

High Performance Air-Conditioning 2017



CE

50/60Hz

17P01E

FD series

Inverter Packaged Air-Conditioners



High Performance Air-Conditioning FDseries

The PAC range from Mitsubishi Heavy Industries Thermal systems is ideal for air conditioning offices, shops, restaurants, and bars ... as well as other commercial use. The versatility of the PAC range, offers you a wide selection of models in function of your installation needs.

The modern and attractive design of our indoor units is harmoniously integrated in the any atmosphere creating a pleasant and relaxing environment.

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New Generation FDT



Keep maximum comfort with minimal draft

Automatic energy saving control

Quiet operation

New!

Draft Prevention Panel (Option)

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

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

User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3, RCN-T-5AW-E2).

When unit operation is stopped, additional flaps is closed to keep good looking.



*It can also prevent user from being directly blown by hot drafts in heating mode.

New!

Motion Sensor (Option)

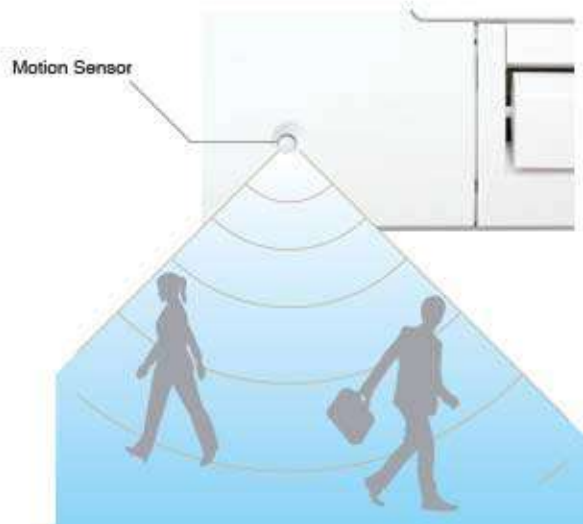
Two energy saving control by detecting human moving

Power Control

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

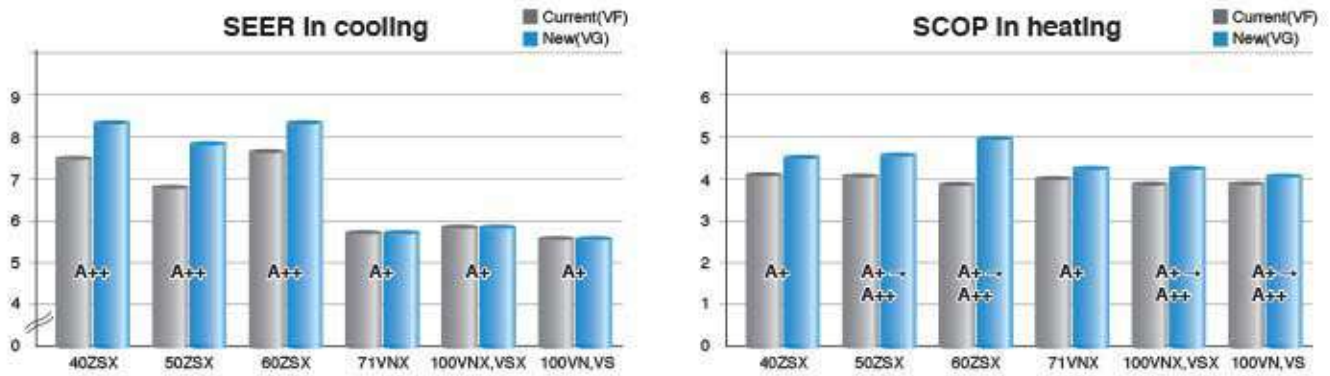
Auto-off

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



High energy efficiency with new technology

NEW FDT can achieve higher seasonal efficiency by Mitsubishi Heavy Industries latest technology.



● SEER and SCOP is defined in European regulations. Please refer to P70.

More quiet noise

New technology has realised quiet noise with keeping capacity and comfort.

A low noise is achieved by reducing the pressure fluctuation in an indoor unit. A fan guard attains both safety and quietness by flow.

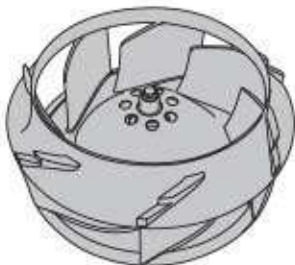


Improve the aerodynamic performance of the unit

New designed component can have better aerodynamic performance and achieve lower noise.

● New design turbo fan

● Fan guard (standard equipment)





 **GOOD DESIGN
AWARD 2016**
(in Japan)

The Good Design Award is Japan's only comprehensive design evaluation and recommendation initiative, originating with the "Good Design Products Selection System" founded in 1957.

It is now a global design award with participation from numerous Japanese and international companies and organizations. The "G Mark", the symbol of the Good Design Award, is known widely as a symbol of excellent design.

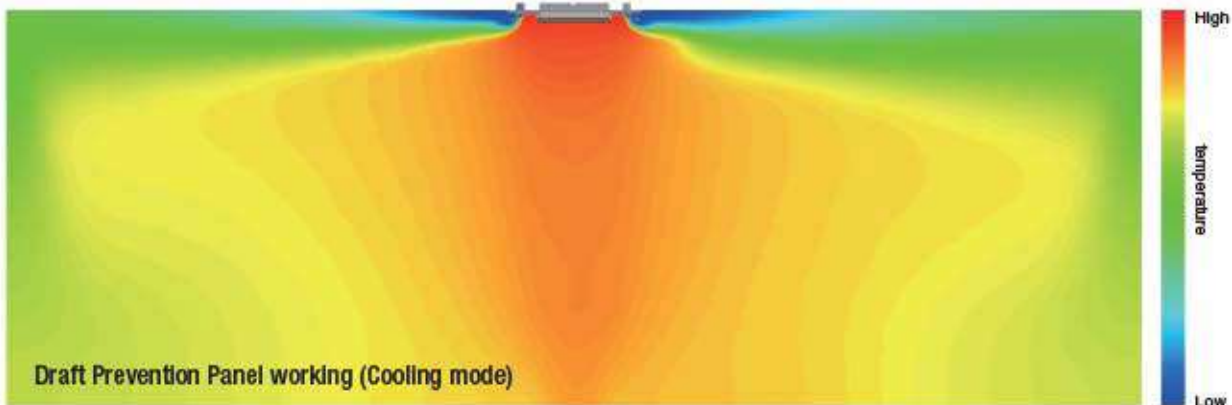
User



Draft Prevention Panel

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

Draft Prevention Panel Operating Image



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

Motion sensor

Energy saving control by detecting human moving

User



3 Step Control

Power Control

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

Stand by

Unit will go stand-by mode when no activity is detected. When unit will detect activity again, unit will re-start operation automatically.

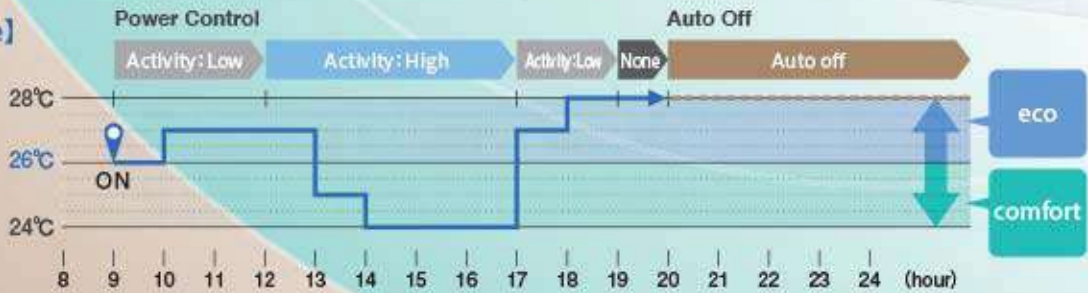
Auto Off

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

[temperature]

26°C

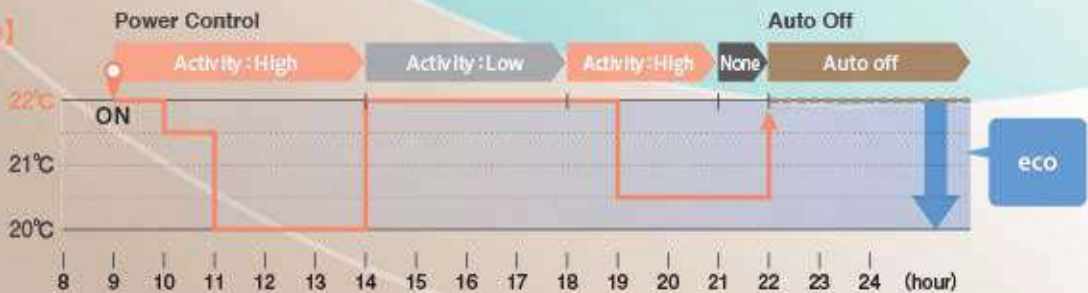
in cooling



[temperature]

22°C

in heating



Power Control Increased energy savings Low human activity	Power Control Increased comfort High human activity	Stand by Operation stops temporarily Absence for 1 hour	Auto off Operation stops completely More 12 hour absence
--	--	--	---

Operation mode and Control of Motion sensor		Human activity		Operation mode				
				Auto	Cool	Heat	Dry	Fan
Power Control	*1	Low	Cooling +2°C Heating +2°C	+2°C	+2°C	-	-	
		High	Cooling -2°C Heating -2°C	-2°C	-2°C	-	-	
Auto Off	*2		●	●	●	●	●	

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

Serviceability & workability

Easy and quick installation and maintenance

Builder Maintenance



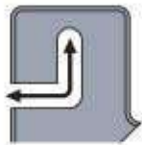
Quick positioning !

Indoor unit is easily positioned and installed

1 Adjustable easier positioning of unit by new slits

New shape of slit is suitable to install the unit with more flexibility, according to many kinds of suspending bolt pitch on site.

Any rectangular or squared pitch of suspending bolts are available with this slit.



2 New slit in panel allows easier installation on site.

Flexible positioning is available, which helps adjusting the direction of panel according to lines or pattern on the ceiling.



4 long slits are available.

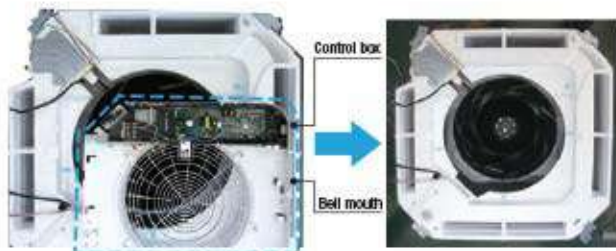


Quick installation and maintenance

1 Easy access to component part for easy maintenance.

1 The control box and bell mouth can be removed together.

2 Easy access to impeller and fan motor.



2 New shape of path of wiring

New shape of path gives easy wiring work for installation.



3 No need to remove screws to take off the controller cover.

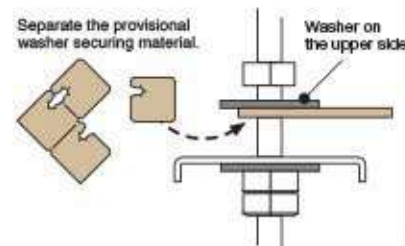
It is possible to loose and slide open the cover without remove of the screws.

This prevents the cover from falling and damaging to stuffs on site.



4 More safe installation by stopper of washer

When unit is installed with hook between washers, this stopper helps to install the unit safely, without adjusting washer.



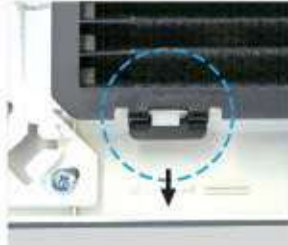


For smooth and easy working

Good help for installation and maintenance

1 Easy and flexible hook to remove the filter

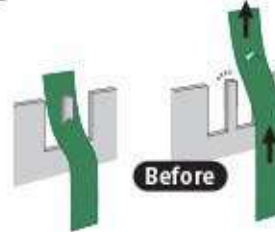
Hook of soft material helps to remove the filter without dust spreading.



Press the filter tab to the outside and remove the filter.

2 Surely fix the corner lid by strap

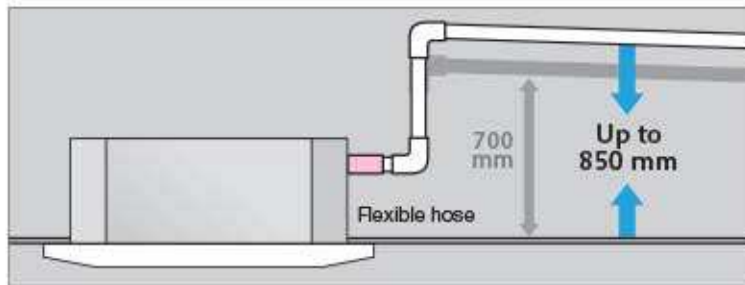
The direction of the strap hook part has been changed from longitudinal to lateral. Furthermore, a barb has been added to the hook pin to prevent the strap from coming off.



Easy to hook but not easy to loose

3 Drain-up-lift increases up to 850 mm (previous:700mm)

The drain can be lifted up to 850 mm from the ceiling surface.



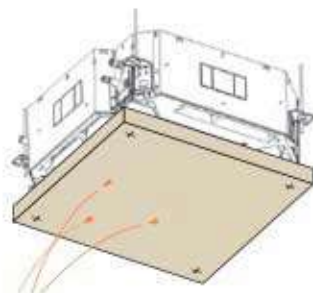
4 New port to check drain water flow

A water supply port has been provided in the piping lid for easier testing of the drain water flow. (The port is usually sealed with a rubber cap.)



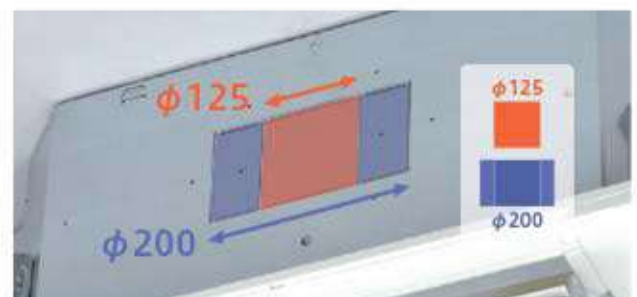
5 Re-use of packages during construction work

Package material (carton) help to protect the unit from unexpected welding spatter or coming dust to the new unit.



6 More flexible outlet for ducting

Both $\phi 125$ and $\phi 200$ (oval shaped) are available.





Simple use with advanced setting **REMOTE CONTROL**

Easy touch and Easy view with full dot Liquid Crystal display



RC-EX1A



RC-EX3

Bright screen

New!

New functions

Function Switch

The function switch allows you to select and set two functions that you desire among the six available functions shown.

These functions can be used by simply pressing the button after they are set, allowing you to use your preferable functions immediately.



1 High Power Mode

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



2 Energy Saving Mode

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



3 Quiet Mode

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



4 Home Leave Mode

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



5 Favorite Mode

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

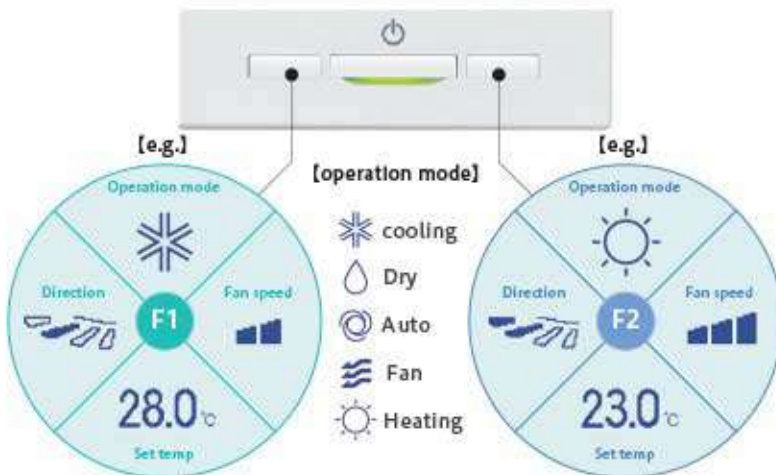


6 Filter Sign

Announces the due time for cleaning the air filter.

Favorite Mode

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



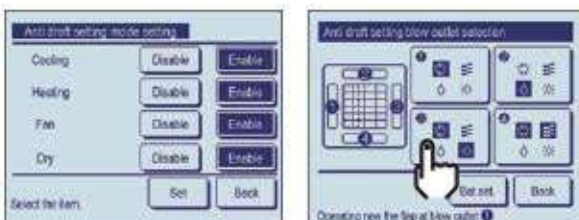
Adjusting Brightness of the Operation lamp

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



Draft prevention setting (only FDT series)

User can enable/disable the motion of panel with anti draft for each blow outlet for each operation mode.



Easy modification of Air Flow

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



Motion sensor control

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

- 1 Select Enable / Disable
Motion sensor control



Enable/Disable



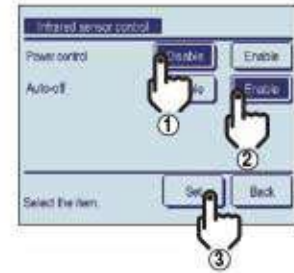
Select **Enable/Disable** for the motion sensor of the indoor unit connected to the R/C.

- 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable/Disable



Backup Control

Control restricted to two indoor units (two groups)

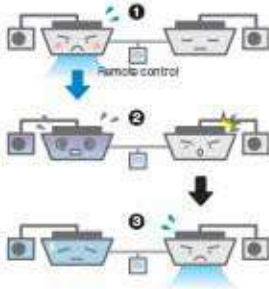


Fault backup control



Keep back up all the time!

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

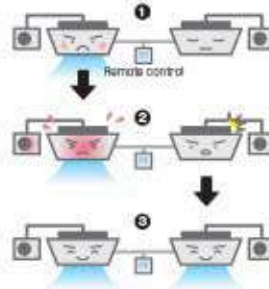


Capacity backup control



Maintains users' comfort!

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

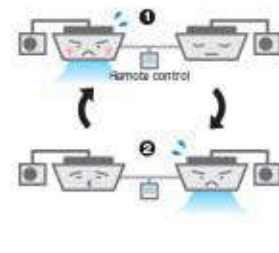


Rotational operation control



Energy saving and longer life!

By operating two indoor units alternately, their chronological changes are equalized. (The alternate operation cycle can be specified in a range from 10 hours to 990 hours in increments of 10 hours.)



Additional functions of External Input / Output

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



Remote surveillance system



Card key on-off

External Input

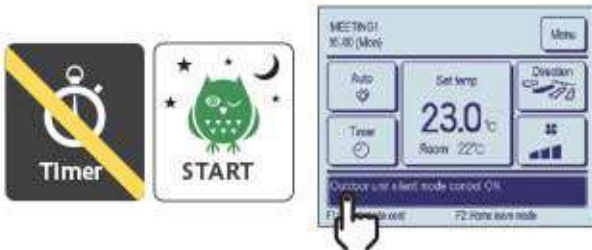
CNT (1-6) CNTA (1-2)	
Input	On/Off Permission/Prohibition Cooling/Heating Emergency Stop
Newly added	Set temp. shift Forced thermo-off IU operation stop Silent mode

External Output

CNT (New)	
2 Output	- Operation - Heating - Compressor ON (thermo-ON)
3 Output	- Inspection - Cooling (defrosting) - Fan operation - Fan operation with Phi or Hi - Fan operation with Me or Lo - Defrosting (oil return in heating operation) - Ventilation
4 Output	- Heater ON - Free cooling - IU overload alarm
5 Output	- Heater ON - Free cooling - IU overload alarm

Silent mode control

The Outdoor unit is controlled with priority on quietness. Silent mode control must be set to the F1 or F2 switch. User can start/stop the silent mode control with a single tap of a button.



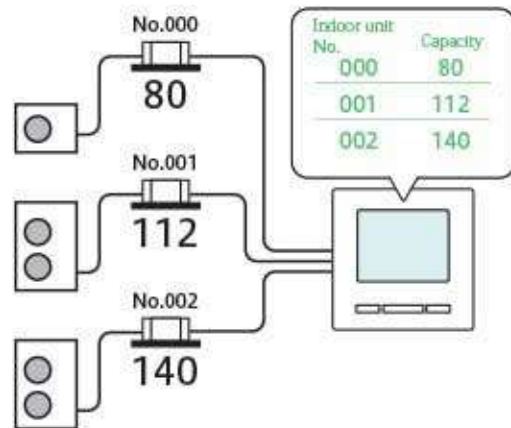
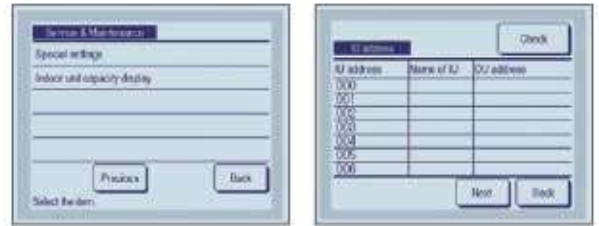
Language Switching

User can select from the following languages: English/German/French/Spanish/Italian/Dutch/Turkish/Portugal/Russian/Polish/Japanese/Chinese.



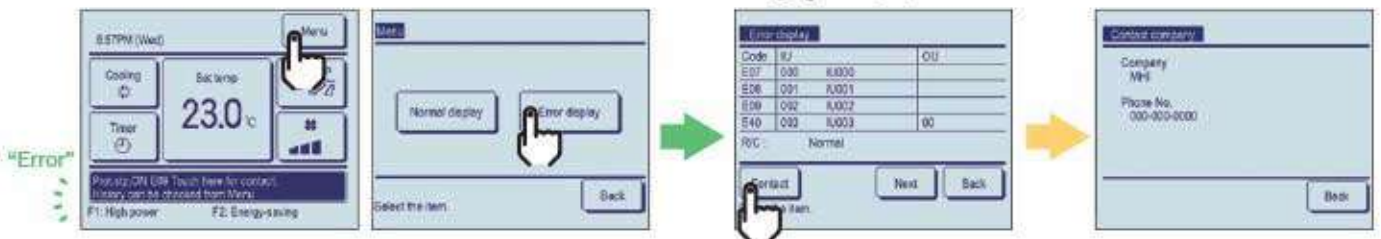
Indoor unit capacity display

Capacities of Indoor units connected to the RC-EX3 are displayed.



Contact company & Error display

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



New Wireless Kit & New Wireless Remote Controller

New Line-up

Model	Wireless kit
FDT	RCN-T-5AW-E2
FDTC	RCN-TC-24W-E2
FDE	RCN-E-E2
FDU	
FDUM	RCN-KIT4-E2
FDF	

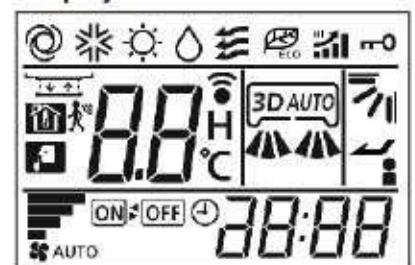
Function added

- 1) High power
- 2) Energy-saving
- 3) ON/OFF Timer by clock
- 4) Child lock
- 5) Silent mode control for Outdoor unit
- 6) Home leave mode

The functions and the operations will be Improved.



Display



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	●	●	●	●	-	●	●	●	-	-

NEW



SRC40ZSX-S (1.5HP)
SRC50ZSX-S (2.0HP)
SRC60ZSX-S (2.5HP)



FDC71VNX (3.0HP)



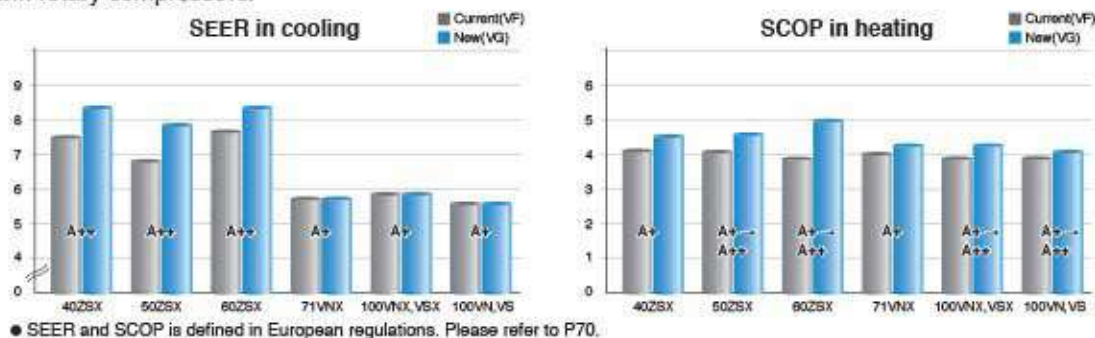
FDC100VNX/VSX (4.0HP)
FDC125VNX/VSX (5.0HP)
FDC140VNX/VSX (6.0HP)

Blue Fin

Blue Fin

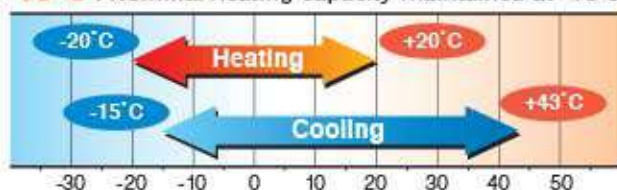
High efficiency (comparison of FDT series)

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



Strong heating (Hyper Inverter 3~6HP)

-20°C : Heating operation down to -20°C
 -15°C : Nominal heating capacity maintained at -15°C

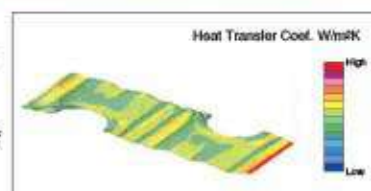


Max.heating capacity (kW)

	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

Heat exchanger (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.



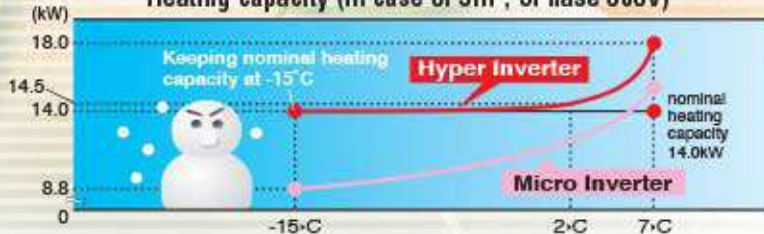
Leading powerful heating capacity in the industry

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.

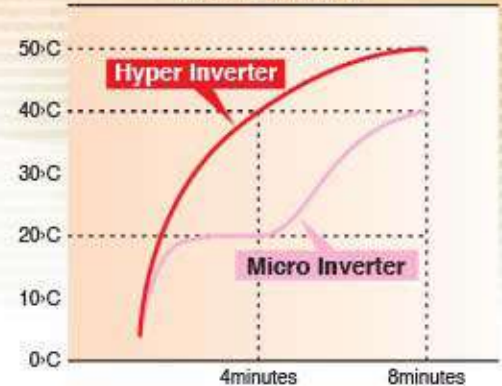
Heating capacity (in case of 5HP, 3Phase 380V)



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)	18.0kW	18.0kW

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

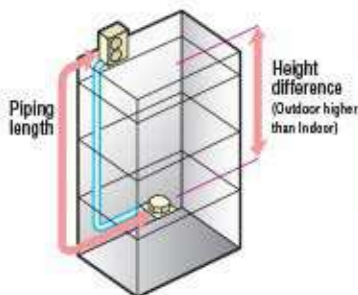
Heating capacity



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	-	-	-	-	-	●	●	●	●	●



FDC100V/VVS (4.0HP)
FDC125V/VVS (5.0HP)
FDC140V/VVS (6.0HP)



FDC200VSA (8.0HP)

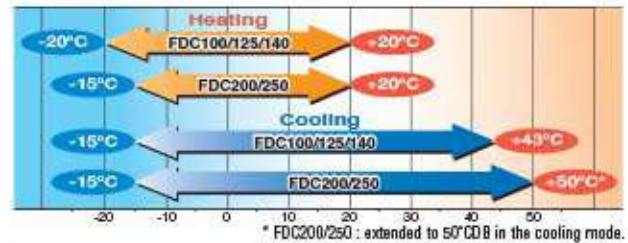


FDC250VSA (10.0HP)

Tropical Usage Mode

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.



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.



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.



Serviceability (Micro Inverter 10HP)

● Improved freedom of piping layout



● Four handles



● A transparent rain cover



Attached as a standard for easy maintenance.

● Wire Insertion holes for fall prevention



Located at the same level for easy transport and transfer.

● 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)



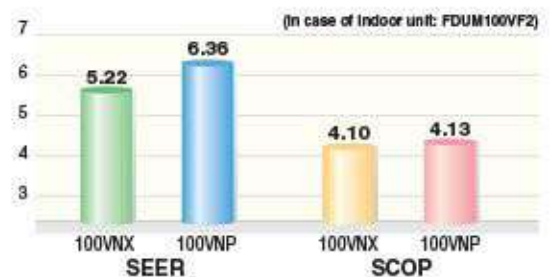
FDC100VNP (4.0HP)

Compact Design of outdoor units



High SEER & SCOP

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



* Please refer to P70.

All outdoor units (Hyper, Micro, Standard)

Fits into elevators



Easy installation



PRODUCT LINE UP

SINGLE SPLITS

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  NEW P.24	Set	1Phase	FDT40ZSXVG	FDT50ZSXVG	FDT60ZSXVG	FDT71VNXVG	FDT100VNXVG	
			3Phase					FDT100VSXVG	
		Indoor unit			FDT40VG	FDT50VG	FDT60VG	FDT71VG	FDT100VG
	Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX		
		3Phase					FDC100VSX		
	CEILING CASSETTE	4way compact (600 x 600mm) FDTC  P.32	Set	1Phase	FDTC40ZSXVF	FDTC50ZSXVF	FDTC60ZSXVF		
Indoor unit				FDTC40VF	FDTC50VF	FDTC60VF			
Outdoor unit			1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S			
		3Phase							
DUCT CONNECTED		High Static pressure FDU  P.36	Set	1Phase				FDU71VNXVF1	FDU100VNXVF2
				3Phase					FDU100VSXVF2
	Indoor unit					FDU71VF1	FDU100VF2		
	Outdoor unit	1Phase				FDC71VNX	FDC100VNX		
		3Phase					FDC100VSX		
	DUCT CONNECTED	Low/Middle Static pressure FDUM  P.41	Set	1Phase	FDUM40ZSXVF	FDUM50ZSXVF	FDUM60ZSXVF	FDUM71VNXVF1	FDUM100VNXVF2
			3Phase					FDUM100VSXVF2	
Indoor unit				FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2	
Outdoor unit		1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX		
		3Phase					FDC100VSX		
WALL MOUNTED		SRK  P.48	Set	1Phase					
	Indoor unit								
	Outdoor unit		1Phase						
CEILING SUSPENDED	FDE  P.52	Set	1Phase	FDE40ZSXVG	FDE50ZSXVG	FDE60ZSXVG	FDE71VNXVG	FDE100VNXVG	
			3Phase					FDE100VSXVG	
		Indoor unit			FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG
	Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX		
		3Phase					FDC100VSX		
	FLOOR STANDING	FDF  P.58	Set	1Phase				FDF71VNXVD1	FDF100VNXVD2
			3Phase					FDF100VSXVD2	
Indoor unit						FDF71VD1	FDF100VD2		
Outdoor unit		1Phase				FDC71VNX	FDC100VNX		
		3Phase					FDC100VSX		

Capacity Range (Nominal 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
FDT125VNXVG	FDT140VNXVG	FDT100VNVG	FDT125VNVG	FDT140VNVG			FDT71VNPVG	FDT90VNPVG	FDT100VNP1VG
FDT125VSXVG	FDT140VSXVG	FDT100VSVG	FDT125VSVG	FDT140VSVG					
FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG			FDT71VG	FDT100VG	FDT100VG
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					
									SRK100VNP1ZR
									SRK100ZR-S
									FDC100VNP
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					
FDV125VNXVD	FDV140VNXVD	FDV100VNV2	FDV125VNV2	FDV140VNV2			FDV71VNPVD1	FDV90VNPVD2	FDV100VNP1VD2
FDV125VSXVD	FDV140VSXVD	FDV100VSV2	FDV125VSV2	FDV140VSV2					
FDV125VD	FDV140VD	FDV100VD2	FDV125VD	FDV140VD			FDV71VD1	FDV100VD2	FDV100VD2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					

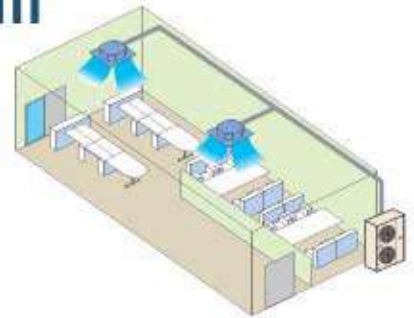
* Tropical Usage Mode

■ MULTI SYSTEM



































Twin / Triple / Double Twin Multi System

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






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 						
Wall Mounted SRK  (50・60) 						
Ceiling Suspended FDE 						
Floor Standing FDJ 						

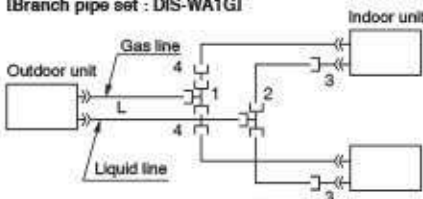
■ Combination of Indoor units

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

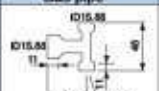
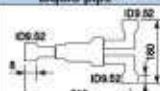

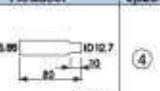
Models FDC71VNX, FDC100~140VN/VS
[Branch pipe set : DIS-WA1G]



(Example)

Item	Indoor unit combinations	Liquid pipe		Gas pipe	
		Main pipe	Branch pipe	Main pipe	Branch pipe
Model	FDC71				
	40+40				ø12.7X10.8
	50+50				ø15.88X11.0
	60+60	ø9.52X10.8	ø9.52X10.8	ø15.88X11.0	ø15.88X11.0
	71+71				

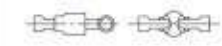
Notes (1) When 40-60 models of indoor units are applied to this combination, the reducer 3 supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size 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-WA1G)	Gas pipe		Liquid pipe		Reducer		Reducer	
	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol	
	①		②		③		④	

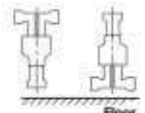
Notes (1) Symbol 1 to 4 in the drawing shows the symbols of branch piping parts in the chart respectively.
(2) Branch piping should always be arranged to have level or perpendicular position.

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

2-Way Branch

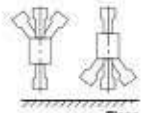


Mount — sections level with the floor.



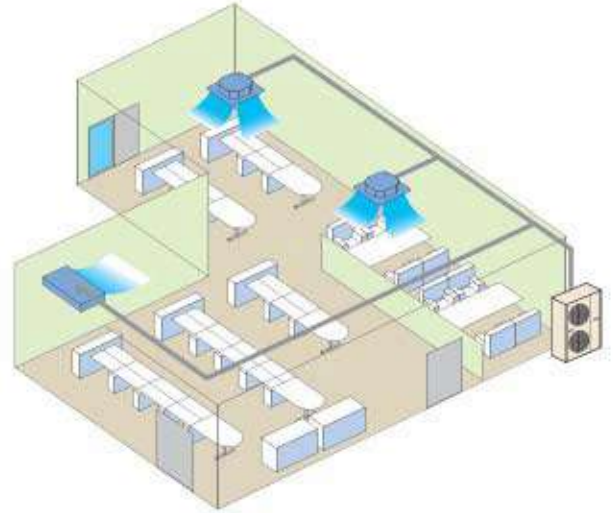
Mount — sections perpendicular to the floor.

3-Way Branch



V Multi System

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.



Applicable Indoor units

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

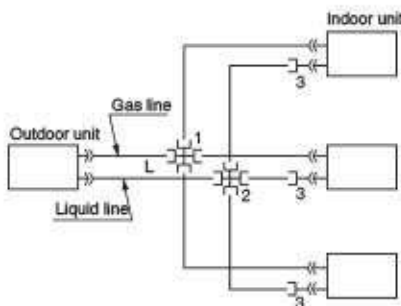
Combination of Indoor units

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

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

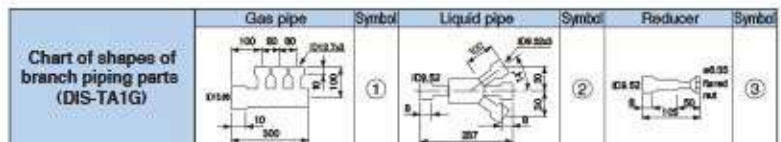
Model FDC140VN/VS
(Branch pipe set : DIS-TA1G)



(Example)

Model	Indoor unit combinations	Liquid pipe		Gas pipe	
		Main pipe	Branch pipe	Main pipe	Branch pipe
FDC140	50+50+50	ø9.52X10.8	ø9.52X10.8	ø15.88X11.0	ø12.7X10.8


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 connector). Accordingly be sure to select the liquid piping size ø9.52mm from branch to indoor unit.




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.

BENEFITS SUMMARY

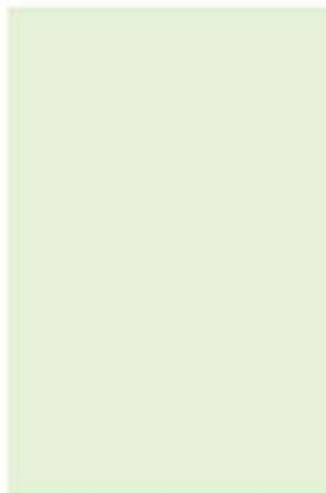
Indoor units

When using RC-EX3 (Remote control), functions with symbol  are available.
However, for RC-E5 (Remote control), functions with ※ are not available.

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.
	Draft 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 draft. 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	Flap control system	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-EX3 for better energy saving. Five-step capacity control is available.
	Weekly timer	On or Off timer can be set on a weekly basis.
Convenient	Function Switch ※ 	The function switch allows user to select and set two functions among six available functions. (Cannot be used when a centralised control remote is connected)
	Favorite setting ※ 	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	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	User can select wired remote controls, wireless remote controls or central remote controls.
	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.
	Filter sign	Announces the due time for cleaning of the air filter.
Others	Outside air intake	Outside fresh air can be taken inside.
	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

FDT	FDTC	FDU	FDUM	SRK	FDE	FDL
●	●	●	●	●	●	●
●	●	●	●	●	●	
●	●	●	●	●	●	
●	●	●	●	●	●	
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●			●	●	
●	●	●	●	●	●	
●	●			●	●	
●	●			●	●	●
●	●			●	●	
●	●	●	●	●	●	
●	●	●	●	●	●	
●	●	●	●	●	●	●
●	●	●	●	●	●	●
		●	●			
Option	Option	Option	Option	Option	Option	Option
●	●	●	●	●	●	
●	●	Procure locally	Option	●	●	●
●	●	●	●	●	●	●
●	Option	●	●			
●	●	●	●	●	●	●
●	●	●	●			
●	●	●	●			
●	●	●	●			
●	●	*1	●			

*1 : Except 200 • 250



CEILING CASSETTE -4way- FDT



NEW



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



Draft Prevention Panel (Option)



Point 1 Draft Prevention Panel (Option)

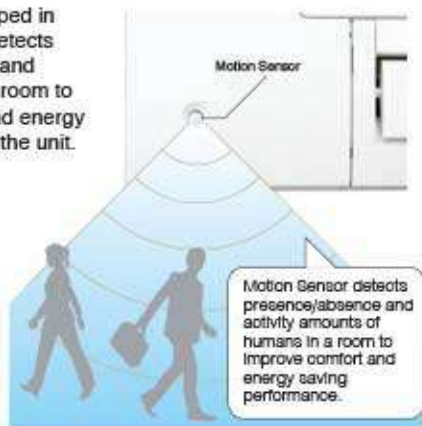
Draft Prevention Panel prevents cold/hot draft being blown directly on the user.
It is possible to set Draft Prevention Panel for each air outlet.



User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3, RCN-T-5AW-E2).

Point 2 Motion Sensor (Option)

Motion sensor is equipped in the panel corner and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



Remote control (Option)

Wired

NEW

Wireless

NEW



RC-EX3



RC-E5



RCH-E3



RCN-T-5AW-E2

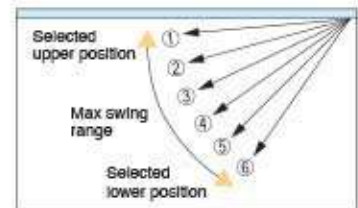
Point 3 Individual flap control system

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



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

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

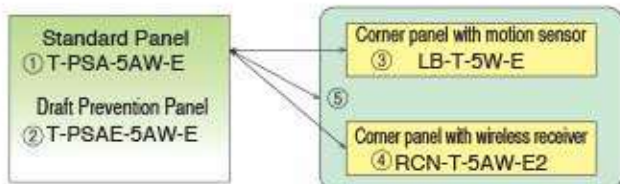


Point 4

Panel select pattern

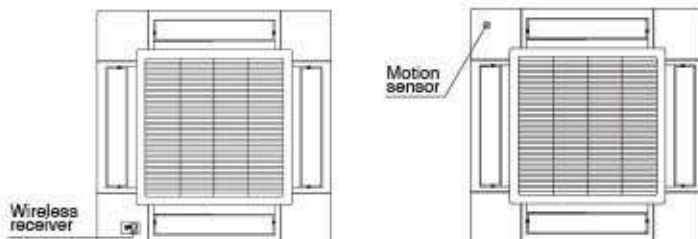
(Option)

8 patterns of panel are available.



- ① Standard Panel only
- ①+③ Standard Panel with corner panel with motion sensor
- ①+④ Standard Panel with corner panel with wireless receiver
- ①+③+④ Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
- ② Draft Prevention Panel only
- ②+③ Draft Prevention Panel with corner panel with motion sensor
- ②+④ Draft Prevention Panel with corner panel with wireless receiver
- ②+③+④ Draft Prevention Panel with corner panel with motion sensor & corner panel with wireless receiver

Installation position of Wireless kit and Motion sensor kit

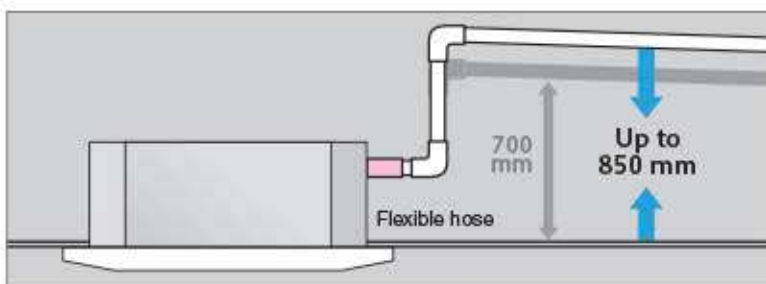


*Wireless receiver and Motion sensor can be installed to the position as shown

Point 5

850mm Drain Pump

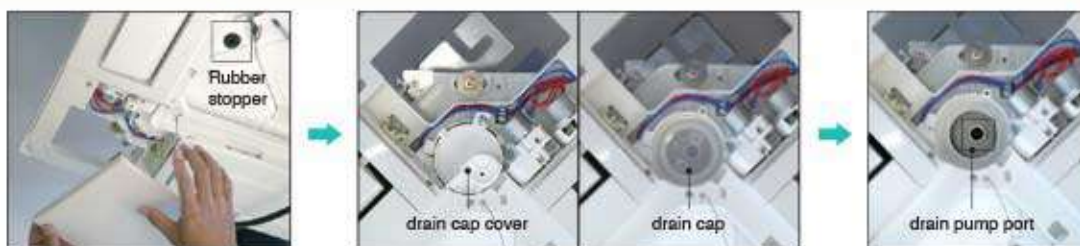
Drain can be discharged upwards by 850mm from the ceiling surface. It allows a piping layout with a high degree of freedom. Depending on the installation location and 185mm flexible hose as a standard equipment supports easy workability.



Point 6

Easy check of drain pan

Easy check of drain pan condition is available by removing corner lid only.



Remove corner lid.

Remove drain cap cover and check the condition. It is necessary to clean-up, firstly remove the rubber stopper to drain water out and secondly remove the drain cap.

Clean up the area around the drain pump port.

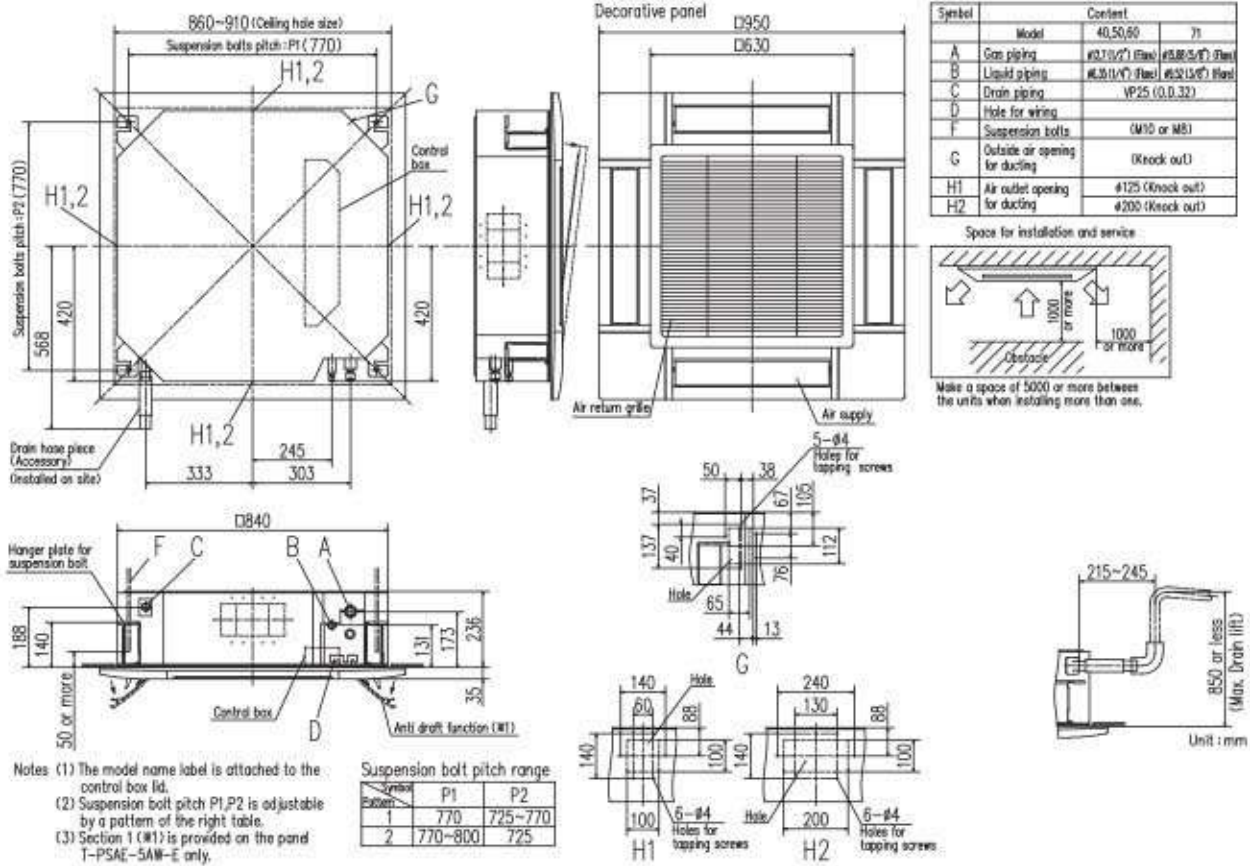
OUTDOOR UNIT

SRC • FDC	Hyper Inverter			Micro Inverter		
	40~60ZSX	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

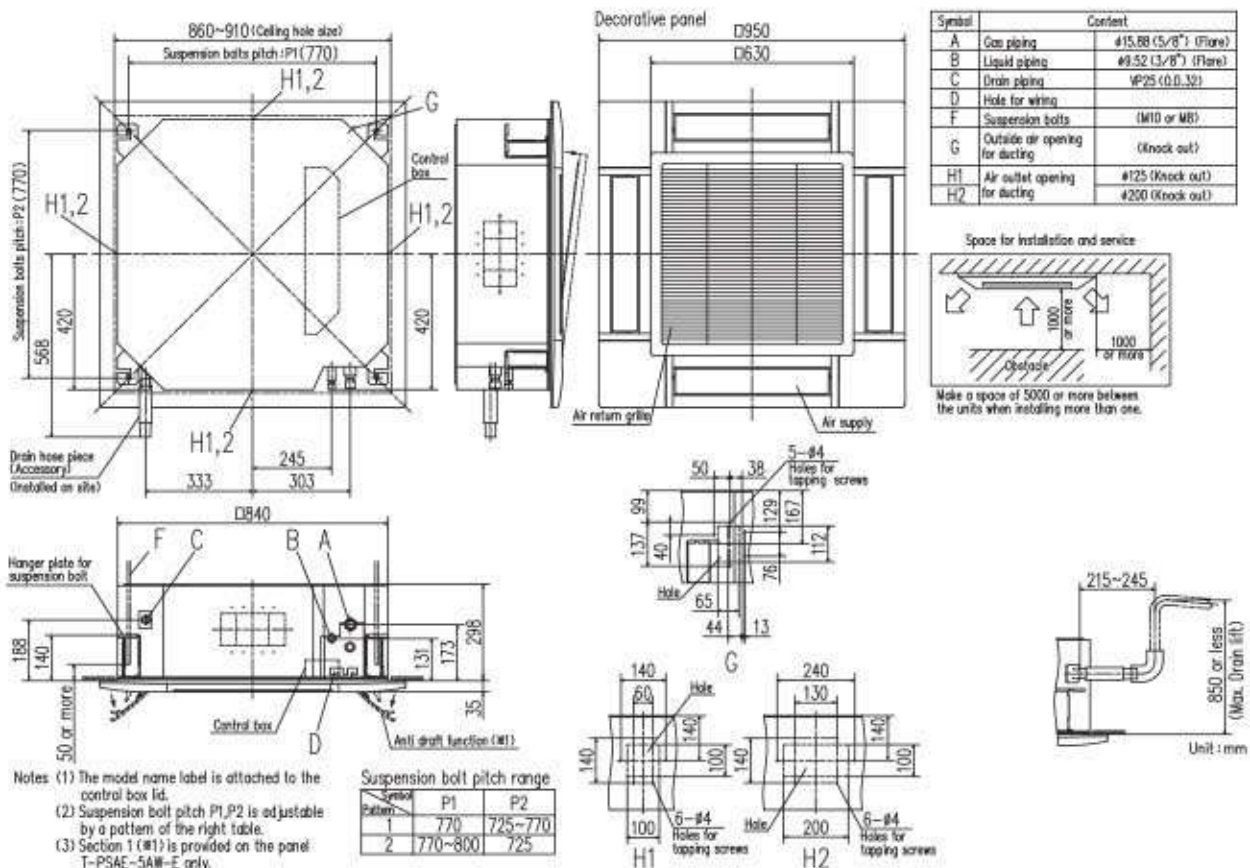
FDC	Standard Inverter		
	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm)

Models FDT40VG,50VG,60VG,71VG



Models FDT100VG,125VG,140VG



SPECIFICATIONS

		<i>HyperInverter</i>			
Set model name		FDT40ZSXVG	FDT50ZSXVG	FDT60ZSXVG	FDT71VNXVG
Indoor unit		FDT40VG	FDT50VG	FDT60VG	FDT71VG
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-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)	5.8 (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 / 1.03	1.29 / 1.29	1.52 / 1.56	1.94 / 1.91
EER/COP		Cooling/Heating 4.30 / 4.37	3.88 / 4.19	3.68 / 4.29	3.66 / 4.19
Inrush current		A 5	5	5	5
Max. current		12	15	15	17
Sound power level*1	Indoor	Cooling/Heating 53 / 53	54 / 54	60 / 60	62 / 62
	Outdoor	Cooling/Heating 63 / 63	63 / 63	65 / 64	66 / 66
Sound pressure level*1 #1	Indoor	Cooling (Hi/Ma/Lo) dB(A) 33 / 30 / 27	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29
		Heating (Hi/Ma/Lo) 33 / 30 / 27	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29
	Outdoor	Cooling/Heating 50 / 49	50 / 49	52 / 52	51 / 48
		Cooling (Hi/Ma/Lo) 16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12
Air flow #1	Indoor	Heating (Hi/Ma/Lo) m³/min 16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12
		Outdoor	Cooling/Heating 36 / 33	39 / 33	41.5 / 39
Exterior dimensions		Indoor HeightxWidthxDepth mm	Unit: 236 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	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)
		Outdoor	45		60
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	-15~46*1		
		Heating	-20~24		
Panel			T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

		<i>HyperInverter</i>					
Set model name		FDT100VNXVG	FDT125VNXVG	FDT140VNXVG	FDT100VSVXVG	FDT125VSVXVG	FDT140VSVXVG
Indoor unit		FDT100VG	FDT125VG	FDT140VG	FDT100VVG	FDT125VVG	FDT140VVG
Outdoor unit		FDC100VNX	FDC125VNX	FDC140VNX	FDC100VVSX	FDC125VVSX	FDC140VVSX
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 ~ 12.5)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating kW 2.50 / 2.58	3.42 / 3.43	4.26 / 4.20	2.50 / 2.58	3.42 / 3.43	4.26 / 4.20
EER/COP		Cooling/Heating 4.00 / 4.34	3.65 / 4.08	3.29 / 3.81	4.00 / 4.34	3.65 / 4.08	3.29 / 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 63 / 63	64 / 64	64 / 64	63 / 63	64 / 64	64 / 64
	Outdoor	Cooling/Heating 70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1 #1	Indoor	Cooling (Hi/Ma/Lo) dB(A) 39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32	42 / 39 / 33
		Heating (Hi/Ma/Lo) 39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32	42 / 39 / 33
	Outdoor	Cooling/Heating 48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
		Cooling (Hi/Ma/Lo) m³/min 26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19
Air flow #1	Indoor	Heating (Hi/Ma/Lo) 26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19
		Outdoor	Cooling/Heating 100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
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	30(Unit:25 Standard Panel: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 m	Max.30 / Max.15				
Outdoor operating temperature range		Cooling °C	-15~43*1				
		Heating	-20~20				
Panel			T-PSA-5AW-E, T-PSAE-5AW-E				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

#1 Powerful-Hi can be selected.

Sound pressure level: 40ZSXVG 36dB(A), 50ZSXVG 38dB(A), 60ZSXVG 44dB(A), 71VNXVG 46dB(A), 100VN(S)XVG 49dB(A), 125/140VN(S)XVG 49dB(A)
Air flow: 40ZSXVG 19m³/min, 50ZSXVG 20m³/min, 60ZSXVG 26m³/min, 71VNXVG 28m³/min, 100VN(S)XVG 37m³/min, 125/140VN(S)XVG 38m³/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.

Set model name		Hyper Inverter					
		FDT71VNXPGV	FDT100VNXPGV	FDT125VNXPGV	FDT140VNXPGV	FDT140VNXXTVG	
		Twin			Triple		
Indoor unit		FDT40VG	FDT50VG	FDT60VG	FDT71VG	FDT50VG	
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 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00	
EER/COP	Cooling/Heating	3.84 / 4.02	3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00	
Inrush current	A	5	5	5	5	5	
Max. current		17	24	26	26	26	
Sound power level*1	Indoor*2	Cooling/Heating	53 / 53	54 / 54	60 / 60	62 / 62	54 / 54
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Ma/Lo)	33 / 30 / 27	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27
	Outdoor	Heating (Hi/Ma/Lo)	33 / 30 / 27	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27
Air flow ※1	Indoor*2	Cooling (Hi/Ma/Lo)	16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10
		Heating (Hi/Ma/Lo)	16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950				
	Outdoor		750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor	kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panels)
	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	°C	-20~20				
Panel	T-PSA-5AW-E, T-PSAE-5AW-E						
Air filter, Q'ty	Pocket plastic net x 1(Washable)						
Remote control (option)	wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2						

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter					
		FDT100VSXPGV	FDT125VSXPGV	FDT140VSXPGV	FDT140VSXXTVG		
		Twin		Triple			
Indoor unit		FDT50VG	FDT60VG	FDT71VG	FDT50VG		
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 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00		
EER/COP	Cooling/Heating	3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00		
Inrush current	A	5	5	5	5		
Max. current		15	15	15	15		
Sound power level*1	Indoor*2	Cooling/Heating	54 / 54	60 / 60	62 / 62	54 / 54	
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	72 / 72	
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Ma/Lo)	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27	
	Outdoor	Heating (Hi/Ma/Lo)	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27	
Air flow ※1	Indoor*2	Cooling (Hi/Ma/Lo)	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10	
		Heating (Hi/Ma/Lo)	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10	
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950				
	Outdoor		750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor	kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panel: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.100	Max.100				
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*3				
	Heating	°C	-20~20				
Panel	T-PSA-5AW-E, T-PSAE-5AW-E						
Air filter, Q'ty	Pocket plastic net x 1(Washable)						
Remote control (option)	wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2						

※1 Powerful-Hi can be selected.

Sound pressure level: 71VNXPGV 36dB(A), 100VN(S)XPVG 38dB(A), 125VN(S)XPVG 44dB(A), 140VN(S)XPVG 46dB(A), 140VN(S)XTVG 38dB(A)

Air flow: 71VNXPGV 19m³/min, 100VN(S)XPVG 20m³/min, 125VN(S)XPVG 26m³/min, 140VN(S)XPVG 28m³/min, 140VN(S)XTVG 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

Set model name		Micro Inverter							
		FDT100VNVG	FDT125VNVG	FDT140VNVG	FDT100VSVG	FDT125VSVG	FDT140VSVG		
Indoor unit		FDT100VG	FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG		
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	
Max. current				24	24	24	15	15	15
Sound power level**1	Indoor	Cooling/Heating		63 / 63	64 / 64	64 / 64	63 / 63	64 / 64	64 / 64
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73
Sound pressure level**1 =2	Indoor	Cooling (Hi/Ma/Lo)	dB(A)	39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32	42 / 39 / 33
		Heating (Hi/Ma/Lo)		39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32	42 / 39 / 33
	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51
		Cooling (Hi/Ma/Lo)		26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19
Air flow =2	Indoor	Heating (Hi/Ma/Lo)	m³/min	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19
		Cooling/Heating			75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions		Indoor	Height/Width/Depth	mm	Unit: 208 x 840 x 840 Panel: 35 x 950 x 950				
		Outdoor			845 x 970 x 370				
Net weight		Indoor	kg	30(Unit:25 Standard Panel: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	m	Max.30 / Max.15					
Outdoor operating temperature range		Cooling	°C	-15~43**1					
		Heating		-20~20					
Panel		T-PSA-5AW-E, T-PSAE-5AW-E							
Air filter, Q'ty		Pocket plastic net x 1(Washable)							
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2							

The values are for simultaneous Multi operation.

Set model name		Micro Inverter							
		FDT100VNPVG	FDT125VNPVG	FDT140VNPVG	FDT140VNTVG				
Indoor unit		FDT50VG	FDT60VG	FDT71VG	FDT50VG				
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	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)	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)			
Power consumption		Cooling/Heating	kW	2.82 / 3.09	3.95 / 3.70	4.51 / 4.58	4.65 / 4.63		
EER/COP		Cooling/Heating		3.55 / 3.62	3.16 / 3.78	3.10 / 3.49	3.01 / 3.46		
Inrush current			A	5	5	5	5		
Max. current				24	24	24	24		
Sound power level**1	Indoor**2	Cooling/Heating		54 / 54	60 / 60	62 / 62	54 / 54		
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	73 / 73		
Sound pressure level**1 =2	Indoor**2	Cooling (Hi/Ma/Lo)	dB(A)	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27		
		Heating (Hi/Ma/Lo)		33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27		
	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	51 / 51		
		Cooling (Hi/Ma/Lo)		16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10		
Air flow =2	Indoor**2	Heating (Hi/Ma/Lo)	m³/min	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10		
		Cooling/Heating			75 / 73	75 / 73	75 / 73	75 / 73	
Exterior dimensions		Indoor	Height/Width/Depth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950				
		Outdoor			845 x 970 x 370				
Net weight		Indoor	kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panel: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**1					
		Heating		-20~20					
Panel		T-PSA-5AW-E, T-PSAE-5AW-E							
Air filter, Q'ty		Pocket plastic net x 1(Washable)							
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2							

**2 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)VG 48dB(A), 125/140VN(S)VG 49dB(A), 100VNPVG 38dB(A), 125VNPVG 44dB(A), 140VNPVG 46dB(A), 140VNTVG 38dB(A)
Air flow: 100VN(S)VG 37m³/min, 125/140VN(S)VG 38m³/min, 100VNPVG 20m³/min, 125VNPVG 26m³/min, 140VNPVG 28m³/min, 140VNTVG 20m³/min

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		FDT100VSPVG		FDT125VSPVG		FDT140VSPVG	
				Twin			
Indoor unit		FDT50VG		FDT60VG		FDT71VG	
Outdoor unit		FDC100VS		FDC125VS		FDC140VS	
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)	
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 2.82 / 3.09		3.95 / 3.70		4.51 / 4.58	
EER/COP		Cooling/Heating 3.55 / 3.62		3.16 / 3.78		3.10 / 3.49	
Inrush current		A 5		5		5	
Max. current		15		15		15	
Sound power level*1	Indoor*2	Cooling/Heating 54 / 54		60 / 60		62 / 62	
	Outdoor	Cooling/Heating 70 / 70		72 / 72		73 / 73	
Sound pressure level*1 *1	Indoor*2	Cooling (Hi/Me/Lo) dB(A) 33 / 30 / 27		34 / 32 / 28		35 / 34 / 29	
	Outdoor	Heating (Hi/Me/Lo) 33 / 30 / 27		34 / 32 / 28		35 / 34 / 29	
Air flow *1	Indoor*2	Cooling (Hi/Me/Lo) m³/min 16 / 13 / 10		17 / 14 / 11		18 / 15 / 12	
	Outdoor	Heating (Hi/Me/Lo) 16 / 13 / 10		17 / 14 / 11		18 / 15 / 12	
	Outdoor	Cooling/Heating 75 / 73		75 / 73		75 / 73	
Exterior dimensions	Indoor	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950					
	Outdoor	HeightxWidthxDepth mm		845 x 970 x 370			
Net weight	Indoor	kg 24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)			
	Outdoor	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					
Panel		T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty		Pocket plastic net x 1(Washable)					
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

The values are for simultaneous Multi operation.

Set model name		FDT200VSAPVG		FDT250VSAPVG		FDT140VSTVG	
				Twin		Triple	
Indoor unit		FDT100VG		FDT125VG		FDT50VG	
Outdoor unit		FDC200VSA		FDC250VSA		FDC140VS	
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)	
Nominal heating capacity (Min~Max)		kW 22.4 (3.3 ~ 25.0)		27.0 (5.5 ~ 31.5)		16.0 (4.0 ~ 16.5)	
Power consumption		Cooling/Heating kW 6.25 / 6.02		8.36 / 7.15		4.65 / 4.63	
EER/COP		Cooling/Heating 3.04 / 3.72		2.87 / 3.78		3.01 / 3.46	
Inrush current		A 5		5		5	
Max. current		20		21		15	
Sound power level*1	Indoor*2	Cooling/Heating 63 / 63		64 / 64		54 / 54	
	Outdoor	Cooling/Heating 72 / 74		73 / 75		73 / 73	
Sound pressure level*1 *1	Indoor*2	Cooling (Hi/Me/Lo) dB(A) 39 / 37 / 31		41 / 39 / 32		33 / 30 / 27	
	Outdoor	Heating (Hi/Me/Lo) 39 / 37 / 31		41 / 39 / 32		33 / 30 / 27	
Air flow *1	Indoor*2	Cooling (Hi/Me/Lo) m³/min 26 / 23 / 17		28 / 25 / 18		16 / 13 / 10	
	Outdoor	Heating (Hi/Me/Lo) 26 / 23 / 17		28 / 25 / 18		16 / 13 / 10	
	Outdoor	Cooling/Heating 135 / 135		143 / 151		75 / 73	
Exterior dimensions	Indoor	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950				Unit: 236 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	
Net weight	Indoor	kg 30(Unit:25 Standard Panel:5)				24(Unit:19 Standard Panel:5)	
	Outdoor	115		143		83	
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") / 15.88(5/8")	
Refrigerant line (one way) length		m Max.70					
Vertical height differences		Outdoor is higher/lower m		Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C -15~50**3					
	Heating	-15~20					
Panel		T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty		Pocket plastic net x 1(Washable)					
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

*1 Powerful-Hi can be selected.

Sound pressure level: 100VSPVG 38dB(A), 125VSPVG 44dB(A), 140VSPVG 46dB(A), 140VNTVG 38dB(A), 200VSAPVG 48dB(A), 250VSAPVG 49dB(A), 140VSTVG 38dB(A)

Air flow: 100VSPVG 20m³/min, 125VSPVG 26m³/min, 140VSPVG 28m³/min, 140VNTVG 20m³/min, 200VSAPVG 37m³/min, 250VSAPVG 38m³/min, 140VSTVG 20m³/min

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		FDT200VSATVG		FDT200VSADVG		FDT250VSADVG	
		Triple		Double Twin			
Indoor unit		FDT71VG		FDT50VG		FDT60VG	
Outdoor unit		FDC200VSA		FDC200VSA		FDC250VSA	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min-Max)	kW	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)		22.4 (3.3 ~ 25.0)		27.0 (5.5 ~ 31.5)	
Power consumption	Cooling/Heating	6.01 / 5.76		6.26 / 6.15		7.42 / 6.83	
EER/COP	Cooling/Heating	3.16 / 3.89		3.04 / 3.64		3.23 / 3.95	
Inrush current		5		5		5	
Max. current		20		20		21	
Sound power level*1	Indoor	Cooling/Heating		62 / 62		54 / 54	
	Outdoor	Cooling/Heating		72 / 74		72 / 74	
Sound pressure level*1 *2	Indoor	Cooling (Hi/Ma/Lo)		35 / 34 / 29		33 / 30 / 27	
	Indoor	Heating (Hi/Ma/Lo)		35 / 34 / 29		33 / 30 / 27	
Air flow *2	Indoor	Cooling (Hi/Ma/Lo)		18 / 15 / 12		16 / 13 / 10	
	Indoor	Heating (Hi/Ma/Lo)		18 / 15 / 12		16 / 13 / 10	
Exterior dimensions	Indoor	HeightxWidthxDepth		135 / 135		135 / 135	
	Outdoor	mm		Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		1,300 x 970 x 370	
Net weight	Indoor	kg		26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panel:5)	
	Outdoor	kg		115		143	
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")	
Refrigerant line (one way) length		m		Max.70			
Vertical height differences	Outdoor is higher/lower	m		Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C		-15~50*3			
	Heating	°C		-15~20			
Panel		T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty		Pocket plastic net x 1(Washable)					
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

Set model name		FDT71VNPVG		FDT90VNPVG		FDT100VNP1VG	
		Standard Inverter					
Indoor unit		FDT71VG		FDT100VG		FDT100VG	
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	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 / 3.94	
Inrush current		5		5		5	
Max. current		14.5		18.0		21.0	
Sound power level*1	Indoor	Cooling/Heating		62 / 62		63 / 63	
	Outdoor	Cooling/Heating		67 / 67		69 / 69	
Sound pressure level*1 *2	Indoor	Cooling (Hi/Ma/Lo)		35 / 34 / 29		39 / 37 / 31	
	Indoor	Heating (Hi/Ma/Lo)		35 / 34 / 29		39 / 37 / 31	
Air flow *2	Indoor	Cooling (Hi/Ma/Lo)		18 / 15 / 12		26 / 23 / 17	
	Indoor	Heating (Hi/Ma/Lo)		18 / 15 / 12		26 / 23 / 17	
Exterior dimensions	Indoor	HeightxWidthxDepth		36 / 36		63 / 49.5	
	Outdoor	mm		Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
Net weight	Indoor	kg		26(Unit:21 Standard Panel:5)		30(Unit:25 Standard Panel:5)	
	Outdoor	kg		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	Outdoor is higher/lower	m		Max.20 / Max.20			
Outdoor operating temperature range	Cooling	°C		-15~46*3			
	Heating	°C		-15~20			
Panel		T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty		Pocket Plastic net x1(Washable)					
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

*2 Powerful-Hi can be selected.

Sound pressure level : 200VSATVG 46dB(A), 200VSADVG 38dB(A), 250VSADVG 44dB(A), 71VNPVG 46dB(A), 90VNPVG 48dB(A), 100VNP1VG 48dB(A)
Air flow : 200VSATVG 28m³/min, 200VSADVG 20m³/min, 250VSADVG 26m³/min, 71VNPVG 28m³/min, 90VNPVG 37m³/min, 100VNP1VG 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.

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

FDTC



Fits into standard 600 x 600 ceiling



FDTC 40/50/60

Remote control (Option)



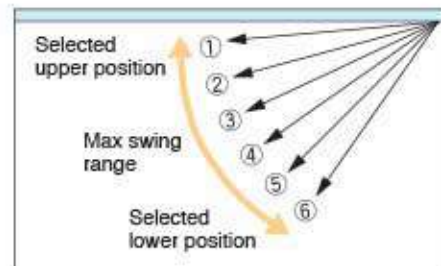
Point 1 Individual flap control system

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.

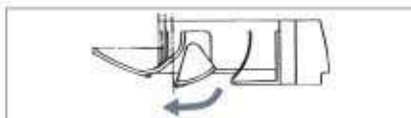
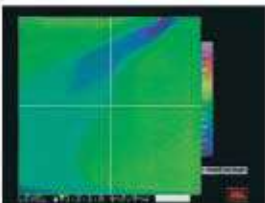


■The wireless remote control is not applicable to the Individual flap control system.

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



Point 2 "CLEARER" Air Flow



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

Point 3 Installation Workability



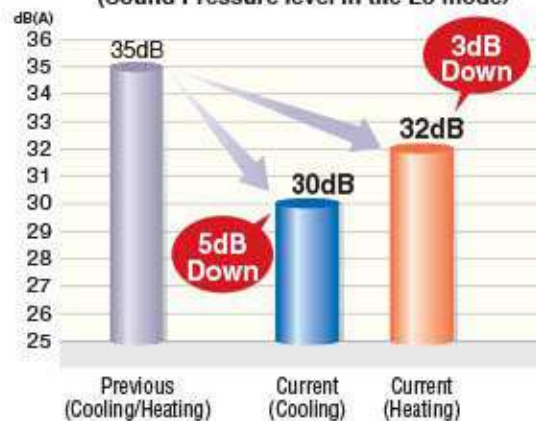
For wireless control simply insert the infrared receiver kit on a corner of the panel



wireless remote control RCN-TC-24W-E2

Point 4 Quiet operation

(Sound Pressure level in the Lo mode)



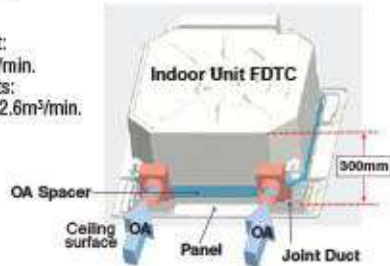
Point 5

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.

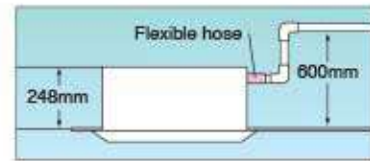


Point 6

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 7

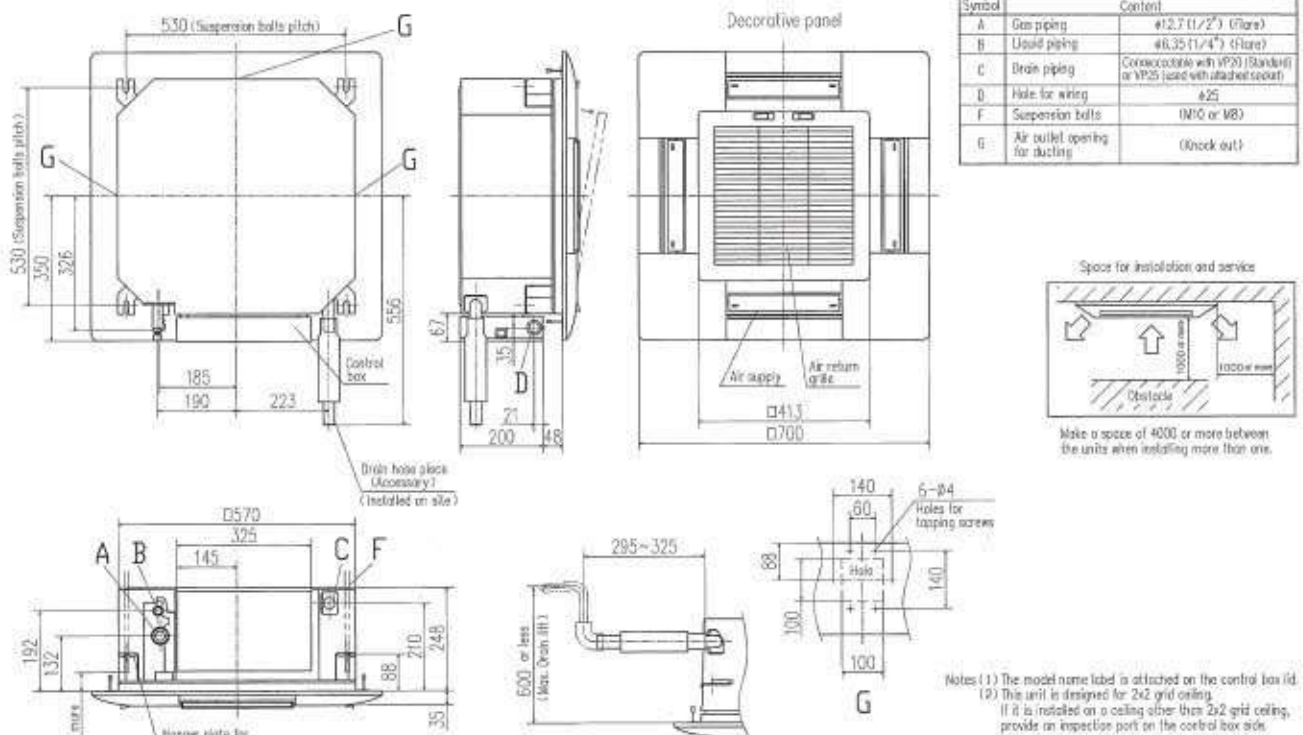
Arrangement of installation balance of indoor unit

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		
	40-60ZSX	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)



SPECIFICATIONS

		Hyper Inverter		
Set model name		FDTC40ZSXVF	FDTC50ZSXVF	FDTC60ZSXVF
Indoor unit		FDTC40VF	FDTC50VF	FDTC60VF
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-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		
Max. current		12		
Sound power level*1	Indoor	Cooling/Heating 60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating 63 / 63	63 / 63	65 / 64
Sound pressure level**1	Indoor	Cooling (Hi/Me/Lo) dB(A) 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 / 49	50 / 49	52 / 52
		Cooling (Hi/Me/Lo) m³/min 11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7
Air flow**1	Indoor	Heating (Hi/Me/Lo) m³/min 11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8
		Outdoor	Cooling/Heating 36 / 33	40 / 33
Exterior dimensions		Unit: 248 x 570 x 570 Panel: 35 x 700 x 700		
		640 x 800(+71) x 290		
Net weight		18.5(Unit:15 Panel:3.5)		
		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 -15~46**3		
		Heating -20~24		
Panel		TC-PSA-25W-E		
Air filter, Q'ty		Pocket plastic net x 1(Washable)		
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2		

The values are for simultaneous Multi operation.

		Hyper Inverter						
Set model name		FDTC71VNXPVF	FDTC100VNXPVF	FDTC125VNXPVF	FDTC140VNXXTVF	FDTC100VXSXPVF	FDTC125VXSXPVF	FDTC140VXSXTVF
		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						
Max. current		17						
Sound power level*1	Indoor**2	Cooling/Heating 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	Indoor**2	Cooling (Hi/Me/Lo) dB(A) 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
		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
Air flow**1	Indoor**2	Heating (Hi/Me/Lo) m³/min 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
Exterior dimensions		Unit: 248 x 570 x 570 Panel: 35 x 700 x 700						
		750 x 880(+88) x 340						
Net weight		18.5(Unit:15 Panel:3.5)						
		60						
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-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2						

**1 Powerful-Hi can be selected.

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

Air flow: 40/50/60ZSXVF 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.

Set model name	Micro Inverter		
	FDTCT100VNPVF	FDTCT125VNPVF	FDTCT140VNTVF
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 Cooling/Heating 70 / 70	72 / 72	73 / 73
Sound pressure level*1 =2	Indoor*2 Cooling (Hi/Ma/Lo) 42 / 36 / 30	46 / 39 / 30	42 / 36 / 30
	Heating (Hi/Ma/Lo) 42 / 36 / 32	46 / 39 / 32	42 / 36 / 32
	Outdoor Cooling/Heating 49 / 49	50 / 51	51 / 51
Air flow =2	Indoor*2 Cooling (Hi/Ma/Lo) 11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7
	Heating (Hi/Ma/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 Outdoor HeightxWidthxDepth mm	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700 845 x 970 x 370	
Net weight	Indoor Outdoor kg	18.5(Unit:15 Panel:3.5) 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 Heating °C	-15~43*3 -20~20	
Panel		TC-PSA-25W-E	
Air filter, Q'ty		Pocket plastic net x 1(Washable)	
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2	

The values are for simultaneous Multi operation.

Set model name	Micro Inverter				
	FDTCT100VSPVF	FDTCT125VSPVF	FDTCT140VSTVF	FDTCT200VSADVF	FDTCT250VSADVF
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/Ma/Lo) 42 / 36 / 30	46 / 39 / 30	42 / 36 / 30	42 / 36 / 30	46 / 39 / 30
	Heating (Hi/Ma/Lo) 42 / 36 / 32	46 / 39 / 32	42 / 36 / 32	42 / 36 / 32	46 / 39 / 32
	Outdoor Cooling/Heating 49 / 49	50 / 51	51 / 51	58 / 59	61 / 62
Air flow =2	Indoor*2 Cooling (Hi/Ma/Lo) 11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7
	Heating (Hi/Ma/Lo) 11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8
	Outdoor Cooling/Heating 75 / 73	75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor Outdoor HeightxWidthxDepth mm	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700 845 x 970 x 370			1,300 x 970 x 370 1,505 x 970 x 370
Net weight	Indoor Outdoor kg	18.5(Unit:15 Panel:3.5) 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 Heating °C	-15~43*3 -20~20			-15~50*3 -15~20
Panel		TC-PSA-25W-E			
Air filter, Q'ty		Pocket plastic net x 1(Washable)			
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2			

*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)

NEW

Wired

NEW

Wireless



RC-EX3



RC-E5



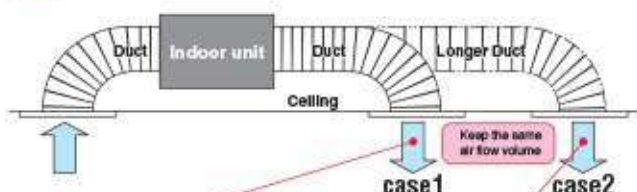
RCH-E3



RCN-KIT4-E2

Point 1

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



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

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

More quiet noise

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.



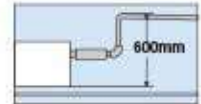
Point 5 Improvement of the serviceability

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

Company : AIRZONE
URL : <http://www.airzone.es>

All-in-one solution: the whole zoning system in a plug&play device perfectly adapted to the indoor DX unit



Main components



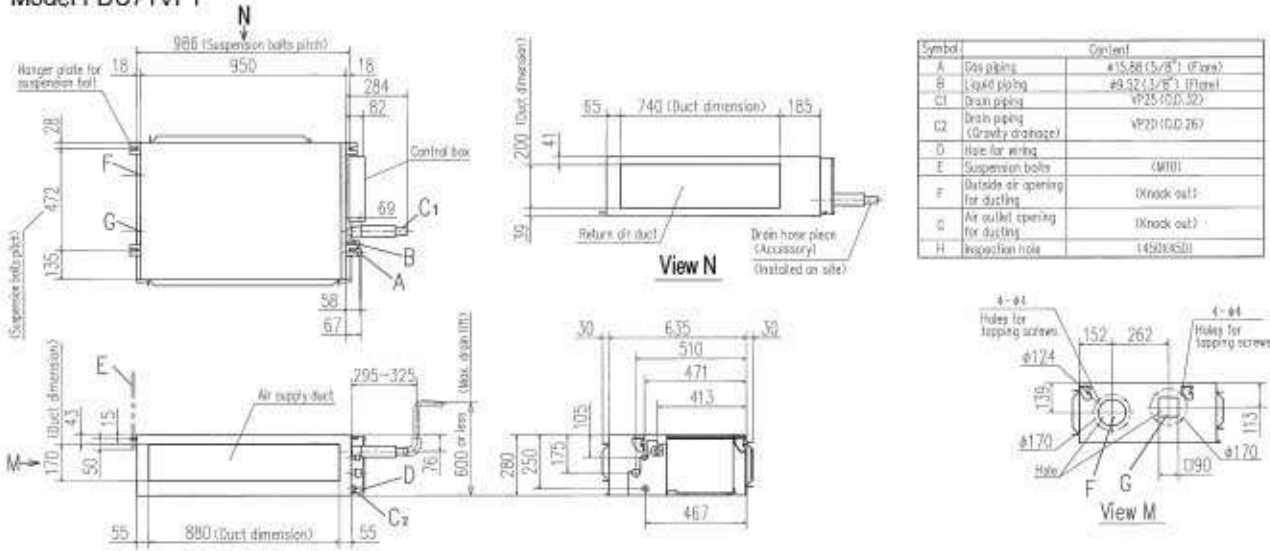
OUTDOOR UNIT

FDC	Hyper Inverter		Micro Inverter		
	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model					
Chargeless	30m			30m	
Height x Width x Depth (mm)	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

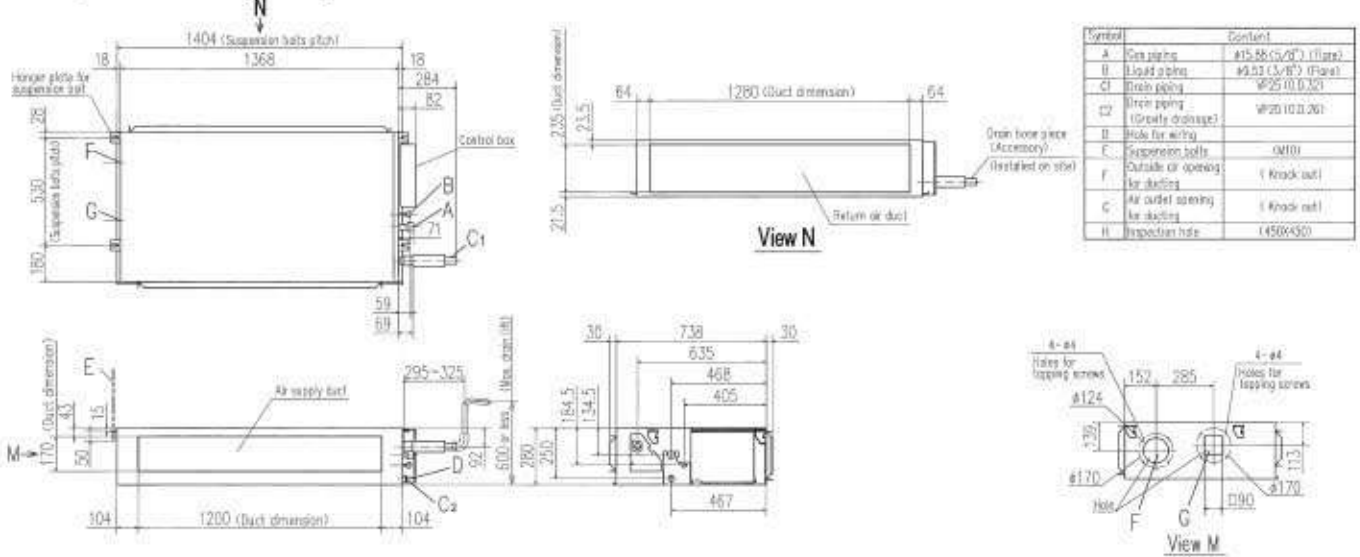
FDC	Standard Inverter		
	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm)

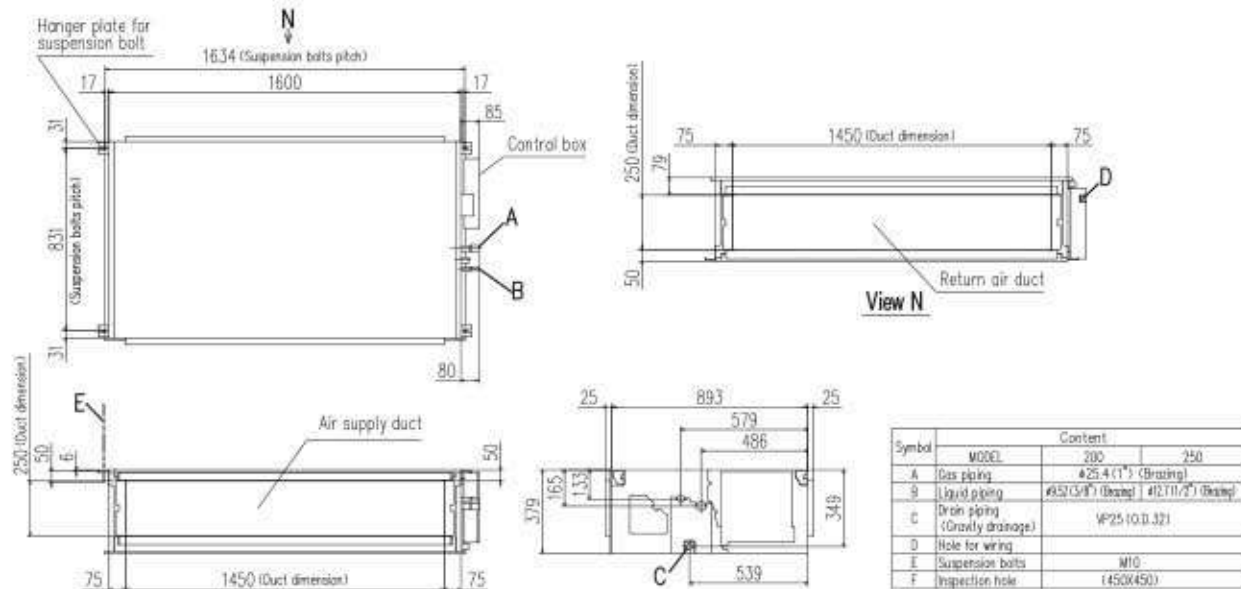
Model FDU71VF1



Models FDU100VF2, 125VF, 140VF



Models FDU200VG, 250VG



SPECIFICATIONS

		<i>Hyper Inverter</i>			
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 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/Ma/Lo) dB(A) 33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Ma/Lo) 33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
	Outdoor	Cooling/Heating 51 / 48	48 / 50	48 / 50	49 / 52
		Cooling (Hi/Ma/Lo) 19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
Air flow =1	Indoor	Heating (Hi/Ma/Lo) m³/min 19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Outdoor	Cooling/Heating 60 / 50	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 °C -15~43*3			
		Heating -20~20			
Air filter		Procure locally			
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

		<i>Hyper Inverter</i>		
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 65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating 70 / 70	70 / 70	72 / 72
Sound pressure level*1 =1	Indoor	Cooling (Hi/Ma/Lo) dB(A) 38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Ma/Lo) 38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
	Outdoor	Cooling/Heating 48 / 50	48 / 50	49 / 52
		Cooling (Hi/Ma/Lo) 28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
Air flow =1	Indoor	Heating (Hi/Ma/Lo) m³/min 28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Outdoor	Cooling/Heating 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-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

*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			kW	Cooling/Heating		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		
	Outdoor	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 (Hi/Me/Lo)	m³/min	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22		
	Outdoor	Heating (Hi/Me/Lo)		28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22		
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							
Refrigerant line (one way) length			m	9.52(3/8") / 15.88(5/8")							
Vertical height differences			Outdoor is higher/lower	Max.50							
Outdoor operating temperature range			Cooling	-15~43*3							
			Heating	-20~20							
Air filter			Procure locally								
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2								

			Micro Inverter		Standard Inverter								
Set model name			FDU200VSAVG	FDU250VSAVG	FDU71VNPVF1	FDU90VNPVF2	FDU100VNPVF2						
Indoor unit			FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2						
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			kW	Cooling/Heating		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)	dB(A)	50 / 47 / 45	50 / 47 / 45	33 / 29 / 25	38 / 36 / 30	38 / 36 / 30					
	Outdoor	Heating (Hi/Me/Lo)		50 / 47 / 45	50 / 47 / 45	33 / 29 / 25	38 / 36 / 30	38 / 36 / 30					
Air flow *1	Indoor	Cooling (Hi/Me/Lo)	m³/min	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					
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			
Net weight	Indoor		kg	89		34		54					
	Outdoor			115		143		45		57			
Ref.piping size			Liquid/Gas	ømm									
Refrigerant line (one way) length			m	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")	
Vertical height differences			Outdoor is higher/lower	Max.70		Max.30		Max.20 / Max.20					
Outdoor operating temperature range			Cooling	-15~50*3		-15~46*3		-15~20					
			Heating	-15~20									
Air filter			Procure locally										
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2							

*1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)V2 44dB(A), 125VN(S)V2 45dB(A), 140VN(S)V2 47dB(A), 200/250VSAVG:52dB(A),71VNPVF1 38dB(A), 90VNPVF2 44dB(A), 100VNP1VF2 44dB(A)

Air flow: 100VN(S)V2 36m³/min, 125VN(S)V2 39m³/min, 140VN(S)V2 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)



Filter kit (option)

UM-FL1EF : for 40, 50
 UM-FL2EF : for 60, 71
 UM-FL3EF : for 100, 125, 140
 external static pressure loss:5Pa

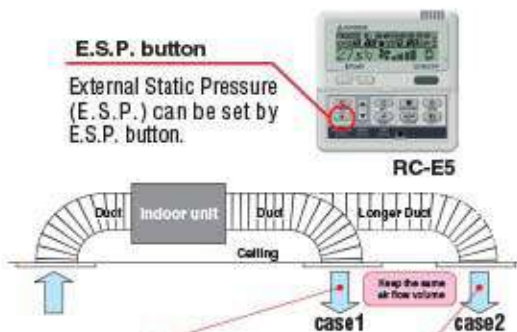
Point 1 Thin design

The height of all FDUM models is only 280mm.



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.



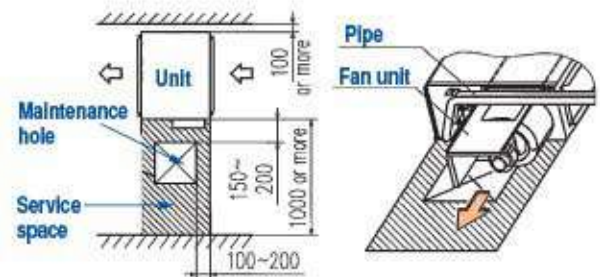
Setting No.	No.8	No.9	No.10	No.11	No.12	No.13	No.14	No.15
E.S.P.	80Pa	90Pa	100Pa	110Pa	120Pa	130Pa	140Pa	150Pa

*Range of 80-150 Pa is set at ex-factory default.
 Range of 10-200 Pa is available by setting SW9-4 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.

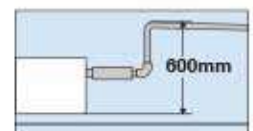


Point 4 Transparent inspection window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan. (Please refer to P37)

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

Company : AIRZONE
URL : <http://www.airzone.es>



All-in-one solution: the whole zoning system in a plug&play device perfectly adapted to the indoor DX unit

Main components



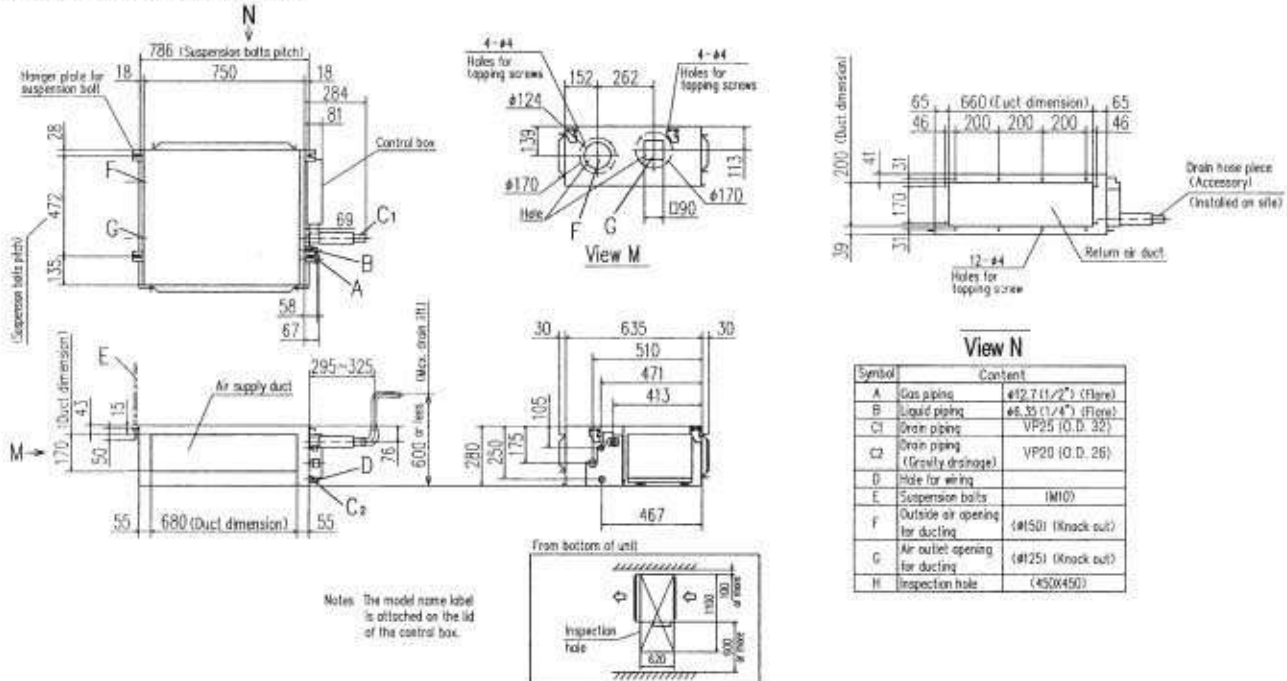
OUTDOOR UNIT

SRC • FDC	Hyper Inverter			Micro Inverter		
	40-60ZSX	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

FDC	Standard Inverter		
	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)

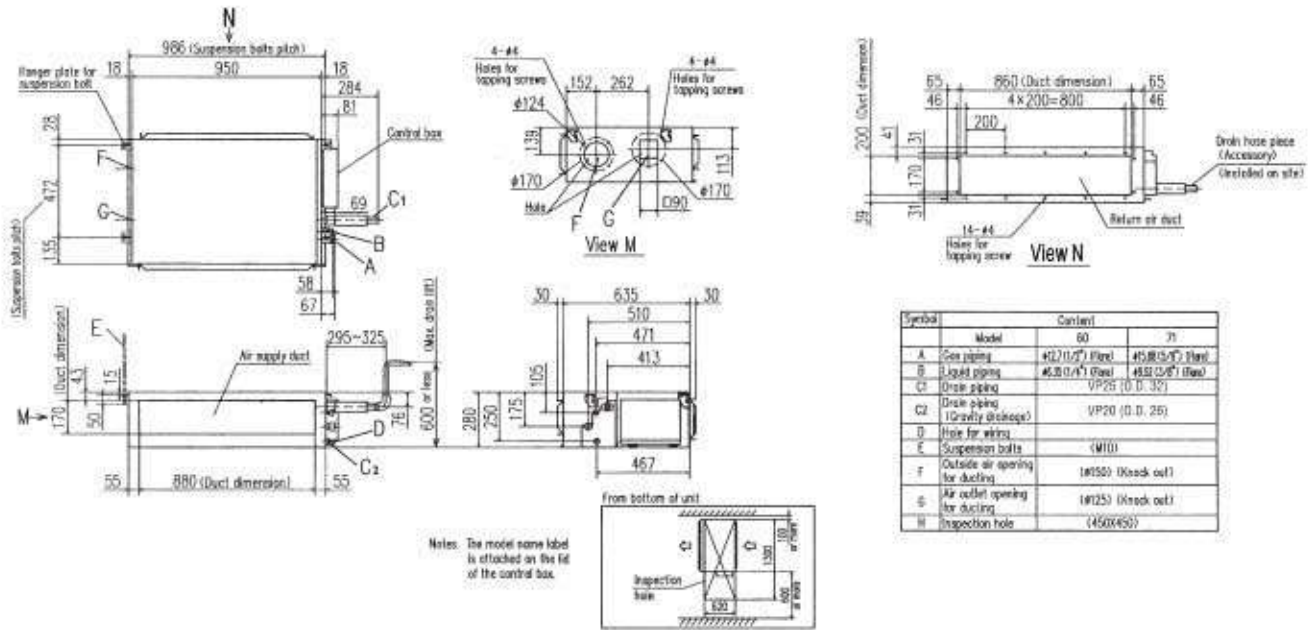
Models FDUM40VF, FDUM50VF



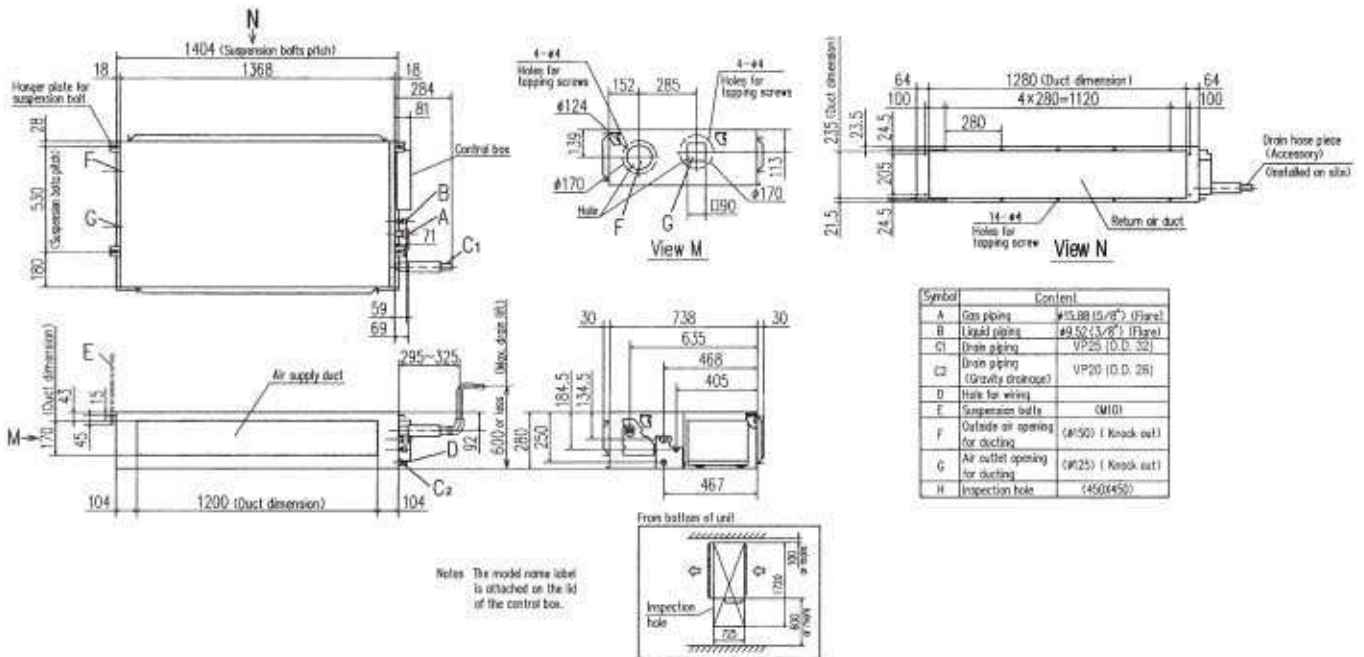
Symbol	Content
A	Gas piping $\phi 12.7 (1/2")$ (Flare)
B	Liquid piping $\phi 6.35 (1/4")$ (Flare)
C1	Drain piping VP25 (O.D. 32)
C2	Drain piping (Gravelly drainage) VP20 (O.D. 26)
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting $\phi 150$ (Knock out)
G	Air outlet opening for ducting $\phi 125$ (Knock out)
H	Inspection hole (450x450)

DIMENSIONS (Unit:mm)

Models FDUM60VF,71VF1



Models FDUM100VF2,125VF,140VF



SPECIFICATIONS

		HyperInverter				
Set model name		FDUM40ZSXVF	FDUM50ZSXVF	FDUM60ZSXVF	FDUM71VNXVF1	FDUM100VNXVF2
Indoor unit		FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-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				
Max. current		5	5	5	5	5
Sound power level*1		Indoor Cooling/Heating 60 / 60	60 / 60	60 / 60	65 / 65	65 / 65
		Outdoor Cooling/Heating 63 / 63	63 / 63	65 / 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
		Outdoor Cooling/Heating 50 / 49	50 / 49	52 / 52	51 / 48	48 / 50
Air flow ※1		Indoor 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				
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 -15~46*4		-15~43*4		
		Heating -20~24		-20~20		
Air filter		Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)				
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

		HyperInverter				
Set model name		FDUM125VNXVF	FDUM140VNXVF	FDUM100VSVXVF2	FDUM125VSVXVF	FDUM140VSVXVF
Indoor unit		FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF
Outdoor unit		FDC125VNX	FDC140VNX	FDC100VNX	FDC125VNX	FDC140VNX
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				
Max. current		5	5	5	5	5
Sound power level*1		Indoor Cooling/Heating 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
Air flow ※1		Indoor Cooling (Hi/Me/Lo) 32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Heating (Hi/Me/Lo) 32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Outdoor Cooling/Heating 100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
External static pressure*3		Pa Standard:60 Max:100				
Exterior dimensions		Indoor HeightxWidthxDepth mm 280 x 1,370 x 740		1,300 x 970 x 370		
		Outdoor 54		105		
Net weight		Indoor kg 54		105		
		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		-15~43*4		
		Heating -20~20		-20~20		
Air filter		Filter kit : UM-FL3EF (option)				
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

*1 Powerful-Hi can be selected.

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

Set model name		Hyper Inverter				
		FDUM71VNXPVF	FDUM100VNXPVF	FDUM125VNXPVF	FDUM140VNXPVF1	FDUM140VNXXTVF
		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		5	5	5	5	5
Max. current		17	24	26	26	26
Sound power level ^{*1}	Indoor ^{*2} Cooling/Heating	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/Ma/Lo)	39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
	Heating (Hi/Ma/Lo)	39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
Air flow ^{*2}	Indoor ^{*2} Cooling (Hi/Ma/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
	Heating (Hi/Ma/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
External static pressure ^{*5}	Outdoor Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
				Standard:35	Max:100	
Exterior dimensions	Indoor HeightxWidthxDepth	290 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	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		Max.50	Max.100			
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C -15~43**				
	Heating	°C -20~20				
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter			
		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		15	15	15	15
Sound power level ^{*1}	Indoor ^{*2} Cooling/Heating	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/Ma/Lo)	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
	Heating (Hi/Ma/Lo)	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
Air flow ^{*2}	Indoor ^{*2} Cooling (Hi/Ma/Lo)	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
	Heating (Hi/Ma/Lo)	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
External static pressure ^{*3}	Outdoor Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100
				Standard:35	Max:100
Exterior dimensions	Indoor HeightxWidthxDepth	280 x 750 x 635		280 x 950 x 635	
	Outdoor			1,300 x 970 x 370	
Net weight	Indoor	29		34	
	Outdoor			105	
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		Max.100			
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C -15~43**			
	Heating	°C -20~20			
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)			
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

^{*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		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			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	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
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Ma/Lo)	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Ma/Lo)	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
	Outdoor	Cooling/Heating	49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51
		Cooling (Hi/Ma/Lo)	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
Air flow ※1	Outdoor	Heating (Hi/Ma/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*3		Pa	Standard:60 Max:100					
Exterior dimensions	Indoor	HeightxWidthxDepth	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**					
	Heating		-20~20					
Air filter		Filter kit : UM-FL3EF (option)						
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2						

The values are for simultaneous Multi operation.

			Micro Inverter				
Set model name			FDUM100VNPVF	FDUM125VNPVF	FDUM140VNPVF-1	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		kW	2.84 / 3.35	3.87 / 4.07	4.78 / 4.60	4.65 / 5.15	2.84 / 3.35
EER/COP			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	60 / 60	60 / 60	65 / 65	60 / 60	60 / 60
	Outdoor		Cooling/Heating	70 / 70	72 / 72	73 / 73	73 / 73
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Ma/Lo)	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26	32 / 29 / 26
		Heating (Hi/Ma/Lo)	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26	32 / 29 / 26
	Outdoor	Cooling/Heating	49 / 49	50 / 51	51 / 51	51 / 51	49 / 49
		Cooling (Hi/Ma/Lo)	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	10 / 9 / 8
Air flow ※1	Outdoor	Heating (Hi/Ma/Lo)	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	10 / 9 / 8
		Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*3		Pa	Standard:35 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	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	°C	-15~43**				
	Heating		-20~20				
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)					
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

※1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)V2 44dB(A), 125VN(S)V2 45dB(A), 140VN(S)V2 47dB(A), 100VN(S)V2 37dB(A), 125VNPVF 36dB(A), 140VNPVF 38dB(A), 140VNTVF 37dB(A)

Air flow: 100VN(S)V2 36m³/min, 125VN(S)V2 39m³/min, 140VN(S)V2 48m³/min, 100VN(S)V2 13m³/min, 125VNPVF 20m³/min, 140VNPVF 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.

Set model name		Micro Inverter						
		FDUM125VSPVF	FDUM140VSPVF1	FDUM200VSAPVF2	FDUM250VSAPVF	FDUM140VSTVF	FDUM200VSATVF1	
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		5	5	5	5	5	5	
Max. current		15	15	22	24	15	22	
Sound power level*1	Indoor	Cooling/Heating	60 / 60	65 / 65	65 / 65	67 / 67	60 / 60	65 / 65
	Outdoor	Cooling/Heating	72 / 72	73 / 73	72 / 74	73 / 75	73 / 73	72 / 74
Sound pressure level*1 =2	Indoor	Cooling (Hi/Ma/Lo)	31 / 28 / 25	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	32 / 29 / 26	33 / 29 / 25
	Outdoor	Cooling/Heating	31 / 28 / 25	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	32 / 29 / 26	33 / 29 / 25
Air flow #2	Indoor	Cooling (Hi/Ma/Lo)	50 / 51	51 / 51	58 / 59	59 / 62	51 / 51	58 / 59
	Outdoor	Cooling/Heating	15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	10 / 9 / 8	19 / 15 / 10
External static pressure*3	Indoor	Cooling (Hi/Ma/Lo)	15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	10 / 9 / 8	19 / 15 / 10
	Outdoor	Cooling/Heating	75 / 73	75 / 73	135 / 135	143 / 151	75 / 73	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	Standard:35 Max:100		Standard:60 Max:100		Standard:35 Max:100	
	Outdoor	HeightxWidthxDepth	280 x 950 x 635		280 x 1,370 x 740		280 x 750 x 635	
Net weight	Indoor		845 x 970 x 370		1,300 x 970 x 370		845 x 970 x 370	
	Outdoor		34		54		29	
Ref.piping size	Liquid/Gas	ømm	83		115		83	
Refrigerant line (one way) length		m	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")		9.52(3/8") / 15.88(5/8")	
Vertical height differences	Outdoor is higher/lower	m	Max.50		Max.70		Max.50	
Outdoor operating temperature range	Cooling	°C	-15~43**		-15~50**		-15~43**	
	Heating	°C	-20~20		-15~20		-20~20	
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)					
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

Set model name		Standard Inverter			
		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		5	5	5	
Max. current		14.5	18.0	22.0	
Sound power level*1	Indoor	Cooling/Heating	65 / 65	65 / 65	
	Outdoor	Cooling/Heating	67 / 67	69 / 69	
Sound pressure level*1 =2	Indoor	Cooling (Hi/Ma/Lo)	33 / 29 / 25	38 / 36 / 30	
	Outdoor	Cooling/Heating	33 / 29 / 25	38 / 36 / 30	
Air flow #2	Indoor	Cooling (Hi/Ma/Lo)	54 / 54	57 / 55	
	Outdoor	Cooling/Heating	19 / 15 / 10	28 / 25 / 19	
External static pressure*3	Indoor	Cooling (Hi/Ma/Lo)	19 / 15 / 10	28 / 25 / 19	
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	
Exterior dimensions	Indoor	HeightxWidthxDepth	Standard:35 Max:200		
	Outdoor	HeightxWidthxDepth	Standard:60 Max:100		
Net weight	Indoor		280 x 950 x 635		
	Outdoor		640 x 800(+71) x 290		
Ref.piping size	Liquid/Gas	ømm	750 x 880(+88) x 340		
Refrigerant line (one way) length		m	845 x 970 x 370		
Vertical height differences	Outdoor is higher/lower	m	34		
Outdoor operating temperature range	Cooling	°C	54		
	Heating	°C	70		
Air filter			6.35(1/4") / 12.7(1/2")		
Remote control (option)			6.35(1/4") / 15.88(5/8")		
			9.52(3/8") / 15.88(5/8")		
			Max.30		
			Max.20 / Max.20		
			-15~46**		
			-15~20		
			Filter kit : UM-FL2EF / UM-FL3EF (option)		
			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

#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 38m³/min, 100VNP1VF2 38m³/min

WALL MOUNTED SRK



NEW



Only used with Multi System.

SRK 50•60



Common to the both case of Single and Multi

SRK 100

NEW

Wired remote control (option)



RC-EX3



RC-E5

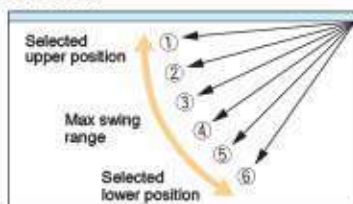


RCH-E3

Point 4

Flap control system

The flap can swing within the range of upper and lower flap position selected.

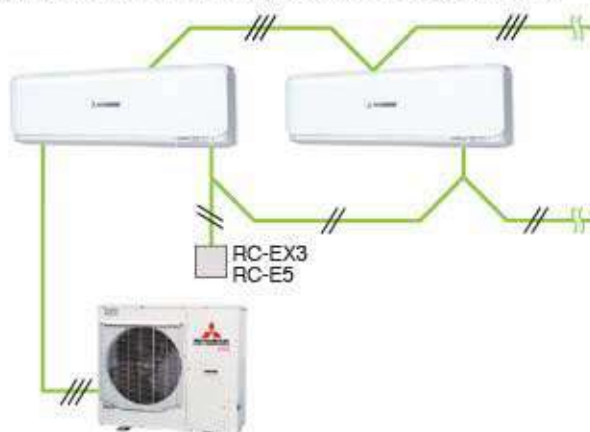


*The wireless remote control is not applicable to the flap control system.

Point 5

Indoor unit connection

Max three indoor units are connectable to one outdoor unit.



*SC-BIKN-E is necessary to connect to wired remote controller.



Point 1

Elegant Timeless Design

The new SRK series air-conditioners have been stylishly designed with rounded contours that fit beautifully into any of Europe's diverse interior settings.

The design was created by the Italian industrial design studio Tensa srl, based in Milan, to respond to a broad spectrum of local user needs.

Point 2

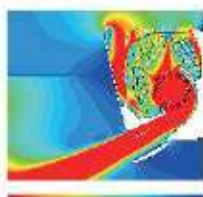
Jet Technology

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

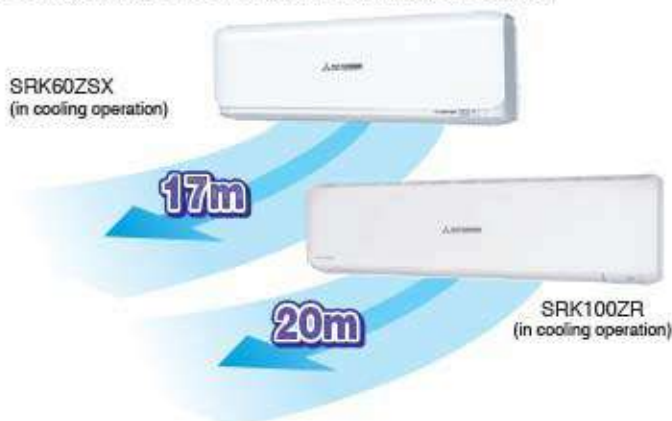


Fast ← → Slow
Colors in the figure show the air speed.

Point 3

Long Reach Air Flow

Powerful airflow is realized by Jet technology. Good for large living rooms and shops, which increase comfort.

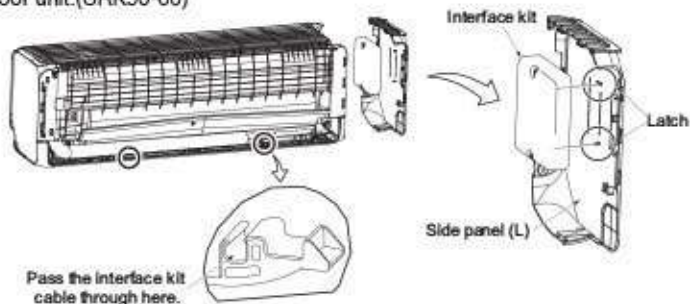


Part 6

SC-BIKN-E connection

(option)

Interface kit can be built into indoor unit. (SRK50-60)



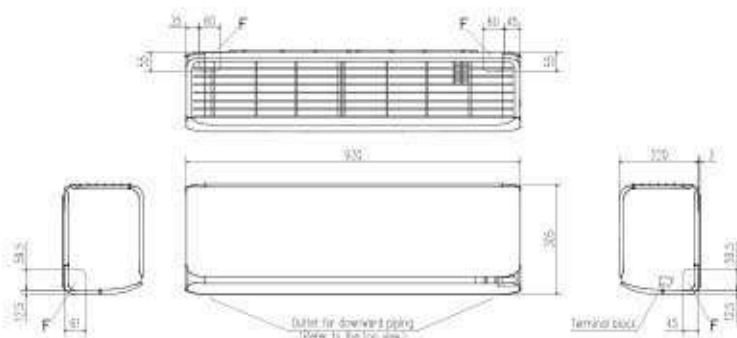
Pass the interface kit cable through here.

OUTDOOR UNIT

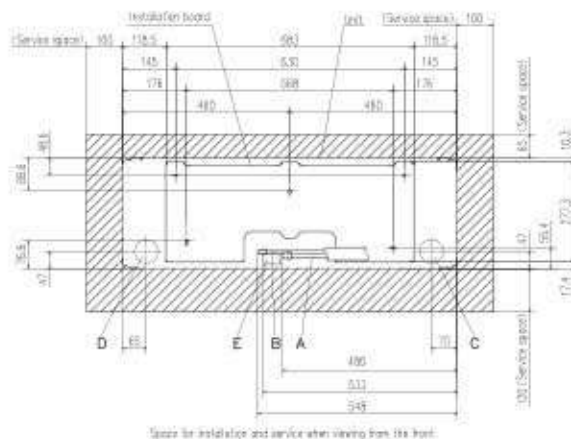
FDC	Hyper Inverter	Micro Inverter		Standard Inverter
	100~140VN(S)X	100~140VN(S)	200VSA	100VNP
model				
Chargeless	30m	30m	30m	15m
Height x Width x Depth (mm)	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	845 x 970 x 370

DIMENSIONS (Unit:mm)

SRK50ZSX-S, 60ZSX-S

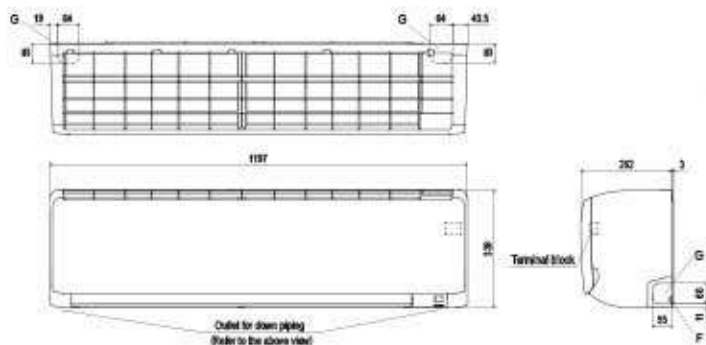


Symbol	Content
A	Gas piping
B	Liquid piping
C	Hole on wall for right rear piping
D	Hole on wall for left rear piping
E	Drain hose
F	Outlet for piping

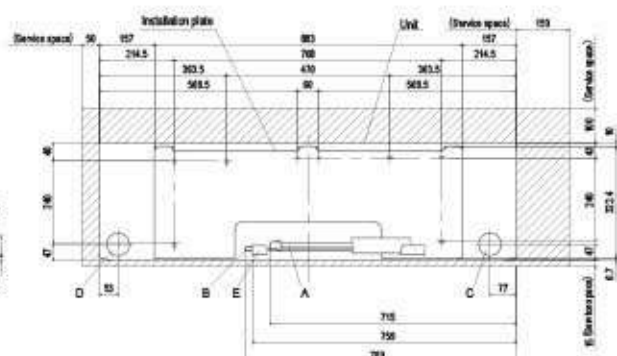


Space for installation and service when viewing from the front

SRK100ZR-S



Symbol	Content
A	Gas piping
B	Liquid piping
C	Hole on wall for right rear piping
D	Hole on wall for left rear piping
E	Drain hose
F	Outlet for wiring (on both side)
G	Outlet for piping (on both side)



Space for installation and service when viewing from the front

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter						
		SRK100VNXPSX	SRK125VNXPSX	SRK140VNXPSX	SRK100VSPSX	SRK125VSPSX	SRK140VSPSX	
		Twin		Triple	Twin		Triple	
Indoor unit		SRK50ZSX-S	SRK60ZSX-S	SRK50ZSX-S	SRK50ZSX-S	SRK60ZSX-S	SRK50ZSX-S	
Outdoor unit		FDC100VNX	FDC125VNX	FDC140VNX	FDC100VNX	FDC125VNX	FDC140VNX	
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	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	
Max. current		A		24	26	26	15	
Sound power level*1	Indoor	Cooling/Heating	59 / 62	62 / 63	59 / 62	59 / 62	62 / 63	
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	70 / 70	72 / 72	
Sound pressure level*1	Indoor	Cooling (Hi/Ma/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22	44 / 39 / 31 / 22	46 / 41 / 33 / 22	
	Outdoor	Heating (Hi/Ma/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23	46 / 41 / 33 / 23	46 / 41 / 33 / 23	
Air flow	Indoor	Cooling (Hi/Ma/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	
	Outdoor	Heating (Hi/Ma/Lo/Ulo)	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	
Exterior dimensions	Indoor	Height/Width/Depth	mm				305 x 920 x 220	
	Outdoor	Height/Width/Depth	mm				1,300 x 970 x 370	
Net weight	Indoor		kg				13	
	Outdoor		kg				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	°C				-20~20		
Air filter, Q'ty						Polypropylene net x 2(washable)		
Remote control (option)						wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E		

The values are for simultaneous Multi operation.

Set model name		Micro Inverter						
		SRK100VNPZSX	SRK125VNPZSX	SRK140VNPZSX	SRK100VSPZSX	SRK125VSPZSX	SRK140VSPZSX	
		Twin		Triple	Twin		Triple	
Indoor unit		SRK50ZSX-S	SRK60ZSX-S	SRK50ZSX-S	SRK50ZSX-S	SRK60ZSX-S	SRK50ZSX-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	2.84 / 2.86	4.25 / 4.29	4.53 / 4.05	2.84 / 2.86	4.25 / 4.29	4.53 / 4.05	
EER/COP	Cooling/Heating	3.52 / 3.92	2.94 / 3.26	3.09 / 3.95	3.52 / 3.92	2.94 / 3.26	3.09 / 3.95	
Inrush current		A		5	5	5	5	
Max. current		A		24	24	15	15	
Sound power level*1	Indoor	Cooling/Heating	59 / 62	62 / 63	59 / 62	59 / 62	62 / 63	
	Outdoor	Cooling/Heating	70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	
Sound pressure level*1	Indoor	Cooling (Hi/Ma/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22	44 / 39 / 31 / 22	46 / 41 / 33 / 22	
	Outdoor	Heating (Hi/Ma/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23	46 / 41 / 33 / 23	46 / 41 / 33 / 23	
Air flow	Indoor	Cooling (Hi/Ma/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	
	Outdoor	Heating (Hi/Ma/Lo/Ulo)	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	
Exterior dimensions	Indoor	Height/Width/Depth	mm				305 x 920 x 220	
	Outdoor	Height/Width/Depth	mm				845 x 970 x 370	
Net weight	Indoor		kg				13	
	Outdoor		kg				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	°C				-20~20		
Air filter, Q'ty						Polypropylene net x 2(washable)		
Remote control (option)						wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E		

SPECIFICATIONS

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

Set model name		Standard Inverter	
		SRK100VNP1ZR	SRK200VSAPZR Twin
Indoor unit		SRK100ZR-S	SRK100ZR-S
Outdoor unit		FDC100VNP	FDC200VSA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min-Max)	kW	10.0 (2.4 ~ 10.5)	19.0 (5.2 ~ 22.4)
Nominal heating capacity (Min-Max)	kW	11.2 (3.2 ~ 11.5)	22.4 (3.3 ~ 25.0)
Power consumption	Cooling/Heating kW	3.09 / 3.28	7.52 / 7.41
EER/COP	Cooling/Heating	3.24 / 3.41	2.53 / 3.02
Inrush current		14.4	5
Max. current		21	20
Sound power level*1	Indoor*2	Cooling/Heating	63 / 63
	Outdoor	Cooling/Heating	70 / 74
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Low/Uo)	48 / 45 / 40 / 27
	Outdoor	Heating (Hi/Me/Low/Uo)	48 / 43 / 38 / 30
Air flow	Indoor*2	Cooling/Heating	57 / 61
	Outdoor	Cooling/Heating	24.5 / 21.3 / 17.6
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262
	Outdoor		845 x 970 x 370
Net weight	Indoor		16.5
	Outdoor		70
Ref.piping size	Liquid/Gas	ømm	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.30 / Max.20
Outdoor operating temperature range	Cooling	°C	-15~46*3
	Heating		-15~20
Air filter, Q'ty			Polypropylene net x2 (Washable)
Remote control (option)			wired:RC-EX3, 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.

CEILING SUSPENDED FDE



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

Remote control (Option)



Point 1 High efficiency

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



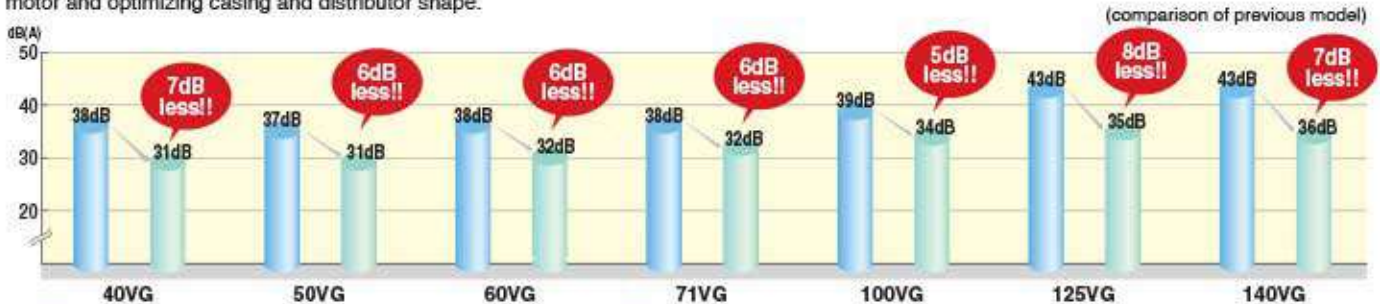
Point 2 Reduction of weight

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

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

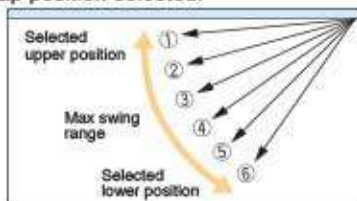
Point 3 More quiet noise

The industry's lowest sound pressure levels were achieved by decreasing air flow volume, decreasing pressure loss with employment of one fan motor and optimizing casing and distributor shape.



Point 4 Flap control system

The flap can swing within the range of upper and lower flap position selected.



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

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.



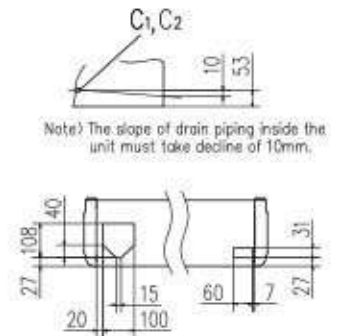
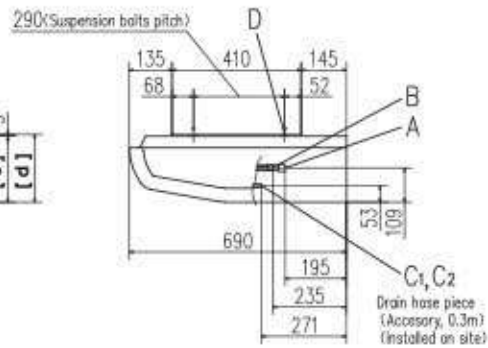
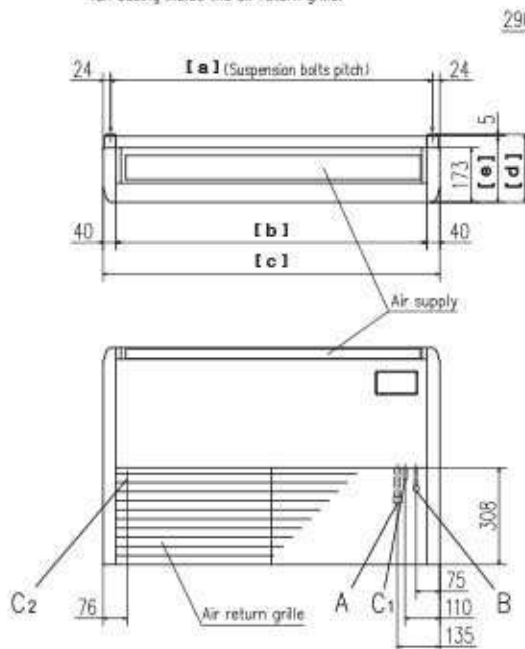
OUTDOOR UNIT

SRC • FDC	Hyper Inverter			Micro Inverter		
	40-60ZSX	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

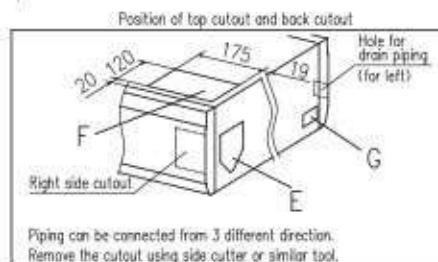
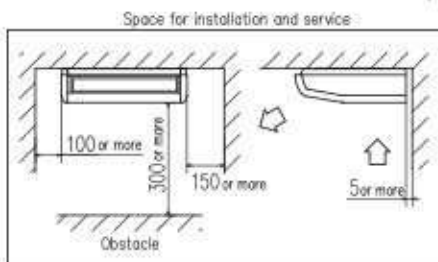
FDC	Standard Inverter		
	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm)

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



Symbol	Content	40-60VG	71-100-125-140VG
A	Gas piping	φ12.7(1/2")(Rare)	φ15.88(5/8")(Rare)
B	Liquid piping	φ6.35(1/4")(Rare)	φ9.52(3/8")(Rare)
C 1,2	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

		<i>Hyper Inverter</i>				
Set model name		FDE40ZSXVG	FDE50ZSXVG	FDE60ZSXVG	FDE71VNXVG	FDE100VNXVG
Indoor unit		FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-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	60 / 60	60 / 60	60 / 60	64 / 64
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64	66 / 66
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Mi/Lo)	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
		Heating (Hi/Mi/Lo)	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52	51 / 48
		Cooling/Heating	48 / 50	48 / 50	48 / 50	48 / 50
Air flow ※1	Indoor	Cooling (Hi/Mi/Lo)	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
		Heating (Hi/Mi/Lo)	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
	Outdoor	Cooling/Heating	36 / 33	40 / 33	41.5 / 39	60 / 50
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor	HeightxWidthxDepth	640 x 800(+71) x 290		750 x 880(+88) x 340	
Net weight	Indoor	kg	28		33	
	Outdoor	kg	45		60	
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	Outdoor is higher/lower	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	-15~46*3		-15~43*3	
	Heating	°C	-20~24		-20~20	
Air filter, Q'ty	Pocket Plastic net x2(Washable)					
Remote control (option)	wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2					

		<i>Hyper Inverter</i>				
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			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	3.50 / 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	64 / 64	65 / 65	64 / 64	64 / 64
	Outdoor	Cooling/Heating	70 / 70	72 / 72	70 / 70	70 / 70
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Mi/Lo)	45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35
		Heating (Hi/Mi/Lo)	45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35
	Outdoor	Cooling/Heating	48 / 50	49 / 52	48 / 50	48 / 50
		Cooling/Heating	49 / 52	49 / 52	48 / 50	49 / 52
Air flow ※1	Indoor	Cooling (Hi/Mi/Lo)	29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17
		Heating (Hi/Mi/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	250 x 1,620 x 690			
	Outdoor	HeightxWidthxDepth	1,300 x 970 x 370			
Net weight	Indoor	kg	43			
	Outdoor	kg	105			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length	Outdoor is higher/lower	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	°C	-20~20			
Air filter, Q'ty	Pocket Plastic net x2(Washable)					
Remote control (option)	wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2					

*1 Powerful-Hi can be selected.

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

Set model name		Hyper Inverter				
		FDE71VNXPVG	FDE100VNXPVG	FDE125VNXPVG	FDE140VNXPVG	FDE140VNXTVG
		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	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		5	5	5	5	5
Max. current		17	24	26	26	26
Sound power level*1	Indoor ²	Cooling/Heating	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/Ma/Lo)	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
	Outdoor	Heating (Hi/Ma/Lo)	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
Air flow ≈2	Indoor ²	Cooling (Hi/Ma/Lo)	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
	Outdoor	Heating (Hi/Ma/Lo)	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
Exterior dimensions	Indoor	HeightxWidthxDepth	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		28		33	
	Outdoor		60		105	
Ref.piping size	Liquid/Gas	ømm				
Refrigerant line (one way) length		m				
Vertical height differences	Outdoor is higher/lower	m				
Outdoor operating temperature range	Cooling	°C				
	Heating	°C				
Air filter, Q'ty		Pocket plastic net x 2(Washable)				
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2				

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter				
		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	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		5	5	5	5	
Max. current		15	15	15	15	
Sound power level*1	Indoor ²	Cooling/Heating	60 / 60	60 / 60	60 / 60	
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	
Sound pressure level*1 ≈2	Indoor ²	Cooling (Hi/Ma/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	
	Outdoor	Heating (Hi/Ma/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	
Air flow ≈2	Indoor ²	Cooling (Hi/Ma/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
	Outdoor	Heating (Hi/Ma/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690		210 x 1,070 x 690	
	Outdoor				1,300 x 970 x 370	
Net weight	Indoor		28		33	
	Outdoor		60		105	
Ref.piping size	Liquid/Gas	ømm				
Refrigerant line (one way) length		m				
Vertical height differences	Outdoor is higher/lower	m				
Outdoor operating temperature range	Cooling	°C				
	Heating	°C				
Air filter, Q'ty		Pocket plastic net x 2(Washable)				
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2				

*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			kW		
Nominal heating capacity (Min-Max)			kW			kW		
Power consumption			Cooling/Heating		kW		kW	
EER/COP			Cooling/Heating					
Inrush current			A		A		A	
Max. current			A		A		A	
Sound power level*1	Indoor	Cooling/Heating	dB(A)		dB(A)		dB(A)	
	Outdoor	Cooling/Heating	dB(A)		dB(A)		dB(A)	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)		dB(A)		dB(A)	
	Outdoor	Cooling/Heating	dB(A)		dB(A)		dB(A)	
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min		m³/min		m³/min	
		Heating (Hi/Me/Lo)	m³/min		m³/min		m³/min	
	Outdoor	Cooling/Heating	m³/min		m³/min		m³/min	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm					
	Outdoor	HeightxWidthxDepth	mm					
Net weight	Indoor		kg					
	Outdoor		kg					
Ref.piping size	Liquid/Gas		ømm					
Refrigerant line (one way) length			m					
Vertical height differences	Outdoor is higher/lower		m					
Outdoor operating temperature range	Cooling		°C					
	Heating		°C					
Air filter, Q'ty			Pocket Plastic net x2(Washable)					
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2					

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			kW		
Nominal heating capacity (Min-Max)			kW			kW		
Power consumption			Cooling/Heating		kW		kW	
EER/COP			Cooling/Heating					
Inrush current			A		A		A	
Max. current			A		A		A	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)		dB(A)		dB(A)	
	Outdoor	Cooling/Heating	dB(A)		dB(A)		dB(A)	
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)	dB(A)		dB(A)		dB(A)	
	Outdoor	Cooling/Heating	dB(A)		dB(A)		dB(A)	
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo)	m³/min		m³/min		m³/min	
		Heating (Hi/Me/Lo)	m³/min		m³/min		m³/min	
	Outdoor	Cooling/Heating	m³/min		m³/min		m³/min	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm					
	Outdoor	HeightxWidthxDepth	mm					
Net weight	Indoor		kg					
	Outdoor		kg					
Ref.piping size	Liquid/Gas		ømm					
Refrigerant line (one way) length			m					
Vertical height differences	Outdoor is higher/lower		m					
Outdoor operating temperature range	Cooling		°C					
	Heating		°C					
Air filter, Q'ty			Pocket plastic net x 2(Washable)					
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2					

※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.

Set model name	Micro Inverter						
	FDE140VSPVG	FDE200VSAPVG	FDE250VSAPVG	FDE140VSTVG	FDE200VSATVG		
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	
Max. current			15	20	21	15	20
Sound power level*1	Indoor	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	Cooling (Hi/Ma/Lo)	41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31	41 / 37 / 32
	Outdoor	Cooling (Hi/Ma/Lo)	41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31	41 / 37 / 32
Air flow *2	Indoor	Cooling (Hi/Ma/Lo)	16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7	16 / 13 / 10
	Outdoor	Cooling/Heating	16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7	16 / 13 / 10
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	HeightxWidthxDepth	mm	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	845 x 970 x 370
Net weight	Indoor		kg	33	43	28	33
	Outdoor		kg	83	115	143	83
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**1		-15~50**1	-15~43**1	-15~50**1
	Heating	°C	-20~20		-15~20	-20~20	-15~20
Air filter, Q'ty			Pocket plastic net x 2(Washable)				
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2				

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

Set model name	Micro Inverter		Standard Inverter				
	FDE200VSADVG	FDE250VSADVG	FDE71VNPVG	FDE90VNPVG	FDE100VNP1VG		
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 / 2.04
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	
Max. current			20	21	14.5	18.0	21.0
Sound power level*1	Indoor	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	Cooling (Hi/Ma/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34	43 / 38 / 34
	Outdoor	Cooling (Hi/Ma/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34	43 / 38 / 34
Air flow *2	Indoor	Cooling (Hi/Ma/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 / 38	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	HeightxWidthxDepth	mm	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		kg	28	33	33	43
	Outdoor		kg	115	143	45	57
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**1		-15~46**1	
	Heating	°C		-15~20		-15~20	
Air filter, Q'ty			Pocket plastic net x 2(Washable)		Pocket Plastic net x2(Washable)		
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2		

*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

FLOOR STANDING FDF



Wireless remote control (Option)

NEW



RCN-KIT4-E2



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.



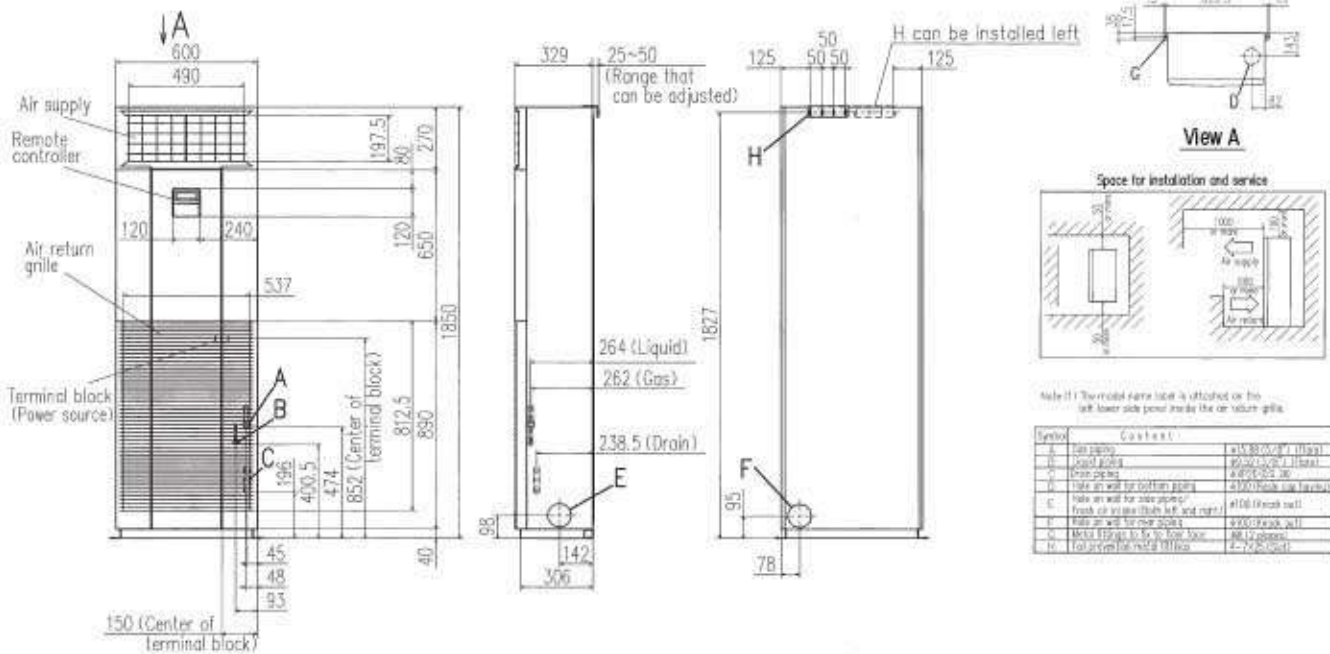
OUTDOOR UNIT

FDC	Hyper Inverter		Micro Inverter		
	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

		Hyper Inverter										
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		
Max. current		A		17		24		26		26		
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		dB(A)		66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level ^{*1} =1	Indoor	Cooling (Hi/Ma/Lo)		dB(A)		39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44
	Outdoor	Cooling/Heating		dB(A)		39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44
Air flow =1	Indoor	Cooling (Hi/Ma/Lo)		m ³ /min		51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
	Outdoor	Cooling/Heating		m ³ /min		18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth		mm		1,850 x 600 x 320						
	Outdoor	HeightxWidthxDepth		mm		750 x 880(+88) x 340						
Net weight	Indoor	kg		49		52		105		105		
	Outdoor	kg		60		60		60		60		
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		°C		-20~20						
Air filter, Q'ty						Plastic net x 1(washable)						
Remote control						wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (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.

		<i>Hyper Inverter</i>	
Set model name		FDF140VNXPD1	FDF140VXSXD1
		Twin	
Indoor unit		FDF71VD1	
Outdoor unit		FDC140VNX	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz	
Nominal cooling capacity (Min-Max)		14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min-Max)		16.0 (4.0 ~ 18.0)	
Power consumption	Cooling/Heating	4.83 / 4.97	
EER/COP	Cooling/Heating	2.90 / 3.22	
Inrush current		5	
Max. current		26	
Sound power level*1	Indoor ² Cooling/Heating	61 / 61	
	Outdoor Cooling/Heating	72 / 72	
Sound pressure level*1 ※1	Indoor ² Cooling (Hi/Me/Lo)	39 / 35 / 33	
	Heating (Hi/Me/Lo)	39 / 35 / 33	
	Outdoor Cooling/Heating	49 / 52	
		49 / 52	
Air flow ※1	Indoor ² Cooling (Hi/Me/Lo)	16 / 14 / 12	
	Heating (Hi/Me/Lo)	16 / 14 / 12	
	Outdoor Cooling/Heating	100 / 100	
Exterior dimensions	Indoor	1,850 x 600 x 320	
	Outdoor	1,300 x 970 x 370	
Net weight	Indoor	49	
	Outdoor	105	
Ref.piping size	Liquid/Gas	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		Max.100	
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		Plastic net x 1 (washable)	
Remote control		wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)	

		<i>Micro Inverter</i>					
Set model name		FDF100VNV2	FDF125VNV2	FDF140VNV2	FDF100VSV2	FDF125VSV2	FDF140VSV2
Indoor unit		FDF100VD2		FDF125VD2		FDF140VD2	
Outdoor unit		FDC100VN		FDC125VN		FDC140VN	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min-Max)		10.0 (4.0 ~ 11.2)		12.5 (5.0 ~ 14.0)		14.0 (5.0 ~ 14.5)	
Nominal heating capacity (Min-Max)		11.2 (4.0 ~ 12.5)		14.0 (4.0 ~ 16.0)		16.0 (4.0 ~ 16.5)	
Power consumption	Cooling/Heating	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	
Inrush current		5		5		5	
Max. current		24		24		15	
Sound power level*1	Indoor Cooling/Heating	65 / 65		73 / 73		73 / 73	
	Outdoor Cooling/Heating	70 / 70		72 / 72		73 / 73	
Sound pressure level*1 ※1	Indoor Cooling (Hi/Me/Lo)	50 / 48 / 44		50 / 48 / 44		50 / 48 / 44	
	Heating (Hi/Me/Lo)	50 / 48 / 44		50 / 48 / 44		50 / 48 / 44	
	Outdoor Cooling/Heating	49 / 49		50 / 51		51 / 51	
		49 / 49		50 / 51		51 / 51	
Air flow ※1	Indoor Cooling (Hi/Me/Lo)	26 / 23 / 19		26 / 23 / 19		26 / 23 / 19	
	Heating (Hi/Me/Lo)	26 / 23 / 19		26 / 23 / 19		26 / 23 / 19	
	Outdoor Cooling/Heating	75 / 73		75 / 73		75 / 73	
Exterior dimensions	Indoor	1,850 x 600 x 320					
	Outdoor	845 x 970 x 370					
Net weight	Indoor	52					
	Outdoor	81					83
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		Plastic net x 1 (Washable)					
Remote control		wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)					

※1 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

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.

Set model name		Micro Inverter			
		FDf140VNPVD1	FDf140VSPVD1	FDf200VSAPVD2	FDf250VSAPVD
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		5	5	5	5
Max. current		24	15	20	21
Sound power level*1	Indoor	Cooling/Heating	61 / 61	61 / 61	65 / 65
	Outdoor	Cooling/Heating	73 / 73	73 / 73	72 / 74
Sound pressure level*1 *2	Indoor	Cooling (Hi/Ma/Lo)	39 / 35 / 33	39 / 35 / 33	50 / 48 / 44
	Outdoor	Cooling/Heating	39 / 35 / 33	39 / 35 / 33	50 / 48 / 44
Air flow *2	Indoor	Cooling (Hi/Ma/Lo)	16 / 14 / 12	16 / 14 / 12	26 / 23 / 19
	Outdoor	Cooling/Heating	16 / 14 / 12	16 / 14 / 12	26 / 23 / 19
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 320		
	Outdoor	HeightxWidthxDepth	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		49	52	52
	Outdoor		81	83	143
Ref.piping size	Liquid/Gas	ømm	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
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*3		-15~50*1
	Heating		-20~20		-15~20
Air filter, Q'ty			Plastic net x 1(washable)		
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

Set model name		Standard Inverter			
		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		5	5	5	
Max. current		14.5	18.0	21.0	
Sound power level*1	Indoor	Cooling/Heating	61 / 61	65 / 65	
	Outdoor	Cooling/Heating	67 / 67	69 / 69	
Sound pressure level*1 *2	Indoor	Cooling (Hi/Ma/Lo)	39 / 35 / 33	50 / 48 / 44	
	Outdoor	Cooling/Heating	39 / 35 / 33	50 / 48 / 44	
Air flow *2	Indoor	Cooling (Hi/Ma/Lo)	18 / 16 / 14	26 / 23 / 19	
	Outdoor	Cooling/Heating	18 / 16 / 14	26 / 23 / 19	
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 320		
	Outdoor	HeightxWidthxDepth	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		49	52	
	Outdoor		45	70	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m	Max.23		
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-KIT4-E2 (option)		

*2 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

CONTROL SYSTEMS

Remote Control line up

wired		indoor unit	remote control	wireless		indoor unit	remote control	indoor unit	remote control
			RC-EX3			FDT	RCN-T-5AW-E2	FDE	RCN-E-E2
		all models	RC-E5			FDTc	RCN-TC-24W-E2	FDU,FDUM,PDF	RCN-KIT4-E2
			RCH-E3						

Wired remote control (option)

RC-EX3

Easy touch and Easy view 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

NEW

Easy view

- Big LCD with 3.8 inch full dot display
- Back light function
- Multi language display (12 languages)

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 Δ ∇ button.

Operation mode



Run / Stop

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

	Function name	Description
Economy & Timer	Energy-saving operation	Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.
	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).
	Set temperature auto return	The temperature automatically returns to the previously set temperature.
	Set ON timer by hour	When the set time elapses, the air conditioner starts.
	Set OFF timer by hour	When the set time elapses, the air conditioner stops.
	Set ON timer by clock	The air conditioner starts at the set time.
	Set OFF timer by clock	The air conditioner stops at the set time.
	Weekly timer	On or Off timer can be set on a weekly basis.
	Peak-cut timer	Capacity control can be set by using peak cut function on RC-EX3 for better energy saving. Five-step capacity control is available.
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.
	Big LCD & Touch screen panel	Large 3.8 inch screen has resulted in improved visibility and operability.
	Easy modification of individual flap control NEW	User can visually confirm and set the direction of louvres using the visual display on the remotecontroller.
	Automatic fan speed *1	The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature.
	Temp increment setting	Temperature increment for the change of the set temp can be changed.
Convenience	Silent mode	Set the period of time to operate the Outdoor unit with prioritizing the quietness.
	Function switch*1 NEW	The function switch allows user to select and set two functions among six available functions.
	Favorite setting*1 NEW	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	Adjusting Brightness of the operation lamp NEW	The brightness of the background light can be adjusted by 10 stages.
	LCD contrast setting NEW	This function allows user to adjust LCD display contrast.
	High power operation	High Power Mode increases the unit operating ability for 15 minutes to quickly adjust the room temperature to a comfortable level.
	Back light setting	This convenient function allows user to see controls under low light conditions.
	Administrator settings	This function only allows specific individuals to operate the unit.
	Setting temp range	Limited range of setting temperature in the heating or the cooling operation can be selected.
	External Input/Output Function NEW	The external input/output of indoor unit by remote controller can set input/output based on user needs.
Service	Select the language	Set the language to be displayed on the remote control.
	USB connection (mini-B)	This function allows batch input of schedule timer settings and other settings involving a large amount of data.
	Error code display	This function allows user to check information displayed when abnormal function of the unit occurs.
	Operation data display	Displays various types of air conditioner operation data in real time.
	Contact company display	Address of the service contact is displayed.
	Filter sign	Announces the due time for cleaning of the air filter.
	Static pressure adjustment	Allows user to adjust duct static pressure using the remote control.
Backup Control	Allows for rotation control, fault backup control, and capacity backup control.	

*1 Cannot be used when a centralized control remote is connected.

Wireless remote control (option)

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

NEW

RCN-T-5AW-E2



RCN-TC-24W-E2



RCN-KIT4-E2



RCN-E-E2



※ Wireless remote control is not applicable to the individual flap control system.

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.
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.

Thermistor (option)

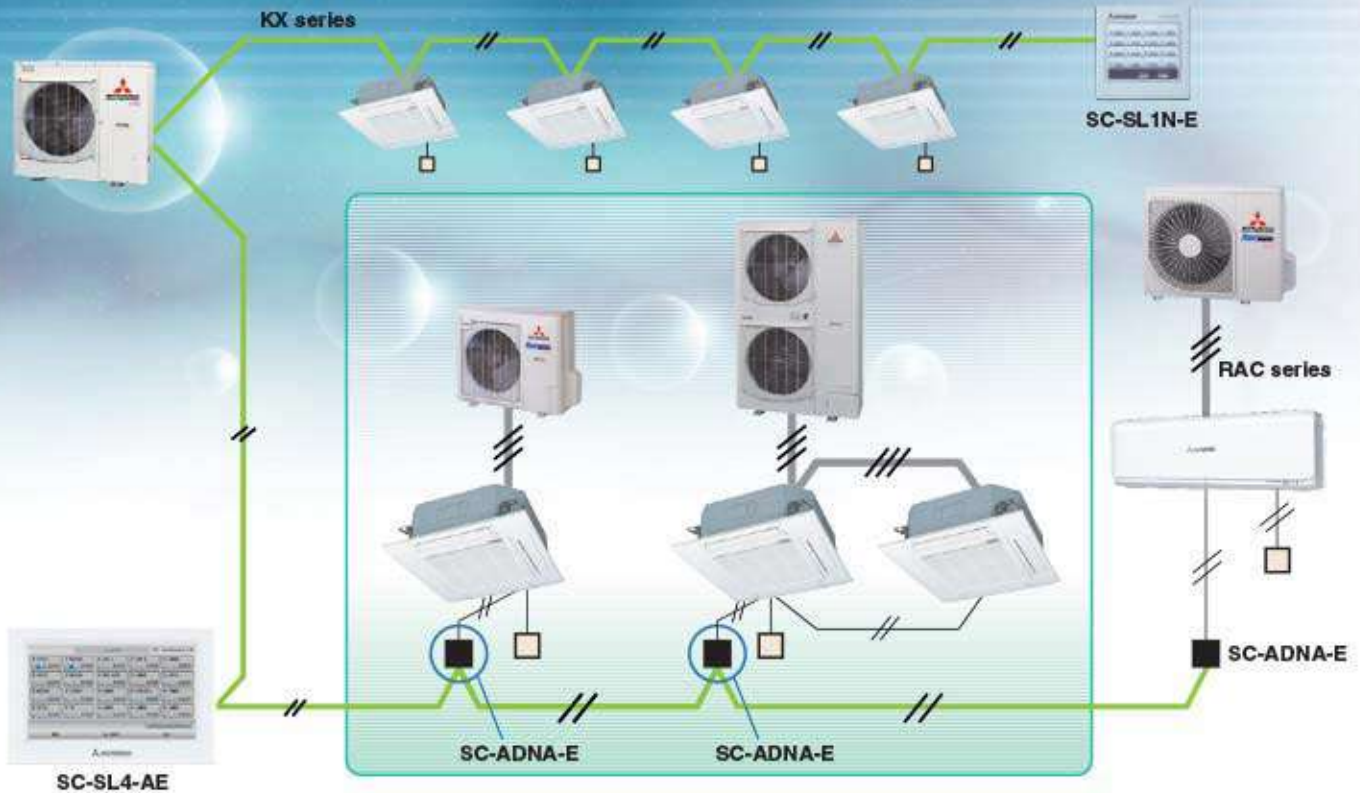
SC-THB-E3

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 SYSTEMS

SUPERLINK-II



Central Control

SC-SL1N-E



Start/stop control of up to 16 indoor units is possible either individually or collectively. With simple operations, you can effect centralized control.

SC-SL2NA-E



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

SC-SL4-AE/BE



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

Building Management Systems

NEW

SC-WBGW256* (Web gateway / BACnet gateway)

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



Production by order

SC-WBGW256, up to 256 cells (some cells can have two or more indoor units and total number of indoor units can be up to 256 units) are controlled from the Internet Explorer and centrally from Building Management Systems.

NEW

SC-LGWNB* (LonWorks gateway)



Production by order

Up to 96 indoor units (48 indoor units x2) can be integrated to a central control point via the building management system network.

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

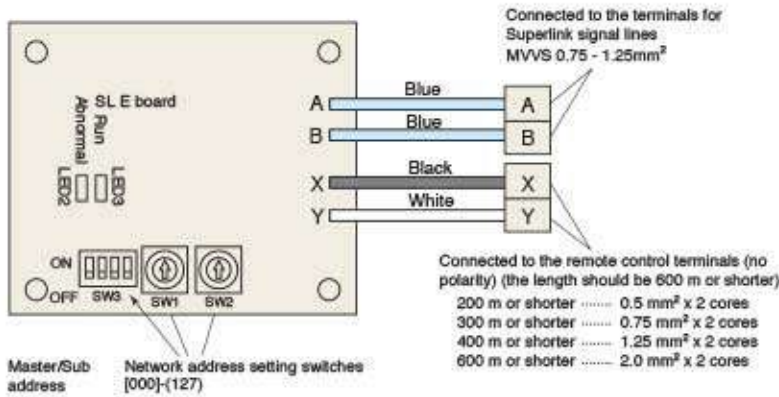
SUPERLINK E BOARD (SC-ADNA-E)

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

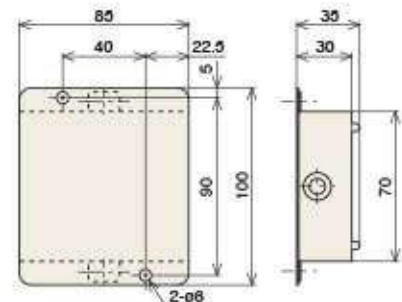
(1) Functions

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

(2) Wiring connection diagram



(3) Metal box dimension (unit:mm)



Basic Connections	Plural Controls by Multiple Remote Controls. Mixture of Multiple Units		
	<ul style="list-style-type: none"> • Transmit the information of plural "Master" units to the network. • Transmit the abnormalities of the "Slave" units to the network. ▶ Setting the plural "Master/Slave" units with the dip SW of the printed circuit board. ▶ Setting the "Master/Slave" remote controls with the dip SW of the remote control board. 		
<p>▶ Set up "000" to "127" using address switch on the SL E board.</p>		<h3>Without Remote Control</h3> <p>▶ Set the SL E board dip SW to "Master" SW3-1 ON. * The network option SL1N-E is not allowed (This will disturb switching of the operation mode)</p>	<h3>Wireless Kit</h3>

External switch connection CNT, CNTA

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.



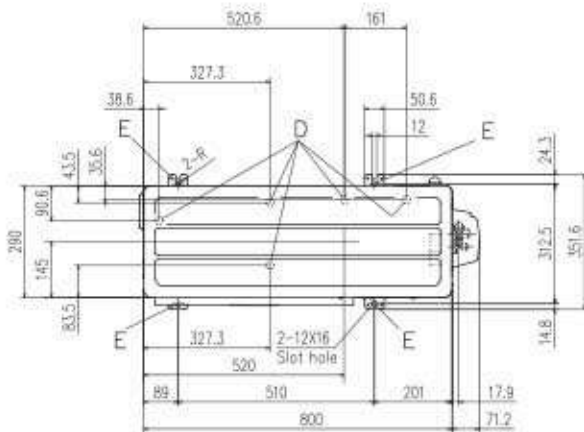
Remote surveillance system



Card key on-off

OUTDOOR UNIT DIMENSIONS (unit:mm)

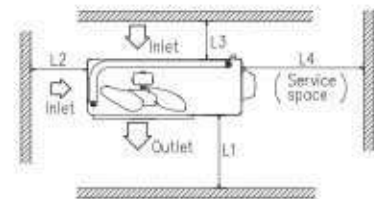
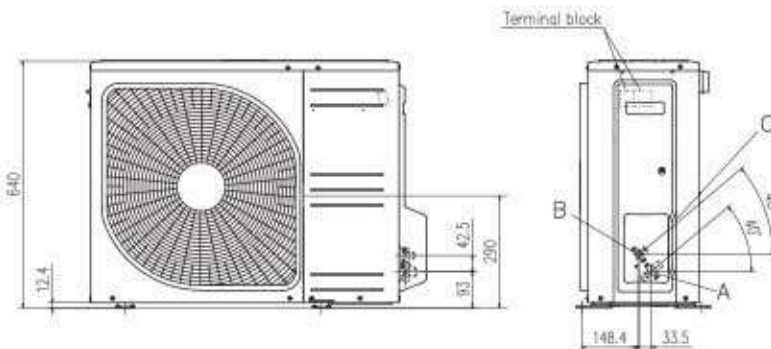
SRC40ZSX-S, 50ZSX-S, 60ZSX-S



Symbol	Content
A	Service valve connection (gas side) $\phi 12.7$ (1/2") (Flare)
B	Service valve connection (liquid side) $\phi 6.35$ (1/4") (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 5$ places
E	Anchor bolt hole M10-12 $\times 4$ places

Notes

- (1) The unit 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) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
- (4) Leave 200mm or more space above the unit.
- (5) The wall height on the outlet side should be 1200mm or less.
- (6) The model name label is attached on the front side of the unit.



Minimum installation space

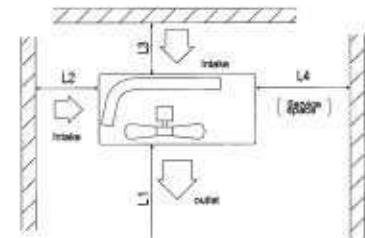
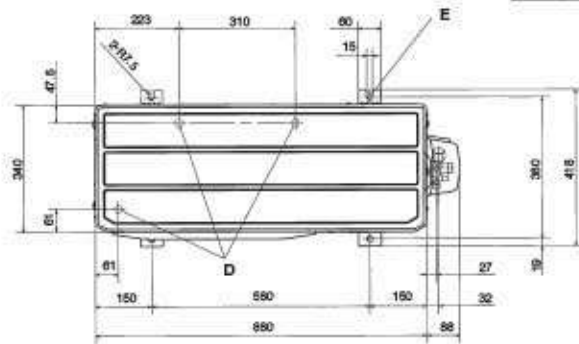
Complete installation Size	I	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

FDC71VNX

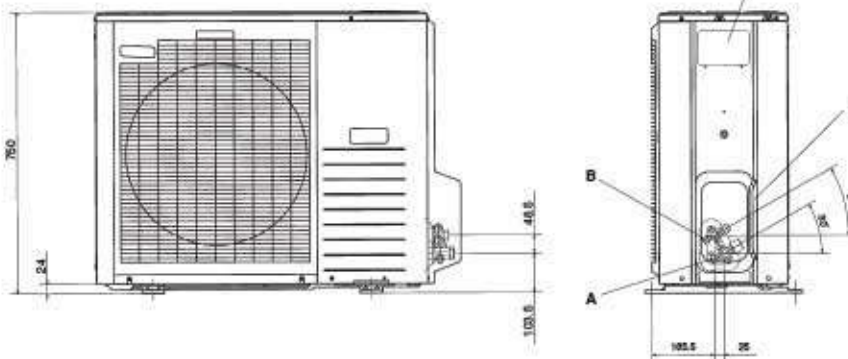
Mark	Item
A	Service valve connection (gas side) $\phi 15.88$ (5/8") (Flare)
B	Service valve connection (liquid side) $\phi 9.52$ (3/8") (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 3$ places
E	Anchor bolt hole M10 $\times 4$ places

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 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.

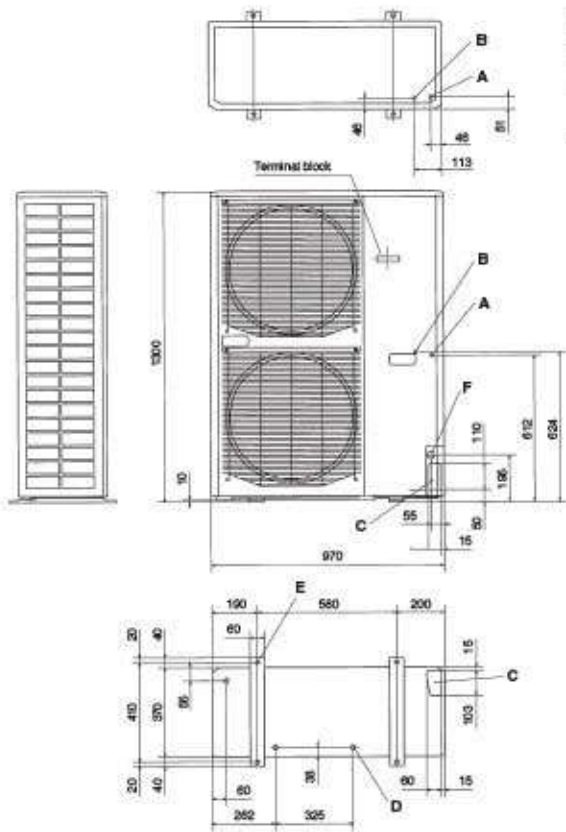


Minimum installation space



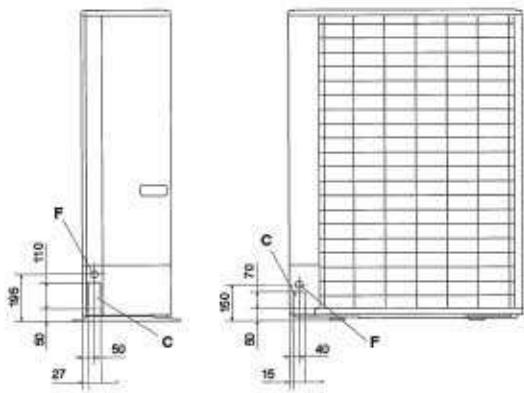
Complete installation Dimensions	1	2	3
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

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



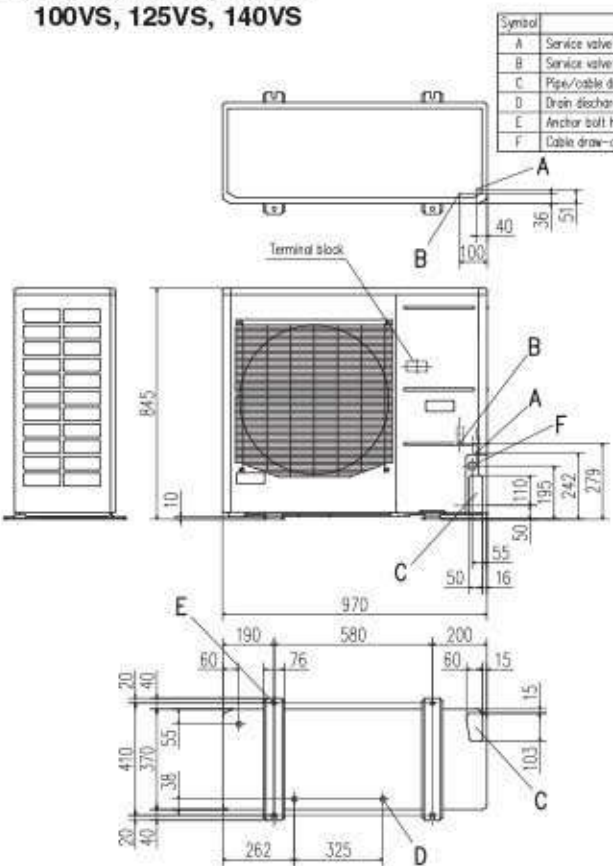
Mark	Item	
A	Service valve connection of the attached connecting pipe(gas side)	ø15.88(5/8") (Flare)
B	Service valve connection(liquid side)	ø9.52(3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x3places
E	Anchor bolt hole	M10x4places
F	Cable draw-out hole	ø30(front) ø45(side) ø50(back)

- 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)



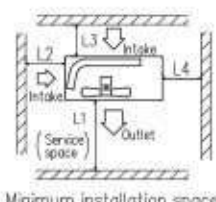
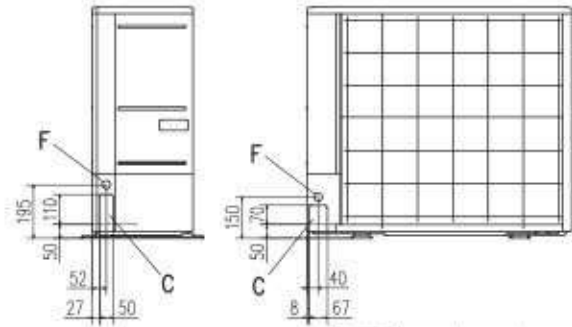
Example of installation Dimensions	1	2	3
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

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



Symbol	Content	
A	Service valve connection (gas side)	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	ø30x3places

- 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.

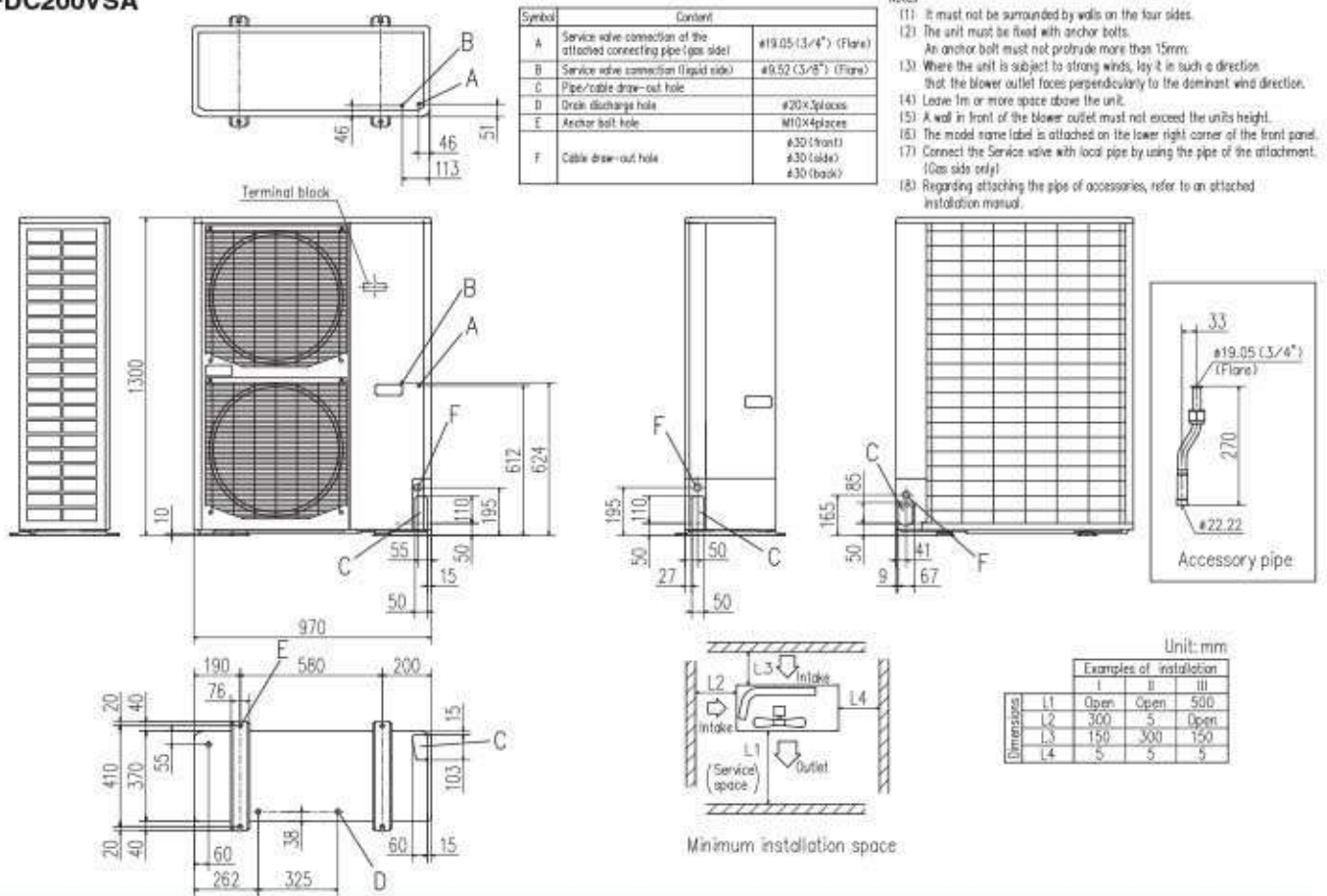


Example of installation Dimensions	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

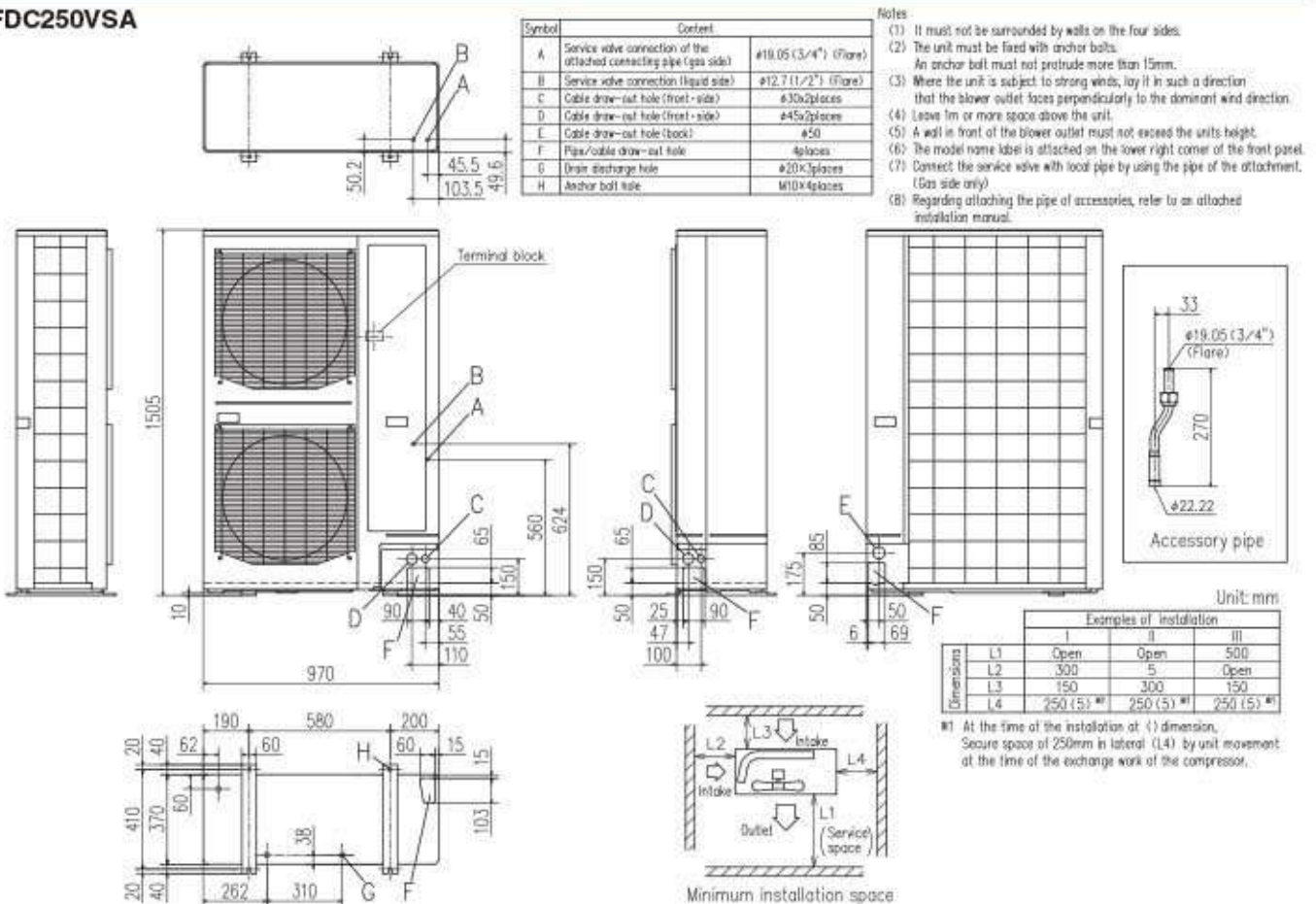
Unit: mm

OUTDOOR UNIT DIMENSIONS (unit:mm)

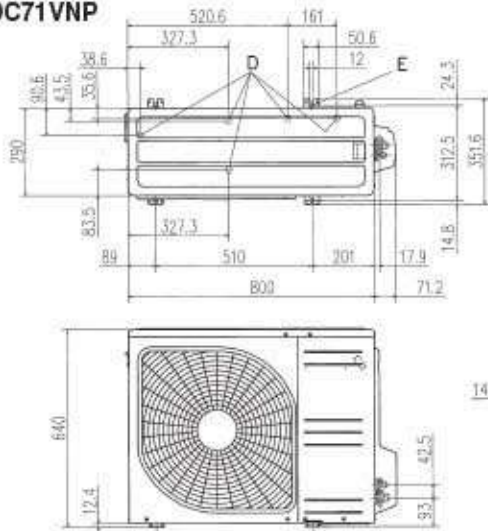
FDC200VSA



FDC250VSA

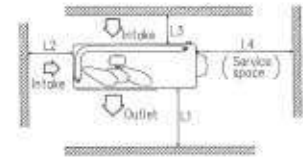


FDC71VNP



Symbol	Content
A	Service valve connection (gas side) $\phi 12.7$ (1/2") (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

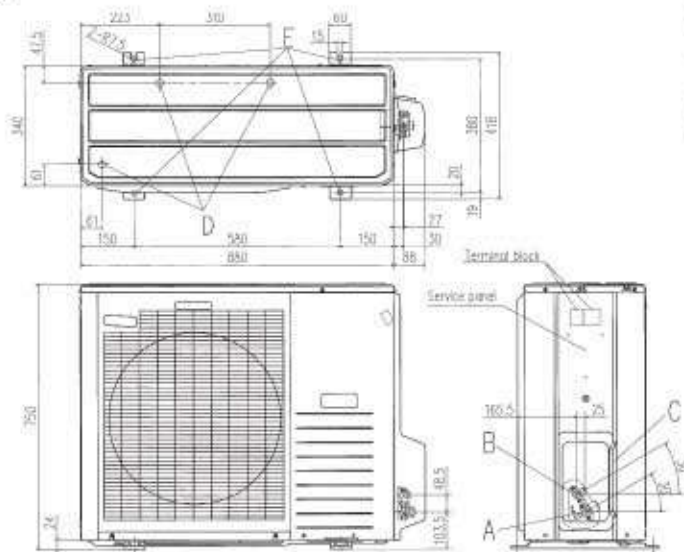
- Note
- (1) It must not be surrounded by walls on the four sides.
 - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 10mm.
 - (3) Where the unit is subject to strong winds, fix it in such a direction that the blower outlet faces perpendicularly to the dominant 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.



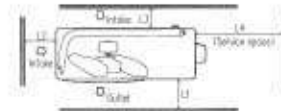
Minimum installation space

Dimensions	Direction of installation			
	I	II	III	IV
L1	Open	290	290	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

FDC90VNP



- 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 10mm.
 - (3) Where the unit is subjected to strong winds, fix 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.

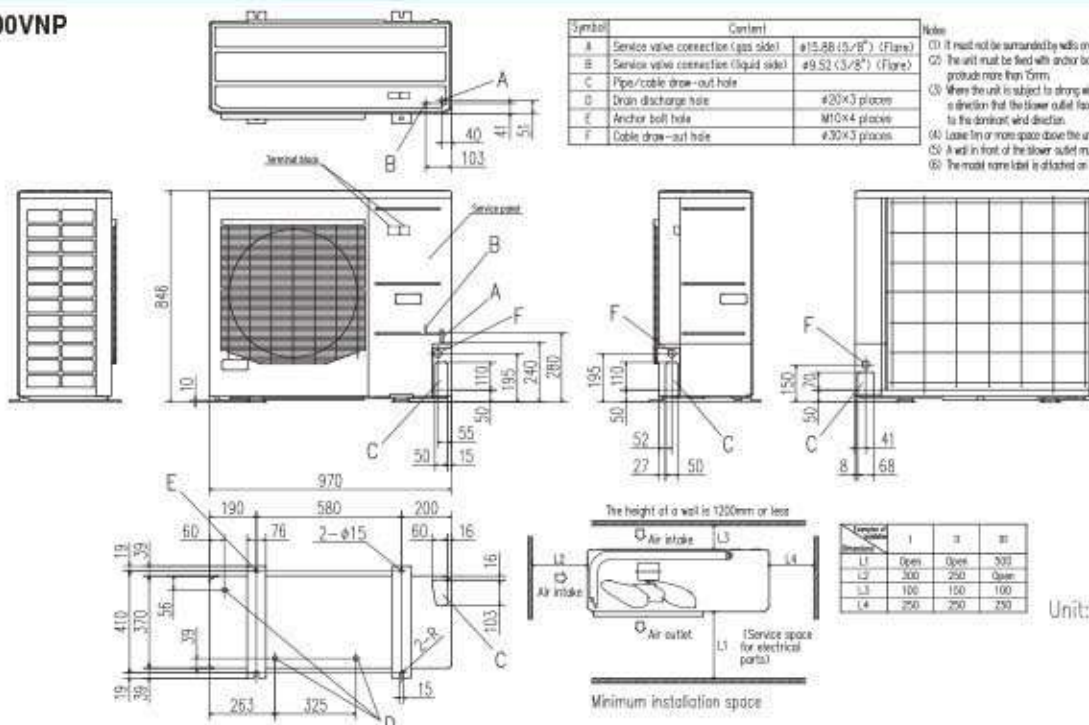


Minimum installation space

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

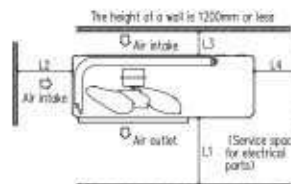
Symbol	Content
A	Service valve connection (gas side) $\phi 15.88$ (5/8") (Flare)
B	Service valve connection (liquid side) $\phi 9.52$ (3/8") (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 3$ pieces
E	Anchor bolt hole $M10 \times 4$ pieces
F	Cable draw-out hole $\phi 30 \times 3$ pieces

FDC100VNP



Symbol	Content
A	Service valve connection (gas side) $\phi 15.88$ (5/8") (Flare)
B	Service valve connection (liquid side) $\phi 9.52$ (3/8") (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 3$ pieces
E	Anchor bolt hole $M10 \times 4$ pieces
F	Cable draw-out hole $\phi 30 \times 3$ pieces

- Note
- (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 10mm.
 - (3) Where the unit is subject to strong winds, fix 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

Dimensions	Direction of installation		
	I	II	III
L1	Open	Open	300
L2	300	250	Open
L3	100	100	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.

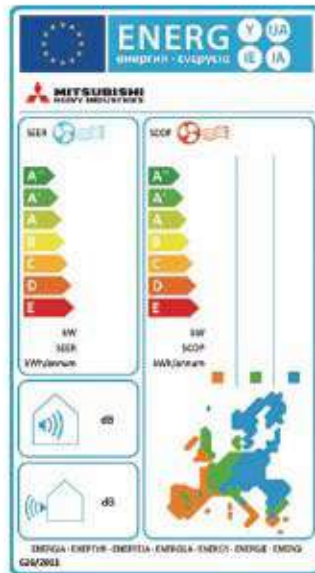
Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

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	FDT40VG	FDT50VG	FDT60VG	FDT71VG	FDT100VG	FDT100VG	FDT40VGx2	FDT50VGx2	FDT50VGx2	
Outdoor unit	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VNX	FDC71VNX	FDC100VNX	FDC100VNX	
Energy class (cooling/heating)	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	
SEER	8.28	7.76	8.26	5.72	5.90	5.90	5.77	5.92	5.92	
SCOP (Average climate)	4.45	4.61	5.00	4.34	4.32	4.32	4.34	4.16	4.16	
Pdesignc	kW	4.0	5.0	5.6	7.1	10.0	10.0	7.1	10.0	
Pdesignh (@-10°C)	kW	3.8	4.1	4.7	5.8	11.2	11.2	5.8	11.2	
Annual electricity consumption (cooling/heating)	kWh/s	170/1197	226/1246	238/1317	435/1870	594/3626	594/3626	431/1872	592/3774	
Refrigerant (R410A)	GWP charge	1.5/3.132		2.95/6.160	4.5/9.396		2.95/6.160	4.5/9.396		
Designated heating season		Average								

Indoor unit	FDT100VG	FDT100VG	FDT50VGx2	FDT50VGx2	FDT71VG	FDT100VG	FDT100VG	FDT100VG	FDT40VF	FDT50VF
Outdoor unit	FDC100VN	FDC100VS	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZSX-S	SRC50ZSX-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	5.61	5.90	5.90	6.14	6.78	6.78	6.53	6.01	
SCOP (Average climate)	4.10	4.10	4.00	4.00	4.27	4.12	4.53	3.96	3.85	
Pdesignc	kW	10.0	10.0	10.0	7.1	9.0	10.0	4.0	5.0	
Pdesignh (@-10°C)	kW	7.9	7.9	7.9	7.9	5.7	8.1	4.0	4.8	
Annual electricity consumption (cooling/heating)	kWh/s	625/2699	625/2699	593/2765	593/2765	405/1870	465/2756	517/2505	215/1416	
Refrigerant (R410A)	GWP charge	3.8/7.934			1.6/3.341	2.1/4.385	2.55/5.324	1.5/3.132		
Designated heating season		Average								

Indoor unit	FDT60VF	FDT40VFx2	FDT50VFx2	FDT50VFx2	FDT50VFx2	FDT50VFx2	FDT71VF1	FDT100VF2	FDT100VF2	
Outdoor unit	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VNX	FDC100VNX	FDC100VNX	FDC71VNX	FDC100VNX	FDC100VNX	
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/s	341/2172	468/2455	670/3692	674/3695	678/3424	682/3428	475/2513	670/4437	
Refrigerant (R410A)	GWP charge	1.5/3.132	2.95/6.160	4.5/9.396		3.8/7.934		2.95/6.160	4.5/9.396	
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	FDU71VF1	FDU100VF2	FDU100VF2	FDM40VF	FDM50VF	FDM50VF	FDM71VF1	
Outdoor unit	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZSX-S	SRC50ZSX-S	SRC50ZSX-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	5.88	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	
Pdesignh (@-10°C)	kW	9.3	9.3	5.7	8.1	8.1	3.5	4.3	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 (R410A)	GWP					2088				
	charge kg/TQ	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324		1.5/3.132	2.95/6.160	
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	
Pdesignh (@-10°C)	kW	13.0	13.0	7.0	10.0	10.0	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 (R410A)	GWP					2088				
	charge kg/TQ	4.5/9.396		2.95/6.160	4.5/9.396		3.8/7.934			
Designated heating season		Average								

Indoor unit	FDM71VF1	FDM100VF2	FDM100VF2	SRK100Z-S	SRK50ZSX-Sx2	SRK50ZSX-Sx2	SRK50ZSX-Sx2	SRK50ZSX-Sx2	
Outdoor unit	FDC71VNP	FDC90VNP	FDC100VNP	FDC100VNX	FDC100VSX	FDC100VNX	FDC100VN	FDC100VS	
Energy class (cooling/heating)	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	
SEER	5.71	6.86	6.36	6.60	6.11	6.11	5.61	5.61	
SCOP (Average climate)	4.00	4.20	4.13	4.40	4.16	4.16	4.00	4.00	
Pdesignc	kW	7.1	9.0	10.0	10.0	10.0	10.0	10.0	
Pdesignh (@-10°C)	kW	5.7	8.1	8.1	7.2	10.4	10.4	7.7	
Annual electricity consumption (cooling/heating)	kWh/a	436/1996	459/2703	551/2746	531/2289	574/3504	574/3504	624/2697	624/2697
Refrigerant (R410A)	GWP	2088							
	charge kg/TQ	1.6/3.341	2.1/4.385	2.55/5.324	2.55/5.324	4.5/9.396		3.8/7.934	
Designated heating season		Average							

Indoor unit	FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG	FDE100VG	FDE40VGx2	FDE50VGx2	FDE50VGx2	
Outdoor unit	SRC40ZSX-S	SRC50ZSX-S	SRC50ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	
Energy class (cooling/heating)	A+/A	A+/A	A+/A+	B/A+	A+/A+	A+/A+	A+/A+	A/A	A/A	
SEER	6.46	6.10	6.72	4.87	5.89	5.84	5.26	5.53	5.49	
SCOP (Average climate)	3.93	3.92	4.08	4.00	4.18	4.17	4.09	3.94	3.94	
Pdesignc	kW	4.0	5.0	5.6	7.1	10.0	7.1	10.0	10.0	
Pdesignh (@-10°C)	kW	3.0	3.8	4.3	6.0	11.2	11.2	6.0	10.8	
Annual electricity consumption (cooling/heating)	kWh/a	217/1069	288/1358	292/1475	511/2102	595/3754	599/3758	473/2054	634/3936	638/3840
Refrigerant (GWP)		2088								
		1.5/3.132		2.95/6.160	4.5/9.396		2.95/6.160	4.5/9.396		
Designated heating season		Average								

Indoor unit	FDE100VG	FDE100VG	FDE50VGx2	FDE50VGx2	FDE71VG	FDE100VG	FDE100VG	FDF71VD1	FDF100VD2	
Outdoor unit	FDC100VN	FDC100VS	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	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	5.43	5.39	5.16	5.13	6.35	6.63	6.73	4.80	5.20	
SCOP (Average climate)	3.91	3.90	3.81	3.80	4.22	4.25	4.44	3.81	3.80	
Pdesignc	kW	10.0	10.0	10.0	7.1	9.0	10.0	7.1	10.0	
Pdesignh (@-10°C)	kW	7.9	7.9	7.8	7.8	5.8	8.2	8.1	13.0	
Annual electricity consumption (cooling/heating)	kWh/a	645/2830	649/2833	679/2868	683/2872	392/1925	475/2704	521/2556	518/2464	673/4792
Refrigerant (R410A)	GWP	2088								
	charge kg/TQ	3.8/7.934			1.6/3.341	2.1/4.385	2.55/5.324	2.95/6.160	4.5/9.396	
Designated heating season		Average								

Indoor unit	FDF100VD2	FDF100VD2	FDF100VD2	FDF71VD1	FDF100VD2	FDF100VD2	
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	7.1	9.0	10.0	
Pdesignh (@-10°C)	kW	13.0	9.3	9.3	5.5	8.1	
Annual electricity consumption (cooling/heating)	kWh/a	678/4795	697/3423	701/3427	475/1972	555/2826	647/2875
Refrigerant (R410A)	GWP	2088					
	charge kg/TQ	4.5/9.396	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season		Average					

Before starting use

Heating performance

The heating performance values (kW) described in the catalogue are the values obtained by operating at an outdoor temperature of 7°C and indoor temperature of 20°C as set forth in the ISO Standards. As the heating performance decreases the outdoor temperature drops, if the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

Indication of sound values

The sound values are the values (A scale) measured in a chamber such as an anechoic chamber following the ISO Standards. In the actual installation state, the value is normally larger than the values given in the catalog due to the effect of surrounding noise and echo. Take this into consideration when installing.

Use in oil atmosphere

Avoid installing this unit in an atmosphere where oil scatters or builds up, such as in a kitchen or machine factory. If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

Use in acidic or alkaline atmosphere

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

Use in places with high ceilings

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

Refrigerant leakage

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

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

Use in snowy areas

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

•Snow prevention

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

•Snow piling

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

Automatic defrosting device

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

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

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

Servicing the air-conditioner

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

⚠ Safety Precautions

Air-conditioner usage target

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

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

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

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

Before use

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

Installation

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

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

Usage place

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

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



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