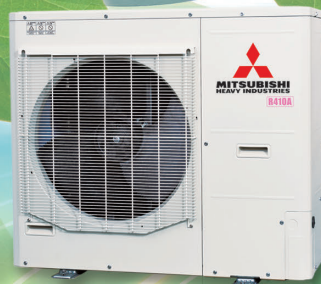


# High Performance Air-Conditioning 2018



CE

50/60Hz

18P01E

**FD** series

Inverter Packaged Air-Conditioners







## High Performance Air-Conditioning FDseries

The PAC range from Mitsubishi Heavy Industries Thermal systems is ideal for air conditioning offices, shops, restaurants, and bars ... as well as other commercial 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

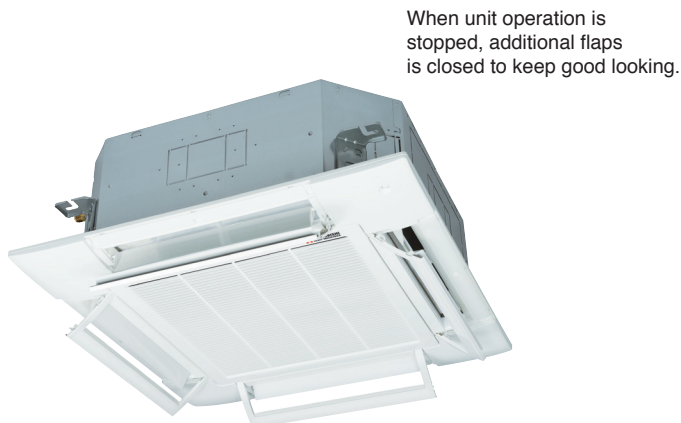
Quiet operation

## Draft Prevention Panel (Option)

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

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

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



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

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

## Motion Sensor (Option)

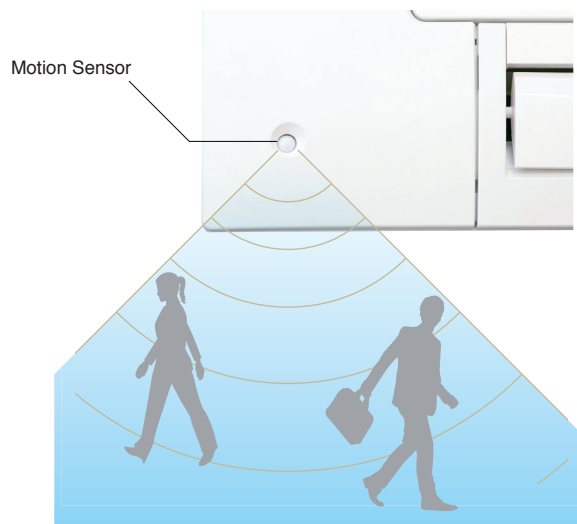
Two energy saving control by detecting human moving

### Power Control

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

### Auto-off

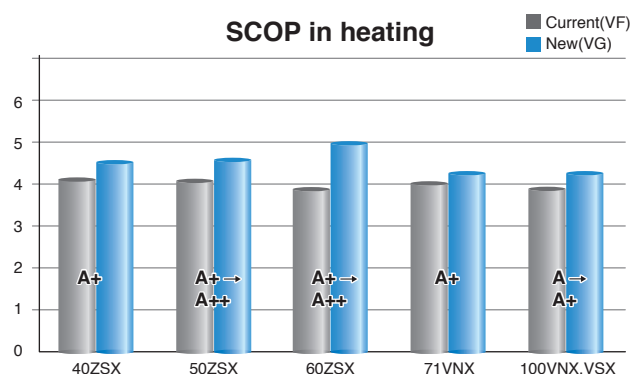
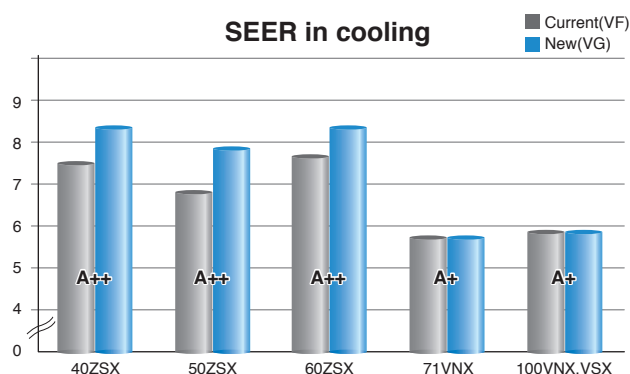
Unit will go off automatically when no activity is detected for 12 hours.





## High energy efficiency with new technology

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

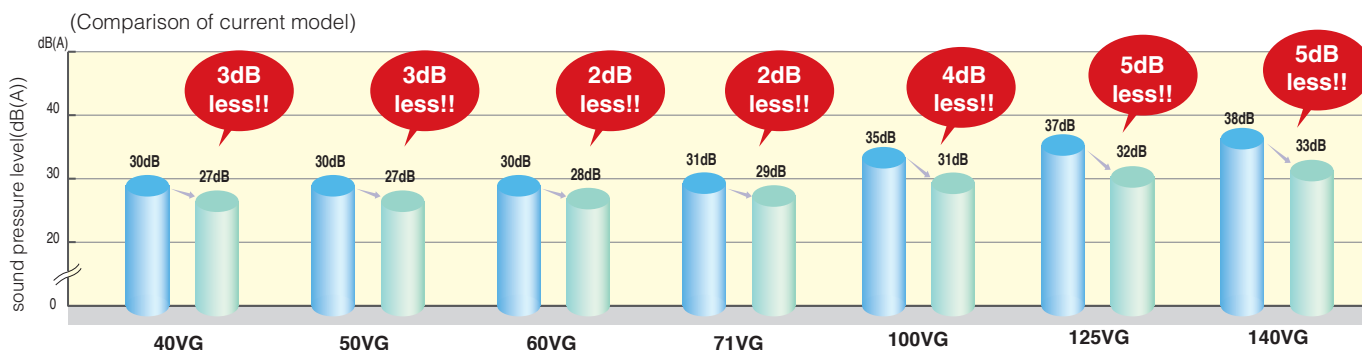


● SEER and SCOP is defined in European regulations. Please refer to P70.

## More quiet noise

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

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

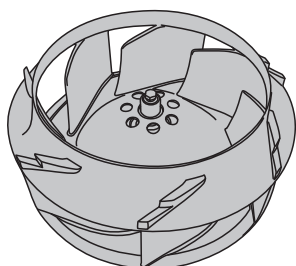


## Improve the aerodynamic performance of the unit

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

● New design turbo fan

● Fan guard (standard equipment)







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

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

It is now a global design award with participation from numerous Japanese and international companies and organizations.

The "G Mark", the symbol of the Good Design Award, is known widely as a symbol of excellent design.

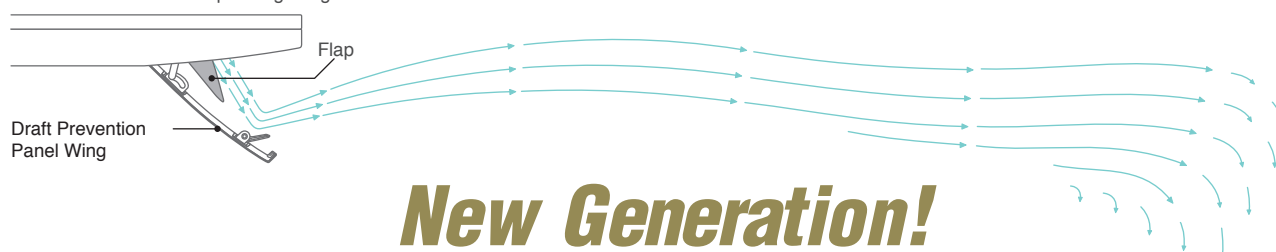
User



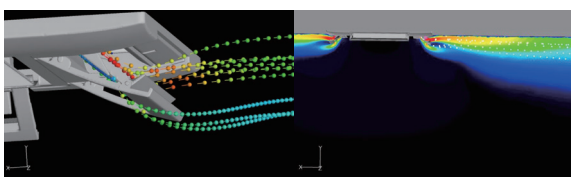
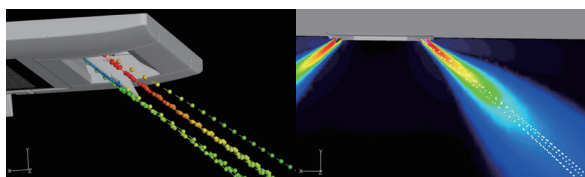
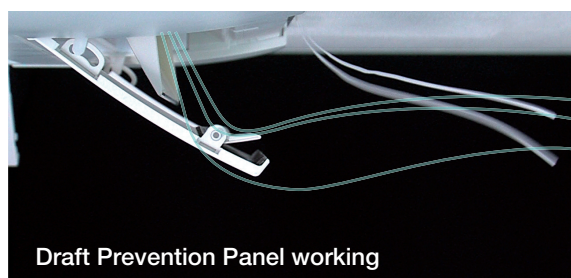
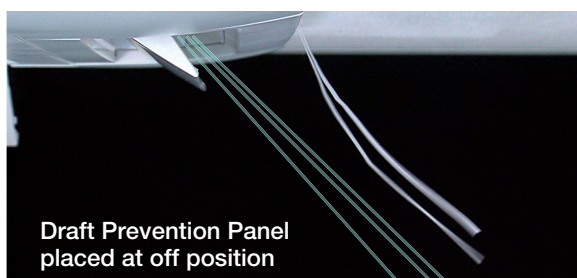
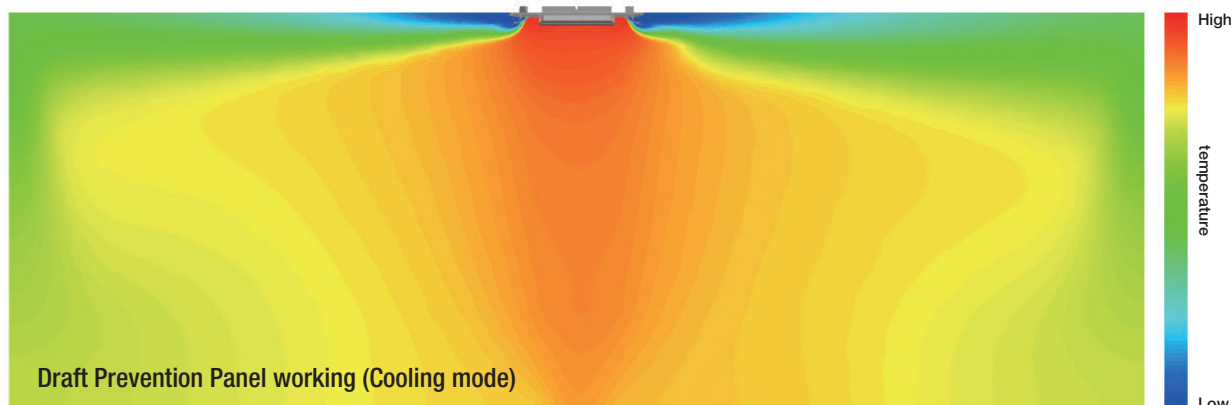
## Draft Prevention Panel

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

Draft Prevention Panel Operating Image



## *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.



# Motion sensor

Energy saving control by detecting human moving

User



## 3Step 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.

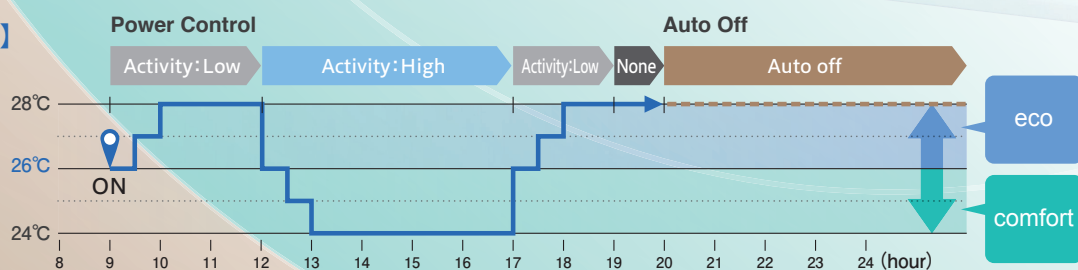
### Auto Off

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

[temperature]

26°C

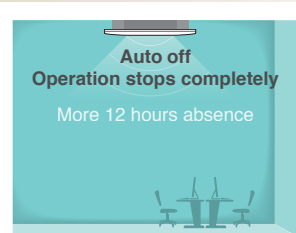
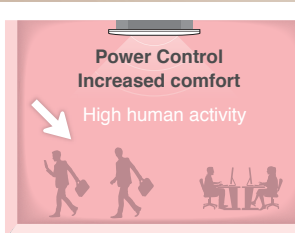
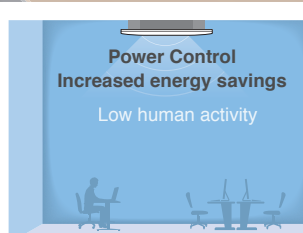
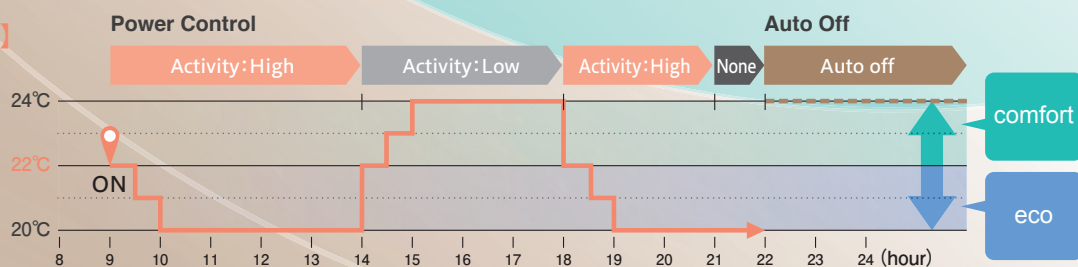
in cooling



[temperature]

22°C

in heating



Operation mode and Control of Motion sensor

eco operation  
comfort operation

Operation mode

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

※1 Set temperature is revised maximum 2°C at Cooling/Heating mode by detecting heat volume movement.

※2 Absence for 1 hour ⇒ Operation stops ("Stand-by") More 12 hours absence ⇒ Operation stops completely

# Serviceability & workability

Easy and quick installation and maintenance

Builder Maintenance



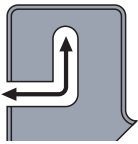
Quick positioning !

## Indoor unit is easily positioned and installed

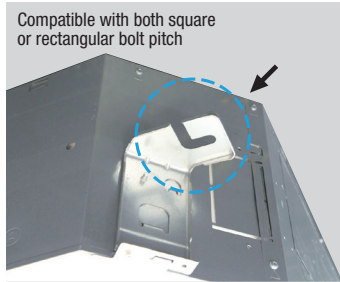
### 1 Adjustable easier positioning of unit by new slits

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

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

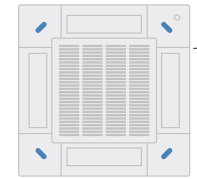


Compatible with both square or rectangular bolt pitch

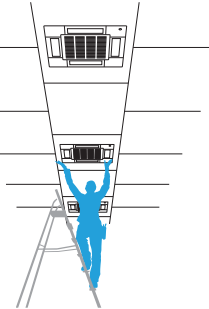


### 2 New slit in panel allows easier installation on site.

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



4 long slits are available.

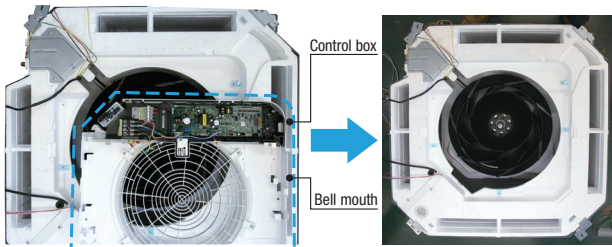


## Quick installation and maintenance

### 1 Easy access to component part for easy maintenance.

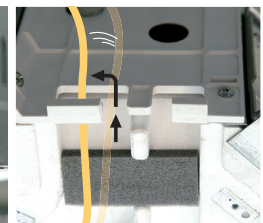
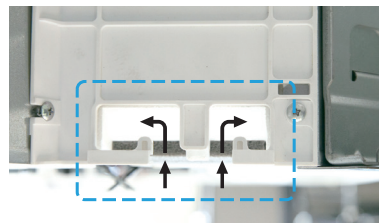
1 The control box and bell mouth can be removed together.

2 Easy access to impeller and fan motor.



### 2 New shape of path of wiring

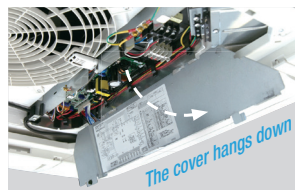
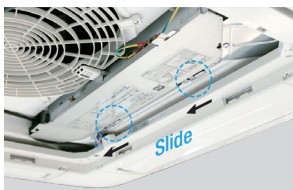
New shape of path gives easy wiring work for installation.



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

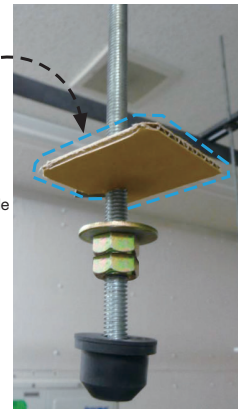
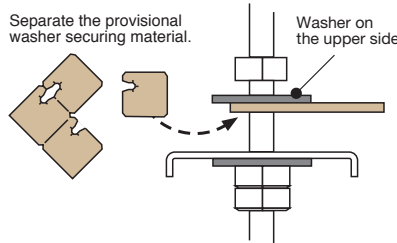
It is possible to loose and slide open the cover without remove of the screws.

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



### 4 More safe installation by stopper of washer

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





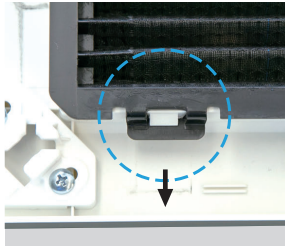


For smooth  
and easy  
working

## Good help for installation and maintenance

### 1 Easy and flexible hook to remove the filter

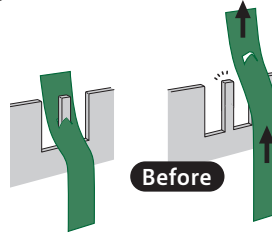
Hook of soft material helps to remove the filter without dust spreading.



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

### 2 Securely fix the corner lid by strap

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



Before

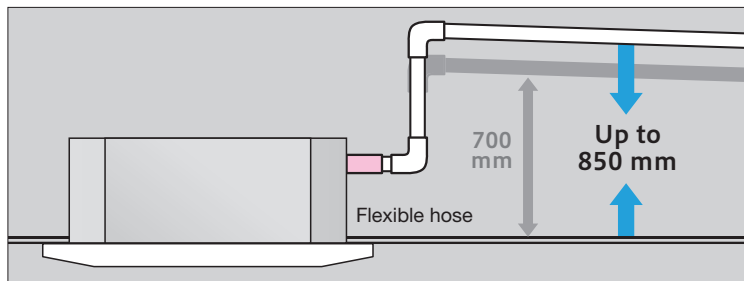


Easy to hook  
but  
not easy to loose

After

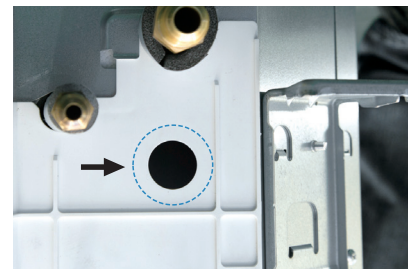
### 3 Drain-up-lift increases up to 850 mm (previous:700mm)

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



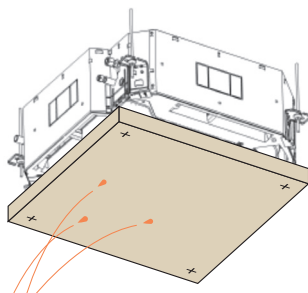
### 4 New port to check drain water flow

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



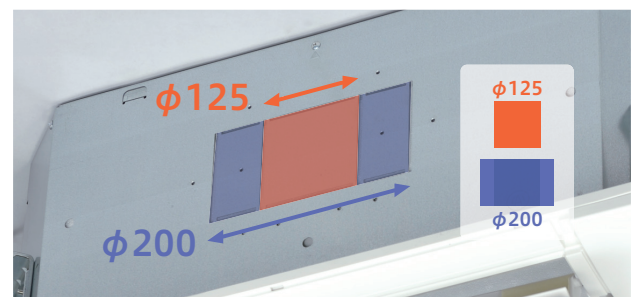
### 5 Re-use of packages during construction work

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



### 6 More flexible outlet for ducting

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



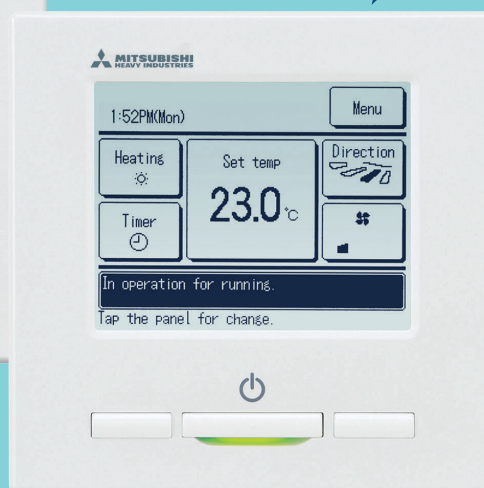


## *Simple use with advanced settings REMOTE CONTROL*

Easy touch and Easy view with full dot Liquid Crystal display



RC-EX1A



RC-EX3

**Bright screen**

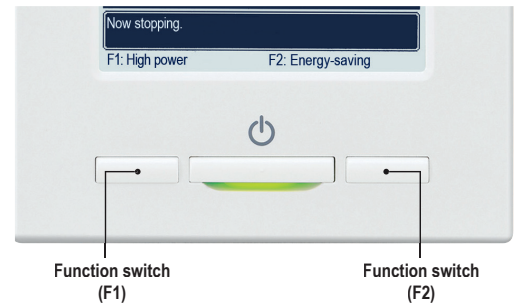


## New functions

### Function Switch

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

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



#### 1 High Power Mode

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



#### 2 Energy Saving Mode

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



#### 3 Quiet Mode

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



#### 4 Home Leave Mode

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



#### 5 Favorite Mode

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

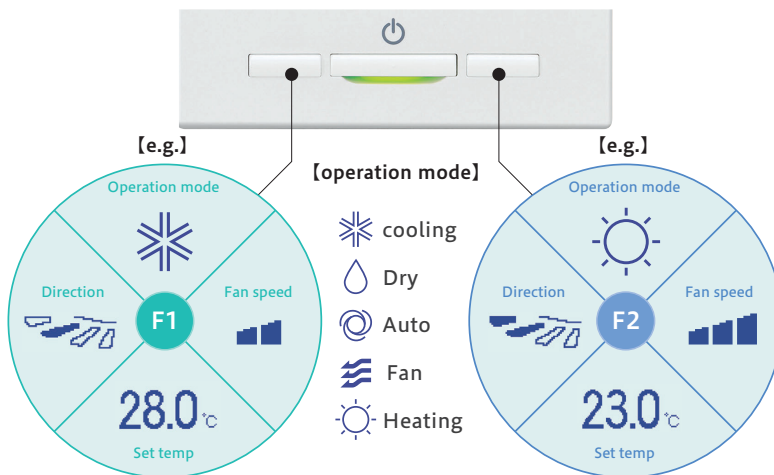


#### 6 Filter Sign

Announces the due time for cleaning the air filter.

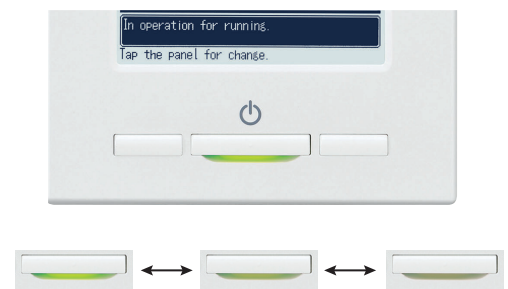
### Favorite Mode

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



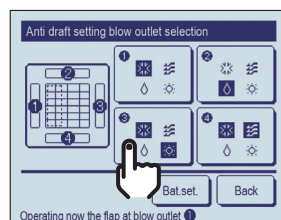
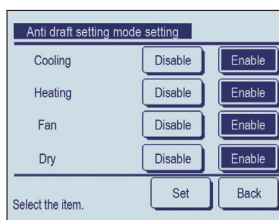
### Adjusting Brightness of the Operation lamp

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



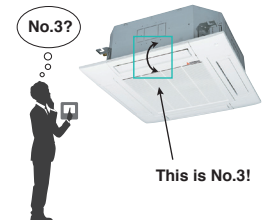
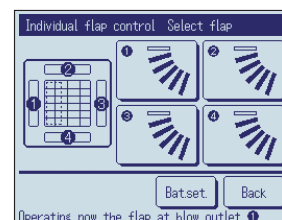
### Draft prevention setting(only FDT series)

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



### Easy modification of Air Flow

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



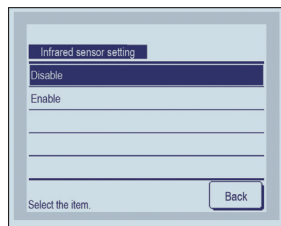
## Motion sensor control

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

- 1 Select Enable / Disable  
Motion sensor control



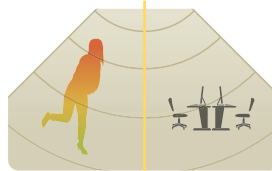
Enable / Disable



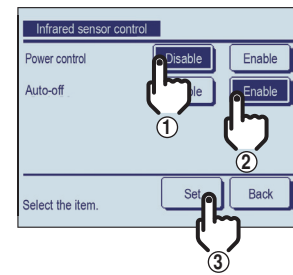
Select [Enable] / [Disable] for the motion sensor of the indoor unit connected to the R/C.

- 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable / Disable



## Backup Control

Control restricted to two indoor units (two groups)

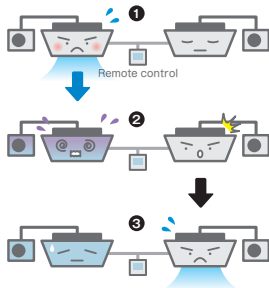


### Fault backup control



#### Keep back up all the time!

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

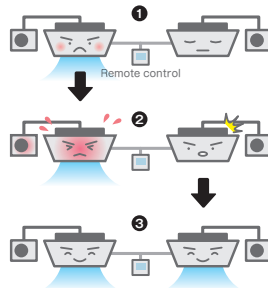


### Capacity backup control



#### Maintains users' comfort!

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

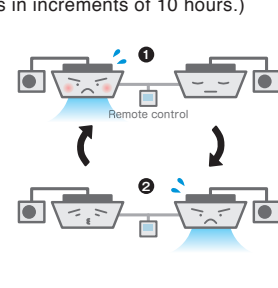


### Rotational operation control



#### Energy saving and longer life!

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



## Additional functions of External Input / Output

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



Remote surveillance system



Card key on-off

### External Input

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

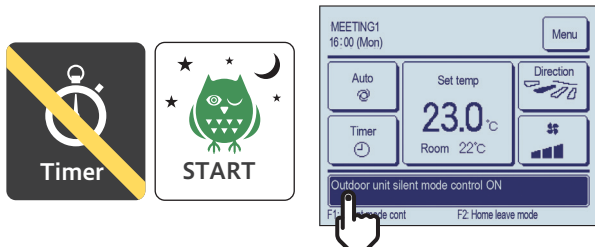
### External Output

CNT (New)	
2 Output	- Operation - Heating - Compressor ON (thermo-ON)
3 Output	- Inspection
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



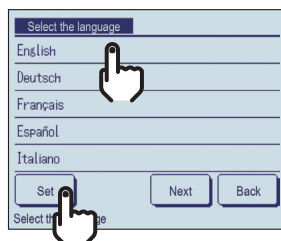
## Silent mode control

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.



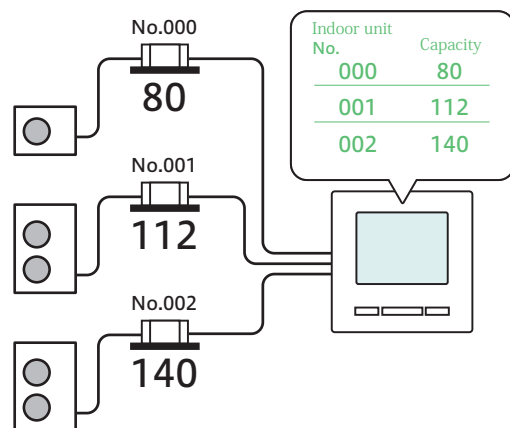
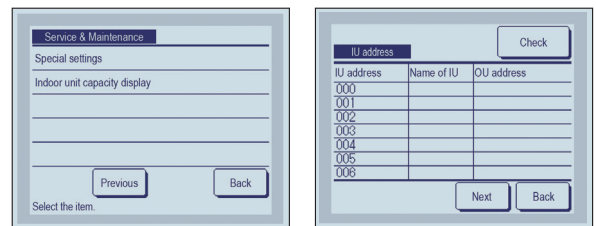
## Language Switching

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



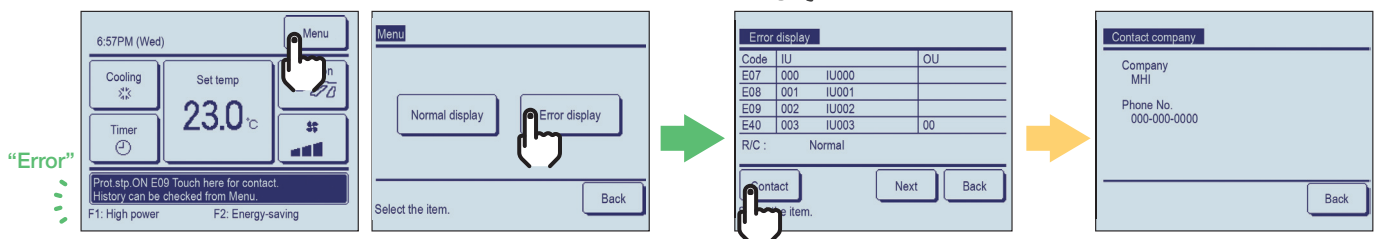
## Indoor unit capacity display

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



## Contact company & Error display

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



## New Wireless Kit & New Wireless Remote Controller

### Line-up

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

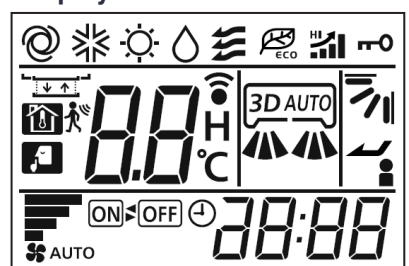
### Function added

- 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)**



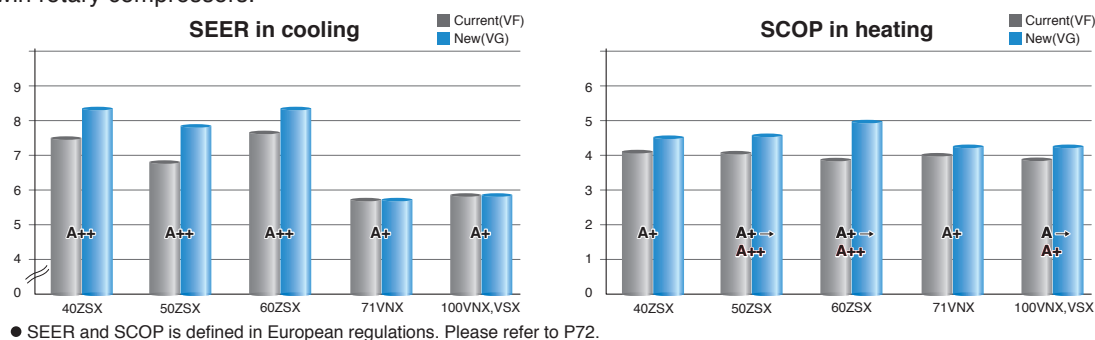
**FDC71VNX (3.0HP)**



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

## High efficiency (comparison of FDT series)

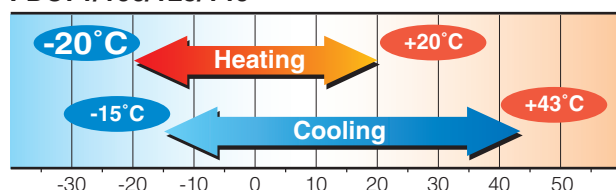
Hyper inverter outdoor units high efficiency levels are achieved by our latest technologies, such as high efficient twin rotary compressors.



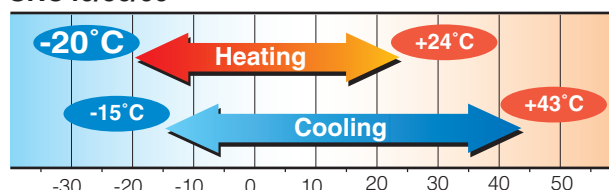
## Wide Range of Operation

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)

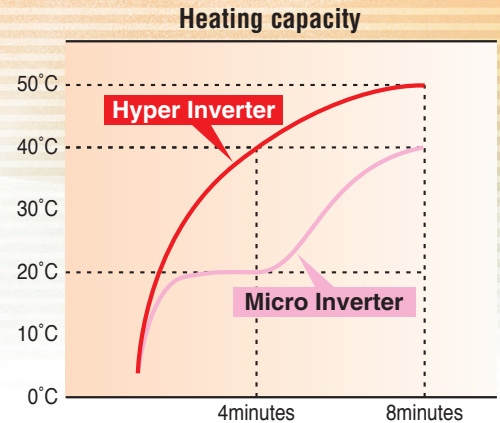
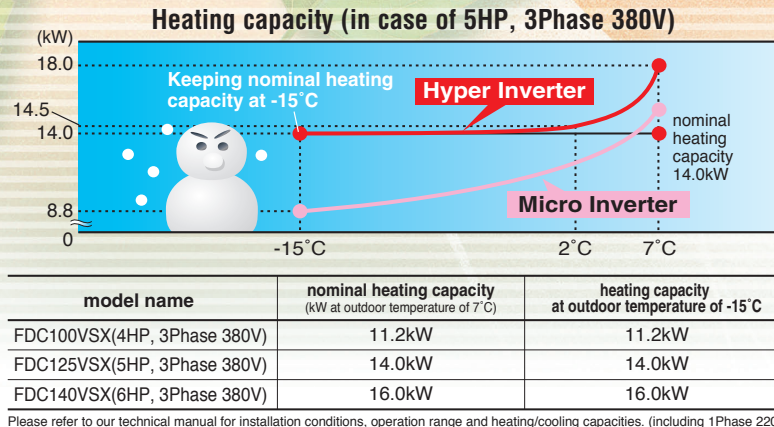
	Hyper Inverter	Micro Inverter
FDC100VSX(4HP, 3Phase 380V)	<b>16.0</b>	12.5
FDC125VSX(5HP, 3Phase 380V)	<b>18.0</b>	16.0
FDC140VSX(6HP, 3Phase 380V)	<b>20.0</b>	16.5



## Leading powerful heating capacity in the industry

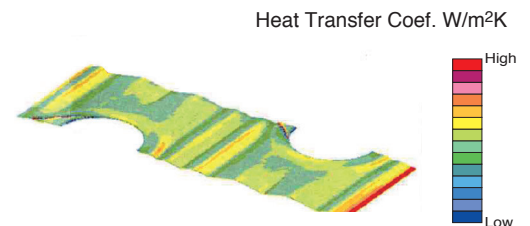
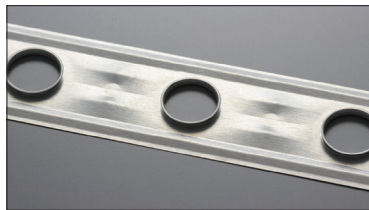
Thanks to optimization of refrigeration control with use of electric expansion valve and development of twin rotary compressors, max heating capacity has been increased.  
Hyper Inverter series can reach the set temperature very quickly, keeping nominal heating capacity when outdoor temperature is  $-15^{\circ}\text{C}$ . 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.



## 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.

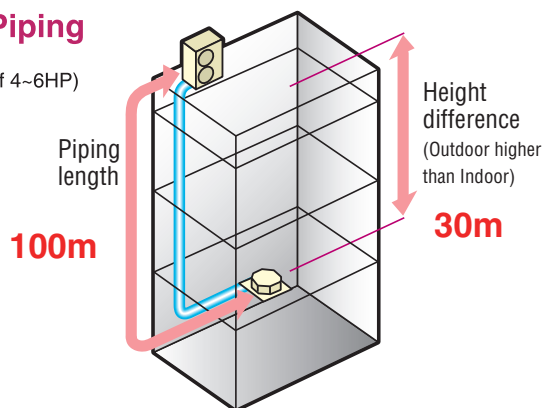


## Installation workability

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

### Long Piping

(in case of 4~6HP)



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

### Refrigerant precharged piping length extending to 30m

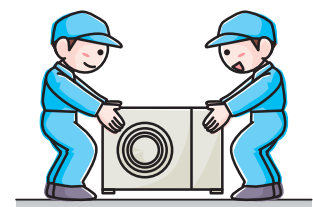
Refrigerant precharged piping length extends up to 30m. This eliminates the need to add refrigerant on site, which sets it free from trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly.

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

### Easy Transportation & Installation

Fits into elevators

Easy installation

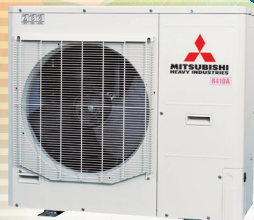


# Micro Inverter

## Line up

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

**NEW**



**FDC100VNA/VSA (4.0HP)**  
**FDC125VNA/VSA (5.0HP)**  
**FDC140VNA/VSA (6.0HP)**

**Blue Fin**



**FDC200VSA (8.0HP)**

**Blue Fin**



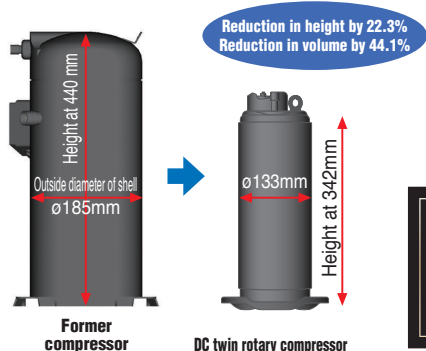
**FDC250VSA (10.0HP)**

**Blue Fin**

## 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.



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



## Better partial load efficiency



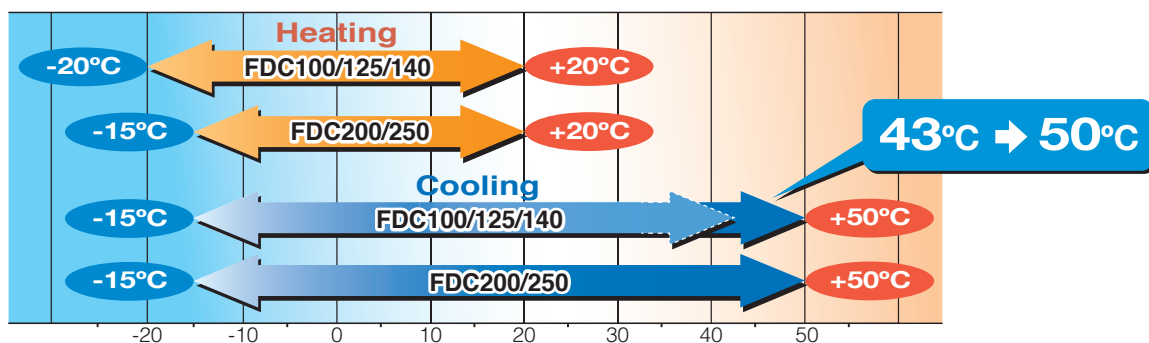
Distributed winding motor



Centralized winding motor

## Wide range of operation

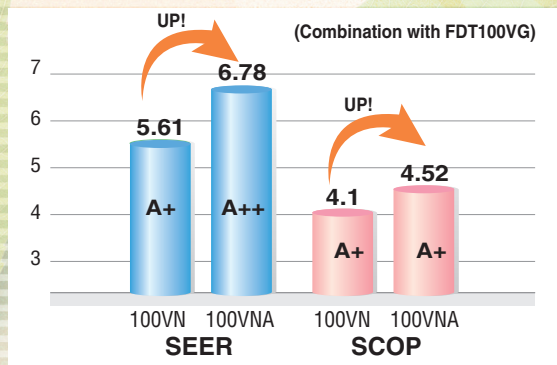
Our new advanced technology has expanded the heating and cooling operation range. This permits installation of the units under a low outdoor temperature conditions down to -15°C/-20°C in heating operation and -15°C in cooling operation.





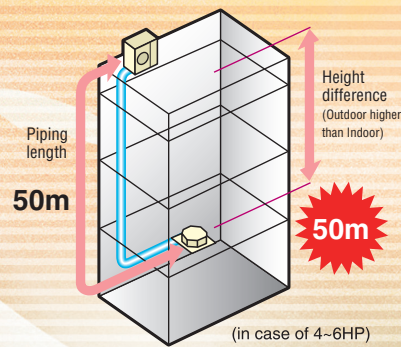
## Higher seasonal efficiency

Seasonal efficiency is improved by use of centralized winding motor.



\* Please refer to P74

## Long Piping Length



The industry's first!

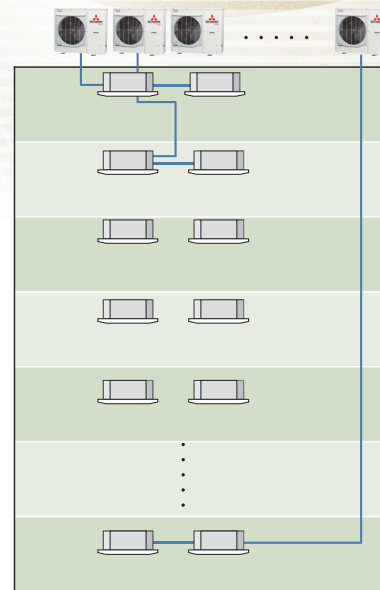
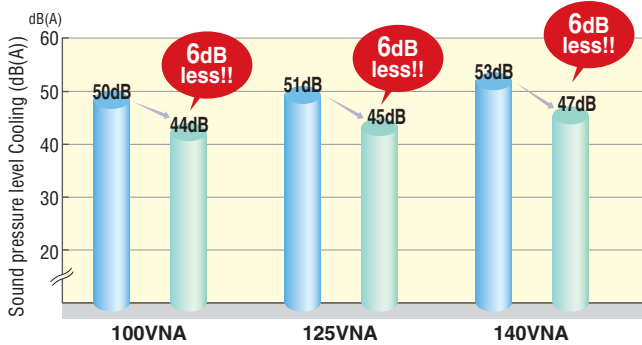
HP	Piping length	Height difference
4~6	50m	50m*
8~10	70m	30m

\*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.

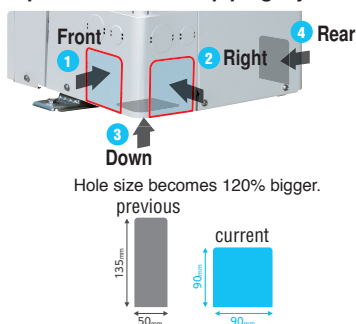
standard silent mode



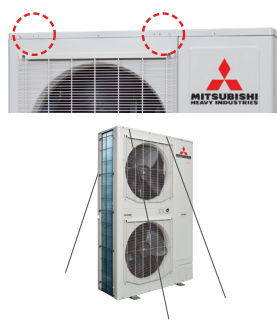
Wider  
variation of  
installation!

## 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

5 → 2

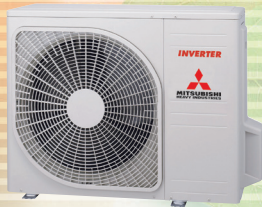


Decreasing number of screws from 5 to 2, installation & service speed is improved.

# Standard Inverter

## Line up

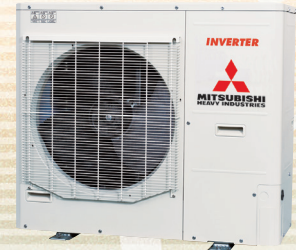
HP	1.5	2	2.5	3	3.5	4	5	6	8	10
Standard Inverter	-	-	-	●	●	●	-	-	-	-



FDC71VNP (3.0HP)



FDC90VNP (3.5HP)

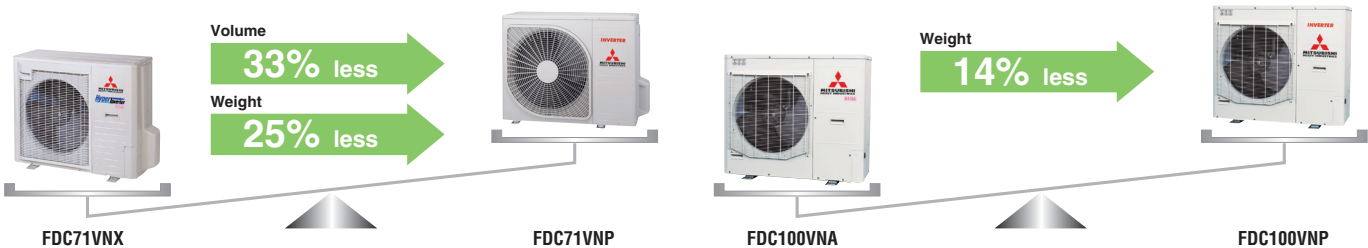


FDC100VNP (4.0HP)

Blue  
Fin

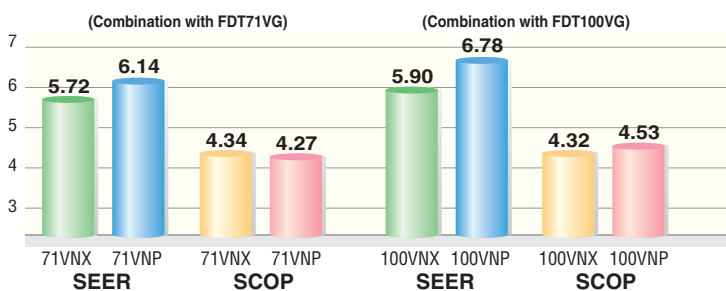
Blue  
Fin

## Compact Design of outdoor units



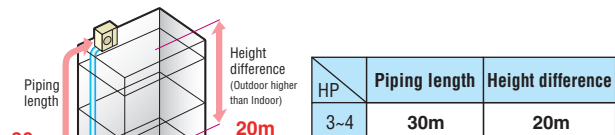
## High SEER & SCOP

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



\* Please refer to P74

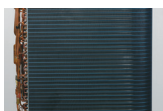
## Installation workability



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.



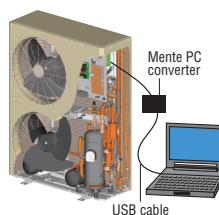
Blue  
Fin

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



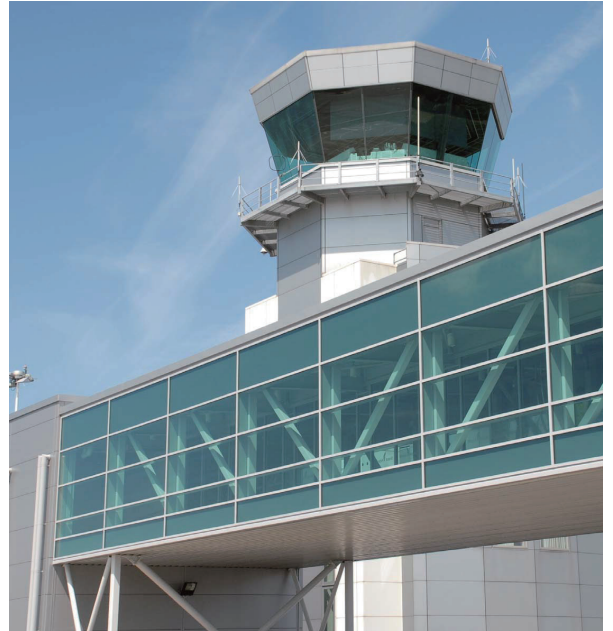


## Case study: Commercial

### 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%






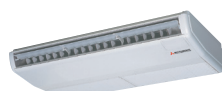



High efficiency climate control from Mitsubishi Heavy Industries Thermal Systems has scored a strike at The Original Bowling Company, the UK's number one ten pin bowling operator. Outdated heating and cooling plant has been replaced with Mitsubishi Heavy Industries Thermal Systems heat pump systems at 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	4way <b>FDT</b> 	Set	1Phase	<b>FDT40ZSXVG</b>	<b>FDT50ZSXVG</b>	<b>FDT60ZSXVG</b>	<b>FDT71VNXVG</b>	<b>FDT100VNXVG</b>
			3Phase					<b>FDT100VSXVG</b>
		Indoor unit		FDT40VG	FDT50VG	FDT60VG	FDT71VG	FDT100VG
		Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
			3Phase					FDC100VSX
	4way compact (600 x 600mm) <b>FDTC</b> 	Set	1Phase	<b>FDTC40ZSXVF</b>	<b>FDTC50ZSXVF</b>	<b>FDTC60ZSXVF</b>		
			Indoor unit		FDTC40VF	FDTC50VF	FDTC60VF	
		Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S		
DUCT CONNECTED	High Static pressure <b>FDU</b> 	Set	1Phase				<b>FDU71VNXVF1</b>	<b>FDU100VNXVF2</b>
			3Phase					<b>FDU100VSXVF2</b>
		Indoor unit					FDU71VF1	FDU100VF2
		Outdoor unit	1Phase				FDC71VNX	FDC100VNX
			3Phase					FDC100VSX
	Low/Middle Static pressure <b>FDUM</b> 	Set	1Phase	<b>FDUM40ZSXVF</b>	<b>FDUM50ZSXVF</b>	<b>FDUM60ZSXVF</b>	<b>FDUM71VNXVF1</b>	<b>FDUM100VNXVF2</b>
			3Phase					<b>FDUM100VSXVF2</b>
		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> 	Set	1Phase					
			3Phase					
		Indoor unit						
		Outdoor unit	1Phase					
			3Phase					
CEILING SUSPENDED	<b>FDE</b> 	Set	1Phase	<b>FDE40ZSXVG</b>	<b>FDE50ZSXVG</b>	<b>FDE60ZSXVG</b>	<b>FDE71VNXVG</b>	<b>FDE100VNXVG</b>
			3Phase					<b>FDE100VSXVG</b>
		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> 	Set	1Phase				<b>FDF71VNXVD1</b>	<b>FDF100VNXVD2</b>
			3Phase					<b>FDF100VSXVD2</b>
		Indoor unit					FDF71VD1	FDF100VD2
		Outdoor unit	1Phase				FDC71VNX	FDC100VNX
			3Phase					FDC100VSX



## Capacity Range (Nominal Cooling Capacity)

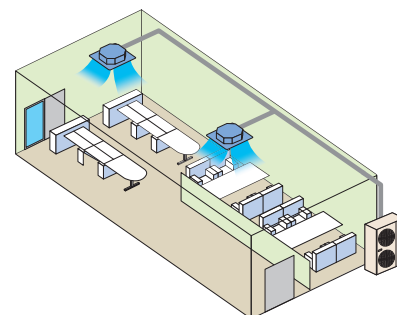
		<div>NEW</div> Micro Inverter					Standard Inverter		
5.0	6.0	4.0	5.0	6.0	8.0	10.0	3.0	3.5	4.0
12.5	14.0	10.0	12.5	14.0	20.0	24.0	7.1	9.0	10.0
42,700	47,800	34,100	42,700	47,800	68,200	81,300	24,200	30,700	34,100
10,750	12,040	8,600	10,750	12,040	17,200	20,640	6,100	7,740	8,600
FDT125VNXVG	FDT140VNXVG	FDT100VNAV	FDT125VNAV	FDT140VNAV			FDT71VNPVG	FDT90VNPVG	FDT100VNP1VG
FDT125VSXVG	FDT140VSXVG	FDT100VSAVG	FDT125VSAVG	FDT140VSAVG					
FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG			FDT71VG	FDT100VG	FDT100VG
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
FDU125VNXVF	FDU140VNXVF	FDU100VNAV2	FDU125VNAV	FDU140VNAV			FDU71VNPVF1	FDU90VNPVF2	FDU100VNP1VF2
FDU125VSXVF	FDU140VSXVF	FDU100VSAVF2	FDU125VSAVF	FDU140VSAVF	FDU200VSAVG	FDU250VSAVG			
FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF	FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA			
FDUM125VNXVF	FDUM140VNXVF	FDUM100VNAV2	FDUM125VNAV	FDUM140VNAV			FDUM71VNPVF1	FDUM90VNPVF2	FDUM100VNP1VF2
FDUM125VSXVF	FDUM140VSXVF	FDUM100VSAVF2	FDUM125VSAVF	FDUM140VSAVF					
FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF			FDUM71VF1	FDUM100VF2	FDUM100VF2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
		SRK100VNAZR							SRK100VNP1ZR
		SRK100VSAZR							
		SRK100ZR-S	Additional Combination!						SRK100ZR-S
		FDC100VNA							FDC100VNP
		FDC100VSA							
FDE125VNXVG	FDE140VNXVG	FDE100VNAV	FDE125VNAV	FDE140VNAV			FDE71VNPVG	FDE90VNPVG	FDE100VNP1VG
FDE125VSXVG	FDE140VSXVG	FDE100VSAVG	FDE125VSAVG	FDE140VSAVG					
FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG			FDE71VG	FDE100VG	FDE100VG
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
FDF125VNXVD	FDF140VNXVD	FDF100VNAV2	FDF125VNAV	FDF140VNAV			FDF71VNPVD1	FDF90VNPVD2	FDF100VNP1VD2
FDF125VSXVD	FDF140VSXVD	FDF100VSAVD2	FDF125VSAVD	FDF140VSAVD					
FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD			FDF71VD1	FDF100VD2	FDF100VD2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP	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.

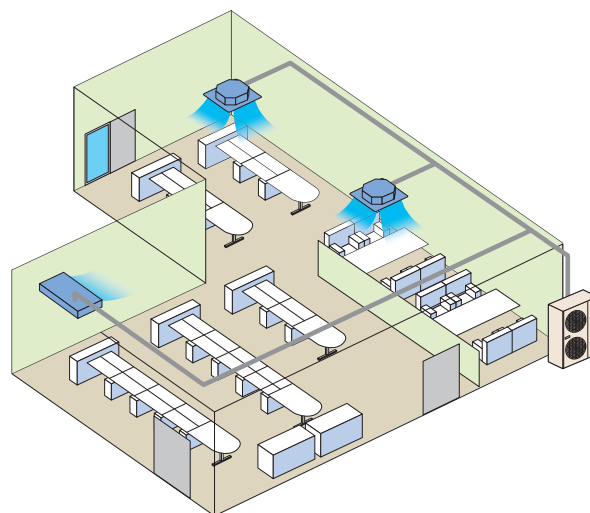


#### Combination of indoor units






Outdoor Unit	Hyper Inverter				Micro Inverter				
									
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VNA FDC100VSA	FDC125VNA FDC125VSA	FDC140VNA FDC140VSA	FDC200VSA	FDC250VSA
<b>Twin</b>	40 + 40	50 + 50	60 + 60	71 + 71	50 + 50	60 + 60	71 + 71	100 + 100	125 + 125
<b>Triple</b>				50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	
<b>Double Twin</b>								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
<b>Twin</b>	40 + 40	50 + 50	60 + 60 50 + 71	71 + 71	50 + 50	60 + 60 50 + 71	71 + 71	100 + 100 71 + 125	125 + 125
<b>Triple</b>				50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	60+60+125 71+71+100
<b>Double Twin</b>								50+50+50+50	60+60+60+60



## Applicable indoor units

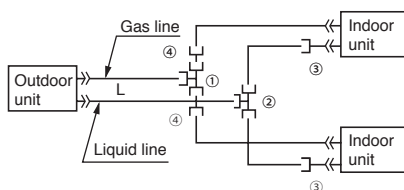
Model		Capacity					
		40	50	60	71	100	125
<b>Twin</b> <b>Triple</b> <b>Double Twin</b> <b>Multi</b> <b>System</b>	4way <b>FDT</b>						
	4way compact (600 x 600mm) <b>FDTc</b>						
	Low/Middle Static pressure <b>FDUM</b>						
	Wall Mounted <b>SRK</b>						
	Ceiling Suspended <b>FDE</b>						
	Floor Standing <b>FDF</b>						
<b>V Multi</b> <b>System</b>	4way <b>FDT</b>						
	Ceiling Suspended <b>FDE</b>						

## Decision of piping specification

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

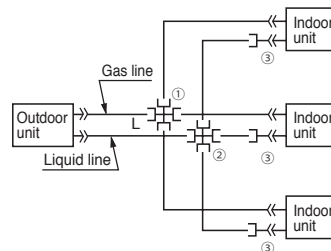
### Twin type

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 2 pieces ID9.52 Flare Joint (for indoor unit side connection)
	FDC100	50+50	① ID15.88	② ID9.52	④ Joint B 2 pieces OD15.88 ID12.7
	FDC125	60+60 50+71	① ID15.88	② ID9.52	
	FDC140	71+71	① ID15.88	② ID9.52	
DIS-WB1G (Two-way branching set)	FDC200	100+100	① ID15.88	② ID9.52	④ Joint C 1 piece OD12.7 ID9.52
		71+125	① ID15.88	② ID9.52	
	FDC250	125+125	① ID25.4	② ID12.7	
DIS-TA1G (Three-way branching set)	FDC140	50+50+50	① ID12.7	② ID9.52	③ Joint A 3 pieces ID9.52 Flare Joint (for indoor unit side connection)
DIS-TB1G (Three-way branching set)	FDC200	71+71+71	① ID15.88	② ID9.52	③ Joint A 2 pieces ID9.52 Flare joint (for indoor unit side connection) Joint B 1 piece OD15.88 ID12.7 Joint D 1 piece ID12.7 OD9.52

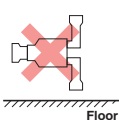
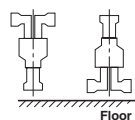
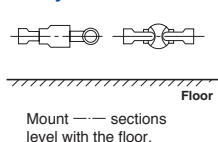
#### Notes

- (1) When 40-60 models of indoor units are applied to this combination, the reducer③ supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size ø9.52mm from branch to indoor unit.
- (2) The reducer④ is for FDC71 and 100 models only.

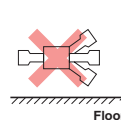
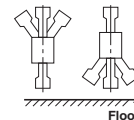
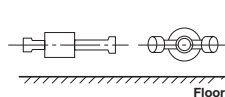
ID stands for inner diameter and OD, outer diameter.

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

#### 2-Way Branch



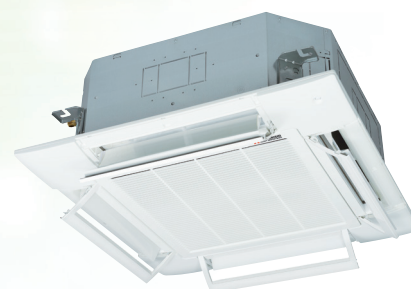
#### 3-Way Branch



# CEILING CASSETTE -4way- FDT



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



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

**Draft Prevention Panel (Option)**

**Remote control (Option)**

**Wired**



RC-EX3



RC-E5



RCH-E3

**Wireless**

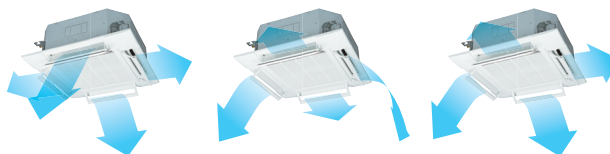


RCN-T-5AW-E2

**Point  
3**

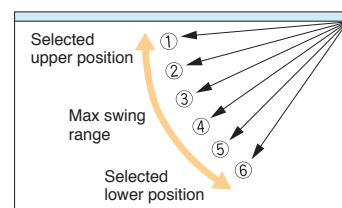
## Individual flap control system

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

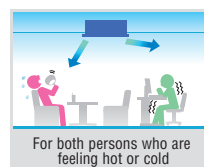


Flap can swing within an upper and lower flap range position within can be selected with a wired remote control.

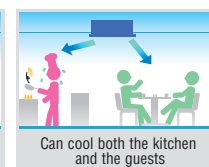
※The wireless remote control is not applicable to the Individual flap control system.



For person who is far from the indoor unit



For both persons who are feeling hot or cold



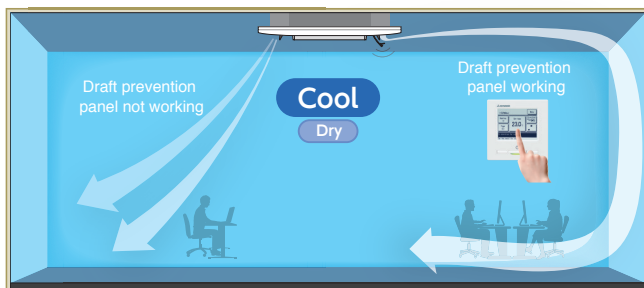
Can cool both the kitchen and the guests

**Point  
1**

## Draft Prevention Panel (Option)

Draft Prevention Panel prevents cold/hot draft being blown directly on the user.

It is possible to set Draft Prevention Panel for each air outlet.

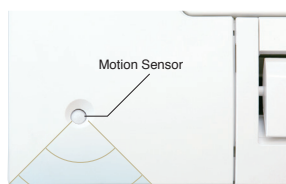


User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3, RCN-T-5AW-E2).

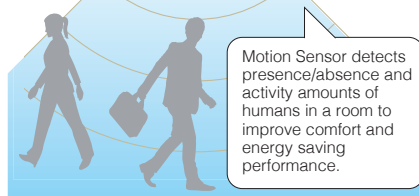
**Point  
2**

## Motion Sensor (Option)

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



LB-T-5W-E



Motion Sensor detects presence/absence and activity amounts of humans in a room to improve comfort and energy saving performance.

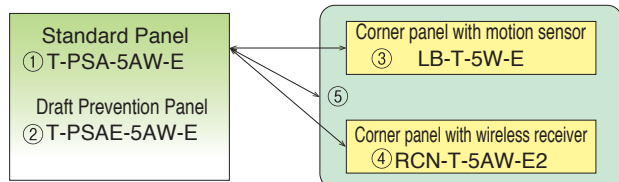


# Point 4

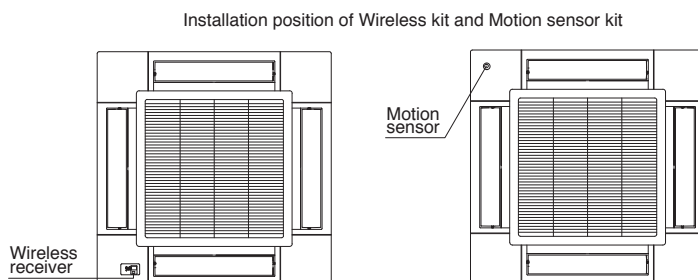
## Panel select pattern

(Option)

8 patterns of panel are available.



- ① Standard Panel only
- ①+③ Standard Panel with corner panel with motion sensor
- ①+④ Standard Panel with corner panel with wireless receiver
- ①+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

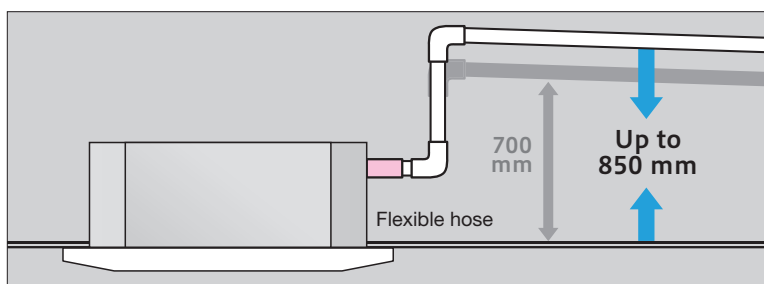


\*Wireless receiver and Motion sensor can be installed to the position as shown

# Point 5

## 850mm Drain Pump

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



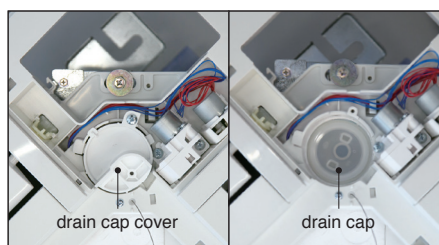
# Point 6

## Easy check of drain pan

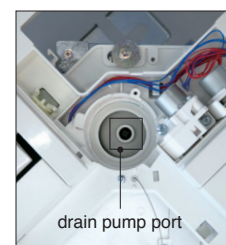
Easy check of drain pan condition is available by removing corner lid only.



Remove corner lid.



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



Clean up the area around the drain pump port.

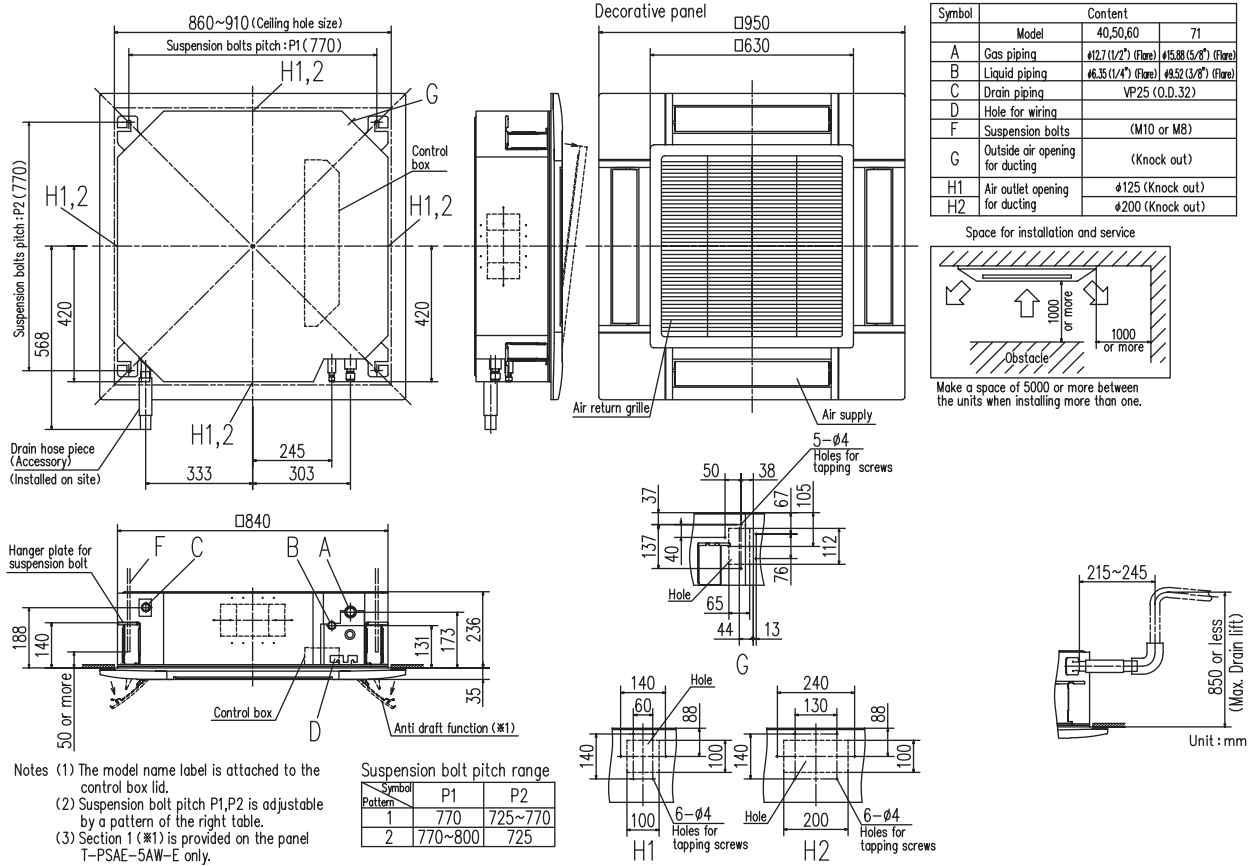
## OUTDOOR UNIT

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

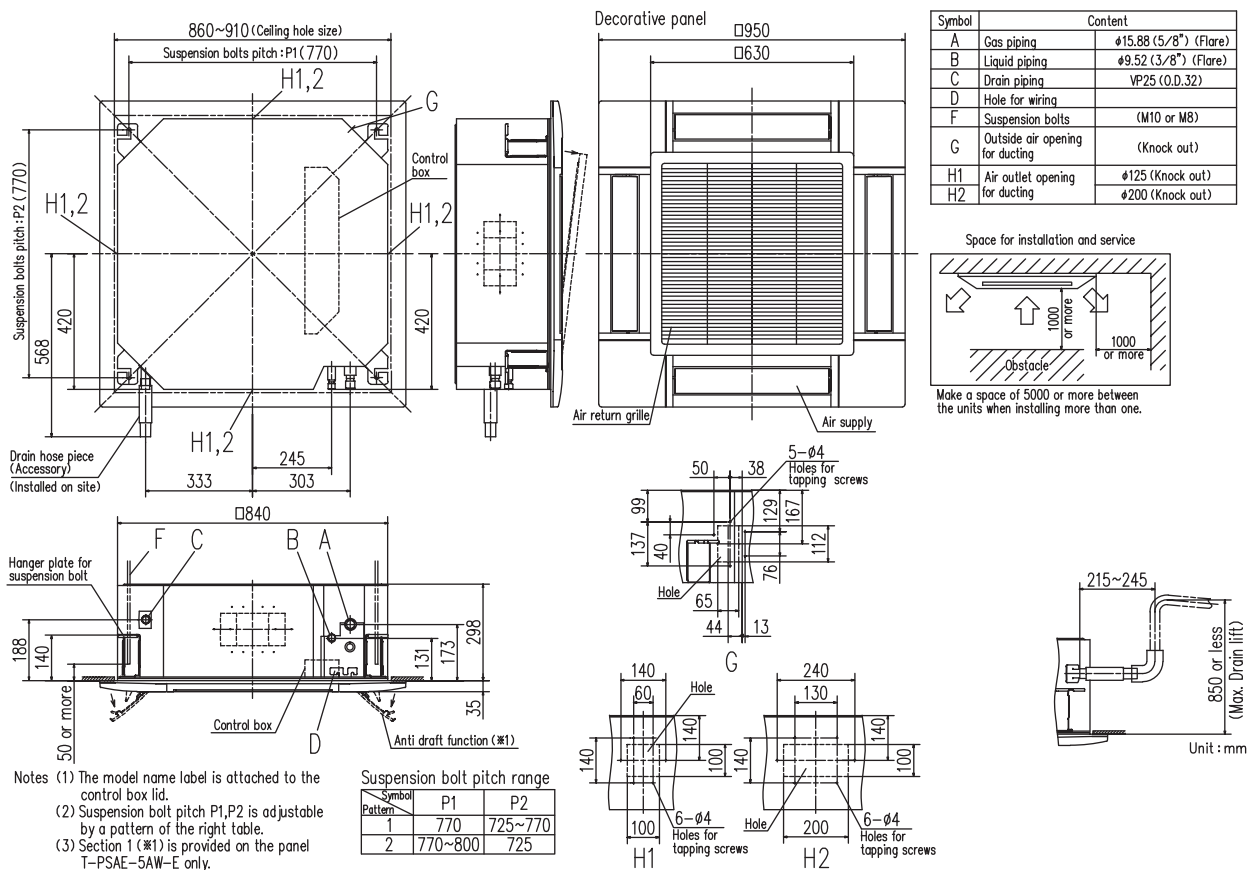
Standard Inverter			
FDC	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm)

### Models FDT40VG,50VG,60VG,71VG



### Models FDT100VG,125VG,140VG





## SPECIFICATIONS

			HyperInverter				
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	5
Max. current				12	15	15	17
Sound power level*1	Indoor	Cooling/Heating	dB(A)	53 / 53	54 / 54	60 / 60	62 / 62
	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64	66 / 66
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		33 / 30 / 27	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29
		Heating (Hi/Me/Lo)		33 / 30 / 27	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29
	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52	51 / 48
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12
		Heating (Hi/Me/Lo)		16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12
	Outdoor	Cooling/Heating		36 / 33	39 / 33	41.5 / 39	60 / 50
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor			640 x 800(+71) x 290			750 x 880(+88) x 340
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)	
	Outdoor			45		60	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")				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*3			-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-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

			HyperInverter					
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	dB(A)	63 / 63	64 / 64	64 / 64	63 / 63	64 / 64
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	70 / 70	72 / 72
Sound pressure level *1 ※1	Indoor	Cooling (Hi/Me/Lo)		39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32
		Heating (Hi/Me/Lo)		39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	48 / 50	48 / 50
		Cooling/Heating		26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	m³/min	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18
		Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950				
	Outdoor			1,300 x 970 x 370				
Net weight	Indoor		kg	30(Unit:25 Standard Panel:5)				
	Outdoor			105				
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.100				
Vertical height differences			Outdoor is higher/lower	Max.30 / Max.15				
Outdoor operating temperature range	Cooling		°C	-15~43*3				
	Heating			-20~20				
Panel			T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty			Pocket plastic net x 1(Washable)					
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

\*1 Powerful-Hi can be selected.

Sound pressure level: 40ZSXVG 36dB(A), 50ZSXVG 38dB(A), 60ZSXVG 44dB(A), 71VNXVG 46dB(A), 100VN(S)XVG 48dB(A), 125/140VN(S)XVG 49dB(A)  
Air flow: 40ZSXVG 19m³/min, 50ZSXVG 20m³/min, 60ZSXVG 26m³/min, 71VNXVG 28m³/min, 100VN(S)XVG 37m³/min, 125/140VN(S)XVG 38m³/min

### NOTES:

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

			Hyper Inverter					
Set model name			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	kW	1.85 / 1.99	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00	
EER/COP	Cooling/Heating		3.84 / 4.02	3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00	
Inrush current		A	5	5	5	5	5	
Max. current			17	24	26	26	26	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	53 / 53	54 / 54	60 / 60	62 / 62	54 / 54
	Outdoor			66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)		33 / 30 / 27	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27
		Heating (Hi/Me/Lo)		33 / 30 / 27	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27
Air flow ※1	Indoor*2	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
		Cooling (Hi/Me/Lo)		16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10
	Outdoor	Heating (Hi/Me/Lo)		16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10
		Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions		HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950				
				750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panel:5)
	Outdoor			60	105			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		m	Max. 50	Max. 100				
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*3					
	Heating		-20~20					
Panel			T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty			Pocket plastic net x 1(Washable)					
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

The values are for simultaneous Multi operation.

			Hyper Inverter				
Set model name			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	kW	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00	
EER/COP	Cooling/Heating		3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00	
Inrush current		A	5	5	5	5	
Max. current			15	15	15	15	
Sound power level*1	Indoor*2	Cooling/Heating dB(A)	54 / 54	60 / 60	62 / 62	54 / 54	
	Outdoor		70 / 70	70 / 70	72 / 72	72 / 72	
Sound pressure level*1 ※1	Indoor*2		Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27
	Outdoor			33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27
Air flow ※1	Indoor*2	Cooling/Heating	48 / 50	48 / 50	49 / 52	49 / 52	
		Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10	
	Outdoor	Cooling/Heating	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10	
		Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)	
	Outdoor			105		24(Unit:19 Standard Panel:5)	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.100			
Vertical height differences			m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*3				
	Heating		-20~20				
Panel			T-PSA-5AW-E, T-PSAE-5AW-E				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

※1 Powerful-Hi can be selected.

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

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

NOTES:

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

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

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

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

			Micro Inverter					
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		Cooling/Heating	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	dB(A)	63 / 63	64 / 64	64 / 64	63 / 63	64 / 64
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71
Sound pressure level*1 ※2	Indoor	Cooling (Hi/Me/Lo)		39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32
		Heating (Hi/Me/Lo)		39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32
Air flow ※2	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57
	Indoor	Cooling (Hi/Me/Lo)		26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18
		Heating (Hi/Me/Lo)	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18	
		Outdoor	Cooling/Heating	m³/min 75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions		Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950				
		Outdoor		845 x 970 x 370				
Net weight		Indoor	kg	30(Unit:25 Standard Panel:5)				
		Outdoor		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-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

The values are for simultaneous Multi operation.

			Micro Inverter			
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		Cooling/Heating 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 ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	33 / 30 / 27 33 / 30 / 27	34 / 32 / 28 34 / 32 / 28	35 / 34 / 29 35 / 34 / 29	33 / 30 / 27 33 / 30 / 27
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	57 / 59
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	16 / 13 / 10 16 / 13 / 10	17 / 14 / 11 17 / 14 / 11	18 / 15 / 12 18 / 15 / 12	16 / 13 / 10 16 / 13 / 10
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 Panel: 35 x 950 x 950		
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	24(Unit:19 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	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-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

※2 Powerful-Hi can be selected.

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter			
Set model name			FDT100VSAPVG	FDT125VSAPVG	FDT140VSAPVG	
			Twin			
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	dB(A)	54 / 54	60 / 60	62 / 62
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)	m³/min	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29
		Heating (Hi/Me/Lo)		33 / 30 / 27	34 / 32 / 28	35 / 34 / 29
Air flow ※1	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	
	Indoor*2	Cooling (Hi/Me/Lo)	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	
		Heating (Hi/Me/Lo)	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	
Exterior dimensions	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	
	Indoor	HeightxWidthxDpth	mm Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
Net weight	Indoor		845 x 970 x 370			
	Outdoor		24(Unit:19 Standard Panel:5)	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	Max.50 / Max.15			
	Heating		-15~50*3			
Panel			-20~20			
Air filter, Q'ty			T-PSA-5AW-E, T-PSAE-5AW-E			
Remote control (option)			Pocket plastic net x 1(Washable)			
			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

The values are for simultaneous Multi operation.

Set model name		Micro Inverter		
		FDT200VSAPVG	FDT250VSAPVG	FDT140VSATVG
		Twin		
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	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		5	5	5
Max. current		20	21	15
Sound power level*1	Indoor*2	63 / 63	64 / 64	54 / 54
	Outdoor	72 / 74	73 / 75	73 / 73
Sound pressure level*1 ※1	Indoor*2	39 / 37 / 31	41 / 39 / 32	33 / 30 / 27
	Heating (Hi/Me/Lo)	39 / 37 / 31	41 / 39 / 32	33 / 30 / 27
	Outdoor	58 / 59	59 / 62	57 / 59
Air flow ※1	Indoor*2	26 / 23 / 17	28 / 25 / 18	16 / 13 / 10
	Heating (Hi/Me/Lo)	26 / 23 / 17	28 / 25 / 18	16 / 13 / 10
	Outdoor	135 / 135	143 / 151	75 / 73
Exterior dimensions	Indoor	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor	1,300 x 970 x 370	1,505 x 970 x 370	845 x 970 x 370
Net weight	Indoor	30(Unit:25 Standard Panel:5)		
	Outdoor	115	143	82
Ref.piping size	Liquid/Gas	9.52(3/8") / 22.22(7/8")		
Refrigerant line (one way) length		Max.70		
Vertical height differences	Outdoor is higher/lower	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	-15~50*3		
	Heating	-15~20		
Panel		T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty		Pocket plastic net x 1(Washable)		
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

※1 Powerful-Hi can be selected.

Sound pressure level: 100VSAPVG 38dB(A), 125VSAPVG 44dB(A), 140VSAPVG 46dB(A), 200VSAPVG 48dB(A), 250VSAPVG 49dB(A), 140VSATVG 38dB(A)  
Air flow: 100VSAPVG 20m³/min, 125VSAPVG 26m³/min, 140VSAPVG 28m³/min, 200VSAPVG 37m³/min, 250VSAPVG 38m³/min, 140VSATVG 20m³/min



## SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter			
Set model name			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	dB(A)	62 / 62	54 / 54	60 / 60
	Outdoor			Cooling/Heating	72 / 74	72 / 74
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		35 / 34 / 29	33 / 30 / 27	34 / 32 / 28
		Heating (Hi/Me/Lo)		35 / 34 / 29	33 / 30 / 27	34 / 32 / 28
Air flow ※2	Outdoor	Cooling/Heating		58 / 59	58 / 59	59 / 62
	Indoor*2	Cooling (Hi/Me/Lo)		18 / 15 / 12	16 / 13 / 10	17 / 14 / 11
		Heating (Hi/Me/Lo)	18 / 15 / 12	16 / 13 / 10	17 / 14 / 11	
	Outdoor	Cooling/Heating	135 / 135	135 / 135	143 / 151	
Exterior dimensions			Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Indoor	HeightxWidthxDepth	mm	1,300 x 970 x 370		
	Outdoor			1,505 x 970 x 370		
Net weight	Indoor		kg	26(Unit:21 Standard Panel:5)		
	Outdoor			24(Unit:19 Standard Panel:5)		
			115		143	
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		-15~20			
Panel			T-PSA-5AW-E, T-PSAE-5AW-E			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

			Standard Inverter		
Set model name			FDT71VNPVG	FDT90VNPVG	FDT100VNP1VG
Indoor unit			FDT71VG	FDT100VG	FDT100VG
Outdoor unit			FDC71VNP	FDC90VNP	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption		Cooling/Heating kW	2.50 / 1.90	2.67 / 2.19	2.76 / 2.84
EER/COP		Cooling/Heating	2.84 / 3.74	3.37 / 4.11	3.62 / 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 ※2	Indoor	Cooling (Hi/Me/Lo)	35 / 34 / 29	39 / 37 / 31	39 / 37 / 31
		Heating (Hi/Me/Lo)	35 / 34 / 29	39 / 37 / 31	39 / 37 / 31
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
Air flow ※2	Indoor	Cooling (Hi/Me/Lo)	18 / 15 / 12	26 / 23 / 17	26 / 23 / 17
		Heating (Hi/Me/Lo)	18 / 15 / 12	26 / 23 / 17	26 / 23 / 17
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor			640 x 800(+71) x 290	
	Indoor			750 x 880(+88) x 340	
Net weight	Indoor		kg	845 x 970 x 370	
	Outdoor			26(Unit:21 Standard Panel:5)	
Ref.piping size	Liquid/Gas		ømm	30(Unit:25 Standard Panel:5)	
				45	
Ref.piping size				57	70
Liquid/Gas			ømm	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length			m	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	
Panel			T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty			Pocket Plastic net x1(Washable)		
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

\*2 Powerful-Hi can be selected.

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

### NOTES:

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

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

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

\*2 : The values are for one indoor unit operation. (Multi system only)

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

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

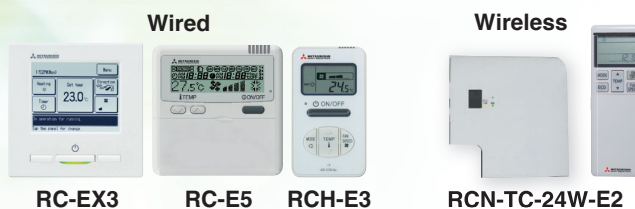


Fits into standard  
600 x 600 ceiling



FDTC 40/50/60

## Remote control (Option)



RC-EX3

RC-E5

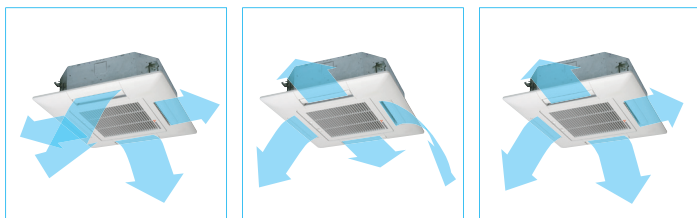
RCH-E3

RCN-TC-24W-E2

Point  
1

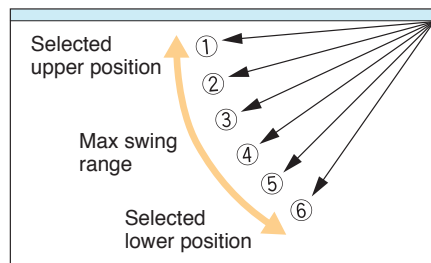
## Individual flap control system

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



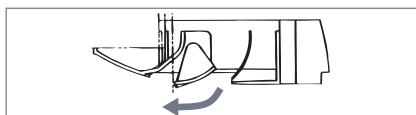
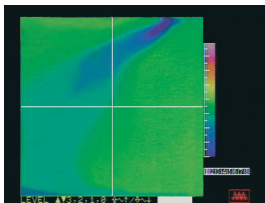
\*The wireless remote control is not applicable to the Individual flap control system.

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



Point  
2

## "CLEARER" Air Flow



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

Point  
3

## Installation Workability



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

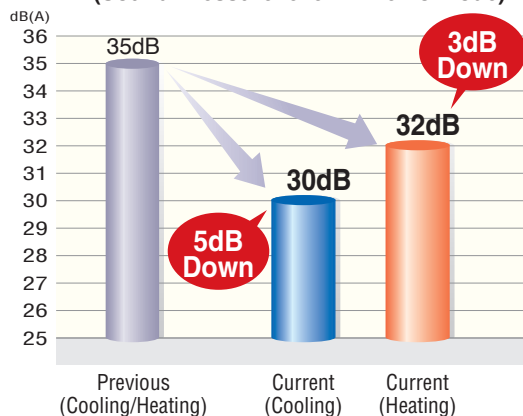


wireless  
remote control  
RCN-TC-24W-E2

Point  
4

## Quiet operation

(Sound Pressure level in the Lo mode)



## Taking OA (Outside Air) into inside

**OA Spacer TC-OAS-E (option)**

**Joint Duct TC-OAD-E (option)**

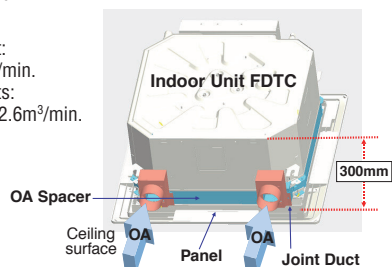
Utilizing OA spacer which comes as optional equipment, outside air can be taken inside.

Using 1 joint duct:

0A up to 1.3m<sup>3</sup>/min.

Using 2 joint ducts:

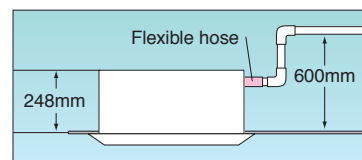
OA from 1.3 to 2.6m<sup>3</sup>/min.



## 600mm Drain Pump

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







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



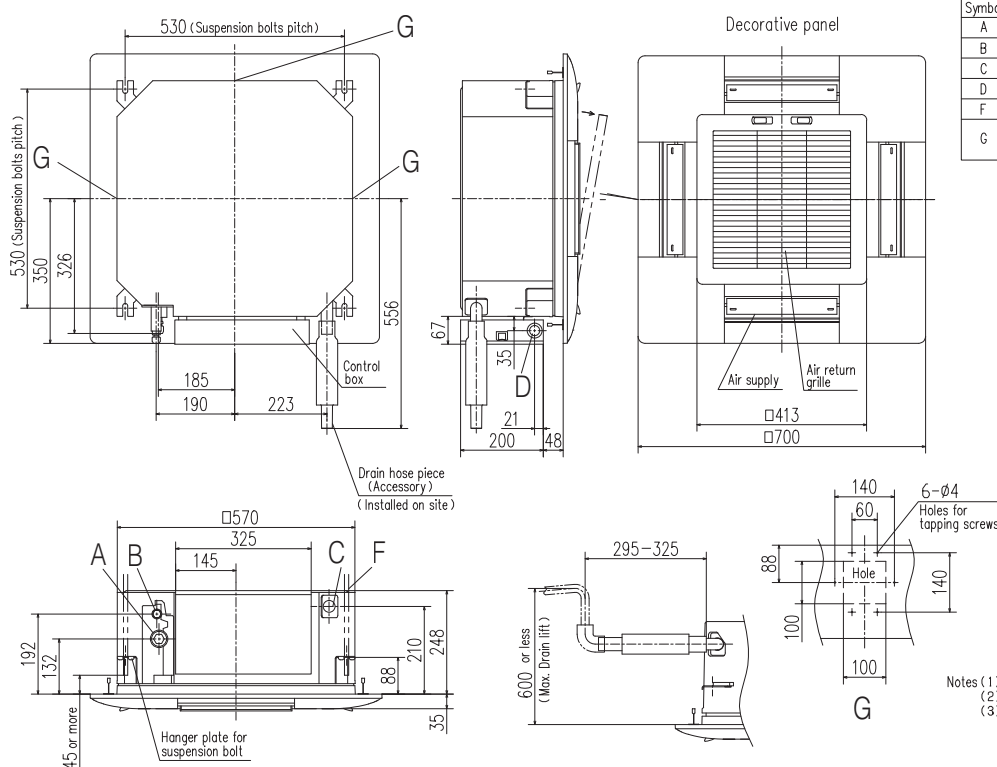
## Arrangement of installation balance of indoor unit

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

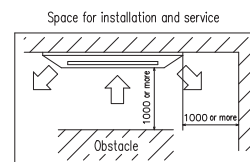
## ■ OUTDOOR UNIT

	Hyper Inverter			Micro Inverter		
SRC • FDC	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

### ■ DIMENSIONS (Unit:mm)



Symbol	Content	
A	Gas piping	ø12.7 (1/2") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)
C	Drain piping	VP20 (I.D. 20,O.D.26) Note (2)
D	Hole for wiring	ø25
F	Suspension bolts	(M10 or M8)
G	Air outlet opening for ducting	(Knock out)



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

- Notes (1) The model name label is attached on the control box lid.  
(2) Prepare the connecting socket (VP20) on site.  
(3) This unit is designed for 2x2 grid ceiling.  
If it is installed on a ceiling other than 2x2 grid ceiling,  
provide an inspection port on the control box side.



## SPECIFICATIONS

		Hyper Inverter		
Set model name		FDT C40ZSXVF	FDT C50ZSXVF	FDT C60ZSXVF
Indoor unit		FDT C40VF	FDT C50VF	FDT C60VF
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)		kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 6.7 )
Power consumption	Cooling/Heating	kW 1.04 / 1.10	1.56 / 1.45	1.99 / 2.07
EER/COP	Cooling/Heating	3.85 / 4.09	3.21 / 3.72	2.81 / 3.24
Inrush current	A	5	5	5
Max. current		12	15	15
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60
	Outdoor	Cooling/Heating	63 / 63	65 / 64
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	42 / 36 / 30	46 / 39 / 30
		Heating (Hi/Me/Lo)	42 / 36 / 32	46 / 39 / 32
	Outdoor	Cooling/Heating	50 / 49	52 / 52
		Cooling (Hi/Me/Lo)	11.5 / 9 / 7	13.5 / 10 / 7
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	11.5 / 9 / 8	13.5 / 10 / 8
		Cooling/Heating	36 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700	
	Outdoor		640 x 800(+71) x 290	
Net weight	Indoor		18.5(Unit:15 Panel:3.5)	
	Outdoor		45	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	
Refrigerant line (one way) length		m	Max.30	
Vertical height differences		m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°C	-15~-46*3	
	Heating		-20~24	
Panel			TC-PSA-25W-E	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2	

The values are for simultaneous Multi operation.

		Hyper Inverter							
Set model name			FDT C71VNXPVF	FDT C100VNXPVF	FDT C125VNXPVF	FDT C140VNXTVF	FDT C100VXSXPVF	FDT C125VXSXPVF	FDT C140VXSXTVF
			Twin			Triple	Twin		Triple
Indoor unit			FDT C40VF x 2	FDT C50VF x 2	FDT C60VF x 2	FDT C50VF x 3	FDT C50VF x 2	FDT C60VF x 2	FDT C50VF 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	2.04 / 2.21	3.18 / 3.20	4.10 / 4.10	4.34 / 4.34	3.18 / 3.20	4.10 / 4.10
EER/COP		Cooling/Heating		3.48 / 3.62	3.14 / 3.50	3.05 / 3.41	3.23 / 3.69	3.14 / 3.50	3.05 / 3.41
Inrush current			A	5	5	5	5	5	5
Max. current				17	24	26	26	15	15
Sound power level*1		Indoor*2	dB(A)	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
		Outdoor		Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72	70 / 70
Sound pressure level*1 ※1		Indoor*2	dB(A)	Cooling (Hi/Me/Lo)	42 / 36 / 30	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30	42 / 36 / 30
				Heating (Hi/Me/Lo)	42 / 36 / 32	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32	46 / 39 / 32
		Outdoor		Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52	48 / 50
		Indoor*2	m³/min	Cooling (Hi/Me/Lo)	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7	11.5 / 9 / 7
				Heating (Hi/Me/Lo)	11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8	13.5 / 10 / 8
		Outdoor		Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions		Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700				
		Outdoor			750 x 880(+88) x 340				
		Indoor			1,300 x 970 x 370				
Net weight		Indoor			18.5(Unit:15 Panel:3.5)				
		Outdoor		kg	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 <td colspan="6">-20~20</td>		-20~20					
Panel			TC-PSA-25W-E						
Air filter, Q'ty			Pocket plastic net x 1(Washable)						
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2						

※1 Powerful-Hi can be selected.

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

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

### NOTES:

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

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

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

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

			Micro Inverter			
Set model name			FDTCT100VNAPVF	FDTCT125VNAPVF	FDTCT140VNATVF	
			Twin		Triple	
Indoor unit			FDTCT50VF x 2	FDTCT60VF x 2	FDTCT50VF 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 3.48 / 3.37	5.47 / 4.55	5.45 / 4.64	
EER/COP		Cooling/Heating	2.87 / 3.32	2.29 / 3.08	2.50 / 3.34	
Inrush current		A	5	5	5	
Max. current			25	25	25	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	
	Outdoor	Cooling/Heating		70 / 70	73 / 73	
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		42 / 36 / 30	42 / 36 / 30	
		Heating (Hi/Me/Lo)		46 / 39 / 32	42 / 36 / 32	
Air flow ※2	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59
	Indoor*2	Cooling (Hi/Me/Lo)		11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7
		Heating (Hi/Me/Lo)	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8	
		Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700		
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	18.5(Unit:15 Panel:3.5)		
	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		℃	-15~50*3		
	Heating			-20~20		
Panel			TC-PSA-25W-E			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2			

The values are for simultaneous Multi operation.

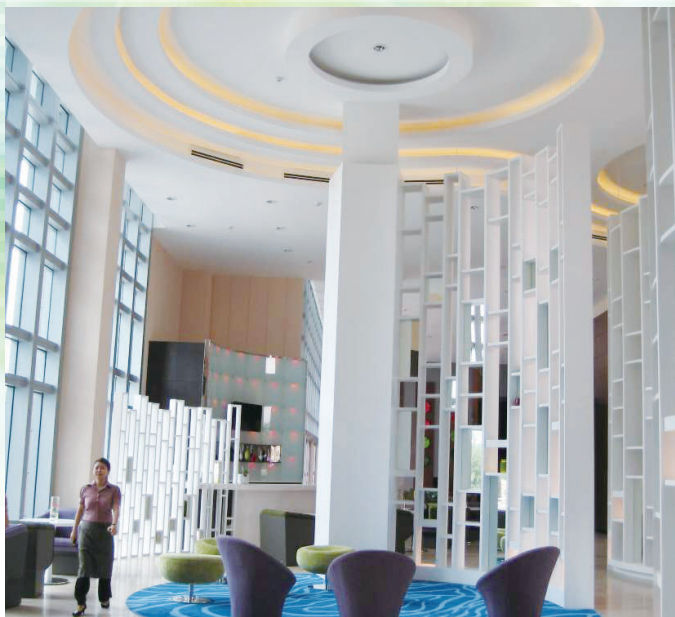
			Micro Inverter							
Set model name			FDTCT100VSAPVF	FDTCT125VSAPVF	FDTCT140VSATVF	FDTCT200VSADVF	FDTCT250VSADVF			
			Twin		Triple	Double Twin				
Indoor unit			FDTCT50VF x 2	FDTCT60VF x 2	FDTCT50VF x 3	FDTCT50VF x 4	FDTCT60VF x 4			
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA			
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	3.48 / 3.37	5.47 / 4.55	5.45 / 4.64	6.95 / 6.98	11.10 / 9.66	
EER/COP			Cooling/Heating		2.87 / 3.32	2.29 / 3.08	2.50 / 3.34	2.73 / 3.21	2.16 / 2.80	
Inrush current			A	5	5	5	5	5		
Max. current				15	15	15	20	21		
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60		
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	72 / 74	75 / 75		
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	dB(A)	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30	42 / 36 / 30	46 / 39 / 30		
	Outdoor	Cooling/Heating		42 / 36 / 32	46 / 39 / 32	42 / 36 / 32	42 / 36 / 32	46 / 39 / 32		
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo)	m³/min	54 / 56	55 / 57	57 / 59	58 / 59	61 / 62		
		Heating (Hi/Me/Lo)		11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7		
	Outdoor	Cooling/Heating		11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700						
	Outdoor			845 x 970 x 370		1,300 x 970 x 370		1,505 x 970 x 370		
	Indoor			18.5(Unit:15 Panel:3.5)						
Net weight	Outdoor		kg	82		115		143		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")	
Refrigerant line (one way) length			m	Max.50			Max.70			
Vertical height differences			Outdoor is higher/lower	m	Max.50 / Max.15			Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15-50 <sup>°3</sup>							
	Heating		-20-20			-15-20				
Panel			TC-PSA-25W-E							
Air filter, Q'ty			Pocket plastic net x 1(Washable)							
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2							

※2 Powerful-Hi can be selected.

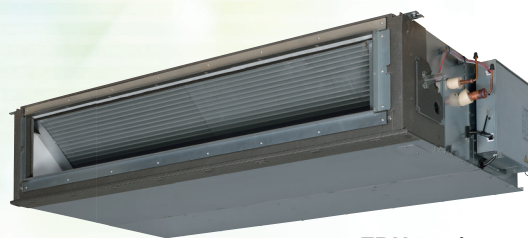
Sound pressure level: 100/125VN(S)APVF 47dB(A), 140VN(S)ATVF 47dB(A), 200/250VSADVF 47dB(A)

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

# DUCT CONNECTED -High Static pressure- FDU



FDU 71/100/125/140



FDU 200/250  
Tropical Usage Mode

Remote control (Option)

Wired

Wireless



RC-EX3



RC-E5



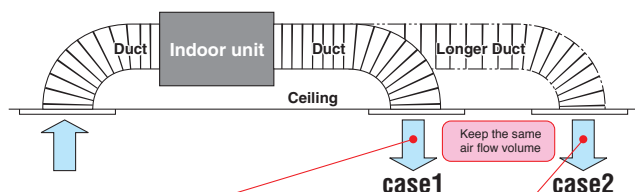
RCH-E3



RCN-KIT4-E2

Point  
1

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



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

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

### <Expansion of external static pressure range>

Previous 10~130Pa → Current 10~200Pa

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

E.S.P. button

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



RC-E5

Point  
2

## More quiet noise

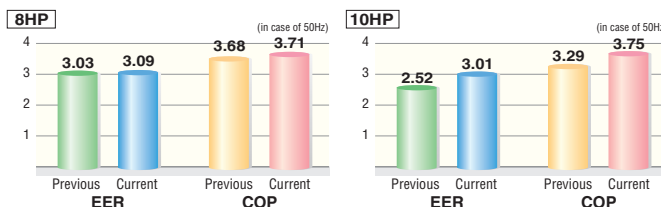
Thanks to use of DC fan motor, fan steps increase from two to four and quiet operation is achieved.(FDU200/250)

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

Point  
3

## High efficiency

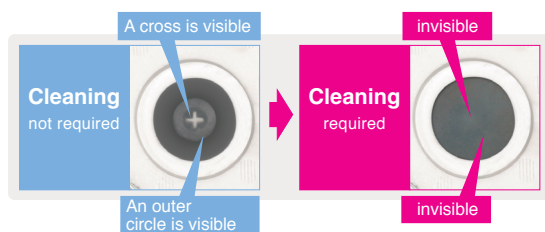
Energy efficiency is improved by use of DC fan motor & high efficient heat exchanger.





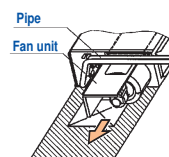
## Point 4 Transparent inspection window

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



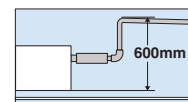
## Point 5 Improvement of the serviceability

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



## Point 6 Enhanced installation workability

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



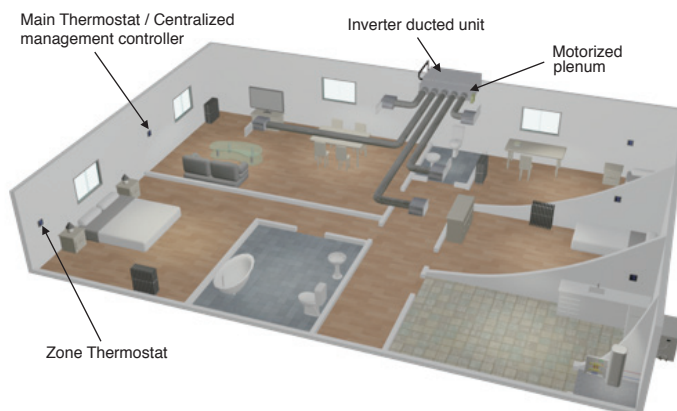
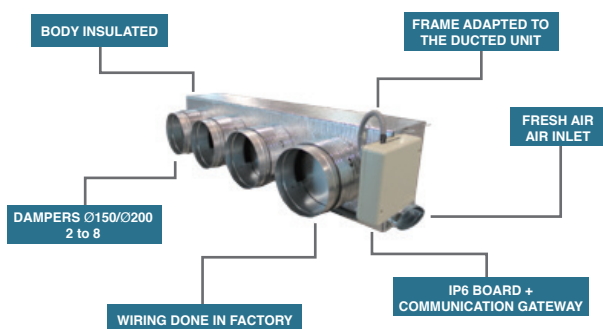
### Round duct adapter (Available for FDU71~140VF)

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

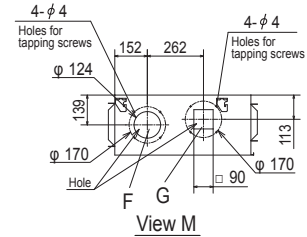
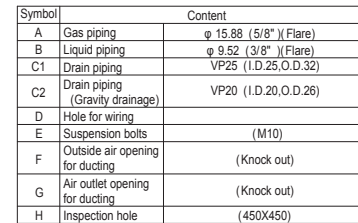


## OUTDOOR UNIT

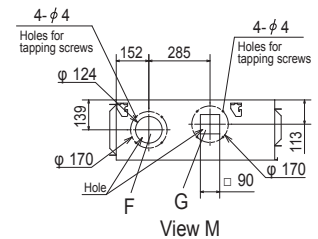
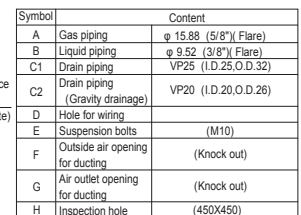
FDC	<b>Hyper Inverter</b>		<b>Micro Inverter</b>		
	71VNX	100~140VN(S)X	100~140VN(S)A	200VSA	250VSA
model					
Chargeless	30m		30m		
Height x Width x Depth (mm)	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

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

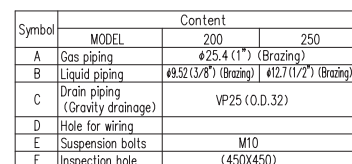
## Model FDU71VF1



Models FDU100VF2,125VF,140VF



### Models FDU200VG, 250VG



## SPECIFICATIONS

				HyperInverter				
Set model name				FDU71VNXVF1	FDU100VNXVF2	FDU125VNXVF	FDU140VNXVF	
Indoor unit				FDU71VF1	FDU100VF2	FDU125VF	FDU140VF	
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)				kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)				kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption		Cooling/Heating	kW	2.05 / 2.01	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP		Cooling/Heating		3.46 / 3.98	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current			A	5	5	5	5	
Max. current				17	25	29	30	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
Air flow ※1	Outdoor	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50	49 / 52	
		Cooling (Hi/Me/Lo)		19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
	Heating (Hi/Me/Lo)	19 / 15 / 10		28 / 25 / 19	32 / 26 / 20	35 / 28 / 22		
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	
External static pressure*2			Pa	Standard:35 Max:200		Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635		280 x 1,370 x 740		
	Outdoor			750 x 880(+88) x 340		1,300 x 970 x 370		
Net weight	Indoor		kg	34		54		
	Outdoor			60		105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50		Max.100		
Vertical height differences			Outdoor is higher/lower	m Max.30 / Max.15				
Outdoor operating temperature range	Cooling	Heating	°C	-15~43*3				
	-20~20							
Air filter				Procure locally				
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

			HyperInverter			
Set model name			FDU100VSXVF2	FDU125VSXVF	FDU140VSXVF	
Indoor unit			FDU100VF2	FDU125VF	FDU140VF	
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			kW	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption		Cooling/Heating	kW	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP		Cooling/Heating		3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current			A	5	5	5
Max. current				16	18	19
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Heating (Hi/Me/Lo)		28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100
External static pressure*2				Pa	Standard:60 Max:200	
Exterior dimensions	Indoor	HeightxWidthxDepth		mm	280 x 1,370 x 740	
	Outdoor				1,300 x 970 x 370	
Net weight	Indoor		kg	54		
	Outdoor			105		
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.100		
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling		°C	-15~43*3		
	Heating			-20~20		
Air filter			Procure locally			
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

\*1 Powerful-Hi can be selected.

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

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

### NOTES:

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

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

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

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

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



## SPECIFICATIONS

			Micro Inverter							
Set model name			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	5		
Max. current			26	26	27	17	17	18		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
Air flow ※1	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59	
	Indoor	Cooling (Hi/Me/Lo)		m³/min	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Heating (Hi/Me/Lo)	28 / 25 / 19		32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
		Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
External static pressure*2			Pa	Standard:60 Max:200						
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740						
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	54						
	Outdoor			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	<td rowspan="2">°C</td> <td colspan="6">-15~50*3</td>	°C	-15~50*3						
	Heating			-20~20						
Air filter				Procure locally						
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-KIT4-E2						

				Micro Inverter		Standard Inverter			
Set model name				FDU200VSAVG	FDU250VSAVG	FDU71VNPVF1	FDU90VNPVF2	FDU100VNP1VF2	
Indoor unit				FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2	
Outdoor unit				FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP	FDC100VNP	
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 )	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )	
Nominal heating capacity (Min~Max)			kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )	
Power consumption	Cooling/Heating		kW	6.15 / 6.03	7.98 / 7.20	2.63 / 1.96	2.65 / 2.25	3.00 / 2.93	
EER/COP	Cooling/Heating			3.09 / 3.71	3.01 / 3.75	2.70 / 3.62	3.40 / 4.00	3.33 / 3.82	
Inrush current			A	5	5	5	5	5	
Max. current				25	27	14.5	18.0	22.0	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	75 / 75	75 / 75	65 / 65	65 / 65	65 / 65	
	Outdoor	Cooling/Heating		72 / 74	73 / 75	67 / 67	69 / 69	70 / 70	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		50 / 47 / 45	50 / 47 / 45	33 / 29 / 25	38 / 36 / 30	38 / 36 / 30	
		Heating (Hi/Me/Lo)		50 / 47 / 45	50 / 47 / 45	33 / 29 / 25	38 / 36 / 30	38 / 36 / 30	
	Outdoor	Cooling/Heating		57 / 59	59 / 62	54 / 54	57 / 55	57 / 61	
		Cooling (Hi/Me/Lo)		72 / 64 / 56	72 / 64 / 56	19 / 15 / 10	28 / 25 / 19	28 / 25 / 19	
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	m³/min	72 / 64 / 56	72 / 64 / 56	19 / 15 / 10	28 / 25 / 19	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		1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	89		34	54		
	Outdoor			115		143	45	57	70
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 25.4(1")	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.70		Max.30			
Vertical height differences			Outdoor is higher/lower	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-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

※1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)AVF2 44dB(A), 125VN(S)AVF 45dB(A), 140VN(S)AVF 47dB(A), 200/250VSAVG:52dB(A),71VNPVF1 38dB(A), 90VNPVF2 44dB(A), 100VNP1VF2 44dB(A)

Air flow: 100VN(S)AVF2 36m³/min, 125VN(S)AVF 39m³/min, 140VN(S)AVF 48m³/min, 200/250VSAVG:80m³/min,71VNPVF1 24m³/min, 90VNPVF2 36m³/min, 100VNP1VF2 36m³/min

### NOTES:

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

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

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

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

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

# DUCT CONNECTED -Low/Middle Static pressure- FDUM



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

## Remote control (Option)

### Wired



RC-EX3



RC-E5



RCH-E3

### Wireless



RCN-KIT4-E2



## Filter kit (option)

UM-FL1EF : for 40, 50

UM-FL2EF : for 60, 71

UM-FL3EF : for 100, 125, 140

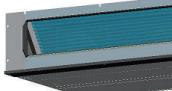
external static pressure loss:5Pa

## Point 1 Thin design

The height of all FDUM models is only 280mm.

70mm less

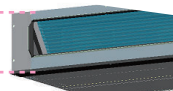
H 350  
H 280



FDUM100/125/140VF

19mm less

H 299  
H 280



FDUM40/50/60/71VF

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

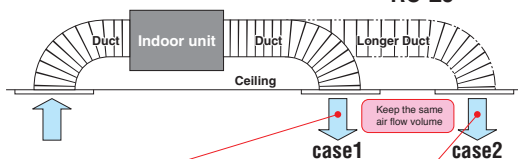
You can set External Static Pressure (E.S.P.) by method of manual setting on remote control. Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of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

### E.S.P. button

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



RC-E5



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

\*Range of 80~150 Pa is set at ex-factory default.

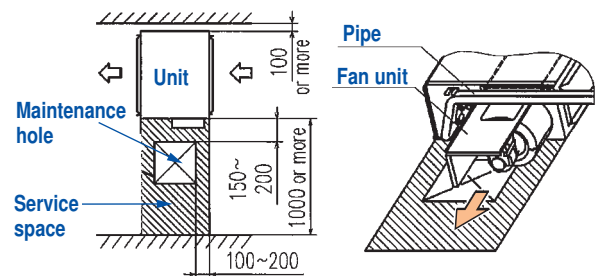
Range of 10~200 Pa is available by setting SW8-4 switch on at site.

### <Expansion of external static pressure range>

Previous 10~130Pa → Current 10~200Pa

## Point 3 Improvement of the serviceability

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



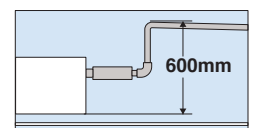
## Point 4 Transparent inspection window

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

## Point 5 Enhanced installation workability

600mm Drain Pump is mounted in all models.

The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



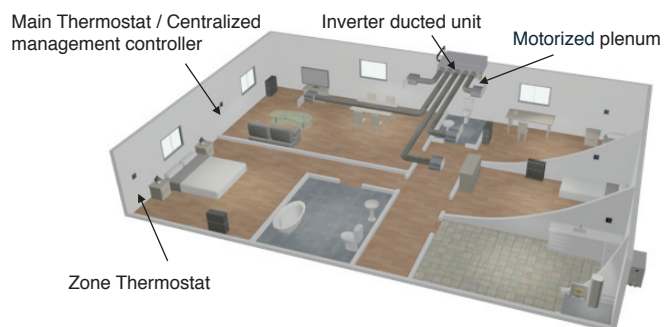
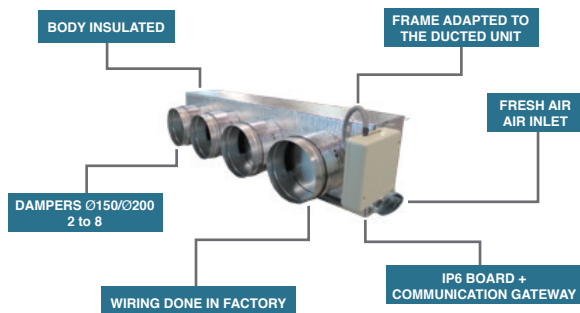
## Round duct adapter

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



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

## Main components



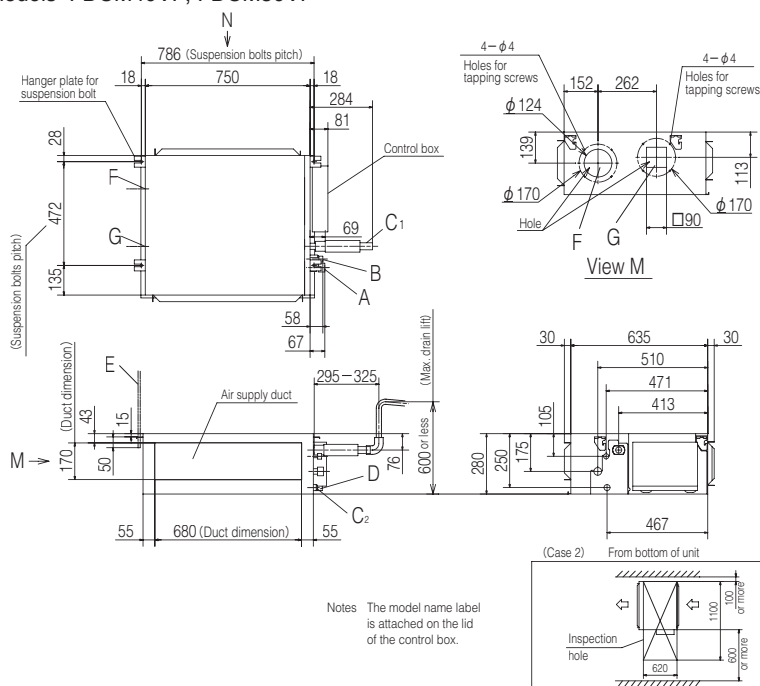
## OUTDOOR UNIT

	<i>Hyper Inverter</i>			<i>Micro Inverter</i>		
SRC • FDC	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

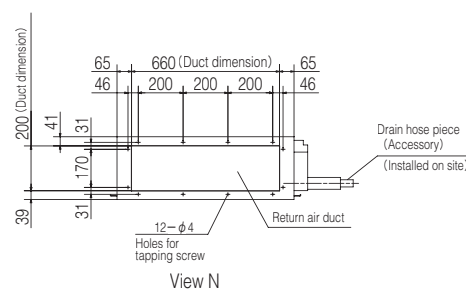
	<i>Standard Inverter</i>		
FDC	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm)

Models FDUM40VF, FDUM50VF



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

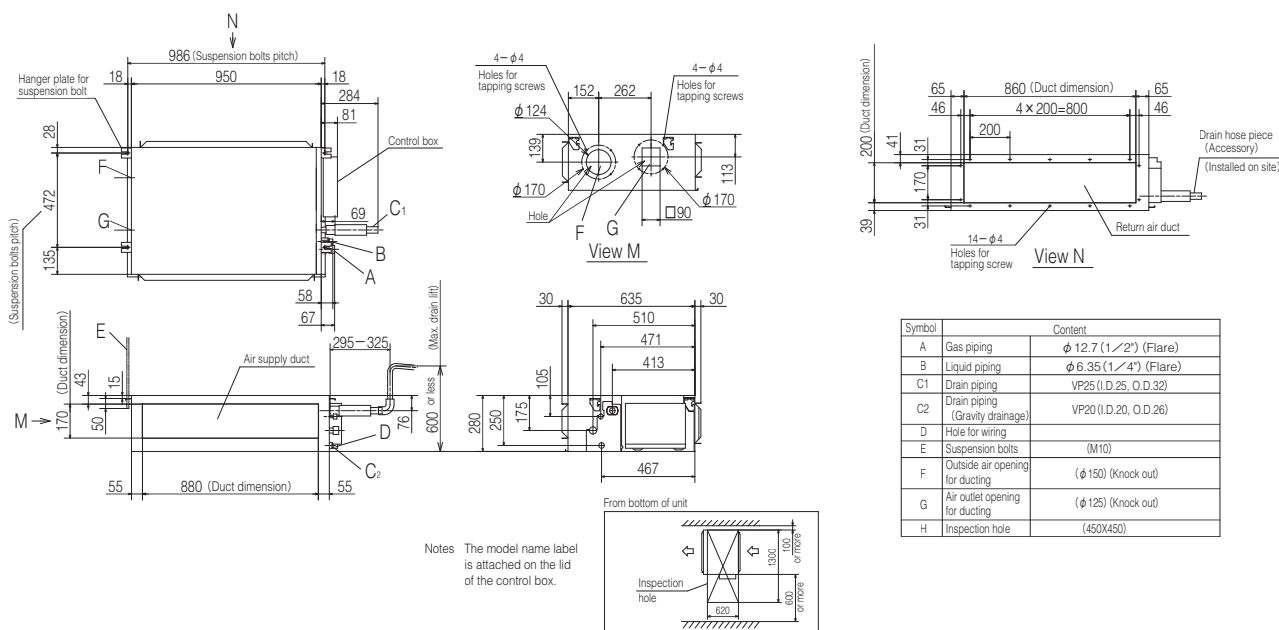


Symbol	Content
A	Gas piping $\phi 12.7(1/2")$ (Flare)
B	Liquid piping $\phi 6.35(1/4")$ (Flare)
C1	Drain piping VP25 (I.D.25, O.D.32)
C2	Drain piping (Gravity drainage) VP20 (I.D.20, O.D.26)
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting ( $\phi 150$ ) (Knock out)
G	Air outlet opening for ducting ( $\phi 125$ ) (Knock out)
H	Inspection hole (450X450)

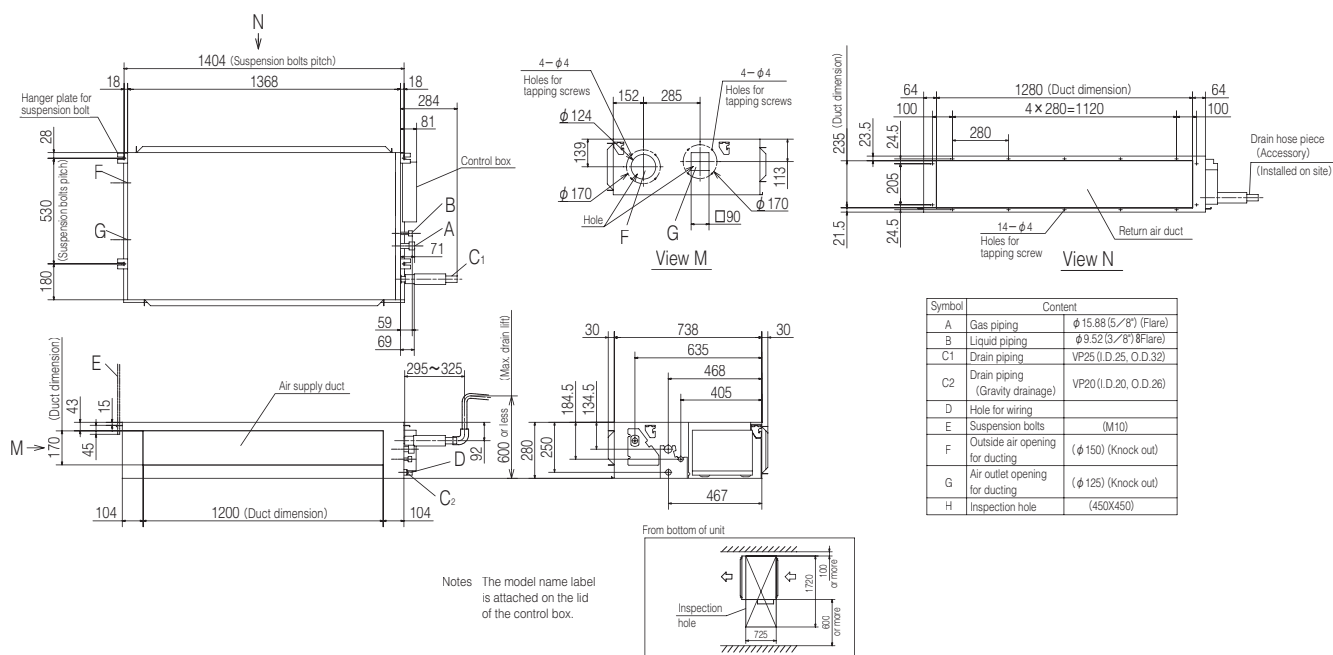


## DIMENSIONS (Unit:mm)

Models FDUM60VF,71VF1



Models FDUM100VF2,125VF,140VF



## SPECIFICATIONS

			HyperInverter					
Set model name			FDUM40ZSXVF	FDUM50ZSXVF	FDUM60ZSXVF	FDUM71VNXVF1	FDUM100VNXVF2	
Indoor unit			FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2	
Outdoor unit			SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)			kW	4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min~Max)			kW	4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )
Power consumption	Cooling/Heating		kW	0.952 / 1.07	1.38 / 1.45	1.54 / 1.75	2.03 / 1.99	2.68 / 3.02
EER/COP	Cooling/Heating			4.20 / 4.21	3.62 / 3.72	3.64 / 3.83	3.50 / 4.02	3.73 / 3.71
Inrush current		A		5	5	5	5	5
Max. current				12	15	15	17	24
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	65 / 65	65 / 65
	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64	66 / 66	70 / 70
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		32 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	38 / 36 / 30
		Heating (Hi/Me/Lo)		32 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	38 / 36 / 30
Air flow ※1	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52	51 / 48	48 / 50
				10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	28 / 25 / 19
		Cooling (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	
		Heating (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	
External static pressure*3			Pa	Standard:35 Max:100				Standard:60 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 1,370 x 740
	Outdoor		640 x 800(+71) x 290				750 x 880(+88) x 340	1,300 x 970 x 370
Net weight	Indoor		kg	29		34		54
	Outdoor		45				60	105
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")			9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.30			Max.50	Max.100
Vertical height differences			Outdoor is higher/lower	m	Max.20 / Max.20			Max.30 / Max.15
Outdoor operating temperature range	Cooling		°C	-15~46*4			-15~43*4	
	Heating		-20~24			-20~20		
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)					
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-KIT4-E2					

				Hyper <span style="font-size: 0.8em;">inverter</span>						
Set model name				FDUM125VNXVF	FDUM140VNXVF	FDUM100VSXVF2	FDUM125VSXVF	FDUM140VSXVF		
Indoor unit				FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF		
Outdoor unit				FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX		
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz					3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)			kW	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )		
Nominal heating capacity (Min~Max)			kW	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )		
Power consumption	Cooling/Heating		kW	3.49 / 3.77	4.28 / 4.42	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42		
EER/COP	Cooling/Heating			3.58 / 3.71	3.27 / 3.62	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62		
Inrush current			A	5	5	5	5	5		
Max. current				26	26	15	15	15		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70		
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	70 / 70	72 / 72		
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	dB(A)	40 / 34 / 29 40 / 34 / 29	40 / 35 / 30 40 / 35 / 30	38 / 36 / 30 38 / 36 / 30	40 / 34 / 29 40 / 34 / 29	40 / 35 / 30 40 / 35 / 30		
	Outdoor	Cooling/Heating		48 / 50	49 / 52	48 / 50	48 / 50	49 / 52		
Air flow ※1	Indoor	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	m³/min	32 / 26 / 20 32 / 26 / 20	35 / 28 / 22 35 / 28 / 22	28 / 25 / 19 28 / 25 / 19	32 / 26 / 20 32 / 26 / 20	35 / 28 / 22 35 / 28 / 22		
		Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100		
	Outdoor									
External static pressure*3			Pa	Standard:60 Max:100						
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740						
	Outdoor			1,300 x 970 x 370						
Net weight	Indoor		kg	54						
	Outdoor			105						
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.100						
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~43*4						
	Heating			-20~20						
Air filter				Filter kit : UM-FL3EF (option)						
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-KIT4-E2						

※1 Powerful-Hi can be selected.

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

Air flow: 40/50ZSXVF 13m³/min, 60ZSXVF 20m³/min, 71VNXVF1 24m³/min, 100VN(S)XVF2 36m³/min, 125VN(S)XVF 39m³/min, 140VN(S)XVF 48m³/min

### NOTES:

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

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

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

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

			HyperInverter					
Set model name			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		A	5	5	5	5	5	
Max. current			17	24	26	26	26	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
		Heating (Hi/Me/Lo)		39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
Air flow ※2	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
	Indoor*2	Cooling (Hi/Me/Lo)		10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
		Heating (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	
External static pressure*3		Pa	Standard:35 Max:100					
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 750 x 635
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor		kg	29		34		29
	Outdoor			60		105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50	Max.100			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*4					
	Heating		-20~20					
Air filter			Filter kit : UM-FL1EF / UM-FL2EF (option)					
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-KIT4-E2					

The values are for simultaneous Multi operation.

		HyperInverter			
Set model name		FDUM100VSXPVF	FDUM125VSXPVF	FDUM140VSXPVF1	FDUM140VSXTVF
		Twin			Triple
Indoor unit		FDUM50VF x 2	FDUM60VF x 2	FDUM71VF1 x 2	FDUM50VF 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 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		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	65 / 65
	Outdoor				
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	32 / 29 / 26 32 / 29 / 26	31 / 28 / 25 31 / 28 / 25	33 / 29 / 25 33 / 29 / 25
	Outdoor				
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	10 / 9 / 8 10 / 9 / 8	15 / 13 / 10 15 / 13 / 10	19 / 15 / 10 19 / 15 / 10
	External static pressure*3		Pa	Standard:35 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635		280 x 750 x 635
	Outdoor		280 x 950 x 635 1,300 x 970 x 370		
Net weight	Indoor		29		29
	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 -20~20		
	Heating				
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)			
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

※2 Powerful-Hi can be selected.

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

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



## SPECIFICATIONS

				Micro Inverter						
Set model name				FDUM100VNAVF2	FDUM125VNAVF	FDUM140VNAVF	FDUM100VSAVF2	FDUM125VSAVF	FDUM140VSAVF	
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 )	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	5	
Max. current				26	26	27	17	17	18	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59	
		Cooling (Hi/Me/Lo)		28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	m³/min	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
External static pressure*3			Pa	Standard:60 Max:100						
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740						
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	54						
	Outdoor			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*4						
	Heating			-20~20						
Air filter				Filter kit : UM-FL3EF (option)						
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2						

The values are for simultaneous Multi operation.

			Micro Inverter					
Set model name			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 )	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 )	15.5 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )
Power consumption		Cooling/Heating	kW	3.25 / 3.21	4.53 / 3.75	5.02 / 4.20	5.02 / 4.20	3.25 / 3.21
EER/COP		Cooling/Heating		3.08 / 3.49	2.76 / 3.73	2.71 / 3.69	2.71 / 3.69	3.08 / 3.49
Inrush current			A	5	5	5	5	5
Max. current				26	26	27	27	17
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60	60 / 60
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	73 / 73	70 / 70
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)		32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26	32 / 29 / 26
		Heating (Hi/Me/Lo)		32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26	32 / 29 / 26
Air flow ※1	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	57 / 59	54 / 56
	Indoor*2	Cooling (Hi/Me/Lo)		10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	10 / 9 / 8
			Heating (Hi/Me/Lo)	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	10 / 9 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
External static pressure*3			Pa	Standard:35 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 750 x 635
	Outdoor			845 x 970 x 370				
Net weight	Indoor		kg	29		34		29
	Outdoor			80		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*4				
	Heating			-20~20				
Air filter				Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

※1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)AVF2 44dB(A), 125VN(S)AVF 45dB(A), 140VN(S)AVF 47dB(A), 100VN(S)APVF 37dB(A), 125VNAPVF 36dB(A), 140VNAPVF1 38dB(A), 140VNATVF 37dB(A)

Air flow: 100VN(S)AVF2 36m³/min, 125VN(S)AVF 39m³/min, 140VN(S)AVF 48m³/min, 100VN(S)APVF 13m³/min, 125VNAPVF 20m³/min, 140VNAPVF1 24m³/min, 140VNATVF 13m³/min

### NOTES:

The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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

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

			Micro Inverter						
Set model name			FDUM125VSAPVF	FDUM140VSAPVF1	FDUM200VSAPVF2	FDUM250VSAPVF	FDUM140VSATVF	FDUM200VSATVF1	
			Twin				Triple		
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	5	
Max. current			17	18	22	24	18	22	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	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 ※2	Indoor*2	Cooling (Hi/Me/Lo)		31 / 28 / 25	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	32 / 29 / 26	33 / 29 / 25
		Heating (Hi/Me/Lo)		31 / 28 / 25	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	32 / 29 / 26	33 / 29 / 25
	Outdoor	Cooling/Heating		55 / 57	57 / 59	58 / 59	59 / 62	57 / 59	58 / 59
		Cooling (Hi/Me/Lo)		15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	10 / 9 / 8	19 / 15 / 10
Air flow ※2	Indoor*2	Heating (Hi/Me/Lo)	m³/min	15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	10 / 9 / 8	19 / 15 / 10
	Outdoor	Cooling/Heating		75 / 73	75 / 73	135 / 135	143 / 151	75 / 73	135 / 135
External static pressure*3			Pa	Standard:35 Max:100		Standard:60 Max:100		Standard:35 Max:100	Standard:35 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635		280 x 1,370 x 740		280 x 750 x 635	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		kg	34		54		29	34
	Outdoor			82		115		82	115
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")		9.52(3/8") / 15.88(5/8")	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	°C	-15~50*4					
		Heating							
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)						
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2						

			Standard Inverter		
Set model name			FDUM71VNPVF1	FDUM90VNPVF2	FDUM100VNP1VF2
Indoor unit			FDUM71VF1	FDUM100VF2	FDUM100VF2
Outdoor unit			FDC71VNP	FDC90VNP	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)			kW 7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	kW	2.63 / 1.96	2.65 / 2.25	3.00 / 2.93
EER/COP	Cooling/Heating		2.70 / 3.62	3.40 / 4.00	3.33 / 3.82
Inrush current		A	5	5	5
Max. current			14.5	18.0	22.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 69
Sound pressure level*1 ※2	Indoor	Cooling (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30
		Heating (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30
	Outdoor	Cooling/Heating		54 / 54	57 / 55
		Cooling (Hi/Me/Lo)		19 / 15 / 10	28 / 25 / 19
Air flow ※2	Indoor	Heating (Hi/Me/Lo)	m³/min	19 / 15 / 10	28 / 25 / 19
		Cooling/Heating		36 / 36	63 / 49.5
	Outdoor	Cooling/Heating		36 / 36	63 / 49.5
External static pressure*3		Pa	Standard:35 Max:100	Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635	
	Outdoor			280 x 1,370 x 740	
Net weight	Indoor		kg	640 x 800(+71) x 290	
	Outdoor			750 x 880(+88) x 340	
	Indoor			845 x 970 x 370	
	Outdoor				
Ref.piping size	Liquid/Gas	ømm	45	57	70
Refrigerant line (one way) length			6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Vertical height differences			m	Max.30	
Outdoor operating temperature range			m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°C	-15~46*4		
	Heating		-15~20		
Air filter			Filter kit : UM-FL2EF / UM-FL3EF (option)		
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

※2 Powerful-Hi can be selected.

Sound pressure level: 125VSAPVF 36dB(A), 140VSAPVF1 38dB(A), 200VSAPVF2 44dB(A), 250VSAPVF 45dB(A), 140VSATVF 37dB(A), 200VSATVF1 38dB(A), 71VNPVF1 38dB(A), 90VNPVF2 44dB(A), 100VNP1VF2 44dB(A)

Air flow: 125VSAPVF 20m³/min, 140VSAPVF1 24m³/min, 200VSAPVF2 36m³/min, 250VSAPVF 39m³/min, 140VSATVF 13m³/min, 200VSATVF1 24m³/min, 71VNPVF1 24m³/min, 90VNPVF2 36m³/min, 100VNP1VF2 36m³/min

# WALL MOUNTED SRK



Only used with Multi System.

**SRK 50•60**



Common to the both case of Single and Multi

**SRK 100**

**Wired remote control (Option)**



**RC-EX3**



**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**

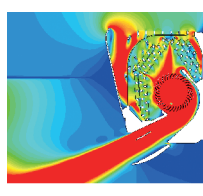
## Jet Technology

**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

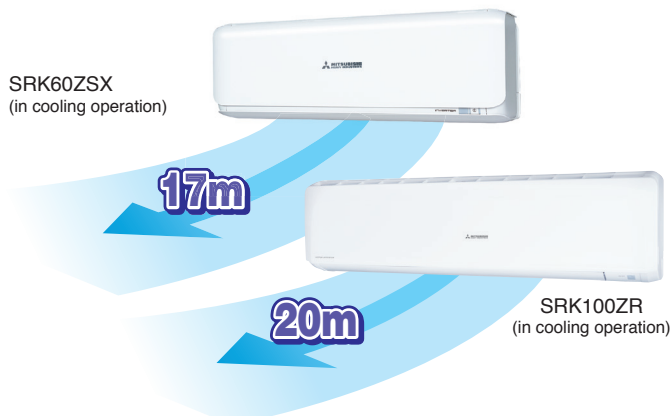


Fast ← → Slow  
Colors in the figure show the air speed.

**Point 3**

## Long Reach Air Flow

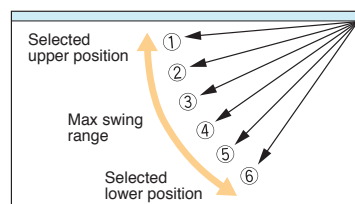
Powerful airflow is realized by Jet technology. Good for large living rooms and shops, which Increase comfort.



**Point 4**

## Flap control system

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

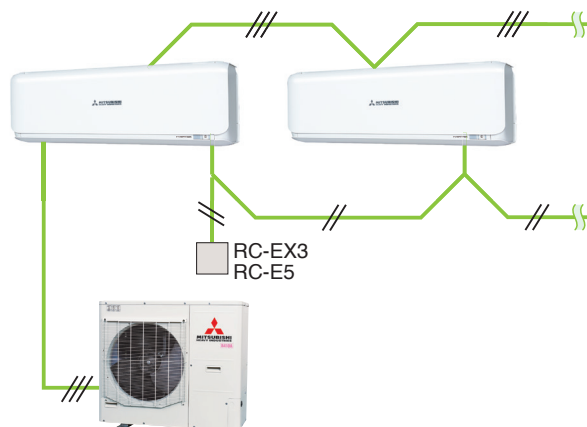


\*The wireless remote control is not applicable to the flap control system.

**Point 5**

## Indoor unit connection

Max three indoor units are connectable to one outdoor unit.



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

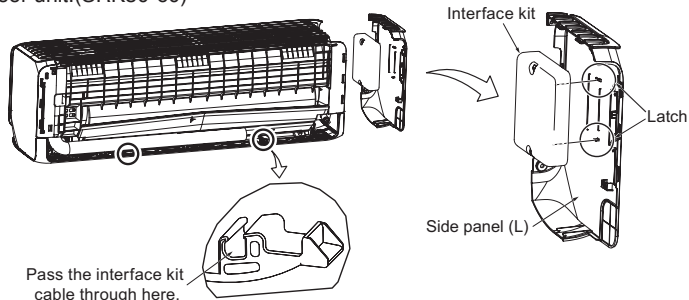


Point  
6

# SC-BIKN2-E connection

(option)

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

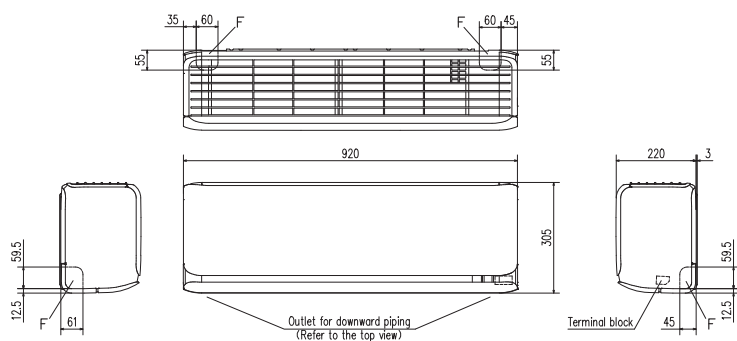


## OUTDOOR UNIT

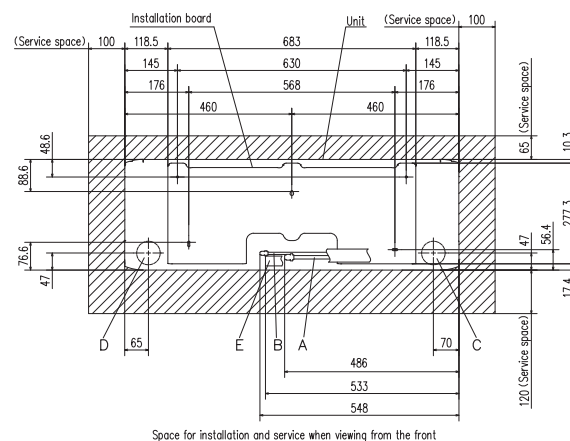
	<i>Hyper Inverter</i>	<i>Micro Inverter</i>	<i>Standard Inverter</i>
FDC	100~140VN(S)X	100~140VN(S)A	200VSA
model			
Chargeless	30m	30m	30m
Height x Width x Depth (mm)	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370

## DIMENSIONS (Unit:mm)

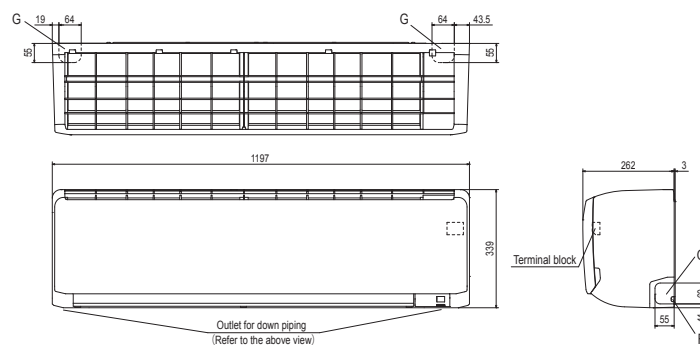
SRK50ZSX-S, 60ZSX-S



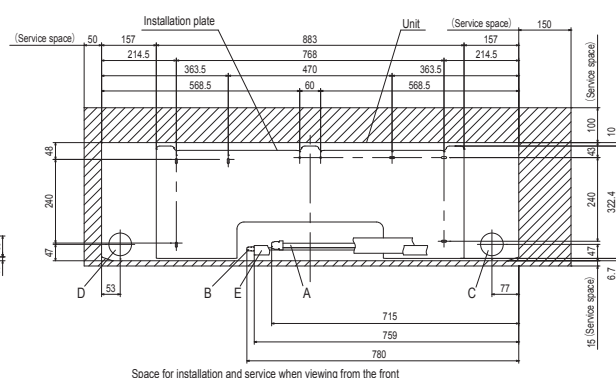
Symbol	Content
A	Gas piping
B	Liquid piping
C	Hole on wall for right rear piping
D	Hole on wall for left rear piping
E	Drain hose
F	Outlet for piping



SRK100ZR-S



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



## SPECIFICATIONS

The values are for simultaneous Multi operation.

		<i>Hyper Inverter</i>					
Set model name		SRK100VNXPSX	SRK125VNXPSX	SRK140VNXPSX	SRK100VVSXPZSX	SRK125VVSXPZSX	SRK140VVSXPZSX
		Twin		Triple	Twin		Triple
Indoor unit		SRK50ZSX-S x 2	SRK60ZSX-S x 2	SRK50ZSX-S x 3	SRK50ZSX-S x 2	SRK60ZSX-S x 2	SRK50ZSX-S x 3
Outdoor unit		FDC100VNX	FDC125VNX	FDC140VNX	FDC100VVSX	FDC125VVSX	FDC140VVSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 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	62 / 63	59 / 62
	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	46 / 41 / 33 / 22	44 / 39 / 31 / 22
		Heating (Hi/Me/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	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	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 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	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 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		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		-20~20				
Air filter, Q'ty			Polypropylene net x 2(washable)				
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E				

		<i>Micro Inverter</i>	
Set model name		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*2	Cooling/Heating	63 / 63
	Outdoor	Cooling/Heating	70 / 70
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating	54 / 56
Air flow	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6
	Outdoor	Cooling/Heating	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	339 / 1,197 / 262
	Outdoor		845 / 970 / 370
Net weight	Indoor		16.5
	Outdoor		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, Q'ty			Polypropylene net x2 (Washable)
Remote control (option)			wired:RC-EX3, 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.

			Micro Inverter							
Set model name			SRK100VNAPZSX	SRK125VNAPZSX	SRK140VNATZSX	SRK100VSAPZSX	SRK125VSAPZSX	SRK140VSATZSX		
			Twin		Triple	Twin		Triple		
Indoor unit			SRK50ZSX-S x 2	SRK60ZSX-S x 2	SRK50ZSX-S x 3	SRK50ZSX-S x 2	SRK60ZSX-S x 2	SRK50ZSX-S x 3		
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	2.89 / 2.61	4.65 / 3.58	4.62 / 3.74	2.89 / 2.61	4.65 / 3.58	4.26 / 3.74	
EER/COP		Cooling/Heating		3.46 / 4.29	2.69 / 3.91	2.94 / 4.14	3.46 / 4.29	2.69 / 3.91	2.94 / 4.14	
Inrush current			A	5	5	5	5	5	5	
Max. current				24	24	24	15	15	15	
Sound power level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling/Heating	dB(A)	59 / 62	62 / 63	59 / 62	59 / 62	62 / 63	59 / 62	
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73	
Sound pressure level* <sup>1</sup>	Indoor* <sup>2</sup>	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	44 / 39 / 31 / 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	46 / 41 / 33 / 23	
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59	
Air flow	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo/Ulo)	m <sup>3</sup> /min	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	14.3 / 12.4 / 7.8 / 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	17.3 / 14.3 / 9.8 / 6.2	
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	305 x 920 x 220						
	Outdoor			845 x 970 x 370						
Net weight	Indoor			kg	13					
	Outdoor		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* <sup>3</sup>						
	Heating			-20~20						
Air filter, Q'ty					Polypropylene net x 2(washable)					
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E						

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

				Micro Inverter	Standard Inverter
Set model name				SRK200VSAPZR	SRK100VNP1ZR
				Twin	
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
	Outdoor	Cooling/Heating		72 / 74	70 / 74
Sound pressure level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling (Hi/Me/L0/Ulo)	dB(A)	48 / 45 / 40 / 27	48 / 45 / 40 / 27
		Heating (Hi/Me/L0/Ulo)		48 / 43 / 38 / 30	48 / 43 / 38 / 30
Air flow	Outdoor	Cooling/Heating		58 / 59	57 / 61
	Indoor* <sup>2</sup>	Cooling (Hi/Me/L0/Ulo)	m <sup>3</sup> /min	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6
		Heating (Hi/Me/L0/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")	
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* <sup>3</sup>	
	Heating			-15-20	
Air filter, Q'ty			Polypropylene net x2 (Washable)		
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E		



# CEILING SUSPENDED FDE



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

## Remote control (Option)

### Wired

### Wireless



RC-EX3



RC-E5



RCH-E3



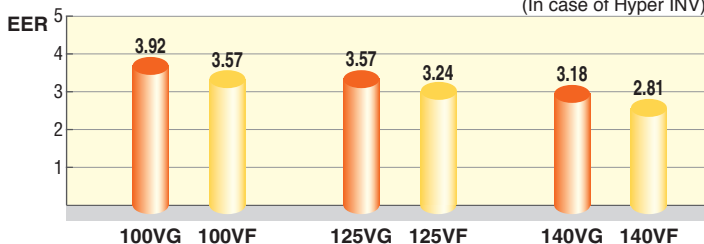
RCN-E-E2

Point 1

## High efficiency

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

(In case of Hyper INV)



Point 2

## Reduction of weight

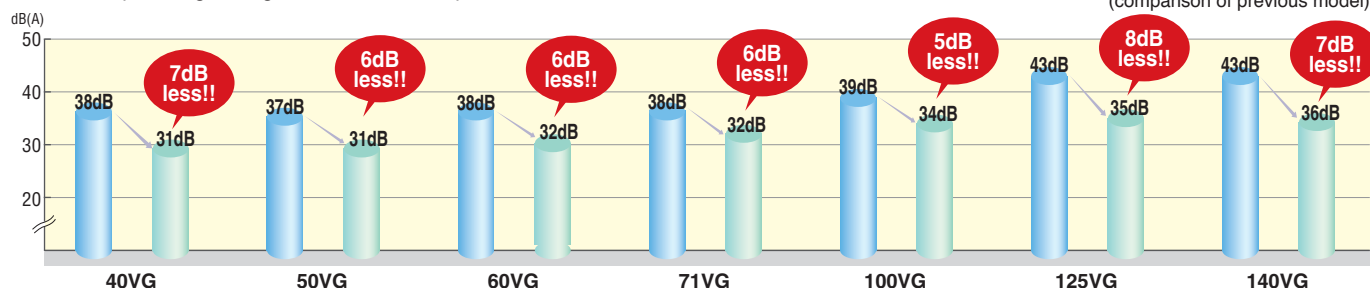
Thanks to decreasing the numbers of fan motor from two to one, reduction of weight was achieved.

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

Point 3

## More quiet noise

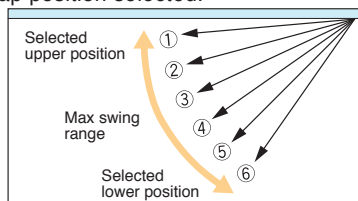
The industry's lowest sound pressure levels were achieved by decreasing air flow volume, decreasing pressure loss with employment of one fan motor and optimizing casing and distributor shape.



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

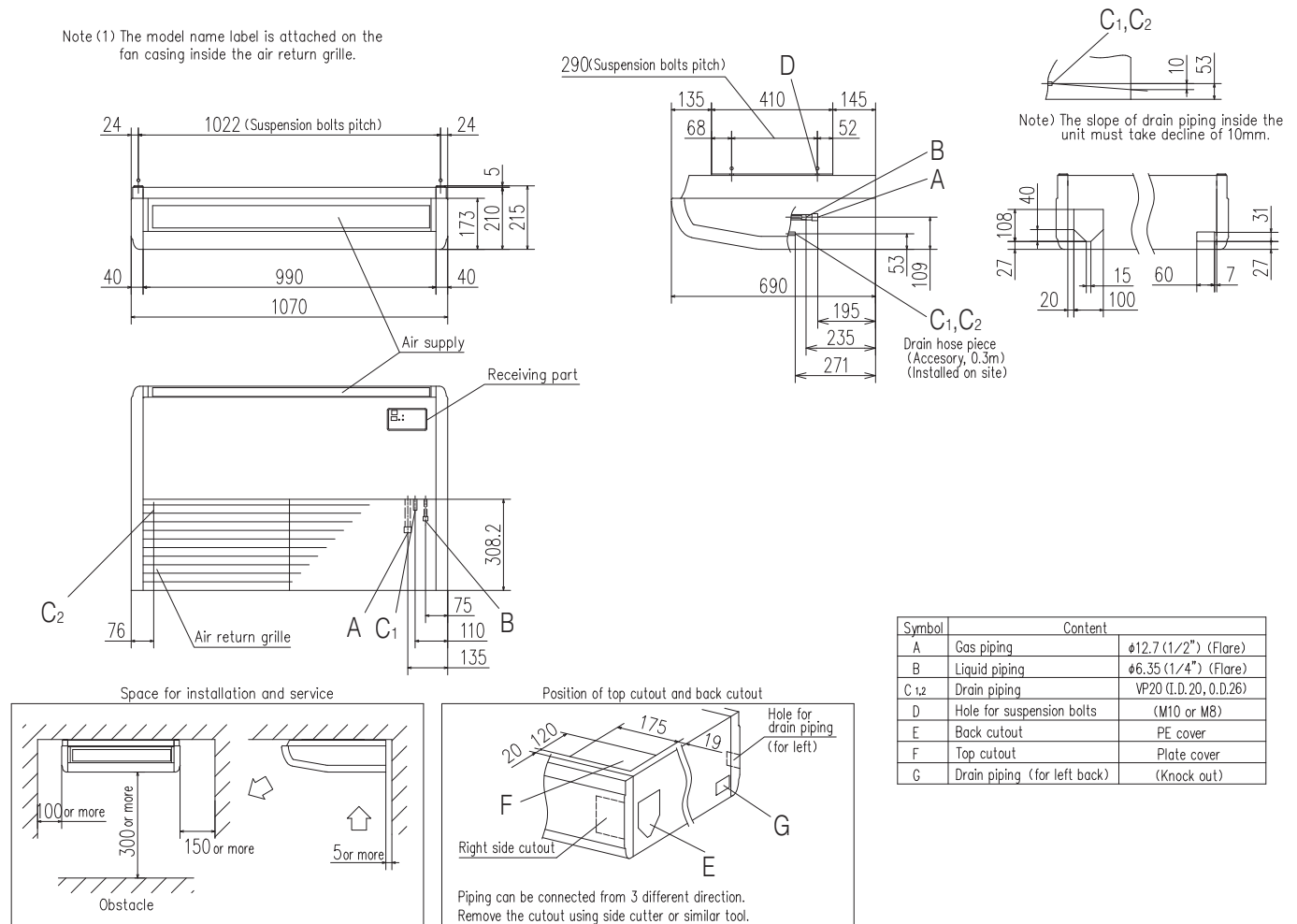
	Hyper Inverter			Micro Inverter		
SRC • FDC	40~60ZSX	71VNX	100~140VN(S)X	100~140VN(S)A	200VSA	250VSA
model						
Chargeless	15m	30m		30m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

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

## DIMENSIONS (Unit:mm)

Models FDE40VG, 50VG

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



Symbol	Content
A	Gas piping #12.7 (1/2") (Flare)
B	Liquid piping #6.35 (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)

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

Models FDE60VG, 71VG

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

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



## SPECIFICATIONS

			HyperInverter					
Set model name			FDE40ZSXVG	FDE50ZSXVG	FDE60ZSXVG	FDE71VNXVG	FDE100VNXVG	
Indoor unit			FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG	
Outdoor unit			SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	
Nominal heating capacity (Min~Max)			kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	
Power consumption			Cooling/Heating kW 1.02 / 1.10	1.52 / 1.46	1.75 / 1.86	2.11 / 2.11	2.55 / 2.68	
EER/COP			Cooling/Heating 3.92 / 4.09	3.29 / 3.70	3.20 / 3.60	3.36 / 3.79	3.92 / 4.18	
Inrush current			A	5	5	5	5	
Max. current				12	15	15	24	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	64 / 64	
	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64	70 / 70	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	43 / 38 / 34	
		Heating (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	43 / 38 / 34	
	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52	51 / 48	
		Cooling/Heating		10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	26 / 21 / 16.5		
		Cooling/Heating	36 / 33	40 / 33	41.5 / 39	60 / 50		
	Outdoor					100 / 100		
Exterior dimensions	Indoor	HeightxWidthxDepth <td rowspan="2">mm</td> <td colspan="3">210 x 1,070 x 690</td> <td>250 x 1,620 x 690</td>	mm	210 x 1,070 x 690			250 x 1,620 x 690	
	Outdoor			640 x 800(+71) x 290			750 x 880(+88) x 340	
Net weight	Indoor		kg	28			43	
	Outdoor			45			105	
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")			9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.30			Max.50	
Vertical height differences			Outdoor is higher/lower	m	Max.20 / Max.20			Max.30 / Max.15
Outdoor operating temperature range	Cooling	<td rowspan="2">°C</td> <td colspan="3">-15~46*3</td> <td>-15~43*3</td>	°C	-15~46*3			-15~43*3	
	Heating			-20~24			-20~20	
Air filter, Q'ty				Pocket Plastic net x2(Washable)				
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2				

			HyperInverter							
Set model name			FDE125VNXVG	FDE140VNXVG	FDE100VSXVG	FDE125VSXVG	FDE140VSXVG			
Indoor unit			FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG			
Outdoor unit			FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX			
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz							
Nominal cooling capacity (Min~Max)			kW	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )		
Nominal heating capacity (Min~Max)			kW	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )		
Power consumption			Cooling/Heating	kW	3.50 / 3.77	4.40 / 4.69	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69	
EER/COP			Cooling/Heating		3.57 / 3.71	3.18 / 3.41	3.92 / 4.18	3.57 / 3.71	3.18 / 3.41	
Inrush current			A	5	5	5	5	5		
Max. current				26	26	15	15	15		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	65 / 65	64 / 64	64 / 64	65 / 65		
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	70 / 70	72 / 72		
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36		
		Heating (Hi/Me/Lo)		45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36		
Air flow ※1	Indoor	Cooling/Heating		48 / 50	49 / 52	48 / 50	48 / 50	49 / 52		
	Outdoor	Cooling (Hi/Me/Lo)	29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18			
			Heating (Hi/Me/Lo)	29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18		
				100 / 100	100 / 100	100 / 100	100 / 100	100 / 100		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690						
	Outdoor			1,300 x 970 x 370						
Net weight	Indoor		kg	43						
	Outdoor			105						
Ref.piping size			Liquid/Gas	ømm					9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length						m			Max.100	
Vertical height differences			Outdoor is higher/lower				m			Max.30 / Max.15
Outdoor operating temperature range	Cooling		°C	-15~43*3						
	Heating			-20~20						
Air filter, Q'ty								Pocket Plastic net x2(Washable)		
Remote control (option)								wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2		

※1 Powerful-Hi can be selected.

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

Air flow: 40/50ZSXVG 13m³/min, 60ZSXVG 20m³/min, 71VNXVG 20m³/min, 100/125VN(S)XVG 32m³/min, 140VN(S)XVG 34m³/min

### NOTES:

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

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

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

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

			Hyper Inverter				
Set model name			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* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling/Heating Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo) Cooling/Heating Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo) Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor			66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level* <sup>1</sup> ※1	Indoor* <sup>2</sup>			38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
	Outdoor			38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
Air flow ※1	Indoor* <sup>2</sup>			51 / 48	48 / 50	48 / 50	49 / 52
	Outdoor			10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
		10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor			750 x 880(+88) x 340		1,300 x 970 x 370	
Net weight	Indoor		kg	28		33	
	Outdoor			60		105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max. 50	Max. 100			
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43* <sup>3</sup>				
	Heating		-20~20				
Air filter, Q'ty			Pocket plastic net x 2(Washable)				
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2				

The values are for simultaneous Multi operation.

		Hyper Inverter						
Set model name		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	60 / 60		
	Outdoor		70 / 70	70 / 70	72 / 72	72 / 72		
Sound pressure level*1 ※1	Indoor*2		Cooling (Hi/Me/Lo)	dB(A)	38 / 36 / 31	41 / 37 / 32	38 / 36 / 31	
			Heating (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	38 / 36 / 31	
	Outdoor		Cooling/Heating		48 / 50	48 / 50	49 / 52	49 / 52
			Cooling (Hi/Me/Lo)	m³/min	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	10 / 9 / 7
		Heating (Hi/Me/Lo)		10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	10 / 9 / 7	
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690	210 x 1,070 x 690	210 x 1,070 x 690	
	Outdoor			1,300 x 970 x 370				
Net weight	Indoor		kg	28	33	28		
	Outdoor			105				
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		m	Max.100					
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling	°C	-15~43*3					
	Heating		-20~20					
Air filter, Q'ty		Pocket plastic net x 2(Washable)						
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2						

※1 Powerful-Hi can be selected.

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

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

### 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

			Micro Inverter													
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		Cooling/Heating	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		Cooling/Heating			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 ※2	Indoor	Cooling (Hi/Me/Lo)			43 / 38 / 34		45 / 40 / 35		45 / 40 / 36		43 / 38 / 34		45 / 40 / 35		45 / 40 / 36	
		Heating (Hi/Me/Lo)			43 / 38 / 34		45 / 40 / 35		45 / 40 / 36		43 / 38 / 34		45 / 40 / 35		45 / 40 / 36	
Air flow ※2	Outdoor	Cooling/Heating			54 / 56		55/ 57		57 / 59		54 / 56		55/ 57		57 / 59	
		Cooling (Hi/Me/Lo)			26 / 21 / 16.5		29 / 23 / 17		29 / 23 / 18		26 / 21 / 16.5		29 / 23 / 17		29 / 23 / 18	
		Heating (Hi/Me/Lo)	26 / 21 / 16.5		29 / 23 / 17		29 / 23 / 18		26 / 21 / 16.5		29 / 23 / 17		29 / 23 / 18			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm		250 x 1,620 x 690											
					Outdoor	845 x 970 x 370										
Net weight	Indoor		kg		43											
					Outdoor	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, Q'ty				Pocket Plastic net x2(Washable)												
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2												

The values are for simultaneous Multi operation.

			Micro Inverter							
Set model name			FDE100VNAPVG	FDE125VNAPVG	FDE140VNAPVG	FDE140VNATVG	FDE100VSAPVG	FDE125VSAPVG		
			Twin			Triple	Twin			
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			Cooling/Heating	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		Cooling/Heating		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 ※2	Indoor*2	Cooling (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	
		Heating (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	
		Outdoor		Cooling/Heating	54 / 56	55 / 57	57 / 59	57 / 59	54 / 56	55 / 57
				Cooling (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10
Air flow ※2	Indoor*2	Heating (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10		
		Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	28	33		28		33	
	Outdoor			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, Q'ty				Pocket plastic net x 2(Washable)						
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2						

※2 Powerful-Hi can be selected.

Sound pressure level: 100/125VN(S)AVG 48dB(A), 140VN(S)AVG 49dB(A), 100VN(S)APVG 46dB(A), 125VN(S)APVG 47dB(A), 140VNAPVG 47dB(A), 140VNATVG 46dB(A), Air flow: 100/125VN(S)AVG 32m³/min, 140VN(S)AVG 34m³/min, 100VN(S)APVG 13m³/min, 125VN(S)APVG 20m³/min, 140VNAPVG 20m³/min, 140VNATVG 13m³/min



## 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	kW	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			A	5	5	5	5	5
Max. current				15	20	21	15	20
Sound power level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling/Heating	dB(A)	60 / 60	64 / 64	64 / 64	60 / 60	60 / 60
	Outdoor	Cooling/Heating		73 / 73	72 / 74	73 / 75	73 / 73	72 / 74
Sound pressure level* <sup>1</sup> ※1	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo)		41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31	41 / 37 / 32
		Heating (Hi/Me/Lo)		41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31	41 / 37 / 32
	Outdoor	Cooling/Heating		57 / 59	58 / 59	59 / 62	57 / 59	58 / 59
Air flow ※1	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo)	m <sup>3</sup> /min	16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7	16 / 13 / 10
		Heating (Hi/Me/Lo)		16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7	16 / 13 / 10
	Outdoor	Cooling/Heating		75 / 73	135 / 135	143 / 151	75 / 73	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,320 x 690	250 x 1,620 x 690		210 x 1,070 x 690	210 x 1,320 x 690
	Outdoor			845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor		kg	33	43		28	33
	Outdoor			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.50 / Max.15	Max.30 / Max.15
Outdoor operating temperature range		Cooling	°C	-15~50* <sup>3</sup>				
temperature range		Heating		-20~20	-15~20		-20~20	-15~20
Air filter, Q'ty				Pocket plastic net x 2(Washable)				
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2				

The values are for simultaneous Multi operation.

			Micro Inverter	
Set model name			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	kW 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	dB(A)	60 / 60
	Outdoor	Cooling/Heating		72 / 74
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)		38 / 36 / 31
		Heating (Hi/Me/Lo)		41 / 37 / 32
	Outdoor	Cooling/Heating		38 / 36 / 31
		Cooling/Heating		41 / 37 / 32
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo)	m³/min	58 / 59
		Heating (Hi/Me/Lo)		59 / 62
	Outdoor	Cooling/Heating		10 / 9 / 7
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	10 / 9 / 7
	Outdoor			16 / 13 / 10
	Cooling/Heating			135 / 135
Net weight	Indoor		kg	210 x 1,070 x 690
	Outdoor			1,300 x 970 x 370
Ref.piping size Liquid/Gas			ømm 28	33
Refrigerant line (one way) length			9.52(3/8") / 22.22(7/8")	143
Vertical height differences Outdoor is higher/lower			12.7(1/2") / 22.22(7/8")	
Outdoor operating temperature range		Cooling	°C	Max.70
		Heating		Max.30 / Max.15
Air filter, Q'ty			-15~50*3	
Remote control (option)			-15~20	
			Pocket plastic net x 2(Washable)	
			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2	

※1 Powerful-Hi can be selected.

Sound pressure level: 140VSAPVG 47dB(A), 200/250VSAPVG 48dB(A), 140VSATVG 46dB(A), 200VSATVG 47dB(A), 200VSADVG 46dB(A), 250VSADVG 47dB(A)

Air flow: 140VSAPVG 20m³/min, 200/250VSAPVG 32m³/min, 140VSATVG 13m³/min, 200VSATVG 20m³/min, 200VSADVG 13m³/min, 250VSADVG 20m³/min

### NOTES:

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

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

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

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

			Standard Inverter		
Set model name			FDE71VNPVG	FDE90VNPVG	FDE100VNP1VG
Indoor unit			FDE71VG	FDE100VG	FDE100VG
Outdoor unit			FDC71VNP	FDC90VNP	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	kW	2.50 / 1.96	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*2	Cooling/Heating	60 / 60	64 / 64	64 / 64
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	41 / 37 / 32	43 / 38 / 34	43 / 38 / 34
		Heating (Hi/Me/Lo)	41 / 37 / 32	43 / 38 / 34	43 / 38 / 34
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo)	16 / 13 / 10	26 / 21 / 16.5	26 / 21 / 16.5
		Heating (Hi/Me/Lo)	16 / 13 / 10	26 / 21 / 16.5	26 / 21 / 16.5
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,320 x 690	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	kg	33	43	
	Outdoor		45	57	70
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30		
Vertical height differences		Outdoor is higher/lower	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-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2		

※2 Powerful-Hi can be selected.

Sound pressure level: 71VNPVG 47dB(A), 90VNPVG 48dB(A), 100VNP1VG 48dB(A)

Air flow: 71VNPVG 20m³/min, 90VNPVG 32m³/min, 100VNP1VG 32m³/min

# FLOOR STANDING FDF



Wireless remote control (Option)



RCN-KIT4-E2

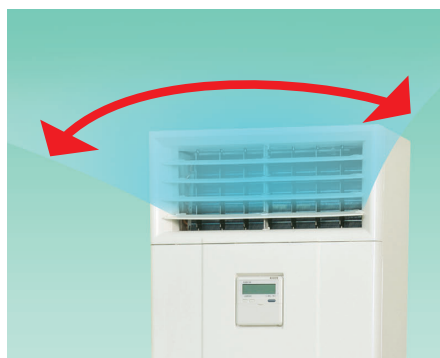


FDF 71/100/125/140

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

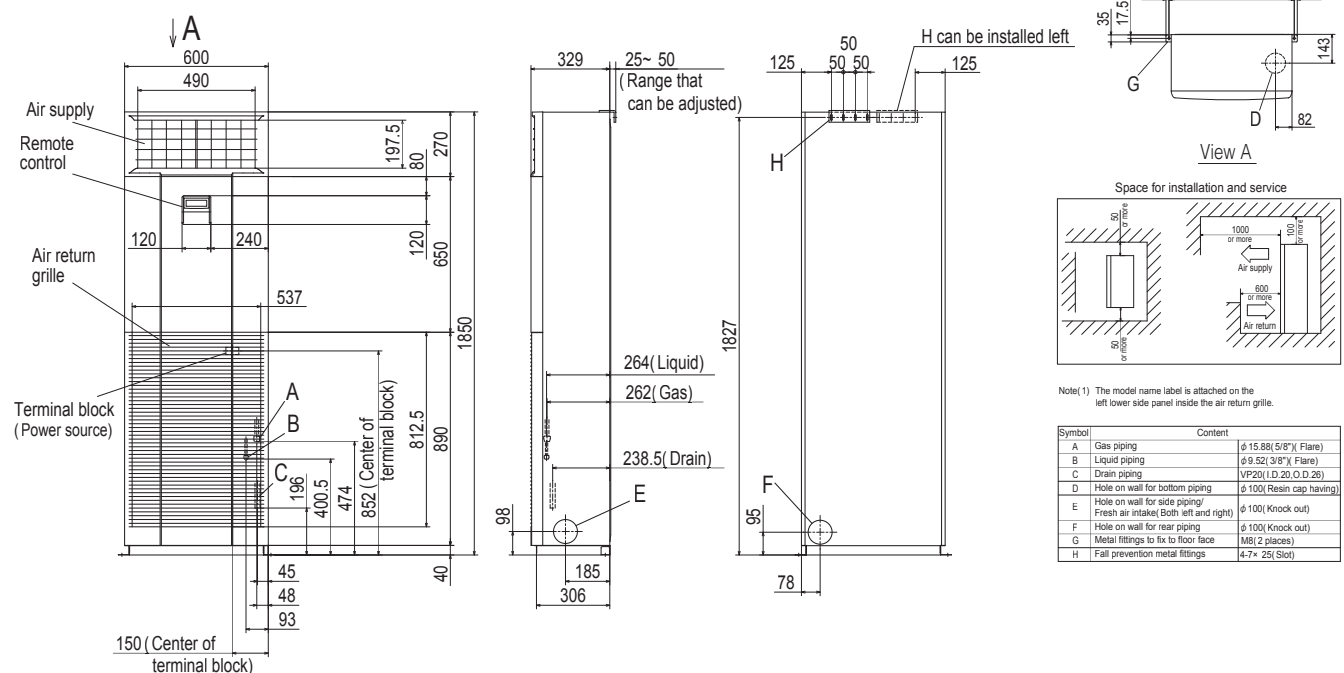
FDC	Hyper Inverter			Micro Inverter	
	71VNX	100~140VN(S)X	100~140VN(S)A	200VSA	250VSA
model					
Chargeless	15m	30m		30m	
Height x Width x Depth (mm)	750 x 880(+71) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

### Standard Inverter

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



**■ DIMENSIONS**(Unit:mm)



## SPECIFICATIONS

				Hyper Inverter						
Set model name				FDF71VN1VD1	FDF100VN1VD2	FDF125VN1VD	FDF140VN1VD	FDF100VSXVD2	FDF125VSXVD	FDF140VSXVD
Indoor unit				FDF71VD1	FDF100VD2	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD
Outdoor unit				FDC71VN1	FDC100VN1	FDC125VN1	FDC140VN1	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption		Cooling/Heating	kW	2.21 / 2.21	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP		Cooling/Heating		3.21 / 3.62	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41
Inrush current			A	5	5	5	5	5	5	5
Max. current				17	24	26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	dB(A)	39 / 35 / 33 39 / 35 / 33	50 / 48 / 44 50 / 48 / 44	50 / 48 / 44 50 / 48 / 44	50 / 48 / 44 50 / 48 / 44	50 / 48 / 44 50 / 48 / 44	50 / 48 / 44 50 / 48 / 44	50 / 48 / 44 50 / 48 / 44
	Outdoor	Cooling/Heating		51 / 48 48 / 50	48 / 50 48 / 50	49 / 52 48 / 50	48 / 50 48 / 50	48 / 50 48 / 50	49 / 52 48 / 50	
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
		Heating (Hi/Me/Lo)		18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
		Outdoor		Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320						
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370					
Net weight	Indoor		kg	49	52					
	Outdoor			60	105					
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50	Max.100					
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15						
Outdoor operating temperature range	Cooling		°C	-15~43*3						
	Heating			-20~20						
Air filter, Q'ty				Plastic net x 1(washable)						
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)						

※1 Powerful-Hi can be selected.

Sound pressure level: 71VN(XVD1 42dB(A), 100VN(S)XVD2 54dB(A), 125/140VN(S)XVD 54dB(A)

Air flow: 71VNXVD1 20m<sup>3</sup>/min, 100VN(S)XVD2 29m<sup>3</sup>/min, 125/140VN(S)XVD 29m<sup>3</sup>/min

NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

		<i>Hyper Inverter</i>	
Set model name		FDF140VNXPD1	FDF140VSXPVD1
		Twin	
Indoor unit		FDF71VD1 x 2	FDF71VD1 x 2
Outdoor unit		FDC140VNX	FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V 60Hz
Nominal cooling capacity (Min~Max)	kW	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating kW	4.83 / 4.97	4.83/ 4.97
EER/COP	Cooling/Heating	2.90 / 3.22	2.90 / 3.22
Inrush current	A	5	5
Max. current		26	15
Sound power level*1	Indoor*2	Cooling/Heating	61 / 61
	Outdoor	Cooling/Heating	72 / 72
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)	39 / 35 / 33
		Heating (Hi/Me/Lo)	39 / 35 / 33
	Outdoor	Cooling/Heating	49 / 52
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo)	16 / 14 / 12
		Heating (Hi/Me/Lo)	16 / 14 / 12
	Outdoor	Cooling/Heating	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth mm	1,850 x 600 x 320
	Outdoor		1,300 x 970 x 370
Net weight	Indoor	kg	49
	Outdoor		105
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.100
Vertical height differences		Outdoor is higher/lower	Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15~43*3
	Heating		-20~20
Air filter, Q'ty			Plastic net x 1(washable)
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)

		<i>Micro Inverter</i>					
Set model name		FDF100VNAVD2	FDF125VNAVD	FDF140VNAVD	FDF100VSAVD2	FDF125VSAVD	FDF140VSAVD
Indoor unit		FDF100VD2	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD
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 ~ 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)	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	3.12 / 2.94	4.65 / 4.14	5.02 / 4.98	3.12 / 2.94	4.65/ 4.14	5.42 / 4.98
EER/COP	Cooling/Heating	3.21 / 3.81	2.69 / 3.38	2.59 / 3.11	3.21 / 3.81	2.69 / 3.38	2.51 / 3.11
Inrush current	A	5	5	5	5	5	5
Max. current		24	24	24	15	15	15
Sound power level*1	Indoor	Cooling/Heating	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	70 / 70	71 / 71
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44
		Heating (Hi/Me/Lo)	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	54 / 56	55 / 57
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
		Heating (Hi/Me/Lo)	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth mm	1,850 x 600 x 320				
	Outdoor		845 x 970 x 370				
Net weight	Indoor	kg	52				
	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	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)				

※1 Powerful-Hi can be selected.

Sound pressure level: 140VN(S)XPVD1 42dB(A), 100VN(S)AVD2 54dB(A), 125/140VN(S)AVD 54dB(A)

Air flow: 140VN(S)XPVD1 18m³/min, 100VN(S)AVD2 29m³/min, 125/140VN(S)AVD 29m³/min

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter				
Set model name			FDF140VNAPVD1	FDF140VSAPVD1	FDF200VSAPVD2	FDF250VSAPVD	
			Twin				
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	5	
Max. current			24	15	20	21	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	61 / 61	65 / 65	73 / 73	
	Outdoor	Cooling/Heating		73 / 73	72 / 74	73 / 75	
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		39 / 35 / 33	39 / 35 / 33	50 / 48 / 44	
	Indoor*2	Heating (Hi/Me/Lo)		39 / 35 / 33	39 / 35 / 33	50 / 48 / 44	
Air flow ※2	Outdoor	Cooling/Heating		57 / 59	57 / 59	58 / 59	59 / 62
	Indoor*2	Cooling (Hi/Me/Lo)		16 / 14 / 12	16 / 14 / 12	26 / 23 / 19	26 / 23 / 19
		Heating (Hi/Me/Lo)	16 / 14 / 12	16 / 14 / 12	26 / 23 / 19	26 / 23 / 19	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320			
	Outdoor			845 x 970 x 370			
Net weight	Indoor		kg	49		52	
	Outdoor			80 82		115 143	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	
Refrigerant line (one way) length			m	Max.50		Max.70	
Vertical height differences			Outdoor is higher/lower	m	Max.50 / Max.15		Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15~50*3		-15~20		
	Heating		-20~20				
Air filter, Q'ty			Plastic net x 1(washable)				
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)				

			Standard Inverter				
Set model name			FDF71VNPVD1	FDF90VNPVD2	FDF100VNP1VD2		
Indoor unit			FDF71VD1	FDF100VD2	FDF100VD2		
Outdoor unit			FDC71VNP	FDC90VNP	FDC100VNP		
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )		
Nominal heating capacity (Min~Max)			kW 7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )		
Power consumption		Cooling/Heating	kW 2.63 / 2.08	2.79 / 2.25	3.19 / 3.09		
EER/COP		Cooling/Heating	2.70 / 3.41	3.23 / 4.00	3.13 / 3.62		
Inrush current		A	5	5	5		
Max. current			14.5	18.0	21.0		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	65 / 65	
	Outdoor	Cooling/Heating		67 / 67	69 / 69	70 / 70	
Sound pressure level*1 ※2	Indoor	Cooling (Hi/Me/Lo)		39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	
	Indoor	Heating (Hi/Me/Lo)		39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	
Air flow ※2	Outdoor	Cooling/Heating	m³/min	54 / 54	57 / 55	57 / 61	
		Cooling (Hi/Me/Lo)		18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	
	Indoor	Heating (Hi/Me/Lo)		18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	
		Outdoor		Cooling/Heating	36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320			
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370	
Net weight	Indoor		kg	49	52		
	Outdoor			45	57	70	
Ref.piping size		Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.23		Max.30	
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20			
Outdoor operating temperature range	Cooling		°C	-15~46*3			
	Heating			-15~20			
Air filter, Q'ty			Plastic net x1 (Washable)				
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)				

※2 Powerful-Hi can be selected.


Sound pressure level: 42dB(A), 140VN(S)APVD1 42dB(A), 200VSAPVD2 54dB(A), 250VSAPVD 54dB(A), 71VNPVD1 42dB(A), 90VNPVD2 54dB(A), 100VNP1VD2 54dB(A)

Air flow: 140VN(S)APVD1 18m³/min, 200VSAPVD2 29m³/min, 250VSAPVD 29m³/min, 71VNPVD1 20m³/min, 90VNPVD2 29m³/min, 100VNP1VD2 29m³/min










# BENEFITS SUMMARY

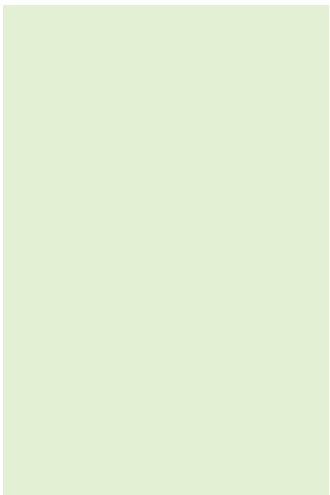
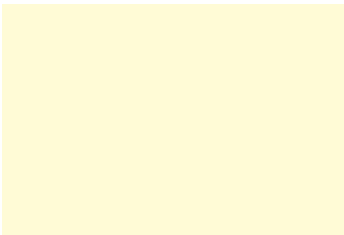
## Indoor units

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

Economy	<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>	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.
	<b>Set temperature auto return ※</b>	The temperature automatically returns to the previously set temperature.
Comfort	<b>Automatic operation</b>	The air conditioner automatically selects from among heating, cooling operations.
	<b>Silent mode</b>	The unit can be set to prioritise the period of time it operates at a lower noise level.
	<b>Draft prevention</b>	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draft. After warming up, air discharge and fan speed are set as desired.
	<b>Hi power mode ※</b>	The high power operation adjusts the room temperature quickly to a pleasant level by increasing the operation capacity. The high power operation continues for 15 minutes at maximum and returns to the normal operation automatically.
Air flow	<b>Flap control system</b>	Motion range (upper and lower limit positions) of the flap at each air outlet can be set at a desired range individually.
	<b>Vertical auto swing</b>	Flap moves up and down continuously. The Up/Down flap swing can be fixed at the preferred operation angle.
	<b>Ceiling stain prevention</b>	The shape & angled louver redirects the air current away from the ceiling reducing ceiling stains.
	<b>Automatic fan speed</b>	The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature.
Timer	<b>Sleep timer</b>	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).
	<b>Peak-cut timer ※</b>	Capacity control can be set by using peak cut function on RC-EX3 for better energy saving. Five-step capacity control is available.
	<b>Weekly timer</b>	On or Off timer can be set on a weekly basis.
Convenient	<b>Function Switch ※</b>	The function switch allows user to select and set two functions among six available functions. (Cannot be used when a centralied control remote is connected)
	<b>Favorite setting ※</b>	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	<b>Static pressure adjustment</b>	This is operable when connecting duct type indoor units equipped with the external static pressure adjustment function. It will adjust the airflow accordingly based on the connected duct static pressure.
	<b>Remote control</b>	User can select wired remote controls, wireless remote controls or central remote controls.
	<b>Select the language ※</b>	Set the language to be displayed on the remote control.
	<b>Air filter</b>	Removes airborne dust particles through the air filter to ensure a steady supply of clean air.
	<b>Filter sign</b>	Announces the due time for cleaning of the air filter.
	<b>Outside air intake</b>	Outside fresh air can be taken inside.
Others	<b>Self-diagnosis</b>	In the case that the air conditioner malfunctions, an internal microcomputer automatically runs a self-diagnosis. (Inspection and repair should be performed by authorized dealers.)
	<b>Drain up</b>	It allows for a flexible piping layout for condensate allowing a high degree of freedom depending on the installation location

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

\*1 : Except 200・250



# CONTROL SYSTEMS

## Remote Control line up

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

## Wired remote control (option)

### RC-EX3

#### Easy touch and Easy view with full dot Liquid Crystal display

##### User friendly

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

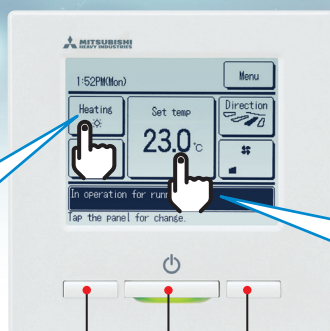
##### Easy view

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

##### Operation mode setting screen

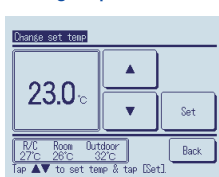


The desired operation mode can be selected by simply tapping this button.



##### Run / Stop

##### Setting temperature screen



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

##### Operation mode



##### High power operation

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

##### Energy-saving operation

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

## Main functions

	Function name	Description
Economy & Timer	Energy-saving operation	Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.
	Sleep timer	Set the time period from start to stop of operation. The selectable range of setting time is from 30 to 240 minutes (at 10-minute intervals).
	Set temperature auto return	The temperature automatically returns to the previously set temperature.
	Set ON timer by hour	When the set time elapses, the air conditioner starts.
	Set OFF timer by hour	When the set time elapses, the air conditioner stops.
	Set ON timer by clock	The air conditioner starts at the set time.
	Set OFF timer by clock	The air conditioner stops at the set time.
	Weekly timer	On or Off timer can be set on a weekly basis.
	Peak-cut timer	Capacity control can be set by using peak cut function on RC-EX3 for better energy saving. Five-step capacity control is available.
	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 six 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.

## 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-24W-E2



### RCN-KIT4-E2



### RCN-E-E2



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

## Wired remote control (option)

### RC-E5

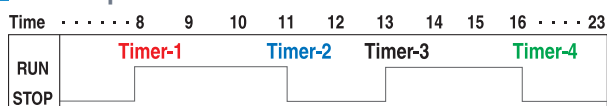


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

#### Weekly timer function as standard

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

#### Timer operation

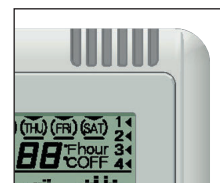


#### Run hour meters to facilitate maintenance checking

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

#### Room temperature controlled by the remote control sensor

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



#### Changeable set temperature ranges

RC-E5 allows the upper and lower limits of a set temperature range to be specified separately. By adjusting a set temperature range, you can ensure energy saving air conditioning by avoiding excessive cooling or heating.

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

## Simple remote control (option)

### RCH-E3 (wired)



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

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

#### Up to 16 units

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

#### AUTO restart

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

## Thermistor (option)

### SC-THB-E3

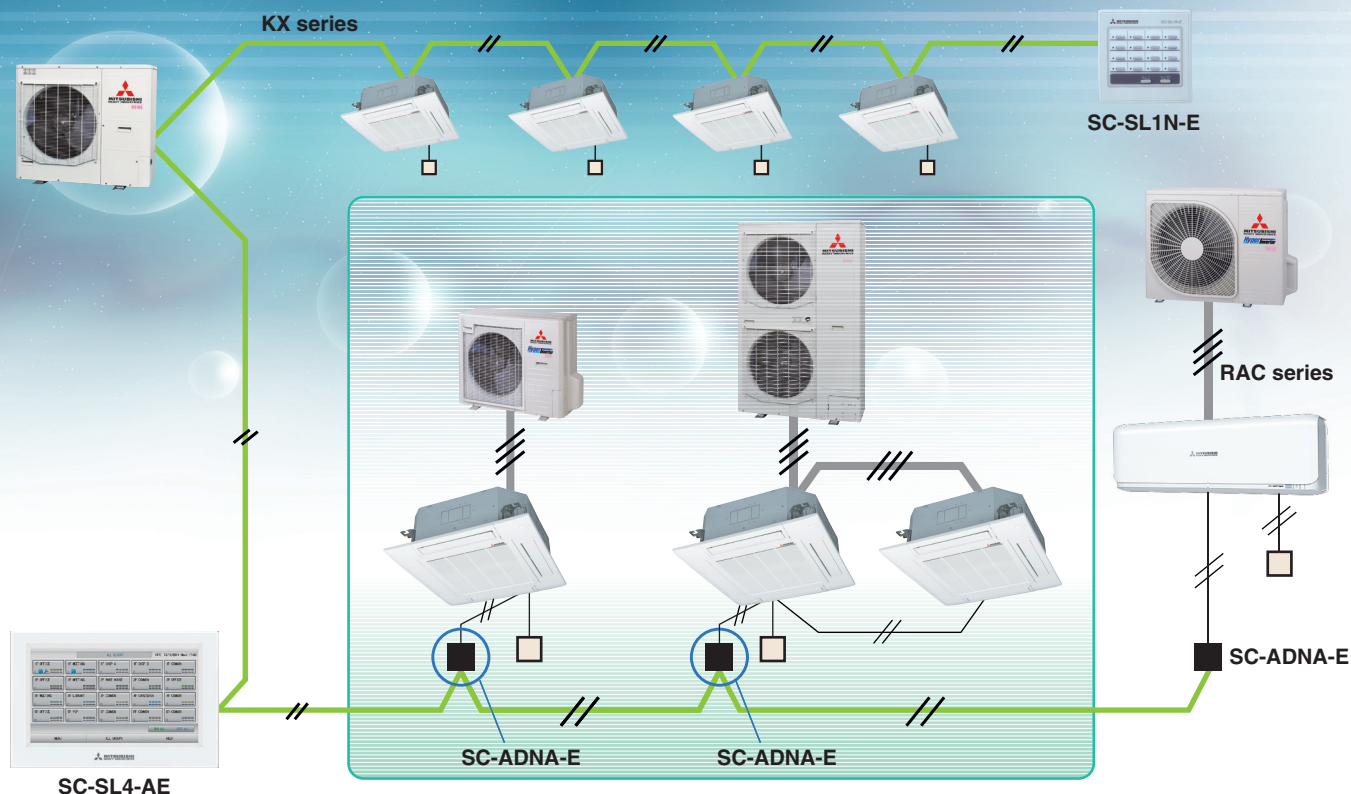
In case sensor in the indoor units or the remote control sensor can not sense the room temperature correctly, or individual remote control in each room is not required but only sensor is required (as when center control system is in place), install SC-THB-E3 at proper place in the rooms.





# CONTROL SYSTEMS

## SUPERLINK-II



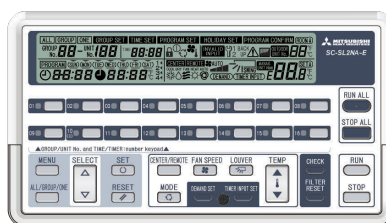
### Central Control

#### SC-SL1N-E



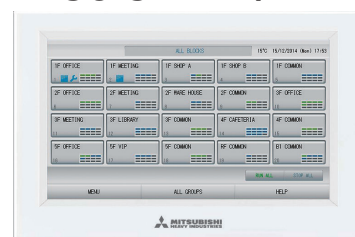
Start/stop control of up to 16 indoor units is possible either individually or collectively. With simple operations, you can effect centralized control.

#### SC-SL2NA-E



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

#### SC-SL4-AE/BE



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

### Building Management Systems

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

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

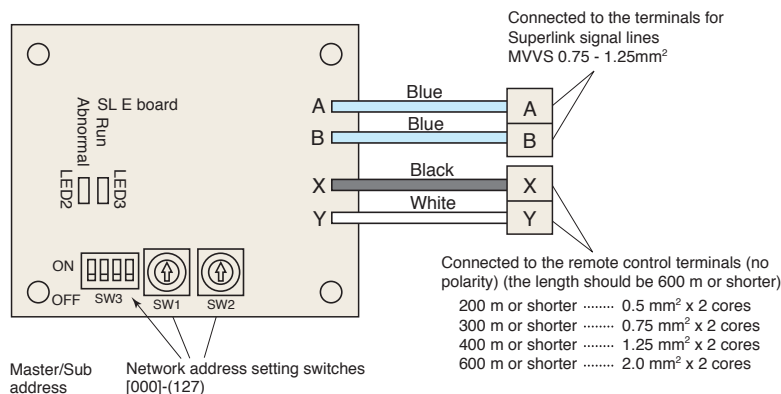
## SUPERLINK E BOARD (SC-ADNA-E)

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

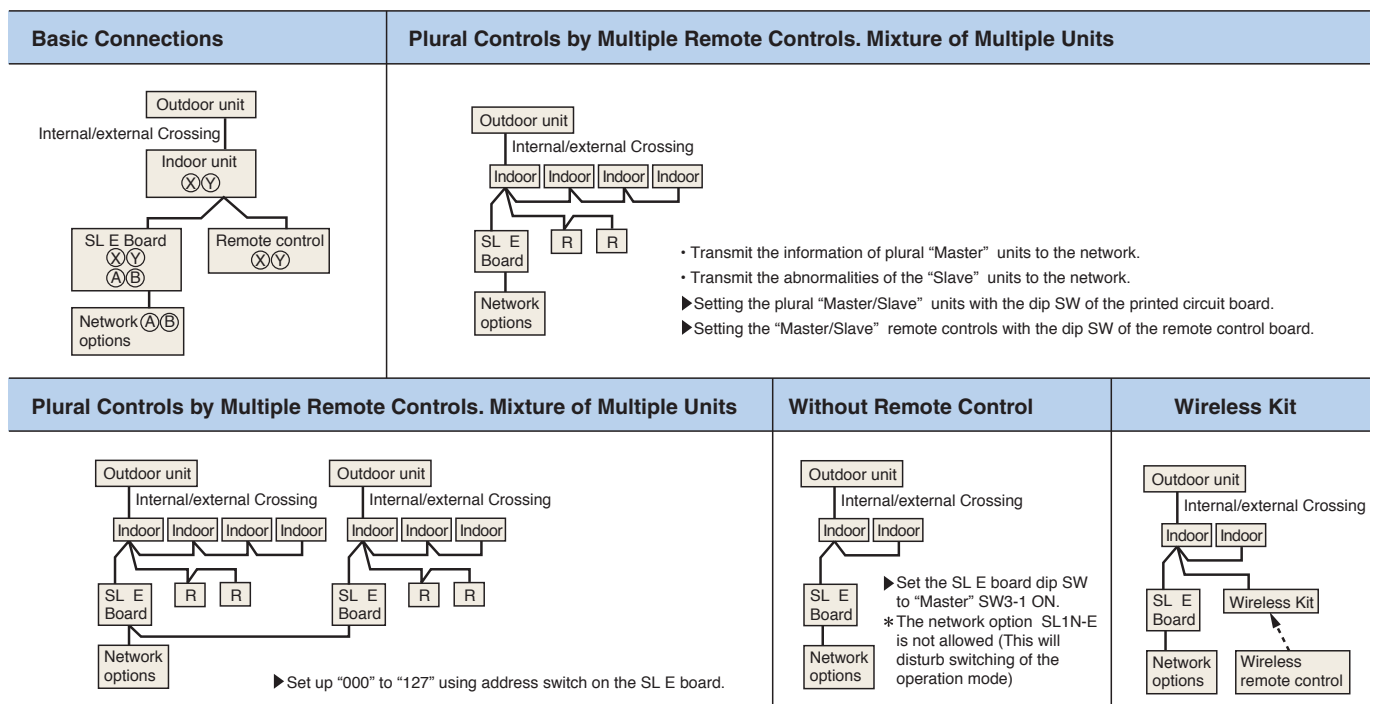
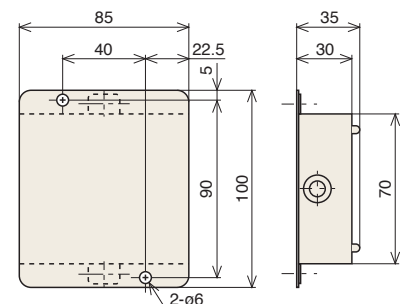
### (1) Functions

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

### (2) Wiring connection diagram



### (3) Metal box dimension (unit:mm)



## External switch connection CNT, CNTA

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



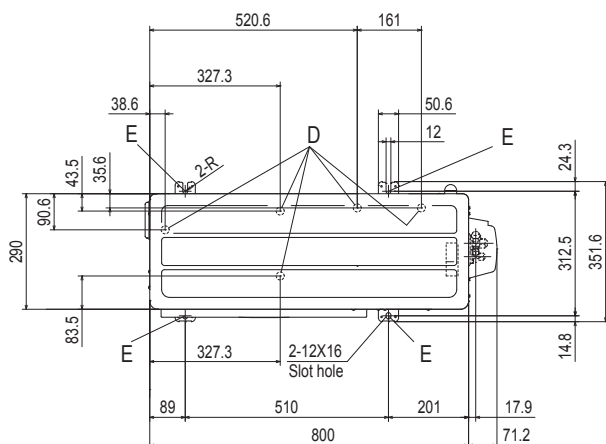
Remote surveillance system



Card key on-off

# OUTDOOR UNIT DIMENSIONS (unit:mm)

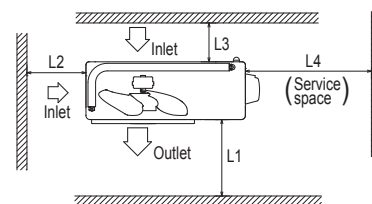
## SRC40ZSX-S, 50ZSX-S, 60ZSX-S



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

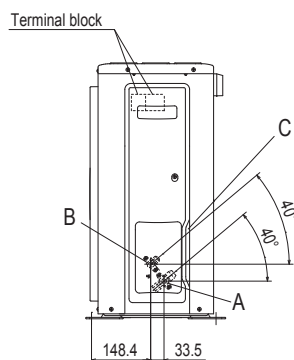
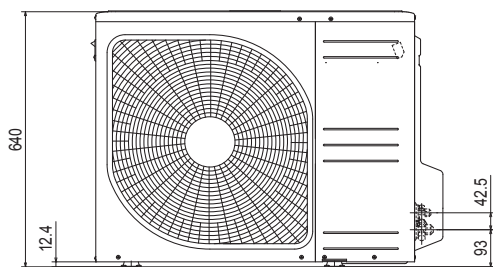
### Notes

- (1) The unit must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
- (4) Leave 200mm or more space above the unit.
- (5) The wall height on the outlet side should be 1200mm or less.
- (6) The model name label is attached on the front side of the unit.



Minimum installation space

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

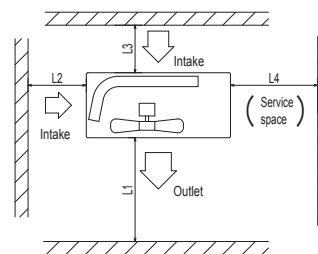
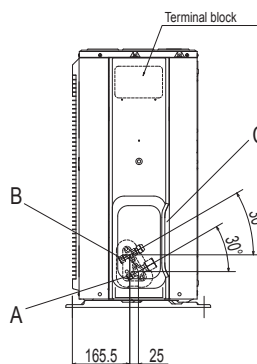
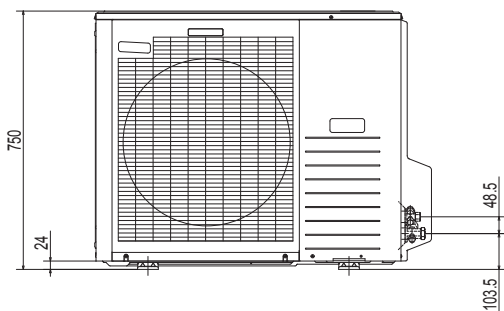
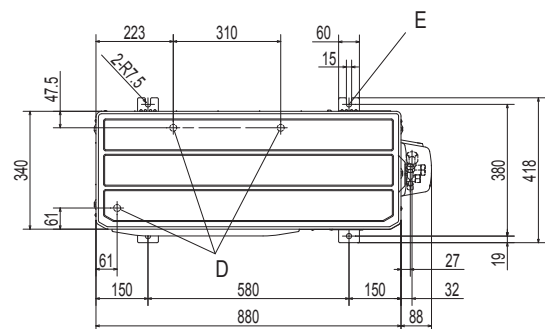


## FDC71VNX

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

### Notes

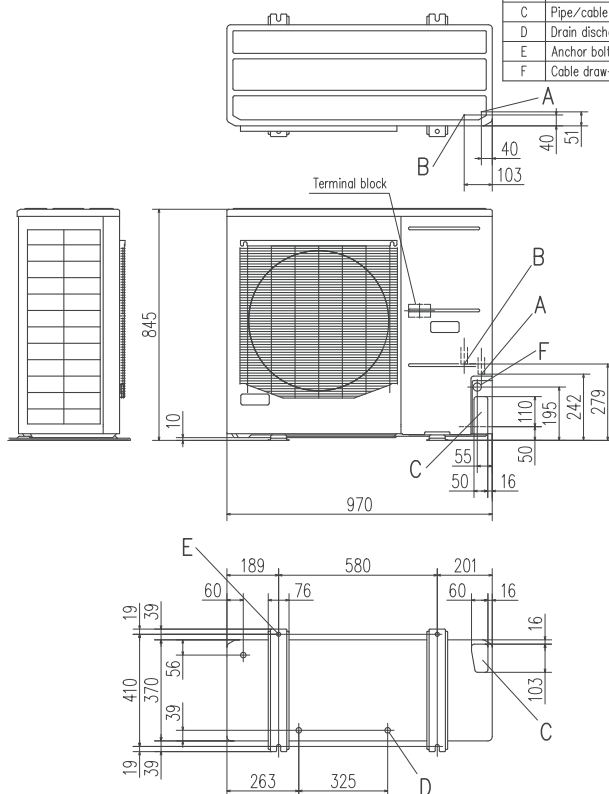
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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



Minimum installation space

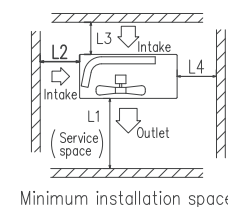
Examples of installation	I	II	III
Dimensions			
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

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



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

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



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





Technical drawing of the C71VNP air conditioning unit, showing top and front views with dimensions in mm.

**Top View Dimensions:**

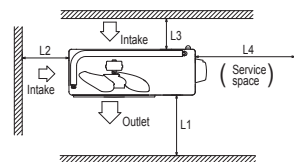
- Overall Width: 800
- Overall Depth: 351.6
- Distance from left wall to start of unit: 290
- Distance from left wall to center of unit: 510
- Distance from right wall to end of unit: 71.2
- Distance from left wall to start of indoor unit: 89
- Distance from left wall to center of indoor unit: 327.3
- Distance from right wall to end of indoor unit: 201
- Distance from left wall to start of outdoor unit: 83.5
- Distance from left wall to center of outdoor unit: 327.3
- Distance from right wall to end of outdoor unit: 17.9
- Distance from left wall to start of condenser coils: 90.6
- Distance from left wall to center of condenser coils: 43.5
- Distance from right wall to end of condenser coils: 24.3
- Distance from left wall to start of fan: 38.6
- Distance from left wall to center of fan: 35.6
- Distance from right wall to end of fan: 14.8
- Distance from left wall to start of compressor: 161
- Distance from left wall to center of compressor: 520.6
- Distance from right wall to end of compressor: 50.6
- Distance from left wall to start of fan (indoor): 12
- Distance from left wall to center of fan (indoor): 50.6
- Distance from right wall to end of fan (indoor): 12

**Front View Dimensions:**

- Overall Height: 640
- Overall Width: 800
- Distance from top to start of unit: 12.4
- Distance from top to center of unit: 42.5
- Distance from bottom to end of unit: 93

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.

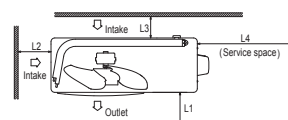


Minimum installation space

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

[illegible]

- 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

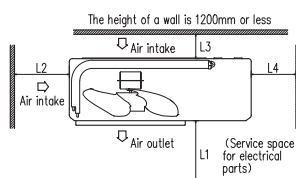
Examples of installation Dimensions	I	II	III
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

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

[illegible]

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 units height.
  - (6) The model name label is attached on the service panel.



Minimum installation space

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

Unit: mm

# ENERGY 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.

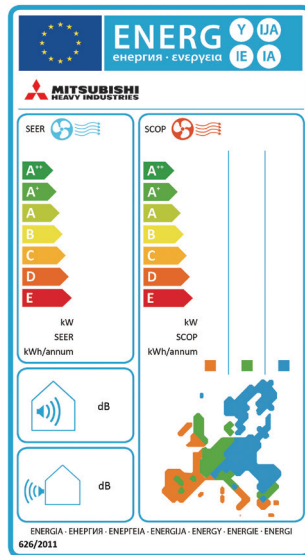
Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

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	FD40VG	FD50VG	FD60VG	FD71VG	FD100VG	FD100VG	FD40VGx2	FD50VGx2	FD50VGx2
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
Annual electricity consumption (cooling/heating)	kWh/a	170/1197	226/1246	238/1317	435/1870	594/3626	431/1872	592/3774	592/3774
Refrigerant (R410A)	GWP	1.5/3.132			2.95/6.160	4.5/9.396	2.95/6.160	4.5/9.396	
charge	kg/TCO <sub>2</sub> e								
Designated heating season		Average							

Indoor unit	FD100VG	FD100VG	FD50VGx2	FD50VGx2	FD71VG	FD100VG	FD100VG	FDTC40VF	FDTC50VF
Outdoor unit	FDC100VNA	FDC100VNA	FDC100VNA	FDC100VNA	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZSX-S	SRC50ZSX-S
Energy class (cooling/heating)	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A+/A+
SEER	6.78	6.78	6.89	6.89	6.14	6.78	6.78	6.53	6.01
SCOP (Average climate)	4.52	4.52	4.47	4.47	4.27	4.12	4.53	3.96	3.85
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	10.0/8.5	7.1/5.7	9.0/8.1	10.0/8.1	4.0/4.0	5.0/4.8
Annual electricity consumption (cooling/heating)	kWh/a	516/2631	516/2631	508/2662	508/2662	405/1870	465/2756	517/2505	215/1416
Refrigerant (R410A)	GWP	3.8/7.934			1.6/3.341	2.1/4.385	2.55/5.324	1.5/3.132	
charge	kg/TCO <sub>2</sub> e								
Designated heating season		Average							

Indoor unit	FDTC60VF	FDTC40VFx2	FDTC50VFx2	FDTC50VFx2	FDTC50VFx2	FDTC50VFx2	FD71VF1	FDU100VF2	FDU100VF2
Outdoor unit	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VNX	FDC100VNX	FDC100VNA	FDC100VNA	FDC71VNX	FDC100VNX
Energy class (cooling/heating)	A+/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A+	A/A+
SEER	5.76	5.31	5.23	5.19	5.48	5.48	5.24	5.22	5.19
SCOP (Average climate)	3.80	3.88	3.87	3.86	3.93	3.93	3.90	4.10	4.10
Pdesign (cooling/heating (@-10°C))	kW	5.6/5.9	7.1/6.8	10.0/10.2	10.0/10.2	10.0/8.5	10.0/8.5	7.1/7.0	10.0/13.0
Annual electricity consumption (cooling/heating)	kWh/a	341/2172	468/2455	670/3692	674/3695	640/3029	640/3029	475/2513	670/4437
Refrigerant (R410A)	GWP	1.5/3.132	2.95/6.160	4.5/9.396	3.8/7.934	2.95/6.160	4.5/9.396		
charge	kg/TCO <sub>2</sub> e								
Designated heating season		Average							

Indoor unit	FDU100VF2	FDU100VF2	FDU71VF1	FDU100VF2	FDU100VF2	FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1
Outdoor unit	FDC100VNA	FDC100VNA	FDC71VNP	FDC90VNP	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	5.71	6.86	6.36	6.01	5.68	6.42	5.24
SCOP (Average climate)	4.19	4.19	4.00	4.20	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
Annual electricity consumption (cooling/heating)	kWh/a	573/2843	573/2843	436/1996	459/2703	551/2746	233/1182	309/1382	306/1731
Refrigerant (R410A)	GWP	3.8/7.934	1.6/3.341	2.1/4.385	2.55/5.324	1.5/3.132	2.95/6.160		
charge	kg/TCO <sub>2</sub> e								
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		FUDM100VF2	FUDM100VF2	FUDM40VFX2	FUDM50VFX2	FUDM50VFX2	FUDM100VF2	FUDM100VF2	FUDM50VFX2	FUDM50VFX2
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	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	637/3022
Refrigerant (R410A)	GWP charge kg/TCO <sub>2</sub> e	1975								
Designated heating season		Average								

Indoor unit		FUDM71VF1	FUDM100VF2	FUDM100VF2	SRK50ZSX-Sx2	SRK50ZSX-Sx2	SRK100ZR-S	SRK100ZR-S	SRK50ZSX-Sx2	SRK50ZSX-Sx2	SRK100ZR-S
Outdoor unit		FDC71VNP	FDC90VNP	FDC100VNP	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	FDC100VNA	FDC100VSA	FDC100VNP
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		5.71	6.86	6.36	6.11	6.11	6.26	6.26	6.55	6.55	6.60
SCOP (Average climate)		4.00	4.20	4.13	4.16	4.16	4.33	4.33	4.47	4.47	4.40
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	10.0/8.5	10.0/8.5	10.0/7.2
Annual electricity consumption (cooling/heating)	kWh/a	436/1996	459/2703	551/2746	574/3504	574/3504	560/2750	560/2750	535/2665	535/2665	531/2289
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		3.8/7.934		2.55/5.324
Designated heating season		Average									

Indoor unit		FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG	FDE100VG	FDE40VGx2	FDE50VGx2	FDE50VGx2
Outdoor unit		SRK40ZSX-S	SRK50ZSX-S	SRK60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)		A++/A	A++/A	A++/A+	B/A+	A+/A+	A+/A+	A/A+	A/A	A/A
SEER		6.46	6.10	6.72	4.87	5.89	5.84	5.26	5.53	5.49
SCOP (Average climate)		3.93	3.92	4.08	4.00	4.18	4.17	4.09	3.94	3.94
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.0	5.0/3.8	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
Annual electricity consumption (cooling/heating)	kWh/a	217/1069	288/1358	292/1475	511/2102	595/3754	599/3758	473/2054	634/3836	638/3840
Refrigerant (R410A)	GWP charge kg/TCO <sub>2</sub> e	1975								
Designated heating season		Average								

Indoor unit		FDE100VG	FDE100VSA	FDE50VGx2	FDE50VGx2	FDE71VG	FDE100VG	FDE100VG	FDF71VD1	FDF100VD2
Outdoor unit		FDC100VNA	FDC100VSA	FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP	FDC100VNP	FDC71VNX	FDC100VNX
Energy class (cooling/heating)		A++/A+	A++/A+	A+/A+	A+/A+	A++/A+	A++/A+	A++/A+	B/A	A/A
SEER		6.35	6.35	5.71	5.71	6.35	6.63	6.73	4.80	5.20
SCOP (Average climate)		4.31	4.31	4.10	4.10	4.22	4.25	4.44	3.81	3.80
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	7.1/5.8	9.0/8.2	10.0/8.1	7.1/6.7	10.0/13.0
Annual electricity consumption (cooling/heating)	kWh/a	552/2762	552/2762	613/2904	613/2904	392/1925	475/2704	521/2556	518/2464	673/4792
Refrigerant (R410A)	GWP charge kg/TCO <sub>2</sub> e	1975								
Designated heating season		Average								

Indoor unit		FDF100VD2	FDF100VD2	FDF100VD2	FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit		FDC100VSX	FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP	FDC100VNP
Energy class (cooling/heating)		A/A	A+/A+	A+/A+	A/A	A+/A+	A/A
SEER		5.17	5.70	5.70	5.24	5.69	5.41
SCOP (Average climate)		3.80	4.00	4.00	3.91	4.01	3.94
Pdesign (cooling/heating (@-10°C))	kW	10.0/13.0	10.0/8.5	10.0/8.5	7.1/5.5	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	678/4795	614/2978	614/2978	475/1972	555/2826	647/2875
Refrigerant (R410A)	GWP charge kg/TCO <sub>2</sub> e	1975					
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	FDT125VF
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		FDT125VF	FDT125VF	FDT140VF	FDT125VF	FDT140VF	FDT125VF	FDT140VF	FDT200VG	FDT250VG
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		FDT125VF	FDT140VF	FDT125VF	FDT140VF	FDT125VF	FDT140VF	FDT125VF	FDT140VF	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	FDF125VD	FDF140VD
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		FDF125VD	FDF140VD	FDF125VD	FDF140VD	FDF125VD	FDF140VD
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.



**MITSUBISHI HEAVY INDUSTRIES  
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