

# **FD**series

Inverter Packaged Air-Conditioners

High Performance  
Air-Conditioning

# 2019



CE

50/60Hz

19P01E







# 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 environments. The versatility of the PAC range, offers you a wide selection of models in function of your installation needs. The modern and attractive design of our indoor units is harmoniously integrated in the any atmosphere creating a pleasant and relaxing environment.

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# New Generation FDT



Automatic energy saving control

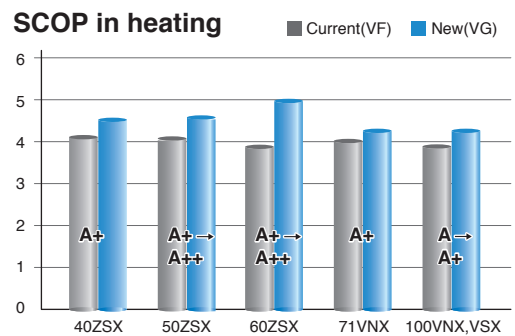
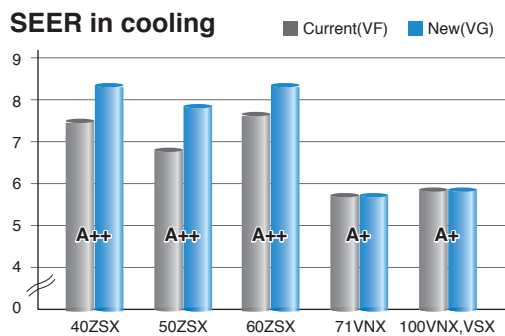
Keep maximum comfort with minimal draft

Quiet operation

## High energy efficiency with new technology

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

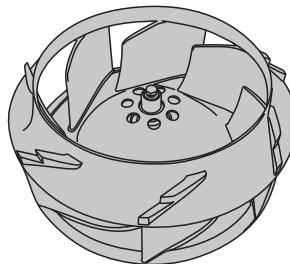
● SEER and SCOP is defined in European regulations. Please refer to P74.



## More quiet noise & Improve the aerodynamic performance of the unit

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.

New design turbo fan



Fan guard (standard equipment)



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



### Draft Prevention Panel (Option)

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



### Motion Sensor (Option)

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



# New Generation FDTC

More comfort and More energy saving

New European Design

Lower noise



## European design & Flat panel

### Thin Panel

FDTC thin panel fit within 10mm from the ceiling.

### Unique Grille Design

Honeycomb grille



### Compact Design

□700mm → □620mm

A weight of only 14kg. Height of thin panel and main body is only 248 mm allowing it to be a very easy installation.

### Big Louver

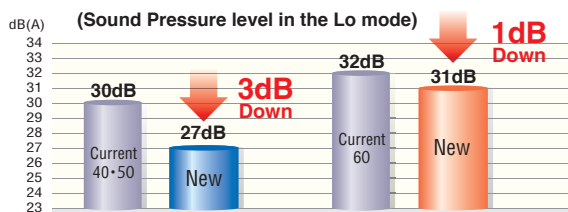
Improved directionally

### Integrated ceiling system design



## More quiet operation

Adopting new turbo fan and improving new heat exchanger enable to reduce noise.



## Draft Prevention Panel and Motion Sensor (option)



It is available to set draft prevention panel and motion sensor as well as FDT.





Ceiling cassette  
**FDT-VG** series



Ceiling cassette Compact  
**FDTC-VG** series

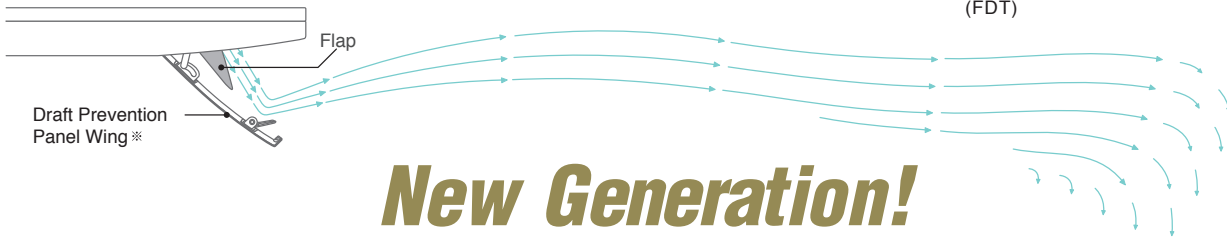
# Draft Prevention Panel

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

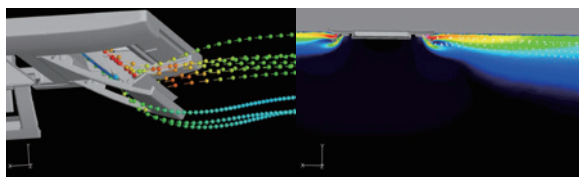
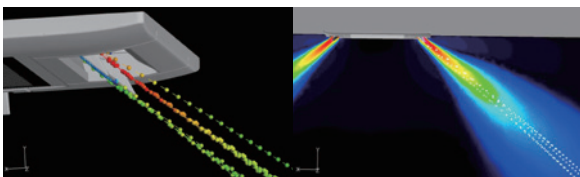
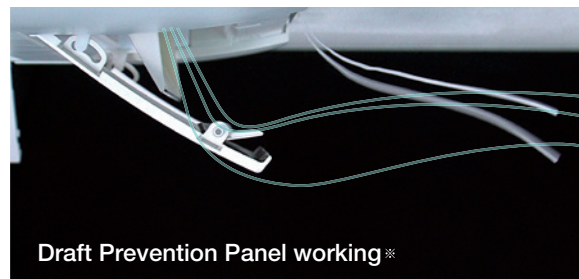
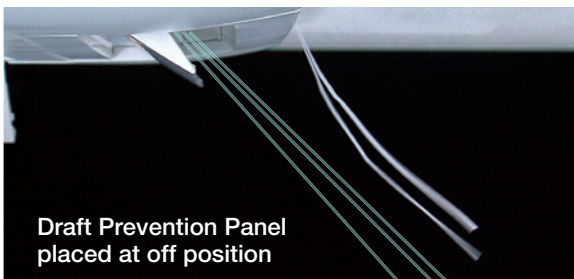
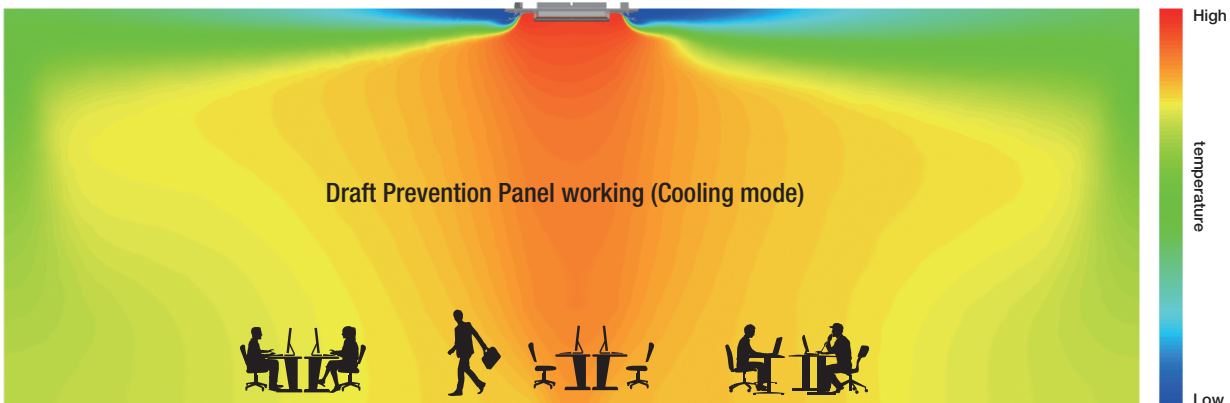


The Good Design Award is Japan's only comprehensive design evaluation and recommendation initiative, originating with the "Good Design Products Selection System" founded in 1957. It is now a global design award with participation from numerous Japanese and international companies and organizations. The "G Mark", the symbol of the Good Design Award, is known widely as a symbol of excellent design.  
(FDT)

## Draft Prevention Panel Operating Image



# New Generation!



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.

※ These are images of FDT. The panel structure of FDTC slightly differ from FDT.



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

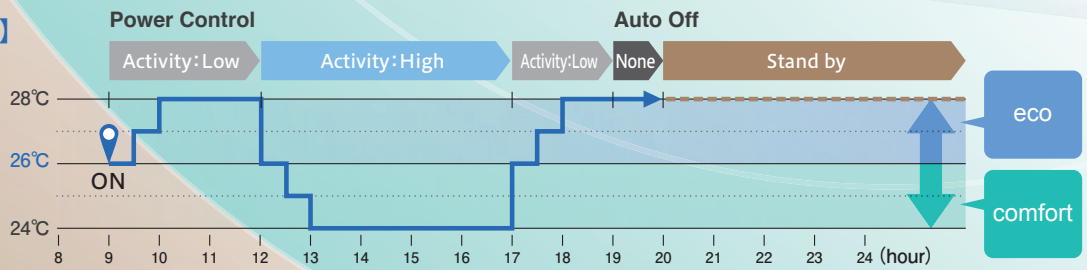
### Auto Off

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

[temperature]

26°C

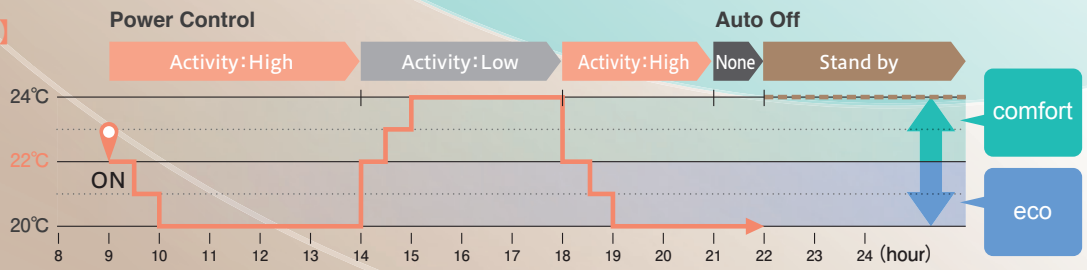
in cooling



[temperature]

22°C

in heating



<p><b>Power Control</b> Increased energy savings</p> <p>Low human activity</p>	<p><b>Power Control</b> Increased comfort</p> <p>High human activity</p>	<p><b>Stand by</b> Operation stops temporarily</p> <p>Absence for 1 hour</p>	<p><b>Auto off</b> Operation stops completely</p> <p>More 12 hours absence</p>
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### Operation mode and Control of Motion sensor

eco operation  
comfort operation

### Operation mode

	Human activity	Operation mode				
		Auto	Cool	Heat	Dry	Fan
Power Control ※1	Low	Cooling +2°C	+2°C	+2°C	—	—
		Heating +2°C	+2°C	+2°C	—	—
	High	Cooling -2°C	-2°C	-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

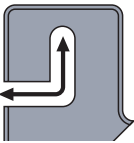
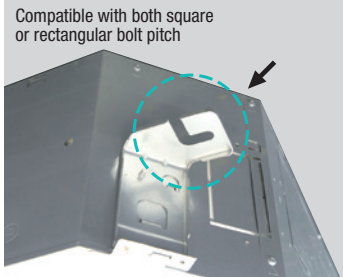
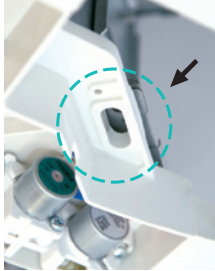
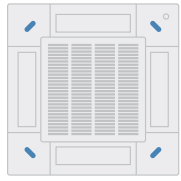
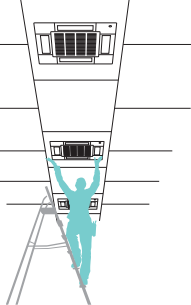
Easy and quick installation and maintenance

Builder Maintenance

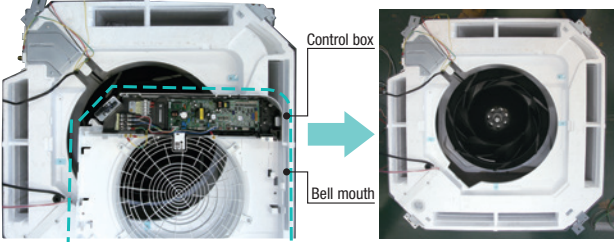
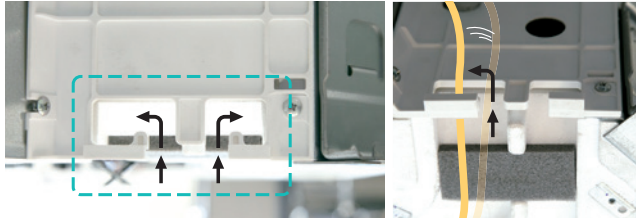


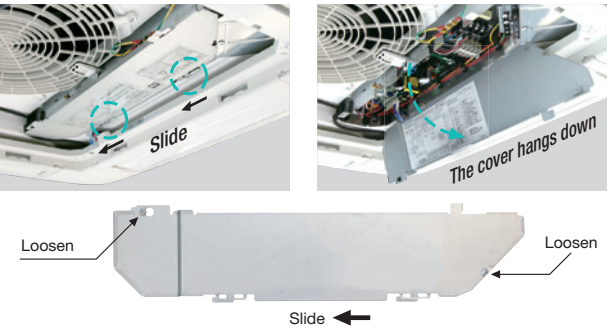
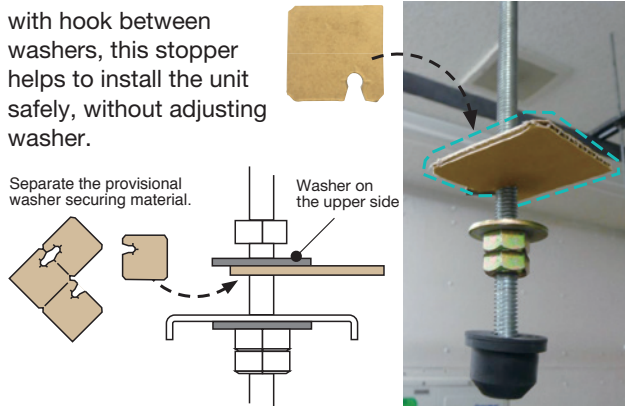
Quick positioning!

## Indoor unit is easily positioned and installed

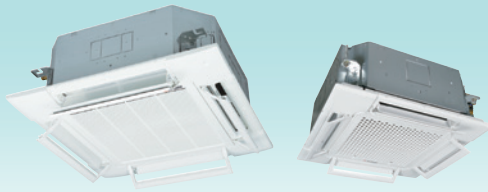
<p><b>1</b> Adjustable easier positioning of unit by new slits <span style="float: right;">FDT</span></p> <p>New shape of slit is suitable to install the unit with more flexibility, according to many kinds of suspending bolt pitch on site. Any rectangular or squared pitch of suspending bolts are available with this slit.</p>  	<p><b>2</b> New slit in panel allows easier installation on site. <span style="float: right;">FDT FDC</span></p> <p>Flexible positioning is available, which helps adjusting the direction of panel according to lines or pattern on the ceiling.</p>   
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## Quick installation and maintenance

<p><b>1</b> Easy access to component part for easy maintenance. <span style="float: right;">FDT</span></p> <p><b>1</b> The control box and bell mouth can be removed together. <b>2</b> Easy access to impeller and fan motor.</p> 	<p><b>2</b> New shape of path of wiring <span style="float: right;">FDT</span></p> <p>New shape of path gives easy wiring work for installation.</p> 
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<p><b>3</b> No need to remove screws to take off the controller cover. <span style="float: right;">FDT</span></p> <p>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.</p> 	<p><b>4</b> More safe installation by stopper of washer <span style="float: right;">FDT FDC</span></p> <p>When unit is installed with hook between washers, this stopper helps to install the unit safely, without adjusting washer.</p> 
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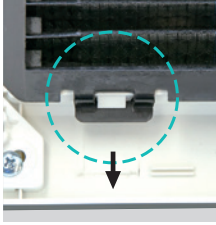
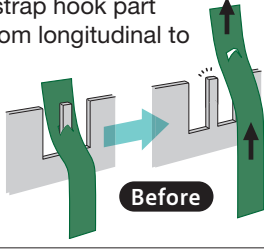
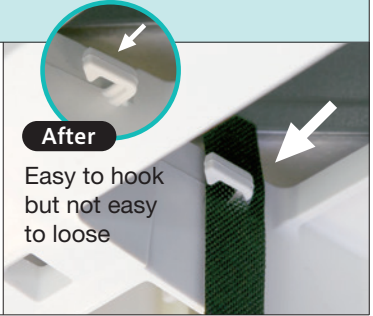
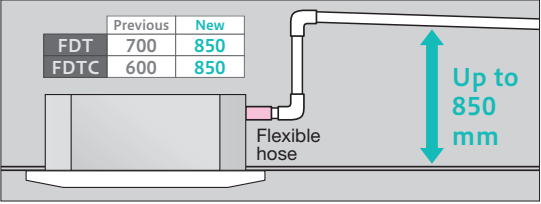
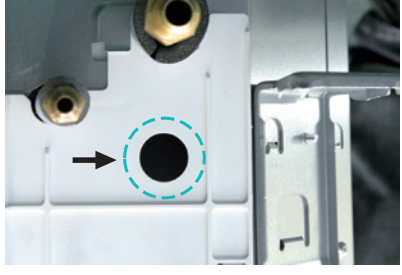
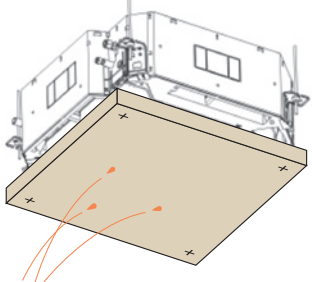

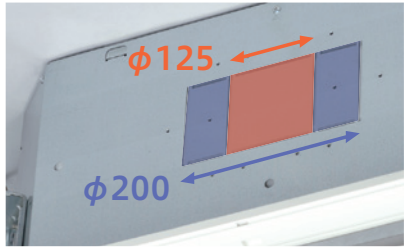

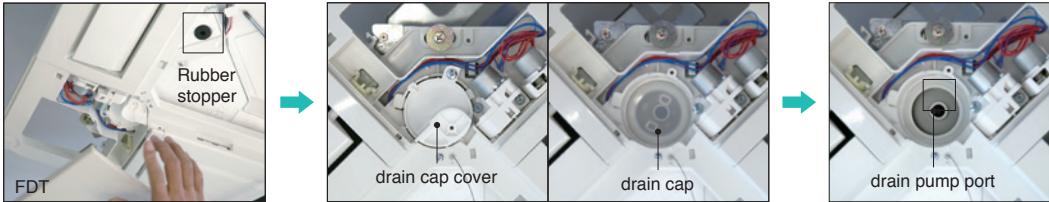


Builder Maintenance



For smooth and easy working

## Good help for installation and maintenance

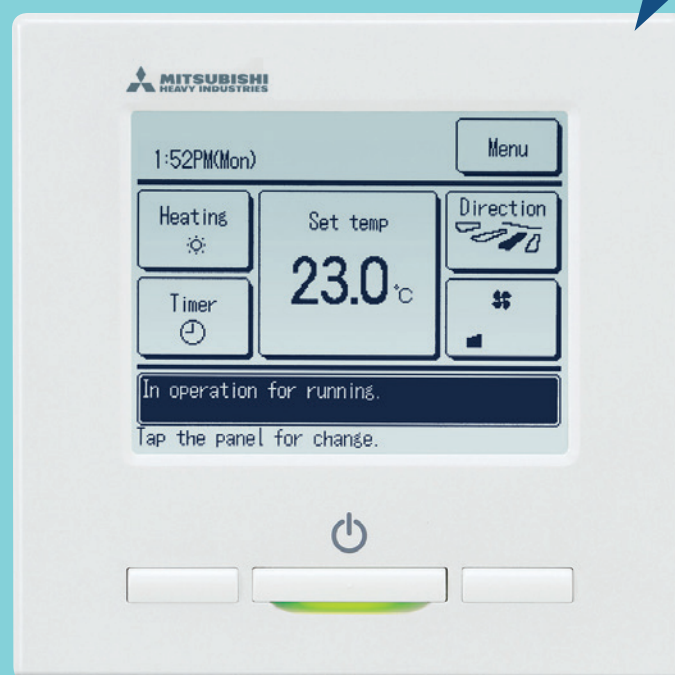
<p><b>1</b> Easy and flexible hook to remove the filter <span style="float: right;">FDT FDTC</span></p>	<p><b>2</b> Securely fix the corner lid by strap <span style="float: right;">FDT</span></p>									
<p>Hook of soft material helps to remove the filter without dust spreading.</p> <p>Press the filter tab to the outside and remove the filter.</p> 	<p>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.</p>   <p><b>After</b> Easy to hook but not easy to loose</p>									
<p><b>3</b> Drain-up-lift increases up to 850 mm <span style="float: right;">FDT FDTC</span></p>	<p><b>4</b> New port to check drain water flow <span style="float: right;">FDT</span></p>									
<p>The drain can be lifted up to 850 mm from the ceiling surface.</p> <table border="1" data-bbox="172 965 419 1043"> <thead> <tr> <th></th> <th>Previous</th> <th>New</th> </tr> </thead> <tbody> <tr> <td>FDT</td> <td>700</td> <td>850</td> </tr> <tr> <td>FDTC</td> <td>600</td> <td>850</td> </tr> </tbody> </table>  <p>Up to 850 mm</p> <p>Flexible hose</p>		Previous	New	FDT	700	850	FDTC	600	850	<p>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.)</p> 
	Previous	New								
FDT	700	850								
FDTC	600	850								
<p><b>5</b> Re-use of packages during construction work <span style="float: right;">FDT FDTC</span></p>	<p><b>6</b> More flexible outlet for ducting <span style="float: right;">FDT FDTC</span></p>									
<p>Package material (carton) help to protect the unit from unexpected welding spatter or coming dust to the new unit.</p> 	<p>Both <math>\phi 125</math> and <math>\phi 200</math> (oval shaped) are available.</p>  									
<p><b>7</b> Easy check of drain pan <span style="float: right;">FDT FDTC</span></p>										
<p>Easy check of drain pan condition is available by removing corner lid only.</p>  <p>FDT FDTC</p>	 <p>Rubber stopper</p> <p>drain cap cover</p> <p>drain cap</p> <p>drain pump port</p> <p>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.</p> <p>Clean up the area around the drain pump port.</p>									



## *Simple use with advanced settings **REMOTE CONTROL***

Easy touch and Easy view with full dot Liquid Crystal display

**Add new function**



**RC-EX3A**

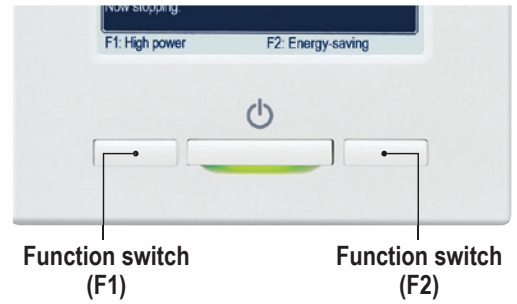


# Functions

## 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.



### 15 min 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.

### Now 6 Filter Sign

Announces the due time for cleaning the air filter.

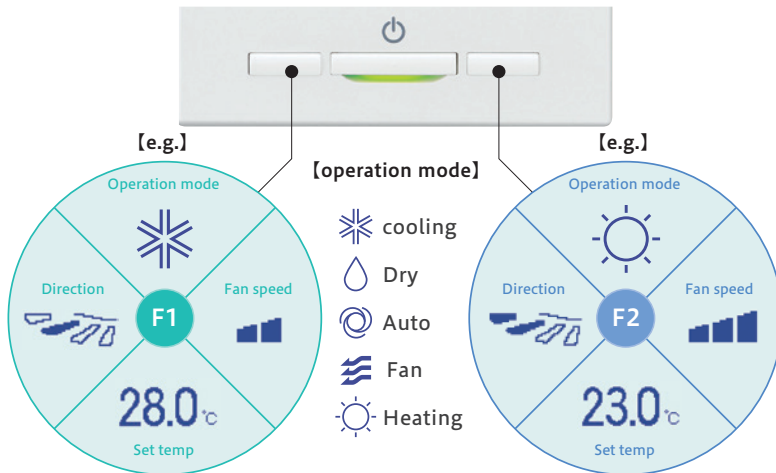
**NEW**

### 7 Anti draft ON/OFF

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

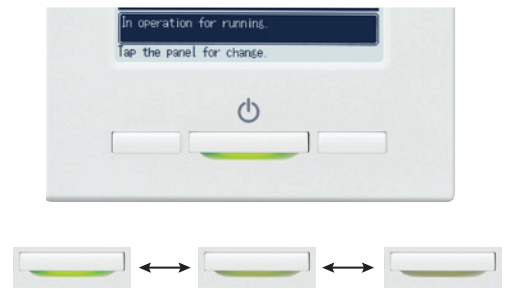
## Favorite Mode

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



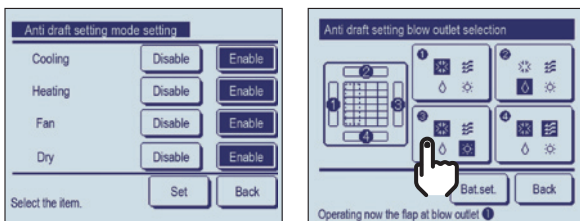
## Adjusting Brightness of the Operation lamp

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



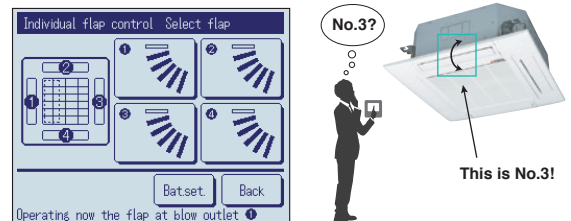
## Draft prevention setting (only FDT-FDTC series)

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



## Easy modification of Air Flow

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



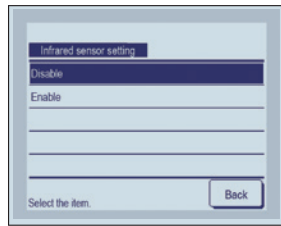
## Motion sensor control

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



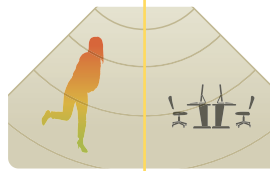
Enable / Disable



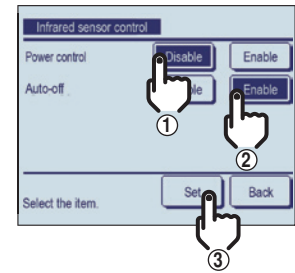
Select [Enable] / [Disable] for the motion sensor of the indoor unit connected to the R/C.

- 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable / Disable

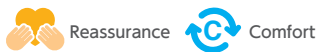


## Backup Control

Control restricted to two indoor units (two groups)

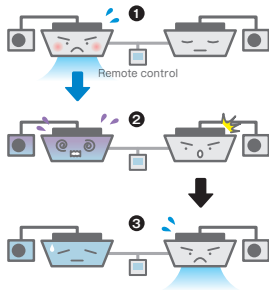


### Fault backup control



#### 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.

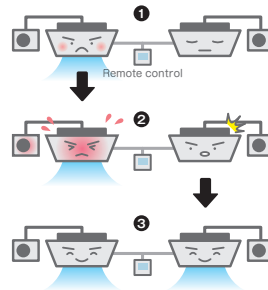


### Capacity backup control



#### Maintains users' comfort!

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

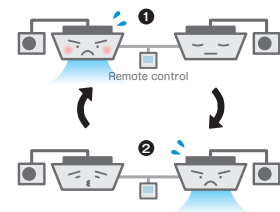


### Rotational operation control



#### 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

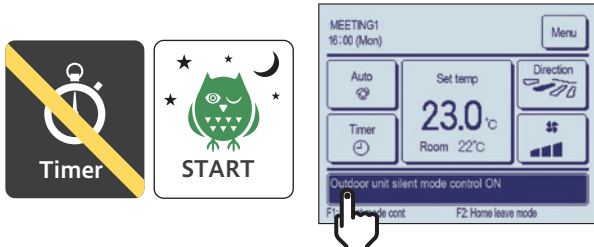
### External Output

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



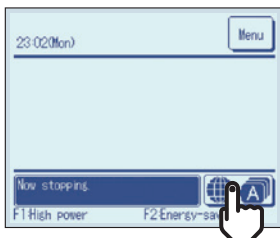
## Silent mode control

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.



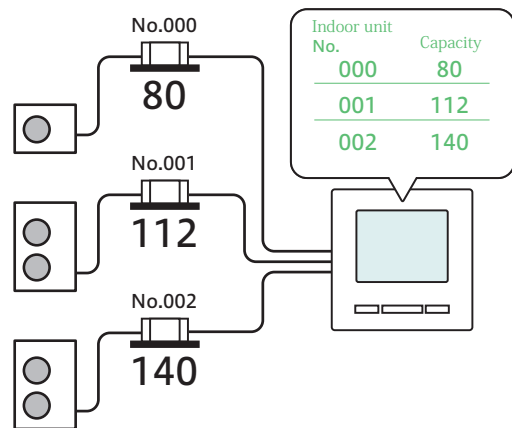
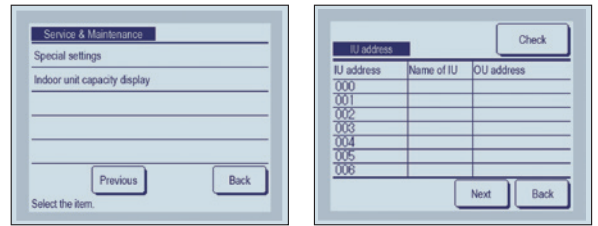
## Language Switching

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



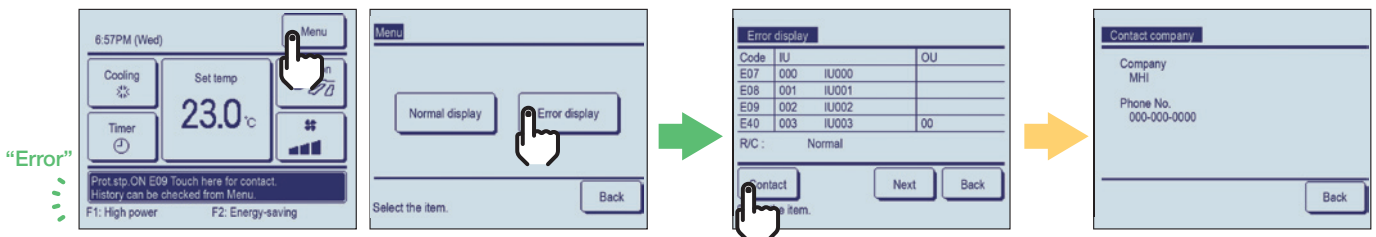
## Indoor unit capacity display

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



## Contact company & Error display

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



## Wireless Kit & Wireless Remote Controller

### Line-up

Model	Wireless kit
FDT	RCN-T-5AW-E2
FDTC	RCN-TC-5AW-E2
FDE	RCN-E-E3
FDU	RCN-KIT4-E2
FDUM	
FDF	

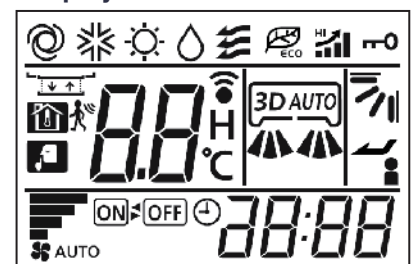
### Function added

- 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 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  $-20^{\circ}\text{C}$  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	●	●	●	●	-	●	●	●	-	-



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



**FDC71VNX (3.0HP)**

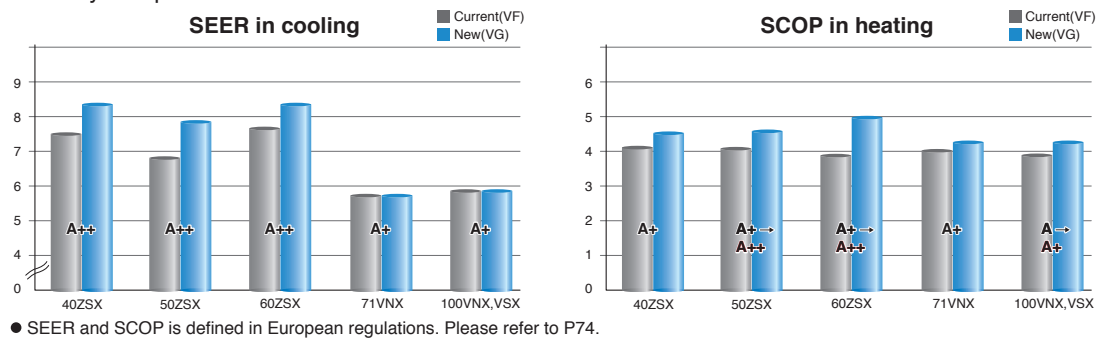


**FDC100VNX/VSX (4.0HP)**  
**FDC125VNX/VSX (5.0HP)**  
**FDC140VNX/VSX (6.0HP)**



## High efficiency (comparison of FDT series)

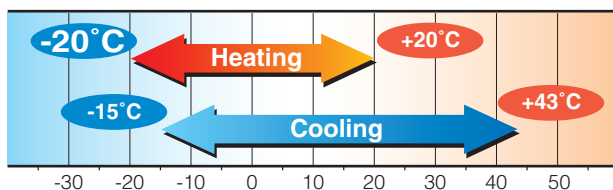
Hyper inverter outdoor units high efficiency levels are achieved by our latest technologies, such as high efficient twin rotary compressors.



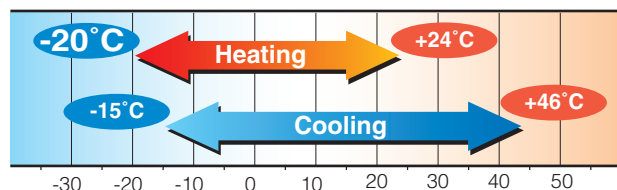
## Wide Range of Operation

Our new advanced technology has expanded the heating and cooling operation range. This permits installation of the units considering a heating and cooling operation under a low temperature condition down to  $-20^{\circ}\text{C}$ .

### FDC71/100/125/140



### SRC40/50/60



### Max. heating capacity (kW)

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

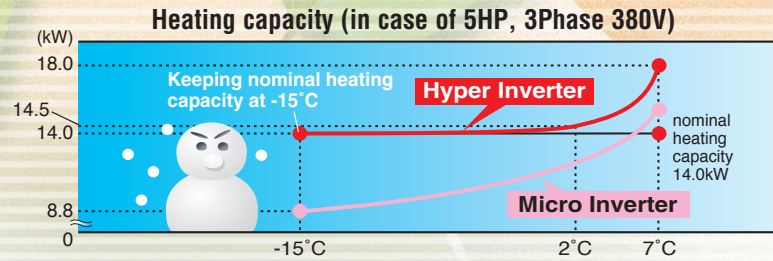


## Leading powerful heating capacity in the industry

Thanks to optimization of refrigeration control with use of electric expansion valve and development of twin rotary compressors, max heating capacity has been increased.

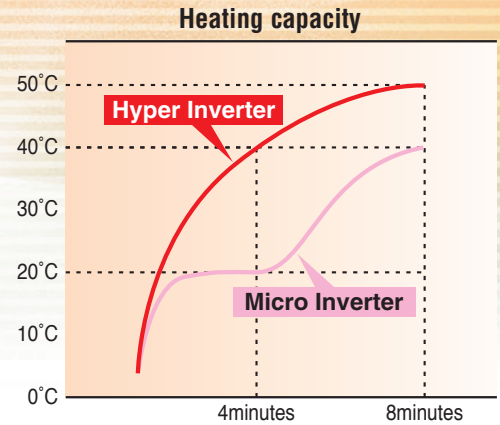
Hyper Inverter series can reach the set temperature very quickly, keeping nominal heating capacity when outdoor temperature is  $-15^{\circ}\text{C}$ . It is effective to be used even in cold area.

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



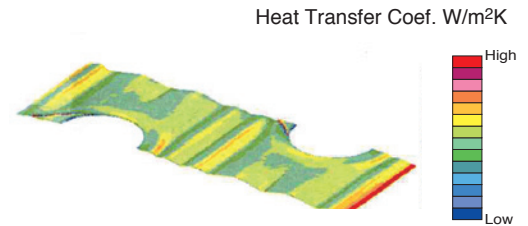
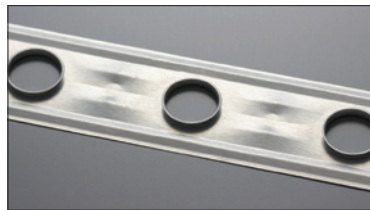
model name	nominal heating capacity (kW at outdoor temperature of $7^{\circ}\text{C}$ )	heating capacity at outdoor temperature of $-15^{\circ}\text{C}$
FDC100VSX(4HP, 3Phase 380V)	11.2kW	11.2kW
FDC125VSX(5HP, 3Phase 380V)	14.0kW	14.0kW
FDC140VSX(6HP, 3Phase 380V)	16.0kW	16.0kW

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



## 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.

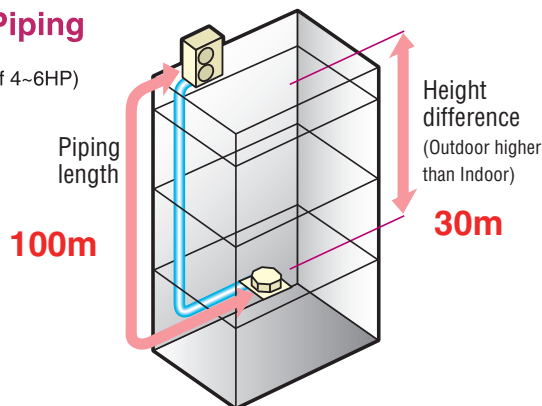


## Installation workability

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

### Long Piping

(in case of 4~6HP)



### Refrigerant precharged piping length extending to 30m

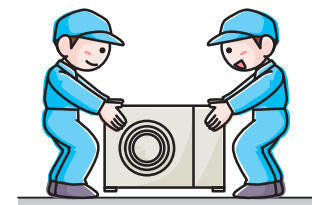
Refrigerant precharged piping length extends up to 30m. This eliminates the need to add refrigerant on site, which sets it free from trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly.

\* Hyper inverter 1.5~2.5HP is up to 15m.

### Easy Transportation & Installation

Fits into elevators

Easy installation



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

# Micro Inverter

## Line up

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



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

Employment of DC twin rotary compressor has enabled to utilize a high-speed range of up to 120 rps at the maximum to secure the required capacity. Optimum compressor control has been realized by employing the vector control\* and the starting current has been improved significantly compared with former models. Moreover, vibration has been reduced.

**Former compressor**  
Height at 440 mm  
Outside diameter of shell ø185mm

**DC twin rotary compressor**  
Height at 342mm  
ø133mm

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

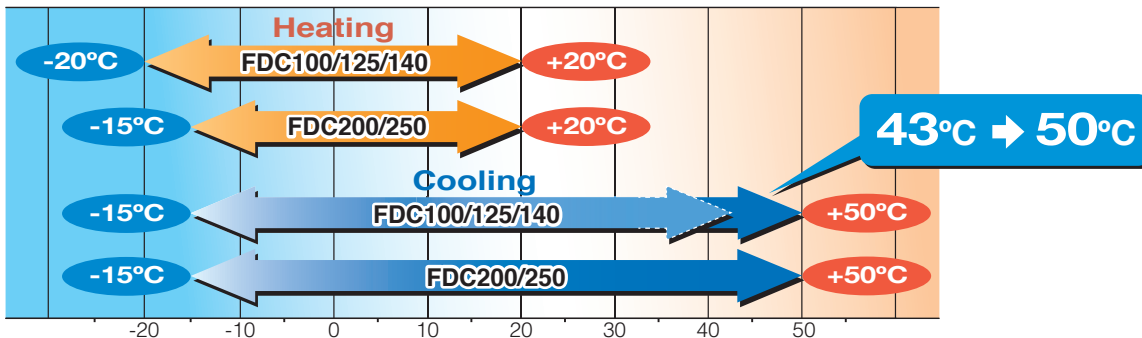
\* Vector control means a technique to realize an optimum control by converting the current wave to a smooth sinusoidal waveform

### Better partial load efficiency

**Distributed winding motor** → **Centralized winding motor**

## Wide range of operation

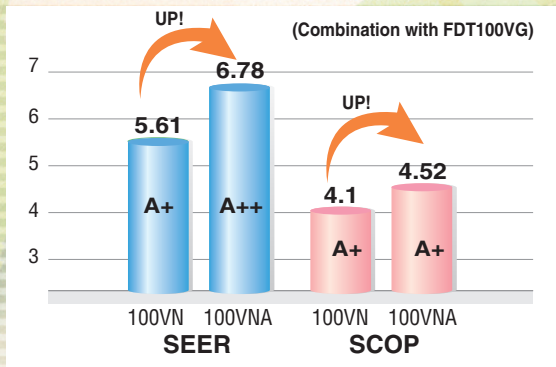
Our new advanced technology has expanded the heating and cooling operation range. This permits installation of the units under a low outdoor temperature conditions down to -15°C/-20°C in heating operation and -15°C in cooling operation.





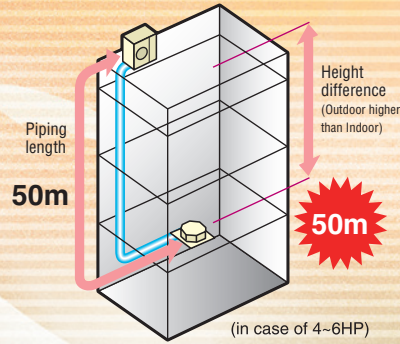
## Higher seasonal efficiency

Seasonal efficiency is improved by use of centralized winding motor.



\* Please refer to P74

## Long Piping Length



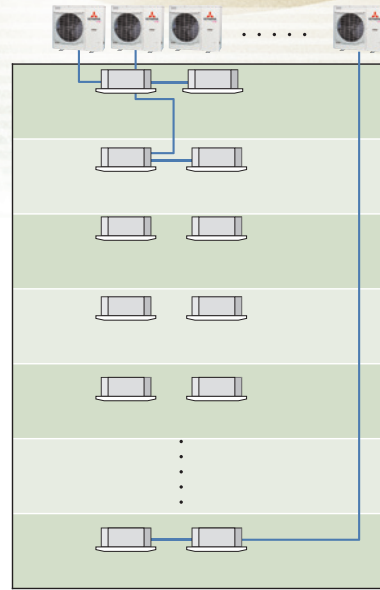
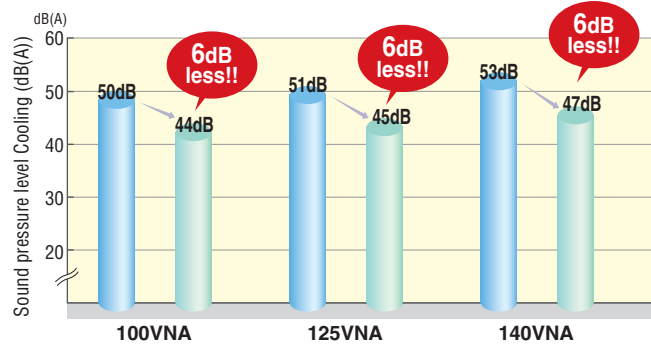
The industry's first!

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

\*When the outdoor unit is installed at a position higher than the indoor unit by 30m or more, set SW5-2 on the control PCB to ON.

## Silent mode

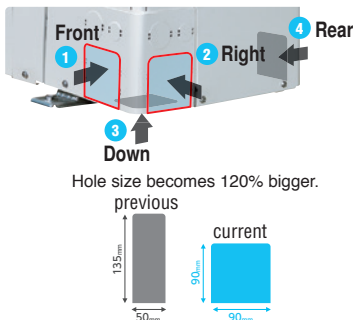
More quiet "silent mode" is possible.



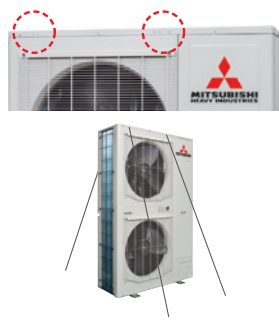
Wider variation of installation!

## Serviceability (Micro Inverter 10HP)

### ● Improved freedom of piping layout



### ● Wire insertion holes for fall prevention

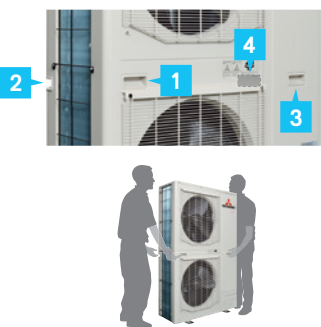


### ● 2 Layer Construction

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



### ● Four handles



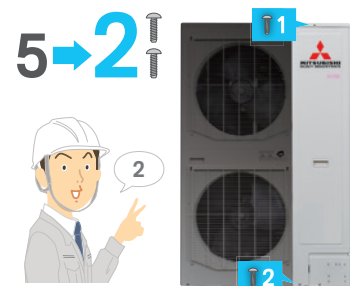
Located at the same level for easy transport and transfer.

### ● A transparent rain cover



Attached as a standard for easy maintenance.

### ● Fixing screws to service panel



# Standard Inverter

## Line up

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



FDC71VNP (3.0HP)



FDC90VNP1 (3.5HP)

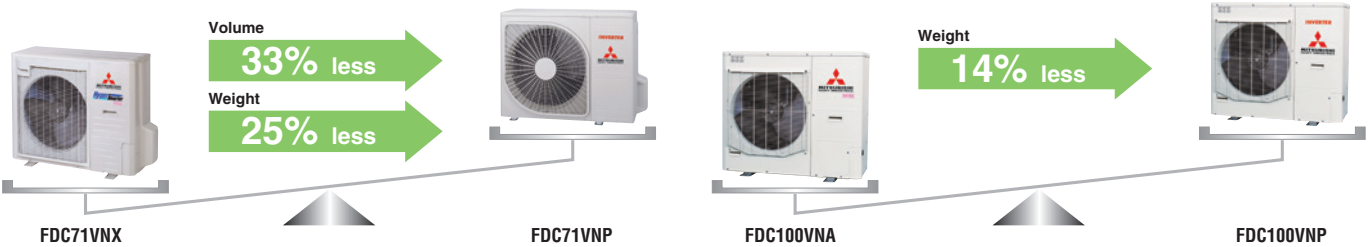


FDC100VNP (4.0HP)

Blue Fin

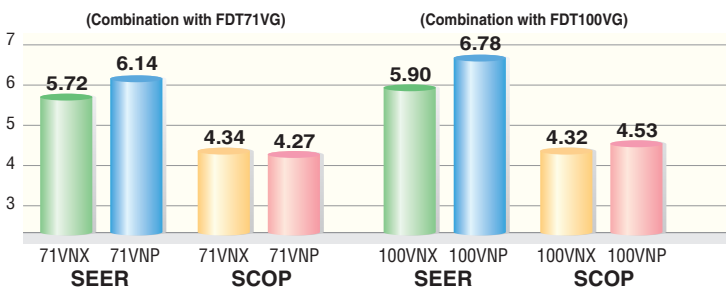
Blue Fin

## Compact Design of outdoor units



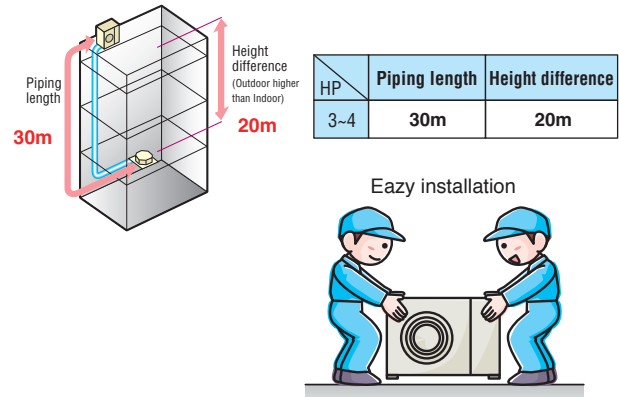
## High SEER & SCOP

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



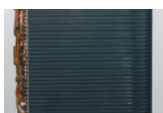
※ Please refer to P74

## Installation workability



### Point 1 Blue Fin

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.

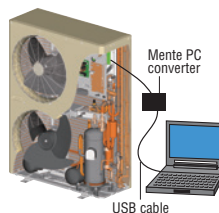


Blue Fin

Hyper Inverter 3~6HP  
Micro Inverter 4~10HP  
Standard Inverter 3.5, 4HP

### Point 2 Monitoring Function (All series)

To your PC monitoring and service tasks made simple with our service software ("Mente PC").



### Point 3 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  
FDC100~140VNA, VSA  
FDC200/250VSA  
FDC100VNP



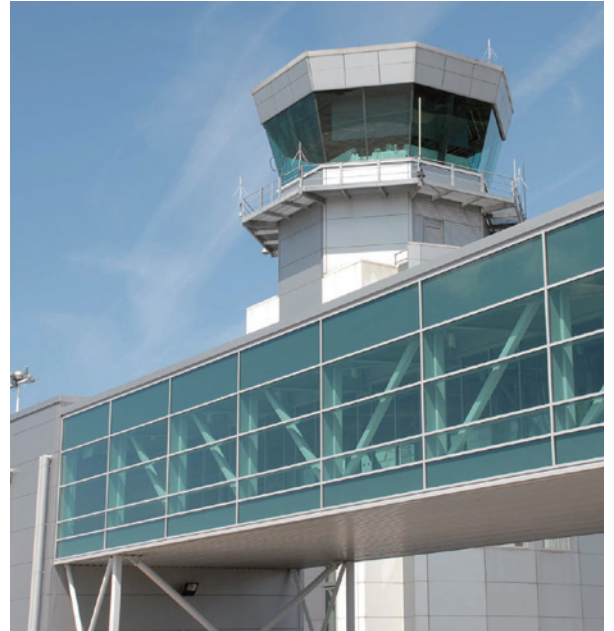


## Case study: Commercial

### MHI aircon system recovers waste energy at Bristol Airport



A 375kW air conditioning installation from Mitsubishi Heavy Industries Thermal Systems has just checked in at Bristol Airport. Twenty multi-split systems from MHI's FD Micro Inverter range and 33 SAF fresh air heat exchange units service a hub of pre-boarding and arrivals areas plus a new two-storey walkway connection to the terminal building. MHI's FD Split and Multi Split Systems feature a cutting edge inverter controlled compressor that adjusts automatically to meet the precise demands of the indoor unit to save energy and reduce temperature fluctuations.



### MHI aircon system offers bowling centres energy savings of up to 38%










High efficiency climate control from Mitsubishi Heavy Industries Thermal Systems has scored a strike at The Original Bowling Company, the UK's number one ten pin bowling operator. Outdated heating and cooling plant has been replaced with Mitsubishi Heavy Industries Thermal Systems heat pump systems at four Hollywood Bowl and AMF Bowling Centres so far, with further sites to follow in an ongoing refurbishment programme. The new systems employ MHI's inverter technology offering variable capacity control for consistent temperatures and energy savings of up to 38%.



# 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	<b>4way</b> <b>FDT</b> 	<b>P.26</b> Set 1Phase 3Phase	FDT40ZSXVG	FDT50ZSXVG	FDT60ZSXVG	FDT71VNXVG	FDT100VNXVG
							FDT100VSXVG
		Indoor unit	FDT40VG	FDT50VG	FDT60VG	FDT71VG	FDT100VG
	Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
		3Phase					FDC100VSX
	<b>4way compact</b> <b>FDTC</b> 	<b>P.34</b> Set 1Phase	FDTC40ZSXVG	FDTC50ZSXVG	FDTC60ZSXVG		
Indoor unit			FDTC40VG	FDTC50VG	FDTC60VG		
Outdoor unit		1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S		
		3Phase					
DUCT CONNECTED	<b>High Static pressure</b> <b>FDU</b> 	<b>P.38</b> Set 1Phase 3Phase				FDU71VNXVF1	FDU100VNXVF2
							FDU100VSXVF2
		Indoor unit				FDU71VF1	FDU100VF2
	Outdoor unit	1Phase				FDC71VNX	FDC100VNX
		3Phase					FDC100VSX
	<b>Low/Middle Static pressure</b> <b>FDUM</b> 	<b>P.43</b> Set 1Phase 3Phase	FDUM40ZSXVF	FDUM50ZSXVF	FDUM60ZSXVF	FDUM71VNXVF1	FDUM100VNXVF2
Indoor unit			FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2
Outdoor unit		1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
		3Phase					FDC100VSX
WALL MOUNTED	<b>SRK</b> 	<b>P.50</b> Set 1Phase 3Phase					
			Indoor unit				
		Outdoor unit	1Phase				
	3Phase						
CEILING SUSPENDED	<b>FDE</b> 	<b>P.54</b> Set 1Phase 3Phase	FDE40ZSXVG	FDE50ZSXVG	FDE60ZSXVG	FDE71VNXVG	FDE100VNXVG
							FDE100VSXVG
		Indoor unit	FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG
	Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
3Phase						FDC100VSX	
FLOOR STANDING	<b>FDF</b> 	<b>P.62</b> Set 1Phase 3Phase				FDF71VNXVD1	FDF100VNXVD2
							FDF100VSXVD2
		Indoor unit				FDF71VD1	FDF100VD2
	Outdoor unit	1Phase				FDC71VNX	FDC100VNX
3Phase						FDC100VSX	



**Capacity Range (Nominal Cooling Capacity)**

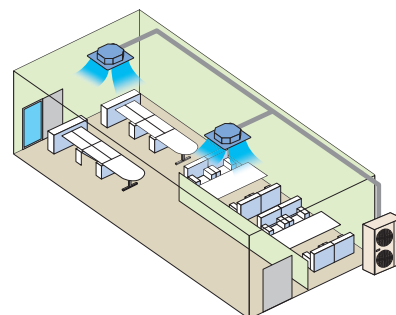
		<i>Micro Inverter</i>					<i>Standard Inverter</i>		
5.0	6.0	4.0	5.0	6.0	8.0	10.0	3.0	3.5	4.0
12.5	14.0	10.0	12.5	14.0	20.0	24.0	7.1	9.0	10.0
42,700	47,800	34,100	42,700	47,800	68,200	81,300	24,200	30,700	34,100
10,750	12,040	8,600	10,750	12,040	17,200	20,640	6,100	7,740	8,600
<b>FDT125VNXVG</b>	<b>FDT140VNXVG</b>	<b>FDT100VNAV</b>	<b>FDT125VNAV</b>	<b>FDT140VNAV</b>			<b>FDT71VNPVG</b>	<b>FDT90VNP1VG</b>	<b>FDT100VNP1VG</b>
<b>FDT125VSXVG</b>	<b>FDT140VSXVG</b>	<b>FDT100VSAVG</b>	<b>FDT125VSAVG</b>	<b>FDT140VSAVG</b>					
FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG			FDT71VG	FDT100VG	FDT100VG
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
<b>FDU125VNXVF</b>	<b>FDU140VNXVF</b>	<b>FDU100VNAV2</b>	<b>FDU125VNAV</b>	<b>FDU140VNAV</b>			<b>FDU71VNPVF1</b>	<b>FDU90VNP1VF2</b>	<b>FDU100VNP1VF2</b>
<b>FDU125VSXVF</b>	<b>FDU140VSXVF</b>	<b>FDU100VSAVF2</b>	<b>FDU125VSAVF</b>	<b>FDU140VSAVF</b>	<b>FDU200VSAVG</b>	<b>FDU250VSAVG</b>			
FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF	FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA			
<b>FDUM125VNXVF</b>	<b>FDUM140VNXVF</b>	<b>FDUM100VNAV2</b>	<b>FDUM125VNAV</b>	<b>FDUM140VNAV</b>			<b>FDUM71VNPVF1</b>	<b>FDUM90VNP1VF2</b>	<b>FDUM100VNP1VF2</b>
<b>FDUM125VSXVF</b>	<b>FDUM140VSXVF</b>	<b>FDUM100VSAVF2</b>	<b>FDUM125VSAVF</b>	<b>FDUM140VSAVF</b>					
FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF			FDUM71VF1	FDUM100VF2	FDUM100VF2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
		<b>SRK100VNAZR</b>							<b>SRK100VNP1ZR</b>
		<b>SRK100VSAZR</b>							
		SRK100ZR-S							SRK100ZR-S
		FDC100VNA							FDC100VNP
		FDC100VSA							
<b>FDE125VNXVG</b>	<b>FDE140VNXVG</b>	<b>FDE100VNAV</b>	<b>FDE125VNAV</b>	<b>FDE140VNAV</b>			<b>FDE71VNPVG</b>	<b>FDE90VNP1VG</b>	<b>FDE100VNP1VG</b>
<b>FDE125VSXVG</b>	<b>FDE140VSXVG</b>	<b>FDE100VSAVG</b>	<b>FDE125VSAVG</b>	<b>FDE140VSAVG</b>					
FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG			FDE71VG	FDE100VG	FDE100VG
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
<b>PDF125VNXVD</b>	<b>PDF140VNXVD</b>	<b>PDF100VNAV2</b>	<b>PDF125VNAV</b>	<b>PDF140VNAV</b>			<b>PDF71VNPVD1</b>	<b>PDF90VNP1VD2</b>	<b>PDF100VNP1VD2</b>
<b>PDF125VSXVD</b>	<b>PDF140VSXVD</b>	<b>PDF100VSAVD2</b>	<b>PDF125VSAVD</b>	<b>PDF140VSAVD</b>					
PDF125VD	PDF140VD	PDF100VD2	PDF125VD	PDF140VD			PDF71VD1	PDF100VD2	PDF100VD2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					

# PRODUCT LINE UP










## 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.

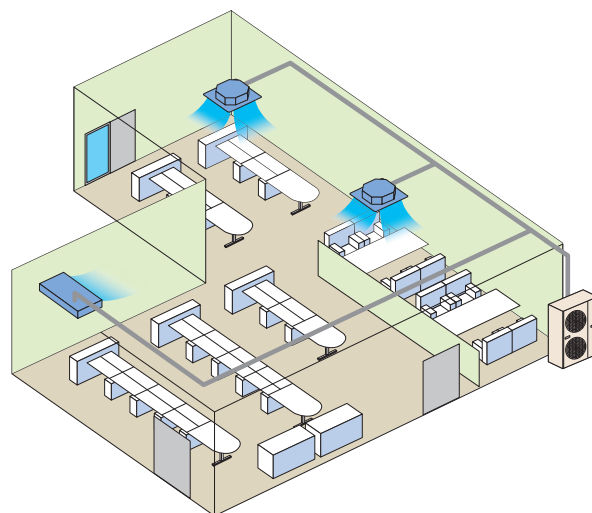


#### Combination of indoor units










Outdoor Unit	Hyper Inverter				Micro Inverter				
									
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VNA FDC100VSA	FDC125VNA FDC125VSA	FDC140VNA FDC140VSA	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

### 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.



#### Combination of indoor units

Outdoor Unit	Hyper Inverter				Micro Inverter				
									
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VNA FDC100VSA	FDC125VNA FDC125VSA	FDC140VNA FDC140VSA	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



## Applicable indoor units

Model		Capacity					
		40	50	60	71	100	125
<b>Twin</b> <b>Triple</b> <b>Double Twin</b> <b>Multi</b> <b>System</b>	4way <b>FDT</b>	●	●	●	●	●	●
	4way compact <b>FDTc</b>	●	●	●			
	Low/Middle Static pressure <b>FDUM</b>	●	●	●	●	●	●
	Wall Mounted <b>SRK</b>		● *	● *		●	
	Ceiling Suspended <b>FDE</b>	●	●	●	●	●	●
	Floor Standing <b>FDF</b>				●	●	●
<b>V Multi</b> <b>System</b>	4way <b>FDT</b>	●	●	●	●	●	●
	Ceiling Suspended <b>FDE</b>	●	●	●	●	●	●

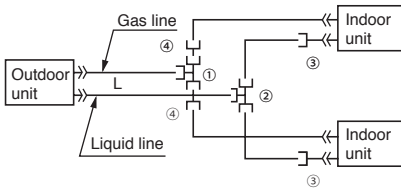
\* Hyper inverter combination only

## Decision of piping specification

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

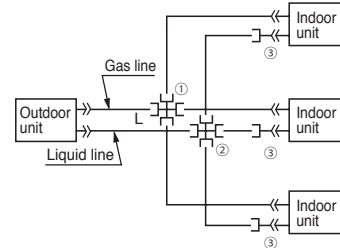
### Twin type

Models **FDC71, FDC100~140, FDC200, FDC250**  
 [Branch pipe set : DIS-WA1G, DIS-WB1G]



### Triple type

Model **FDC140, FDC200**  
 [Branch pipe set : DIS-TA1G, DIS-TB1G]



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

#### Chart of shapes of branch piping parts

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

Branching pipe set type	Outdoor unit	Indoor unit combinations	Symbol		
			Branching pipe set for a gas pipe	Branching pipe set for a liquid pipe	Different diameter pipe joint
DIS-WA1G (Two-way branching set)	FDC71	40+40	① ID15.88	② ID9.52	③ Joint A ID9.52 2 pieces Flare Joint (for indoor unit side connection)
	FDC100	50+50	① ID15.88 ID15.88 1 piece	② ID9.52 ID9.52 1 piece	④ Joint B OD15.88 2 pieces ID12.7
	FDC125	60+60 50+71			
	FDC140	71+71			
DIS-WB1G (Two-way branching set)	FDC200	100+100	① ID15.88	② ID9.52	④ Joint C OD12.7 1 piece ID9.52
		71+125	① ID25.4 ID15.88 1 piece	② ID12.7 ID9.52 1 piece	
	FDC250	125+125			
DIS-TA1G (Three-way branching set)	FDC140	50+50+50	① ID12.7 ID15.88 1 piece	② ID9.52 ID9.52 1 piece	③ Joint A ID9.52 3 pieces Flare Joint (for indoor unit side connection)
DIS-TB1G (Three-way branching set)	FDC200	71+71+71	① ID15.88 ID25.4 1 piece	② ID9.52 ID9.52 1 piece	③ Joint A ID9.52 2 pieces Flare joint (for indoor unit side connection) Joint B 1 piece ID15.88 Joint D 1 piece ID12.7 OD9.52

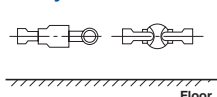
#### Notes

- (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  $\varnothing 9.52\text{mm}$  to  $\varnothing 6.35\text{mm}$  at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size  $\varnothing 9.52\text{mm}$  from branch to indoor unit.
- (2) The reducer ④ is for FDC71 and 100 models only.

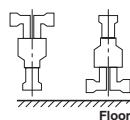
ID stands for inner diameter and OD, outer diameter.

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

#### 2-Way Branch

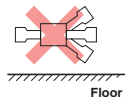
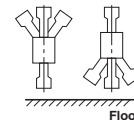
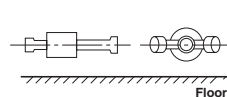


Mount — sections level with the floor.




Mount — sections perpendicular to the floor.

#### 3-Way Branch



# BENEFITS SUMMARY

## Indoor units

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

Economy	<b>Inverter technology</b> 	Inverter control technology functions at high efficiency with smooth operation from high speed to low speed. A smooth sine voltage wave is attained.
	<b>Energy-saving</b> *	 Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.
	<b>Home Leave Operation</b> 	This function ensures that when the room is unoccupied for long periods of time, the unit will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures.
	<b>Set Temperature Auto Return</b> *	 This function allows you to program a preferred set temperature that the unit will return to each time it is operated.
Comfort	<b>Automatic Operation</b> 	This function automatically selects the required heating or cooling function based on the current room conditions.
	<b>Silent Operation</b> 	This function allows you to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.
	<b>Motion sensor</b> *	 This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.
	<b>Hi Power Operation</b> 	Use the high power function to quickly reach your optimum temperature level when you first turn on the unit. This function will operate for a maximum of 15 minutes before returning to normal operation.
Air flow	<b>Flap Control System</b> 	This function allows you to set the upper and lower limit positions of the flap at each air outlet individually, providing you with complete control over interior air flow.
	<b>Vertical Auto Swing</b> 	The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to your preferred operation angle.
	<b>Draft prevention setting</b> *	 Draft Prevention setting provides a comfortable air flow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.
	<b>Automatic Fan Speed</b> 	The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.
Timer	<b>Sleep Timer</b> 	This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate for before switching off.
	<b>Peak-Cut Timer</b> *	 This function lets you to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.
	<b>Weekly Timer</b> 	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.
Convenient	<b>Function Switch</b> *	 From the seven available functions on the unit, this function allows you to set two functions to operate automatically.
	<b>Favorite setting</b> *	 Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	<b>Select the language</b> *	 Set the language to be displayed on the remote control.
	<b>Air Filter</b> 	The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air function.
	<b>Filter Sign</b> 	This warning alerts you to when the filter needs to be cleaned.
	<b>Outside Air Intake</b> 	This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.
Others	<b>Self Diagnostics</b> 	The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables your authorised dealer to isolate and repair any issues.
	<b>Built in Drain Pump</b> 	The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.
	<b>Improved Serviceability</b> 	The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.





# CEILING CASSETTE -4way- FDT



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



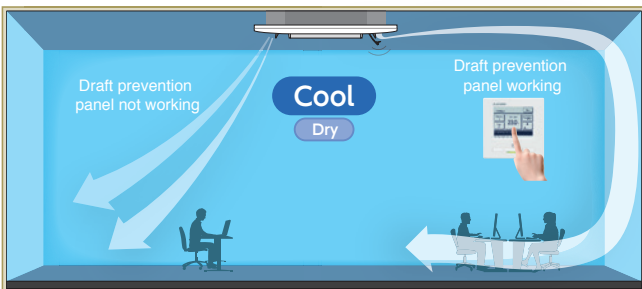
Draft Prevention Panel (Option)



\*Not all functions available with all remote control options.

## Point 1 Draft Prevention Panel (Option)

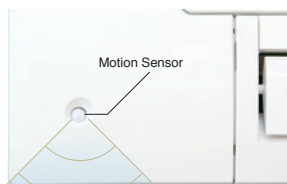
Draft Prevention Panel prevents cold/hot draft being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



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

## Point 2 Motion Sensor (Option)

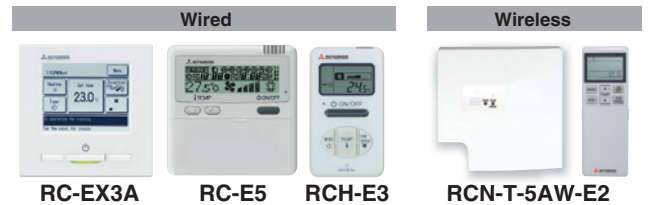
Motion sensor is equipped in the panel corner and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-T-5W-E

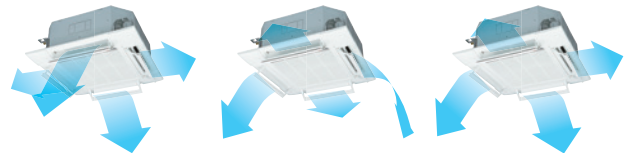


## Remote control (option)

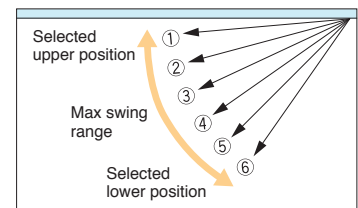


## Point 3 Individual flap control system

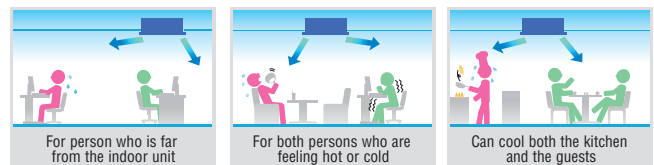
According to room conditions, four directions of air flow can be controlled individually by utilizing the flap control system. Individual flap control is available even after installation.



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



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

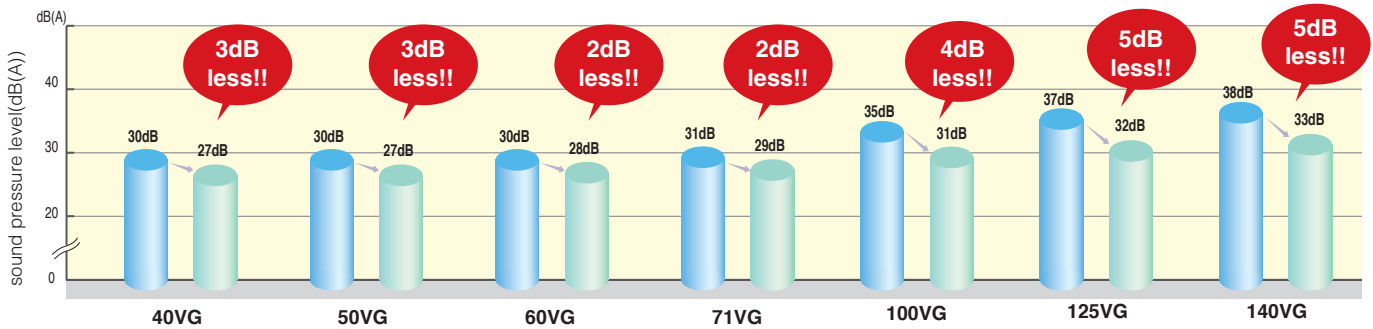




## Point 4 More quiet noise

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

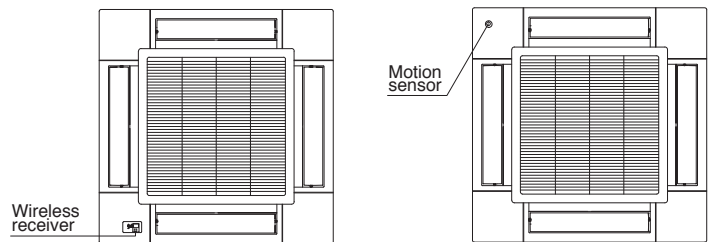
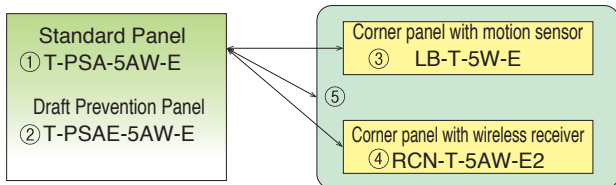
(Comparison of current model)



## Point 5 Panel select pattern (Option)

8 patterns of panel are available.

Installation position of Wireless kit and Motion sensor kit

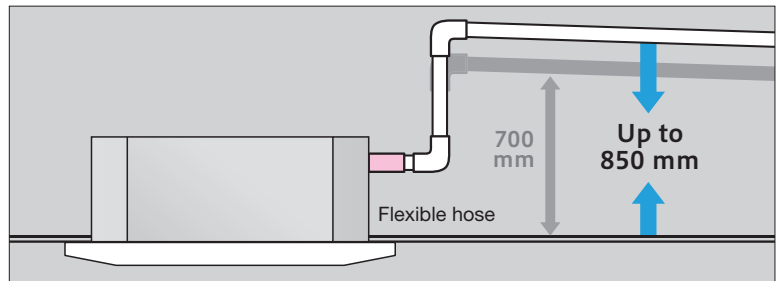


\*Wireless receiver and Motion sensor can be installed to the position as shown

- ① Standard Panel only
- ①+③ Standard Panel with corner panel with motion sensor
- ①+④ Standard Panel with corner panel with wireless receiver
- ①+⑤ Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
- ② Draft Prevention Panel only
- ②+③ Draft Prevention Panel with corner panel with motion sensor
- ②+④ Draft Prevention Panel with corner panel with wireless receiver
- ②+⑤ Draft Prevention Panel with corner panel with motion sensor & corner panel with wireless receiver

## Point 6 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.



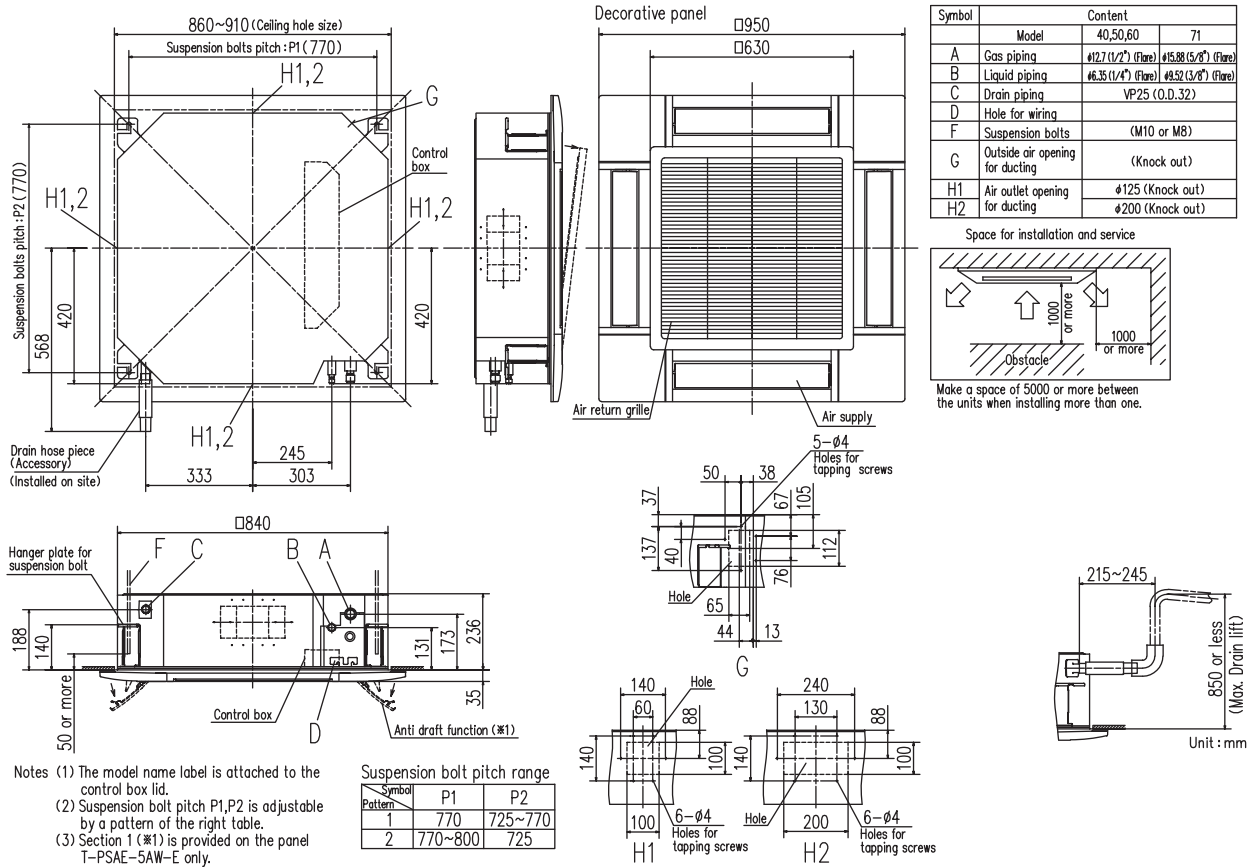
## OUTDOOR UNIT

SRC · FDC	Hyper Inverter			Micro Inverter		
	40~60ZSX	71VNX	100~140VN(S)X	100~140VN(S)A	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

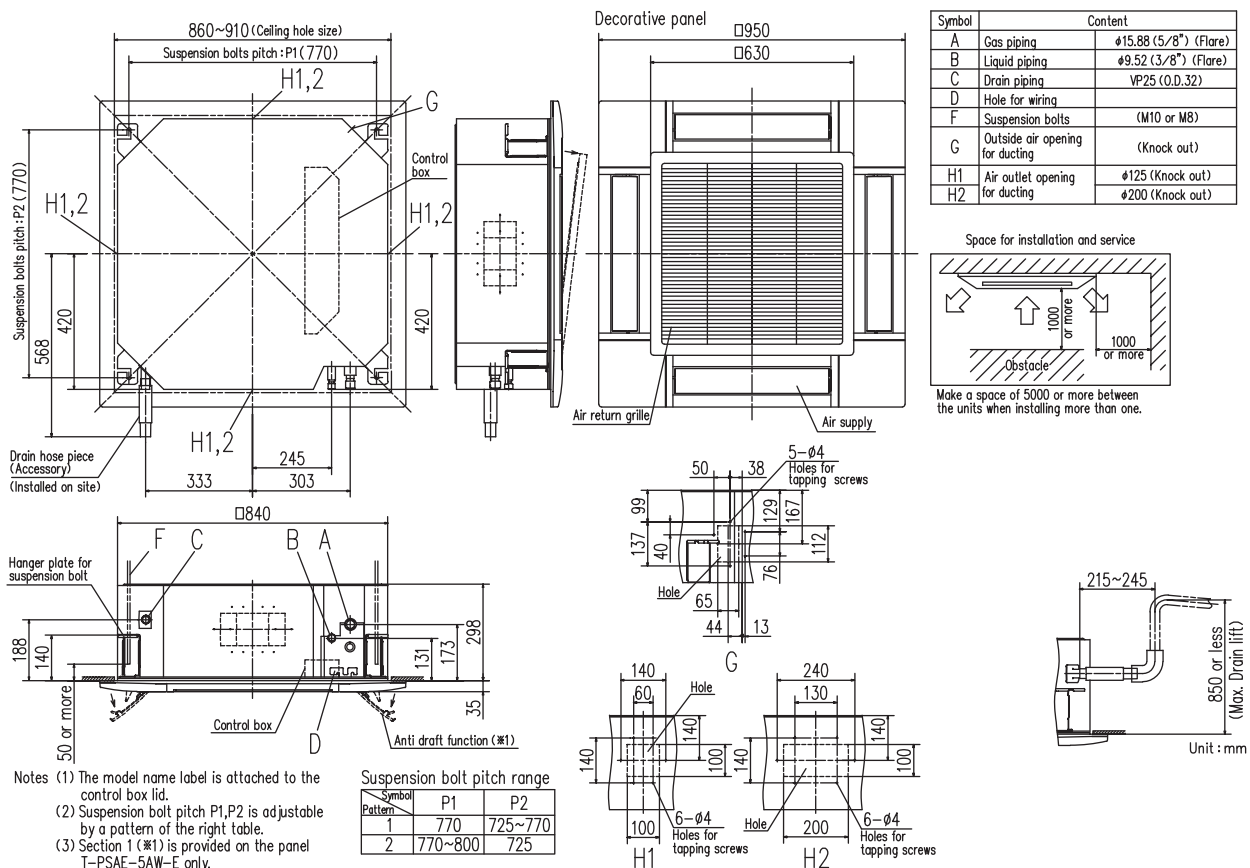
FDC	Standard Inverter		
	71VNP	90VNP1	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## 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 )	5.6 ( 1.1 ~ 6.3 )	7.1 ( 3.2 ~ 8.0 )
Nominal heating capacity (Min~Max)		kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )	8.0 ( 3.6 ~ 9.0 )
Power consumption	Cooling/Heating	kW 0.93 / 1.03	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
Max. current			12	15	15
Sound power level*1	Indoor	Cooling/Heating	53 / 53	54 / 54	60 / 60
	Outdoor		Cooling/Heating	63 / 63	63 / 63
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 27	38 / 33 / 30 / 27	44 / 34 / 32 / 28
		Heating (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 27	38 / 33 / 30 / 27	44 / 34 / 32 / 28
	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52
		Cooling/Heating	19 / 16 / 13 / 10	20 / 16 / 13 / 10	26 / 17 / 14 / 11
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	20 / 16 / 13 / 10	26 / 17 / 14 / 11
	Outdoor	Cooling/Heating	36 / 33	39 / 33	41.5 / 39
Exterior dimensions		Indoor	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	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")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30		Max. 50
Vertical height differences		Outdoor is higher/lower	Max.20 / Max.20		Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15~46*2		-15~43*3
	Heating		-20~24		-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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

		<i>HyperInverter</i>					
Set model name		FDT100VNXVG	FDT125VNXVG	FDT140VNXVG	FDT100VSXVG	FDT125VSXVG	FDT140VSXVG
Indoor unit		FDT100VG	FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG
Outdoor unit		FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW 11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	kW 2.50 / 2.58	3.42 / 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
Max. current			24	26	26	15	15
Sound power level*1	Indoor	Cooling/Heating	63 / 63	64 / 64	64 / 64	63 / 63	64 / 64
	Outdoor		Cooling/Heating	70 / 70	70 / 70	72 / 72	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	48 / 39 / 37 / 31	49 / 41 / 39 / 32
		Heating (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	48 / 39 / 37 / 31	49 / 41 / 39 / 32
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50
		Cooling/Heating	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19	39 / 26 / 23 / 17	38 / 28 / 25 / 18
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19	39 / 26 / 23 / 17	38 / 28 / 25 / 18
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions		Indoor	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950				
		Outdoor	1,300 x 970 x 370				
Net weight		Indoor	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	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*2				
	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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

### 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 : 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	FDT140VNXTVG
		Twin				Triple
Indoor unit		FDT40VG x 2	FDT50VG x 2	FDT60VG x 2	FDT71VG x 2	FDT50VG x 3
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	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		5	5	5	5	5
Max. current	A	17	24	26	26	26
Sound power level*1	Indoor*2	Cooling/Heating	53 / 53	54 / 54	60 / 60	62 / 62
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 27	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 27	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
		Cooling/Heating	19 / 16 / 13 / 10	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDPTH	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor	HeightxWidthxDPTH	750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor		24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)	
	Outdoor		60	105		
Ref.piping size	Liquid/Gas		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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter			
		FDT100VSXPVG	FDT125VSXPVG	FDT140VSXPVG	FDT140VSXTVG
		Twin			Triple
Indoor unit		FDT50VG x 2	FDT60VG x 2	FDT71VG x 2	FDT50VG x 3
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	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		5	5	5	5
Max. current	A	15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	54 / 54	60 / 60	62 / 62
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
		Cooling/Heating	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDPTH	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor	HeightxWidthxDPTH	1,300 x 970 x 370		
Net weight	Indoor		24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)
	Outdoor		105		
Ref.piping size	Liquid/Gas		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		
Panel			T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

### 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.



## SPECIFICATIONS

		<b>Micro Inverter</b>						
Set model name		FDT100VNAVG	FDT125VNAVG	FDT140VNAVG	FDT100VSAVG	FDT125VSAVG	FDT140VSAVG	
Indoor unit		FDT100VG	FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG	
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA	
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)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)		kW 11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	
Power consumption		kW 2.73 / 2.64	4.05 / 3.74	4.84 / 4.43	2.73 / 2.63	4.05 / 3.74	4.84 / 4.43	
EER/COP		Cooling/Heating 3.66 / 4.26	3.09 / 3.74	2.81 / 3.50	3.66 / 4.26	3.09 / 3.74	2.81 / 3.50	
Inrush current		A 5	5	5	5	5	5	
Max. current		24	24	24	15	15	15	
Sound power level*1	Indoor	Cooling/Heating 63 / 63	64 / 64	64 / 64	63 / 63	64 / 64	64 / 64	
	Outdoor	Cooling/Heating 70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) dB(A) 48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	
		Heating (P-Hi/Hi/Me/Lo) 48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	
	Outdoor	Cooling/Heating 54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59	
		Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) m³/min 37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19	37 / 26 / 23 / 17	38 / 28 / 25 / 18
	Outdoor	Cooling/Heating 75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
Exterior dimensions		Indoor	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950					
		Outdoor	845 x 970 x 370					
Net weight		Indoor	30(Unit:25 Standard Panel:5)					
		Outdoor	80		82			
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.50 / Max.15					
Outdoor operating temperature range		Cooling	°C -15~50*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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

The values are for simultaneous Multi operation.

		<b>Micro Inverter</b>				
Set model name		FDT100VNAPVG	FDT125VNAPVG	FDT140VNAPVG	FDT140VNATVG	
		Twin		Triple		
Indoor unit		FDT50VG x 2	FDT60VG x 2	FDT71VG x 2	FDT50VG x 3	
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA	
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)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)		kW 11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	
Power consumption		kW 2.82 / 2.90	3.79 / 3.31	4.22 / 3.29	4.22 / 3.29	
EER/COP		Cooling/Heating 3.55 / 3.86	3.30 / 4.23	3.22 / 4.71	3.22 / 4.71	
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	71 / 71	73 / 73	73 / 73	
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo) dB(A) 38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29	38 / 33 / 30 / 27	
		Heating (P-Hi/Hi/Me/Lo) 38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29	38 / 33 / 30 / 27	
	Outdoor	Cooling/Heating 54 / 56	55 / 57	57 / 59	57 / 59	
		Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo) m³/min 20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating 75 / 73	75 / 73	75 / 73	75 / 73	
Exterior dimensions		Indoor	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
		Outdoor	845 x 970 x 370			
Net weight		Indoor	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)	
		Outdoor	80			
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.50 / Max.15			
Outdoor operating temperature range		Cooling	°C -15~50*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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter			
		FDT100VSAPVG	FDT125VSAPVG	FDT140VSAPVG	
Indoor unit		FDT50VG x 2	FDT60VG x 2	FDT71VG x 2	
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA	
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 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating kW	2.82 / 2.90	3.79 / 3.31	4.22 / 3.29	
EER/COP	Cooling/Heating	3.55 / 3.86	3.30 / 4.23	3.22 / 4.71	
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	71 / 71	73 / 73
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	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)		
	Outdoor		26(Unit:21 Standard Panel:5)		
Ref.piping size	Liquid/Gas	ømm	82		
Refrigerant line (one way) length		m	9.52(3/8") / 15.88(5/8")		
Vertical height differences	Outdoor is higher/lower	m	Max.50		
Outdoor operating temperature range	Cooling	°C	-15~50*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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

The values are for simultaneous Multi operation.

Set model name		Micro Inverter			
		FDT200VSAPVG	FDT250VSAPVG	FDT140VSATVG	
Indoor unit		FDT100VG x 2	FDT125VG x 2	FDT50VG x 3	
Outdoor unit		FDC200VSA	FDC250VSA	FDC140VSA	
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 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)	kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating kW	6.25 / 6.02	8.36 / 7.15	4.22 / 3.29	
EER/COP	Cooling/Heating	3.04 / 3.72	2.87 / 3.78	3.22 / 4.71	
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	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	38 / 33 / 30 / 27
	Outdoor	Cooling/Heating	58 / 59	59 / 62	57 / 59
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating	135 / 135	143 / 151	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	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		24(Unit:19 Standard Panel:5)		
Ref.piping size	Liquid/Gas	ømm	115		
Refrigerant line (one way) length		m	12.7(1/2") / 22.22(7/8")		
Vertical height differences	Outdoor is higher/lower	m	9.52(3/8") / 15.88(5/8")		
Outdoor operating temperature range	Cooling	°C	Max.70		
	Heating		Max.30 / Max.15		
Panel	-15~50*3				
Air filter, Q'ty	T-PSA-5AW-E, T-PSAE-5AW-E				
Remote control (option)	Pocket plastic net x 1(Washable)				
	wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

### 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.

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter			
		FDT200VSATVG	FDT200VSADVG	FDT250VSADVG	
		Triple	Double Twin		
Indoor unit		FDT71VG x 3	FDT50VG x 4	FDT60VG x 4	
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 kW	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	A	5	5	5	
Max. current		20	20	21	
Sound power level*1	Indoor*2	Cooling/Heating	62 / 62	54 / 54	60 / 60
	Outdoor	Cooling/Heating	72 / 74	72 / 74	73 / 75
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	46 / 35 / 34 / 29	38 / 33 / 30 / 27	44 / 34 / 32 / 28
		Heating (P-Hi/Hi/Me/Lo)	46 / 35 / 34 / 29	38 / 33 / 30 / 27	44 / 34 / 32 / 28
	Outdoor	Cooling/Heating	58 / 59	58 / 59	59 / 62
		Cooling/Heating	28 / 18 / 15 / 12	20 / 16 / 13 / 10	26 / 17 / 14 / 11
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	20 / 16 / 13 / 10	26 / 17 / 14 / 11
		Heating (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	20 / 16 / 13 / 10	26 / 17 / 14 / 11
Exterior dimensions	Indoor	HeightxWidthxDepth	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)
				115	
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			-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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2	

Set model name		Standard Inverter			
		FDT71VNPVG	FDT90VNP1VG	FDT100VNP1VG	
		FDT71VNP	FDC90VNP1	FDC100VNP	
Indoor unit		FDT71VNP	FDT100VG	FDT100VG	
Outdoor unit		FDC71VNP	FDC90VNP1	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	2.31 / 1.73	2.67 / 2.19	2.76 / 2.84	
EER/COP	Cooling/Heating	3.07 / 4.10	3.37 / 4.11	3.62 / 3.94	
Inrush current	A	5	5	5	
Max. current		14.5	18.0	21.0	
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 63	63 / 63
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	46 / 35 / 34 / 29	48 / 39 / 37 / 31	48 / 39 / 37 / 31
		Heating (P-Hi/Hi/Me/Lo)	46 / 35 / 34 / 29	48 / 39 / 37 / 31	48 / 39 / 37 / 31
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
		Cooling/Heating	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17
		Heating (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950	
				640 x 800(+71) x 290	
Net weight	Indoor		kg	26(Unit:21 Standard Panel:5)	30(Unit:25 Standard Panel:5)
				45	
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			-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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2	



# CEILING CASSETTE -4way Compact

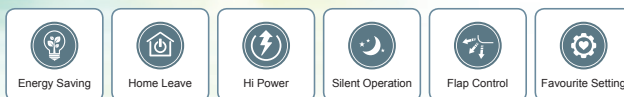
# FDTC

**NEW**



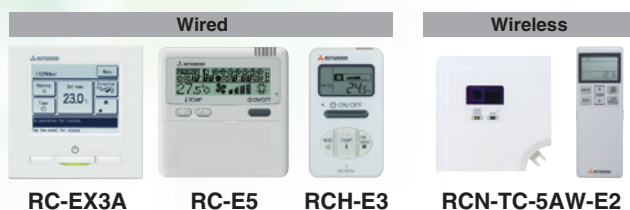
FDTC 40/50/60

Draft Prevention Panel (option)

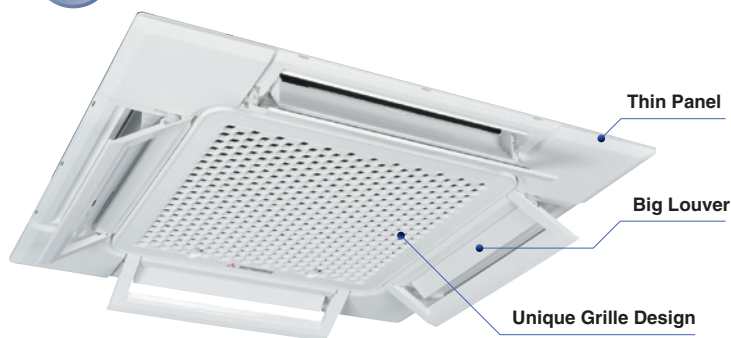


\*Not all functions available with all remote control options.

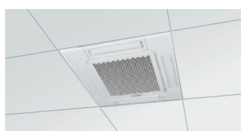
Remote control (option)



## Point 1 European design & Flat panel



### Integrated ceiling system design



A grille designed with a unique structure and a clean white panel harmonize with interior. This design was invented by zweigrad GmbH & Co. KG in Germany.

### Compact Design

□700mm → □620mm

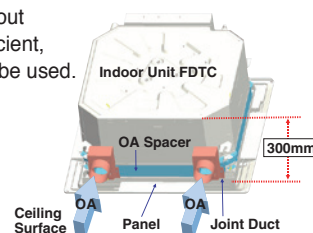
A weight of only 14kg. Height of thin panel and main body is only 248 mm allowing it to be a very easy installation.



### Taking OA (Outside Air) into inside

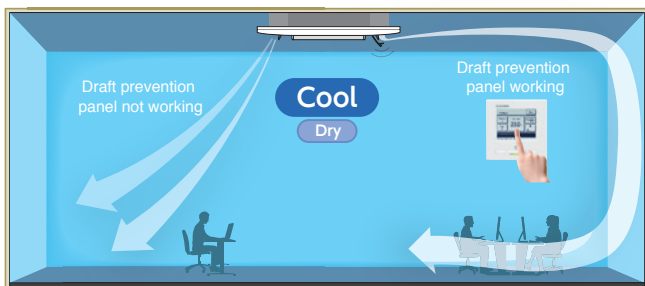
Fresh air can be taken in without option parts. When it is insufficient, existing option parts also can be used.

OA Spacer TC-OAS-E2(option)  
Joint Duct TC-OAD-E(option)



## Point 2 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.



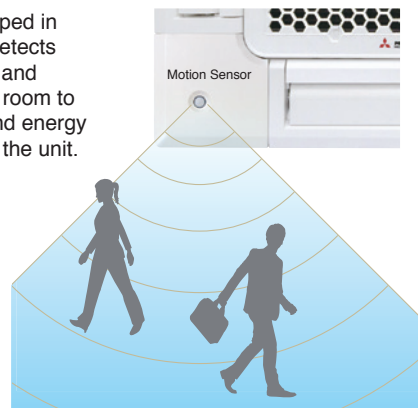
User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, RCN-TC-5AW-E2).

## Point 3 Motion Sensor (Option)

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



LB-TC-5W-E





## SPECIFICATIONS

		<i>Hyper Inverter</i>			
Set model name		FDTC40ZSXVG	FDTC50ZSXVG	FDTC60ZSXVG	
Indoor unit		FDTC40VG	FDTC50VG	FDTC60VG	
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	0.98 / 1.13	1.43 / 1.53	1.76 / 2.14	
EER/COP	Cooling/Heating	4.08 / 3.98	3.50 / 3.53	3.18 / 3.13	
Inrush current	A	5	5	5	
Max. current		12	15	15	
Sound power level*1	Indoor	Cooling/Heating	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52
		Cooling/Heating	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	Cooling/Heating	36 / 33	40 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor		640 x 800(+71) x 290		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		45		
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m	Max.30		
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°C	-15~46*3		
	Heating		-20~24		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2		

The values are for simultaneous Multi operation.

		<i>Hyper Inverter</i>							
Set model name		FDTC71VNX	FDTC100VNX	FDTC125VNX	FDTC140VNX	FDTC100VSX	FDTC125VSX	FDTC140VSX	
		Twin		Triple	Twin		Triple		
Indoor unit		FDTC40VG x 2	FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3	FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3	
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	2.03 / 1.64	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34	
EER/COP	Cooling/Heating	3.50 / 4.88	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69	
Inrush current	A	5	5	5	5	5	5	5	
Max. current		17	24	24	26	15	15	15	
Sound power level*1	Indoor*2	Cooling/Heating	59 / 59	59 / 59	60 / 60	59 / 59	59 / 59	60 / 60	
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	
		Cooling/Heating	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620						
	Outdoor		750 x 880(+88) x 340						
Net weight	Indoor		1,300 x 970 x 370						
	Outdoor		16.5(Unit:14 Standard Panel:2.5)						
Ref.piping size	Liquid/Gas	ømm	60						
Refrigerant line (one way) length		m	9.52(3/8") / 15.88(5/8")						
Vertical height differences	Outdoor is higher/lower	m	Max.50						
Outdoor operating temperature range	Cooling	°C	Max.100						
	Heating		-15~43*3						
Panel			-20~20						
Air filter, Q'ty			TC-PSA-5AW-E, TC-PSAE-5AW-E						
Remote control (option)			Pocket plastic net x 1(Washable)						
			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2						

### 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.



## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter			
		FDTC100VNAPVG	FDTC125VNAPVG	FDTC140VNATVG	
		Twin		Triple	
Indoor unit		FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3	
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	
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)	13.6 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	
Power consumption	Cooling/Heating kW	3.30 / 3.15	4.90 / 4.50	4.75 / 4.60	
EER/COP	Cooling/Heating	3.03 / 3.56	2.55 / 3.11	2.86 / 3.37	
Inrush current		5	5	5	
Max. current		25	25	25	
Sound power level*1	Indoor*2	Cooling/Heating	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
		Cooling/Heating	75 / 73	75 / 73	75 / 73
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
		HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
Exterior dimensions	Indoor		845 x 970 x 370		
	Outdoor				
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		80		
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.50 / Max.15		
Outdoor operating temperature range	Cooling		-15~50*3		
	Heating		-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E2		

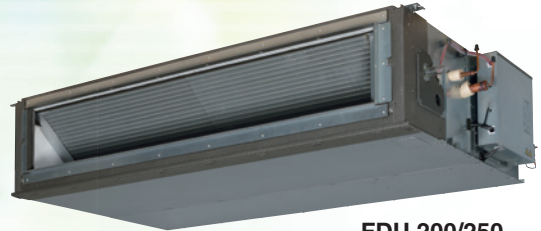
The values are for simultaneous Multi operation.

Set model name		Micro Inverter					
		FDTC100VSAPVG	FDTC125VSAPVG	FDTC140VSATVG	FDTC200VSADVG	FDTC250VSADVG	
		Twin		Triple	Double Twin		
Indoor unit		FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3	FDTC50VG x 4	FDTC60VG x 4	
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA	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)	13.6 (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)	15.5 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	
Power consumption	Cooling/Heating kW	3.30 / 3.15	4.90 / 4.50	4.75 / 4.60	6.95 / 10.7	6.79 / 8.20	
EER/COP	Cooling/Heating	3.03 / 3.56	2.55 / 3.11	2.86 / 3.37	2.73 / 2.10	3.53 / 3.29	
Inrush current		5	5	5	5	5	
Max. current		15	15	15	20	21	
Sound power level*1	Indoor*2	Cooling/Heating	59 / 59	60 / 60	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	72 / 74	75 / 75
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	58 / 59	61 / 62
		Cooling/Heating	75 / 73	75 / 73	75 / 73	135 / 135	143 / 151
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	135 / 135	143 / 151
		HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620				
Exterior dimensions	Indoor		845 x 970 x 370		1,300 x 970 x 370	1,505 x 970 x 370	
	Outdoor						
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		82	115	143
	Outdoor						
Ref.piping size	Liquid/Gas		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			Max.50		Max.70		
Vertical height differences	Outdoor is higher/lower		Max.50 / Max.15		Max.30 / Max.15		
Outdoor operating temperature range	Cooling		-15~50*3				
	Heating		-20~20		-15~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2				

# DUCT CONNECTED -High Static pressure- FDU



FDU 71/100/125/140

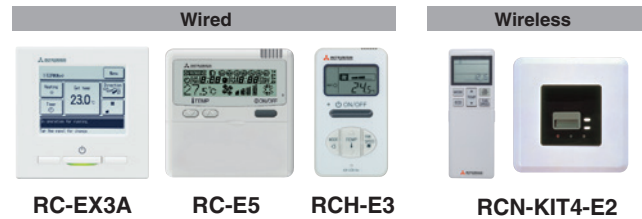


FDU 200/250  
Tropical Usage Mode



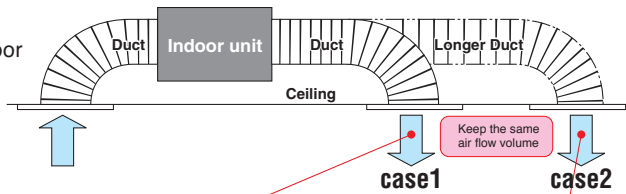
\*Not all functions are available with all remote control options.

## Remote control (option)

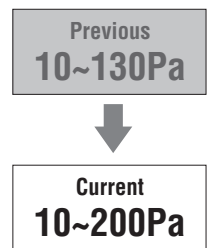


## Point 1 Automatic external static pressure (E.S.P.) control

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.



Expansion of external static pressure range



### RC-E5 E.S.P. button

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



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.

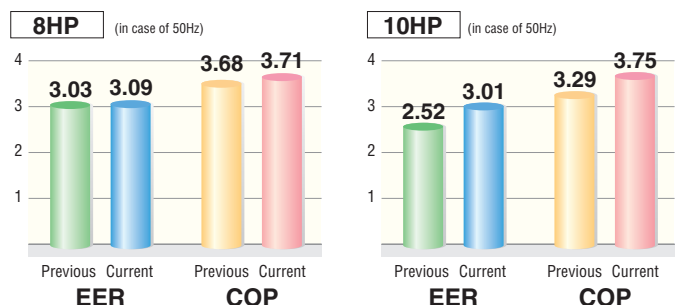
## Point 2 More quiet noise

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!!

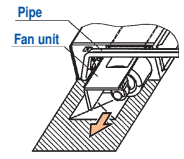
## Point 3 High efficiency

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



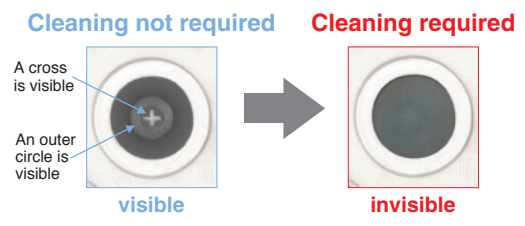
## Point 4 Improvement of the serviceability

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.



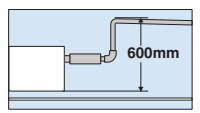
## Point 6 Transparent inspection window

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



## Point 5 Enhanced installation workability

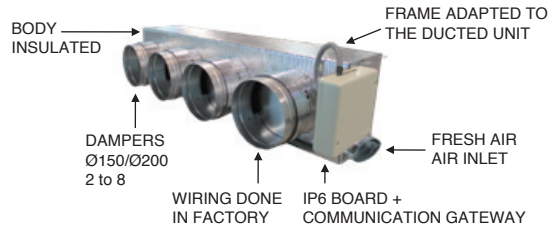
600mm Drain Pump is mounted in FDU71/100/125/140. The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



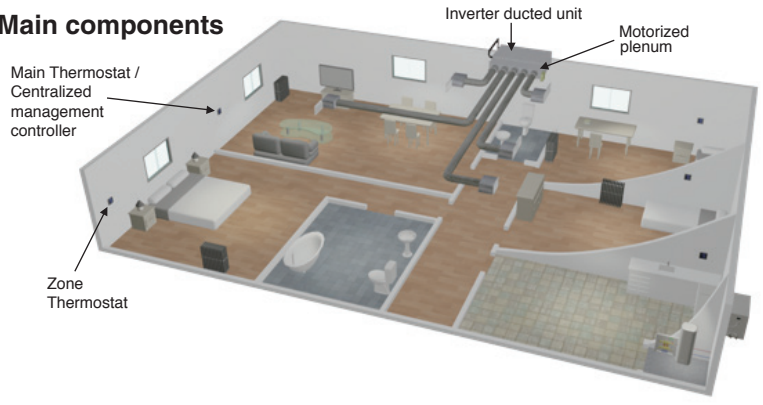
## Round duct adapter (Available for FDU71~140VF)

**AIRZONE** 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

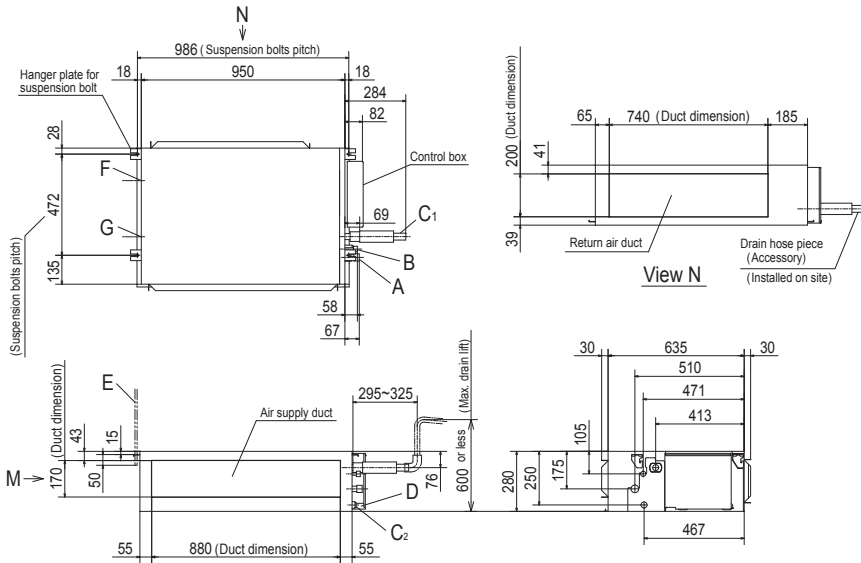
FDC	Hyper Inverter		Micro Inverter		
	71VNX	100~140VN(S)X	100~140VN(S)A	200VSA	250VSA
model					
Chargeless	30m		30m		
Height x Width x Depth (mm)	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

FDC	Standard Inverter		
	71VNP	90VNP1	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

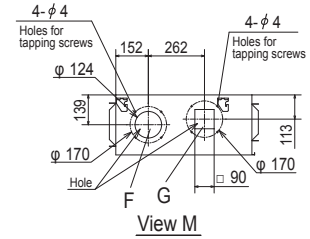


## DIMENSIONS (Unit:mm)

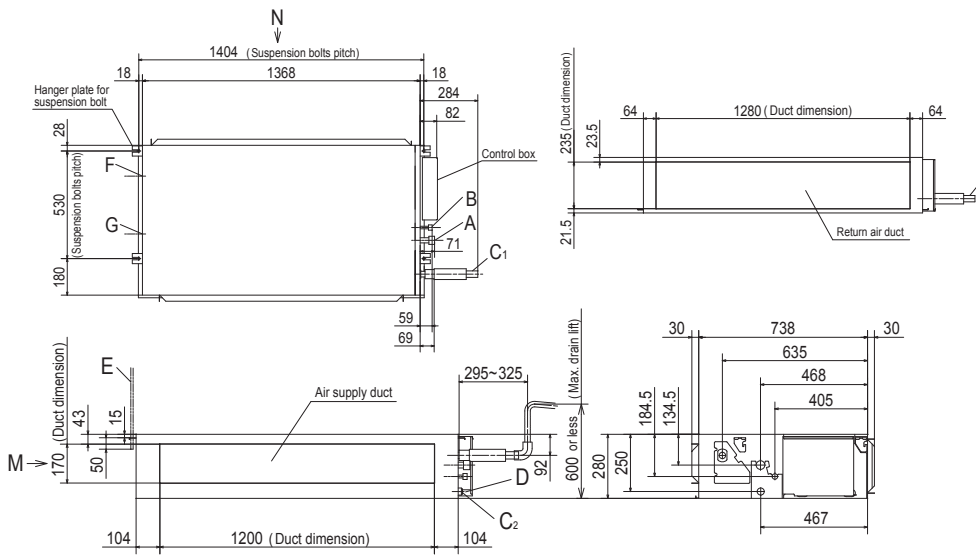
### Model FDU71VF1



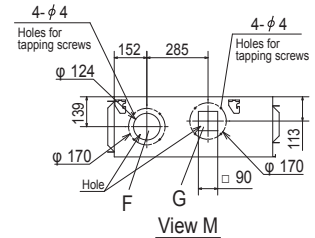
Symbol	Content	
A	Gas piping	φ 15.88 (5/8") (Flare)
B	Liquid piping	φ 9.52 (3/8") (Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20,O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
H	Inspection hole	(450X450)



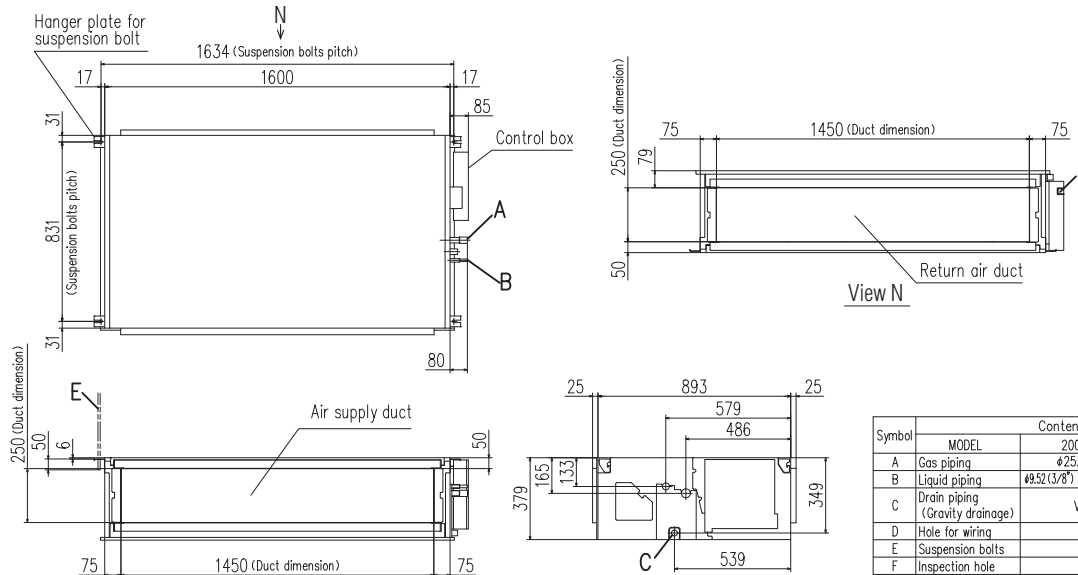
### Models FDU100VF2, 125VF, 140VF



Symbol	Content	
A	Gas piping	φ 15.88 (5/8") (Flare)
B	Liquid piping	φ 9.52 (3/8") (Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20,O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
H	Inspection hole	(450X450)



### Models FDU200VG, 250VG



Symbol	Content		
	MODEL	200	250
A	Gas piping	φ25.4 (1") (Brazeing)	
B	Liquid piping	φ9.52 (3/8") (Brazeing)	φ12.7 (1/2") (Brazeing)
C	Drain piping (Gravity drainage)	VP25 (O.D.32)	
D	Hole for wiring		
E	Suspension bolts	M10	
F	Inspection hole	(450X450)	

## SPECIFICATIONS

		<i>HyperInverter</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
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50
		Cooling/Heating	51 / 48	48 / 50	48 / 50
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m <sup>3</sup> /min 24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20
		Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	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		
	Outdoor	HeightxWidthxDepth	750 x 880(+88) x 340		
Net weight	Indoor		kg 34		
	Outdoor		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-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

		<i>HyperInverter</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
	Outdoor	Cooling/Heating	70 / 70	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Cooling/Heating	48 / 50	48 / 50
		Cooling/Heating	48 / 50	48 / 50
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m <sup>3</sup> /min 36 / 28 / 25 / 19	39 / 32 / 26 / 20
		Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	Outdoor	Cooling/Heating	100 / 100	100 / 100
External static pressure*2		Pa Standard:60 Max:200	Standard:60 Max:200	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 280 x 1,370 x 740	
	Outdoor	HeightxWidthxDepth	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-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2	

### 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		FDU100VNAVF2	FDU125VNAVF	FDU140VNAVF	FDU100VSAVF2	FDU125VSAVF	FDU140VSAVF		
Indoor unit		FDU100VF2	FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF		
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA		
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)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)		kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	
Power consumption		Cooling/Heating	kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP		Cooling/Heating		3.52 / 4.03	2.87 / 3.79	2.76 / 3.68	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current		A		5	5	5	5	5	
Max. current				26	26	27	17	17	18
Sound power level*1	Indoor	Cooling/Heating		65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59
		Air flow		Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19
	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22		
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*2		Pa	Standard:60 Max:200						
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740				280 x 1,370 x 740	
	Outdoor			845 x 970 x 370				845 x 970 x 370	
Net weight	Indoor		kg	54				54	
	Outdoor			80				82	
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.50 / Max.15					
Outdoor operating temperature range	Cooling	°C	-15~50*3						
	Heating		-20~20						
Air filter		Procure locally							
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2							

		Micro Inverter		Standard Inverter								
Set model name		FDU200VSAVG	FDU250VSAVG	FDU71VNPVF1	FDU90VNP1VF2	FDU100VNP1VF2						
Indoor unit		FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2						
Outdoor unit		FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP1	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	6.15 / 6.03	7.98 / 7.20	2.60 / 1.89	2.69 / 2.25	3.00 / 2.93				
EER/COP		Cooling/Heating		3.09 / 3.71	3.01 / 3.75	2.73 / 3.76	3.35 / 4.00	3.33 / 3.82				
Inrush current		A		5	5	5	5					
Max. current				25	27	14.5	18.0	22.0				
Sound power level*1	Indoor	Cooling/Heating		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	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	52 / 50 / 47 / 45	52 / 50 / 47 / 45	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30				
		Heating (P-Hi/Hi/Me/Lo)		52 / 50 / 47 / 45	52 / 50 / 47 / 45	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30				
	Outdoor	Cooling/Heating		57 / 59	59 / 62	54 / 54	57 / 55	57 / 61				
		Air flow		Indoor	Cooling (P-Hi/Hi/Me/Lo)	80 / 72 / 64 / 56	80 / 72 / 64 / 56	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19		
	Heating (P-Hi/Hi/Me/Lo)	80 / 72 / 64 / 56	80 / 72 / 64 / 56	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19						
	Outdoor	Cooling/Heating		135 / 135	143 / 151	36 / 36	63 / 49.5	75 / 79				
External static pressure*2		Pa	Standard:72 Max:200		Standard:35 Max:200	Standard:60 Max:200						
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	379 x 1,600 x 893		280 x 950 x 635		280 x 1,370 x 740				
	Outdoor			1,300 x 970 x 370		640 x 800(+71) x 290		750 x 880(+88) x 340		845 x 970 x 370		
Net weight	Indoor		kg	89		34		54				
	Outdoor			115		45		70				
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 25.4(1")		6.35(1/4") / 12.7(1/2")		6.35(1/4") / 15.88(5/8")		9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.70		Max.30							
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15		Max.20 / Max.20						
Outdoor operating temperature range	Cooling	°C	-15~50*3		-15~46*3							
	Heating		-15~20		-15~20							
Air filter		Procure locally		Procure locally								
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2								

### 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.



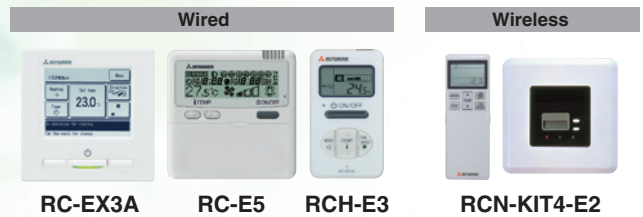
# DUCT CONNECTED -Low/Middle Static pressure-

# 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

- Energy Saving
- Hi Power
- Silent Operation
- Automatic Operation
- Weekly/Sleep/Peak-Cut Timer
- Self-Diagnostics

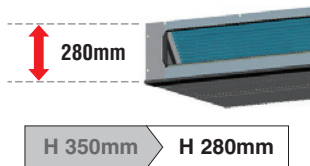
\*Not all functions are available with all remote control options.

## Point 1 Thin design

The height of all FDUM models is only 280mm.

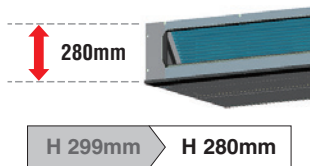
### FDUM100/125/140VF

70mm less



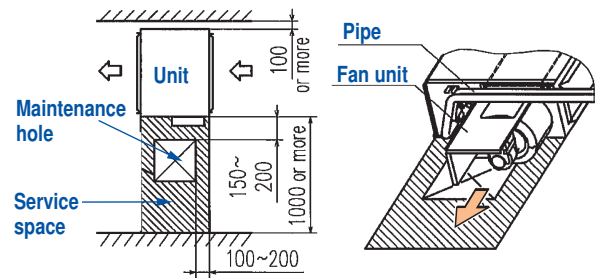
### FDUM40/50/60/71VF

19mm less



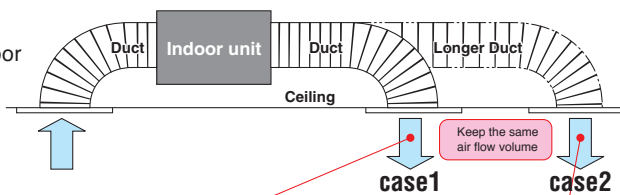
## Point 2 Improvement of the serviceability

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 3 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.



Expansion of external static pressure range

Previous  
10~130Pa



Current  
10~200Pa

### RC-E5

#### E.S.P. button

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



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.

Point  
4

## Transparent inspection window

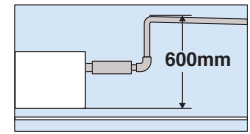
Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan. (Please refer to P39)

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.

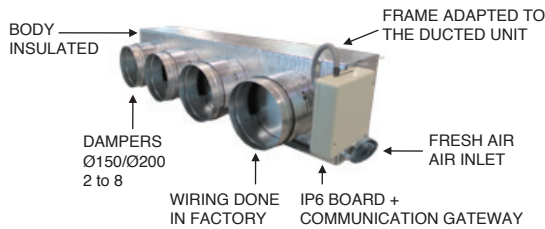


## Round duct adapter

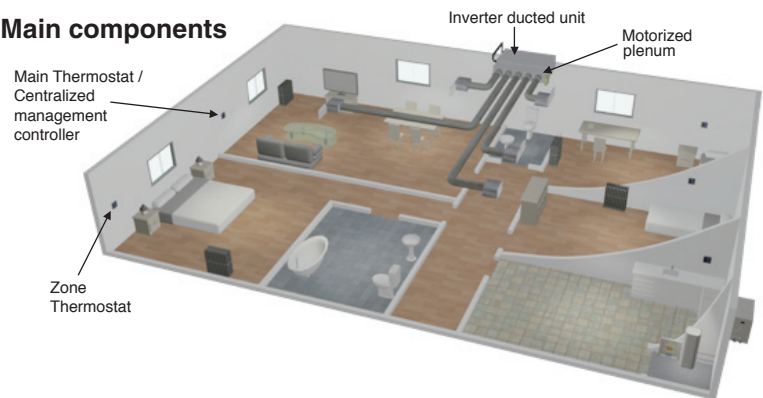


Company: AIRZONE  
URL: <http://www.airzone.es>

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



## Main components



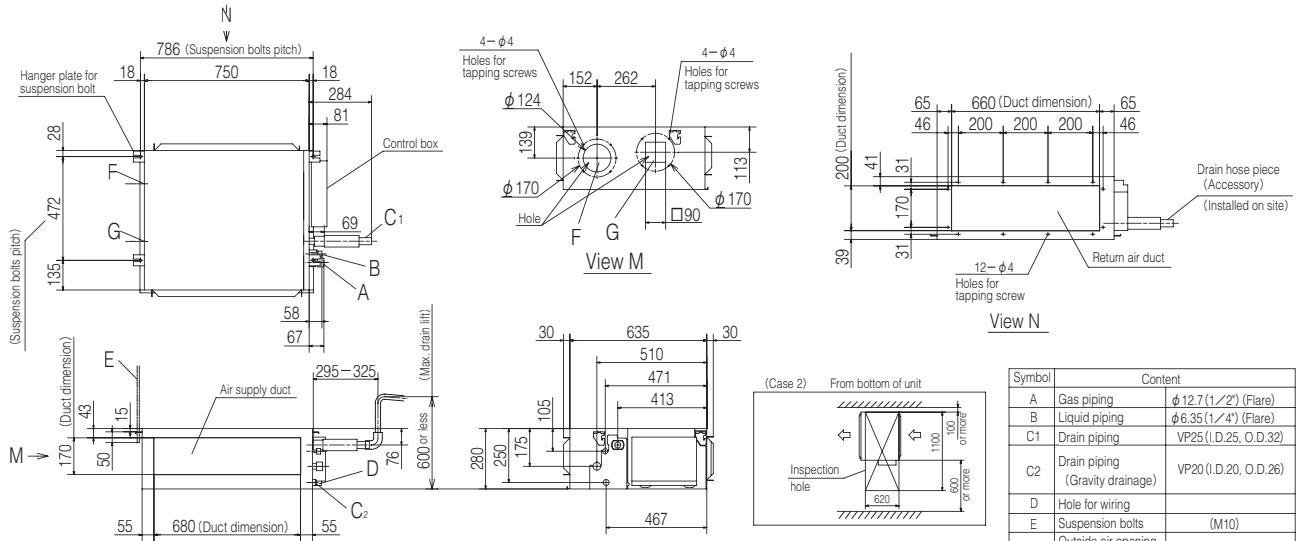
## OUTDOOR UNIT

SRC • FDC	Hyper Inverter			Micro Inverter		
	40~60ZSX	71VNX	100~140VN(S)X	100~140VN(S)A	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	90VNP1	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)

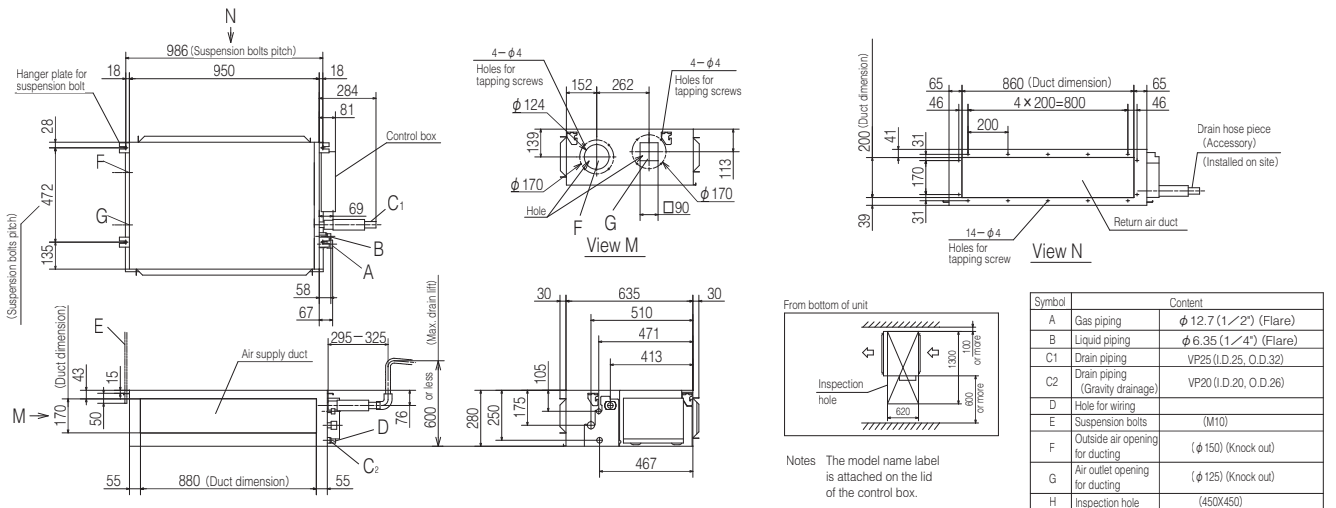
### Models FDUM40VF, FDUM50VF



Symbol	Content
A	Gas piping $\phi 12.7(1/2)$ (Flare)
B	Liquid piping $\phi 6.35(1/4)$ (Flare)
C1	Drain piping VP25 (I.D.25, O.D.32)
C2	Drain piping (Gravity drainage) VP20 (I.D.20, 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)

Notes The model name label is attached on the lid of the control box.

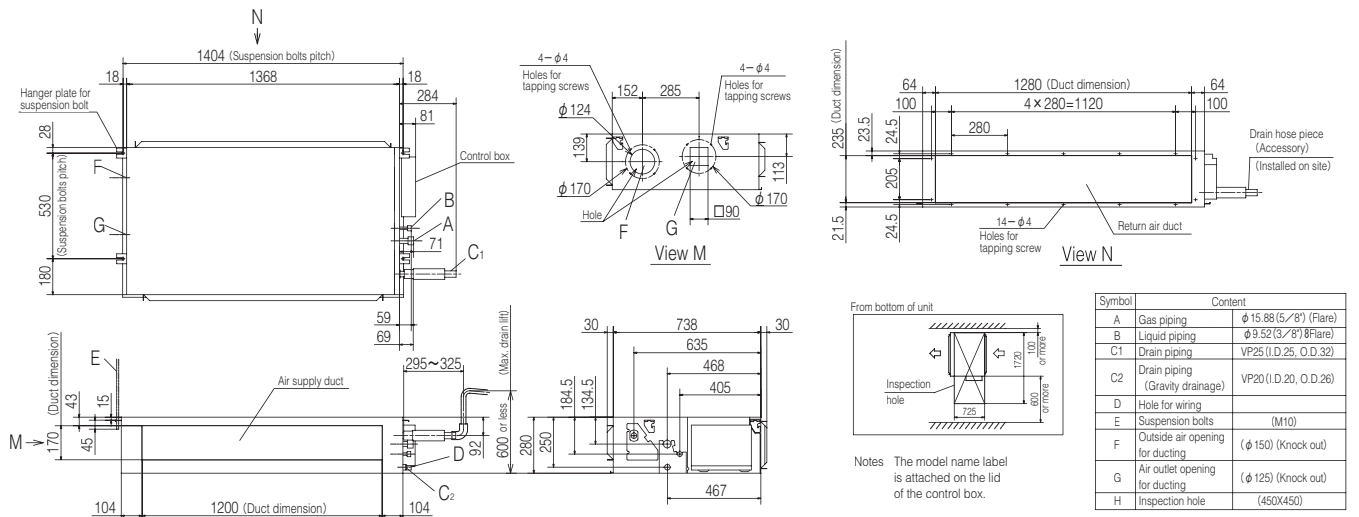
### Models FDUM60VF,71VF1



Symbol	Content
A	Gas piping $\phi 12.7(1/2)$ (Flare)
B	Liquid piping $\phi 6.35(1/4)$ (Flare)
C1	Drain piping VP25 (I.D.25, O.D.32)
C2	Drain piping (Gravity drainage) VP20 (I.D.20, 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)

Notes The model name label is attached on the lid of the control box.

### Models FDUM100VF2,125VF,140VF



Symbol	Content
A	Gas piping $\phi 15.88(5/8)$ (Flare)
B	Liquid piping $\phi 9.52(3/8)$ (Flare)
C1	Drain piping VP25 (I.D.25, O.D.32)
C2	Drain piping (Gravity drainage) VP20 (I.D.20, 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)

Notes The model name label is attached on the lid of the control box.



## SPECIFICATIONS

		<i>HyperInverter</i>					
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 5	5	5	5	5	
Max. current		12	15	15	17	24	
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60	65 / 65	65 / 65	
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64	70 / 70	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	50 / 49	50 / 49	52 / 52	51 / 48	48 / 50
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19
Air flow	Outdoor	Cooling/Heating	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19
		Cooling/Heating	36 / 33	40 / 33	41.5 / 39	60 / 50	100 / 100
External static pressure*3		Pa	Standard:35 Max:100			Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635		280 x 950 x 635		
	Outdoor	HeightxWidthxDepth	640 x 800(+71) x 290		750 x 880(+88) x 340		
Net weight	Indoor		29		34		
	Outdoor		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		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	°C	-20~24		-20~20		
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

		<i>HyperInverter</i>					
Set model name		FDUM125VNXVF	FDUM140VNXVF	FDUM100VSXVF2	FDUM125VSXVF	FDUM140VSXVF	
Indoor unit		FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF	
Outdoor unit		FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW 14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	
Power consumption	Cooling/Heating	kW 3.49 / 3.77	4.28 / 4.42	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP	Cooling/Heating	3.58 / 3.71	3.27 / 3.62	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current		A 5	5	5	5	5	
Max. current		26	26	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	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	Indoor	Cooling (P-Hi/Hi/Me/Lo)	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
		Heating (P-Hi/Hi/Me/Lo)	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
Air flow	Outdoor	Cooling/Heating	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		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	280 x 1,370 x 740				
	Outdoor	HeightxWidthxDepth	1,300 x 970 x 370				
Net weight	Indoor		54				
	Outdoor		105				
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.100				
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*4				
	Heating	°C	-20~20				
Air filter			Filter kit : UM-FL3EF (option)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

### 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 : 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	FDUM140VNXTVF
		Twin			Triple	
Indoor unit		FDUM40VF x 2	FDUM50VF x 2	FDUM60VF x 2	FDUM71VF1 x 2	FDUM50VF x 3
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
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
		Cooling/Heating	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	
External static pressure*3		Standard:35 Max:100				
Exterior dimensions	Indoor	280 x 750 x 635			280 x 950 x 635	
	Outdoor	750 x 880(+88) x 340			1,300 x 970 x 370	
Net weight	Indoor	29			34	
	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**4				
	Heating	°C -20~20				
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter				
		FDUM100VVSXPVF	FDUM125VVSXPVF	FDUM140VVSXPVF1	FDUM140VVSXTVF	
		Twin		Triple		
Indoor unit		FDUM50VF x 2	FDUM60VF x 2	FDUM71VF1 x 2	FDUM50VF x 3	
Outdoor unit		FDC100VVSX	FDC125VVSX	FDC140VVSX	FDC140VVSX	
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	
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	
		Cooling/Heating	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	
Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100		
External static pressure*3		Standard:35 Max:100				
Exterior dimensions	Indoor	280 x 750 x 635			280 x 950 x 635	
	Outdoor				1,300 x 970 x 370	
Net weight	Indoor	29			34	
	Outdoor	60			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**4				
	Heating	°C -20~20				
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

## SPECIFICATIONS

		Micro Inverter					
Set model name		FDUM100VNAV2	FDUM125VNAV	FDUM140VNAV	FDUM100VSAV2	FDUM125VSAV	FDUM140VSAV
Indoor unit		FDUM100VF2	FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA
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)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)
Nominal heating capacity (Min~Max)		kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)
Power consumption		kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21	2.84 / 2.78	4.36 / 3.69
EER/COP			3.52 / 4.03	2.87 / 3.79	2.76 / 3.68	3.52 / 4.03	2.87 / 3.79
Inrush current		A	5	5	5	5	5
Max. current			26	26	27	17	17
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	70 / 70	71 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	54 / 56	55 / 57
		Air flow	Indoor	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19
Air flow	Outdoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20
		Cooling/Heating	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		80	82			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.50				
Vertical height differences		Outdoor is higher/lower	Max.50 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~50*4				
	Heating		-20~20				
Air filter		Filter kit : UM-FL3EF (option)					
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

The values are for simultaneous Multi operation.

		Micro Inverter				
Set model name		FDUM100VNAPVF	FDUM125VNAPVF	FDUM140VNAPVF1	FDUM140VNATVF	FDUM100VSAPVF
		Twin		Triple	Twin	
Indoor unit		FDUM50VF x 2	FDUM60VF x 2	FDUM71VF1 x 2	FDUM50VF x 3	FDUM50VF x 2
Outdoor unit		FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA	FDC100VSA
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)	13.6 (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)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)
Power consumption		kW	3.25 / 3.21	4.53 / 3.75	5.02 / 4.20	3.25 / 3.21
EER/COP			3.08 / 3.49	2.76 / 3.73	2.71 / 3.69	3.08 / 3.49
Inrush current		A	5	5	5	5
Max. current			26	26	27	27
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	70 / 70
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	54 / 56
		Air flow	Indoor*2	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
Air flow	Outdoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
		Cooling/Heating	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	
	Outdoor		845 x 970 x 370			
Net weight	Indoor	kg	29		29	
	Outdoor		80	82		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50			
Vertical height differences		Outdoor is higher/lower	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~50*4			
	Heating		-20~20			
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

### 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 : 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						
		FDUM125VSAPVF	FDUM140VSAPVF1	FDUM200VSAPVF2	FDUM250VSAPVF	FDUM140VSATVF	FDUM200VSATVF1	
Indoor unit		FDUM60VF x 2	FDUM71VF1 x 2	FDUM100VF2 x 2	FDUM125VF x 2	FDUM50VF x 3	FDUM71VF1 x 3	
Outdoor unit		FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA	FDC140VSA	FDC200VSA	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz						
Nominal cooling capacity (Min~Max)		kW 12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	
Nominal heating capacity (Min~Max)		kW 14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	
Power consumption		Cooling/Heating kW 4.53 / 3.75	5.02 / 4.20	6.51 / 6.04	8.33 / 7.52	5.02 / 4.20	6.46 / 6.15	
EER/COP		Cooling/Heating 2.76 / 3.73	2.71 / 3.69	2.92 / 3.71	2.88 / 3.59	2.71 / 3.69	2.94 / 3.64	
Inrush current		A	5	5	5	5	5	
Max. current			17	18	22	24	18	22
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	65 / 65	65 / 65	67 / 67	60 / 60	65 / 65
	Outdoor	Cooling/Heating	71 / 71	73 / 73	72 / 74	73 / 75	73 / 73	72 / 74
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	37 / 32 / 29 / 26	38 / 33 / 29 / 25
		Heating (P-Hi/Hi/Me/Lo)	36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	37 / 32 / 29 / 26	38 / 33 / 29 / 25
	Outdoor	Cooling/Heating	55 / 57	57 / 59	58 / 59	59 / 62	57 / 59	58 / 59
		Cooling (P-Hi/Hi/Me/Lo)	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	13 / 10 / 9 / 8	24 / 19 / 15 / 10
Air flow	Outdoor	Heating (P-Hi/Hi/Me/Lo)	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	13 / 10 / 9 / 8	24 / 19 / 15 / 10
		Cooling/Heating	75 / 73	75 / 73	135 / 135	143 / 151	75 / 73	135 / 135
External static pressure*3		Pa	Standard:35 Max:100	Standard:60 Max:100	Standard:35 Max:100	Standard:35 Max:100	Standard:35 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635		280 x 1,370 x 740		280 x 750 x 635	280 x 950 x 635
	Outdoor		845 x 970 x 370		1,300 x 970 x 370		845 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor		34		54		29	34
	Outdoor		82		115 143		82	115
Ref.piping size		Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8") 12.7(1/2") / 22.22(7/8")		9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length		m	Max.50		Max.70		Max.50	Max.70
Vertical height differences		Outdoor is higher/lower	m Max.50 / Max.15		Max.30 / Max.15		Max.50 / Max.15	Max.30 / Max.15
Outdoor operating temperature range		Cooling			-15~50**4			
		Heating	-20~20		-15~20		-20~20	-15~20
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)					
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

Set model name		Standard Inverter				
		FDUM71VNPVF1	FDUM90VNP1VF2	FDUM100VNP1VF2		
Indoor unit		FDUM71VF1	FDUM100VF2	FDUM100VF2		
Outdoor unit		FDC71VNP	FDC90VNP1	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 2.60 / 1.89	2.69 / 2.25	3.00 / 2.93		
EER/COP		Cooling/Heating 2.73 / 3.76	3.35 / 4.00	3.33 / 3.82		
Inrush current		A	5	5		
Max. current			14.5	18.0	22.0	
Sound power level*1	Indoor	Cooling/Heating	65 / 65	65 / 65	65 / 65	
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30	
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30	
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61	
		Cooling (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19	
Air flow	Outdoor	Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19	
		Cooling/Heating	36 / 36	63 / 49.5	75 / 79	
External static pressure*3		Pa	Standard:35 Max:100	Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635		280 x 1,370 x 740	
	Outdoor		640 x 800(+71) x 290		750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		34		54	
	Outdoor		45		70	
Ref.piping size		Liquid/Gas	ømm 6.35(1/4") / 12.7(1/2")		6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30			
Vertical height differences		Outdoor is higher/lower	m Max.20 / Max.20			
Outdoor operating temperature range		Cooling				
		Heating	-15~46**4			
Air filter			Filter kit : UM-FL2EF / UM-FL3EF (option)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

# WALL MOUNTED SRK



Only used with Multi System.

**SRK 50•60**



Common to the both case of Single and Multi

**SRK 100**



\*Not all functions are available with all remote control options.

### Wired remote control (Option)



**RC-EX3A**



**RC-E5**



**RCH-E3**

## 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.

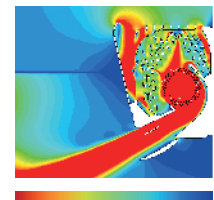
## Point 2 Jet Technology

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.



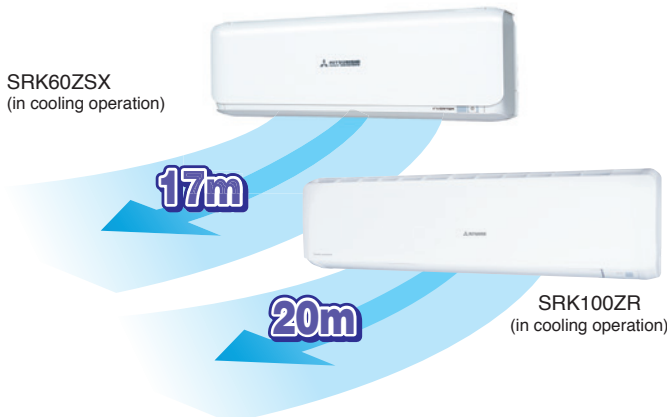
(C) Mitsubishi Aircraft Corporation



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

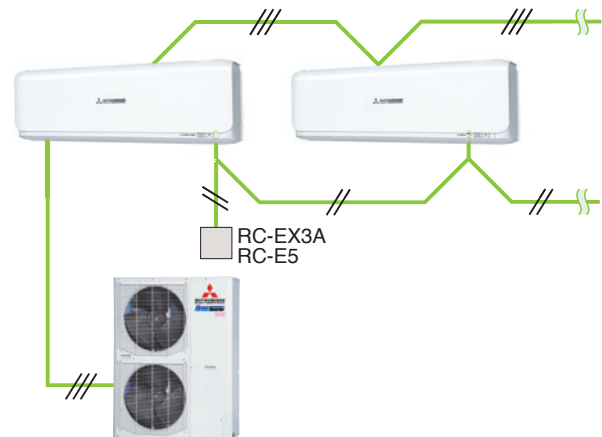
## Point 3 Long Reach Air Flow

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



## Point 4 Indoor unit connection

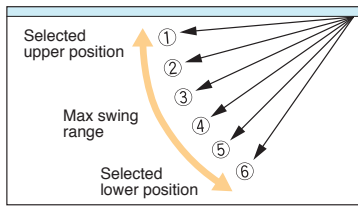
Max three indoor units are connectable to one outdoor unit.



※SC-BIKN2-E is necessary to connect to wired remote controller.

## Point 5 Flap control system

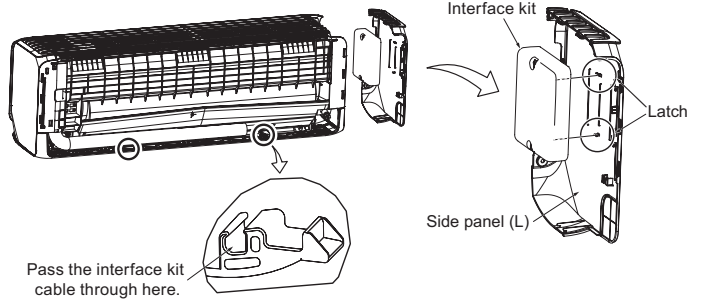
The flap can swing within the range of upper and lower flap position selected.



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

## Point 6 SC-BKN2-E connection (option)

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

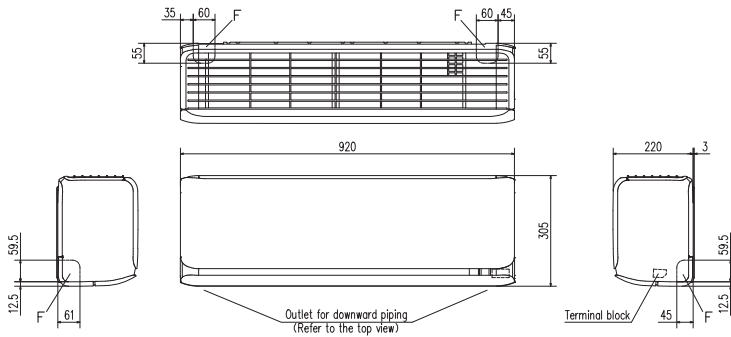


## OUTDOOR UNIT

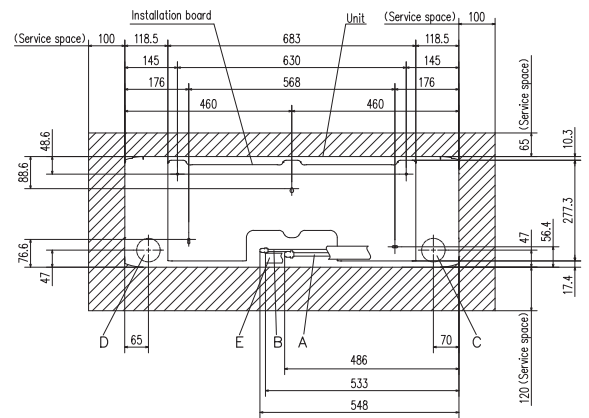
	<i>Hyper Inverter</i>	<i>Micro Inverter</i>	<i>Standard Inverter</i>
FDC	100~140VN(S)X	100~140VN(S)A	200VSA
model			
Chargeless	30m	30m	15m
Height x Width x Depth (mm)	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370

## DIMENSIONS (Unit:mm)

SRK50ZSX-W, 60ZSX-W

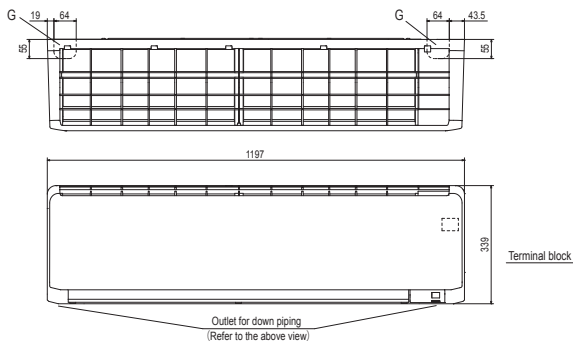


Symbol	Content
A	Gas piping φ12.7 (1/2") (Flare)
B	Liquid piping φ6.35 (1/4") (Flare)
C	Hole on wall for right rear piping (φ65)
D	Hole on wall for left rear piping (φ65)
E	Drain hose VP16
F	Outlet for piping

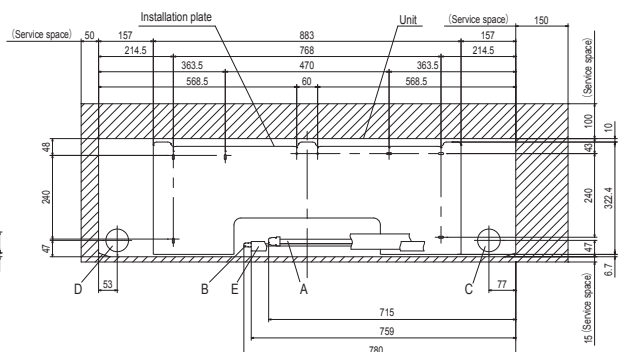


Space for installation and service when viewing from the front

SRK100ZR-S



Symbol	Content
A	Gas piping φ15.88 (5/8") (Flare)
B	Liquid piping φ9.52 (3/8") (Flare)
C	Hole on wall for right rear piping (φ65)
D	Hole on wall for left rear piping (φ65)
E	Drain hose VP16
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					
		SRK100VNXPSZX	SRK125VNXPSZX	SRK140VNXPTZSX	SRK100VSPZSX	SRK125VSPZSX	SRK140VSPZSX
		Twin		Triple	Twin		Triple
Indoor unit		SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3	SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
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	5	5
Max. current		24	26	26	15	15	15
Sound power level*1	Indoor*2	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*2	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22	44 / 39 / 31 / 22	46 / 41 / 33 / 22
		Heating (Hi/Me/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23	46 / 41 / 33 / 23	46 / 42 / 34 / 23
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50
		Cooling/Heating	48 / 50	48 / 50	49 / 52	48 / 50	49 / 52
Air flow	Indoor*2	Cooling (Hi/Me/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
		Heating (Hi/Me/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
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	305 x 920 x 220				
	Outdoor	HeightxWidthxDepth	1,300 x 970 x 370				
Net weight	Indoor		13				
	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	°C	-20~20				
Air filter, Q'ty			Polypropylene net x 2(washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E				

Set model name		Micro Inverter			
		SRK100VNAZR		SRK100VSAZR	
Indoor unit		SRK100ZR-S		SRK100ZR-S	
Outdoor unit		FDC100VNA		FDC100VSA	
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 )		10.0 ( 4.0 ~ 11.2 )	
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )		11.2 ( 4.0 ~ 12.5 )	
Power consumption	Cooling/Heating	3.19 / 2.78		3.19 / 2.78	
EER/COP	Cooling/Heating	3.13 / 4.03		3.13 / 4.03	
Inrush current	A	5		5	
Max. current		24		15	
Sound power level*1	Indoor	63 / 63		63 / 63	
	Outdoor	70 / 70		70 / 70	
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)	48 / 45 / 40 / 27	48 / 45 / 40 / 27	
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30	48 / 43 / 38 / 30	
	Outdoor	Cooling/Heating	54 / 56	54 / 56	
		Cooling/Heating	54 / 56	54 / 56	
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6 / 10.4	
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1 / 13.6	
	Outdoor	Cooling/Heating	75 / 73	75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	339 / 1,197 / 262		
	Outdoor	HeightxWidthxDepth	845 / 970 / 370		
Net weight	Indoor		16.5		
	Outdoor		80	82	
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.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*3		
	Heating	°C	-20~20		
Air filter, Q'ty			Polypropylene net x2 (Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-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.

## SPECIFICATIONS

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

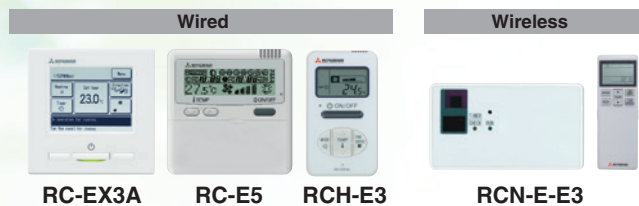
				<b>Micro Inverter</b>	<b>Standard Inverter</b>
Set model name				<b>SRK200VSAPZR</b>	<b>SRK100VNP1ZR</b>
				<b>Twin</b>	
Indoor unit				SRK100ZR-S x 2	SRK100ZR-S
Outdoor unit				FDC200VSA	FDC100VNP
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz	1 Phase 220-240V, 50Hz / 220V, 60Hz
Nominal cooling capacity (Min~Max)		kW		19.0 ( 5.2 ~ 22.4 )	10.0 ( 2.4 ~ 10.5 )
Nominal heating capacity (Min~Max)		kW		22.4 ( 3.3 ~ 25.0 )	11.2 ( 3.2 ~ 11.5 )
Power consumption		Cooling/Heating	kW	7.52 / 7.41	3.09 / 3.28
EER/COP		Cooling/Heating		2.53 / 3.02	3.24 / 3.41
Inrush current			A	5	14.4
Max. current				20	21
Sound power level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling/Heating		63 / 63	63 / 63
	Outdoor	Cooling/Heating		72 / 74	70 / 74
Sound pressure level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo/Ulo)	dB(A)	48 / 45 / 40 / 27	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)		48 / 43 / 38 / 30	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating		58 / 59	57 / 61
Air flow	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo/Ulo)	m <sup>3</sup> /min	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6
		Heating (Hi/Me/Lo/Ulo)		27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1
	Outdoor	Cooling/Heating		135 / 135	75 / 80
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	339 x 1,197 x 262	
	Outdoor			1,300 x 970 x 370	845 x 970 x 370
Net weight	Indoor		kg	16.5	
	Outdoor			115	70
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")	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* <sup>3</sup>	-15~46* <sup>3</sup>
		Heating		-15~20	
Air filter, Q'ty		Polypropylene net x2 (Washable)			
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E			

# CEILING SUSPENDED FDE



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

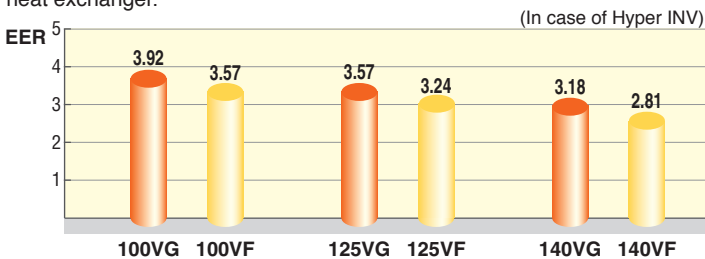
### Remote control (option)



\*Not all functions are available with all remote control options.

## Point 1 High efficiency

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



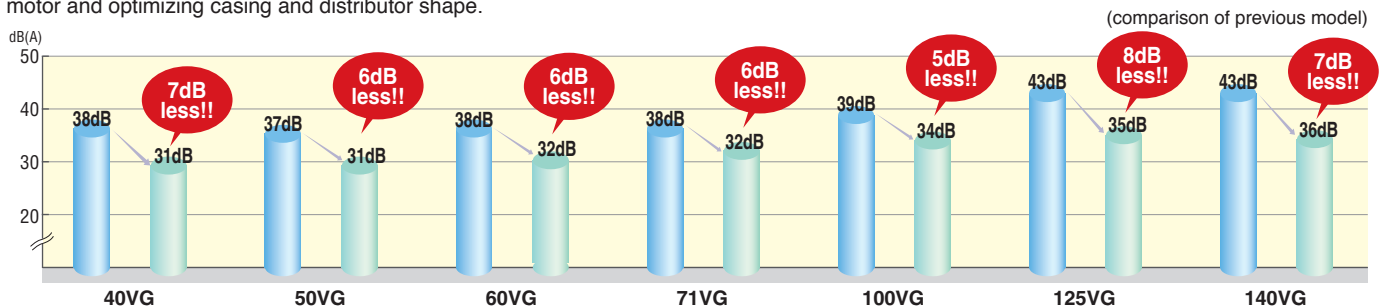
## Point 2 Reduction of weight

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

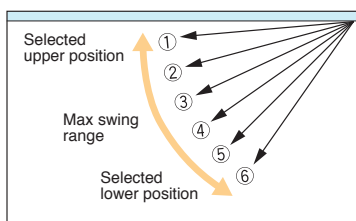
The industry's lowest sound pressure levels were achieved by decreasing air flow volume, decreasing pressure loss with employment of one fan motor and optimizing casing and distributor shape.



## 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)A	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

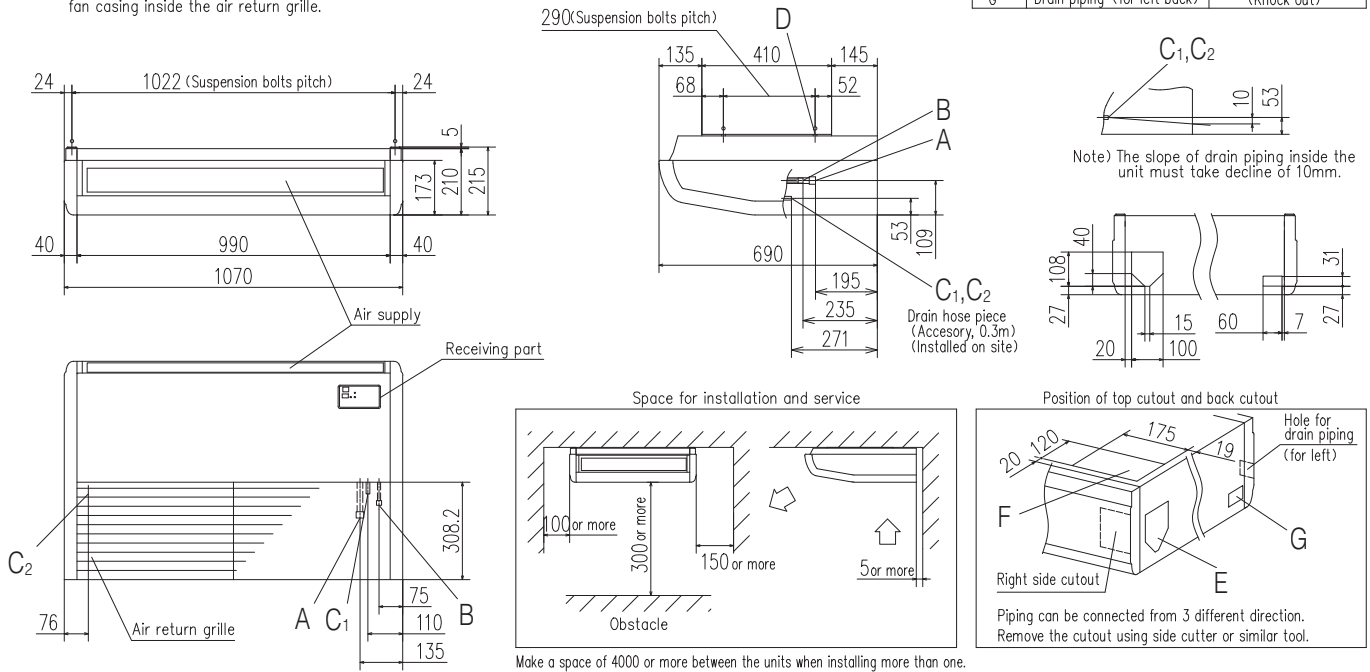
FDC	Standard Inverter		
	71VNP	90VNP1	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm)

Models FDE40VG, 50VG

Symbol	Content	
A	Gas piping	ø12.7 (1/2") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)
C 1,2	Drain piping	VP20 (I.D.20, O.D.26)
D	Hole for suspension bolts	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Drain piping (for left back)	(Knock out)

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

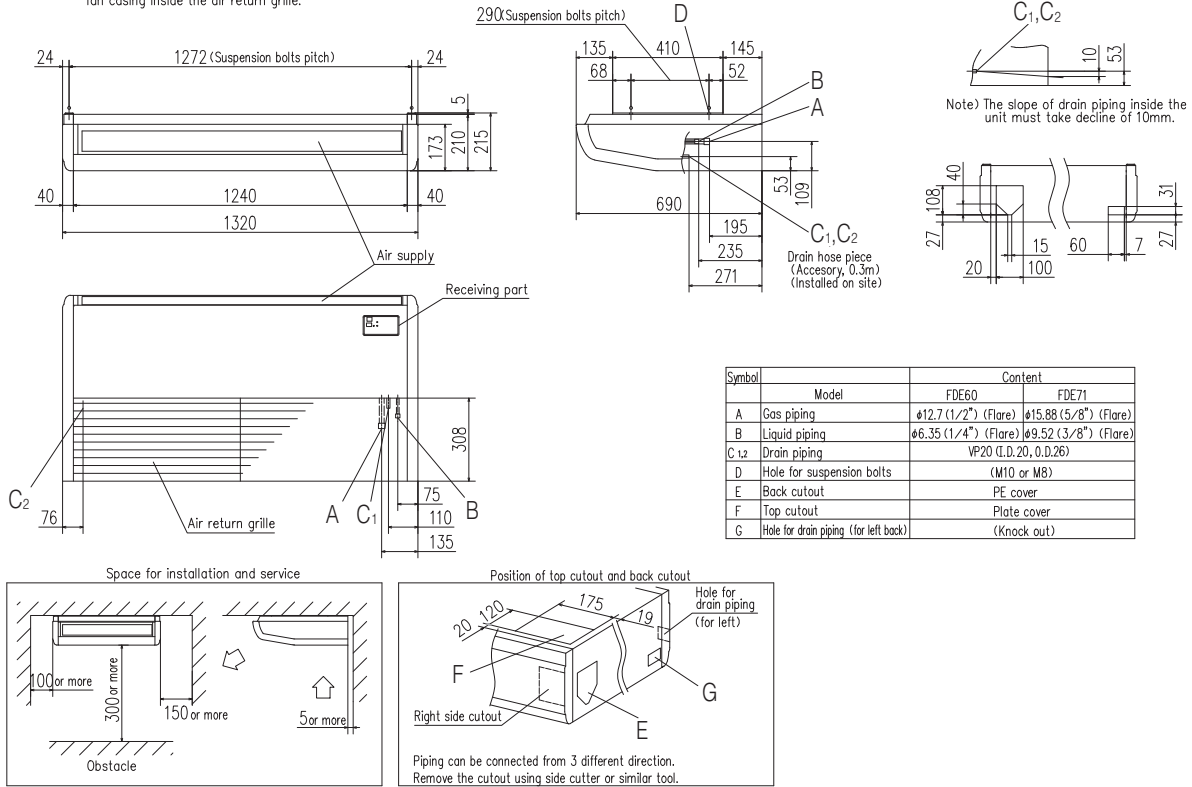


Make a space of 4000 or more between the units when installing more than one.

## DIMENSIONS (Unit:mm)

Models FDE60VG, 71VG

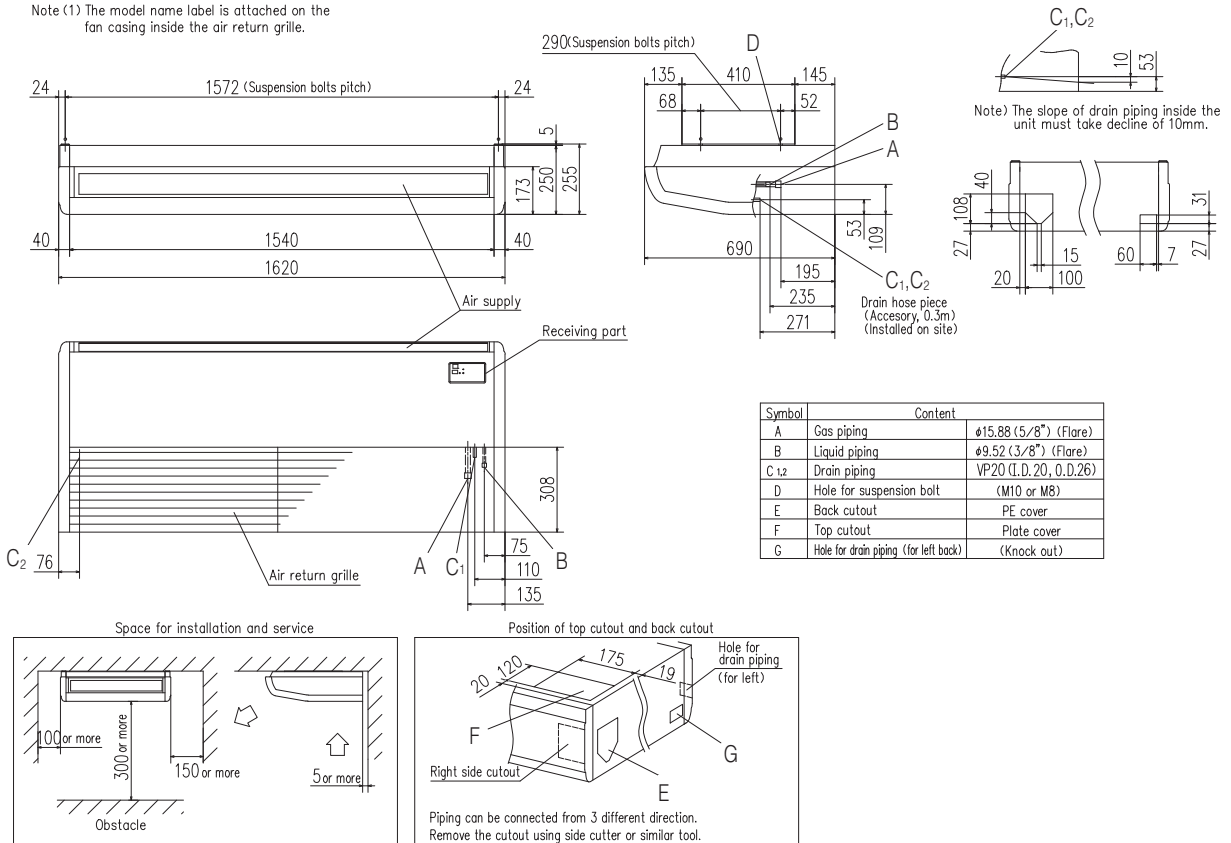
Note (1) The model name label is attached on the fan casing inside the air return grille.



Make a space of 4500 or more between the units when installing more than one.

Models FDE100VG, 125VG, 140VG

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



Make a space of 5000 or more between the units when installing more than one.

## SPECIFICATIONS

		<i>HyperInverter</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				
Max. current		5	5	5	5	5
		12	15	15	17	24
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64	66 / 66
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 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	Indoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 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		28		33	
	Outdoor		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		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*2		-15~43*2	
	Heating	°C	-20~24		-20~20	
Air filter, Q'ty			Pocket Plastic net x2(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3			

		<i>HyperInverter</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				
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				
Max. current		5	5	5	5	5
		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	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35
		Heating (P-Hi/Hi/Me/Lo)	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 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	Indoor	Cooling (P-Hi/Hi/Me/Lo)	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17
		Heating (P-Hi/Hi/Me/Lo)	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 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		43			
	Outdoor		105			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.100			
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*3			
	Heating	°C	-20~20			
Air filter, Q'ty			Pocket Plastic net x2(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3			

### 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 : 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				
		FDE71VNXPGV	FDE100VNXPGV	FDE125VNXPGV	FDE140VNXPGV	FDE140VNXTVG
		Twin				Triple
Indoor unit		FDE40VG x 2	FDE50VG x 2	FDE60VG x 2	FDE71VG x 2	FDE50VG x 3
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)		kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption		Cooling/Heating kW 2.05 / 2.35	3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP		Cooling/Heating 3.46 / 3.40	3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current		A 5	5	5	5	5
Max. current		17	24	26	26	26
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
		Cooling/Heating	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690		210 x 1,320 x 690	210 x 1,070 x 690
	Outdoor		750 x 880(+88) x 340		1,300 x 970 x 370	
Net weight	Indoor		28		33	28
	Outdoor		60		105	
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max. 50		Max. 100	
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*3			
	Heating		-20~20			
Air filter, Q'ty		Pocket plastic net x 2(Washable)				
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3				

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter			
		FDE100VSXPGV	FDE125VSXPGV	FDE140VSXPGV	FDE140VSXTVG
		Twin			Triple
Indoor unit		FDE50VG x 2	FDE60VG x 2	FDE71VG x 2	FDE50VG x 3
Outdoor unit		FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW 11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption		Cooling/Heating kW 3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP		Cooling/Heating 3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current		A 5	5	5	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	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
		Cooling/Heating	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690		210 x 1,320 x 690
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		28		33
	Outdoor		60		105
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.100		
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*3		
	Heating		-20~20		
Air filter, Q'ty		Pocket plastic net x 2(Washable)			
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3			

### 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.

## SPECIFICATIONS

			<b>Micro Inverter</b>						
Set model name			FDE100VNAVg	FDE125VNAVg	FDE140VNAVg	FDE100VSAVg	FDE125VSAVg	FDE140VSAVg	
Indoor unit			FDE100VG	FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG	
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA	
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)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption			kW	2.85 / 2.70	4.45 / 3.74	5.21 / 4.42	2.85 / 2.70	4.45 / 3.74	5.21 / 4.42
EER/COP				3.51 / 4.15	2.81 / 3.74	2.61 / 3.51	3.51 / 4.15	2.81 / 3.74	2.61 / 3.51
Inrush current			A	5	5	5	5	5	5
Max. current				24	24	24	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	64 / 64	65 / 65	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
		Heating (P-Hi/Hi/Me/Lo)		32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690					
	Outdoor			845 x 970 x 370					
Net weight	Indoor		kg	43					
	Outdoor			80			82		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50					
Vertical height differences			Outdoor is higher/lower	Max.50 / Max.15					
Outdoor operating temperature range	Cooling	°C	-15~50*3						
	Heating		-20~20						
Air filter, Q'ty			Pocket Plastic net x2(Washable)						
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3						

The values are for simultaneous Multi operation.

			<b>Micro Inverter</b>						
Set model name			FDE100VNAPVg	FDE125VNAPVg	FDE140VNAPVg	FDE140VNATVg	FDE100VSAPVg	FDE125VSAPVg	
Indoor unit			FDE50VG x 2	FDE60VG x 2	FDE71VG x 2	FDE50VG x 3	FDE50VG x 2	FDE60VG x 2	
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA	FDC100VSA	FDC125VSA	
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)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)
Power consumption			kW	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21	3.12 / 2.99	4.16 / 3.54
EER/COP				3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68	3.21 / 3.75	3.00 / 3.95
Inrush current			A	5	5	5	5	5	5
Max. current				24	24	24	24	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	73 / 73	70 / 70	71 / 71
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	57 / 59	54 / 56	55 / 57
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690		210 x 1,070 x 690	
	Outdoor			845 x 970 x 370					
Net weight	Indoor		kg	28		33		33	
	Outdoor			80			82		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max. 50					
Vertical height differences			Outdoor is higher/lower	Max.50 / Max.15					
Outdoor operating temperature range	Cooling	°C	-15~50*3						
	Heating		-20~20						
Air filter, Q'ty			Pocket plastic net x 2(Washable)						
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3						

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter				
		FDE140VSAPVG	FDE200VSAPVG	FDE250VSAPVG	FDE140VSATVG	FDE200VSATVG
		Twin			Triple	
Indoor unit		FDE71VG x 2	FDE100VG x 2	FDE125VG x 2	FDE50VG x 3	FDE71VG x 3
Outdoor unit		FDC140VSA	FDC200VSA	FDC250VSA	FDC140VSA	FDC200VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )
Nominal heating capacity (Min~Max)	kW	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )
Power consumption	Cooling/Heating	4.74 / 4.21	6.34 / 6.10	8.52 / 7.54	4.74 / 4.21	6.33 / 5.94
EER/COP	Cooling/Heating	2.87 / 3.68	3.00 / 3.67	2.82 / 3.58	2.87 / 3.68	3.00 / 3.77
Inrush current		5	5	5	5	5
Max. current		15	20	21	15	20
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	64 / 64	64 / 64	60 / 60
	Outdoor	Cooling/Heating	73 / 73	72 / 74	73 / 75	73 / 73
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	47 / 41 / 37 / 32	48 / 43 / 38 / 44	48 / 45 / 40 / 35	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)	47 / 41 / 37 / 32	48 / 43 / 38 / 44	48 / 45 / 40 / 35	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating	57 / 59	58 / 59	59 / 62	57 / 59
		Cooling/Heating	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	13 / 10 / 9 / 7
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	75 / 73	135 / 135	143 / 151	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	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	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		33	43	28	33
	Outdoor		82	115	143	82
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")
Refrigerant line (one way) length		m	Max.50	Max.70	Max.50	Max.70
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	Max.30 / Max.15	Max.50 / Max.15	Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15~50*3			
	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-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3			

The values are for simultaneous Multi operation.

Set model name		Micro Inverter	
		FDE200VSADVG	FDE250VSADVG
		Double Twin	
Indoor unit		FDE50VG x 4	FDE60VG x 4
Outdoor unit		FDC200VSA	FDC250VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)	kW	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)	kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	6.90 / 7.10	8.00 / 7.02
EER/COP	Cooling/Heating	2.75 / 3.15	3.00 / 3.85
Inrush current		5	5
Max. current		20	21
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60
	Outdoor	Cooling/Heating	72 / 74
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating	58 / 59
		Cooling/Heating	13 / 10 / 9 / 7
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690
	Outdoor	HeightxWidthxDepth	1,300 x 970 x 370
Net weight	Indoor		28
	Outdoor		115
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 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
Air filter, Q'ty			Pocket plastic net x 2(Washable)
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3

### 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.



## SPECIFICATIONS

		<b>Standard Inverter</b>		
Set model name		<b>FDE71VNPVG</b>	<b>FDE90VNP1VG</b>	<b>FDE100VNP1VG</b>
Indoor unit		FDE71VG	FDE100VG	FDE100VG
Outdoor unit		FDC71VNP	FDC90VNP1	FDC100VNP
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW 7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	kW 2.50 / 1.96	2.75 / 2.22	2.66 / 2.94
	EER/COP	Cooling/Heating 2.84 / 3.62	3.27 / 4.05	3.76 / 3.81
Inrush current		A 5	5	5
Max. current		14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating 60 / 60	64 / 64	64 / 64
	Outdoor	Cooling/Heating 67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 41 / 37 / 32	48 / 43 / 38 / 34
		Heating (P-Hi/Hi/Me/Lo)	47 / 41 / 37 / 32	48 / 43 / 38 / 34
	Outdoor	Cooling/Heating 54 / 54	57 / 55	57 / 61
		Air flow	Cooling (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5
		Outdoor	Cooling/Heating 36 / 36	63 / 49.5
Exterior dimensions	Indoor	HeightxWidthxDepth	250 x 1,620 x 690	
	Outdoor	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		43	
	Outdoor		45	70
Ref.piping size	Liquid/Gas	ømm 6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m Max.30		
Vertical height differences		Outdoor is higher/lower Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°C -15~46*3		
	Heating	-15~20		
Air filter, Q'ty		Pocket Plastic net x2(Washable)		
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3		

# FLOOR STANDING FDF



\*Not all functions are available with all remote control options.

Wireless remote control (Option)



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.

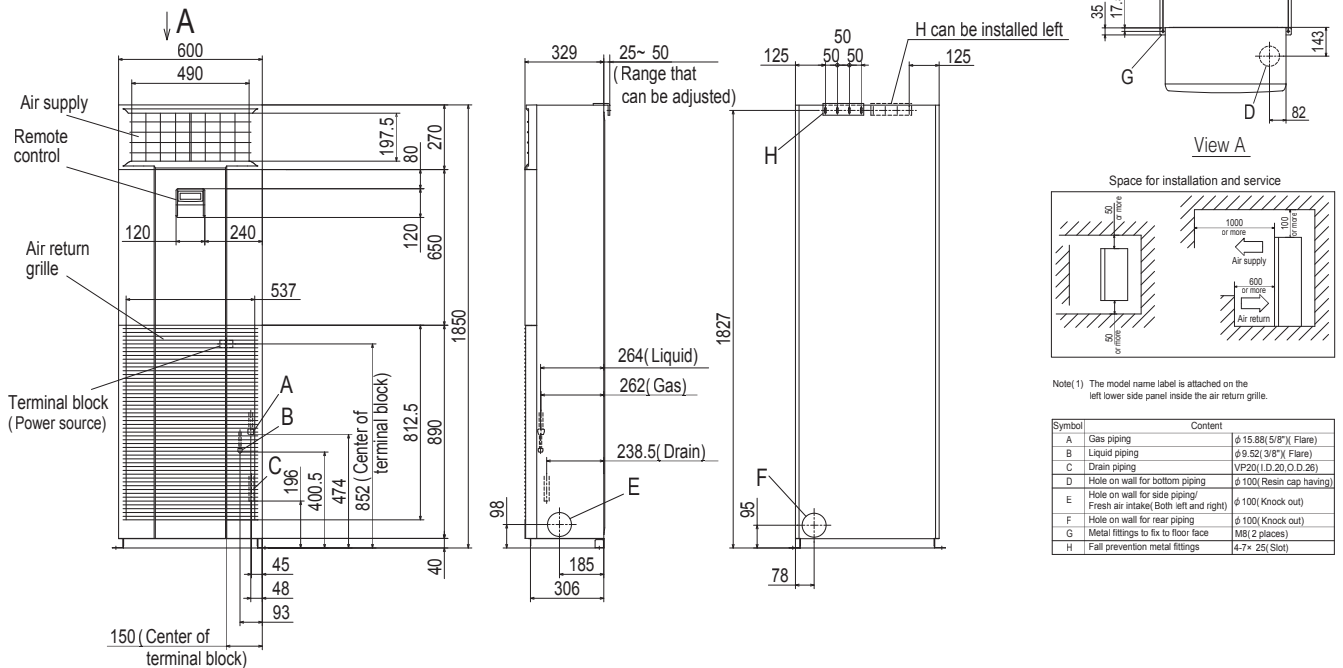


## OUTDOOR UNIT

FDC	Hyper Inverter			Micro Inverter	
	71VNX	100~140VN(S)X	100~140VN(S)A	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

FDC	Standard Inverter		
	71VNP	90VNP1	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		PDF71VNXVD1	PDF100VNXVD2	PDF125VNXVD	PDF140VNXVD	PDF100VSXVD2	PDF125VSXVD	PDF140VSXVD
Indoor unit		PDF71VD1	PDF100VD2	PDF125VD	PDF140VD	PDF100VD2	PDF125VD	PDF140VD
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating kW 2.21 / 2.21	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP		Cooling/Heating 3.21 / 3.62	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41
Inrush current		A 5	5	5	5	5	5	5
Max. current		17	24	26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating 61 / 61	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating 66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) 42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating 51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) 20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating 60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	1,850 x 600 x 320						
	Outdoor	750 x 880(+88) x 340						
Net weight	Indoor	49				52		
	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	Max.30 / Max.15						
Outdoor operating temperature range	Cooling	-15~43*2						
	Heating	-20~20						
Air filter, Q'ty		Plastic net x 1 (washable)						
Remote control		wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)						

### 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 : 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		FDF140VNX PVD1	FDF140VXS PVD1
		Twin	
Indoor unit		FDF71VD1 x 2	
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		4.83 / 4.97	
EER/COP		2.90 / 3.22	
Inrush current		5	
Max. current		26	
Sound power level*1	Indoor*2	61 / 61	
	Outdoor	72 / 72	
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33
	Outdoor	Cooling/Heating	49 / 52
			49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12
		Heating (P-Hi/Hi/Me/Lo)	18 / 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		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		FDF100VNAVD2	FDF125VNAVD	FDF140VNAVD	FDF100VSAVD2	FDF125VSAVD	FDF140VSAVD
Indoor unit		FDF100VD2		FDF125VD		FDF140VD	
Outdoor unit		FDC100VNA		FDC125VNA		FDC140VNA	
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 ~ 13.0 )	13.0 ( 5.0 ~ 13.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		3.12 / 2.94		4.65 / 4.14		5.02 / 4.98	
EER/COP		3.21 / 3.81		2.69 / 3.38		2.59 / 3.11	
Inrush current		5		5		5	
Max. current		24		24		15	
Sound power level*1	Indoor	65 / 65		73 / 73		73 / 73	
	Outdoor	70 / 70		71 / 71		73 / 73	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	54 / 56	55 / 57
			54 / 56	55 / 57	57 / 59	54 / 56	55 / 57
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73	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	80			82		
Ref.piping size	Liquid/Gas	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		Max.50					
Vertical height differences		Max.50 / Max.15					
Outdoor operating temperature range	Cooling	-15~50*3					
	Heating	-20~20					
Air filter, Q'ty		Plastic net x 1(Washable)					
Remote control		wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)					

### 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.



## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		<b>Micro Inverter</b>			
		FDF140VNAPVD1	FDF140VSAPVD1	FDF200VSAPVD2	FDF250VSAPVD
Indoor unit		FDF71VD1 x 2	FDF71VD1 x 2	FDF100VD2 x 2	FDF125VD x 2
Outdoor unit		FDC140VNA	FDC140VSA	FDC200VSA	FDC250VSA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)		kW 13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)		kW 15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption		Cooling/Heating kW 5.15 / 4.35	5.15 / 4.35	6.74 / 6.42	9.15 / 8.49
EER/COP		Cooling/Heating 2.64 / 3.56	2.64 / 3.56	2.82 / 3.49	2.62 / 3.18
Inrush current		A	5	5	5
Max. current			24	15	20
Sound power level*1	Indoor*2	Cooling/Heating	61 / 61	61 / 61	65 / 65
	Outdoor		Cooling/Heating	73 / 73	73 / 73
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	57 / 59	57 / 59	58 / 59
		Cooling/Heating	75 / 73	75 / 73	135 / 135
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19
Exterior dimensions		HeightxWidthxDepth	mm 1,850 x 600 x 320		
Net weight		kg	80	82	115
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.50 / Max.15		
Outdoor operating temperature range		Cooling	°C -15~50*3		
		Heating	-20~20		
Air filter, Q'ty		Plastic net x 1 (washable)			
Remote control		wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

Set model name		<b>Standard Inverter</b>		
		FDF71VNPVD1	FDF90VNP1VD2	FDF100VNP1VD2
Indoor unit		FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit		FDC71VNP	FDC90VNP1	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 2.67 / 2.04	2.81 / 2.25	3.19 / 3.09
EER/COP		Cooling/Heating 2.66 / 3.48	3.20 / 4.00	3.13 / 3.62
Inrush current		A	5	5
Max. current			14.5	18.0
Sound power level*1	Indoor	Cooling/Heating	61 / 61	65 / 65
	Outdoor		Cooling/Heating	67 / 67
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	54 / 54	57 / 55
		Cooling/Heating	36 / 36	63 / 49.5
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	20 / 18 / 16 / 14	29 / 26 / 23 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	20 / 18 / 16 / 14	29 / 26 / 23 / 19
Exterior dimensions		HeightxWidthxDepth	mm 1,850 x 600 x 320	
Net weight		kg	45	57
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)		

# CONTROL SYSTEMS

## Remote Control line up

wired		indoor unit	remote control	wireless		indoor unit	remote control	indoor unit	remote control
			RC-EX3A			FDT	RCN-T-5AW-E2	FDE	RCN-E-E3
			RC-E5			FDTc	RCN-TC-5AW-E2	FDU,FDUM,PDF	RCN-KIT4-E2
			RCH-E3						

## Wired remote control (option)

### RC-EX3A

#### 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

##### 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 ▲▼ button.

**Operation mode**

- Cooling
- Fan
- Dry
- Heating
- Auto

**Run / Stop**

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-EX3A for better energy saving. Five-step capacity control is available.
	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.
Comfort	Big LCD & Touch screen panel	Large 3.8 inch screen has resulted in improved visibility and operability.
	Easy modification of Individual flap control	User can visually confirm and set the direction of louvers 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.
	Silent mode	Set the period of time to operate the Outdoor unit with prioritizing the quietness.
Convenience	Function switch *1	The function switch allows user to select and set two functions among seven available functions .
	Favorite setting *1	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	Adjusting Brightness of the operation lamp	The brightness of the background light can be adjusted by 10 stages.
	LCD contrast setting	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	The external input/output of indoor unit by remote controller can set input/output based on user needs.
	Select the language	Set the language to be displayed on the remote control.
Service	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.

## Wired remote control (option)

### RC-E5

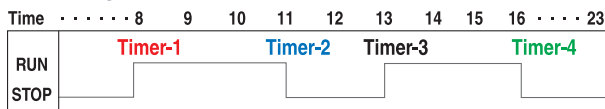


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

#### 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

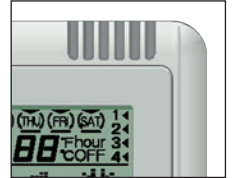


#### Run hour meters to facilitate maintenance checking

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.

## Wireless remote control (option)

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

#### RCN-T-5AW-E2



#### RCN-TC-5AW-E2



#### RCN-KIT4-E2



#### RCN-E-E3



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

## Thermistor (option)

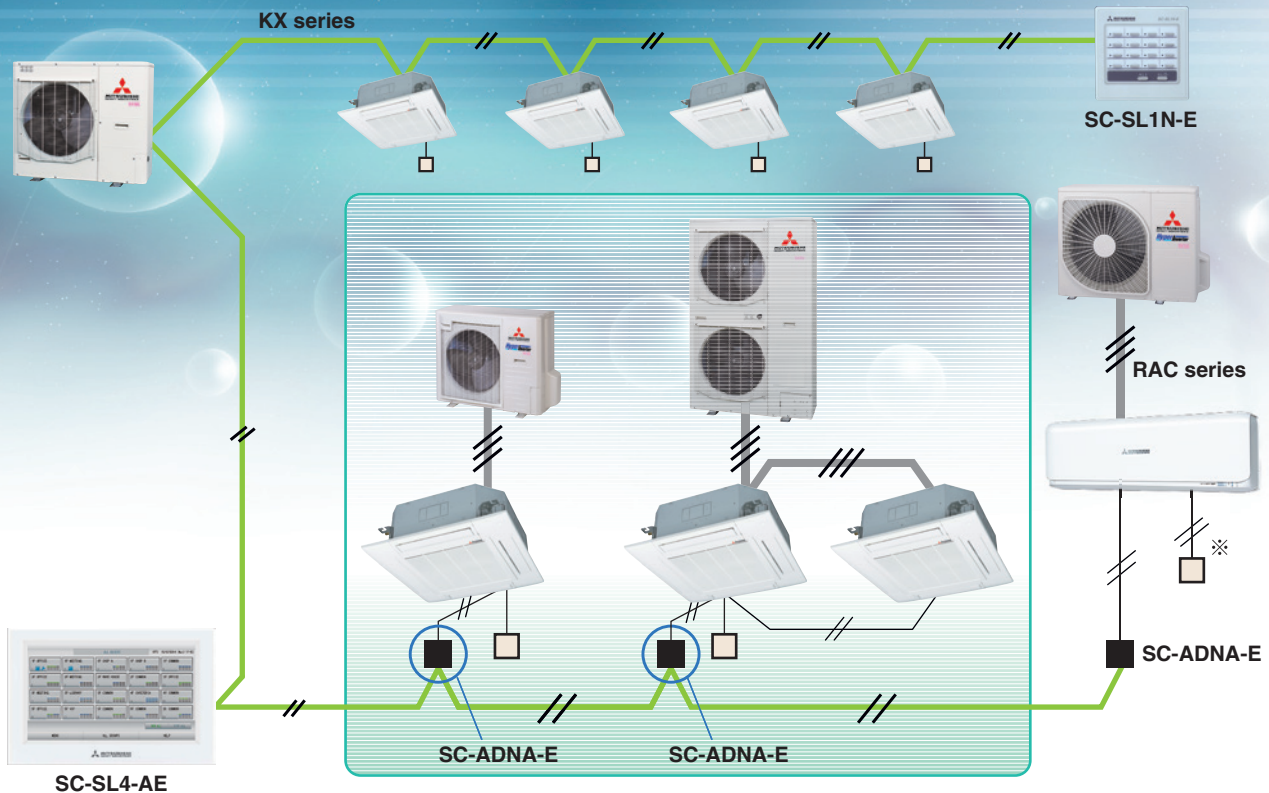
### SC-THB-E3

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



※SC-BIKN2-E is necessary to connect to wired remote controller.

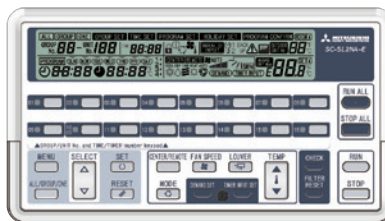
### Central Control

#### 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

#### 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.

#### SC-LGWNB\* (LonWorks gateway)



Production by order

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

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



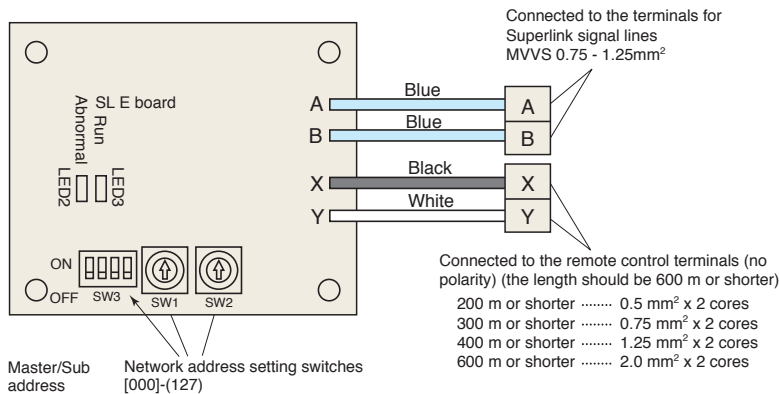
# SUPERLINK E BOARD (SC-ADNA-E)

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).

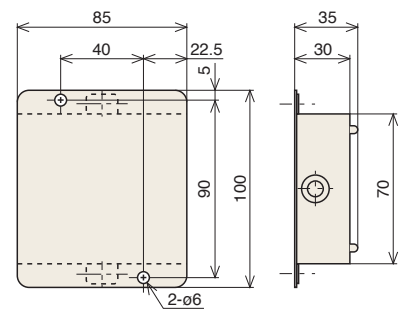
## (1) Functions

- (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"> <li>• Transmit the information of plural "Master" units to the network.</li> <li>• Transmit the abnormalities of the "Slave" units to the network.</li> <li>▶ Setting the plural "Master/Slave" units with the dip SW of the printed circuit board.</li> <li>▶ Setting the "Master/Slave" remote controls with the dip SW of the remote control board.</li> </ul>		
<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.



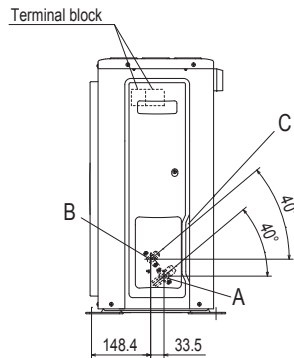
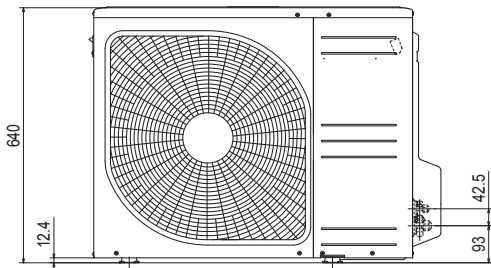
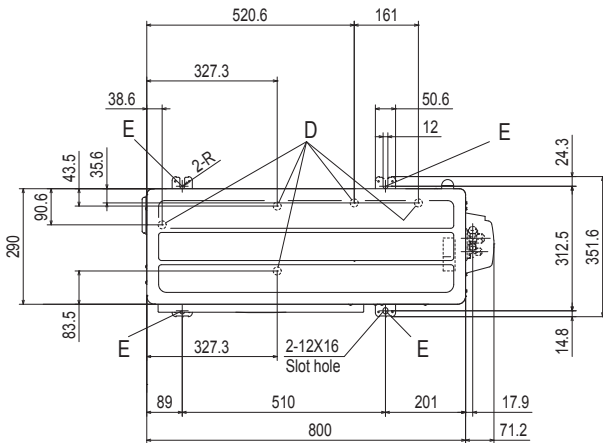
Remote surveillance system



Card key on-off

# OUTDOOR UNIT DIMENSIONS (unit:mm)

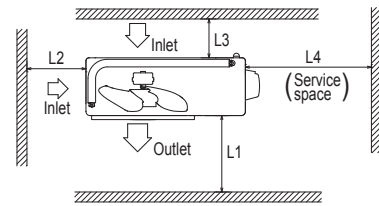
## SRC40ZSX-S, 50ZSX-S, 60ZSX-S



Symbol	Content	
A	Service valve connection (Gas side)	φ 12.7(1/2" )(Flare)
B	Service valve connection (Liquid side)	φ 6.35(1/4" )(Flare)
C	Pipe / cable draw-out hole	
D	Drain discharge hole	φ 20×5 places
E	Anchor bolt hole	M10-12×4 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

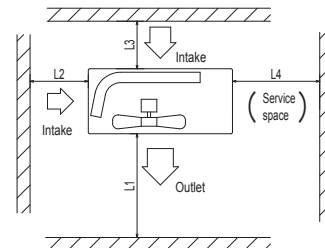
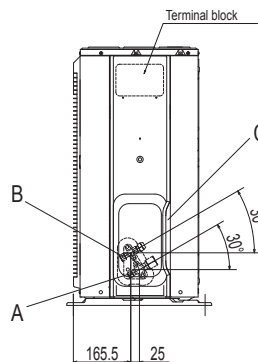
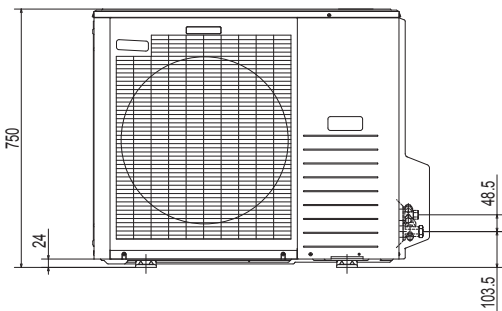
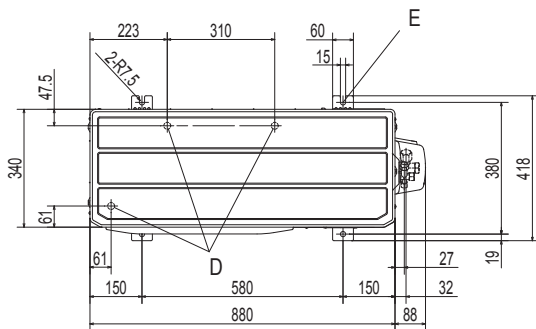
Examples installation	I	II	III	IV
Size				
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

## FDC71VNX

Symbol	Content	
A	Service valve connection (gas side)	φ 15.88 (5/8" ) (Flare)
B	Service valve connection (liquid side)	φ 9.52 (3/8" ) (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ 20 × 3places
E	Anchor bolt hole	M10 × 4places

### Notes

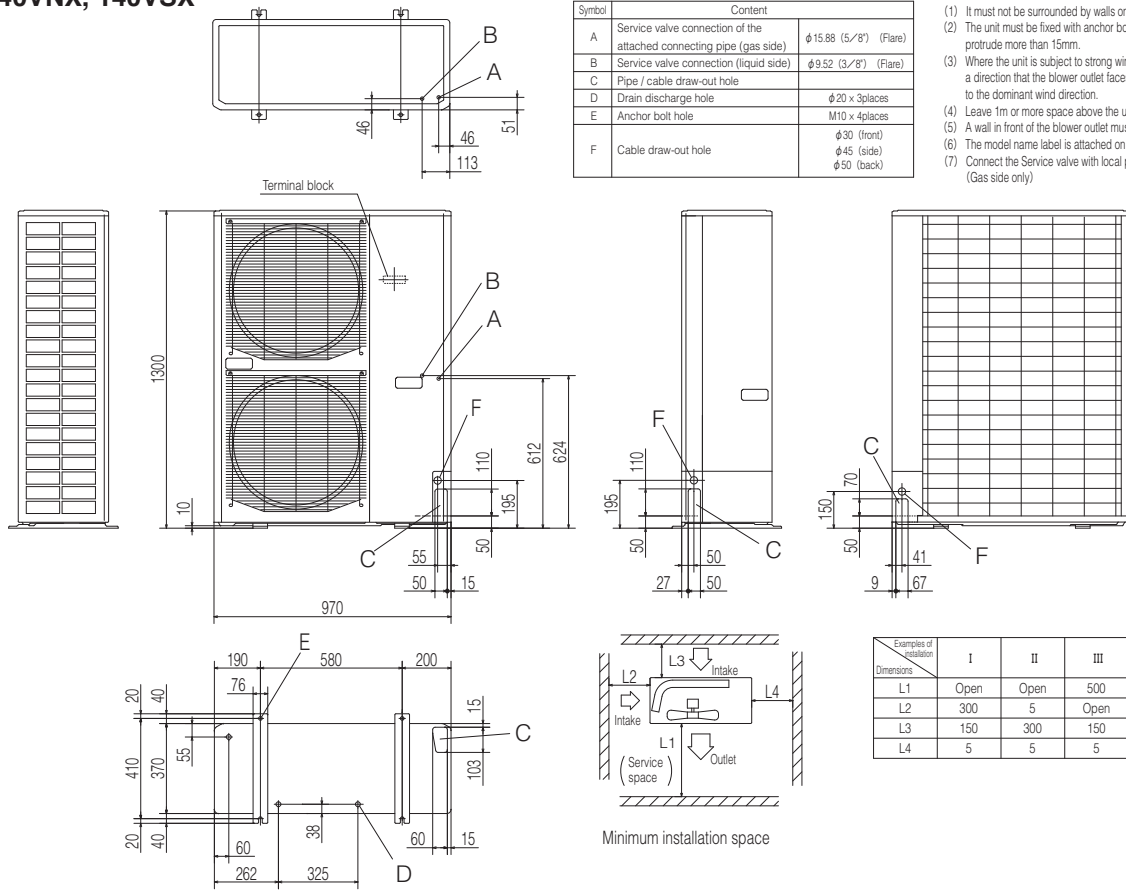
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (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.



Minimum installation space

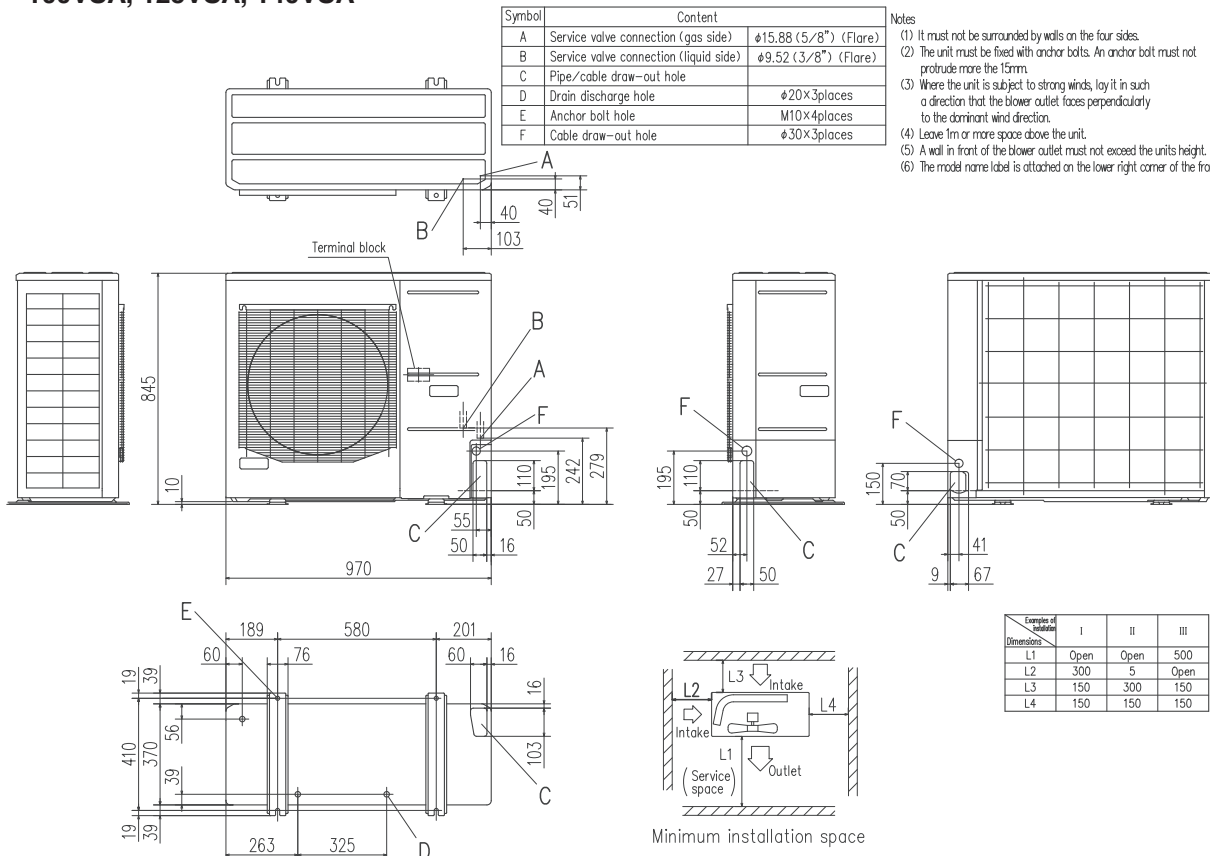
Examples of applications	I	II	III
Dimensions			
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

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



- 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)

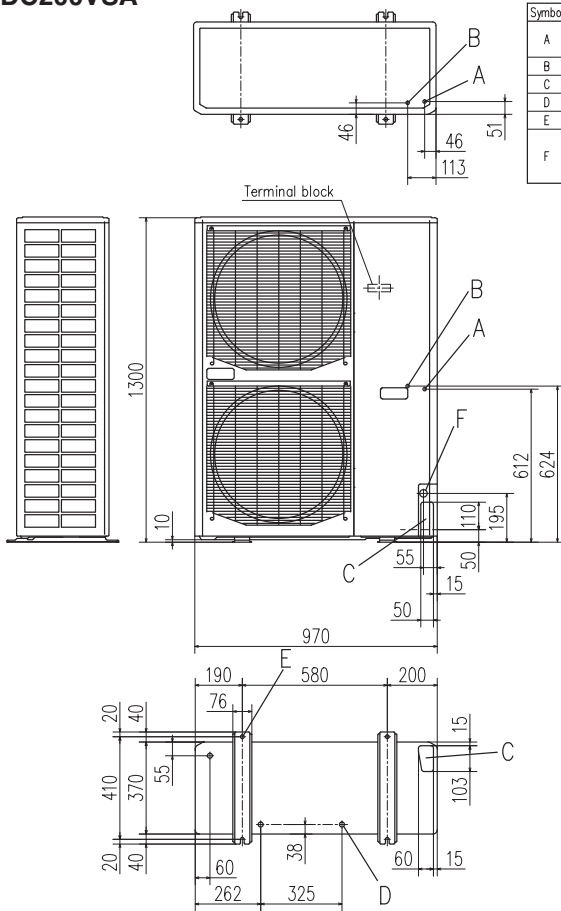
**FDC100VNA, 125VNA, 140VNA  
100VSA, 125VSA, 140VSA**



- 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.

# OUTDOOR UNIT DIMENSIONS (unit:mm)

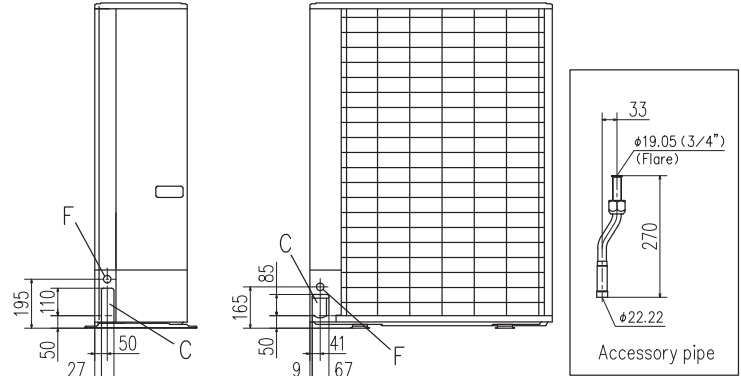
## FDC200VSA



Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	φ19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	φ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ20×3places
E	Anchor bolt hole	M10×4places
F	Cable draw-out hole	φ30 (front) φ30 (side) φ30 (back)

### Notes

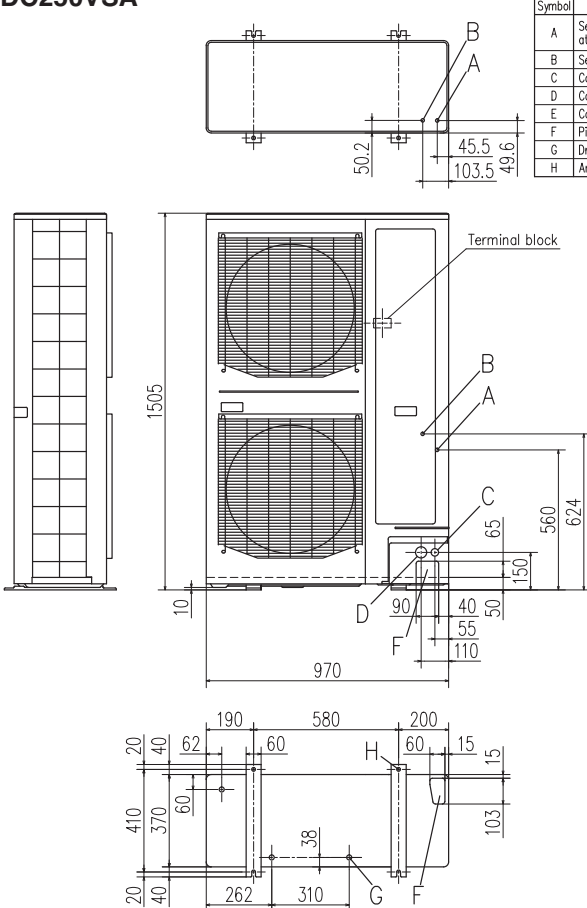
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
- (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)
- (8) Regarding attaching the pipe of accessories, refer to an attached installation manual.



Unit:mm

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

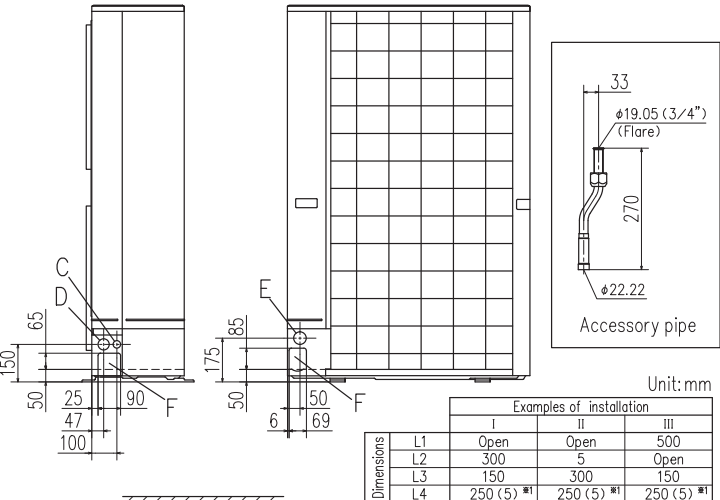
## FDC250VSA



Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	φ19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	φ12.7 (1/2") (Flare)
C	Cable draw-out hole (front side)	φ30×2places
D	Cable draw-out hole (front side)	φ45×2places
E	Cable draw-out hole (back)	φ50
F	Pipe/cable draw-out hole	4places
G	Drain discharge hole	φ20×3places
H	Anchor bolt hole	M10×4places

### 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)
- (8) Regarding attaching the pipe of accessories, refer to an attached installation manual.



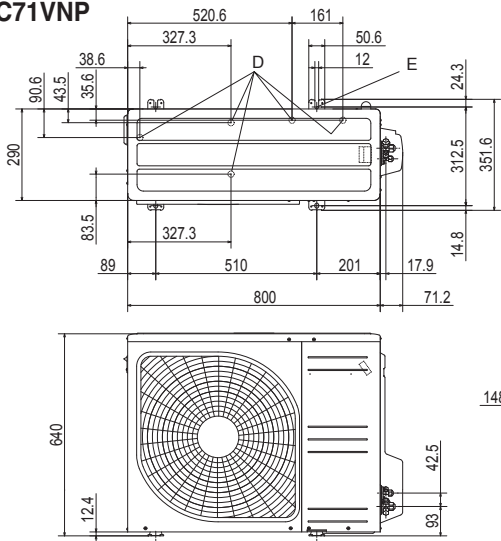
Unit:mm

Examples of installation				
	I	II	III	
Dimensions	L1	Open	Open	500
	L2	300	5	Open
	L3	150	300	150
	L4	250 (5) *1	250 (5) *1	250 (5) *1

\*1 At the time of the installation at ( ) dimension, Secure space of 250mm in lateral (L4) by unit movement at the time of the exchange work of the compressor.

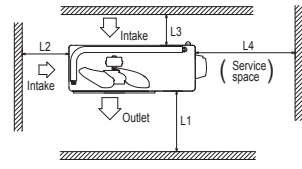


### FDC71VNP



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 $\phi 20 \times 5$ places
E	Anchor bolt hole M10 $\times 4$ places

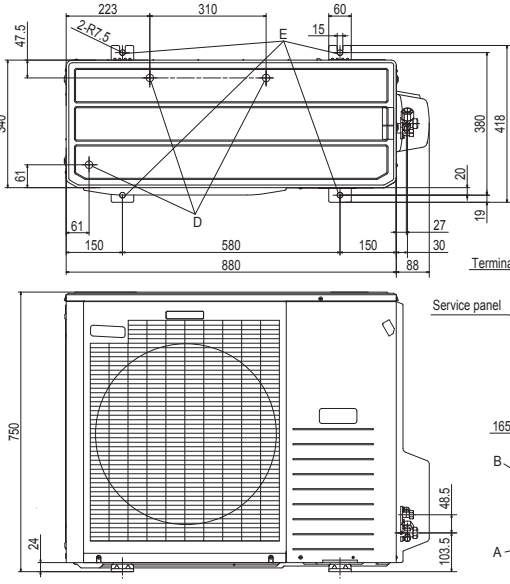
- Notes
- (1) It must not be surrounded by walls on the four sides.
  - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
  - (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant 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 panel.



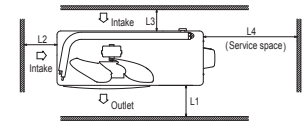
Minimum installation space

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

### FDC90VNP1



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

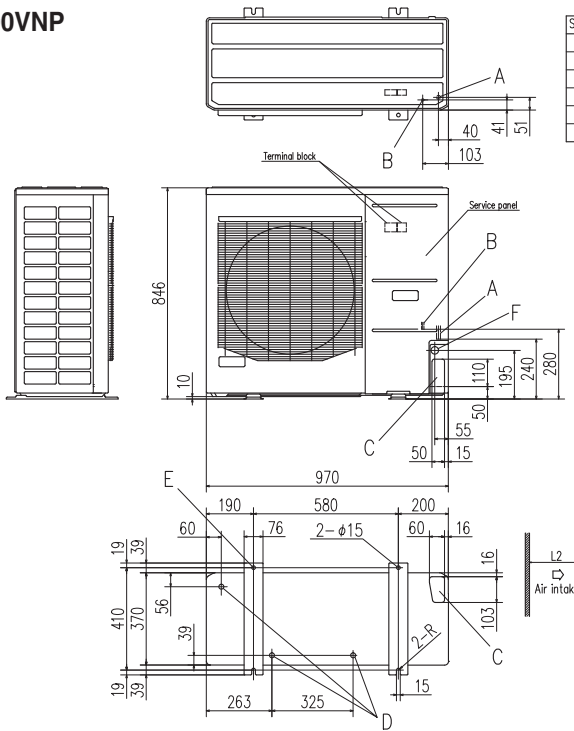


Minimum installation space

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

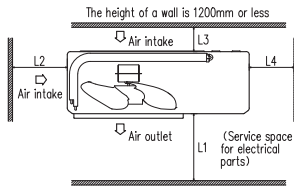
Symbol	Content
A	Service valve connection (gas side) $\phi 15.88(5/8")$ (Flare)
B	Service valve connection (liquid side) $\phi 9.52(3/8")$ (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 3$ places
E	Anchor bolt hole M10 $\times 4$ places

### 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 $\phi 20 \times 3$ places
E	Anchor bolt hole M10 $\times 4$ places
F	Cable draw-out hole $\phi 30 \times 3$ places

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



Minimum installation space

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

Unit: mm

# ENERGY EFFICIENT AND ENVIRONMENTALLY CONSCIOUS

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.

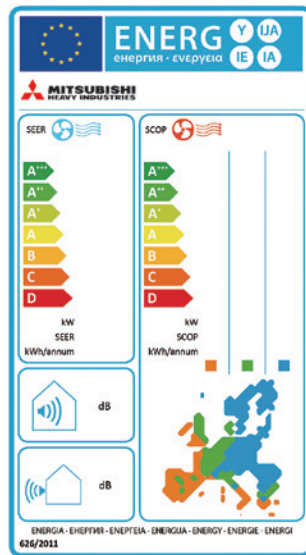
Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

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	
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.8	5.0/4.1	5.6/4.7	7.1/5.8	10.0/11.2	10.0/11.2	7.1/5.8	10.0/11.2	10.0/11.2	
Annual electricity consumption (cooling/heating)	kWh/a	170/1197	226/1246	238/1317	435/1870	594/3626	594/3626	431/1872	592/3774	592/3774	
Refrigerant (R410A)	GWP charge kg/TCO <sub>2</sub> e	1975					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	FDC40ZSX-S	FDC50ZSX-S	
Outdoor unit		FDC100VNA	FDC100VSA	FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP	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+	A++/A+	
SEER		6.78	6.78	6.89	6.89	6.14	6.78	6.78	6.78	6.93	6.49	
SCOP (Average climate)		4.52	4.52	4.47	4.47	4.27	4.12	4.53	4.53	4.37	4.30	
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	7.1/5.7	9.0/8.1	10.0/8.1	10.0/8.1	4.0/4.0	5.0/4.3	
Annual electricity consumption (cooling/heating)	kWh/a	516/2631	516/2631	508/2662	508/2662	405/1870	465/2756	517/2505	517/2505	202/1281	270/1402	
Refrigerant (R410A)	GWP charge kg/TCO <sub>2</sub> e	1975					1.6/3.341		2.1/4.385		2.55/5.324	1.5/3.132
Designated heating season		Average										

Indoor unit		FDC60VG	FDC40VGx2	FDC50VGx2	FDC50VGx2	FDC50VGx2	FDC50VGx2	FDC50VGx2	FDC50VGx2	FDC50VGx2	FDC50VGx2
Outdoor unit		SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VNX	FDC100VNX	FDC100VSA	FDC71VNX	FDC100VNX	FDC100VNX	FDC100VNX
Energy class (cooling/heating)		A++/A+	A/A+	A/A	A/A	A+/A+	A+/A+	A/A	A/A+	A/A+	A/A+
SEER		6.39	5.50	5.56	5.56	6.00	6.00	5.24	5.22	5.22	5.19
SCOP (Average climate)		4.09	4.05	3.87	3.87	4.38	4.38	3.90	4.10	4.10	4.10
Pdesign (cooling/heating (@-10°C))	kW	5.6/5.4	7.1/6.0	10.0/10.8	10.0/10.8	10.0/8.4	10.0/8.4	7.1/7.0	10.0/13.0	10.0/13.0	10.0/13.0
Annual electricity consumption (cooling/heating)	kWh/a	307/1848	453/2077	630/3910	630/3910	584/2682	584/2682	475/2513	670/4437	670/4437	675/4441
Refrigerant (R410A)	GWP charge kg/TCO <sub>2</sub> e	1975					3.8/7.934		2.95/6.160		4.5/9.396
Designated heating season		Average									

Indoor unit		FDU100VF2	FDU100VF2	FDU1VF1	FDU100VF2	FDU100VF2	FDM40VF	FDM50VF	FDM60VF	FDM71VF1	
Outdoor unit		FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A++/A	A++/A+	A+/A+	A+/A+	A++/A+	A/A	
SEER		6.11	6.11	5.73	6.56	6.36	6.01	5.68	6.42	5.24	
SCOP (Average climate)		4.19	4.19	4.00	3.98	4.13	4.15	4.36	4.37	3.90	
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.1/5.7	9.0/8.1	10.0/8.1	4.0/3.5	5.0/4.3	5.6/5.4	7.1/7.0	
Annual electricity consumption (cooling/heating)	kWh/a	573/2843	573/2843	434/1995	480/2848	551/2746	233/1182	309/1382	306/1731	475/2513	
Refrigerant (R410A)	GWP charge kg/TCO <sub>2</sub> e	1975					2.55/5.324		1.5/3.132		2.95/6.160
Designated heating season		Average									

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

\* SEER/SCOP are based on EN14825:2016 and Commission regulation(EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".

\* 'tonne(s) of CO<sub>2</sub> equivalent' means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

Indoor unit	FDM100VF2	FDM100VF2	FDM40VFx2	FDM50VFx2	FDM50VFx2	FDM100VF2	FDM100VF2	FDM50VFx2	FDM50VFx2
Outdoor unit	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	FDC100VNA	FDC100VSA
Energy class (cooling/heating)	A/A+	A/A+	A+/A+	A/A	A/A	A+/A+	A+/A+	A/A	A/A
SEER	5.22	5.19	5.61	5.14	5.11	6.11	6.11	5.50	5.50
SCOP (Average climate)	4.10	4.10	4.05	3.88	3.87	4.19	4.19	3.94	3.94
Pdesign (cooling/heating (@-10°C))	kW	10.0/13.0	10.0/13.0	7.1/7.0	10.0/10.0	10.0/10.0	10.0/8.5	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)	kWh/a	670/4437	675/4441	444/2422	681/3611	685/3614	573/2843	573/2843	637/3022
Refrigerant (R410A)	GWP	1975							
	charge kg/TCO <sub>2</sub> e	4.5/9.396				2.95/6.160		4.5/9.396	
Designated heating season	Average								

Indoor unit	FDM71VF1	FDM100VF2	FDM100VF2	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK100ZR-S	SRK100ZR-S	SRK100ZR-S	FDE40VG	FDE50VG
Outdoor unit	FDC71VNP	FDC90VNP1	FDC100VNP	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	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+	A+/A+
SEER	5.73	6.56	6.36	6.11	6.11	6.26	6.26	6.60	6.46	6.10
SCOP (Average climate)	4.00	3.98	4.13	4.16	4.16	4.33	4.33	4.40	3.93	3.92
Pdesign (cooling/heating (@-10°C))	kW	7.1/5.7	9.0/8.1	10.0/8.1	10.0/10.4	10.0/10.4	10.0/8.5	10.0/8.5	10.0/7.2	4.0/3.0
Annual electricity consumption (cooling/heating)	kWh/a	434/1995	480/2848	551/2746	574/3504	574/3504	560/2750	560/2750	531/2289	217/1069
Refrigerant (R410A)	GWP	1975								
	charge kg/TCO <sub>2</sub> e	1.6/3.341	2.1/4.385	2.55/5.324	4.5/9.396		3.8/7.934		2.55/5.324	1.5/3.132
Designated heating season	Average									

Indoor unit	FDE60VG	FDE71VG	FDE100VG	FDE100VG	FDE40VGx2	FDE50VGx2	FDE50VGx2	FDE100VG	FDE100VG	
Outdoor unit	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	
Energy class (cooling/heating)	A+/A+	B/A+	A+/A+	A+/A+	A/A+	A/A	A/A	A+/A+	A+/A+	
SEER	6.72	4.87	5.89	5.84	5.26	5.53	5.49	6.35	6.35	
SCOP (Average climate)	4.08	4.00	4.18	4.17	4.09	3.94	3.94	4.31	4.31	
Pdesign (cooling/heating (@-10°C))	kW	5.6/4.3	7.1/6.0	10.0/11.2	10.0/11.2	7.1/6.0	10.0/10.8	10.0/10.8	10.0/8.5	
Annual electricity consumption (cooling/heating)	kWh/a	292/1475	511/2102	595/3754	599/3758	473/2054	634/3836	638/3840	552/2762	
Refrigerant (R410A)	GWP	1975								
	charge kg/TCO <sub>2</sub> e	1.5/3.132	2.95/6.160	4.5/9.396		2.95/6.160	4.5/9.396		3.8/7.934	
Designated heating season	Average									

Indoor unit	FDE50VGx2	FDE50VGx2	FDE71VNP	FDE100VG	FDE100VG	PDF71VD1	PDF100VD2	PDF100VD2	PDF100VD2	
Outdoor unit	FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	
Energy class (cooling/heating)	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	B/A	A/A	A/A	A+/A+	
SEER	5.71	5.71	6.35	6.63	6.73	4.80	5.20	5.17	5.70	
SCOP (Average climate)	4.10	4.10	4.22	4.25	4.44	3.81	3.80	3.80	4.00	
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.1/5.8	9.0/8.2	10.0/8.1	7.1/6.7	10.0/13.0	10.0/13.0	
Annual electricity consumption (cooling/heating)	kWh/a	613/2904	613/2904	392/1925	475/2704	521/2556	518/2464	673/4792	678/4795	
Refrigerant (R410A)	GWP	1975								
	charge kg/TCO <sub>2</sub> e	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324	2.95/6.160	4.5/9.396	4.5/9.396	3.8/7.934
Designated heating season	Average									

Indoor unit	PDF100VD2	PDF71VD1	PDF100VD2	PDF100VD2	
Outdoor unit	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP	
Energy class (cooling/heating)	A+/A+	A/A	A+/A+	A/A	
SEER	5.70	5.25	5.69	5.41	
SCOP (Average climate)	4.00	3.91	4.01	3.94	
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	7.1/5.5	9.0/8.1	
Annual electricity consumption (cooling/heating)	kWh/a	614/2978	474/1972	554/2825	
Refrigerant (R410A)	GWP	1975			
	charge kg/TCO <sub>2</sub> e	3.8/7.934	1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season	Average				

### SEER and SCOP is defined in European regulations listed below.

No.2016/2281: requirement for air-heating products, cooling products, high temperature process chillers and fan coil units. 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;

Indoor unit	FDT125VG	FDT140VG	FDT125VG	FDT140VG	FDT125VG	FDT140VG	FDT125VG	FDT140VG	FDU125VF
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNX
SEER	5.77	5.66	5.94	5.82	6.52	6.16	6.52	6.16	5.34
SCOP (Average climate)	4.08	4.04	4.03	3.99	4.38	4.28	4.38	4.28	3.87

Indoor unit	FDU140VF	FDU125VF	FDU140VF	FDU125VF	FDU140VF	FDU125VF	FDU140VF	FDU200VG	FDU250VG
Outdoor unit	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA
SEER	5.22	5.49	5.36	5.26	5.08	5.26	5.08	5.06	4.82
SCOP (Average climate)	3.85	3.91	3.88	4.13	4.01	4.13	4.01	3.52	3.51

Indoor unit	FDM125VF	FDM140VF	FDM125VF	FDM140VF	FDM125VF	FDM140VF	FDM125VF	FDM140VF	FDE125VG
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNX
SEER	5.34	5.22	5.49	5.36	5.26	5.08	5.26	5.08	5.56
SCOP (Average climate)	3.87	3.85	3.91	3.88	4.13	4.01	4.13	4.01	3.71

Indoor unit	FDE140VG	FDE125VG	FDE140VG	FDE125VG	FDE140VG	FDE125VG	FDE140VG	PDF125VD	PDF140VD
Outdoor unit	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNX	FDC140VNX
SEER	5.41	5.74	5.56	6.03	5.76	6.03	5.76	4.97	4.80
SCOP (Average climate)	3.66	3.66	3.62	4.30	4.15	4.30	4.15	3.60	3.56

Indoor unit	PDF125VD	PDF140VD	PDF125VD	PDF140VD	PDF125VD	PDF140VD
Outdoor unit	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	5.11	4.94	5.36	5.09	5.36	5.03
SCOP (Average climate)	3.60	3.60	3.96	4.16	3.96	4.16

## 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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Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001



Certificate Number: JQA-0709



Certificate: 44 100 980813



Certificate Number: 4333-2007-AQ-RIGC-RvA

Certified ISO 14001



ISO 14001  
Certificate Number: YKA4005636



Certificate: 04 104 980813



Certificate number: 02117E1016FRM

