

# High Performance Air-Conditioning 2017



CE

50/60Hz

17P01E

**FD** series

Inverter Packaged Air-Conditioners







## High Performance Air-Conditioning FDseries

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

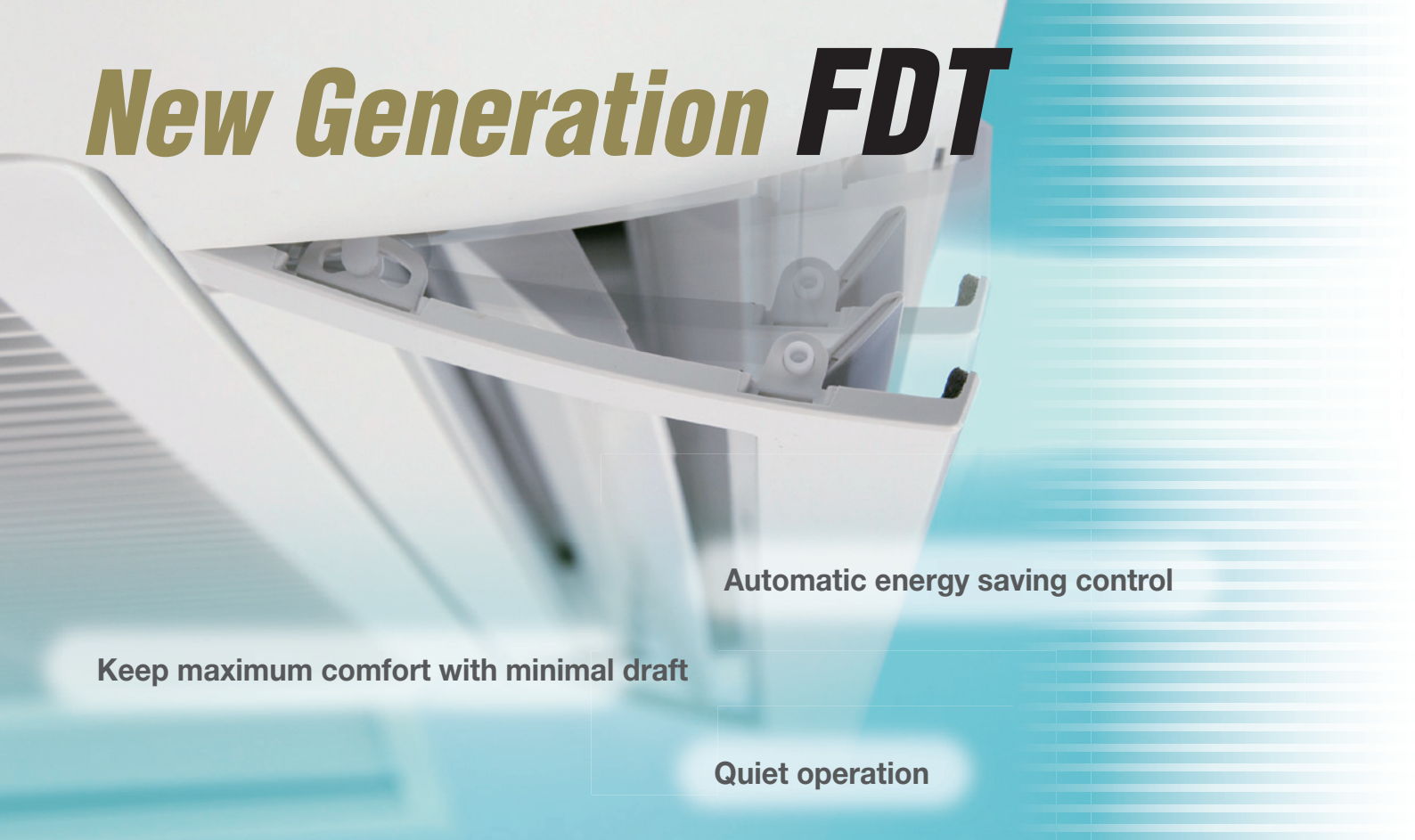
The modern and attractive design of our indoor units is harmoniously integrated in the any atmosphere creating a pleasant and relaxing environment.

## CONTENTS

<b>PRODUCT INFORMATION</b>	<b>page 4</b>
<b>PRODUCT LINE UP</b>	<b>page 18</b>
<b>BENEFITS SUMMARY</b>	<b>page 22</b>
<b>PRODUCT SERIES</b>	<b>page 24</b>
<b>CONTROL SYSTEMS</b>	<b>page 62</b>
<b>OUTDOOR UNIT DIMENSIONS</b>	<b>page 66</b>
<b>ENERGY LABEL (FOR EU / EEA AREA ONLY)</b>	<b>page 70</b>



# New Generation FDT



Automatic energy saving control

Keep maximum comfort with minimal draft

Quiet operation

**New!**

## Draft Prevention Panel (Option)

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

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

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

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



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

**New!**

## Motion Sensor (Option)

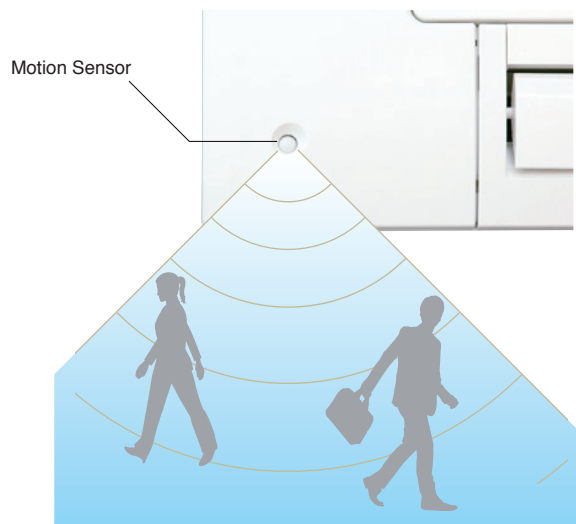
Two energy saving control by detecting human moving

### Power Control

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

### Auto-off

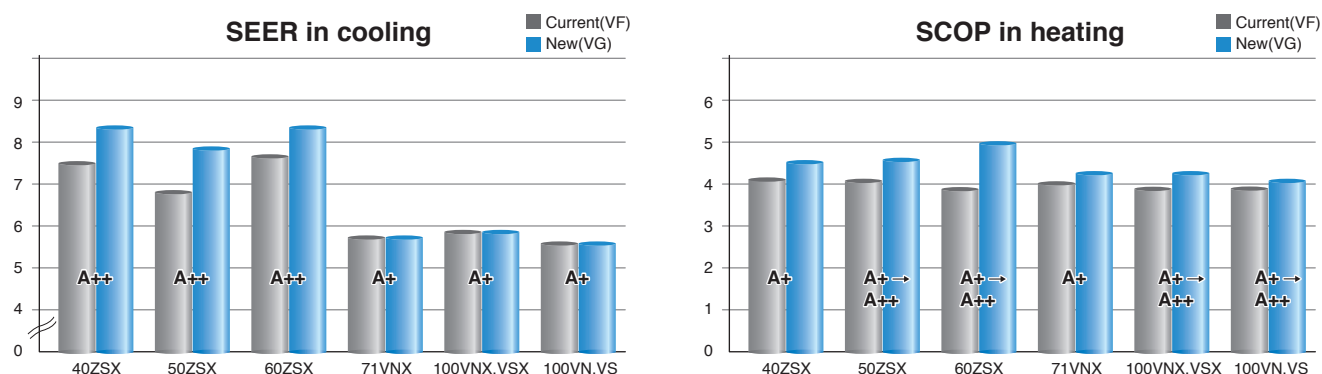
Unit will go off automatically when no activity is detected for 12 hours.





## High energy efficiency with new technology

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

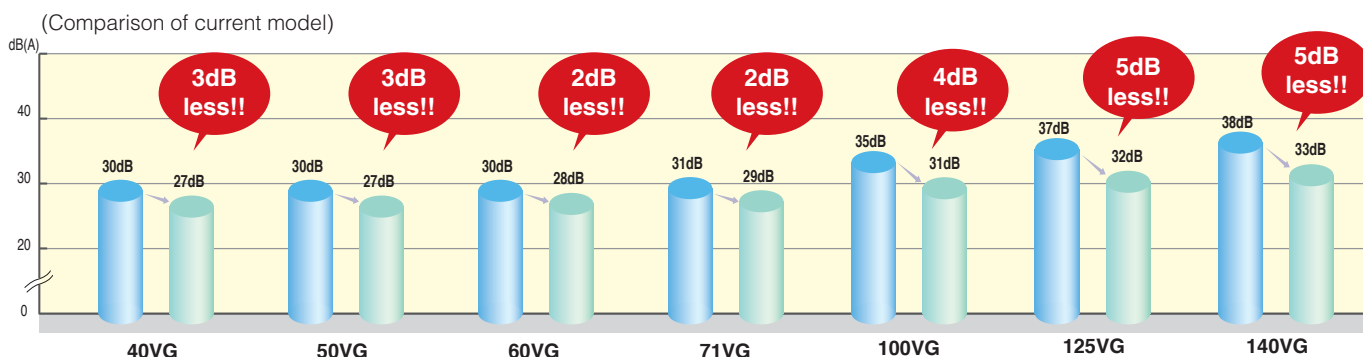


● SEER and SCOP is defined in European regulations. Please refer to P70.

## More quiet noise

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

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

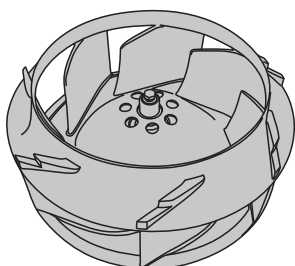


## Improve the aerodynamic performance of the unit

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

● New design turbo fan

● Fan guard (standard equipment)







Ceiling cassette  
FDT-VG series



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

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

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

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

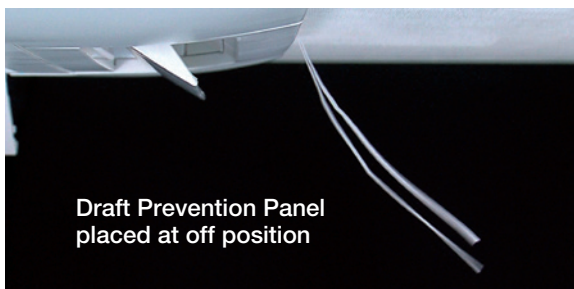
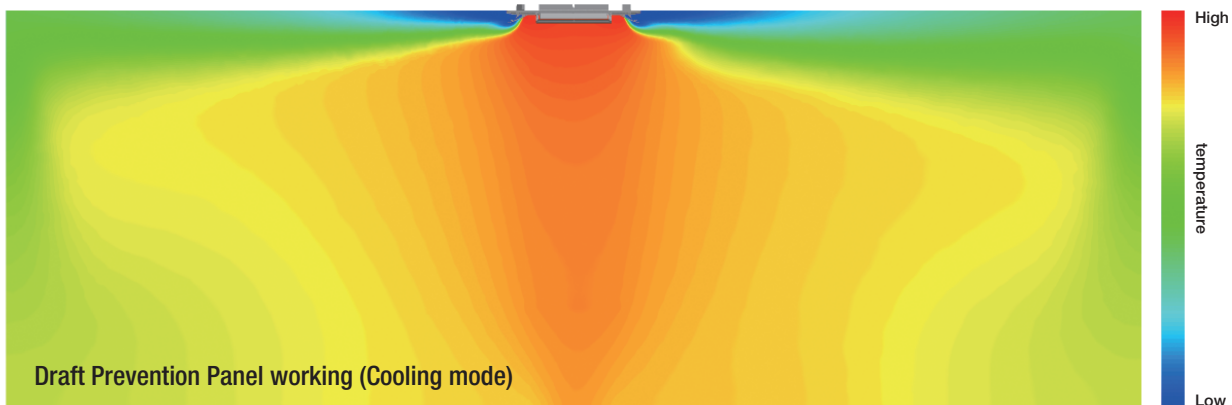
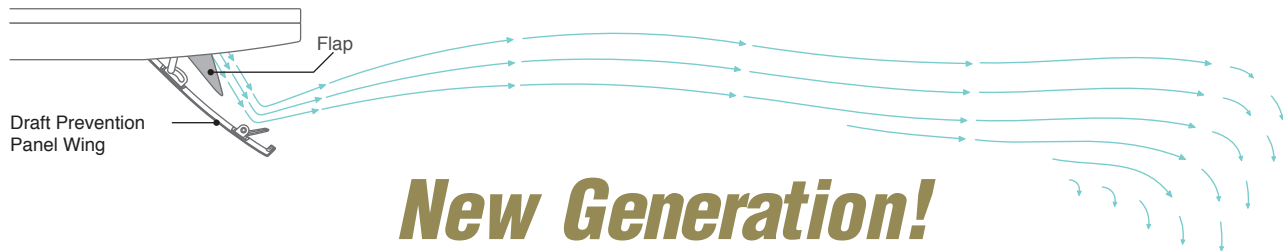
User



## Draft Prevention Panel

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

Draft Prevention Panel Operating Image



Draft Prevention Panel  
placed at off position



Draft Prevention Panel working

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

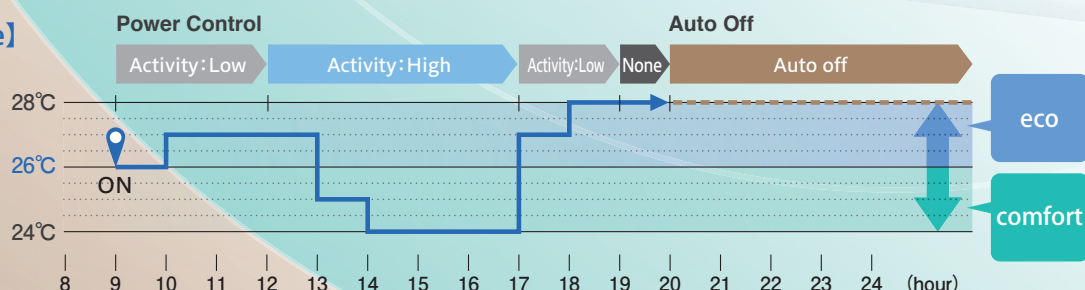
### Auto Off

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

[temperature]

26°C

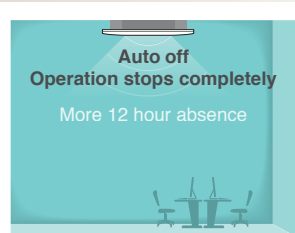
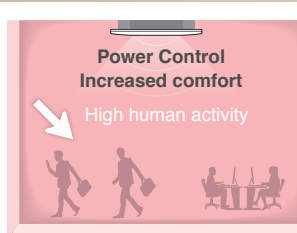
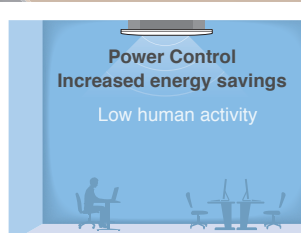
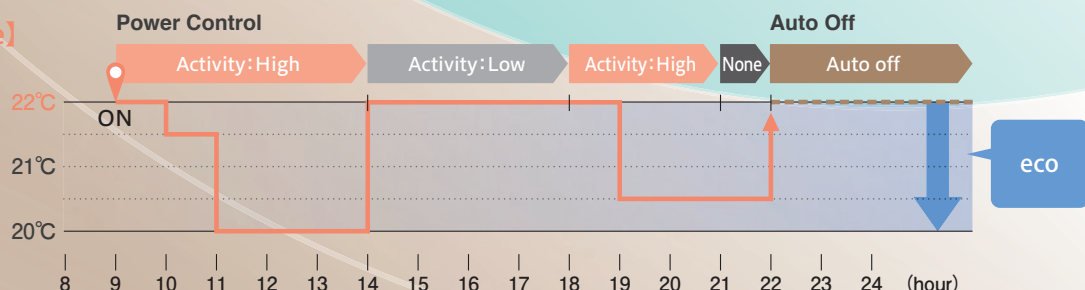
in cooling



[temperature]

22°C

in heating



Operation mode and Control of Motion sensor

eco operation  
comfort operation

Operation mode

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

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

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



# Serviceability & workability

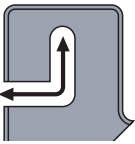
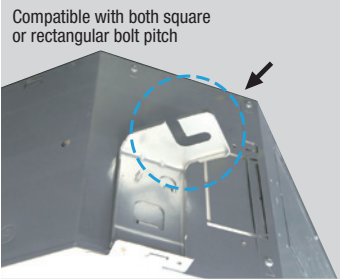

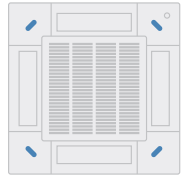
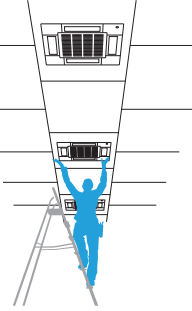
## Easy and quick installation and maintenance

Builder Maintenance


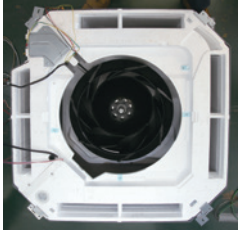
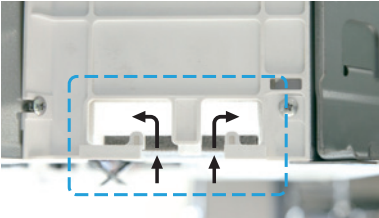
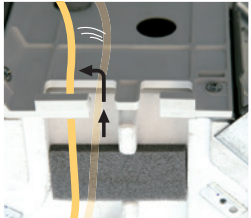
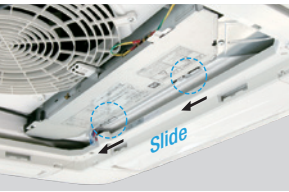
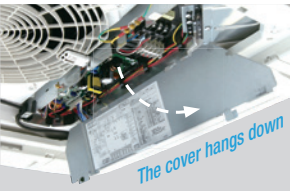
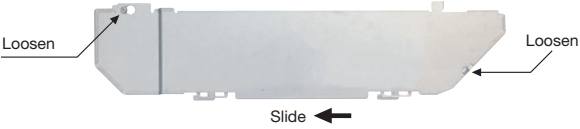

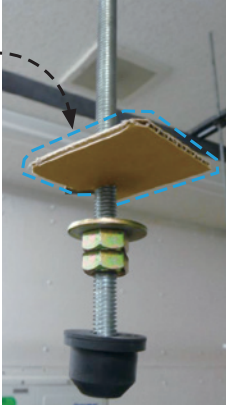
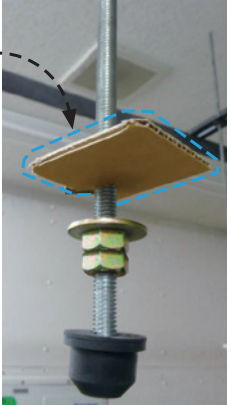


Quick positioning !

## Indoor unit is easily positioned and installed

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

<p><b>1</b> Easy access to component part for easy maintenance.</p> <p><b>1</b> The control box and bell mouth can be removed together.</p>  <p>Control box</p> <p>Bell mouth</p> <p><b>2</b> Easy access to impeller and fan motor.</p> 	<p><b>2</b> New shape of path of wiring</p> <p>New shape of path gives easy wiring work for installation.</p>  
<p><b>3</b> No need to remove screws to take off the controller cover.</p> <p>It is possible to loose and slide open the cover without remove of the screws. This prevents the cover from falling and damaging to stuffs on site.</p>  <p>Slide</p>  <p>The cover hangs down</p>  <p>Loosen</p> <p>Slide</p> <p>Loosen</p>	<p><b>4</b> More safe installation by stopper of washer</p> <p>When unit is installed with hook between washers, this stopper helps to install the unit safely, without adjusting washer.</p>   <p>Separate the provisional washer securing material.</p> <p>Washer on the upper side</p> 



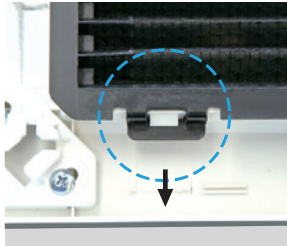


For smooth  
and easy  
working

## Good help for installation and maintenance

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

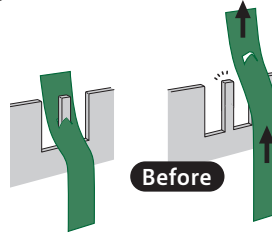
Hook of soft material helps to remove the filter without dust spreading.



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

### 2 Surely fix the corner lid by strap

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



Before

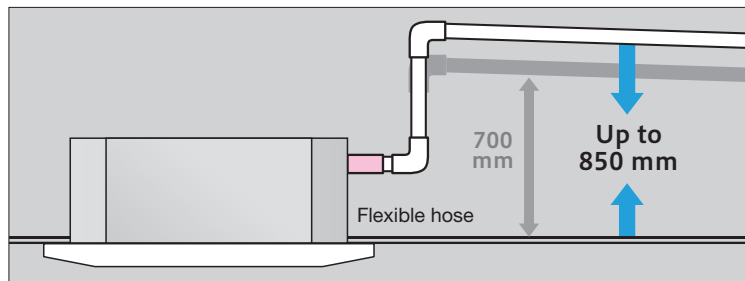


Easy to hook  
but  
not easy to loose

After

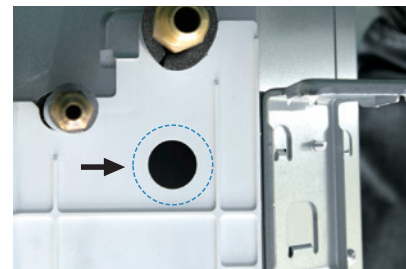
### 3 Drain-up-lift increases up to 850 mm (previous:700mm)

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



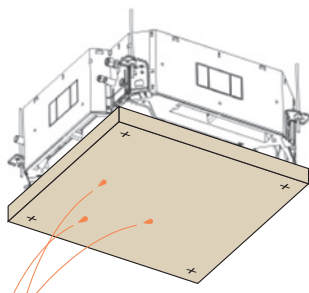
### 4 New port to check drain water flow

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.)



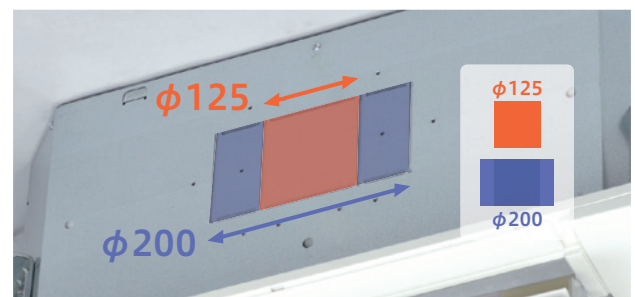
### 5 Re-use of packages during construction work

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 setting **REMOTE CONTROL***

Easy touch and Easy view with full dot Liquid Crystal display



RC-EX1A



RC-EX3

**Bright screen**

***New!***

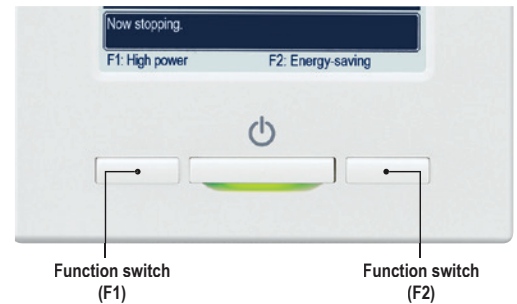


## New functions

### Function Switch

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

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



#### 1 High Power Mode

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



#### 2 Energy Saving Mode

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



#### 3 Quiet Mode

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



#### 4 Home Leave Mode

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



#### 5 Favorite Mode

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

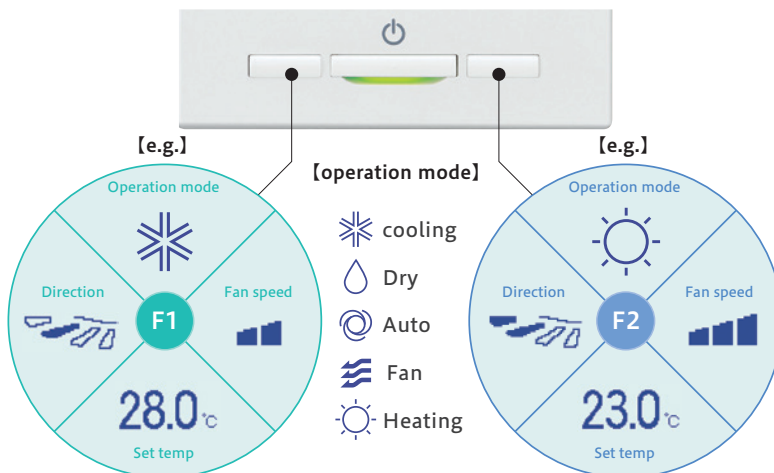


#### 6 Filter Sign

Announces the due time for cleaning the air filter.

### Favorite Mode

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



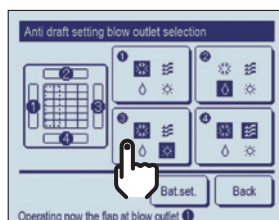
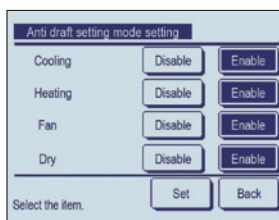
### Adjusting Brightness of the Operation lamp

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



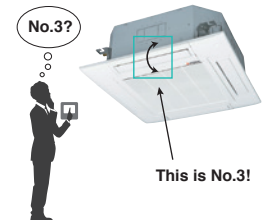
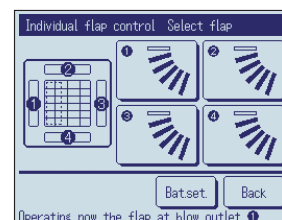
### Draft prevention setting(only FDT series)

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



### Easy modification of Air Flow

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



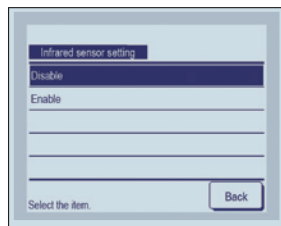
## Motion sensor control

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

- 1 Select Enable / Disable  
Motion sensor control



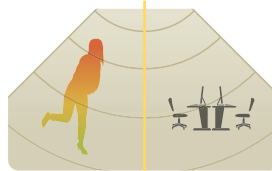
Enable / Disable



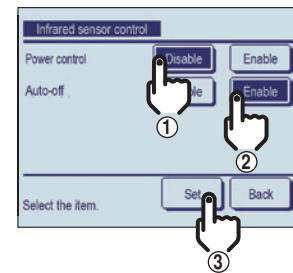
Select [Enable] / [Disable] for the motion sensor of the indoor unit connected to the R/C.

- 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable / Disable



## Backup Control

Control restricted to two indoor units (two groups)

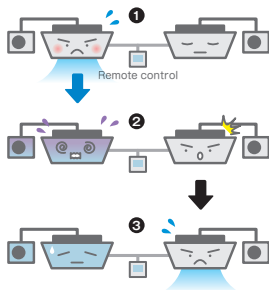


### Fault backup control



#### Keep back up all the time!

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

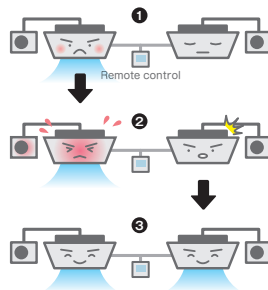


### Capacity backup control



#### Maintains users' comfort!

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

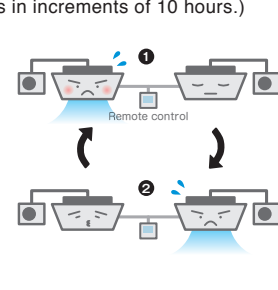


### Rotational operation control



#### Energy saving and longer life!

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



## Additional functions of External Input / Output

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



Remote surveillance system



Card key on-off

### External Input

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

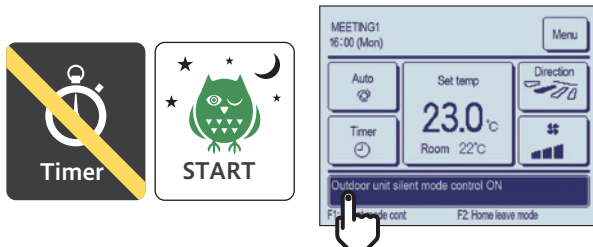
### External Output

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



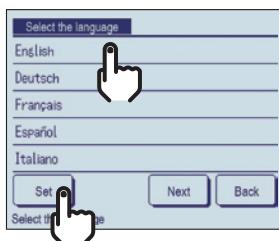
## Silent mode control

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.



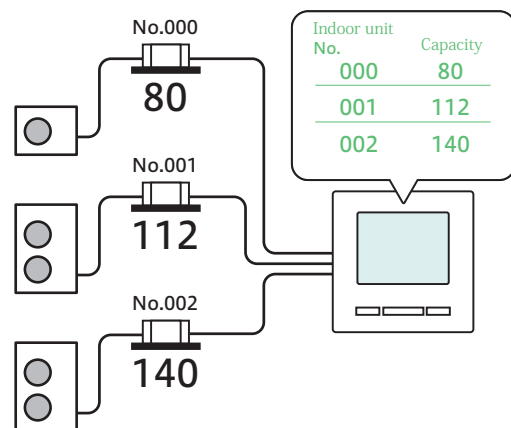
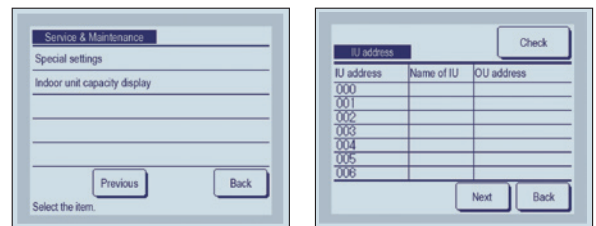
## Language Switching

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



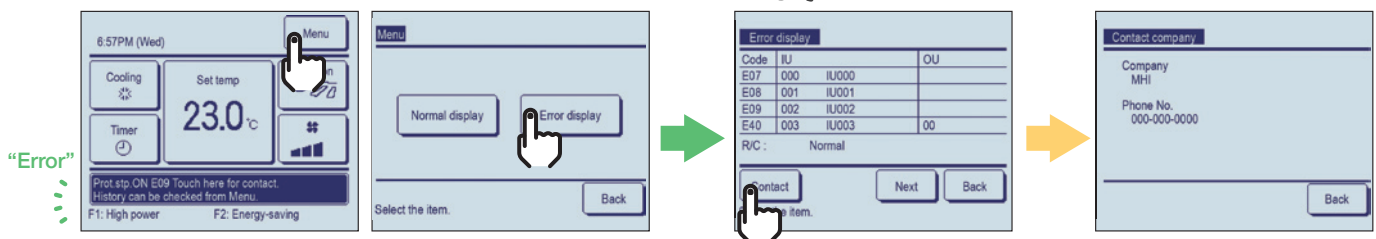
## Indoor unit capacity display

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

### New 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	

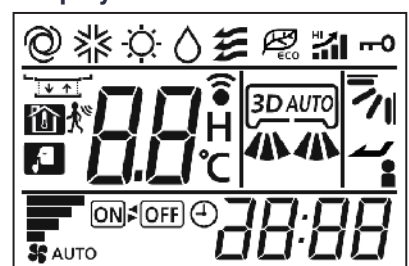
### Function added

- 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 realized high efficiency, strong heating and long piping.

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

Blue Fin

## Line up

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

NEW



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



FDC71VNX (3.0HP)

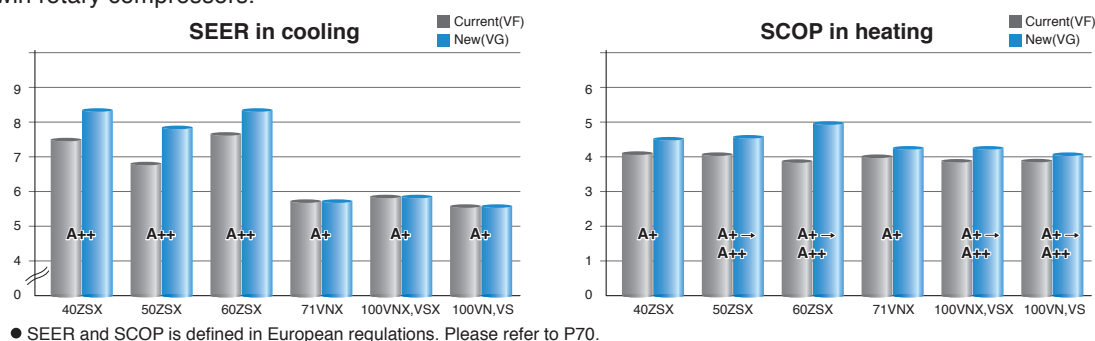


FDC100VNX/VSX (4.0HP)  
FDC125VNX/VSX (5.0HP)  
FDC140VNX/VSX (6.0HP)

Blue Fin

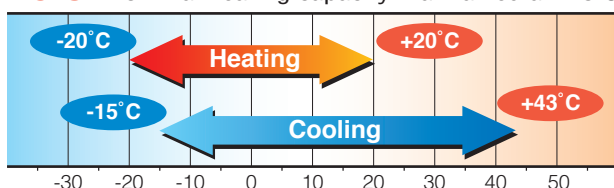
## High efficiency (comparison of FDT series)

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



## Strong heating (Hyper Inverter 3~6HP)

$-20^{\circ}\text{C}$ : Heating operation down to  $-20^{\circ}\text{C}$   
 $-15^{\circ}\text{C}$ : Nominal heating capacity maintained at  $-15^{\circ}\text{C}$

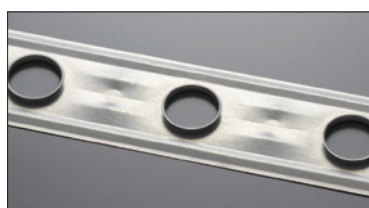
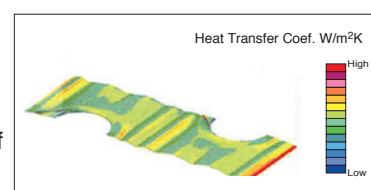


### Max. heating capacity (kW)

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

## Heat exchanger (All outdoor units)

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

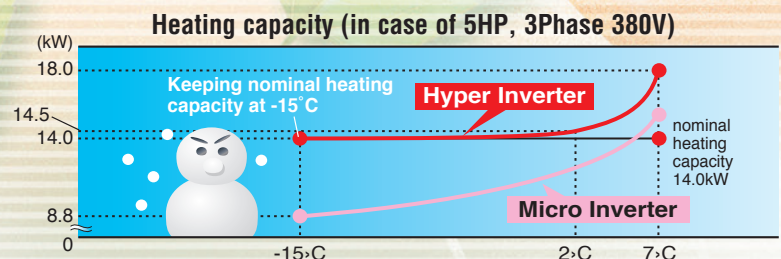




## Leading powerful heating capacity in the industry

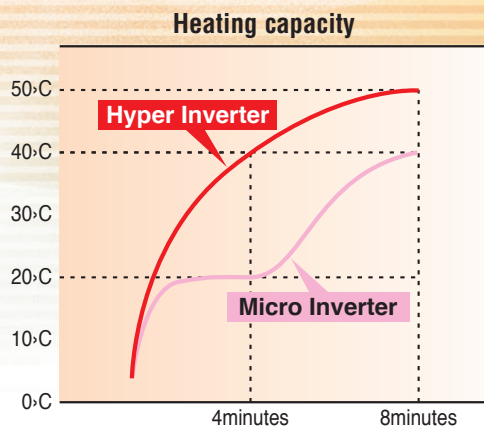
Thanks to optimization of refrigeration control with use of electric expansion valve and development of twin rotary compressors, max heating capacity has been increased.  
Hyper Inverter series can reach the set temperature very quickly, keeping nominal heating capacity when outdoor temperature is -15°C.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

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



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

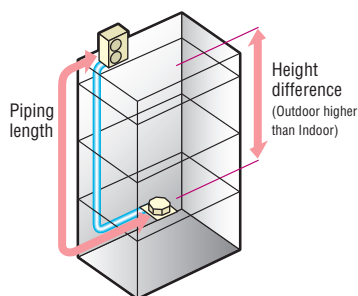
Please refer to our technical manual for installation conditions, operation range and heating/cooling capacities. (including 1Phase 220V)



## Installation workability

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

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



#### Hyper Inverter

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

#### Micro Inverter

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

#### Standard Inverter

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

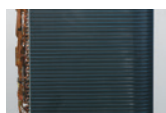
### Point 2 Refrigerant precharged piping length extending to 30m

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

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

### Point 3 Blue Fin (3~10HP)

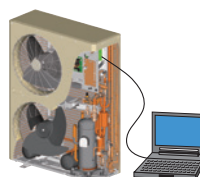
Due to application of blue coated fins (KS101) for the heat exchanger of new outdoor unit, corrosion resistance has been improved compared to current models.



Blue Fin

### Point 4 Monitoring Function (All series)

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



### Point 5 Base heater kit (option)

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

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



# Micro Inverter

## Line up

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



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



**FDC200VSA (8.0HP)**



**FDC250VSA (10.0HP)**

## Tropical Usage Mode

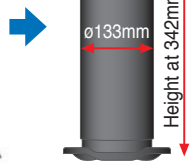
## Size reduction and high efficiency performance on the DC twin rotary compressors (Micro Inverter 4-6HP)

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

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



**Former compressor**



**New model DC twin rotary compressor**

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

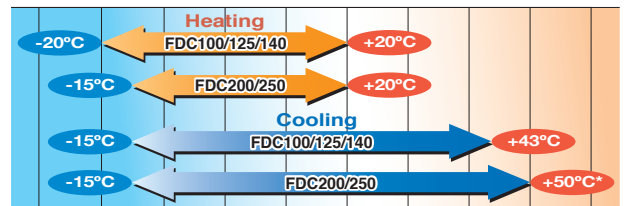
\* Vector control means a technique to realize an optimum control by converting the current wave to a smooth sinusoidal waveform



## Wide range of operation

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

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



\* FDC200/250 : extended to 50°CDB in the cooling mode.

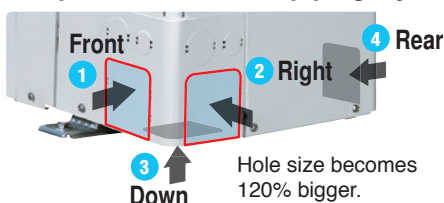
## 2 Layer Construction (Micro Inverter 10HP)

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



## Serviceability (Micro Inverter 10HP)

### ● Improved freedom of piping layout



### ● Four handles

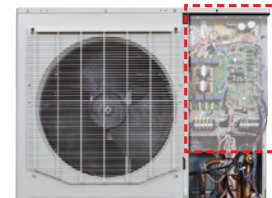


### ● Wire insertion holes for fall prevention



Located at the same level for easy transport and transfer.

### ● A transparent rain cover



Attached as a standard for easy maintenance.

### ● Fixing screws to service panel

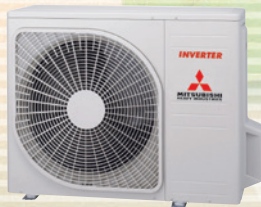
Decreasing number of screws from 5 to 2, installation & service speed is improved.



# Standard Inverter

## Line up

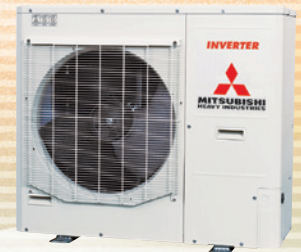
HP	1.5	2	2.5	3	3.5	4	5	6	8	10
Standard Inverter	-	-	-	●	●	●	-	-	-	-



FDC71VNP (3.0HP)



FDC90VNP (3.5HP)

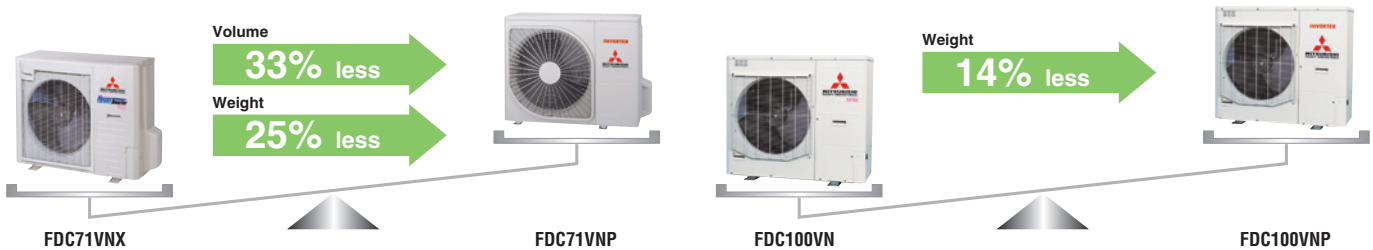


FDC100VNP (4.0HP)

Blue  
Fin

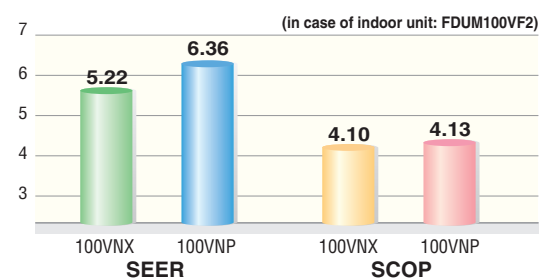
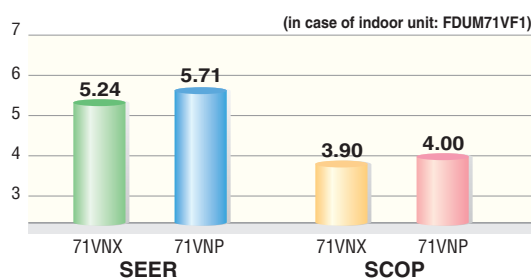
Blue  
Fin

## 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.



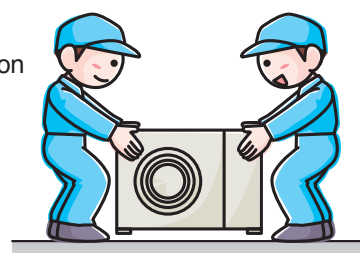
※ Please refer to P70.

## All outdoor units (Hyper, Micro, Standard)

Fits into elevators










Easy  
installation



# PRODUCT LINE UP

## SINGLE SPLITS

Type		Hyper Inverter						
		HP	1.5	2.0	2.5	3.0	4.0	
		kW	4.0	5.0	6.0	7.1	10.0	
		Btu/h	13,600	17,100	20,500	24,200	34,100	
		kcal/h	3,440	4,300	5,160	6,100	8,600	
CEILING CASSETTE	<b>4way</b> <b>FDT</b>  <b>NEW</b> <b>P.24</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
	<b>4way compact (600 x 600mm)</b> <b>FDTC</b>  <b>P.32</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		
			3Phase					
		DUCT CONNECTED	<b>High Static pressure</b> <b>FDU</b>  <b>P.36</b>	Set	1Phase			
3Phase								<b>FDU100VSXVF2</b>
Indoor unit							FDU71VF1	FDU100VF2
Outdoor unit	1Phase						FDC71VNX	FDC100VNX
	3Phase							FDC100VSX
<b>Low/Middle Static pressure</b> <b>FDUM</b>  <b>P.41</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>  <b>P.48</b>	Set	1Phase					
			Indoor unit					
		Outdoor unit	1Phase					
CEILING SUSPENDED	<b>FDE</b>  <b>P.52</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>  <b>P.58</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)

			<i>Micro Inverter</i>					<i>Standard Inverter</i>		
	5.0	6.0	4.0	5.0	6.0	8.0	10.0	3.0	3.5	4.0
	12.5	14.0	10.0	12.5	14.0	20.0	24.0	7.1	9.0	10.0
	42,700	47,800	34,100	42,700	47,800	68,200	81,300	24,200	30,700	34,100
	10,750	12,040	8,600	10,750	12,040	17,200	20,640	6,100	7,740	8,600
	<b>FDT125VNXVG</b>	<b>FDT140VNXVG</b>	<b>FDT100VNVG</b>	<b>FDT125VNVG</b>	<b>FDT140VNVG</b>			<b>FDT71VNPVG</b>	<b>FDT90VNPVG</b>	<b>FDT100VNP1VG</b>
	<b>FDT125VSXVG</b>	<b>FDT140VSXVG</b>	<b>FDT100VSVG</b>	<b>FDT125VSVG</b>	<b>FDT140VSVG</b>					
	FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG			FDT71VG	FDT100VG	FDT100VG
	FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
	FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
	<b>FDU125VNXVF</b>	<b>FDU140VNXVF</b>	<b>FDU100VNVF2</b>	<b>FDU125VNVF</b>	<b>FDU140VNVF</b>			<b>FDU71VNPVF1</b>	<b>FDU90VNPVF2</b>	<b>FDU100VNP1VF2</b>
	<b>FDU125VSXVF</b>	<b>FDU140VSXVF</b>	<b>FDU100VSF2</b>	<b>FDU125VSF</b>	<b>FDU140VSF</b>	<b>FDU200VSAVG<sup>※</sup></b>	<b>FDU250VSAVG<sup>※</sup></b>			
	FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF	FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
	FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
	FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS	FDC200VSA	FDC250VSA			
	<b>FDUM125VNXVF</b>	<b>FDUM140VNXVF</b>	<b>FDUM100VNVF2</b>	<b>FDUM125VNVF</b>	<b>FDUM140VNVF</b>			<b>FDUM71VNPVF1</b>	<b>FDUM90VNPVF2</b>	<b>FDUM100VNP1VF2</b>
	<b>FDUM125VSXVF</b>	<b>FDUM140VSXVF</b>	<b>FDUM100VSF2</b>	<b>FDUM125VSF</b>	<b>FDUM140VSF</b>					
	FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF			FDUM71VF1	FDUM100VF2	FDUM100VF2
	FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
	FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
										<b>SRK100VNP1ZR</b>
										SRK100ZR-S
										FDC100VNP
	<b>FDE125VNXVG</b>	<b>FDE140VNXVG</b>	<b>FDE100VNVG</b>	<b>FDE125VNVG</b>	<b>FDE140VNVG</b>			<b>FDE71VNPVG</b>	<b>FDE90VNPVG</b>	<b>FDE100VNP1VG</b>
	<b>FDE125VSXVG</b>	<b>FDE140VSXVG</b>	<b>FDE100VSVG</b>	<b>FDE125VSVG</b>	<b>FDE140VSVG</b>					
	FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG			FDE71VG	FDE100VG	FDE100VG
	FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
	FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
	<b>FDF125VNXVD</b>	<b>FDF140VNXVD</b>	<b>FDF100VNV2</b>	<b>FDF125VNV2</b>	<b>FDF140VNV2</b>			<b>FDF71VNPVD1</b>	<b>FDF90VNPVD2</b>	<b>FDF100VNP1VD2</b>
	<b>FDF125VSXVD</b>	<b>FDF140VSXVD</b>	<b>FDF100VSVD2</b>	<b>FDF125VSVD</b>	<b>FDF140VSVD</b>					
	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD			FDF71VD1	FDF100VD2	FDF100VD2
	FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
	FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					

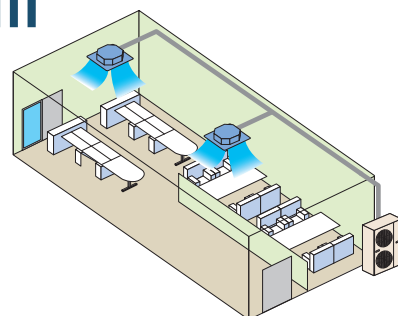
※ Tropical Usage Mode

## MULTI SYSTEM













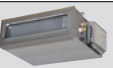











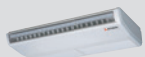










# Twin / Triple / Double Twin Multi System

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






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



### Applicable indoor units

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

### Combination of indoor units

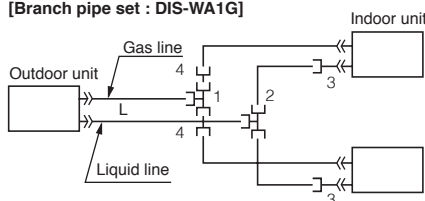
Outdoor Unit	Hyper Inverter				Micro Inverter				
									
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VN FDC100VS	FDC125VN FDC125VS	FDC140VN FDC140VS	FDC200VSA	FDC250VSA
<b>Twin</b>	40 + 40	50 + 50	60 + 60	71 + 71	50 + 50	60 + 60	71 + 71	100 + 100	125 + 125
<b>Triple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

## Decision of piping specification

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

### Twin type

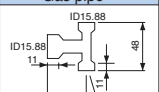
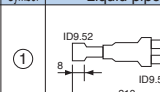
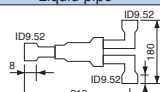
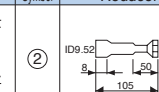
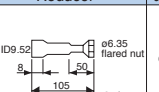
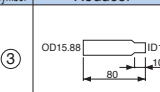
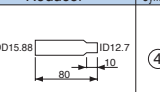
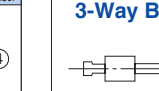
Models FDC71VNX, FDC100~140VN/VS  
[Branch pipe set : DIS-WA1G]



(Example)

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

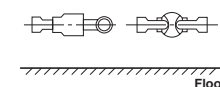
Notes (1) When 40-60 models of indoor units are applied to this combination, the reducer 3 supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size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

Chart of shapes of branch piping parts (DIS-WA1G)	Gas pipe		Symbol	Liquid pipe		Symbol	Reducer		Symbol	Reducer		Symbol
												

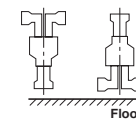
Notes (1) Symbol 1 to 4 in the drawing shows the symbols of branch piping parts in the chart respectively.  
(2) Branch piping should always be arranged to have level or perpendicular position.

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

### 2-Way Branch

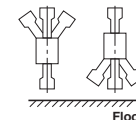
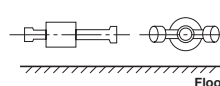


Mount sections level with the floor.



Mount sections perpendicular to the floor.

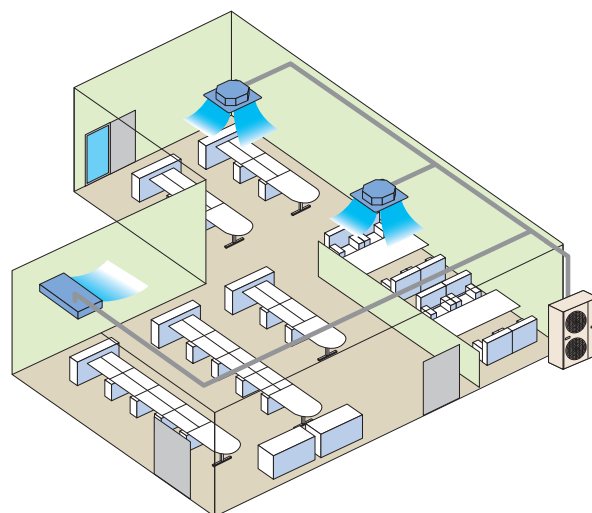
### 3-Way Branch








# V Multi System






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



## ■ Applicable indoor units

Model		Capacity					
		40	50	60	71	100	125
<b>4way FDT</b>	 	●	●	●	●	●	●
<b>Ceiling Suspended FDE</b>		●	●	●	●	●	●

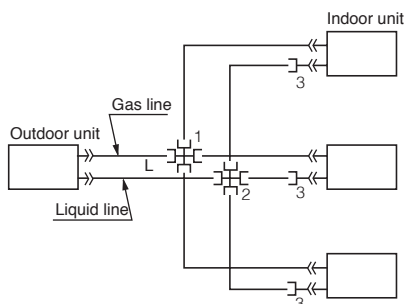
## ■ Combination of indoor units

Outdoor Unit	Hyper Inverter				Micro Inverter				
									
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VN FDC100VS	FDC125VN FDC125VS	FDC140VN FDC140VS	FDC200VSA	FDC250VSA
<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

## Triple type

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

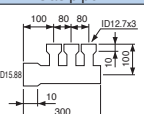
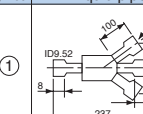
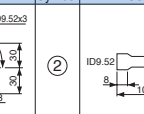
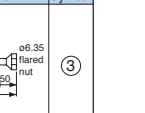
Model FDC140VN/VS  
[Branch pipe set : DIS-TA1G]



(Example)

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


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



Chart of shapes of branch piping parts (DIS-TA1G)	Gas pipe		Symbol	Liquid pipe		Symbol	Reducer	Symbol
								
	①			②				③

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








# 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.

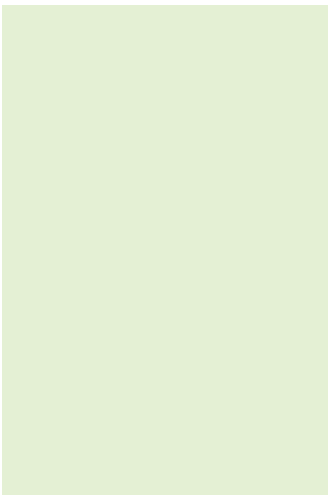
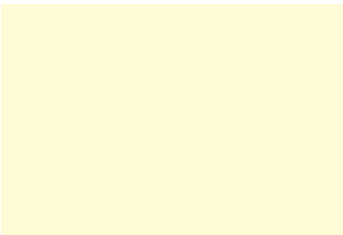
Economy	<b>Inverter technology</b>	Inverter control technology functions at high efficiency with smooth operation from high speed to low speed. A smooth sine voltage wave is attained.
	<b>Energy-saving ※</b>	Since the capacity is controlled automatically based on the outdoor temperature, energy can be 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



# CEILING CASSETTE -4way- FDT



**NEW**



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



**Draft Prevention Panel (Option)**

**Remote control (Option)**

**NEW**

**Wired**

**NEW**

**Wireless**



RC-EX3



RC-E5



RCH-E3



RCN-T-5AW-E2

**Point 3**

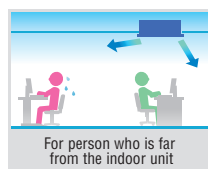
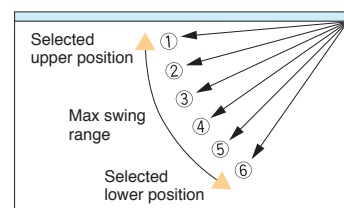
## Individual flap control system

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

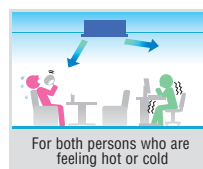


Flap can swing within an upper and lower flap range position within can be selected with a wired remote control.

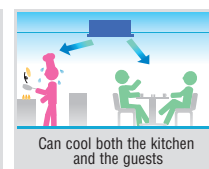
※The wireless remote control is not applicable to the Individual flap control system.



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

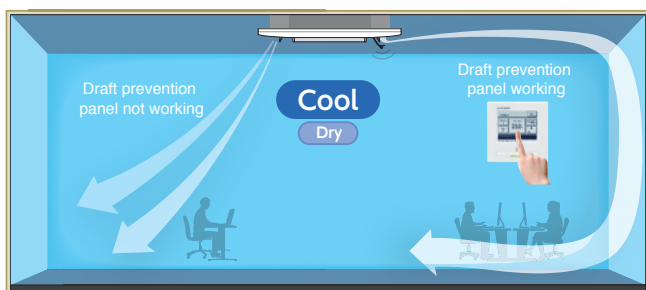
**Point 1**

## Draft Prevention Panel (Option)

(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.



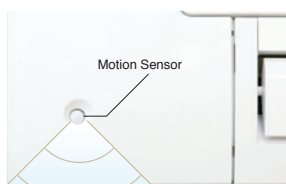
User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3, RCN-T-5AW-E2).

**Point 2**

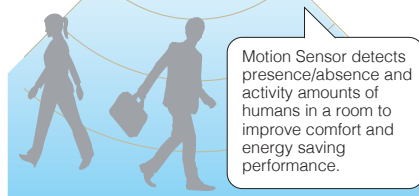
## Motion Sensor (Option)

(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



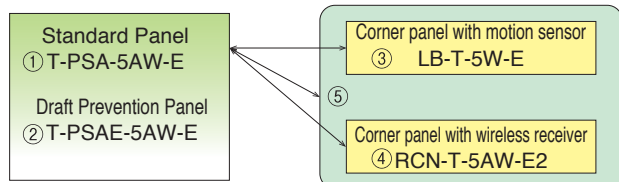
Motion Sensor detects presence/absence and activity amounts of humans in a room to improve comfort and energy saving performance.

# Point 4

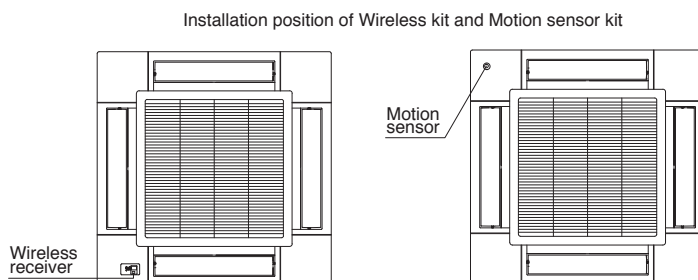
## Panel select pattern

(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

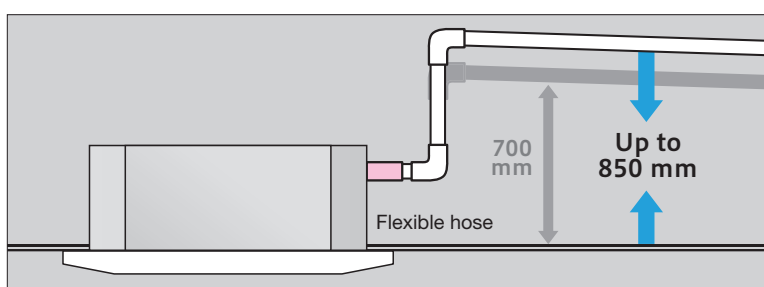


\*Wireless receiver and Motion sensor can be installed to the position as shown

# 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.



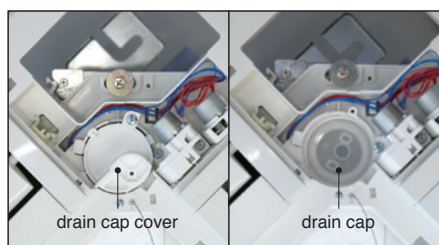
# Point 6

## Easy check of drain pan

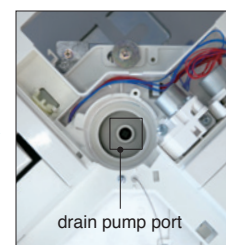
Easy check of drain pan condition is available by removing corner lid only.



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

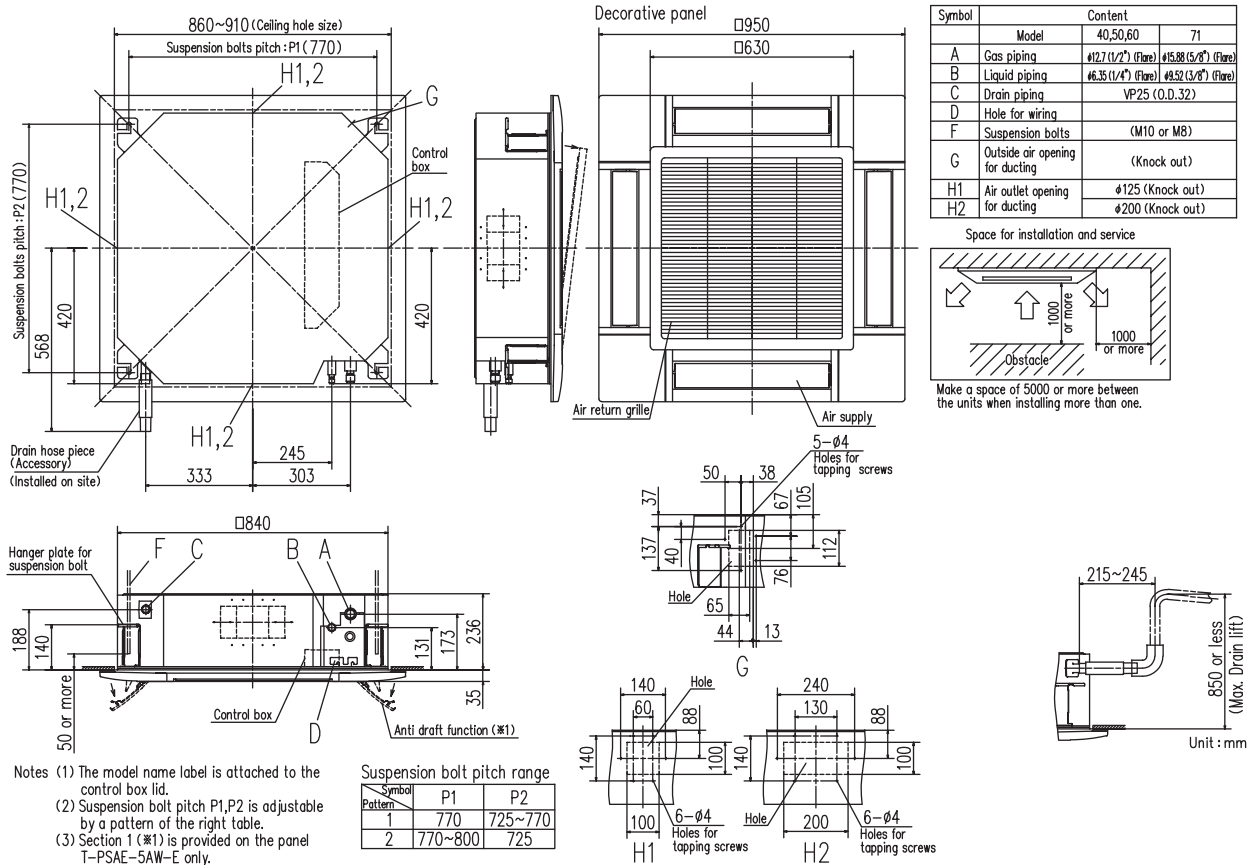
SRC • FDC	Hyper Inverter			Micro Inverter		
	40~60ZSX	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model						
Chargeless	15m	30m		30m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

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

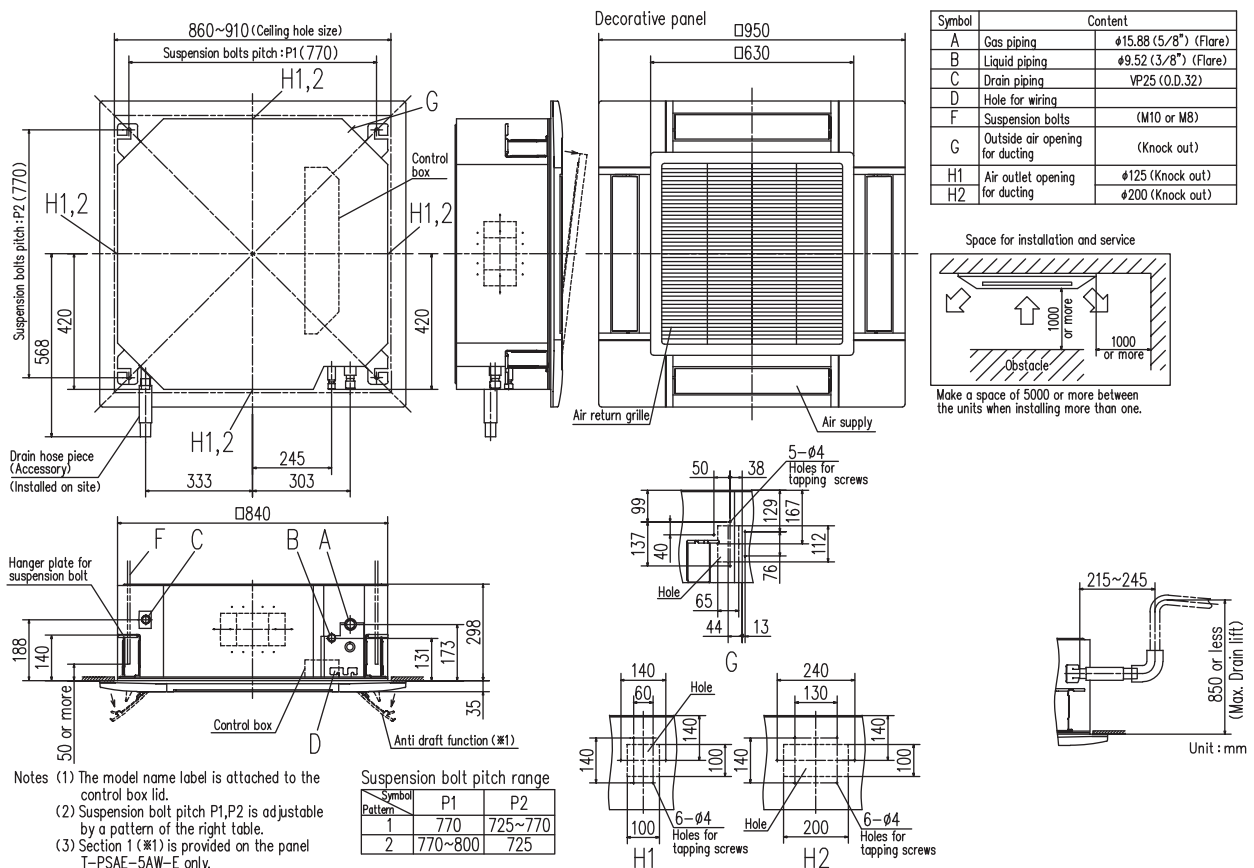


## DIMENSIONS (Unit:mm)

### 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)	m³/min	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	
		Cooling (Hi/Me/Lo)		16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	16 / 13 / 10	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12		
		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	m	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	5	
Max. current				24	26	26	15	15	15	
Sound power level *1	Indoor	Cooling/Heating	dB(A)	63 / 63	64 / 64	64 / 64	63 / 63	64 / 64	64 / 64	
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72	
Sound pressure level *1 ※1	Indoor	Cooling (Hi/Me/Lo)		39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	
		Heating (Hi/Me/Lo)		39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	39 / 37 / 31	41 / 39 / 32	42 / 39 / 33	
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)		m³/min	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
		Heating (Hi/Me/Lo)			26 / 23 / 17	28 / 25 / 18	29 / 26 / 19	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19
	Heating (Hi/Me/Lo)	26 / 23 / 17	28 / 25 / 18		29 / 26 / 19	26 / 23 / 17	28 / 25 / 18	29 / 26 / 19		
	Outdoor	Cooling/Heating	100 / 100		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm		Unit: 298 x 840 x 840 Panel: 35 x 950 x 950					
	Outdoor				1,300 x 970 x 370					
Net weight	Indoor		kg	30(Unit:25 Standard Panel:5)						
	Outdoor			105						
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.100						
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15						
Outdoor operating temperature range	Cooling		°C	-15~43*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	FDT50VG	FDT60VG	FDT71VG	FDT50VG	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)			kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )	
Power consumption	Cooling/Heating	kW	1.85 / 1.99	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00	
EER/COP	Cooling/Heating		3.84 / 4.02	3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00	
Inrush current		A	5	5	5	5	5	
Max. current			17	24	26	26	26	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	53 / 53	54 / 54	60 / 60	62 / 62	54 / 54
	Outdoor			Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)	dB(A)	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
	Heating (Hi/Me/Lo)	16 / 13 / 10		16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10	
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950				
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)		24(Unit:19 Standard 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		FDT60VG		FDT71VG		FDT50VG				
Outdoor unit			FDC100VSX		FDC125VSX		FDC140VSX		FDC140VSX				
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz										
Nominal cooling capacity (Min~Max)			kW	10.0 ( 4.0 ~ 11.2 )		12.5 ( 5.0 ~ 14.0 )		14.0 ( 5.0 ~ 16.0 )		14.0 ( 5.0 ~ 16.0 )			
Nominal heating capacity (Min~Max)			kW	11.2 ( 4.0 ~ 16.0 )		14.0 ( 4.0 ~ 18.0 )		16.0 ( 4.0 ~ 20.0 )		16.0 ( 4.0 ~ 20.0 )			
Power consumption			Cooling/Heating	kW	2.56 / 2.67		3.26 / 3.22		3.88 / 3.74		3.93 / 4.00		
EER/COP			Cooling/Heating		3.91 / 4.19		3.83 / 4.35		3.61 / 4.28		3.56 / 4.00		
Inrush current			A		5		5		5		5		
Max. current					15		15		15		15		
Sound power level*1			Indoor*2	Cooling/Heating	dB(A)	54 / 54		60 / 60		62 / 62		54 / 54	
			Outdoor	Cooling/Heating		70 / 70		70 / 70		72 / 72		72 / 72	
Sound pressure level*1 ※1			Indoor*2	Cooling (Hi/Me/Lo)		33 / 30 / 27		34 / 32 / 28		35 / 34 / 29		33 / 30 / 27	
				Heating (Hi/Me/Lo)		33 / 30 / 27		34 / 32 / 28		35 / 34 / 29		33 / 30 / 27	
			Outdoor	Cooling/Heating		48 / 50		48 / 50		49 / 52		49 / 52	
				Cooling (Hi/Me/Lo)		16 / 13 / 10		17 / 14 / 11		18 / 15 / 12		16 / 13 / 10	
Air flow ※1			Indoor*2	Heating (Hi/Me/Lo)	m³/min	16 / 13 / 10		17 / 14 / 11		18 / 15 / 12		16 / 13 / 10	
			Outdoor	Cooling/Heating		100 / 100		100 / 100		100 / 100		100 / 100	
Exterior dimensions			Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950							
			Outdoor			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			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								
Panel			T-PSA-5AW-E, T-PSAE-5AW-E										
Air filter, Q'ty			Pocket plastic net x 1(Washable)										
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2										

※1 Powerful-Hi can be selected.

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

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

NOTES:

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

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

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

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

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



## SPECIFICATIONS

			Micro Inverter					
Set model name			FDT100VNVG	FDT125VNVG	FDT140VNVG	FDT100VSVG	FDT125VSVG	FDT140VSVG
Indoor unit			FDT100VG	FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG
Outdoor unit			FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			kW 11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating	kW 2.76 / 2.74	4.05 / 3.77	4.98 / 4.57	2.76 / 2.74	4.05 / 3.77	4.98 / 4.57
EER/COP		Cooling/Heating	3.62 / 4.09	3.09 / 3.71	2.81 / 3.50	3.62 / 4.09	3.09 / 3.71	2.81 / 3.50
Inrush current		A	5	5	5	5	5	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	72 / 72	73 / 73	70 / 70	72 / 72
Sound pressure level*1 ※2	Indoor	Cooling (Hi/Me/Lo)	m³/min	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		49 / 49	50 / 51	51 / 51	49 / 49	50 / 51
	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	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950				
	Outdoor			845 x 970 x 370				
Net weight	Indoor		kg	30(Unit:25 Standard Panel:5)				
	Outdoor			81		83		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50				
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*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			FDT100VNPVG	FDT125VNPVG	FDT140VNPVG	FDT140VNTVG
			Twin			Triple
Indoor unit			FDT50VG	FDT60VG	FDT71VG	FDT50VG
Outdoor unit			FDC100VN	FDC125VN	FDC140VN	FDC140VN
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	14.0 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	16.0 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating kW	2.82 / 3.09	3.95 / 3.70	4.51 / 4.58	4.65 / 4.63
EER/COP		Cooling/Heating	3.55 / 3.62	3.16 / 3.78	3.10 / 3.49	3.01 / 3.46
Inrush current		A	5	5	5	5
Max. current			24	24	24	24
Sound power level*1	Indoor*2	Cooling/Heating	54 / 54	60 / 60	62 / 62	54 / 54
	Outdoor	Cooling/Heating	70 / 70	72 / 72	73 / 73	73 / 73
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27
		Heating (Hi/Me/Lo)	33 / 30 / 27	34 / 32 / 28	35 / 34 / 29	33 / 30 / 27
	Outdoor	Cooling/Heating	49 / 49	50 / 51	51 / 51	51 / 51
		Cooling (Hi/Me/Lo)	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10
Air flow ※2	Indoor*2	Heating (Hi/Me/Lo)	16 / 13 / 10	17 / 14 / 11	18 / 15 / 12	16 / 13 / 10
		Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)
	Outdoor			81		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.50		
Vertical height differences			Outdoor is higher/lower	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			

※2 Powerful-Hi can be selected.

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name								
			FDT100VSPVG		FDT125VSPVG		FDT140VSPVG	
			Twin					
Indoor unit			FDT50VG		FDT60VG		FDT71VG	
Outdoor unit			FDC100VS		FDC125VS		FDC140VS	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 10.0 ( 4.0 ~ 11.2 )		12.5 ( 5.0 ~ 14.0 )		14.0 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)			kW 11.2 ( 4.0 ~ 12.5 )		14.0 ( 4.0 ~ 16.0 )		16.0 ( 4.0 ~ 16.5 )	
Power consumption		Cooling/Heating	kW 2.82 / 3.09		3.95 / 3.70		4.51 / 4.58	
EER/COP		Cooling/Heating	3.55 / 3.62		3.16 / 3.78		3.10 / 3.49	
Inrush current			A 5		5		5	
Max. current			15		15		15	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A) 54 / 54		60 / 60		62 / 62	
	Outdoor	Cooling/Heating	70 / 70		72 / 72		73 / 73	
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)	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	49 / 49		50 / 51		51 / 51	
	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	
	Outdoor	Cooling/Heating	75 / 73		75 / 73		75 / 73	
Exterior dimensions		Indoor	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950					
		Outdoor	HeightxWidthxDepth 845 x 970 x 370					
Net weight	Indoor		kg 24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)			
	Outdoor		83					
Ref.piping size	Liquid/Gas		ømm 9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m Max.50					
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15					
Outdoor operating temperature range		Cooling	°C -15~43*3					
		Heating	-20~20					
Panel			T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty			Pocket plastic net x 1(Washable)					
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

The values are for simultaneous Multi operation.

			Micro Inverter							
Set model name			FDT200VSAPVG		FDT250VSAPVG		FDT140VSTVG			
			Twin				Triple			
Indoor unit			FDT100VG		FDT125VG		FDT50VG			
Outdoor unit			FDC200VSA		FDC250VSA		FDC140VS			
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz							
Nominal cooling capacity (Min~Max)			kW	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )		14.0 ( 5.0 ~ 14.5 )			
Nominal heating capacity (Min~Max)			kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )		16.0 ( 4.0 ~ 16.5 )			
Power consumption			kW	6.25 / 6.02	8.36 / 7.15		4.65 / 4.63			
EER/COP		Cooling/Heating		3.04 / 3.72	2.87 / 3.78		3.01 / 3.46			
Inrush current			A	5	5		5			
Max. current				20	21		15			
Sound power level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling/Heating	dB(A)	63 / 63	64 / 64		54 / 54			
	Outdoor	Cooling/Heating		72 / 74	73 / 75		73 / 73			
Sound pressure level* <sup>1</sup> ※1	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo)		39 / 37 / 31	41 / 39 / 32		33 / 30 / 27			
		Heating (Hi/Me/Lo)		39 / 37 / 31	41 / 39 / 32		33 / 30 / 27			
	Outdoor	Cooling/Heating		58 / 59	59 / 62		51 / 51			
Air flow ※1	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo)		m³/min	26 / 23 / 17	28 / 25 / 18		16 / 13 / 10		
		Heating (Hi/Me/Lo)	26 / 23 / 17		28 / 25 / 18		16 / 13 / 10			
	Outdoor	Cooling/Heating	135 / 135		143 / 151		75 / 73			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950				Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor			1,300 x 970 x 370				845 x 970 x 370		
Net weight	Indoor		kg	30(Unit:25 Standard Panel:5)				24(Unit:19 Standard Panel:5)		
	Outdoor			115				83		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")		9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.70				Max.50		
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range			Cooling	°C	-15~50* <sup>3</sup>				-15~43* <sup>3</sup>	
			Heating		-15~20				-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: 100VSPVG 38dB(A), 125VSPVG 44dB(A), 140VSPVG 46dB(A), 140VNTVG 38dB(A), 200VSAPVG 48dB(A), 250VSAPVG 49dB(A), 140VSTVG 38dB(A)

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

					FDT200VSATVG		FDT200VSADVG		FDT250VSADVG	
Set model name					Triple		Double Twin			
Indoor unit					FDT71VG		FDT50VG		FDT60VG	
Outdoor unit					FDC200VSA		FDC200VSA		FDC250VSA	
Power source					3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)			kW		19.0 ( 5.2 ~ 22.4 )		19.0 ( 5.2 ~ 22.4 )		24.0 ( 6.9 ~ 28.0 )	
Nominal heating capacity (Min~Max)			kW		22.4 ( 3.3 ~ 25.0 )		22.4 ( 3.3 ~ 25.0 )		27.0 ( 5.5 ~ 31.5 )	
Power consumption		Cooling/Heating	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		73 / 75	
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	
	Outdoor	Cooling/Heating			58 / 59		58 / 59		59 / 62	
Air flow ※2	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	Indoor	HeightxWidthxDepth	mm		Unit: 236 x 840 x 840 Panel: 35 x 950 x 950					
	Outdoor				1,300 x 970 x 370				1,505 x 970 x 370	
Net weight	Indoor		kg		26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)	
	Outdoor				115				143	
Ref.piping size	Liquid/Gas		ømm		9.52(3/8") / 22.22(7/8")				12.7(1/2") / 22.22(7/8")	
Refrigerant line (one way) length			m		Max.70					
Vertical height differences			Outdoor is higher/lower		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	dB(A)	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)	dB(A)	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)	m³/min	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		Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor			640 x 800(+71) x 290		750 x 880(+88) x 340		845 x 970 x 370
	Indoor			26(Unit:21 Standard Panel:5)		30(Unit:25 Standard Panel:5)		
Net weight	Indoor		kg	45		57		70
	Outdoor							
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")		6.35(1/4") / 15.88(5/8")		9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.30				
Vertical height differences			Outdoor is higher/lower	m	Max.20 / Max.20			
Outdoor operating temperature range	Cooling		°C	-15~46*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.

\*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)

NEW

Wired

NEW

Wireless



RC-EX3



RC-E5



RCH-E3



RCN-TC-24W-E2



Point  
1

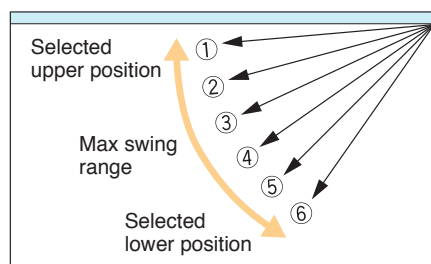
## Individual flap control system

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.



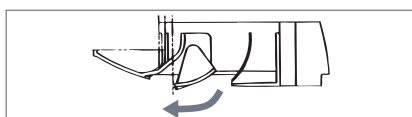
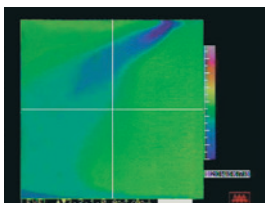
\*The wireless remote control is not applicable to the Individual flap control system.

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

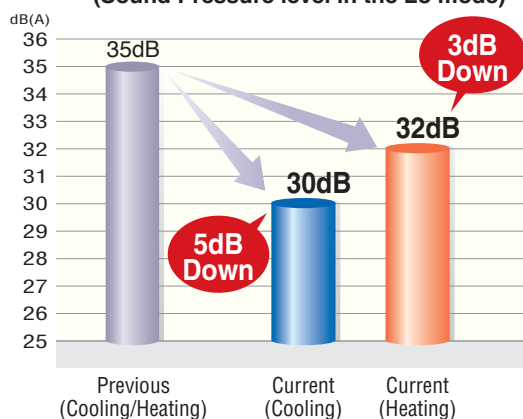


wireless  
remote control  
RCN-TC-24W-E2

Point  
4

## Quiet operation

(Sound Pressure level in the Lo mode)



Point  
5

## Taking OA (Outside Air) into inside

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

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

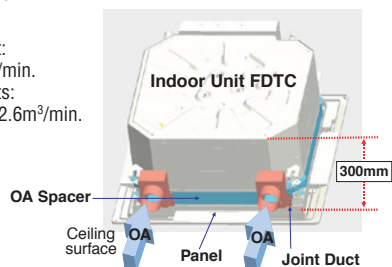
Utilizing OA spacer which comes as optional equipment, outside air can be taken inside.

Using 1 joint duct:

OA up to 1.3m<sup>3</sup>/min.

Using 2 joint ducts:

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

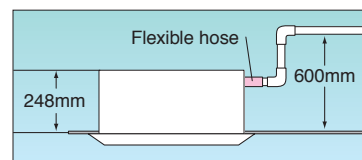


Point  
6

## 600mm Drain Pump

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

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



Point  
7

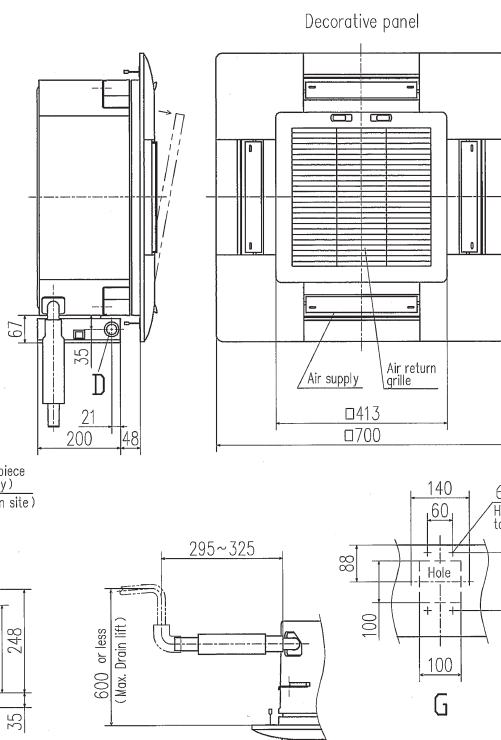
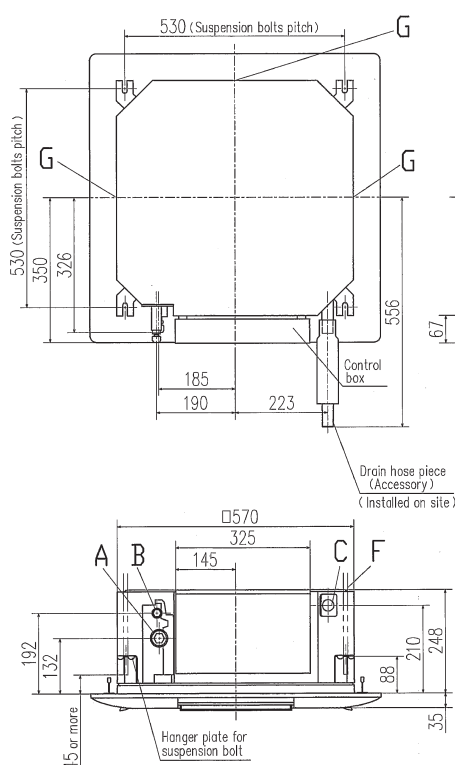
## Arrangement of installation balance of indoor unit

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

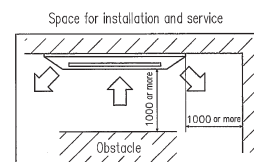
### OUTDOOR UNIT

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

### DIMENSIONS (Unit:mm)



Symbol	Content
A	Gas piping #12.7 (1/2") (Flare)
B	Liquid piping #6.35 (1/4") (Flare)
C	Drain piping Connectable with VP20 (Standard) or VP25 (used with attached socket)
D	Hole for wiring #25
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) 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		FDTC40ZSXVF	FDTC50ZSXVF	FDTC60ZSXVF
Indoor unit		FDTC40VF	FDTC50VF	FDTC60VF
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)		kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 6.7 )
Power consumption	Cooling/Heating	kW 1.04 / 1.10	1.56 / 1.45	1.99 / 2.07
EER/COP	Cooling/Heating	3.85 / 4.09	3.21 / 3.72	2.81 / 3.24
Inrush current	A	5	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		Outdoor is higher/lower	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°C	-15~-46*3	
	Heating		-20~24	
Panel			TC-PSA-25W-E	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2	

The values are for simultaneous Multi operation.

		Hyper Inverter								
Set model name			FDTC71VNXPVF	FDTC100VNXPVF	FDTC125VNXPVF	FDTC140VNXTVF	FDTC100VSPXVF	FDTC125VSPXVF	FDTC140VSTXVF	
			Twin			Triple	Twin		Triple	
Indoor unit			FDTC40VF	FDTC50VF	FDTC60VF	FDTC50VF	FDTC50VF	FDTC60VF	FDTC50VF	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	
Power consumption		Cooling/Heating	kW	2.04 / 2.21	3.18 / 3.20	4.10 / 4.10	4.34 / 4.34	3.18 / 3.20	4.10 / 4.10	
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	Cooling/Heating	dB(A)		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	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)			42 / 36 / 30	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30	42 / 36 / 30	
					42 / 36 / 32	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32
	Outdoor	Cooling/Heating			51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	
					11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)		m³/min <td></td> <td>11.5 / 9 / 8</td> <td>11.5 / 9 / 8</td> <td>13.5 / 10 / 8</td> <td>11.5 / 9 / 8</td> <td>11.5 / 9 / 8</td>		11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8	11.5 / 9 / 8
					Outdoor		Cooling/Heating	60 / 50	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		kg	18.5(Unit:15 Panel:3.5)						
	Outdoor			60	105					
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")							
Refrigerant line (one way) length		m	Max.50	Max.100						
Vertical height differences		Outdoor is higher/lower	Max.30 / Max.15							
Outdoor operating temperature range	Cooling	°C	-15~43*3							
	Heating		-20~20							
Panel		TC-PSA-25W-E								
Air filter, Q'ty		Pocket plastic net x 1(Washable)								
Remote control (option)		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2								

※1 Powerful-Hi can be selected.

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

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

### NOTES:

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

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

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

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

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



## SPECIFICATIONS

The values are for simultaneous Multi operation.

			<b>Micro Inverter</b>		
Set model name			FDTCT100VNPVF	FDTCT125VNPVF	FDTCT140VNTVF
			Twin		Triple
Indoor unit			FDTCT50VF	FDTCT60VF	FDTCT50VF
Outdoor unit			FDC100VN	FDC125VN	FDC140VN
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW		10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW		11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	3.25 / 3.26	5.35 / 4.62	4.64 / 4.52
EER/COP	Cooling/Heating		3.08 / 3.44	2.34 / 3.03	3.02 / 3.54
Inrush current		A	5	5	5
Max. current			24	24	24
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor		70 / 70	72 / 72	73 / 73
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30
	Indoor*2	Heating (Hi/Me/Lo)	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32
Air flow ※2	Indoor*2	Cooling/Heating	49 / 49	50 / 51	51 / 51
	Indoor*2	Cooling (Hi/Me/Lo)	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7
	Indoor*2	Heating (Hi/Me/Lo)	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		18.5(Unit:15 Panel:3.5)		
	Outdoor		81		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*3		
	Heating		-20~20		
Panel			TC-PSA-25W-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2		

The values are for simultaneous Multi operation.

			Micro Inverter					
Set model name			FDTCT100VSPVF	FDTCT125VSPVF	FDTCT140VSTVF	FDTCT200VSADVF	FDTCT250VSADVF	
			Twin		Triple	Double Twin		
Indoor unit			FDTCT50VF	FDTCT60VF	FDTCT50VF	FDTCT50VF	FDTCT60VF	
Outdoor unit			FDC100VS	FDC125VS	FDC140VS	FDC200VSA	FDC250VSA	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	
Power consumption		Cooling/Heating kW	3.25 / 3.26	5.35 / 4.62	4.64 / 4.52	6.95 / 6.98	11.10 / 9.66	
EER/COP		Cooling/Heating	3.08 / 3.44	2.34 / 3.03	3.02 / 3.54	2.73 / 3.21	2.16 / 2.80	
Inrush current		A	5	5	5	5	5	
Max. current			15	15	15	20	21	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	
	Outdoor			Cooling/Heating	70 / 70	72 / 72	73 / 73	72 / 74
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)		42 / 36 / 30 42 / 36 / 32	46 / 39 / 30 46 / 39 / 32	42 / 36 / 30 42 / 36 / 32	42 / 36 / 30 42 / 36 / 32	46 / 39 / 30 46 / 39 / 32
	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	58 / 59	61 / 62
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	m³/min	11.5 / 9 / 7 11.5 / 9 / 8	13.5 / 10 / 7 13.5 / 10 / 8	11.5 / 9 / 7 11.5 / 9 / 8	11.5 / 9 / 7 11.5 / 9 / 8	13.5 / 10 / 7 13.5 / 10 / 8
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	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	
Net weight	Indoor		kg	18.5(Unit:15 Panel:3.5)				
	Outdoor			83		115	143	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.50			Max.70	
Vertical height differences			Outdoor is higher/lower m	Max.30 / Max.15				
Outdoor operating temperature range		Cooling Heating	°C	-15~43*3 -20~20			-15~50*3 -15~20	
Panel				TC-PSA-25W-E				
Air filter, Q'ty				Pocket plastic net x 1(Washable)				
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2				

※2 Powerful-Hi can be selected.

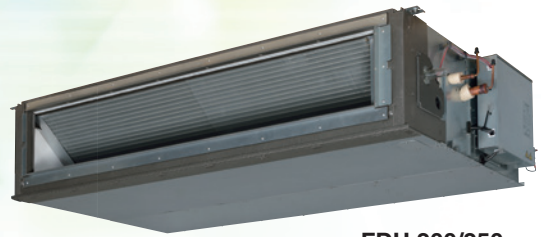
Sound pressure level: 100/125VN(S)PVF 47dB(A), 140VN(S)TVF 47dB(A), 200/250VSADVF 47dB(A)

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

# DUCT CONNECTED -High Static pressure- FDU



FDU 71/100/125/140



FDU 200/250  
Tropical Usage Mode

## Remote control (Option)

NEW

Wired

NEW

Wireless



RC-EX3



RC-E5



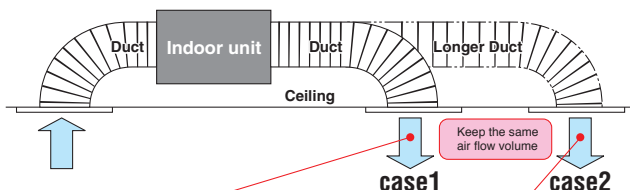
RCH-E3



RCN-KIT4-E2

Point  
1

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



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

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

### <Expansion of external static pressure range>

Previous 10~130Pa → Current 10~200Pa

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

### E.S.P. button

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



RC-E5

Point  
2

## More quiet noise

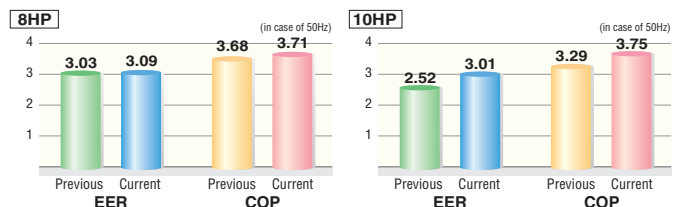
Thanks to use of DC fan motor, fan steps increase from two to four and quiet operation is achieved.(FDU200/250)

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

Point  
3

## High efficiency

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



Point  
4

## Transparent inspection window

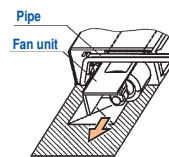
Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.



Point  
5

## Improvement of the serviceability

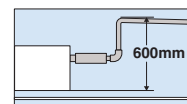
Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be available from the right side or the bottom side.



Point  
6

## Enhanced installation workability

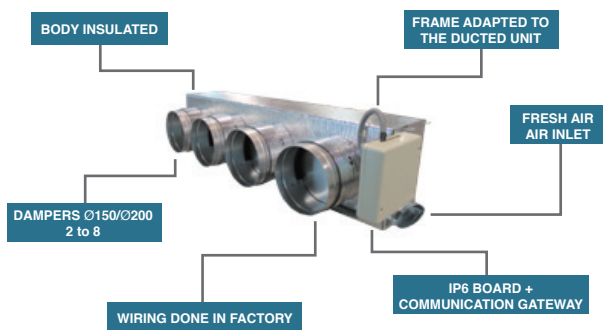
600mm Drain Pump is mounted in FDU71/100/125/140. The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



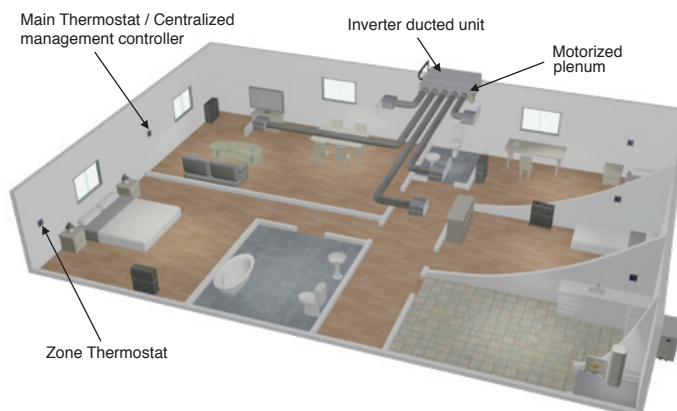
### Round duct adapter

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

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



### Main components



### OUTDOOR UNIT

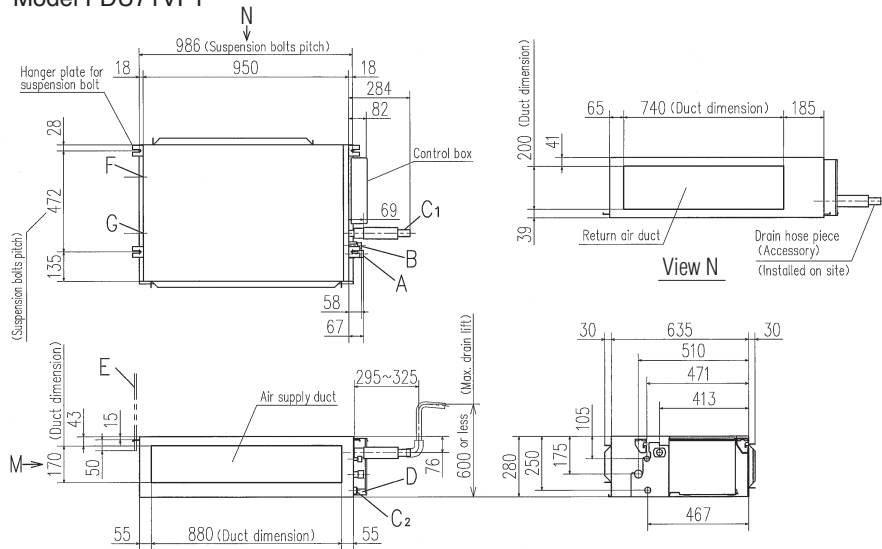
FDC	<i>Hyper Inverter</i>		<i>Micro Inverter</i>		
	71VNX	100~140VN(S)X	100~140VN(S)	200VSA	250VSA
model					
Chargeless	30m		30m		
Height x Width x Depth (mm)	750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

<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

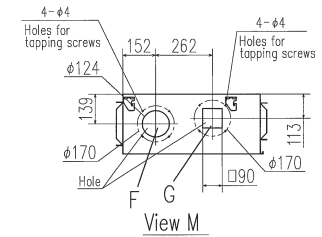


### DIMENSIONS (Unit:mm)

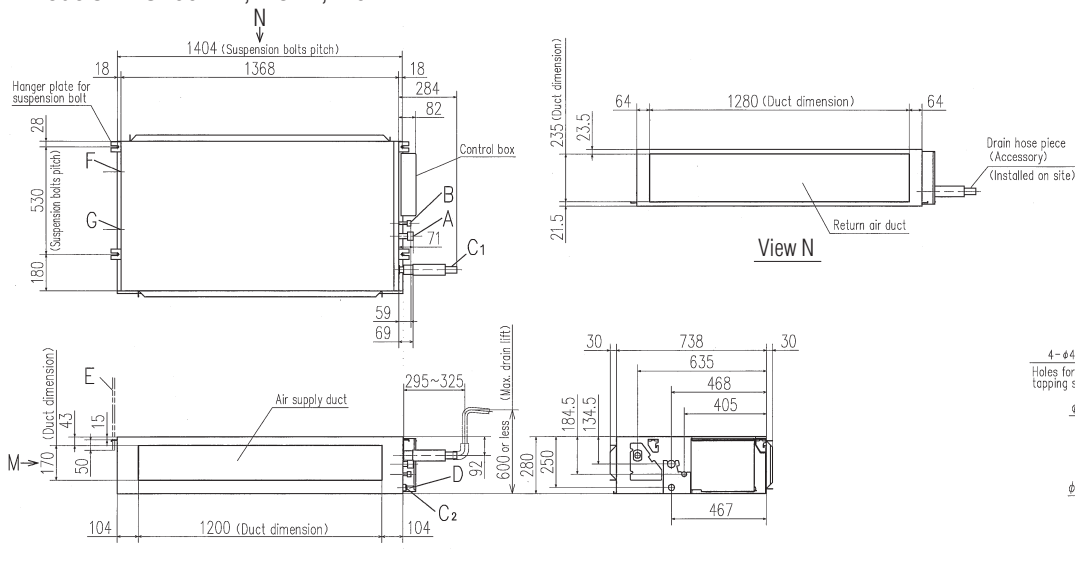
## Model FDU71VF1



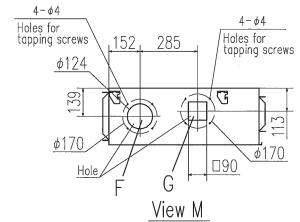
Symbol	Content
A	Gas piping #15.88 (5/8") (Flare)
B	Liquid piping #9.52 (3/8") (Flare)
C1	Drain piping VP25 (O.D.32)
C2	Drain piping (Gravity drainage) VP20 (O.D.26)
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting (Knock out)
G	Air outlet opening for ducting (Knock out)
H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



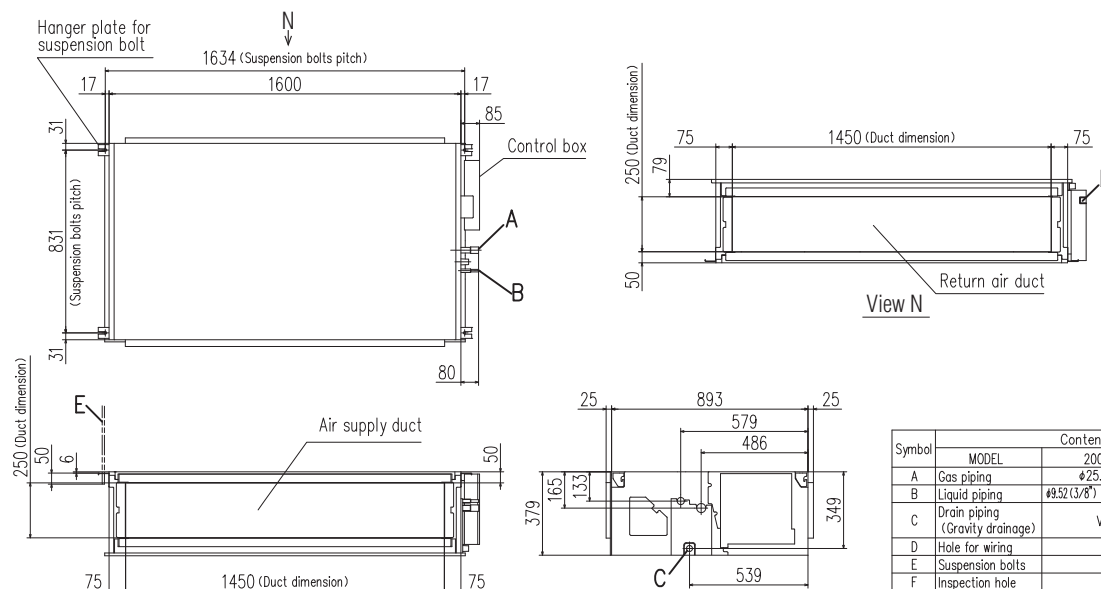
Models FDU100VF2,125VF,140VF



Symbol	Content
A	Gas piping ø15.88 (5/8") (Flare)
B	Liquid piping ø9.52 (3/8") (Flare)
C1	Drain piping VP25 (0.0.32)
C2	Drain piping (Gravity drainage) VP20 (0.0.26)
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting (Knock out)
G	Air outlet opening for ducting (Knock out)
H	Inspection hole (450X450)



### Models FDU200VG, 250VG



Symbol	Content		
	MODEL	200	250
A	Gas piping	ø25.4 (1") (Brazing)	
B	Liquid piping	ø9.52 (3/8") (Brazing) ø12.7 (1/2") (Brazing)	
C	Drain piping (Gravity drainage)	VP25 (O.D.32)	
D	Hole for wiring		
E	Suspension bolts	M10	
F	Inspection hole	(450X450)	

## SPECIFICATIONS

				HyperInverter				
Set model name				FDU71VNXVF1	FDU100VNXVF2	FDU125VNXVF	FDU140VNXVF	
Indoor unit				FDU71VF1	FDU100VF2	FDU125VF	FDU140VF	
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)				kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)				kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption		Cooling/Heating	kW	2.05 / 2.01	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP		Cooling/Heating		3.46 / 3.98	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current			A	5	5	5	5	
Max. current				17	25	29	30	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
Air flow ※1	Outdoor	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50	49 / 52	
		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			FDU100VNVF2	FDU125VNVF	FDU140VNVF	FDU100VSF2	FDU125VSF	FDU140VSF		
Indoor unit			FDU100VF2	FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF		
Outdoor unit			FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS		
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)			kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating	kW	2.80 / 3.02	3.90 / 3.88	4.95 / 4.69	2.80 / 3.02	3.90 / 3.88	4.95 / 4.69		
EER/COP	Cooling/Heating		3.57 / 3.71	3.21 / 3.61	2.83 / 3.41	3.57 / 3.71	3.21 / 3.61	2.83 / 3.41		
Inrush current		A	5	5	5	5	5	5		
Max. current			25	27	28	16	18	19		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
Air flow ※1	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
	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			81						
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")							
Refrigerant line (one way) length			m	Max.50						
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling	°C	-15~43*3							
	Heating		-20~20							
Air filter				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					1 Phase 220-240V, 50Hz / 220V, 60Hz	
Nominal cooling capacity (Min~Max)			kW	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )		
Nominal heating capacity (Min~Max)			kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )		
Power consumption	Cooling/Heating		kW	6.15 / 6.03	7.98 / 7.20	2.63 / 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		
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	72 / 64 / 56	72 / 64 / 56	19 / 15 / 10	28 / 25 / 19	28 / 25 / 19		
		Heating (Hi/Me/Lo)		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)VF2 44dB(A), 125VN(S)VF 45dB(A), 140VN(S)VF 47dB(A), 200/250VSAVG:52dB(A),71VNPVF1 38dB(A), 90VNPVF2 44dB(A), 100VNP1VF2 44dB(A)

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

### NOTES:

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

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

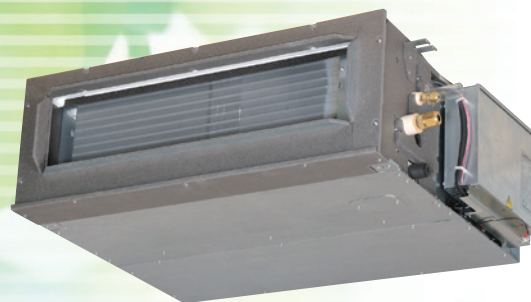
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

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

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



# DUCT CONNECTED -Low/Middle Static pressure- FDUM



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

## Remote control (Option)

NEW

Wired

NEW

Wireless



RC-EX3



RC-E5



RCH-E3



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

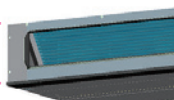
Point 1

## Thin design

The height of all FDUM models is only 280mm.

70mm less

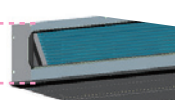
H 350  
H 280



FDUM100/125/140VF

19mm less

H 299  
H 280



FDUM40/50/60/71VF

Point 2

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

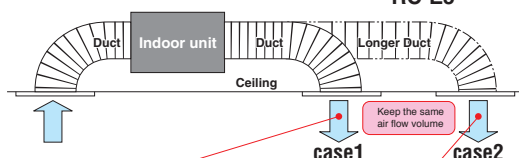
You can set External Static Pressure (E.S.P.) by method of manual setting on remote control. Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of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

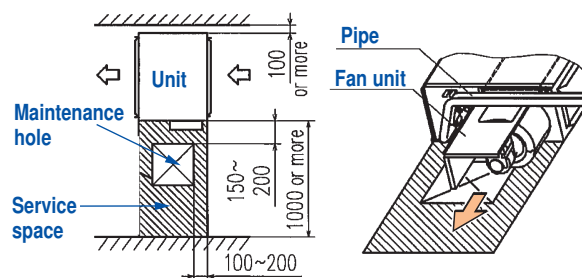
<Expansion of external static pressure range>

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

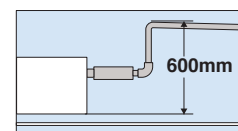
Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan. (Please refer to P37)

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.

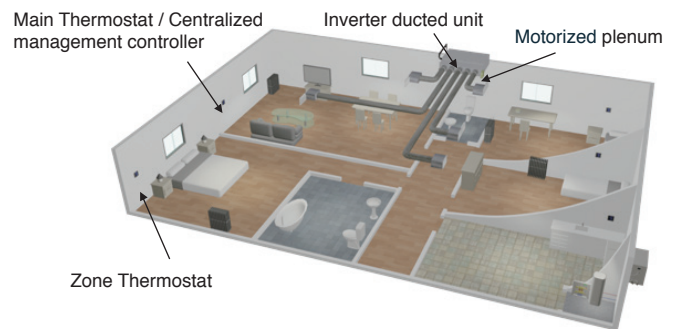
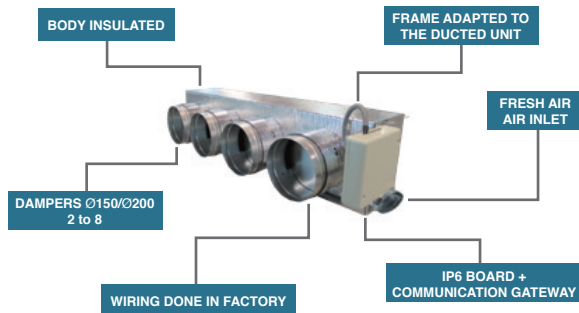


Company : AIRZONE  
URL : <http://www.airzone.es>












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

## Main components



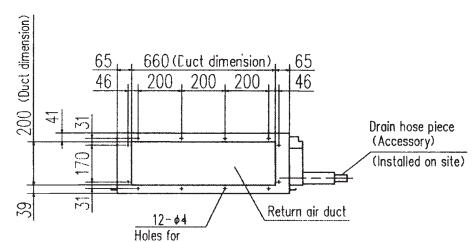
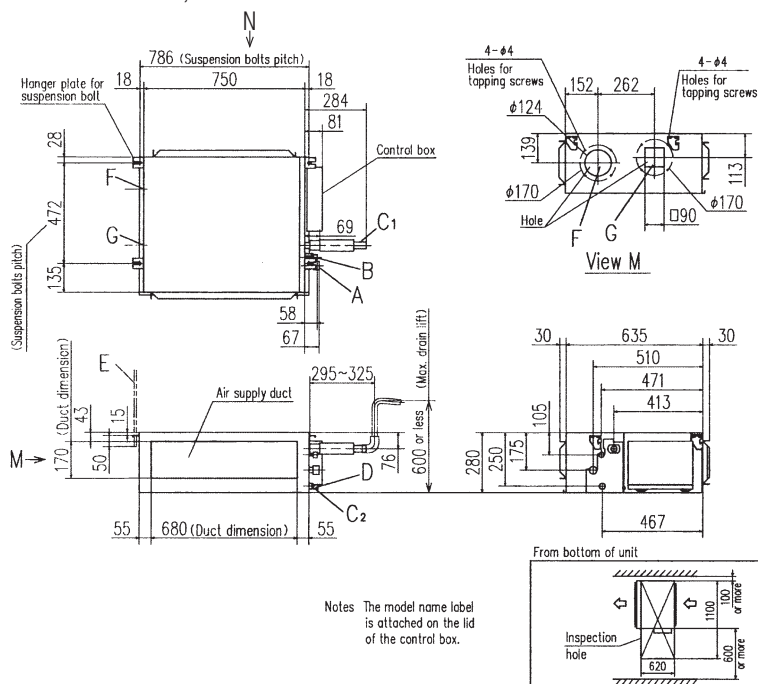
## ■ OUTDOOR UNIT

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

	<i><b>Standard Inverter</b></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

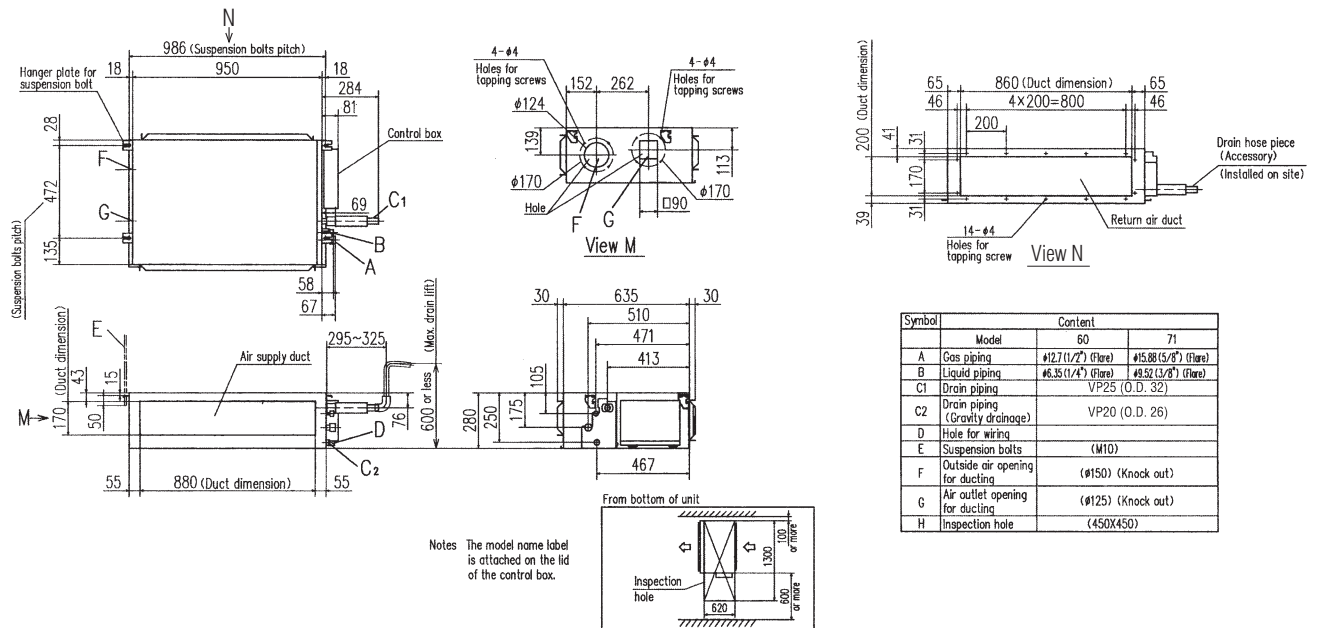


View N

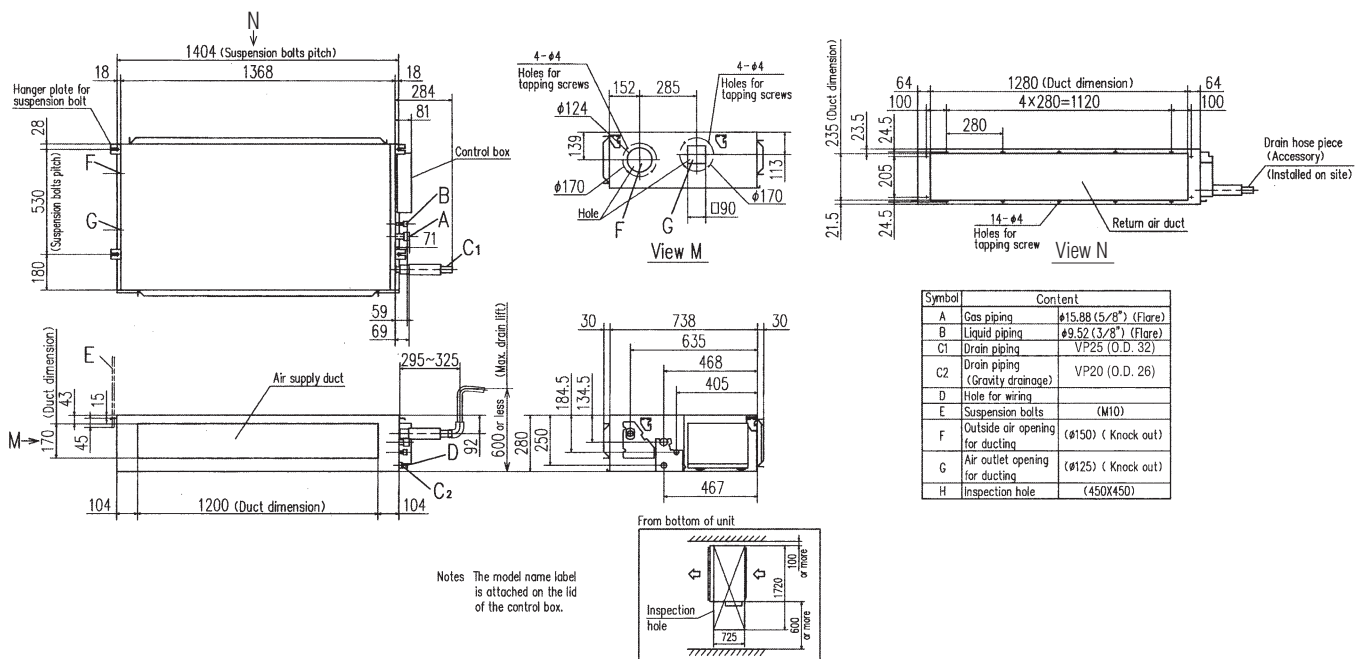
Symbol	Content
A	Gas piping $\phi 12.7 (1/2")$ (Flare)
B	Liquid piping $\phi 6.35 (1/4")$ (Flare)
C1	Drain piping      VP25 (O.D. 32)
C2	Drain piping (Gravity drainage)      VP20 (O.D. 26)
D	Hole for wiring
E	Suspension bolts      (M10)
F	Outside air opening for ducting      ( $\phi 150$ ) (Knock out)
G	Air outlet opening for ducting      ( $\phi 125$ ) (Knock out)
H	Inspection hole      ( $\phi 50 \times 450$ )

## 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					

				HyperInverter					
Set model name				FDUM125VNXVF	FDUM140VNXVF	FDUM100VSXVF2	FDUM125VSXVF	FDUM140VSXVF	
Indoor unit				FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF	
Outdoor unit				FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)			kW	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	
Power consumption	Cooling/Heating		kW	3.49 / 3.77	4.28 / 4.42	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP	Cooling/Heating			3.58 / 3.71	3.27 / 3.62	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current		A		5	5	5	5	5	
Max. current				26	26	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	70 / 70	72 / 72	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) 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	
	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.

\*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	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM50VF	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)			kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )	
Power consumption	Cooling/Heating	kW	2.01 / 1.91	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69	
EER/COP	Cooling/Heating		3.53 / 4.19	3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41	
Inrush current		A	5	5	5	5	5	
Max. current			17	24	26	26	26	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
		Heating (Hi/Me/Lo)		39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
Air flow ※2	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
	Indoor*2	Cooling (Hi/Me/Lo)		10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
		Heating (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	
External static pressure*3		Pa	Standard:35 Max:100					
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 750 x 635
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor		kg	29		34		29
	Outdoor			60		105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50	Max.100			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*4					
	Heating		-20~20					
Air filter			Filter kit : UM-FL1EF / UM-FL2EF (option)					
Remote control (option)			wired:RC-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	FDUM60VF	FDUM71VF1	FDUM50VF
Outdoor unit				FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW		10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW		11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption		Cooling/Heating	kW	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69
EER/COP		Cooling/Heating		3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41
Inrush current			A	5	5	5	5
Max. current				15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)	dB(A)	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
		Heating (Hi/Me/Lo)		32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26
Air flow ※2	Outdoor	Cooling/Heating	m³/min	48 / 50	48 / 50	49 / 52	49 / 52
	Indoor*2	Cooling (Hi/Me/Lo)		10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
		Heating (Hi/Me/Lo)		10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100
External static pressure*3			Pa	Standard:35 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635	
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	29		34	
	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 <td>Outdoor is higher/lower</td> <td colspan="4">Max.30 / Max.15</td>			Outdoor is higher/lower	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			

※2 Powerful-Hi can be selected.

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

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

## SPECIFICATIONS

				Micro Inverter						
Set model name				FDUM100VNVF2	FDUM125VNVF	FDUM140VNVF	FDUM100VSVF2	FDUM125VSVF	FDUM140VSVF	
Indoor unit				FDUM100VF2	FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF	
Outdoor unit				FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)			kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating		kW	2.80 / 3.02	3.90 / 3.88	4.95 / 4.69	2.80 / 3.02	3.90 / 3.88	4.95 / 4.69	
EER/COP	Cooling/Heating			3.57 / 3.71	3.21 / 3.61	2.83 / 3.41	3.57 / 3.71	3.21 / 3.61	2.83 / 3.41	
Inrush current			A	5	5	5	5	5	5	
Max. current				24	24	24	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
		Heating (Hi/Me/Lo)		38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	
Air flow ※1	Indoor	Cooling/Heating	m³/min	49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
	Outdoor	Cooling (Hi/Me/Lo)		28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
		Heating (Hi/Me/Lo)		28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	
External static pressure*3			Pa	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
				Standard:60 Max:100						
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740						
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	54						
	Outdoor			81						
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50						
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~43*4						
	Heating			-20~20						
Air filter				Filter kit : UM-FL3EF (option)						
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-KIT4-E2						

The values are for simultaneous Multi operation.

			Micro Inverter										
Set model name			FDUM100VNPVF		FDUM125VNPVF		FDUM140VNPVF1		FDUM140VNTVF		FDUM100VSPVF		
			Twin				Triple		Twin				
Indoor unit			FDUM50VF		FDUM60VF		FDUM71VF1		FDUM50VF		FDUM50VF		
Outdoor unit			FDC100VN		FDC125VN		FDC140VN		FDC140VN		FDC100VS		
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz								3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 ( 4.0 ~ 11.2 )		12.5 ( 5.0 ~ 14.0 )		14.0 ( 5.0 ~ 14.5 )		14.0 ( 5.0 ~ 14.5 )		10.0 ( 4.0 ~ 11.2 )	
Nominal heating capacity (Min~Max)			kW	11.2 ( 4.0 ~ 12.5 )		14.0 ( 4.0 ~ 16.0 )		16.0 ( 4.0 ~ 16.5 )		16.0 ( 4.0 ~ 16.5 )		11.2 ( 4.0 ~ 12.5 )	
Power consumption		Cooling/Heating	kW	2.84 / 3.35		3.87 / 4.07		4.78 / 4.60		4.65 / 5.15		2.84 / 3.35	
EER/COP		Cooling/Heating		3.52 / 3.34		3.23 / 3.44		2.93 / 3.48		3.01 / 3.11		3.52 / 3.34	
Inrush current			A	5		5		5		5		5	
Max. current				24		24		24		15		15	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60		60 / 60		65 / 65		60 / 60		60 / 60	
	Outdoor	Cooling/Heating		70 / 70		72 / 72		73 / 73		73 / 73		70 / 70	
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)		32 / 29 / 26		31 / 28 / 25		33 / 29 / 25		32 / 29 / 26		32 / 29 / 26	
		Heating (Hi/Me/Lo)		32 / 29 / 26		31 / 28 / 25		33 / 29 / 25		32 / 29 / 26		32 / 29 / 26	
Air flow ※1	Indoor*2	Cooling/Heating		49 / 49		50 / 51		51 / 51		51 / 51		49 / 49	
	Indoor*2	Cooling (Hi/Me/Lo)		10 / 9 / 8		15 / 13 / 10		19 / 15 / 10		10 / 9 / 8		10 / 9 / 8	
		Heating (Hi/Me/Lo)	10 / 9 / 8		15 / 13 / 10		19 / 15 / 10		10 / 9 / 8		10 / 9 / 8		
	Outdoor	Cooling/Heating	75 / 73		75 / 73		75 / 73		75 / 73		75 / 73		75 / 73
External static pressure*3			Pa	Standard:35 Max:100									
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 750 x 635					
	Outdoor		845 x 970 x 370										
Net weight	Indoor		kg	29		34		29					
	Outdoor		81		81		83						
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")									
Refrigerant line (one way) length			m	Max.50									
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15									
Outdoor operating temperature range	Cooling		°C	-15~43*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)VF2 44dB(A), 125VN(S)VF 45dB(A), 140VN(S)VF 47dB(A), 100VN(S)PVF 37dB(A), 125VNPVF 36dB(A), 140VNPVF1 38dB(A), 140VNTVF 37dB(A)

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

### NOTES:

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

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

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

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

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



## SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter					
Set model name			FDUM125VSPVF	FDUM140VSPVF1	FDUM200VSAPVF2	FDUM250VSAPVF	FDUM140VSTVF	FDUM200VSATVF1
			Twin				Triple	
Indoor unit			FDUM60VF	FDUM71VF1	FDUM100VF2	FDUM125VF	FDUM50VF	FDUM71VF1
Outdoor unit			FDC125VS	FDC140VS	FDC200VSA	FDC250VSA	FDC140VS	FDC200VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)		kW	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )
Nominal heating capacity (Min~Max)		kW	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )
Power consumption		Cooling/Heating kW	3.87 / 4.07	4.78 / 4.60	6.51 / 6.04	8.33 / 7.52	4.65 / 5.15	6.46 / 6.15
EER/COP		Cooling/Heating	3.23 / 3.44	2.93 / 3.48	2.92 / 3.71	2.88 / 3.59	3.01 / 3.11	2.94 / 3.64
Inrush current		A	5	5	5	5	5	5
Max. current			15	15	22	24	15	22
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	65 / 65	65 / 65	67 / 67	60 / 60	65 / 65
	Outdoor	Cooling/Heating	72 / 72	73 / 73	72 / 74	73 / 75	73 / 73	72 / 74
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	31 / 28 / 25 31 / 28 / 25	33 / 29 / 25 33 / 29 / 25	38 / 36 / 30 38 / 36 / 30	40 / 34 / 29 40 / 34 / 29	32 / 29 / 26 32 / 29 / 26	33 / 29 / 25 33 / 29 / 25
	Outdoor	Cooling/Heating	50 / 51	51 / 51	58 / 59	59 / 62	51 / 51	58 / 59
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo)	15 / 13 / 10 15 / 13 / 10	19 / 15 / 10 19 / 15 / 10	28 / 25 / 19 28 / 25 / 19	32 / 26 / 20 32 / 26 / 20	10 / 9 / 8 10 / 9 / 8	19 / 15 / 10 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	280 x 950 x 635		280 x 1,370 x 740		280 x 750 x 635	280 x 950 x 635
	Outdoor		845 x 970 x 370		1,300 x 970 x 370		845 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor		34		54		29	34
	Outdoor		83		115		83	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") / 22.22(7/8")
Refrigerant line (one way) length			m		Max.50		Max.70	Max.70
Vertical height differences		Outdoor is higher/lower	m		Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15-43*4		-15-50*4		-15-43*4	-15-50*4
	Heating		-20-20		-15-20		-20-20	-15-20
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)					
Remote control (option)			wired:RC-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	
Max. current				14.5	18.0	
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	38 / 36 / 30
		Heating (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30	38 / 36 / 30
Air flow ※2	Indoor	Cooling/Heating	m³/min	54 / 54	57 / 55	
		Cooling (Hi/Me/Lo)		19 / 15 / 10	28 / 25 / 19	
	Outdoor	Heating (Hi/Me/Lo)		19 / 15 / 10	28 / 25 / 19	
		Cooling/Heating		36 / 36	63 / 49.5	75 / 79
External static pressure*3			Pa	Standard:35 Max:200                      Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635		
	Outdoor			640 x 800(+71) x 290                      750 x 880(+88) x 340                      845 x 970 x 370		
Net weight	Indoor		kg	34    54		
	Outdoor			45    57    70		
Ref.piping size		Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")                      6.35(1/4") / 15.88(5/8")                      9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.30		
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling		°C	-15~46*4		
	Heating			-15~20		
Air filter			Filter kit : UM-FL2EF / UM-FL3EF (option)			
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-KIT4-E2			

※2 Powerful-Hi can be selected.

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

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

# WALL MOUNTED SRK



**NEW**



Only used with Multi System.

**SRK 50•60**



Common to the both case of Single and Multi

**SRK 100**

**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**

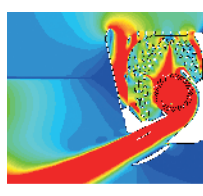
## Jet Technology

**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.

SRK60ZSX  
(in cooling operation)



**17m**

**20m**

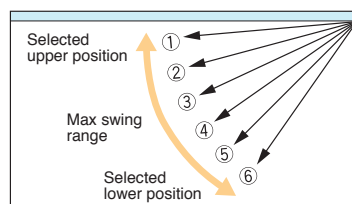


SRK100ZR  
(in cooling operation)

**Point 4**

## Flap control system

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

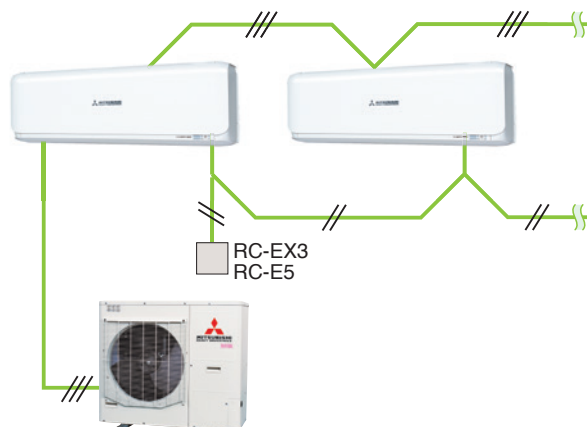


\*The wireless remote control is not applicable to the flap control system.

**Point 5**

## Indoor unit connection

Max three indoor units are connectable to one outdoor unit.



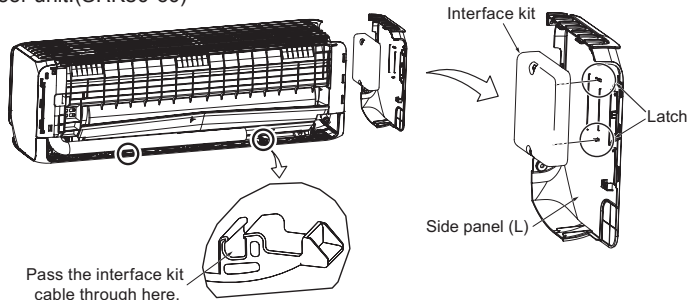
\*SC-BIKN-E is necessary to connect to wired remote controller.

Point  
6

# SC-BIKN-E connection

(option)

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

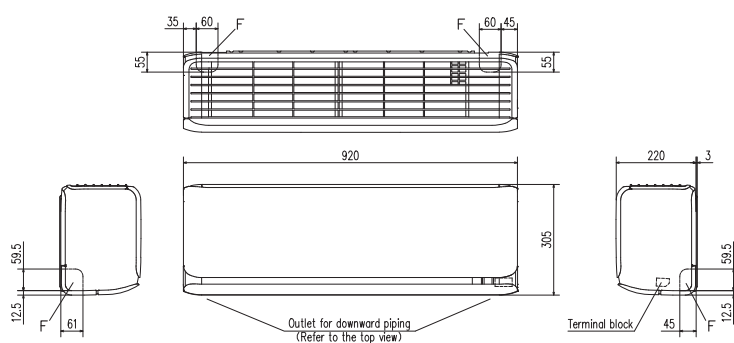


## OUTDOOR UNIT

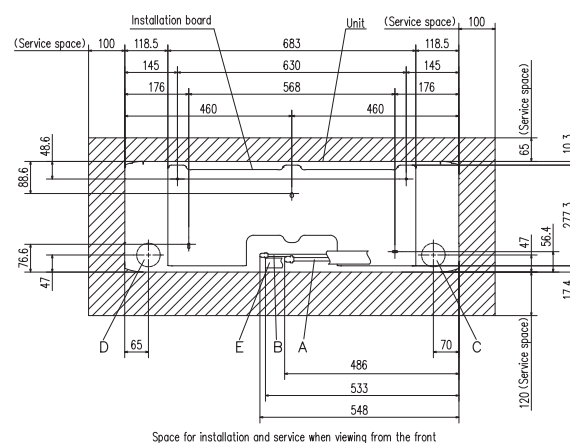
	<i>Hyper Inverter</i>	<i>Micro Inverter</i>		<i>Standard Inverter</i>
FDC	100~140VN(S)X	100~140VN(S)	200VSA	100VNP
model				
Chargeless	30m	30m	30m	15m
Height x Width x Depth (mm)	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	845 x 970 x 370

## DIMENSIONS (Unit:mm)

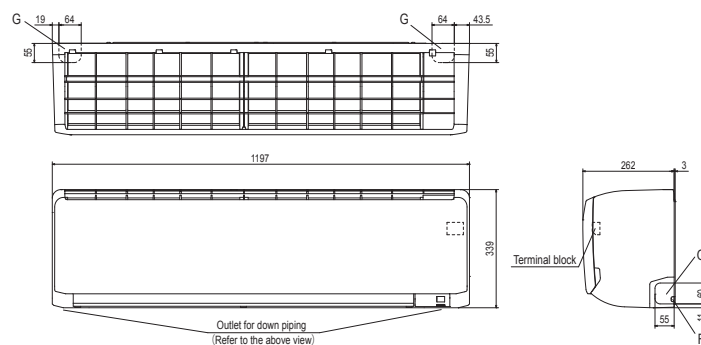
SRK50ZSX-S, 60ZSX-S



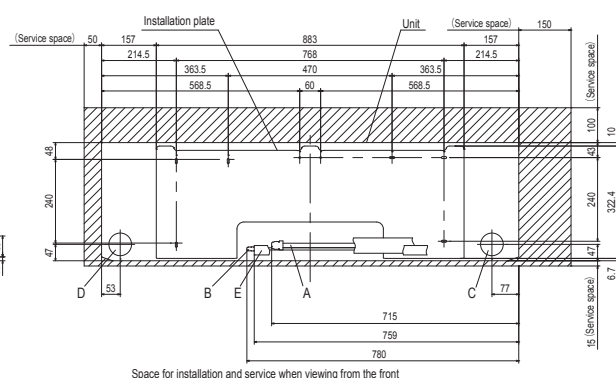
Symbol	Content
A	Gas piping φ12.7 (1/2") (Flare)
B	Liquid piping φ6.35 (1/4") (Flare)
C	Hole on wall for right rear piping (φ65)
D	Hole on wall for left rear piping (φ65)
E	Drain hose VP16
F	Outlet for piping



SRK100ZR-S



Symbol	Content
A	Gas piping φ15.88 (5/8") (Flare)
B	Liquid piping φ9.52 (3/8") (Flare)
C	Hole on wall for right rear piping (φ65)
D	Hole on wall for left rear piping (φ65)
E	Drain hose VP16
F	Outlet for wiring (on both side)
G	Outlet for piping (on both side)





## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter					
		SRK100VNXPSZX	SRK125VNXPSZX	SRK140VNXPSZX	SRK100VSPPSZX	SRK125VSPPSZX	SRK140VSPPSZX
		Twin		Triple	Twin		Triple
Indoor unit		SRK50ZSX-S	SRK60ZSX-S	SRK50ZSX-S	SRK50ZSX-S	SRK60ZSX-S	SRK50ZSX-S
Outdoor unit		FDC100VNX	FDC125VNX	FDC140VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	2.66 / 2.60	3.60 / 3.48	3.98 / 3.68	2.66 / 2.60	3.60 / 3.48	3.98 / 3.68
EER/COP	Cooling/Heating	3.76 / 4.31	3.47 / 4.02	3.52 / 4.35	3.76 / 4.31	3.47 / 4.02	3.52 / 4.35
Inrush current	A	5	5	5	5	5	5
Max. current		24	26	26	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	59 / 62	62 / 63	59 / 62	62 / 63
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	70 / 70
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	dB(A)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22	46 / 41 / 33 / 22
	Outdoor	Heating (Hi/Me/Lo/Ulo)		46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23	46 / 42 / 34 / 23
	Indoor*2	Cooling/Heating	m³/min	48 / 50	48 / 50	49 / 52	48 / 50
	Outdoor	Cooling/Heating		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
Air flow	Indoor*2	Heating (Hi/Me/Lo/Ulo)	m³/min	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
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	305 x 920 x 220			
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	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-BIKN-E			

The values are for simultaneous Multi operation.

Set model name		Micro Inverter					
		SRK100VNPZSX	SRK125VNPZSX	SRK140VNPZSX	SRK100VSPZSX	SRK125VSPZSX	SRK140VSPZSX
		Twin		Triple	Twin		Triple
Indoor unit		SRK50ZSX-S	SRK60ZSX-S	SRK50ZSX-S	SRK50ZSX-S	SRK60ZSX-S	SRK50ZSX-S
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	2.84 / 2.86	4.25 / 4.29	4.53 / 4.05	2.84 / 2.86	4.25 / 4.29	4.53 / 4.05
EER/COP	Cooling/Heating	3.52 / 3.92	2.94 / 3.26	3.09 / 3.95	3.52 / 3.92	2.94 / 3.26	3.09 / 3.95
Inrush current	A	5	5	5	5	5	5
Max. current		24	24	24	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	59 / 62	62 / 63	59 / 62	62 / 63
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	dB(A)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22	46 / 41 / 33 / 22
	Outdoor	Heating (Hi/Me/Lo/Ulo)		46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23	46 / 42 / 34 / 23
	Indoor*2	Cooling/Heating	m³/min	49 / 49	50 / 51	51 / 51	49 / 49
	Outdoor	Cooling/Heating		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
Air flow	Indoor*2	Heating (Hi/Me/Lo/Ulo)	m³/min	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
	Outdoor	Cooling/Heating		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			81			
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m		Max. 50			
Vertical height differences	Outdoor is higher/lower	m		Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C		-15~43*3			
	Heating			-20~20			
Air filter, Q'ty				Polypropylene net x 2(washable)			
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E			

## SPECIFICATIONS

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

			Standard Inverter	
Set model name			SRK100VNP1ZR	SRK200VSAPZR
				Twin
Indoor unit			SRK100ZR-S	SRK100ZR-S
Outdoor unit			FDC100VNP	FDC200VSA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW 10.0 ( 2.4 ~ 10.5 )	19.0 ( 5.2 ~ 22.4 )
Nominal heating capacity (Min~Max)			kW 11.2 ( 3.2 ~ 11.5 )	22.4 ( 3.3 ~ 25.0 )
Power consumption		Cooling/Heating	kW 3.09 / 3.28	7.52 / 7.41
EER/COP		Cooling/Heating	3.24 / 3.41	2.53 / 3.02
Inrush current			14.4	5
Max. current			21	20
Sound power level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling/Heating	63 / 63	63 / 63
	Outdoor	Cooling/Heating	70 / 74	72 / 74
Sound pressure level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling (Hi/Me/L0/Ulo)	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	57 / 61	58 / 59
	Indoor* <sup>2</sup>	Cooling (Hi/Me/L0/Ulo)	24.5 / 21.3 / 17.6	24.5 / 21.3 / 17.6 / 10.4
		Heating (Hi/Me/L0/Ulo)	27.5 / 23.2 / 19.1	27.5 / 23.2 / 19.1 / 13.6
			75 / 80	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262	
	Outdoor		mm 845 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor		16.5	
	Outdoor		kg 70	115
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length			m Max.30	Max.70
Vertical height differences			Outdoor is higher/lower m Max.20 / Max.20	Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15~46* <sup>3</sup>	-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-BIKN-E	

### NOTES:

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

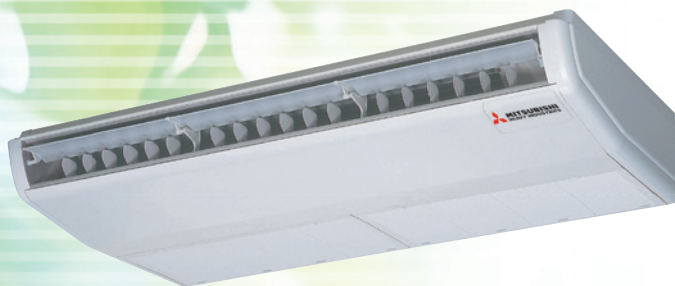
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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

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

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

# CEILING SUSPENDED FDE



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

## Remote control (Option)

NEW

Wired

Wireless



RC-EX3



RC-E5



RCH-E3



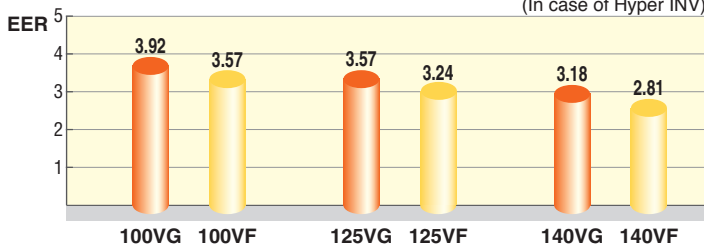
RCN-E-E2

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

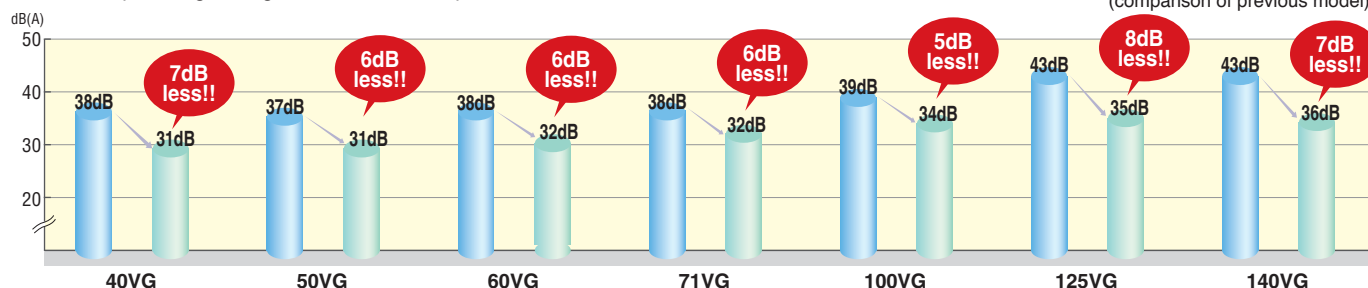
Thanks to decreasing the numbers of fan motor from two to one, reduction of weight was achieved.

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

Point 3

## More quiet noise

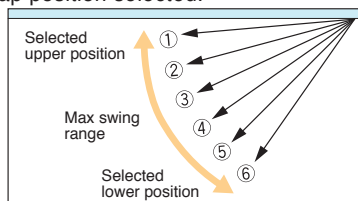
The industry's lowest sound pressure levels were achieved by decreasing air flow volume, decreasing pressure loss with employment of one fan motor and optimizing casing and distributor shape.



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.





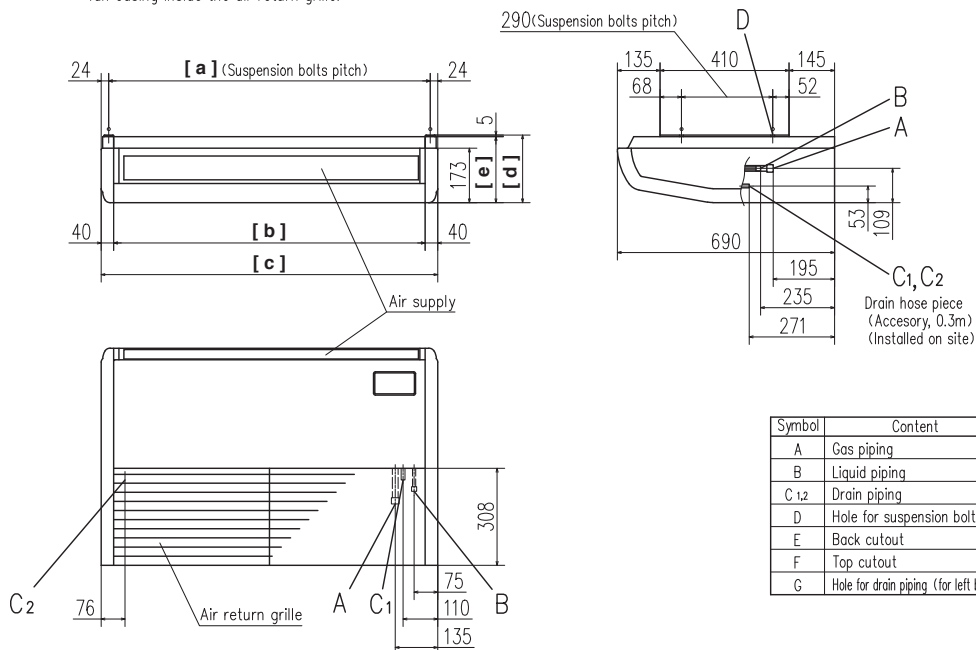
## OUTDOOR UNIT

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

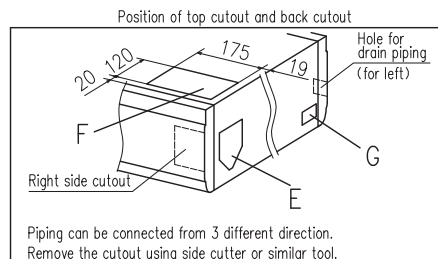
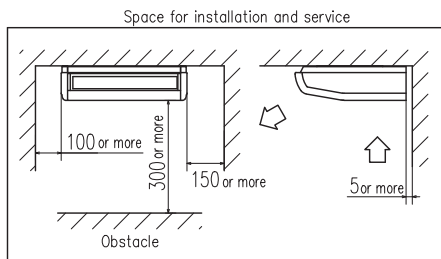
FDC	Standard Inverter		
	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm)

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



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



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

## DIMENSIONS TABLE

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

## SPECIFICATIONS

			Hyper Inverter					
Set model name			FDE40ZSXVG	FDE50ZSXVG	FDE60ZSXVG	FDE71VNXVG	FDE100VNXVG	
Indoor unit			FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG	
Outdoor unit			SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)			kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	
Nominal heating capacity (Min~Max)			kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	
Power consumption	Cooling/Heating	kW	1.02 / 1.10	1.52 / 1.46	1.75 / 1.86	2.11 / 2.11	2.55 / 2.68	
EER/COP	Cooling/Heating		3.92 / 4.09	3.29 / 3.70	3.20 / 3.60	3.36 / 3.79	3.92 / 4.18	
Inrush current		A	5	5	5	5	5	
Max. current			12	15	15	17	24	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	64 / 64	
	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64	66 / 66	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34
		Heating (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34
	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52	51 / 48	48 / 50
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5
		Heating (Hi/Me/Lo)		10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5
	Outdoor	Cooling/Heating		36 / 33	40 / 33	41.5 / 39	60 / 50	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		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	
Net weight	Indoor		kg	28		33		43
	Outdoor			45		60		105
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")				9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.30				Max.50      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*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					

			Hyper Inverter				
Set model name			FDE125VNXVG	FDE140VNXVG	FDE100VSXVG	FDE125VSXVG	FDE140VSXVG
Indoor unit			FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG
Outdoor unit			FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			kW 14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	kW	3.50 / 3.77	4.40 / 4.69	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69
EER/COP	Cooling/Heating		3.57 / 3.71	3.18 / 3.41	3.92 / 4.18	3.57 / 3.71	3.18 / 3.41
Inrush current			A	5	5	5	5
Max. current				26	26	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	65 / 65	64 / 64	65 / 65
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 36
		Heating (Hi/Me/Lo)		45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 36
	Outdoor	Cooling/Heating		48 / 50	49 / 52	48 / 50	49 / 52
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min	29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17
		Heating (Hi/Me/Lo)		29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690			
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	43			
	Outdoor			105			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.100			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling		°C	-15~43*3			
	Heating			-20~20			
Air filter, Q'ty				Pocket Plastic net x2(Washable)			
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2			

※1 Powerful-Hi can be selected.

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

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

			HyperInverter				
Set model name			FDE71VNXPVG	FDE100VNXPVG	FDE125VNXPVG	FDE140VNXPVG	FDE140VNXTVG
			Twin				Triple
Indoor unit			FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE50VG
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption		Cooling/Heating	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	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level* <sup>1</sup> ※2	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
		Heating (Hi/Me/Lo)		38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52
		Cooling (Hi/Me/Lo)		10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
Air flow ※2	Outdoor	Heating (Hi/Me/Lo)	m³/min 10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
		Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor		kg	28		33	
	Outdoor			60	105		
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max. 50	Max. 100		
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43* <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.

			HyperInverter				
Set model name			FDE100VSXPVG	FDE125VSXPVG	FDE140VSXPVG	FDE140VSXTVG	
			Twin			Triple	
Indoor unit			FDE50VG	FDE60VG	FDE71VG	FDE50VG	
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)			kW 11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	16.0 ( 4.0 ~ 20.0 )	
Power consumption		Cooling/Heating	kW 3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53	
EER/COP		Cooling/Heating	3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53	
Inrush current		A	5	5	5	5	
Max. current			15	15	15	15	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	
Sound pressure level*1 ※2	Indoor*2	Cooling (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	
		Heating (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	
		Cooling/Heating		48 / 50	48 / 50	49 / 52	
Air flow ※2	Indoor*2	Cooling (Hi/Me/Lo)	m³/min	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
		Heating (Hi/Me/Lo)		10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth		mm	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
	Outdoor		105				
	9.52(3/8") / 15.88(5/8")						
Ref.piping size		Liquid/Gas	ømm	Max.100			
Refrigerant line (one way) length			m	Max.30 / Max.15			
Vertical height differences		Outdoor is higher/lower	m	-15~43*3			
Outdoor operating temperature range	Cooling		°C	-20~20			
	Heating						
Air filter, Q'ty			Pocket plastic net x 2(Washable)				
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2				

※2 Powerful-Hi can be selected.

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

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



## SPECIFICATIONS

			Micro Inverter							
Set model name			FDE100VNVG	FDE125VNVG	FDE140VNVG	FDE100VSVG	FDE125VSVG	FDE140VSVG		
Indoor unit			FDE100VG	FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG		
Outdoor unit			FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS		
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)			kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating		kW	2.85 / 2.90	4.45 / 4.08	5.80 / 4.92	2.85 / 2.90	4.45 / 4.08	5.80 / 4.92	
EER/COP	Cooling/Heating			3.51 / 3.86	2.81 / 3.43	2.41 / 3.25	3.51 / 3.86	2.81 / 3.43	2.41 / 3.25	
Inrush current		A		5	5	5	5	5	5	
Max. current				24	24	24	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	64 / 64	65 / 65	64 / 64	64 / 64	65 / 65	
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)		43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	
		Heating (Hi/Me/Lo)		43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	
Air flow ※1	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
	Indoor	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		
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690						
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	43			83			
	Outdoor			81						
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50						
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~43*3						
	Heating			-20~20						
Air filter, Q'ty				Pocket Plastic net x2(Washable)						
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2						

The values are for simultaneous Multi operation.

			Micro Inverter											
Set model name			FDE100VNPVG		FDE125VNPVG		FDE140VNPVG		FDE140VNTVG		FDE100VSPVG		FDE125VSPVG	
			Twin				Triple		Twin					
Indoor unit			FDE50VG		FDE60VG		FDE71VG		FDE50VG		FDE50VG		FDE60VG	
Outdoor unit			FDC100VN		FDC125VN		FDC140VN		FDC140VN		FDC100VS		FDC125VS	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz								3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	14.0 ( 5.0 ~ 14.5 )	14.0 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )				
Nominal heating capacity (Min~Max)			kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	16.0 ( 4.0 ~ 16.5 )	16.0 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )				
Power consumption		Cooling/Heating	kW	3.12 / 3.49	4.16 / 3.80	4.87 / 4.59	4.88 / 4.57	4.88 / 4.57	3.12 / 3.49	4.16 / 3.80				
EER/COP		Cooling/Heating		3.21 / 3.21	3.00 / 3.68	2.87 / 3.49	2.87 / 3.50	2.87 / 3.50	3.21 / 3.21	3.00 / 3.68				
Inrush current			A	5	5	5	5	5	5	5				
Max. current				24	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	60 / 60				
	Outdoor	Cooling/Heating		70 / 70	72 / 72	73 / 73	73 / 73	73 / 73	70 / 70	72 / 72				
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	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	41 / 37 / 32	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32				
	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	51 / 51	51 / 51	49 / 49	50 / 51				
		Cooling (Hi/Me/Lo)		10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	16 / 13 / 10	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10				
Air flow ※1	Indoor*2	Heating (Hi/Me/Lo)	m³/min	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	16 / 13 / 10	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10				
		Cooling/Heating		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	75 / 73	75 / 73			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690		210 x 1,070 x 690		210 x 1,320 x 690				
	Outdoor			845 x 970 x 370										
Net weight	Indoor		kg	28		33		28		33				
	Outdoor			81								83		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")										
Refrigerant line (one way) length			m	Max. 50										
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15									
Outdoor operating temperature range	Cooling		°C	-15~43*3										
	Heating			-20~20										
Air filter, Q'ty				Pocket plastic net x 2(Washable)										
Remote control (option)				wired:RC-EX3, RC-E5, RCH-E3    wireless:RCN-E-E2										

※1 Powerful-Hi can be selected.

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

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter				
Set model name			FDE140VSPVG	FDE200VSAPVG	FDE250VSAPVG	FDE140VSTVG	FDE200VSATVG
			Twin			Triple	
Indoor unit			FDE71VG	FDE100VG	FDE125VG	FDE50VG	FDE71VG
Outdoor unit			FDC140VS	FDC200VSA	FDC250VSA	FDC140VS	FDC200VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )
Nominal heating capacity (Min~Max)			kW 16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )
Power consumption		Cooling/Heating	kW 4.87 / 4.59	6.34 / 6.10	8.52 / 7.54	4.88 / 4.57	6.33 / 5.94
EER/COP		Cooling/Heating	2.87 / 3.49	3.00 / 3.67	2.82 / 3.58	2.87 / 3.50	3.00 / 3.77
Inrush current			A 5	5	5	5	5
Max. current			15	20	21	15	20
Sound power level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling/Heating	dB(A)	60 / 60	64 / 64	64 / 64	60 / 60
	Outdoor	Cooling/Heating		73 / 73	72 / 74	73 / 75	73 / 73
Sound pressure level* <sup>1</sup> ※2	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo)		41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31
	Indoor* <sup>2</sup>	Heating (Hi/Me/Lo)		41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31
	Outdoor	Cooling/Heating		51 / 51	58 / 59	59 / 62	51 / 51
	Outdoor	Cooling/Heating		75 / 73	135 / 135	143 / 151	75 / 73
Air flow ※2	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo)	m³/min	16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7
	Indoor* <sup>2</sup>	Heating (Hi/Me/Lo)		16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7
	Outdoor	Cooling/Heating		75 / 73	135 / 135	143 / 151	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,320 x 690	250 x 1,620 x 690		210 x 1,070 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
Net weight	Indoor		kg	33	43		28
	Outdoor			83	115	143	83
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.50	Max.70		Max.50
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling		°C	-15~43* <sup>3</sup>	-15~50* <sup>3</sup>		-15~43* <sup>3</sup>
	Heating			-20~20	-15~20		-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.(except Standard Inverter)

			Micro Inverter		Standard Inverter		
Set model name			FDE200VSADVG	FDE250VSADVG	FDE71VNPVG	FDE90VNPVG	FDE100VNP1VG
			Double Twin				
Indoor unit			FDE50VG	FDE60VG	FDE71VG	FDE100VG	FDE100VG
Outdoor unit			FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP	FDC100VNP
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)			kW 22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption		Cooling/Heating	kW 6.90 / 7.10	8.00 / 7.02	2.50 / 1.96	2.75 / 2.22	2.66 / 2.94
EER/COP		Cooling/Heating	2.75 / 3.15	3.00 / 3.85	2.84 / 3.62	3.27 / 4.05	3.76 / 3.81
Inrush current			5	5	5	5	5
Max. current			20	21	14.5	18.0	21.0
Sound power level* <sup>1</sup>	Indoor* <sup>2</sup>	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	64 / 64
	Outdoor	Cooling/Heating		72 / 74	73 / 75	67 / 67	69 / 69
Sound pressure level* <sup>1</sup> ※2	Indoor* <sup>2</sup>	Cooling (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34
		Heating (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34
Air flow ※2	Outdoor	Cooling/Heating		58 / 59	59 / 62	54 / 54	57 / 55
		Cooling (Hi/Me/Lo)		10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5
		Heating (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690	210 x 1,320 x 690	250 x 1,620 x 690
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340
	Net weight	Outdoor		kg	28	33	33
Ref.piping size			ømm	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.70		Max.30	
Vertical height differences			m	Max.30 / Max.15		Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°C	-15~50* <sup>3</sup>		-15~46* <sup>3</sup>		
	Heating		-15~20		-15~20		
Air filter, Q'ty			Pocket plastic net x 2(Washable)		Pocket Plastic net x2(Washable)		
Remote control (option)			wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2		wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2		

※2 Powerful-Hi can be selected.

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

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

# FLOOR STANDING FDF



Wireless remote control (Option)

NEW



RCN-KIT4-E2

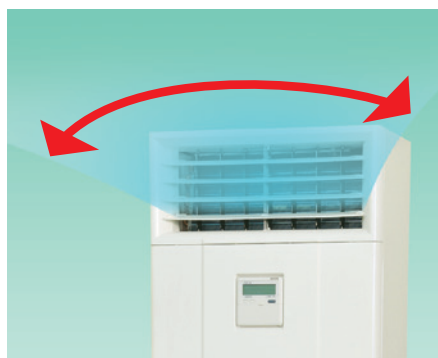


FDF 71/100/125/140

Point  
1

## Wide and powerful air flow

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



Point  
2

## Easy Transportation and Installation workability

Piping and drain hose connection can be selected out of 4-directions and the selection makes installation workability more effective. Due to slim design (Depth: 320mm), easy transportation and installation are realized.

### Easy Maintenance

The surface of heat exchanger can be appeared only removing the front panel. Easy cleaning of heat exchanger is possible.



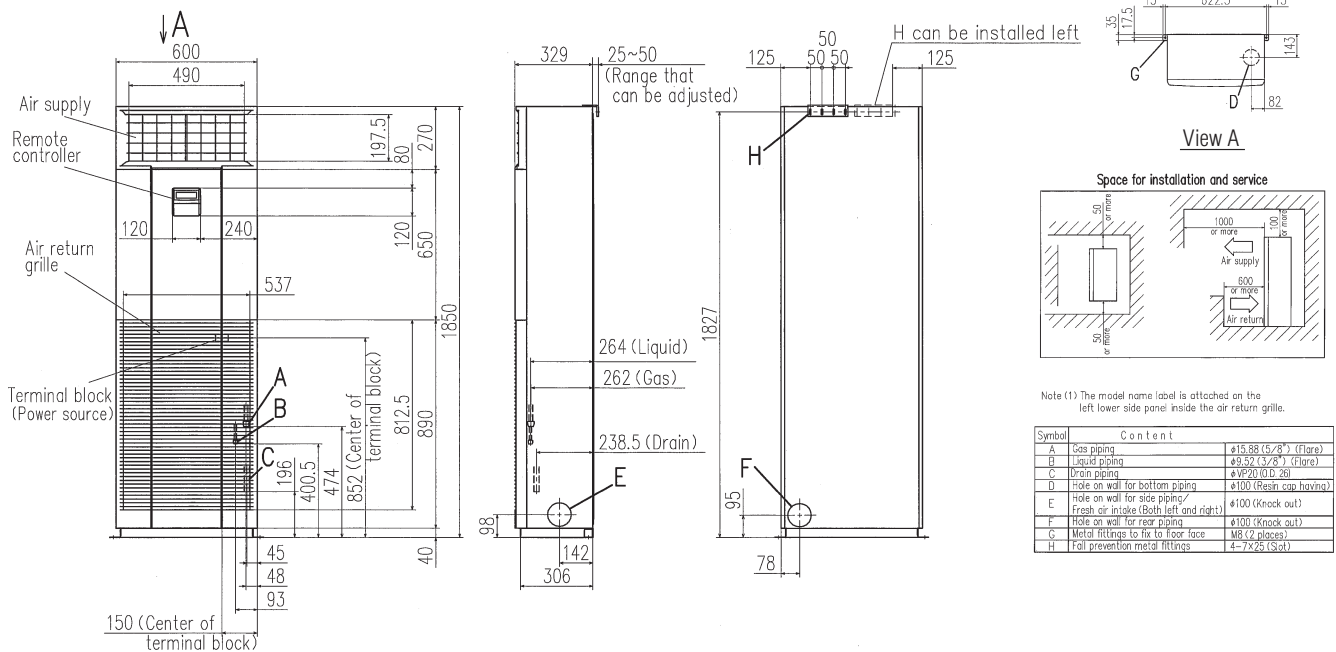
## OUTDOOR UNIT

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

### *Standard Inverter*

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

## DIMENSIONS(Unit:mm)



## SPECIFICATIONS

			Hyper Inverter								
Set model name				FDF71VNXVD1	FDF100VNXVD2	FDF125VNXVD	FDF140VNXVD	FDF100VSXVD2	FDF125VSXVD	FDF140VSXVD	
Indoor unit				FDF71VD1	FDF100VD2	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD	
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)			kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	
Power consumption			Cooling/Heating	kW	2.21 / 2.21	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP		Cooling/Heating		3.21 / 3.62	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	
Inrush current			A	5	5	5	5	5	5	5	
Max. current				17	24	26	26	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73	73 / 73	
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	
		Heating (Hi/Me/Lo)		39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	
	Outdoor	Cooling/Heating	dB(A)	51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52	
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	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: 71VNXVD1 42dB(A), 100VN(S)XVD2 54dB(A), 125/140VN(S)XVD 54dB(A)

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

### NOTES:

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

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

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

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

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



## SPECIFICATIONS

The values are for simultaneous Multi operation.

		<i>Hyper Inverter</i>	
Set model name		FDF140VNXPD1	FDF140VSXPD1
		Twin	
Indoor unit		FDF71VD1	FDF71VD1
Outdoor unit		FDC140VNX	FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V 60Hz
Nominal cooling capacity (Min~Max)	kW	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating kW	4.83 / 4.97	4.83/ 4.97
EER/COP	Cooling/Heating	2.90 / 3.22	2.90 / 3.22
Inrush current	A	5	5
Max. current		26	15
Sound power level*1	Indoor*2	Cooling/Heating	61 / 61
	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		FDF100VNVD2	FDF125VNVD	FDF140VNVD	FDF100VSVD2	FDF125VSVD	FDF140VSVD
Indoor unit		FDF100VD2	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating kW	3.12 / 3.10	4.40 / 4.36	5.15 / 5.31	3.12 / 3.10	4.40 / 4.36	5.15 / 5.31
EER/COP	Cooling/Heating	3.21 / 3.61	2.84 / 3.21	2.72 / 3.01	3.21 / 3.61	2.84 / 3.21	2.72 / 3.01
Inrush current	A	5	5	5	5	5	5
Max. current		24	24	24	15	15	15
Sound power level*1	Indoor	Cooling/Heating	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73
	Outdoor	Cooling/Heating	70 / 70	72 / 72	73 / 73	70 / 70	72 / 72
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	49 / 49	50 / 51	51 / 51	49 / 49	50 / 51
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		81				
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.50				
Vertical height differences		Outdoor is higher/lower	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: 140VN(S)XPVD1 42dB(A), 100VN(S)VD2 54dB(A), 125/140VN(S)VD 54dB(A)

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

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

			Micro Inverter				
Set model name			FDF140VNPVD1	FDF140VSPVD1	FDF200VSAPVD2	FDF250VSAPVD	
			Twin				
Indoor unit			FDF71VD1	FDF71VD1	FDF100VD2	FDF125VD	
Outdoor unit			FDC140VN	FDC140VS	FDC200VSA	FDC250VSA	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 14.0 ( 5.0 ~ 14.5 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	
Nominal heating capacity (Min~Max)			kW 16.0 ( 4.0 ~ 16.5 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	
Power consumption		Cooling/Heating	kW 5.16 / 5.01	5.16 / 5.01	6.74 / 6.42	9.15 / 8.49	
EER/COP		Cooling/Heating	2.71 / 3.19	2.71 / 3.19	2.82 / 3.49	2.62 / 3.18	
Inrush current			A 5	5	5	5	
Max. current			24	15	20	21	
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	61 / 61	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		51 / 51	51 / 51	58 / 59	59 / 62
	Indoor*2	Cooling (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			81		83	
Ref.piping size		Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	
Refrigerant line (one way) length			m	Max.50			
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range		Cooling	°C	-15~43*3		-15~50*3	
		Heating		-20~20		-15~20	
Air filter, Q'ty			Plastic net x 1(washable)				
Remote control			wired:RC-E5 (installed) wireless:RCN-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	
	Indoor	Cooling (Hi/Me/Lo)		18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	
		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		HeightxWidthxDepth	mm	1,850 x 600 x 320			
Indoor				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* <sup>3</sup>			
		Heating		-15~20			
Air filter, Q'ty				Plastic net x1 (Washable)			
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

※2 Powerful-Hi can be selected.

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

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

# CONTROL SYSTEMS

## Remote Control line up

	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

**NEW**

##### Easy view

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

##### Operation mode setting screen



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



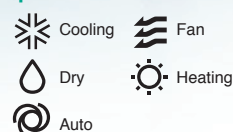
**Run / Stop**

##### 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
<b>Economy &amp; Timer</b>	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.
<b>Comfort</b>	Big LCD & Touch screen panel	Large 3.8 inch screen has resulted in improved visibility and operability.
	Easy modification of Individual flap control <b>NEW</b>	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.
<b>Convenience</b>	Function switch *1 <b>NEW</b>	The function switch allows user to select and set two functions among six available functions.
	Favorite setting *1 <b>NEW</b>	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	Adjusting Brightness of the operation lamp <b>NEW</b>	The brightness of the background light can be adjusted by 10 stages.
	LCD contrast setting <b>NEW</b>	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 <b>NEW</b>	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.
<b>Service</b>	USB connection (mini-B)	This function allows batch input of schedule timer settings and other settings involving a large amount of data.
	Error code display	This function allows user to check information displayed when abnormal function of the unit occurs.
	Operation data display	Displays various types of air conditioner operation data in real time.
	Contact company display	Address of the service contact is displayed.
	Filter sign	Announces the due time for cleaning of the air filter.
	Static pressure adjustment	Allows user to adjust duct static pressure using the remote control.
	Backup Control	Allows for rotation control, fault backup control, and capacity backup control.

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

## Wireless remote control (option)

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

**NEW**

RCN-T-5AW-E2



RCN-TC-24W-E2



RCN-KIT4-E2



RCN-E-E2



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

## Wired remote control (option)

RC-E5

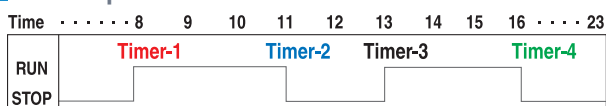


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

### Weekly timer function as standard

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

### Timer operation

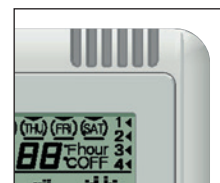


### Run hour meters to facilitate maintenance checking

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

### Room temperature controlled by the remote control sensor

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



### Changeable set temperature ranges

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

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

## Simple remote control (option)

RCH-E3 (wired)



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

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

### Up to 16 units

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

### AUTO restart

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

## Thermistor (option)

SC-THB-E3

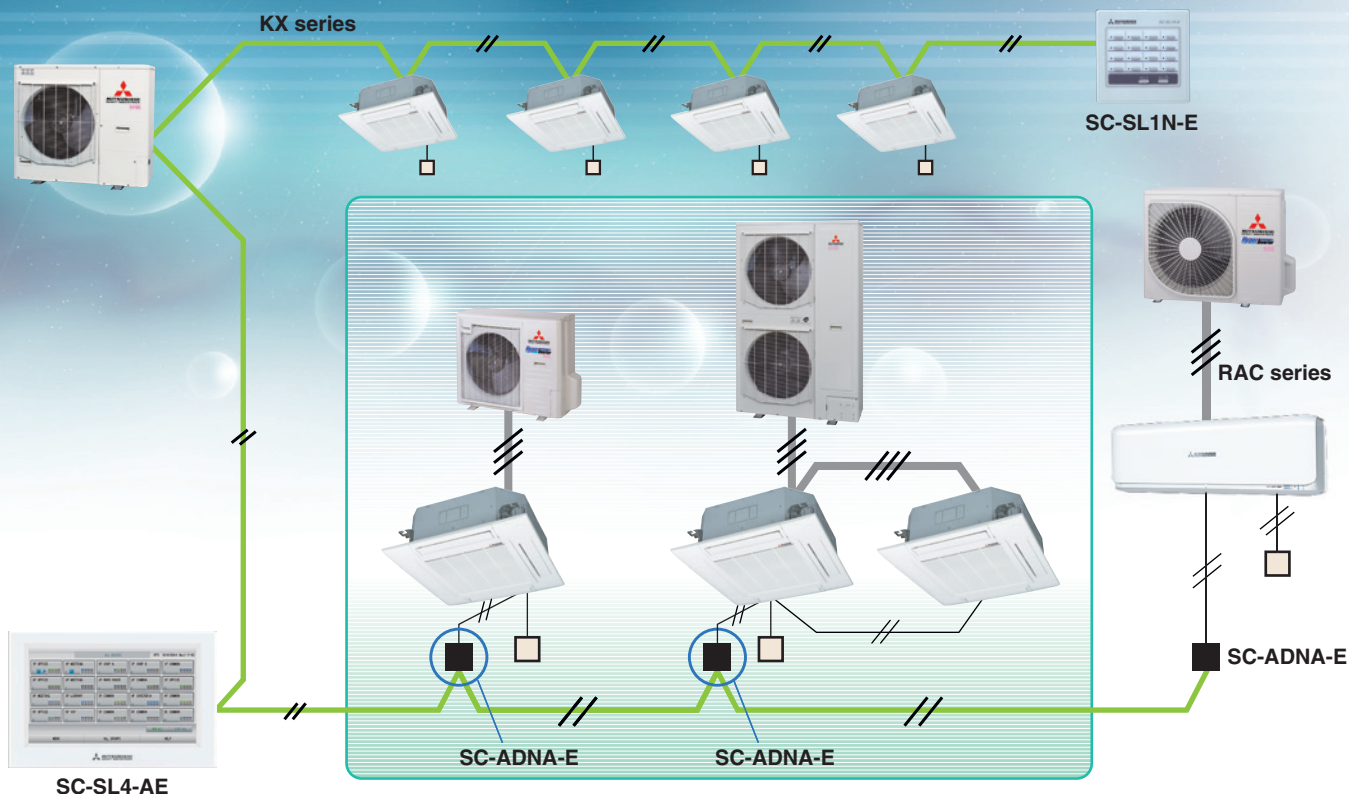
In case sensor in the indoor units or the remote control sensor can not sense the room temperature correctly, or individual remote control in each room is not required but only sensor is required (as when center control system is in place), install SC-THB-E3 at proper place in the rooms.





# CONTROL SYSTEMS

## SUPERLINK-II



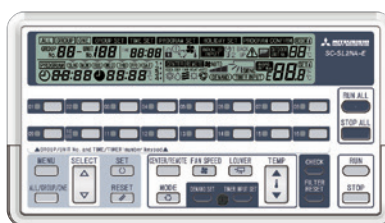
### Central Control

#### SC-SL1N-E



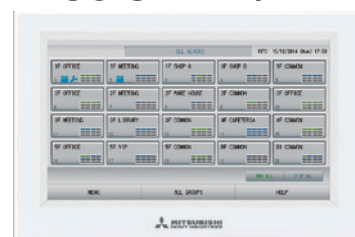
Start/stop control of up to 16 indoor units is possible either individually or collectively. With simple operations, you can effect centralized control.

#### SC-SL2NA-E



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

#### SC-SL4-AE/BE



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

### Building Management Systems

**NEW**

#### SC-WBGW256\* (Web gateway / BACnet gateway)

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

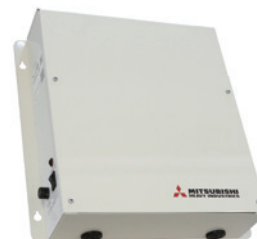


Production by order

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

**NEW**

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



Production by order

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

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

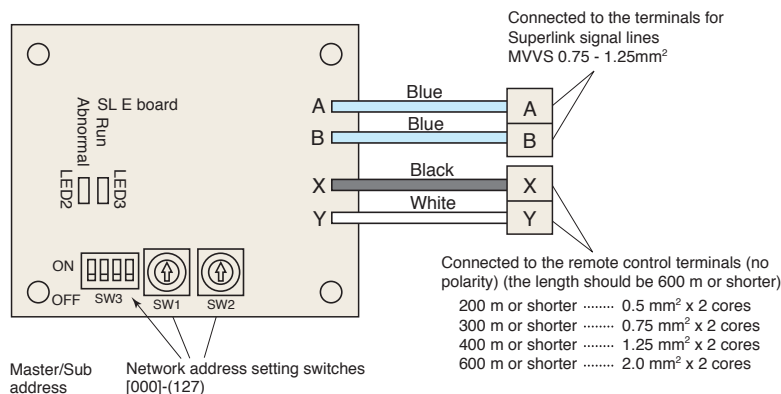
## SUPERLINK E BOARD (SC-ADNA-E)

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

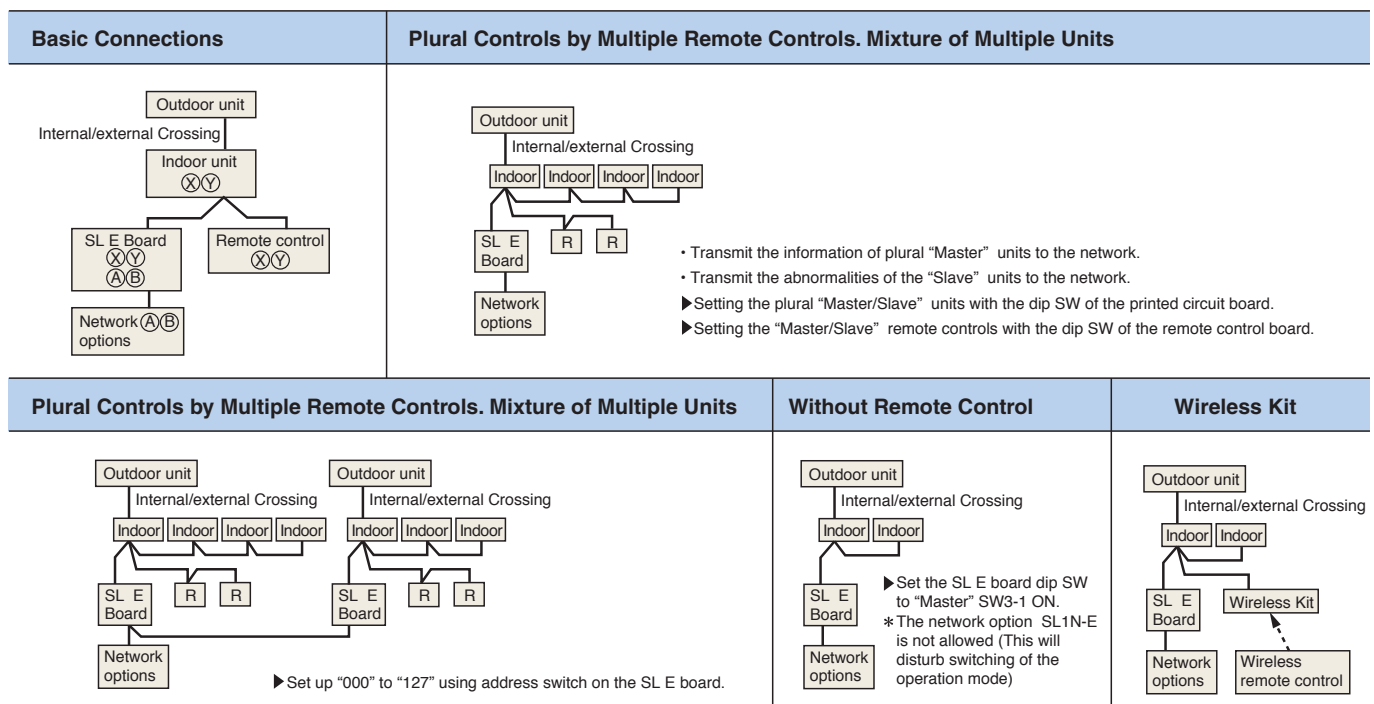
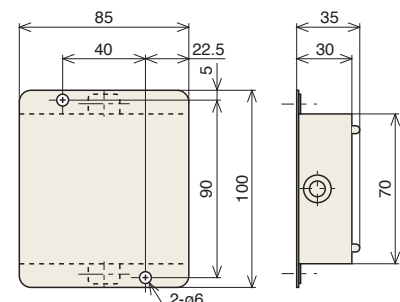
### (1) Functions

- 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.



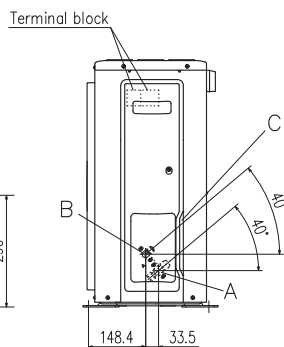
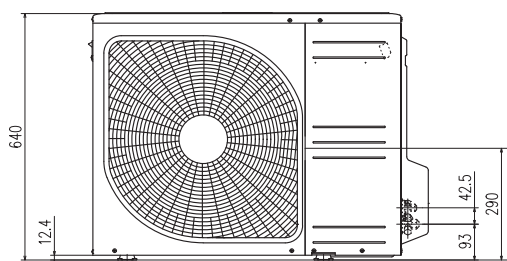
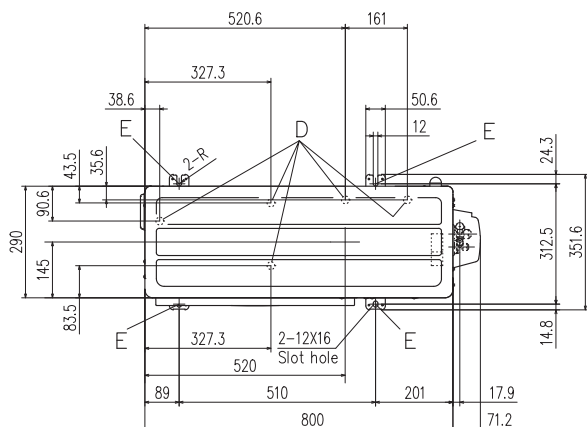
Remote surveillance system



Card key on-off

# OUTDOOR UNIT DIMENSIONS (unit:mm)

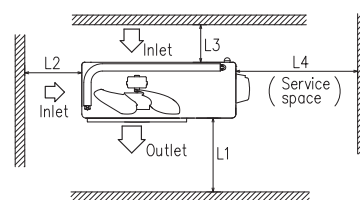
## SRC40ZSX-S, 50ZSX-S, 60ZSX-S



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 M10-12x4 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

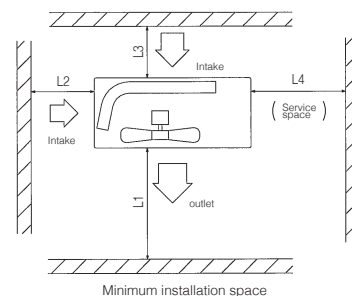
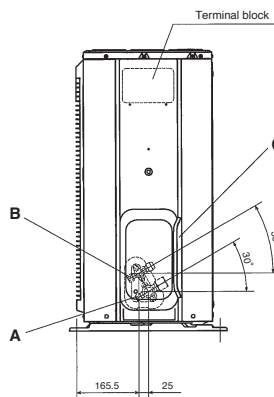
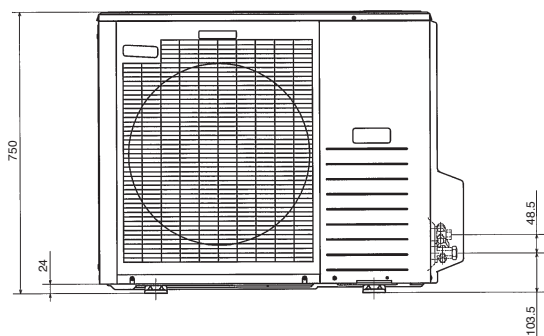
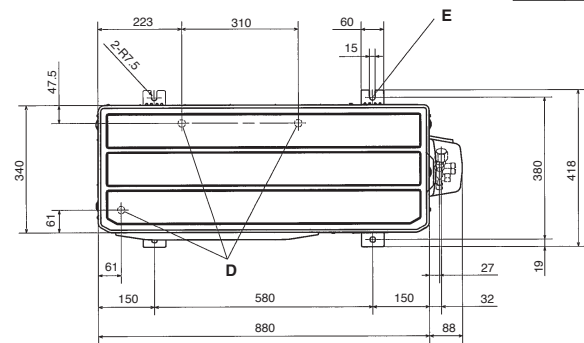
Examples of installation	I	II	III	IV
Size				
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

## FDC71VNX

Mark	Item
A	Service valve connection (gas side) $\phi 15.88$ (5/8") (Flare)
B	Service valve connection (liquid side) $\phi 9.52$ (3/8") (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 3$ places
E	Anchor bolt hole M10x4 places

### Notes:

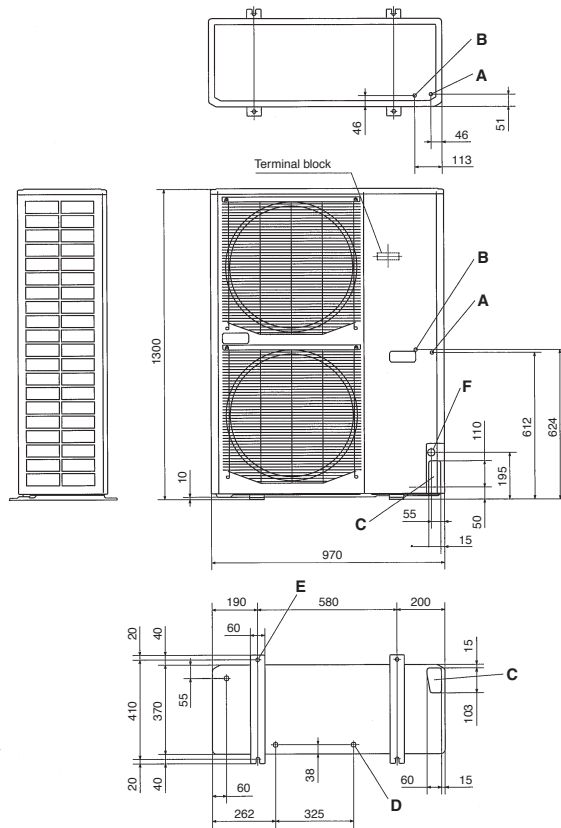
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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



Minimum installation space

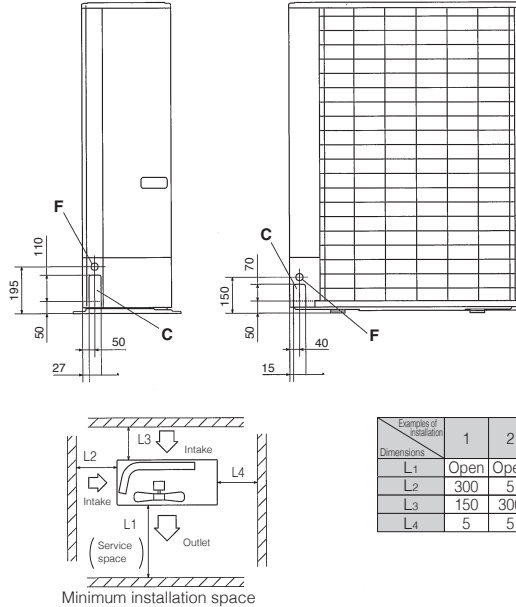
Examples of installation	1	2	3
Dimensions			
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

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



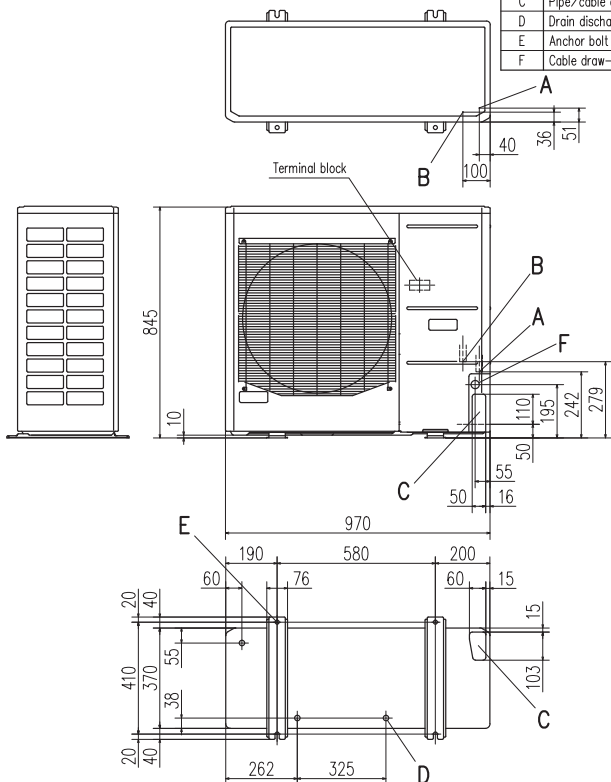
Mark	Item	
A	Service valve connection of the attached connecting pipe(gas side)	ø15.88(5/8") (Flare)
B	Service valve connection(liquid side)	ø9.52(3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x3places
E	Anchor bolt hole	M10x4places
F	Cable draw-out hole	ø30(front) ø45(side) ø50(back)

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



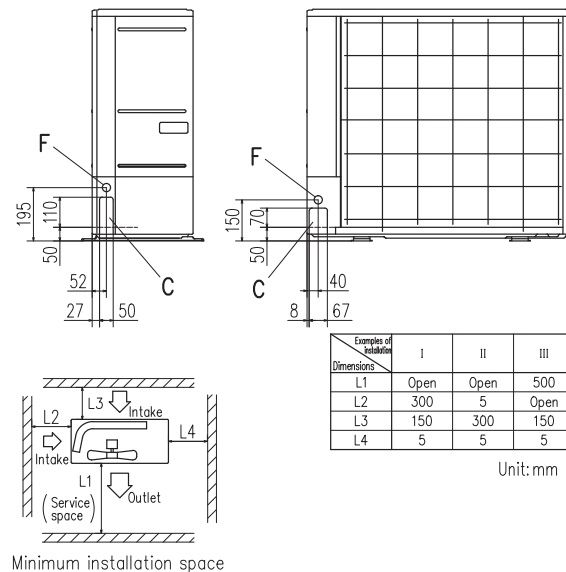
Examples of installation	1	2	3
Dimensions			
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

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



Symbol	Content	
A	Service valve connection (gas side)	ø15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	ø9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x3places
E	Anchor bolt hole	M10x4places
F	Cable draw-out hole	ø30x3places

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



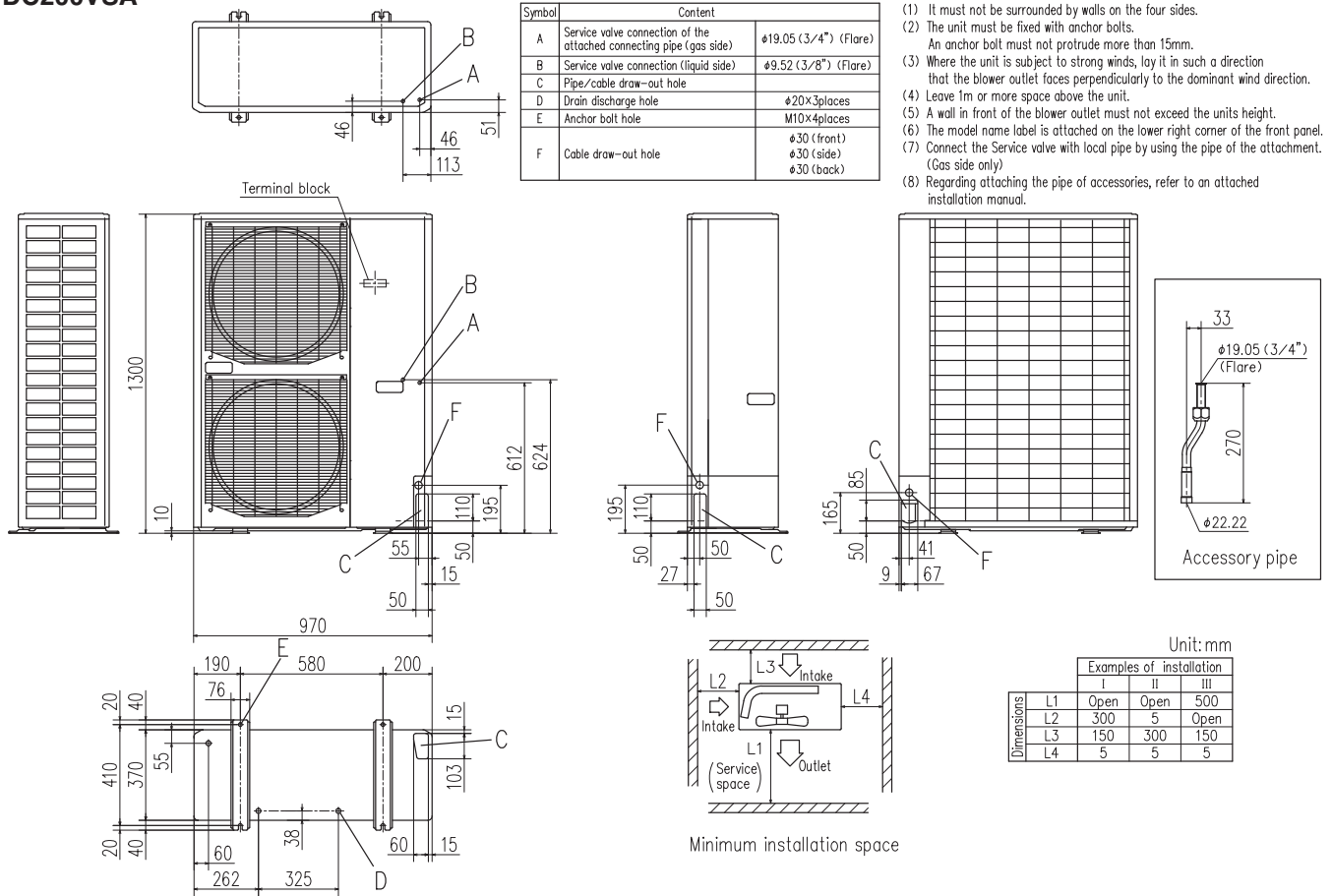
Examples of installation	I	II	III
Dimensions			
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

Unit:mm

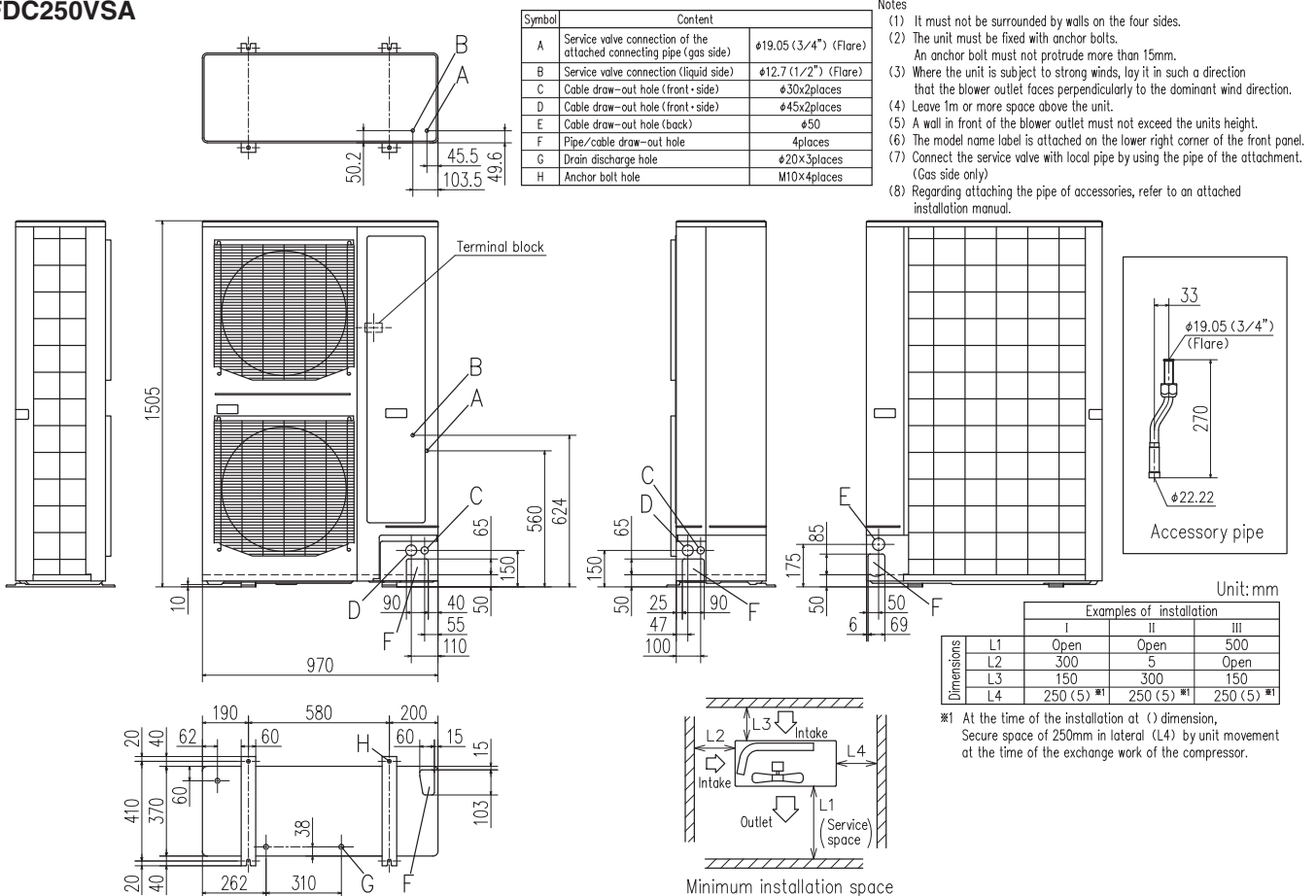


# OUTDOOR UNIT DIMENSIONS (unit:mm)

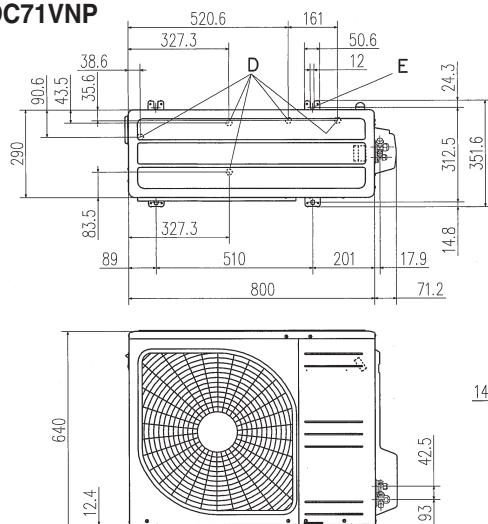
## FDC200VSA



## FDC250VSA



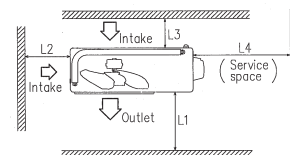
## FDC71VNP



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

### Notes

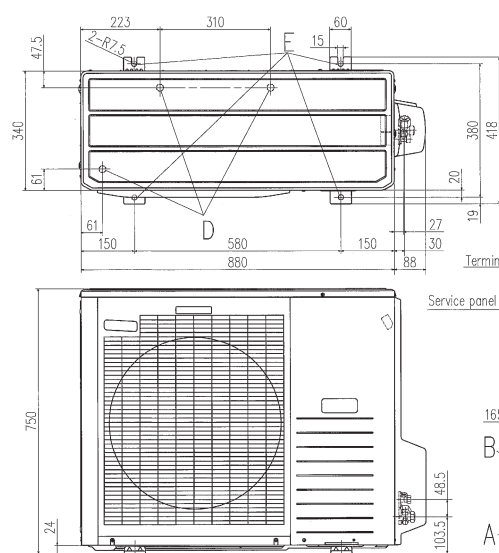
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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



Minimum installation space

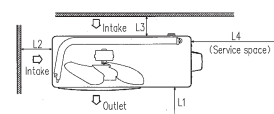
Examples of installation Dimensions	I	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

## FDC90VNP



### Note

- (1) It must not be surrounded by walls on four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 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.

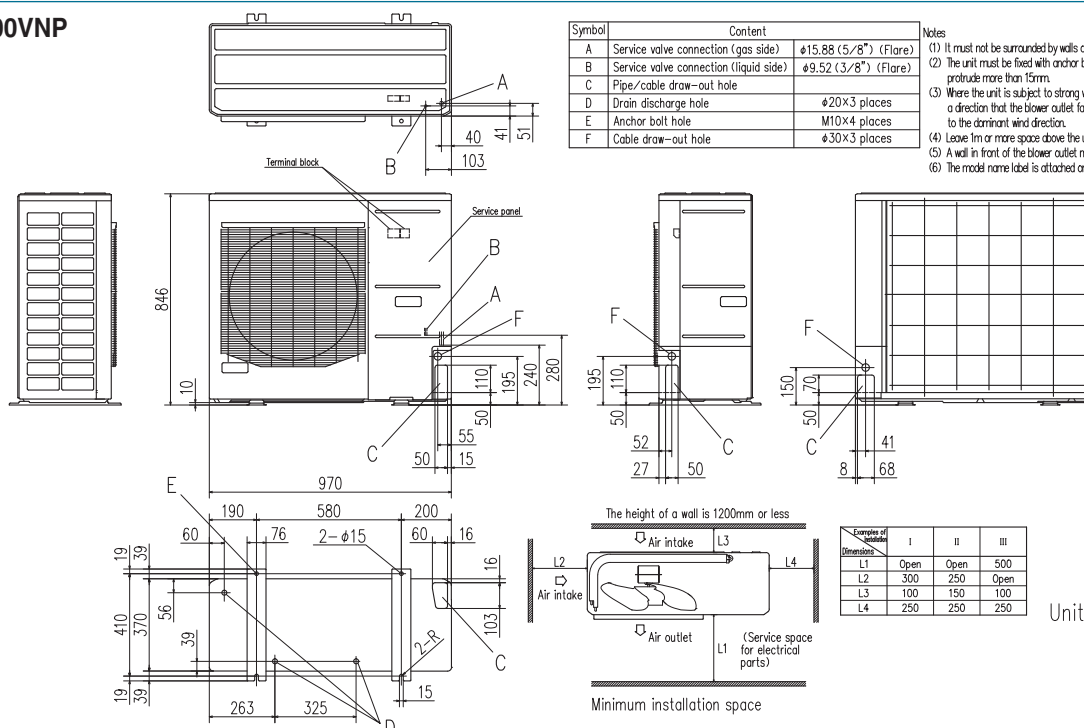


Minimum installation space

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) $\phi 9.52$ (3/8") (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 3$ places
E	Anchor bolt hole M10 $\times 4$ places

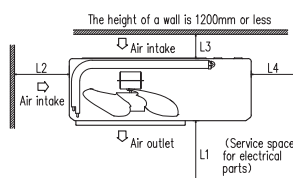
## FDC100VNP



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

### Notes

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



Minimum installation space

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

Unit: mm

# ENERGY LABEL [FOR EU/EEA AREA ONLY]

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

## ENERGY LABEL

SEER and SCOP is defined in European regulations listed below.

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

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

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

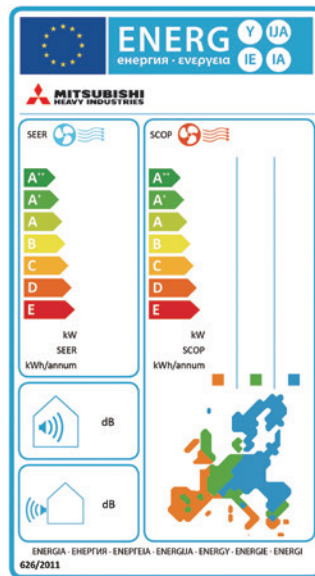
Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

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

SEER - Seasonal Efficiency Ratio (value in cooling)

SCOP - Seasonal Coefficient of Performance (value in heating)

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



## Employment of lead-free solder

Adapted to RoHS directive

### RoHS:Restriction of Hazardous substances

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

## Employment of R410A

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

## Excellent Energy Saving

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

Indoor unit		FDT40VG	FDT50VG	FDT60VG	FDT71VG	FDT100VG	FDT100VG	FDT40VGx2	FDT50VGx2	FDT50VGx2		
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX		
Energy class (cooling/heating)		A++/A+	A++/A++	A++/A++	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+		
SEER		8.28	7.76	8.26	5.72	5.90	5.90	5.77	5.92	5.92		
SCOP (Average climate)		4.45	4.61	5.00	4.34	4.32	4.32	4.34	4.16	4.16		
Pdesignc	kW	4.0	5.0	5.6	7.1	10.0	10.0	7.1	10.0	10.0		
Pdesignh (@-10°C)	kW	3.8	4.1	4.7	5.8	11.2	11.2	5.8	11.2	11.2		
Annual electricity consumption (cooling/heating)	kWh/a	170/1197	226/1246	238/1317	435/1870	594/3626	594/3626	431/1872	592/3774	592/3774		
Refrigerant (R410A)	GWP	2088										
	charge kg/TCO <sub>2</sub> e	1.5/3.132				2.95/6.160		4.5/9.396		2.95/6.160		4.5/9.396
Designated heating season		Average										

Indoor unit		FDT100VG	FDT100VG	FDT50VGx2	FDT50VGx2	FDT71VG	FDT100VG	FDT100VG	FDC40VF	FDC50VF
Outdoor unit		FDC100VN	FDC100VS	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZSX-S	SRC50ZSX-S
Energy class (cooling/heating)		A+/A+	A+/A+	A+/A+	A+/A+	A++/A+	A++/A+	A++/A+	A++/A	A+/A
SEER		5.61	5.61	5.90	5.90	6.14	6.78	6.78	6.53	6.01
SCOP (Average climate)		4.10	4.10	4.00	4.00	4.27	4.12	4.53	3.96	3.85
Pdesignc	kW	10.0	10.0	10.0	10.0	7.1	9.0	10.0	4.0	5.0
Pdesignh (@-10°C)	kW	7.9	7.9	7.9	7.9	5.7	8.1	8.1	4.0	4.8
Annual electricity consumption (cooling/heating)	kWh/a	625/2699	625/2699	593/2765	593/2765	405/1870	465/2756	517/2505	215/1416	291/1745
Refrigerant (R410A)	GWP	2088					1.6/3.341	2.1/4.385	2.55/5.324	1.5/3.132
	charge kg/TCO <sub>2</sub> e	3.8/7.934								
Designated heating season		Average								

Indoor unit		FDT60VF	FDT40VFx2	FDT50VFx2	FDT50VFx2	FDT50VFx2	FDT50VFx2	FDU71VF1	FDU100VF2	FDU100VF2
Outdoor unit		SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)		A+/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A+	A/A+
SEER		5.76	5.31	5.23	5.19	5.17	5.13	5.24	5.22	5.19
SCOP (Average climate)		3.80	3.88	3.87	3.86	3.84	3.84	3.90	4.10	4.10
Pdesignc	kW	5.6	7.1	10.0	10.0	10.0	10.0	7.1	10.0	10.0
Pdesignh (@-10°C)	kW	5.9	6.8	10.2	10.2	9.4	9.4	7.0	13.0	13.0
Annual electricity consumption (cooling/heating)	kWh/a	341/2172	468/2455	670/3692	674/3695	678/3424	682/3428	475/2513	670/4437	675/4441
Refrigerant (R410A)	GWP	2088								
	charge kg/TCO <sub>2</sub> e	1.5/3.132	2.95/6.160	4.5/9.396			3.8/7.934		2.95/6.160	4.5/9.396
Designated heating season		Average								

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

Indoor unit		FDU100VF2	FDU100VF2	FDU71VF1	FDU100VF2	FDU100VF2	FDM40VF	FDM50VF	FDM60VF	FDM71VF1
Outdoor unit		FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX
Energy class (cooling/heating)		B/A	B/A	A+/A+	A++/A+	A++/A+	A+/A+	A+/A+	A++/A+	A/A
SEER		5.06	5.03	5.71	6.86	6.36	6.01	5.68	6.42	5.24
SCOP (Average climate)		3.94	3.94	4.00	4.20	4.13	4.15	4.36	4.37	3.90
Pdesignc	kW	10.0	10.0	7.1	9.0	10.0	4.0	5.0	5.6	7.1
Pdesignh (@-10°C)	kW	9.3	9.3	5.7	8.1	8.1	3.5	4.3	5.4	7.0
Annual electricity consumption (cooling/heating)	kWh/a	692/3303	696/3307	436/1996	459/2703	551/2746	233/1182	309/1382	306/1731	475/2513
Refrigerant (R410A)	GWP	2088								
	charge kg/TCO <sub>2</sub> e	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324	1.5/3.132		2.95/6.160	
Designated heating season		Average								

Indoor unit		FDM100VF2	FDM100VF2	FDM40VFx2	FDM50VFx2	FDM50VFx2	FDM100VF2	FDM100VF2	FDM50VFx2	FDM50VFx2
Outdoor unit		FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC100VN	FDC100VS
Energy class (cooling/heating)		A/A+	A/A+	A+/A+	A/A	A/A	B/A	B/A	B/A	B/A
SEER		5.22	5.19	5.61	5.14	5.11	5.06	5.03	4.81	4.78
SCOP (Average climate)		4.10	4.10	4.05	3.88	3.87	3.94	3.94	3.82	3.81
Pdesignc	kW	10.0	10.0	7.1	10.0	10.0	10.0	10.0	10.0	10.0
Pdesignh (@-10°C)	kW	13.0	13.0	7.0	10.0	10.0	9.3	9.3	9.3	9.3
Annual electricity consumption (cooling/heating)	kWh/a	670/4437	675/4441	444/2422	681/3611	685/3614	692/3303	696/3307	728/3413	732/3416
Refrigerant (R410A)	GWP	2088								
	charge kg/CO <sub>2</sub> e	4.5/9.396		2.95/6.160	4.5/9.396		3.8/7.934			
Designated heating season		Average								

Indoor unit		FUDM71VF1	FUDM100VF2	FUDM100VF2	SRK100ZR-S	SRK50ZSX-Sx2	SRK50ZSX-Sx2	SRK50ZSX-Sx2	SRK50ZSX-Sx2
Outdoor unit		FDC71VNP	FDC90VNP	FDC100VNP	FDC100VNP	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS
Energy class (cooling/heating)		A+/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A+/A+	A+/A+
SEER		5.71	6.86	6.36	6.60	6.11	6.11	5.61	5.61
SCOP (Average climate)		4.00	4.20	4.13	4.40	4.16	4.16	4.00	4.00
Pdesignc	kW	7.1	9.0	10.0	10.0	10.0	10.0	10.0	10.0
Pdesignh (@-10°C)	kW	5.7	8.1	8.1	7.2	10.4	10.4	7.7	7.7
Annual electricity consumption (cooling/heating)	kWh/a	436/1996	459/2703	551/2746	531/2289	574/3504	574/3504	624/2697	624/2697
Refrigerant (R410A)	GWP	2088							
	charge kg/TCO <sub>2</sub> e	1.6/3.341	2.1/4.385	2.55/5.324	2.55/5.324	4.5/9.396		3.8/7.934	
Designated heating season		Average							

Indoor unit		FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG	FDE100VG	FDE40VGx2	FDE50VGx2	FDE50VGx2
Outdoor unit		SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)		A++/A	A++/A	A++/A+	B/A+	A+/A+	A+/A+	A/A+	A/A	A/A
SEER		6.46	6.10	6.72	4.87	5.89	5.84	5.26	5.53	5.49
SCOP (Average climate)		3.93	3.92	4.08	4.00	4.18	4.17	4.09	3.94	3.94
Pdesignc	kW	4.0	5.0	5.6	7.1	10.0	10.0	7.1	10.0	10.0
Pdesignh (@-10°C)	kW	3.0	3.8	4.3	6.0	11.2	11.2	6.0	10.8	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 (GWP)		2088								
		1.5/3.132			2.95/6.160	4.5/9.396		2.95/6.160	4.5/9.396	
Designated heating season		Average								

Indoor unit		FDE100VG	FDE100VG	FDE50VGx2	FDE50VGx2	FDE71VG	FDE100VG	FDE100VG	FDF71VD1	FDF100VD2
Outdoor unit		FDC100VN	FDC100VS	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	FDC71VNX	FDC100VNX
Energy class (cooling/heating)		A/A	A/A	A/A	A/A	A++/A+	A++/A+	A++/A+	B/A	A/A
SEER		5.43	5.39	5.16	5.13	6.35	6.63	6.73	4.80	5.20
SCOP (Average climate)		3.91	3.90	3.81	3.80	4.22	4.25	4.44	3.81	3.80
Pdesignc	kW	10.0	10.0	10.0	10.0	7.1	9.0	10.0	7.1	10.0
Pdesignh (@-10°C)	kW	7.9	7.9	7.8	7.8	5.8	8.2	8.1	6.7	13.0
Annual electricity consumption (cooling/heating)	kWh/a	645/2830	649/2833	679/2868	683/2872	392/1925	475/2704	521/2556	518/2464	673/4792
Refrigerant (R410A)	GWP	2088								
	charge kg/TCO <sub>2</sub> e	3.8/7.934				1.6/3.341	2.1/4.385	2.55/5.324	2.95/6.160	4.5/9.396
Designated heating season		Average								

Indoor unit		FDF100VD2	FDF100VD2	FDF100VD2	FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit		FDC100VSX	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP
Energy class (cooling/heating)		A/A	B/A	B/A	A/A	A+/A+	A/A
SEER		5.17	5.02	4.99	5.24	5.69	5.41
SCOP (Average climate)		3.80	3.80	3.80	3.91	4.01	3.94
Pdesignc	kW	10.0	10.0	10.0	7.1	9.0	10.0
Pdesignh (@-10°C)	kW	13.0	9.3	9.3	5.5	8.1	8.1
Annual electricity consumption (cooling/heating)	kWh/a	678/4795	697/3423	701/3427	475/1972	555/2826	647/2875
Refrigerant (R410A)	GWP	2088					
	charge kgTCO <sub>2</sub> e	4.5/9.396	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season		Average					



## Before starting use

### Heating performance

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

### Indication of sound values

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

### Use in oil atmosphere

Avoid installing this unit in an atmosphere where oil scatters or builds up, such as in a kitchen or machine factory.

If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

### Use in acidic or alkaline atmosphere

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

### Use in places with high ceilings

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

### Refrigerant leakage

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

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

### Use in snowy areas

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

#### •Snow prevention

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

#### •Snow piling

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

### Automatic defrosting device

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

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

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

### Servicing the air-conditioner

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

## ⚠ Safety Precautions

### Air-conditioner usage target

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

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

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

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

### Before use

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

### Installation

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

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

### Usage place

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

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



**MITSUBISHI HEAVY INDUSTRIES  
THERMAL SYSTEMS, LTD.**

(Wholly-owned subsidiary of MITSUBISHI HEAVY INDUSTRIES, LTD.)

16-5, Konan 2-chome, Minato-ku, Tokyo, 108-8215 Japan  
<http://www.mhi-mth.co.jp/en/>

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**Certified ISO 9001**



Certificate Number : JQA-0709



Certificate: 24106 1999 0813



Certificate Number : 5170-1996-AQ-RCG-R/A

**Certified ISO 14001**



ISO 14001



Certificate: 24106 1999 0813 03



Certificate number : 01-1998-083

