3.43	2.41 / 3.25	
Inrush current			A	5	5	5	5	5	5	
Max. current				24	24	24	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	64 / 64	65 / 65	64 / 64	64 / 64	65 / 65	
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	
		Heating (Hi/Me/Lo)		43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	
Air flow ※1	Indoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
	Outdoor	Cooling (Hi/Me/Lo)	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18		
			Heating (Hi/Me/Lo)	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690						
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	43						
	Outdoor			81						
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50						
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~43*3						
	Heating			-20~20						
Air filter, Q'ty				Pocket Plastic net x2(Washable)						
Remote control (option)				wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E						

The values are for simultaneous Multi operation.

			Micro Inverter													
Set model name			FDE100VNPVG		FDE125VNPVG		FDE140VNPVG		FDE140VNTVG		FDE100VSPVG		FDE125VSPVG			
			Twin				Triple		Twin							
Indoor unit			FDE50VG		FDE60VG		FDE71VG		FDE50VG		FDE50VG		FDE60VG			
Outdoor unit			FDC100VN		FDC125VN		FDC140VN		FDC140VN		FDC100VS		FDC125VS			
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz								3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)			kW		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 14.5)		14.0 (5.0 ~ 14.5)		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)	
Nominal heating capacity (Min~Max)			kW		11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 16.0)		16.0 (4.0 ~ 16.5)		16.0 (4.0 ~ 16.5)		11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 16.0)	
Power consumption		Cooling/Heating	kW		3.12 / 3.49		4.16 / 3.80		4.87 / 4.59		4.88 / 4.57		3.12 / 3.49		4.16 / 3.80	
EER/COP		Cooling/Heating			3.21 / 3.21		3.00 / 3.68		2.87 / 3.49		2.87 / 3.50		3.21 / 3.21		3.00 / 3.68	
Inrush current			A		5		5		5		5		5		5	
Max. current					24		24		24		24		15		15	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)		60 / 60		60 / 60		60 / 60		60 / 60		60 / 60		60 / 60	
	Outdoor	Cooling/Heating			70 / 70		72 / 72		73 / 73		73 / 73		70 / 70		72 / 72	
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)			38 / 36 / 31		41 / 37 / 32		41 / 37 / 32		38 / 36 / 31		38 / 36 / 31		41 / 37 / 32	
		Heating (Hi/Me/Lo)			38 / 36 / 31		41 / 37 / 32		41 / 37 / 32		38 / 36 / 31		38 / 36 / 31		41 / 37 / 32	
	Outdoor	Cooling/Heating			49 / 49		50 / 51		51 / 51		51 / 51		49 / 49		50 / 51	
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo)	m³/min		10 / 9 / 7		16 / 13 / 10		16 / 13 / 10		10 / 9 / 7		10 / 9 / 7		16 / 13 / 10	
		Heating (Hi/Me/Lo)			10 / 9 / 7		16 / 13 / 10		16 / 13 / 10		10 / 9 / 7		10 / 9 / 7		16 / 13 / 10	
	Outdoor	Cooling/Heating			75 / 73		75 / 73		75 / 73		75 / 73		75 / 73		75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm		210 x 1,070 x 690		210 x 1,320 x 690				210 x 1,070 x 690				210 x 1,320 x 690	
	Outdoor				845 x 970 x 370											
Net weight	Indoor		kg		28		33				28				33	
	Outdoor				81								83			
Ref.piping size	Liquid/Gas		ømm		9.52(3/8") / 15.88(5/8")											
Refrigerant line (one way) length			m		Max. 50											
Vertical height differences			Outdoor is higher/lower		m		Max.30 / Max.15									
Outdoor operating temperature range	Cooling		°C		-15~43*3											
	Heating				-20~20											
Air filter, Q'ty			Pocket plastic net x 2(Washable)													
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E													

※1 Powerful-Hi can be selected.

Sound pressure level: 100/125VN(S)VG 48dB(A), 140VN(S)VG 49dB(A), 100VN(S)PVG 46dB(A), 125VN(S)PVG 47dB(A), 140VNPVG 47dB(A), 140VNTVG 46dB(A)
Air flow: 100/125VN(S)VG 32m³/min, 140VN(S)VG 34m³/min, 100VN(S)PVG 13m³/min, 125VN(S)PVG 20m³/min, 140VNPVG 20m³/min, 140VNTVG 13m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter				
Set model name			FDE140VSPVG	FDE200VSAPVG	FDE250VSAPVG	FDE140VSTVG	FDE200VSATVG
			Twin			Triple	
Indoor unit			FDE71VG	FDE100VG	FDE125VG	FDE50VG	FDE71VG
Outdoor unit			FDC140VS	FDC200VSA	FDC250VSA	FDC140VS	FDC200VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 14.0 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	14.0 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)
Nominal heating capacity (Min~Max)			kW 16.0 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	16.0 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)
Power consumption			Cooling/Heating kW 4.87 / 4.59	6.34 / 6.10	8.52 / 7.54	4.88 / 4.57	6.33 / 5.94
EER/COP			Cooling/Heating 2.87 / 3.49	3.00 / 3.67	2.82 / 3.58	2.87 / 3.50	3.00 / 3.77
Inrush current			A 5	5	5	5	5
Max. current			15	20	21	15	20
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	64 / 64	64 / 64	60 / 60	60 / 60
	Outdoor	Cooling/Heating	73 / 73	72 / 74	73 / 75	73 / 73	72 / 74
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31	41 / 37 / 32
	Indoor*2	Heating (Hi/Me/Lo)	41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31	41 / 37 / 32
	Outdoor	Cooling/Heating	51 / 51	58 / 59	59 / 62	51 / 51	58 / 59
	Outdoor	Cooling (Hi/Me/Lo)	16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7	16 / 13 / 10
Air flow ※2	Indoor*2	Heating (Hi/Me/Lo)	16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7	16 / 13 / 10
	Outdoor	Cooling/Heating	75 / 73	135 / 135	143 / 151	75 / 73	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 210 x 1,320 x 690	250 x 1,620 x 690		210 x 1,070 x 690	210 x 1,320 x 690
	Outdoor		845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor		kg 33	43		28	33
	Outdoor		83	115	143	83	115
Ref.piping size			Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length			m Max.50	Max.70		Max.50	Max.70
Vertical height differences			Outdoor is higher/lower m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~-43*3	-15~-50*3		-15~-43*3	-15~-50*3
	Heating		-20~-20	-15~-20		-20~-20	-15~-20
Air filter, Q'ty			Pocket plastic net x 2(Washable)				
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

The values are for simultaneous Multi operation.(except Standard Inverter)

			Micro Inverter		Standard Inverter		
Set model name			FDE200VSADVG	FDE250VSADVG	FDE71VNPVG	FDE90VNPVG	FDE100VNP1VG
			Double Twin				
Indoor unit			FDE50VG	FDE60VG	FDE71VG	FDE100VG	FDE100VG
Outdoor unit			FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP	FDC100VNP
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW 22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption			Cooling/Heating kW 6.90 / 7.10	8.00 / 7.02	2.50 / 1.96	2.75 / 2.22	2.66 / 2.94
EER/COP			Cooling/Heating 2.75 / 3.15	3.00 / 3.85	2.84 / 3.62	3.27 / 4.05	3.76 / 3.81
Inrush current			A 5	5	5	5	5
Max. current			20	21	14.5	18.0	21.0
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	64 / 64	64 / 64
	Outdoor	Cooling/Heating	72 / 74	73 / 75	67 / 67	69 / 69	70 / 70
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34	43 / 38 / 34
	Indoor*2	Heating (Hi/Me/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34	43 / 38 / 34
	Outdoor	Cooling/Heating	58 / 59	59 / 62	54 / 54	57 / 55	57 / 61
	Outdoor	Cooling (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5	26 / 21 / 16.5
Air flow ※2	Indoor*2	Heating (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5	26 / 21 / 16.5
	Outdoor	Cooling/Heating	135 / 135	143 / 151	36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 210 x 1,070 x 690	210 x 1,320 x 690	210 x 1,320 x 690	250 x 1,620 x 690	
	Outdoor		1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg 28	33	33	43	
	Outdoor		115	143	45	57	70
Ref.piping size			Liquid/Gas ømm 9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m Max.70			Max.30	
Vertical height differences			Outdoor is higher/lower m	Max.30 / Max.15		Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°C	-15~-50*3			-15~-46*3	
	Heating		-15~-20			-15~-20	
Air filter, Q'ty			Pocket plastic net x 2(Washable)		Pocket Plastic net x2(Washable)		
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E		

※2 Powerful-Hi can be selected.

Sound pressure level: 140VSPVG 47dB(A), 200/250VSAPVG 48dB(A), 140VSTVG 46dB(A), 200VSATVG 47dB(A), 200VSADVG 46dB(A), 250VSADVG 47dB(A), 71VNPVG 47dB(A), 90VNPVG 48dB(A), 100VNP1VG 48dB(A)

Air flow: 140VSPVG 20m³/min, 200/250VSAPVG 32m³/min, 140VSTVG 13m³/min, 200VSATVG 20m³/min, 200VSADVG 13m³/min, 250VSADVG 20m³/min, 71VNPVG 20m³/min, 90VNPVG 32m³/min, 100VNP1VG 32m³/min

WALL MOUNTED SRK



Only used with Single case.

SRK 71

NEW



Common to the both case of Single / Multi

SRK 100



Only used with Multi System.

SRK 50•60

Point 1

Jet Air Scroll

We used the same aerodynamic analysis technology as used in developing jet engines.

CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels in air conditioners to develop the ideal air channel system (air circulation). The airflow of the jets created in this system enable a large volume of air to be blown with minimum power consumption, yet the air flow is uniform, quiet and reaches points a long distance from the blower.



(C) Mitsubishi Aircraft Corporation



Fast ← → Slow
Colors in the figure show the air speed.

Point 2

Long Reach Air Flow

Powerful airflow is realized by Jet technology.
Good for large living rooms and shops. Increase your comfort.

SRK50/60ZMX
(in cooling operation)



15m

17m



SRK100ZR
(in cooling operation)

Wired remote control (Option)



RC-EX1A

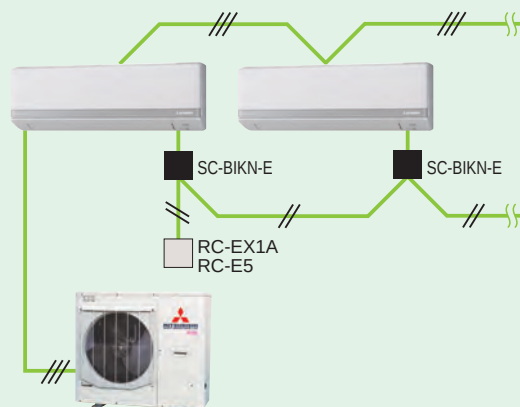


RC-E5



RCH-E3

Max three indoor units are connectable.

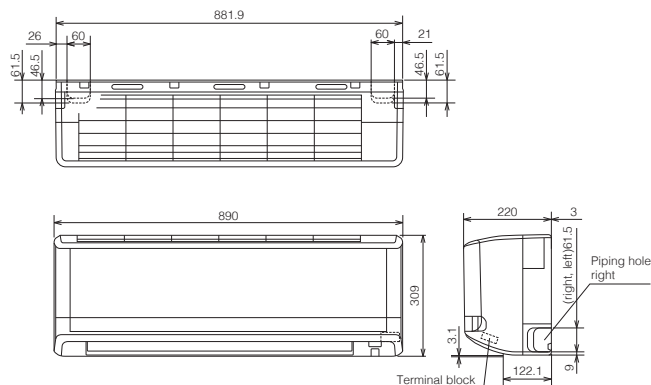


OUTDOOR UNIT

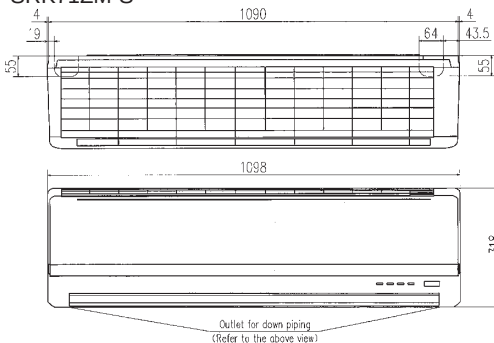
	Hyper Inverter	Micro Inverter	Standard Inverter	
FDC	100~125VN(S)X	100~140VN(S)	71VNP	100VNP
model				
Chargeless	30m	30m	15m	
Height x Width x Depth (mm)	1,300 x 970 x 370	845 x 970 x 370	640 x 800(+71) x 290	845 x 970 x 370

DIMENSIONS (Unit:mm)

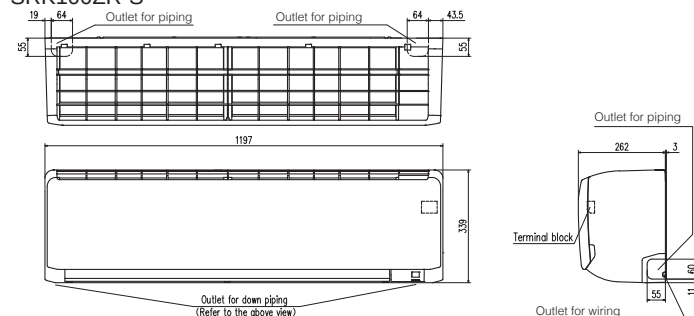
SRK50ZMX-S, 60ZMX-S



SRK71ZM-S



SRK100ZR-S



SPECIFICATIONS

The values are for simultaneous Multi operation.

			HyperInverter															
Set model name			SRK100VNXPMX		SRK125VNXPMX		SRK140VNXTZMX		SRK100VSXPZMX		SRK125VSXPZMX		SRK140VSTZMX					
			Twin				Triple		Twin				Triple					
Indoor unit			SRK50ZMX-S				SRK60ZMX-S		SRK50ZMX-S		SRK50ZMX-S		SRK60ZMX-S		SRK50ZMX-S			
Outdoor unit			FDC100VNX				FDC125VNX		FDC140VNX		FDC100VSX		FDC125VSX		FDC140VSX			
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz						3 Phase 380-415V, 50Hz / 380V, 60Hz									
Nominal cooling capacity (Min~Max)			kW		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 16.0)		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 16.0)			
Nominal heating capacity (Min~Max)			kW		11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 17.0)		16.0 (4.0 ~ 18.0)		11.2 (4.0 ~ 16.0)		14.0 (4.0 ~ 18.0)		16.0 (4.0 ~ 20.0)			
Power consumption			Cooling/Heating		kW		2.66 / 2.60		3.60 / 3.48		3.98 / 3.68		2.66 / 2.60		3.60 / 3.48		3.98 / 3.68	
EER/COP			Cooling/Heating				3.76 / 4.31		3.47 / 4.02		3.52 / 4.35		3.76 / 4.31		3.47 / 4.02		3.52 / 4.35	
Inrush current					A		5		5		5		5		5		5	
Max. current							24		26		26		15		15		15	
Sound power level*1	Indoor*2	Cooling/Heating			dB(A)		60 / 64		64 / 64		60 / 64		60 / 64		64 / 64		60 / 64	
	Outdoor	Cooling/Heating					70 / 70		70 / 70		72 / 72		70 / 70		70 / 70		72 / 72	
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Lo/Ulo)					47 / 40 / 27 / 25		51 / 41 / 29 / 25		47 / 40 / 27 / 25		47 / 40 / 27 / 25		51 / 41 / 29 / 25		47 / 40 / 27 / 25	
		Heating (Hi/Me/Lo/Ulo)					48 / 40 / 33 / 26		48 / 41 / 34 / 27		48 / 40 / 33 / 26		48 / 40 / 33 / 26		48 / 41 / 34 / 27		48 / 40 / 33 / 26	
Air flow	Indoor*2	Cooling/Heating			m³/min		48 / 50		48 / 50		49 / 52		48 / 50		48 / 50		49 / 52	
		Cooling (Hi/Me/Lo/Ulo)					13.5 / 11 / 8 / 7		14.5 / 12.5 / 8.5 / 7		13.5 / 11 / 8 / 7		13.5 / 11 / 8 / 7		14.5 / 12.5 / 8.5 / 7		13.5 / 11 / 8 / 7	
	Heating (Hi/Me/Lo/Ulo)			17 / 14.5 / 10.5 / 8			17.5 / 15 / 11 / 8.5		17 / 14.5 / 10.5 / 8		17 / 14.5 / 10.5 / 8		17.5 / 15 / 11 / 8.5		17 / 14.5 / 10.5 / 8			
	Outdoor	Cooling/Heating					100 / 100		100 / 100		100 / 100		100 / 100		100 / 100		100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth			mm		309 x 890 x 220											
	Outdoor						1,300 x 970 x 370											
Net weight	Indoor				kg		15											
	Outdoor						105											
Ref.piping size Liquid/Gas					ømm		9.52(3/8") / 15.88(5/8")											
Refrigerant line (one way) length					m		Max.100											
Vertical height differences Outdoor is higher/lower					m		Max.30 / Max.15											
Outdoor operating temperature range	Cooling				°C		-15~43*3											
	Heating						-20~20											
Air filter, Q'ty							Polypropylene net x 2(washable)											
Remote control (option)							wired:RC-EX1A, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E											

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

		Micro Inverter					
Set model name		SRK100VNPZMX	SRK125VNPZMX	SRK140VNTZMX	SRK100VSPZMX	SRK125VSPZMX	SRK140VSTZMX
		Twin		Triple	Twin		Triple
Indoor unit		SRK50ZMX-S	SRK60ZMX-S	SRK50ZMX-S	SRK50ZMX-S	SRK60ZMX-S	SRK50ZMX-S
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)
Power consumption	Cooling/Heating	2.72 / 2.86	4.25 / 4.29	4.53 / 4.05	2.72 / 2.86	4.25 / 4.29	4.53 / 4.05
EER/COP	Cooling/Heating	3.68 / 3.92	2.94 / 3.26	3.09 / 3.95	3.68 / 3.92	2.94 / 3.26	3.09 / 3.95
Inrush current		5	5	5	5	5	5
Max. current		24	24	24	15	15	15
Sound power level*1	Indoor*2	60 / 64	64 / 64	60 / 64	60 / 64	64 / 64	60 / 64
	Outdoor	70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73
Sound pressure level*1	Indoor*2	47 / 40 / 27 / 25	51 / 41 / 29 / 25	47 / 40 / 27 / 25	47 / 40 / 27 / 25	51 / 41 / 29 / 25	47 / 40 / 27 / 25
	Outdoor	48 / 40 / 33 / 26	48 / 41 / 34 / 27	48 / 40 / 33 / 26	48 / 40 / 33 / 26	48 / 41 / 34 / 27	48 / 40 / 33 / 26
Air flow	Indoor*2	13.5 / 11 / 8 / 7	14.5 / 12.5 / 8.5 / 7	13.5 / 11 / 8 / 7	13.5 / 11 / 8 / 7	14.5 / 12.5 / 8.5 / 7	13.5 / 11 / 8 / 7
	Outdoor	17 / 14.5 / 10.5 / 8	17.5 / 15 / 11 / 8.5	17 / 14.5 / 10.5 / 8	17 / 14.5 / 10.5 / 8	17.5 / 15 / 11 / 8.5	17 / 14.5 / 10.5 / 8
Exterior dimensions	Indoor	309 x 890 x 220					
	Outdoor	845 x 970 x 370					
Net weight	Indoor	15					
	Outdoor	81					
Ref.piping size	Liquid/Gas	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		Max. 50					
Vertical height differences	Outdoor is higher/lower	Max.30 / Max.15					
Outdoor operating temperature range	Cooling	-15~43*3					
	Heating	-20~20					
Air filter, Q'ty		Polypropylene net x 2(washable)					
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E					

The values are for simultaneous Multi operation.(except Single case)

		Standard Inverter		
Set model name		SRK71VNPZM	SRK100VNP1ZR	SRK200VSAPZR
				Twin
Indoor unit		SRK71ZM-S	SRK100ZR-S	SRK100ZR-S
Outdoor unit		FDC71VNP	FDC100VNP	FDC200VSA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)	kW	7.1 (1.4 ~ 7.1)	10.0 (2.4 ~ 10.5)	19.0 (5.2 ~ 22.4)
Nominal heating capacity (Min~Max)	kW	7.1 (1.0 ~ 7.1)	11.2 (3.2 ~ 11.5)	22.4 (3.3 ~ 25.0)
Power consumption	Cooling/Heating	2.36 / 1.88	3.09 / 3.28	7.52 / 7.41
EER/COP	Cooling/Heating	3.01 / 3.78	3.24 / 3.41	2.53 / 3.02
Inrush current		5	14.4	5
Max. current		14.5	21	20
Sound power level*1	Indoor*2	60 / 61	63 / 63	63 / 63
	Outdoor	67 / 67	70 / 74	72 / 74
Sound pressure level*1	Indoor*2	49 / 45 / 39 / 26	48 / 45 / 40 / 27	48 / 45 / 40 / 27
	Outdoor	46 / 43 / 38 / 35	48 / 43 / 38 / 30	48 / 43 / 38 / 30
Air flow	Indoor*2	17.5 / 14 / 8	24.5 / 21.3 / 17.6	24.5 / 21.3 / 17.6 / 10.4
	Outdoor	19.5 / 15.5 / 14	27.5 / 23.2 / 19.1	27.5 / 23.2 / 19.1 / 13.6
Exterior dimensions	Indoor	318 x 1,098 x 248		
	Outdoor	640 x 800(+71) x 290		
Net weight	Indoor	16		
	Outdoor	45		
Ref.piping size	Liquid/Gas	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		Max.30		
Vertical height differences	Outdoor is higher/lower	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	-15~46*3		
	Heating	-15~20		
Air filter, Q'ty		Polypropylene net x2 (Washable)		
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E		

NOTES:

The data are measured under the following conditions (ISO-T1).
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.
*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
*2 : The values are for one indoor unit operation. (Multi system only)
*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

FLOOR STANDING FDF



Wireless remote control (Option)



RCN-KIT3-E

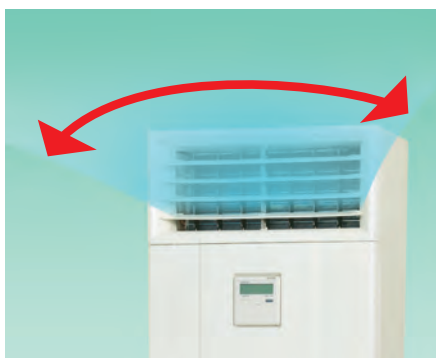


FDF 71/100/125/140

Point
1

Wide and powerful air flow

Wide and powerful air flow increase your comfort, realizing high efficiency in combination with our highly advanced outdoor units.



Point
2

Easy Transportation 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.



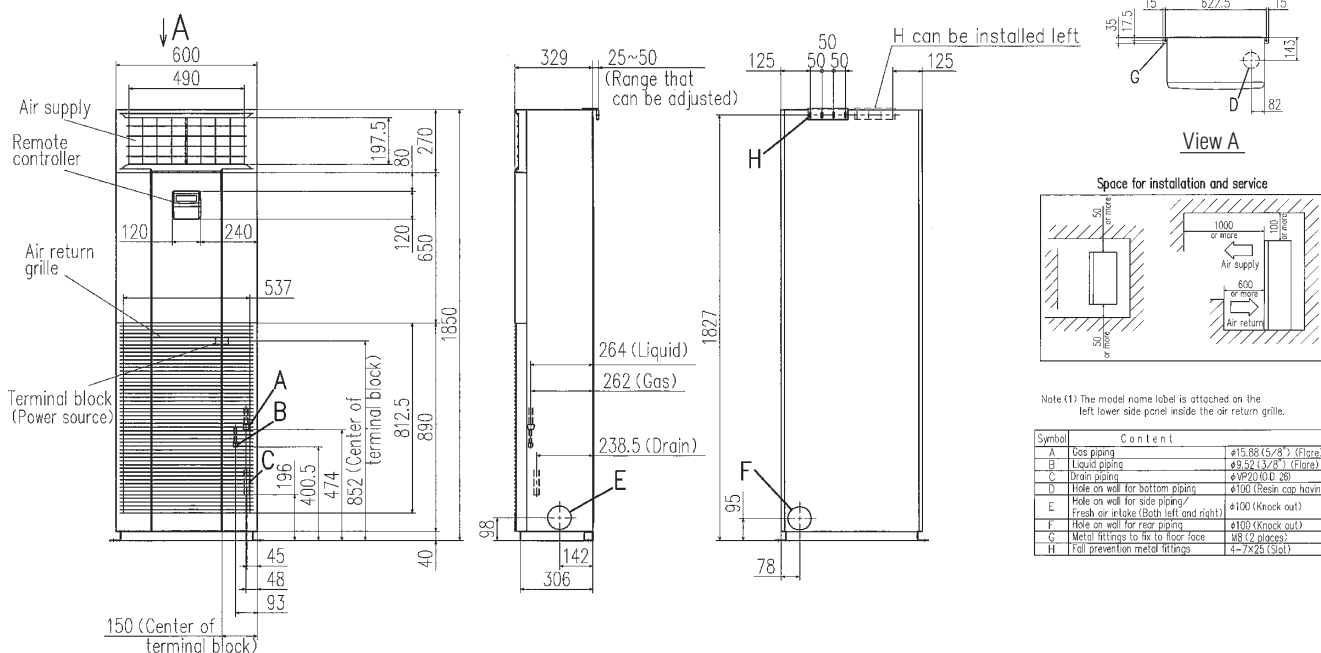
OUTDOOR UNIT

	<i>Hyper Inverter</i>		<i>Micro Inverter</i>		
FDC	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model					
Chargeless	15m	30m	30m		
Height x Width x Depth (mm)	750 x 880(+71) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

Standard Inverter

FDC	71VNP	90VNP	100VNP
model			
Chargeless	8m		15m
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS(Unit:mm)



SPECIFICATIONS

			HyperInverter							
Set model name			FDF71VNXVD1	FDF100VNXVD2	FDF125VNXVD	FDF140VNXVD	FDF100VSXVD2	FDF125VSXVD	FDF140VSXVD	
Indoor unit			FDF71VD1	FDF100VD2	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption	Cooling/Heating	kW	2.21 / 2.21	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69	
EER/COP	Cooling/Heating		3.21 / 3.62	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	
Inrush current		A	5	5	5	5	5	5	5	
Max. current			17	24	26	26	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44
		Heating (Hi/Me/Lo)		39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44
Air flow ※1	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
	Indoor	Cooling (Hi/Me/Lo)	m³/min	18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
		Heating (Hi/Me/Lo)		18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
		Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320						
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370					
Net weight	Indoor		kg	49	52					
	Outdoor			60	105					
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")							
Refrigerant line (one way) length		m	Max.50	Max.100						
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15						
Outdoor operating temperature range	Cooling	°C	-15~43*3							
	Heating		-20~20							
Air filter, Q'ty			Plastic net x 1(washable)							
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)							

※1 Powerful-Hi can be selected.

Sound pressure level: 71VNXVD1 42dB(A), 100VN(S)XVD2 54dB(A), 125/140VN(S)XVD 54dB(A)

Air flow: 71VNXVD1 20m³/min, 100VN(S)XVD2 29m³/min, 125/140VN(S)XVD 29m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

SPECIFICATIONS

The values are for simultaneous Multi operation.

			Hyper Inverter	
Set model name			FDF140VNX PVD1	FDF140VSX PVD1
			Twin	
Indoor unit			FDF71VD1	FDF71VD1
Outdoor unit			FDC140VNX	FDC140VSX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V 60Hz
Nominal cooling capacity (Min~Max)		kW	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating kW	4.83 / 4.97	4.83/ 4.97
EER/COP		Cooling/Heating	2.90 / 3.22	2.90 / 3.22
Inrush current		A	5	5
Max. current			26	15
Sound power level*1	Indoor*2	Cooling/Heating	61 / 61	61 / 61
	Outdoor	Cooling/Heating	72 / 72	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	39 / 35 / 33	39 / 35 / 33
		Heating (Hi/Me/Lo)	39 / 35 / 33	39 / 35 / 33
Air flow ※2	Outdoor	Cooling/Heating	49 / 52	49 / 52
	Indoor*2	Cooling (Hi/Me/Lo)	16 / 14 / 12	16 / 14 / 12
		Heating (Hi/Me/Lo)	16 / 14 / 12	16 / 14 / 12
	Outdoor	Cooling/Heating	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 320	
	Outdoor		1,300 x 970 x 370	
Net weight	Indoor	kg	49	
	Outdoor		105	
Ref.piping size		Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.100	
Vertical height differences		Outdoor is higher/lower	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C	-15~43*3	
	Heating		-20~20	
Air filter, Q'ty			Plastic net x 1(washable)	
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)	

			Micro Inverter							
Set model name			FDF100VNVD2	FDF125VNVD	FDF140VNVD	FDF100VSVD2	FDF125VSVD	FDF140VSVD		
Indoor unit			FDF100VD2	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD		
Outdoor unit			FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS		
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	
Power consumption			Cooling/Heating	kW	3.12 / 3.10	4.40 / 4.36	5.15 / 5.31	3.12 / 3.10	4.40 / 4.36	5.15 / 5.31
EER/COP			Cooling/Heating		3.21 / 3.61	2.84 / 3.21	2.72 / 3.01	3.21 / 3.61	2.84 / 3.21	2.72 / 3.01
Inrush current			A	5	5	5	5	5	5	
Max. current				24	24	24	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73	73 / 73	
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※2	Indoor	Cooling (Hi/Me/Lo)	dB(A)	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	
		Heating (Hi/Me/Lo)		50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	
Air flow ※2	Indoor	Cooling/Heating	m³/min	49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
	Outdoor	Cooling (Hi/Me/Lo)		26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	
		Heating (Hi/Me/Lo)		26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	
Exterior dimensions	Indoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
	Outdoor	HeightxWidthxDepth	mm	1,850 x 600 x 320						
Net weight	Indoor		kg	845 x 970 x 370						
	Outdoor			52						
Ref.piping size			ømm	81			83			
Liquid/Gas				9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50						
Vertical height differences			Outdoor is higher/lower	Max.30 / Max.15						
Outdoor operating temperature range	Cooling	Heating	°C	-15~43*3						
				-20~20						
Air filter, Q'ty				Plastic net x 1(Washable)						
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)						

※2 Powerful-Hi can be selected.

Sound pressure level: 140VN(S)XPVD1 42dB(A), 100VN(S)VD2 54dB(A), 125/140VN(S)VD 54dB(A)

Air flow: 140VN(S)XPVD1 18m³/min, 100VN(S)VD2 29m³/min, 125/140VN(S)VD 29m³/min

SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter				
Set model name			FDF140VNPVD1	FDF140VSPVD1	FDF200VSAPVD2	FDF250VSAPVD	
			Twin				
Indoor unit			FDF71VD1	FDF71VD1	FDF100VD2	FDF125VD	
Outdoor unit			FDC140VN	FDC140VS	FDC200VSA	FDC250VSA	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	14.0 (5.0 ~ 14.5)	14.0 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min~Max)			kW	16.0 (4.0 ~ 16.5)	16.0 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption		Cooling/Heating	kW	5.16 / 5.01	5.16 / 5.01	6.74 / 6.42	9.15 / 8.49
EER/COP		Cooling/Heating		2.71 / 3.19	2.71 / 3.19	2.82 / 3.49	2.62 / 3.18
Inrush current			A	5	5	5	5
Max. current				24	15	20	21
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	61 / 61	61 / 61	65 / 65	73 / 73
	Outdoor	Cooling/Heating		73 / 73	73 / 73	72 / 74	73 / 75
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)		39 / 35 / 33	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44
		Heating (Hi/Me/Lo)		39 / 35 / 33	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44
	Outdoor	Cooling/Heating		51 / 51	51 / 51	58 / 59	59 / 62
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo)	m³/min	16 / 14 / 12	16 / 14 / 12	26 / 23 / 19	26 / 23 / 19
		Heating (Hi/Me/Lo)		16 / 14 / 12	16 / 14 / 12	26 / 23 / 19	26 / 23 / 19
	Outdoor	Cooling/Heating		75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320			
	Outdoor			845 x 970 x 370		1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		kg	49		52	
	Outdoor			81	83	115	143
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.50		Max.70	
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*3		-15~50*3		
	Heating		-20~20		-15~20		
Air filter, Q'ty			Plastic net x 1(washable)				
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)				

			Standard Inverter		
Set model name			FDF71VNPVD1	FDF90VNPVD2	FDF100VNP1VD2
Indoor unit			FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit			FDC71VNP	FDC90VNP	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW 7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption	Cooling/Heating		kW 2.63 / 2.08	2.79 / 2.25	3.19 / 3.09
EER/COP	Cooling/Heating		2.70 / 3.41	3.23 / 4.00	3.13 / 3.62
Inrush current		A	5	5	5
Max. current			14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65
	Outdoor			Cooling/Heating	67 / 67
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		39 / 35 / 33	50 / 48 / 44
		Heating (Hi/Me/Lo)		39 / 35 / 33	50 / 48 / 44
Air flow ※1	Outdoor	Cooling/Heating		54 / 54	57 / 55
	Indoor	Cooling (Hi/Me/Lo)		18 / 16 / 14	26 / 23 / 19
		Heating (Hi/Me/Lo)	18 / 16 / 14	26 / 23 / 19	
		Outdoor	Cooling/Heating	36 / 36	63 / 49.5
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320	
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		kg <td>49</td> <td>52</td>	49	52
	Outdoor			45	57
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.23	Max.30
Vertical height differences			Outdoor is higher/lower	m	Max.20 / Max.20
Outdoor operating temperature range	Cooling		°C	-15~46*3	
	Heating			-15~20	
Air filter, Q'ty				Plastic net x1(Washable)	
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)	

※1 Powerful-Hi can be selected.

Sound pressure level: 42dB(A), 140VN(S)PVD1 42dB(A), 200VSAPVD2 54dB(A), 250VSAPVD 54dB(A), 71VNPVD1 42dB(A), 90VNPVD2 54dB(A), 100VNP1VD2 54dB(A)

Air flow: 140VN(S)PVD1 18m³/min, 200VSAPVD2 29m³/min, 250VSAPVD 29m³/min, 71VNPVD1 20m³/min, 90VNPVD2 29m³/min, 100VNP1VD2 29m³/min

NOTES:

The data are measured under the following conditions(ISO-T1).

Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

*2 : The values are for one indoor unit operation.

*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

BENEFITS SUMMARY

When using RC-EX1A (Remote control), functions with symbol  are available.
However, for RC-E5 (Remote control), functions with ※ are not available.

			FDT	FDTc	FDU	FDUM	FDE	SRK	FDF
									
Economy	Inverter technology	Inverter control technology functions at high efficiency with smooth operation from high speed to low speed. A smooth sine voltage wave is attained.							
	Energy-saving ※	Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.							
	Home leave operation ※	When the unit is not used for a long period of time, the room temperature is maintained at a moderate level, avoiding extremely hot or cool temperatures.							
	Set temperature auto return ※	The temperature automatically returns to the previously set temperature.							
Comfort	Automatic operation	The air conditioner automatically selects from among heating, cooling operations.							
	Silent mode	The unit can be set to prioritise the period of time it operates at a lower noise level.							
	Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.							
	Hi power mode ※	The high power operation adjusts the room temperature quickly to a pleasant level by increasing the operation capacity. The high power operation continues for 15 minutes at maximum and returns to the normal operation automatically.							
Air flow	Individual flap control	Motion range (upper and lower limit positions) of the flap at each air outlet can be set at a desired range individually.							
	Vertical auto swing	Flap moves up and down continuously. The Up/Down flap swing can be fixed at the preferred operation angle.							
	Ceiling stain prevention	The shape & angled louver redirects the air current away from the ceiling reducing ceiling stains.							
	Automatic fan speed	The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature.							
Timer	Sleep timer	Set the time period from start to stop of operation. The selectable range of setting time is from 30 to 240 minutes (at 10-minute intervals).							
	Peak-cut timer ※	Capacity control can be set by using peak cut function on RC-EX1A for better energy saving. Five-step capacity control is available.							
	Weekly timer	On or Off timer can be set on a weekly basis.							
Convenient	Static pressure adjustment	This is operable when connecting duct type indoor units equipped with the external static pressure adjustment function. It will adjust the airflow accordingly based on the connected duct static pressure.							
	Remote control	You can select wired remote controls, wireless remote controls or central remote controls.	 Option	 Option	 Option	 Option	 Option	 Option	 Option
	Select the language ※	Set the language to be displayed on the remote control.							
	Air filter	Removes airborne dust particles through the air filter to ensure a steady supply of clean air.			Procure locally	 Option			
	Filter sign	Announces the due time for cleaning of the air filter.							
	Outside air intake	Outside fresh air can be taken inside.		 Option					
Others	Self-diagnosis	In the case that the air conditioner malfunctions, an internal microcomputer automatically runs a self-diagnosis. (Inspection and repair should be performed by authorized dealers.)							
	Drain up	It allows for a flexible piping layout for condensate allowing a high degree of freedom depending on the installation location			 *1				

*1 : Except 200 • 250

Simple setting **REMOTE CONTROL**

Advanced touch screen panel with full dot Liquid Crystal display

User friendly

- LCD panel with light tap operation introduced as the industry's first
- Simple interface with only three buttons

High level of visibility

- Big LCD with 3.8 inch full dot display
- Back light function
- Multi language display (9 languages)

RC-EX1A (option)

Operation mode setting screen



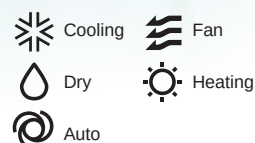
The desired operation mode can be selected by simply tapping this button.

Setting temperature screen



You can select the temperature as desired by tapping button.

Operation mode



Run / Stop

Simple setting by tapping button only

High power operation

- The highest capacity operation (Max 15 minutes)
- Increasing compressor speed
 - Increasing air flow volume

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

Saving energy

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

Comfort

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

Convenience

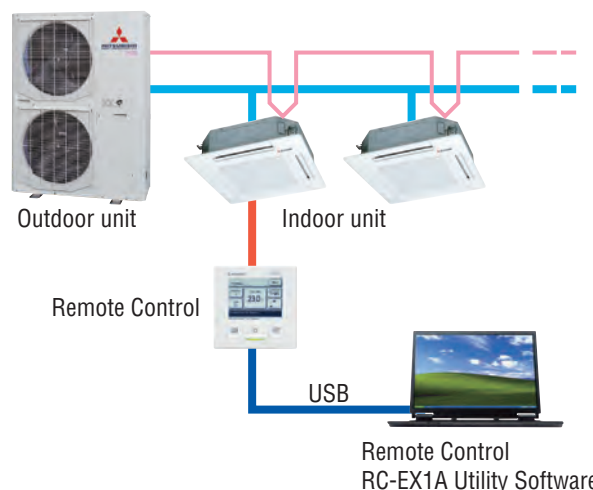
LCD contrast setting
Back light setting
Filter sign
Control sound
Outdoor silent mode
Summer time setting
Home leave mode
Indoor & outdoor temperature display
Heating standby display
Defrosting operation display
Auto cooling/heating display
°C/°F display
Administrator settings
Room name setting

Service

Error code display
Operation data display
Next service date display
Contact company display
USB connection (mini-B)

Remote control RC-EX1A Series Utility Software

By connecting this system to the Remote Control, the Remote Control can be operated from PC.



Remote Control line up

	indoor unit	remote control
wired	all models	RC-EX1A
		RC-E5
		RCH-E3

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

Wired remote control (option)

RC-E5

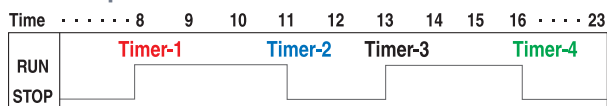


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

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

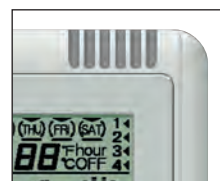


Run hour meters to facilitate maintenance checking

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

Simple remote control (option)

RCH-E3 (wired)



Considering specialized 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, with 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



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

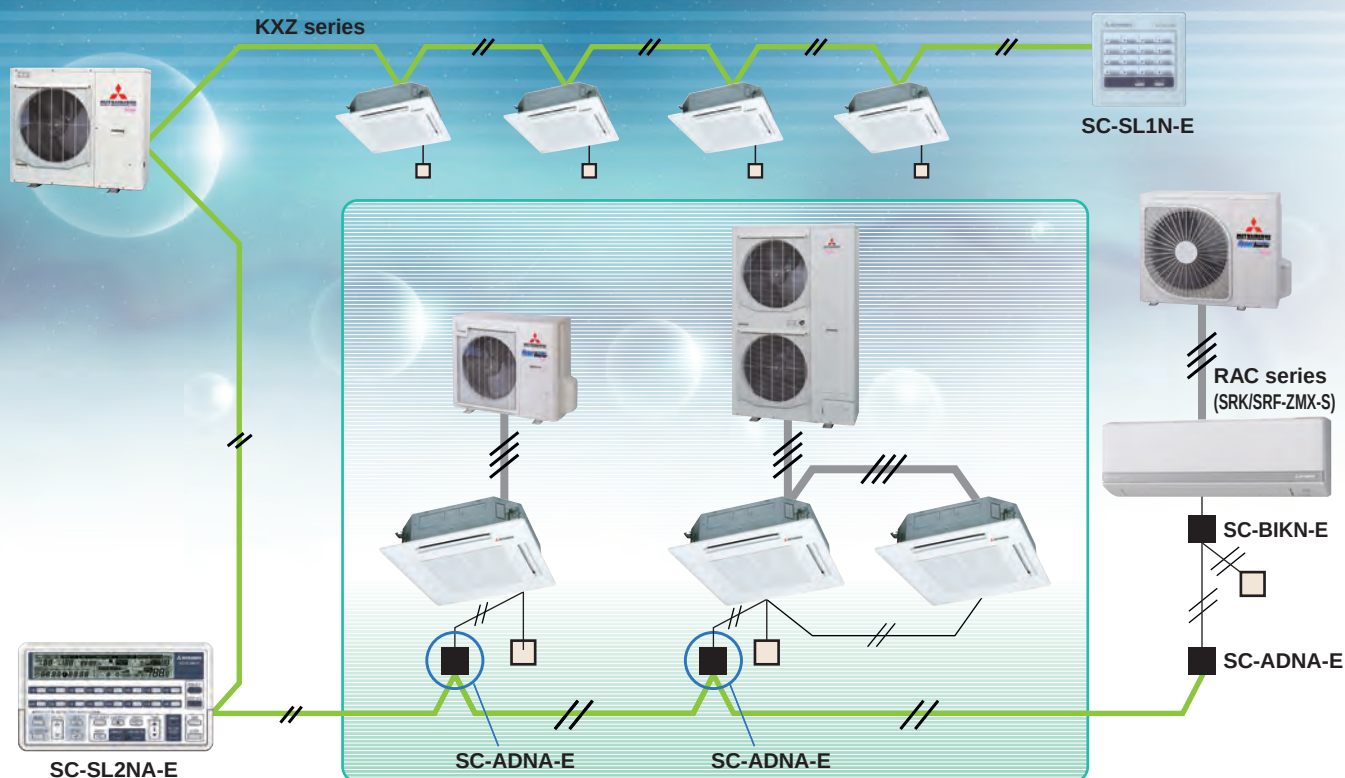
Thermistor (option)

SC-THB-E3

In case sensor in the indoor units or the remote control sensor can not sense the room temperature correctly, or individual remote control in each room is not required but only sensor is required (as when center control system is in place), install SC-THB-E3 at proper place in the rooms.



Control System SUPERLINK-I



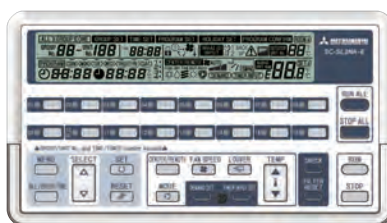
Central Control

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. It can allow connection with a weekly timer without using any interface.

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.

PC windows central control

SC-WGWNB256-A/B* SC-WGWNB-A/B

(SC-WGWNB256-B/SC-WGWNB-B are with electric power calculation function)



Production by order

In case of SC-WGWNB256-A/B, 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.

BMS interface unit

SC-BGWNA256-A/B* SC-BGWNA-A/B (BACnet gateway)

(SC-BGWNA256-B/BGWNA-B are with electric power calculation function)



Production by order

In case of SC-BGWNA256-A/B, 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 centrally from a BMS.

In case of SC-BGWNA-B/BGWNA256-B, communication test by qualified person regarding electric cost calculation function is required before commissioning.

SC-LGWNA-A* (LonWorks gateway)



Production by order

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

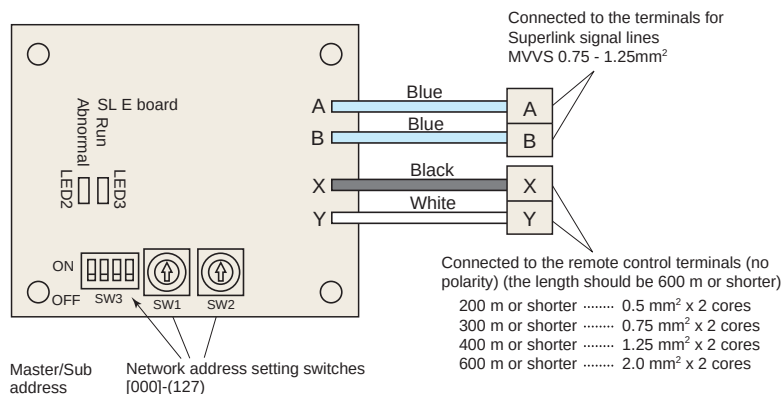
SUPERLINK E BOARD (SC-ADNA-E)

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).

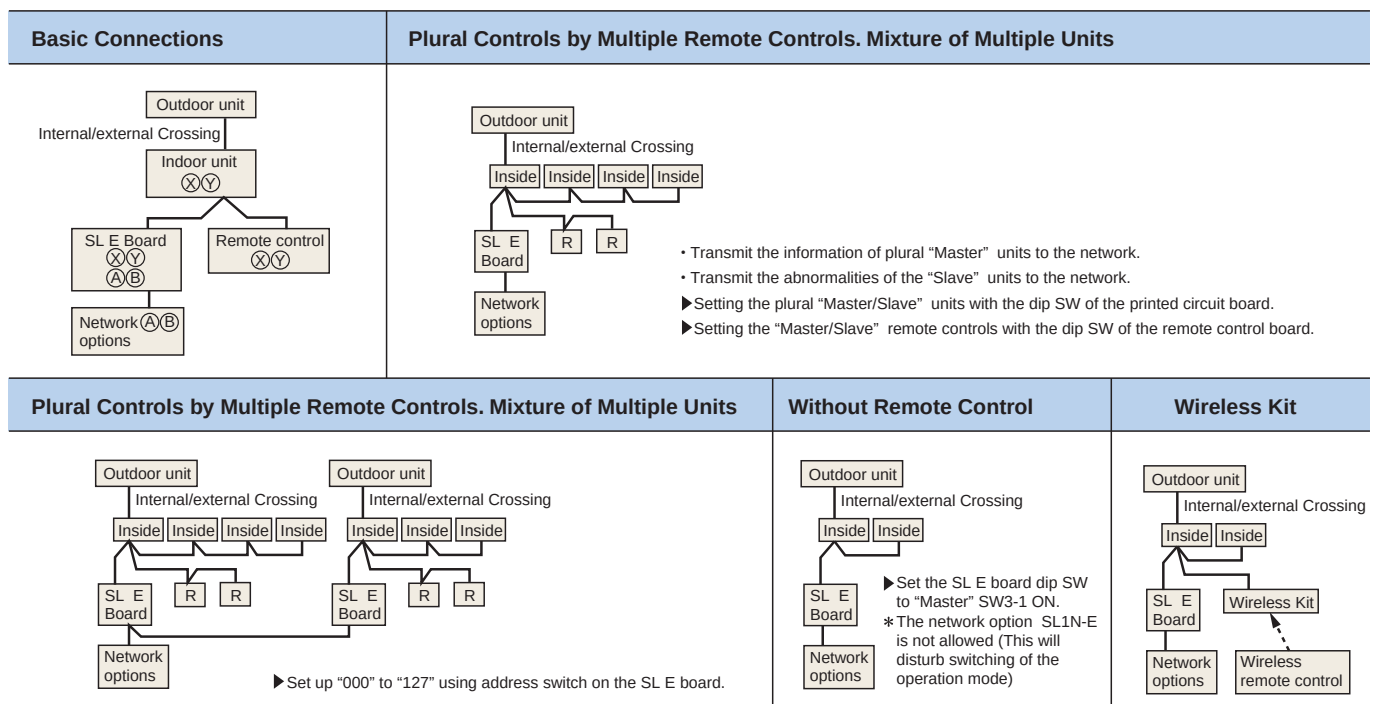
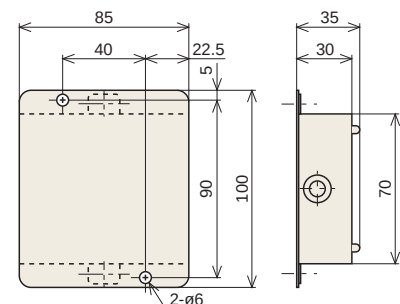
(1) Functions

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

(2) Wiring connection diagram



(3) Metal box dimension (unit:mm)



External switch connection CnT

All indoor units are equipped with an additional connection point-CnT-to connect indoor units to an external ON/OFF switch; e.g. time clock, fire alarm, etc.



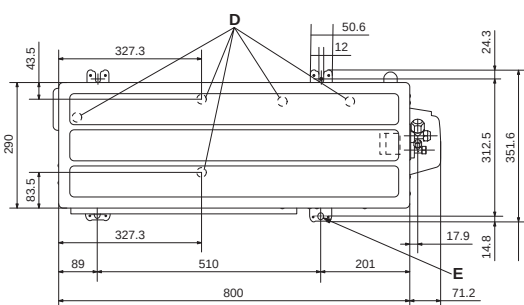
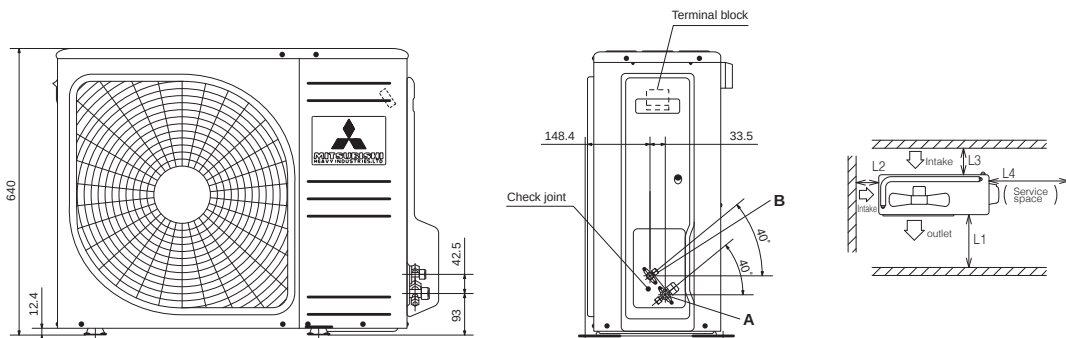
Remote surveillance system



Card key on-off

OUTDOOR UNIT DIMENSIONS (unit:mm)

SRC40ZMX-S, 50ZMX-S, 60ZMX-S



Examples of installation	1	2	3
L1	Open	280	280
L2	100	75	Open
L3	100	80	80
L4	250	Open	250

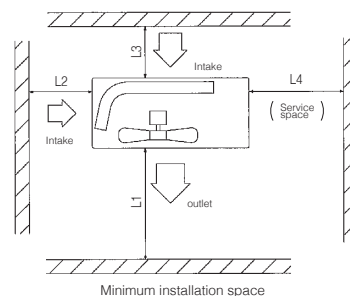
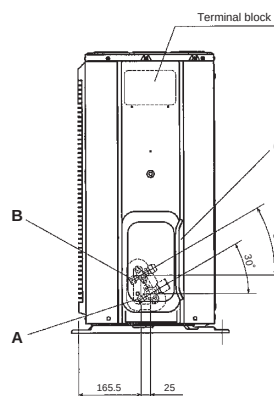
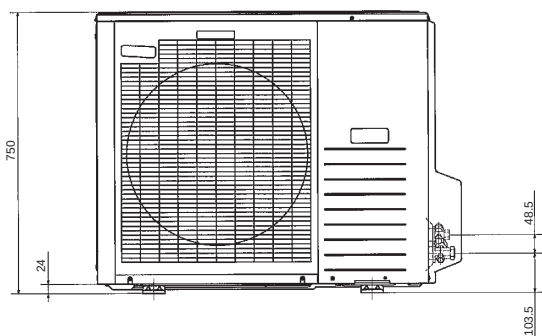
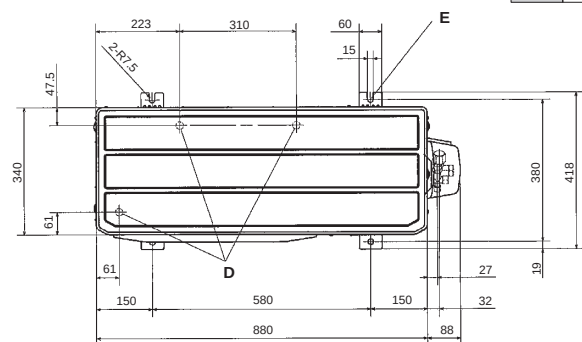
Mark	Item	
A	Refrigerant gas side pipe connection tap	ø12.7(flare)
B	Refrigerant liquid side pipe connection tap	ø6.35(flare)
D	Drain discharge port	ø20.5x5places
E	Anchor bolt hole	M10x4places

- Notes:
- (1) It must not be surrounded by walls on the four sides.
 - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
 - (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
 - (4) Leave a 1m or larger space above the unit.
 - (5) A wall in front of the blower outlet must not exceed the units height.
 - (6) The unit name plate is attached on the lower right corner of the front panel.

FDC71VNX

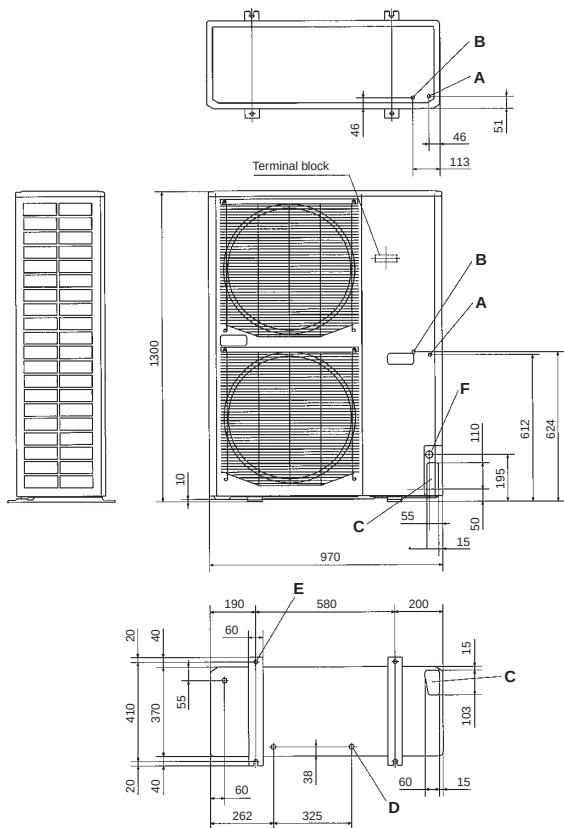
Mark	Item	
A	Service valve connection (gas side)	ø15.88(5/8") (Flare)
B	Service valve connection (liquid side)	ø9.52(3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x3places
E	Anchor bolt hole	M10x4places

- Notes:
- (1) It must not be surrounded by walls on the four sides.
 - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more the 15mm.
 - (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
 - (4) Leave 1m or more space above the unit.
 - (5) A wall in front of the blower outlet must not exceed the units height.
 - (6) The model name label is attached on the lower right corner of the front.



Examples of installation	1	2	3
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

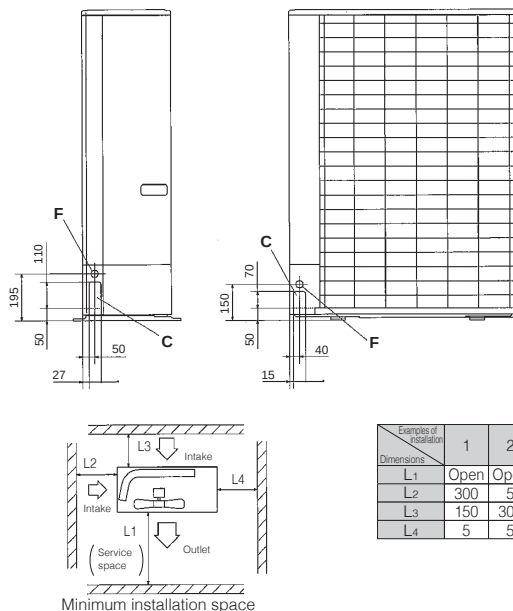
**FDC100VNX, 100VSX, 125VNX, 125VSX,
140VNX, 140VSX**



Mark	Item	
A	Service valve connection of the attached connecting pipe(gas side)	ø15.88(5/8")(Flare)
B	Service valve connection(liquid side)	ø9.52(3/8")(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x3places
E	Anchor bolt hole	M10x4places
F	Cable draw-out hole	ø30(front) ø45(side) ø50(back)

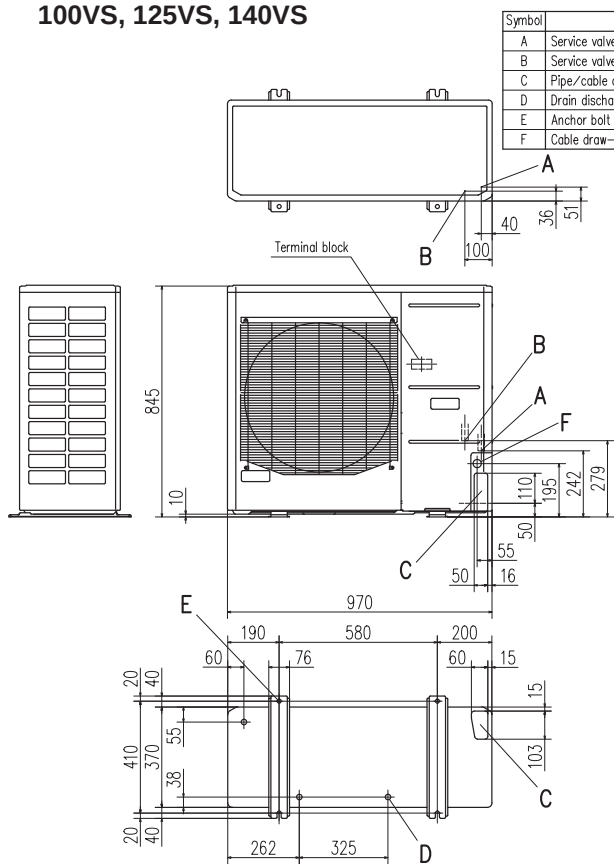
Notes:

- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the units height.
- (6) The model name label is attached on the lower right corner of the front panel.
- (7) Connect the Service valve with local pipe by using the pipe of the attachment. (Gas side only)



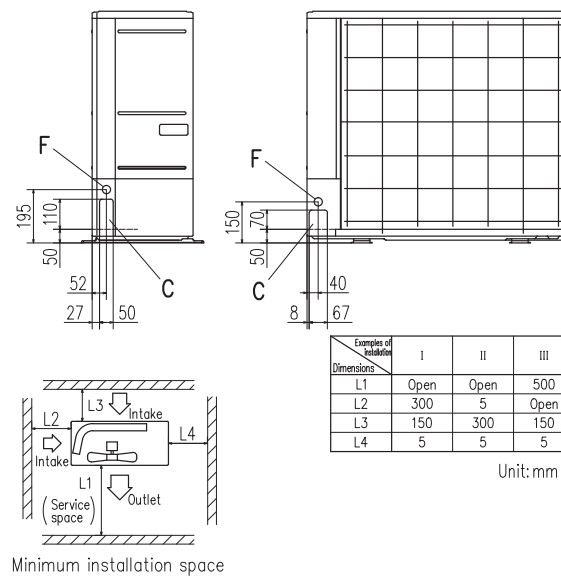
Examples of installation Dimensions	1	2	3
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

FDC100VN, 125VN, 140VN
100VS, 125VS, 140VS



Symbol	Content
A	Service valve connection (gas side) ϕ15.88 (5/8") (Flare)
B	Service valve connection (liquid side) ϕ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole ϕ20×3places
E	Anchor bolt hole M10×4places
F	Cable draw-out hole ϕ30×3places

Notes	(1) It must not be surrounded by walls on the four sides. (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm. (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction. (4) Leave 1m or more space above the unit. (5) A wall in front of the blower outlet must not exceed the units height. (6) The model name label is attached on the lower right corner of the front panel.
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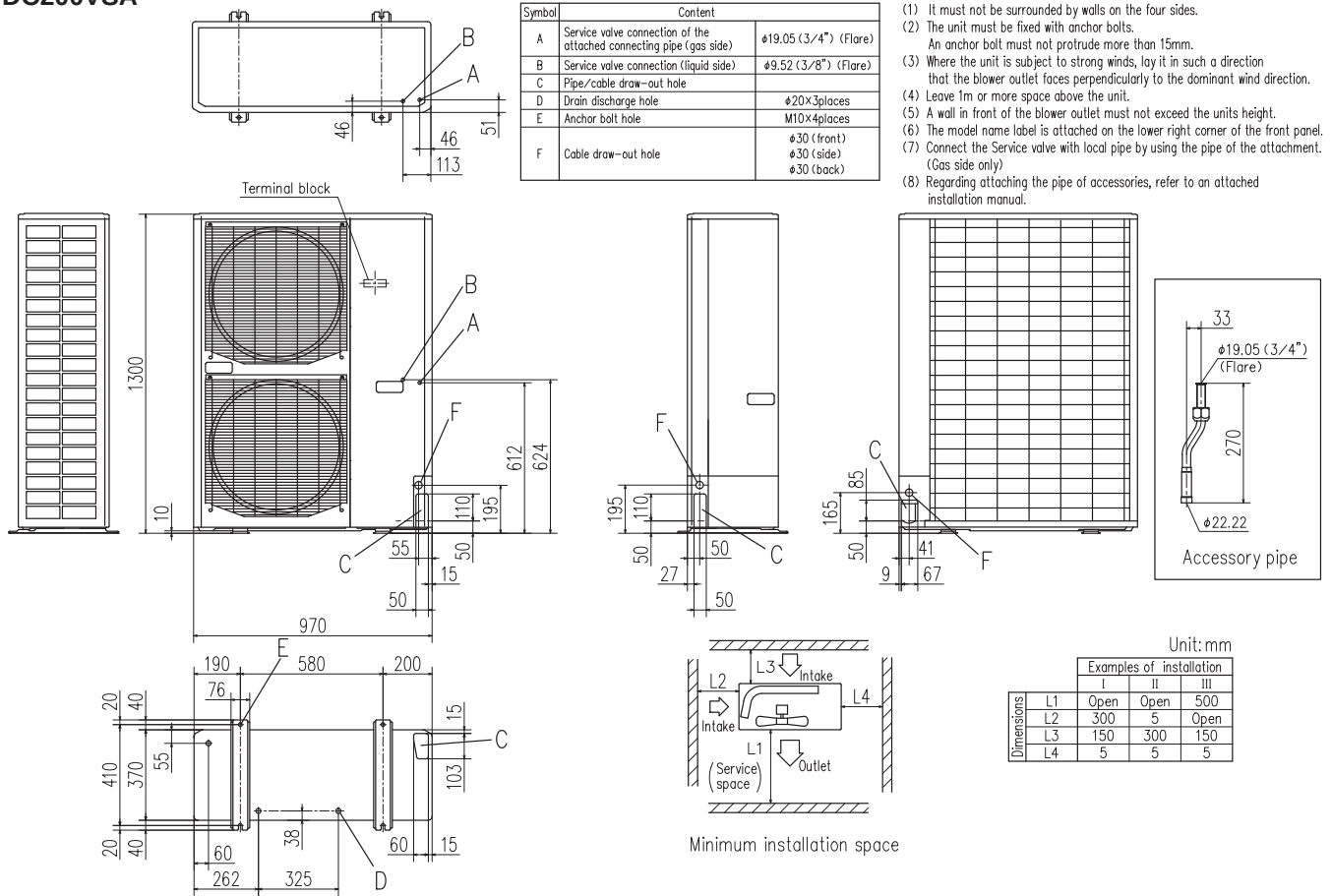


Examples of Installation Dimensions	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

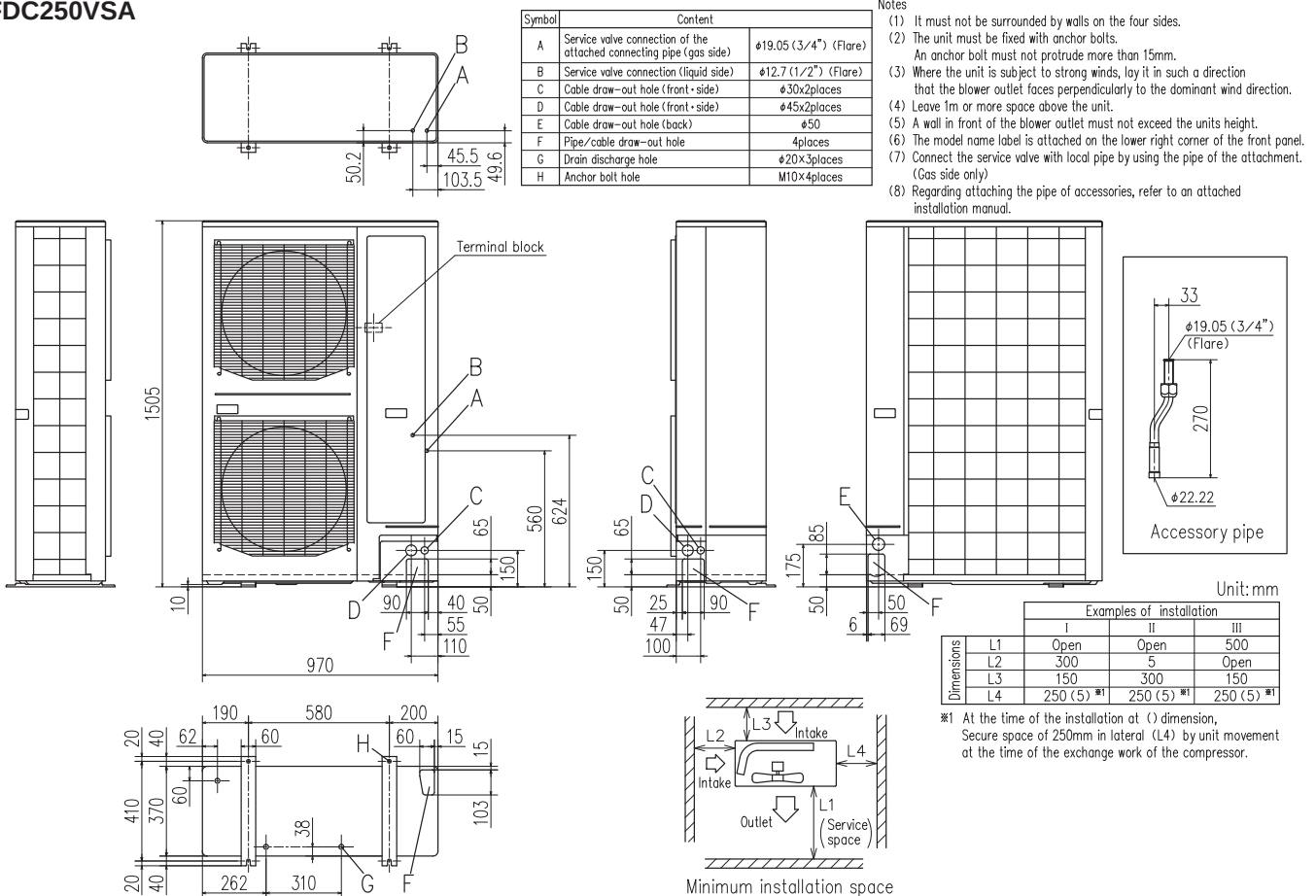
Unit: mm

OUTDOOR UNIT DIMENSIONS (unit:mm)

FDC200VSA



FDC250VSA



Technical drawing of the C71VNP air conditioning unit, showing dimensions in millimeters (mm).

Top View Dimensions:

- Overall Width: 800
- Overall Depth: 312.5
- Distance from Left Wall to Unit Start: 290
- Distance from Unit End to Right Wall: 24.3
- Distance from Left Wall to Unit End: 510
- Distance from Unit Start to Right Wall: 201
- Distance from Left Wall to Unit Start (Internal): 89
- Distance from Unit End to Right Wall (Internal): 17.9
- Distance from Left Wall to Unit Start (External): 83.5
- Distance from Unit End to Right Wall (External): 71.2
- Distance from Left Wall to Unit Start (Internal, Top): 90.6
- Distance from Unit End to Right Wall (Internal, Top): 14.8
- Distance from Left Wall to Unit Start (Internal, Top): 43.5
- Distance from Unit End to Right Wall (Internal, Top): 12
- Distance from Left Wall to Unit Start (Internal, Top): 35.6
- Distance from Unit End to Right Wall (Internal, Top): 50.6
- Distance from Left Wall to Unit Start (Internal, Top): 38.6
- Distance from Unit End to Right Wall (Internal, Top): 12
- Distance from Left Wall to Unit Start (Internal, Top): 327.3
- Distance from Unit End to Right Wall (Internal, Top): 161

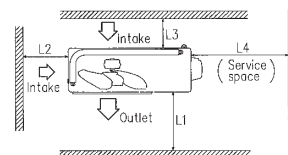
Front View Dimensions:

- Overall Height: 640
- Overall Width: 800
- Distance from Top to Unit Start: 12.4
- Distance from Unit End to Bottom: 9.3
- Distance from Unit Start to Unit End: 42.5

Symbol	Content	
A	Service valve connection (gas side)	ø12.7 (1/2") (Flare)
B	Service valve connection (liquid side)	ø6.35 (1/4") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x5places
F	Anchor bolt hole	M10x4places

Notes

- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the unit's height.
- (6) The model name label is attached on the lower right corner of the front panel.



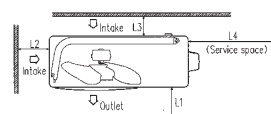
Minimum installation space

Examples of installation Dimensions	I	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

[illegible]

Note

- Note
- (1) It must not be surrounded by walls on four sides.
 - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
 - (3) Where the unit is subjected to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
 - (4) Leave 1m or more space above the unit.
 - (5) A wall in front of the blower outlet must not exceed the unit's height.
 - (6) The model name label is attached on the lower right corner of the front panel.



Minimum installation space

Examples of installation Dimensions	I	II	III
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

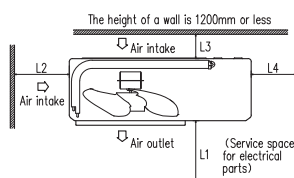
Symbol	Content
A	Service valve connection (gas side) $\phi 15.88 (5/8")$ (Flare)
B	Service valve connection (liquid side) $\phi 6.35 (1/4")$ (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 3$ pieces
E	Anchor bolt hole $M10 \times 4$ pieces

[illegible]

Symbol	Content	
A	Service valve connection (gas side)	φ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	φ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ20×3 places
E	Anchor bolt hole	M10×4 places
F	Cable draw-out hole	φ30×3 places

Notes

- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet face is perpendicular to the dominant wind direction.
- (4) Leave 1m or more space above the unit.
- (5) A wall in front of the blower outlet must not exceed the unit's height.
- (6) The model name label is attached on the service panel.



Minimum installation space

Examples of Dimensions	I	II	III
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

Unit: mm

ENERGY LABEL [FOR EU/EEA AREA ONLY]

Several radical design changes and engineering developments have brought about a vast improvement in energy efficiency and environmental protection.

ENERGY LABEL

SEER and SCOP is defined in European regulations listed below.

No.626/2011 of 4 May 2011: energy labeling of air-conditioners (below cooling capacity 12kW).

No.206/2012 of 6 March 2012: requirement for air-conditioners and comfort fans.

Seasonal efficiency is the new way of rating the true efficiency of heating and cooling products over an entire year.

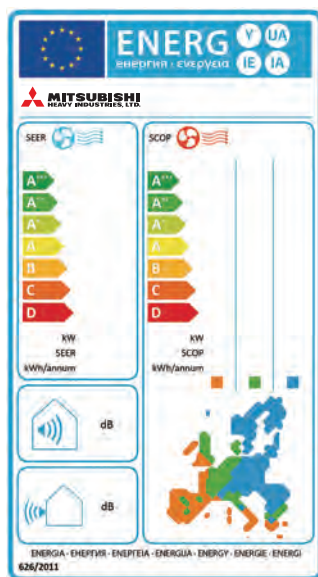
Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

The new Seasonal Efficiency rating system that must be used for heating and cooling by all manufacturers are;

SEER - Seasonal Efficiency Ratio (value in cooling)

SCOP - Seasonal Coefficient of Performance (value in heating)

The new rating system will indicate the true efficiency of the energy using product at specified condition.



Employment of lead-free solder

Adapted to RoHS directive

RoHS:Restriction of Hazardous substances

In order to avoid the release of hazardous substances into the environments, all models have utilized lead-free solder application. It has been considered to be difficult to use lead-free solder for practical applications because it requires higher solder temperatures at assembly, which can jeopardize reliability. However our PbF soldering method can produce a higher quality lead-free printed circuit board.

Employment of R410A

All models use refrigerant R410A characterized by the ozone depletion coefficient being 0.

Excellent Energy Saving

High performance and excellent energy savings are achieved at the same time by heat exchanger's increased capacity and employment of high efficiency DC motor.

Indoor unit	FDT40VF	FDT50VF	FDT60VF	FDT71VF1	FDT100VF2	FDT100VF2	FDT40VFx2	FDT50VFx2	FDT50VFx2
Outdoor unit	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)	A++/A+	A++/A+	A++/A	A+/A+	A+/A	A+/A	A++/A+	A+/A	A+/A
SEER	7.57	6.91	7.69	5.72	5.84	5.79	5.68	5.92	5.88
SCOP (Average climate)	4.16	4.09	3.86	4.09	3.96	3.95	4.10	3.85	3.84
Pdesignc	kW	4.0	5.0	5.6	7.1	10.0	10.0	7.1	10.0
Pdesignh (@-10°C)	kW	4.8	5.1	5.9	6.5	13.5	13.5	7.3	13.1
Annual electricity consumption (cooling/heating)	kWh/a	185/1617	254/1748	255/2139	435/2226	600/4778	605/4782	438/2494	592/4768
Refrigerant (GWP)	R410A (1975)								
Designated heating season	Average								
Indoor unit	FDT100VF2	FDT100VF2	FDT50VFx2	FDT50VFx2	FDT71VF1	FDT100VF2	FDT100VF2	FDT40VF	FDT50VF
Outdoor unit	FDC100VN	FDC100VS	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZMX-S	SRC50ZMX-S
Energy class (cooling/heating)	A+/A	A/A	A+/A	A+/A	A++/A+	A++/A+	A++/A+	A++/A	A+/A
SEER	5.61	5.57	5.89	5.85	6.14	6.73	6.78	6.53	6.01
SCOP (Average climate)	3.92	3.91	3.81	3.81	4.27	4.11	4.52	3.96	3.85
Pdesignc	kW	10.0	10.0	10.0	10.0	7.1	9.0	10.0	4.0
Pdesignh (@-10°C)	kW	9.7	9.7	9.5	9.5	5.7	8.1	8.1	4.0
Annual electricity consumption (cooling/heating)	kWh/a	625/3466	629/3470	595/3488	599/3492	405/1871	468/2756	516/2507	215/1416
Refrigerant (GWP)	R410A (1975)								
Designated heating season	Average								
Indoor unit	FDT60VF	FDT40VFx2	FDT50VFx2	FDT50VFx2	FDT50VFx2	FDT50VFx2	FDT71VF1	FDT100VF2	FDT100VF2
Outdoor unit	SRC60ZMX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)	A+/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A+	A/A+
SEER	5.76	5.31	5.23	5.19	5.17	5.13	5.24	5.22	5.19
SCOP (Average climate)	3.80	3.88	3.87	3.86	3.84	3.84	3.90	4.10	4.10
Pdesignc	kW	5.6	7.1	10.0	10.0	10.0	10.0	7.1	10.0
Pdesignh (@-10°C)	kW	5.9	6.8	10.2	10.2	9.4	9.4	7.0	13.0
Annual electricity consumption (cooling/heating)	kWh/a	341/2172	468/2455	670/3692	674/3695	678/3424	682/3428	475/2513	670/4437
Refrigerant (GWP)	R410A (1975)								
Designated heating season	Average								

R410A refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.

Indoor unit		FDU100VF2	FDU100VF2	FDU100VF2	FDU100VF2	FDU100VF2	FDM40VF	FDM50VF	FDM60VF	FDM71VF1
Outdoor unit		FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX
Energy class (cooling/heating)		B/A	B/A	A+/A+	A++/A+	A++/A+	A+/A+	A+/A+	A++/A+	A/A
SEER		5.06	5.03	5.71	6.86	6.36	6.01	5.68	6.42	5.24
SCOP (Average climate)		3.94	3.94	4.00	4.20	4.13	4.15	4.36	4.37	3.90
Pdesignc	kW	10.0	10.0	7.1	9.0	10.0	4.0	5.0	5.6	7.1
Pdesignh (@-10°C)	kW	9.3	9.3	5.7	8.1	8.1	3.5	4.3	5.4	7.0
Annual electricity consumption (cooling/heating)	kWh/a	692/3303	696/3307	436/1996	459/2703	551/2746	233/1182	309/1382	306/1731	475/2513
Refrigerant (GWP)		R410A (1975)								
Designated heating season		Average								

Indoor unit		FDM100VF2	FDM100VF2	FDM40VFx2	FDM50VFx2	FDM50VFx2	FDM100VF2	FDM100VF2	FDM50VFx2	FDM50VFx2
Outdoor unit		FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC100VN	FDC100VS
Energy class (cooling/heating)		A/A+	A/A+	A+/A+	A/A	A/A	B/A	B/A	B/A	B/A
SEER		5.22	5.19	5.61	5.14	5.11	5.06	5.03	4.81	4.78
SCOP (Average climate)		4.10	4.10	4.05	3.88	3.87	3.94	3.94	3.82	3.81
Pdesignc	kW	10.0	10.0	7.1	10.0	10.0	10.0	10.0	10.0	10.0
Pdesignh (@-10°C)	kW	13.0	13.0	7.0	10.0	10.0	9.3	9.3	9.3	9.3
Annual electricity consumption (cooling/heating)	kWh/a	670/4437	675/4441	444/2422	681/3611	685/3614	692/3303	696/3307	728/3413	732/3416
Refrigerant (GWP)		R410A (1975)								
Designated heating season		Average								

Indoor unit		FDM71VF1	FDM100VF2	FDM100VF2	FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG	FDE100VG
Outdoor unit		FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)		A+/A+	A++/A+	A++/A+	A++/A	A++/A	A++/A+	B/A+	A+/A+	A+/A+
SEER		5.71	6.86	6.36	6.46	6.10	6.72	4.87	5.89	5.84
SCOP (Average climate)		4.00	4.20	4.13	3.93	3.92	4.08	4.00	4.18	4.17
Pdesignc	kW	7.1	9.0	10.0	4.0	5.0	5.6	7.1	10.0	10.0
Pdesignh (@-10°C)	kW	5.7	8.1	8.1	3.0	3.8	4.3	6.0	11.2	11.2
Annual electricity consumption (cooling/heating)	kWh/a	436/1996	459/2703	551/2746	217/1069	288/1358	292/1475	511/2102	595/3754	599/3758
Refrigerant (GWP)		R410A (1975)								
Designated heating season		Average								

Indoor unit		FDE40VGx2	FDE50VGx2	FDE50VGx2	FDE100VG	FDE100VG	FDE50VGx2	FDE50VGx2	FDE71VG	FDE100VG
Outdoor unit		FDC71VNX	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP
Energy class (cooling/heating)		A/A+	A/A	A/A	A/A	A/A	A/A	A/A	A++/A+	A++/A+
SEER		5.26	5.53	5.49	5.43	5.39	5.16	5.13	6.35	6.63
SCOP (Average climate)		4.09	3.94	3.94	3.91	3.90	3.81	3.80	4.22	4.25
Pdesignc	kW	7.1	10.0	10.0	10.0	10.0	10.0	10.0	7.1	9.0
Pdesignh (@-10°C)	kW	6.0	10.8	10.8	7.9	7.9	7.8	7.8	5.8	8.2
Annual electricity consumption (cooling/heating)	kWh/a	473/2054	634/3836	638/3840	645/2830	649/2833	679/2868	683/2872	392/1925	475/2704
Refrigerant (GWP)		R410A (1975)								
Designated heating season		Average								

Indoor unit		FDE100VG	SRK71ZM-S	SRK100ZR-S	SRK50ZMX-Sx2	SRK50ZMX-Sx2	SRK50ZMX-Sx2	SRK50ZMX-Sx2	FD71VD1	FD100VD2
Outdoor unit		FDC100VNP	FDC71VNP	FDC100VNP	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC71VNX	FDC100VNX
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A/A+	A/A+	A/A+	A/A+	B/A	A/A
SEER		6.73	6.60	6.60	5.51	5.47	5.46	5.47	4.80	5.20
SCOP (Average climate)		4.44	4.47	4.40	4.00	4.00	4.00	4.00	3.81	3.80
Pdesignc	kW	10.0	7.1	10.0	10.0	10.0	10.0	10.0	7.1	10.0
Pdesignh (@-10°C)	kW	8.1	5.7	7.2	11.6	11.6	8.2	8.2	6.7	13.0
Annual electricity consumption (cooling/heating)	kWh/a	521/2556	377/1786	531/2289	636/4060	640/4063	642/2869	646/2872	518/2464	673/4792
Refrigerant (GWP)		R410A (1975)								
Designated heating season		Average								

Indoor unit		FD100VD2	FD100VD2	FD100VD2	FD71VD1	FD100VD2	FD100VD2
Outdoor unit		FDC100VSX	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP
Energy class (cooling/heating)		A/A	B/A	B/A	A/A	A+/A+	A/A
SEER		5.17	5.02	4.99	5.24	5.69	5.41
SCOP (Average climate)		3.80	3.80	3.80	3.91	4.01	3.94
Pdesignc	kW	10.0	10.0	10.0	7.1	9.0	10.0
Pdesignh (@-10°C)	kW	13.0	9.3	9.3	5.5	8.1	8.1
Annual electricity consumption (cooling/heating)	kWh/a	678/4795	697/3423	701/3427	475/1972	555/2826	647/2875
Refrigerant (GWP)		R410A (1975)					
Designated heating season		Average					

Before starting use

Heating performance

The heating performance values (kW) described in 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 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 break.

Use in acidic or alkaline atmosphere

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

Use in places with high ceilings

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

Refrigerant leakage

The refrigerant (R410A) used for Air conditioner is non-toxic and inflammable in its original state.

However, in consideration of a state where the refrigerant leaks into the room, measures against refrigerant leaks must be taken in small rooms where the tolerable level could be exceeded. Take measures by installing ventilation devices, etc.

Use in snowy areas

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

•Snow prevention

Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter and freeze in the outdoor unit.

•Snow piling

In areas with heavy snow fall, the piled snow could block the air intake port. In this case, a frame that is 50cm or higher than the estimated snow fall must be installed underneath the outdoor unit.

Automatic defrosting device

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

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

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

Servicing the air-conditioner

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

⚠ Safety Precautions

Air-conditioner usage target

The air-conditioner described in this catalog is a dedicated cooling/heating device for human use.

Do not use it for special applications such as the storage of foodstuffs, animals or plants, precision devices or valuable art, etc.

This could cause the quality of the items to drop, etc.

Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

Before use

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

Installation

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

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

Usage place

Do not install in places where combustible gas could leak or where there are sparks.

Installation in a place where combustible gas could be generated, flow or accumulate, or places containing carbon fibers could lead to fires.



Mitsubishi Heavy Industries, Ltd.
Air-Conditioning & Refrigeration Division
Machinery Equipment & Infrastructure
16-5, Konan 2-chome, Minato-ku, Tokyo, 108-8215 Japan
<http://www.mhi.co.jp>

Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001



BIWAJIMA PLANT
Mitsubishi Heavy Industries, Ltd.
Air-conditioning & Refrigeration Systems Headquarters
Certified ISO 9001
Certificate Number : JQA-0109



MITSUBISHI HEAVY INDUSTRIES-
MAHAJAK AIR CONDITIONERS CO., LTD.
Certified ISO 9001
Certificate Number : 04100 1988 0813



Mitsubishi Heavy
Industries-Haier (Qingdao)
Air-conditioners Co., Ltd.
Certificate Number : 5170-5996-AQ-RCS-RUK

Certified ISO 14001



BIWAJIMA PLANT
Mitsubishi Heavy Industries, Ltd.
Air-conditioning & Refrigeration Systems Headquarters
Certificate Number : YKA4003822



MITSUBISHI HEAVY INDUSTRIES-
MAHAJAK AIR CONDITIONERS CO., LTD.
Certificate Number : 04104 1988 0813 05



Mitsubishi Heavy
Industries-Haier (Qingdao)
Air-conditioners Co., Ltd.
Certificate number : 01-1998-003



(COMPANY) participates in the ECC
programme for (PROGRAMME).
Check ongoing validity of certificate:
www.eurovent-certification.com or
www.certiflash.com

