

# Inverter Packaged Air-Conditioners

## **FD**series

High Performance Air-Conditioning

## 2019



**New FDT**  
4 way



**New FDTc**  
4 way compact









# Inverter Packaged Air-Conditioners

## **FD** High Performance Air-Conditioning *series*

The PAC range from Mitsubishi Heavy Industries Thermal systems is ideal for air conditioning offices, shops, restaurants, and bars ... as well as other commercial environments. The versatility of the PAC range, offers you a wide selection of models in function of your installation needs. The modern and attractive design of our indoor units is harmoniously integrated in the any atmosphere creating a pleasant and relaxing environment.



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# Next Generation Refrigerant R32

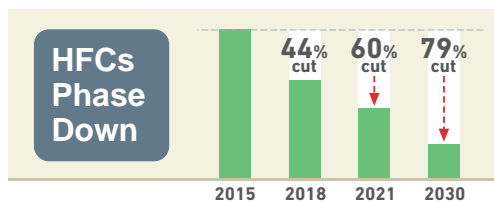
New Indoor Unit, Outdoor Unit line up available for R32



## F-GAS REGULATION (EU) No 517/2014

Introduced in January 2015 to regulate the use of Fluorinated Greenhouse Gases (F-Gases)

The Hydrofluorocarbons (HFCs) are F-Gases used in the HVACR sector (Heating, Ventilation, Air-Conditioning and Refrigeration)



### OBJECTIVE

To protect the environment by reducing the F-Gases emissions

### IMPACT ON HFCs(in EU)

HFCs Phase Down  
HFCs Ban

### SOLUTIONS

- Use lower GWP\* refrigerants in new equipment
- Use high-efficiency equipment with less refrigerant charge
- Check refrigerant leaks regularly

\* GWP is the Global Warming Potential of a refrigerant, representing how much heat an F-Gas traps in the atmosphere

### HFCs Ban

2020

**GWP ≥ 150**  
Portable room air-conditioner

**GWP ≥ 2500**  
Stationary refrigeration<sup>\*1</sup> (except < -50°C)

**GWP ≥ 2500**  
Commercial hermetically sealed refrigerators, freezers

2022

**GWP ≥ 150**  
Commercial multipack centralised refrigeration

**GWP ≥ 150**  
Commercial hermetically sealed refrigerators, freezers

2025

**GWP ≥ 750**  
Single Split Fixed Air-Conditioning < 3kg HFC

<sup>\*1</sup> Stationary refrigeration equipment, that contains, or whose functioning relies upon, HFCs with GWP of 2500 or more except equipment intended for application designed to cool products to temperatures below -50°C application

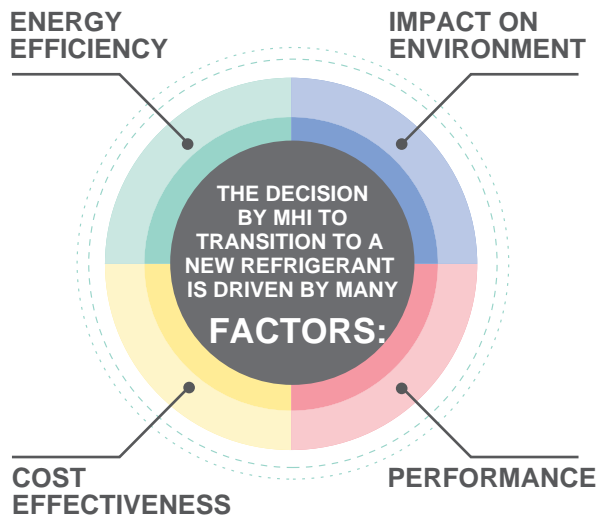


LOWER GWP + LESS REFRIGERANT CHARGE = LOWER HFCs EMISSIONS



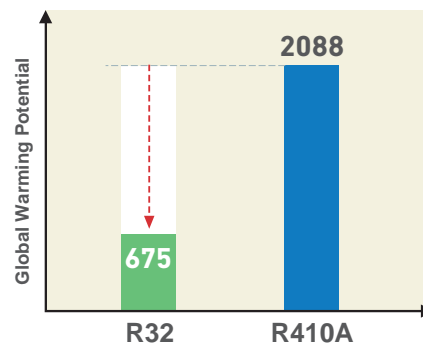
## R32 - A Low GWP Refrigerant

- A single component, easy to handle refrigerant
- Known as a component of the blend R410A(50% R32, 50% R125)
- Already used in Air-Conditioning systems worldwide
- Zero Ozone Depletion
- Superior Energy Efficiency vs. R410A
- Reduced refrigerant charge vs. R410A
- Easy to recycle

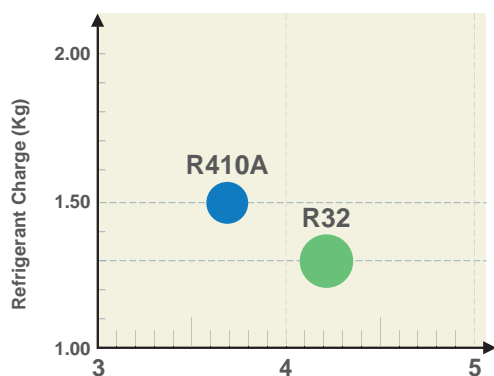


### Low Global Warming Potential

1/3 GWP VS. R410A



### Superior Energy Efficiency

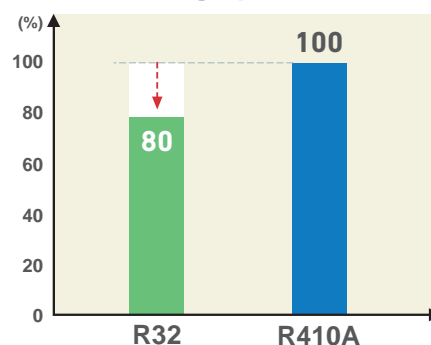


Energy Efficiency Ratio Based on 6.0 kW Ceiling cassette 4way unit



### Reduced Refrigerant Charge

Saving up to 20%





# New Generation

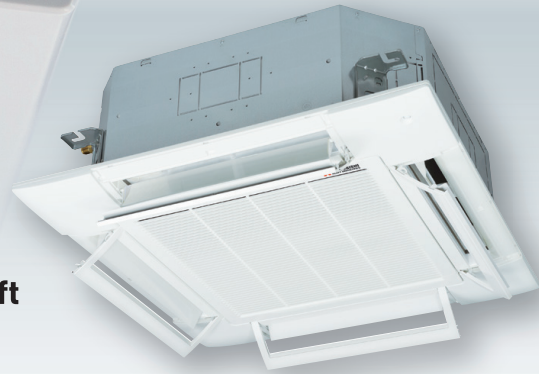
Ceiling Cassette  
4way

New

## FDT



- Automatic energy saving control
- Keep maximum comfort with minimal draft
- Quiet operation

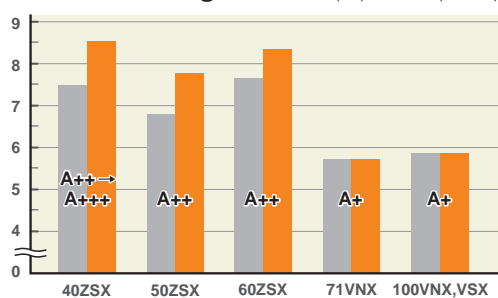


## High energy efficiency with new technology

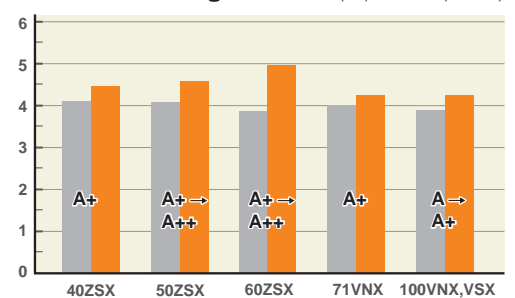
New FDT can achieve higher seasonal efficiency by Mitsubishi Heavy Industries latest technology.

● SEER and SCOP is defined in European regulations. Please refer to P77.

SEER in cooling



SCOP in heating

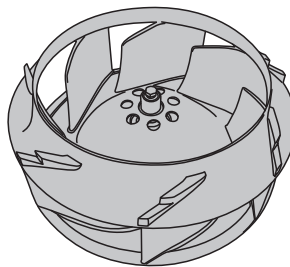


## Quieter noise & Improved aerodynamic performance of the unit

New technology has realised quiet noise with keeping capacity and comfort. A low noise is achieved by reducing the pressure fluctuation in an indoor unit.

A fan guard attains both safety and quietness by flow.

New design turbo fan



Fan guard (standard equipment)



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



Draft Prevention Panel (Option)

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



Motion Sensor (Option)

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



Ceiling Cassette  
4way compact

New

# FDTC



- More comfort and More energy saving
- New European design
- Lower noise



## European Design & Flat Panel

### Thin Panel

FDTC thin panel fit within 10mm from the ceiling.

### Unique Grille Design

Honeycomb grille

### Big Louver

Improved distribution

### Compact Design

□700mm → □620mm

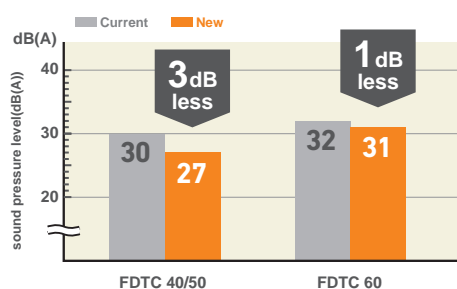
A weight of only 14kg.  
Height of thin panel and main body is only 248mm  
allowing it to be a very easy installation.

### Integrated Ceiling System Design(600×600)



## Quieter Operation

(Sound Pressure level in the Lo mode)



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

## Draft Prevention Panel and Motion Sensor (option)



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

# Draft Prevention Panel

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



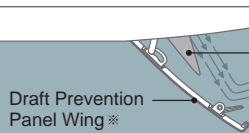
Ceiling cassette Compact  
**FDTC-VH** series



Ceiling cassette  
**FDT-VH** series



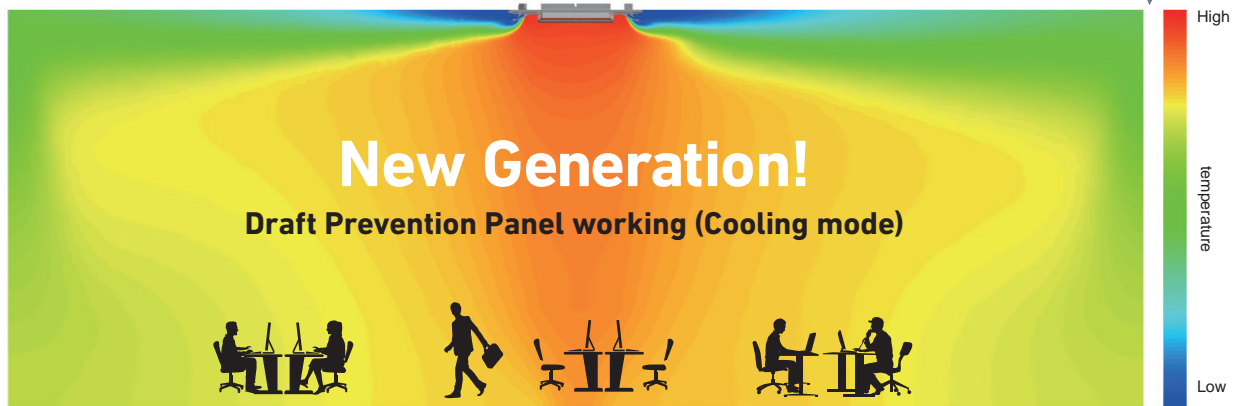
The Good Design Award is Japan's only comprehensive design evaluation and recommendation initiative, originating with the "Good Design Products Selection System" founded in 1957. It is now a global design award with participation from numerous Japanese and international companies and organizations. The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



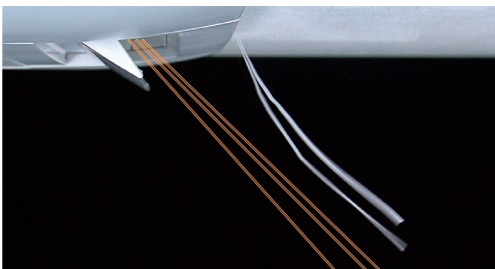
Flap

Draft Prevention  
Panel Wing※

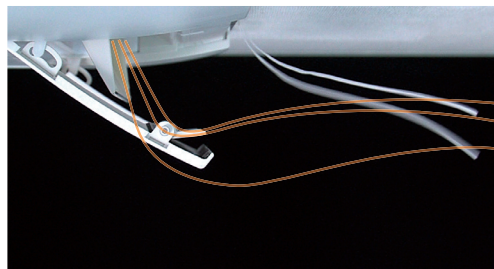
Draft Prevention Panel Operating Image



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.

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



# Motion Sensor

## Energy saving control by detecting human movement

### 3 Step Control

1	<b>Power Control</b>	New motion sensor (option) detects human activity. Energy saving control is achieved by shift set temperature according to detected amount of activity.
2	<b>Stand by</b>	Unit will go on stand-by mode when no activity is detected. When unit will detect activity again, unit will re-start operation automatically.
3	<b>Auto Off</b>	Unit will go off automatically when no activity is detected for 12 hours.

Applied models

FDT /

FDTC / FDU / FDUM / FDE

New

Low human activity (in cooling)



High human activity (in cooling)



Absence for 1 hour



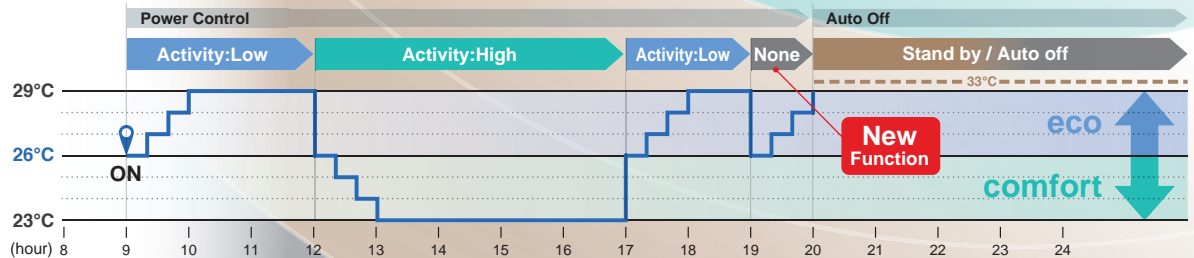
More 12 hours absence



in cooling

Set temperature

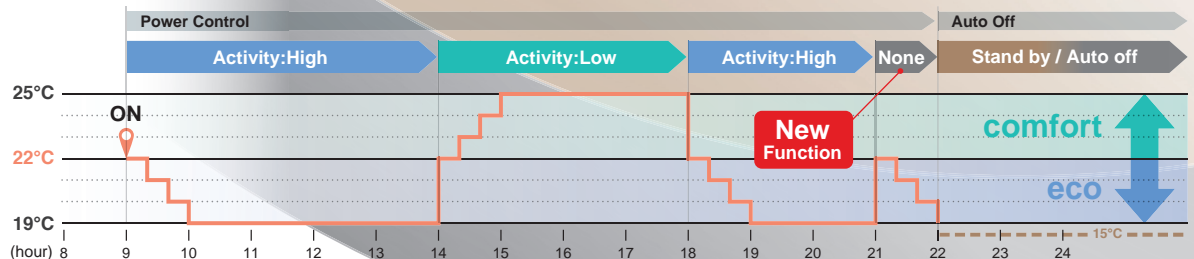
26°C



in heating

Set temperature

22°C




### Operation mode and Control of Motion sensor

eco operation

comfort operation

Operation mode

Power Control ※1	<div>Human activity</div> <div></div>	Low	Cooling +3°C	+3°C	+3°C	—	—
			Heating +3°C	+3°C	+3°C	—	—
		High	Cooling -3°C	-3°C	-3°C	—	—
			Heating -3°C	-3°C	-3°C	—	—
		None	Cooling +3°C	+3°C	-3°C	—	—
			Heating -3°C	+3°C	-3°C	—	—
Auto Off ※2			●	●	●	●	●

※1 Set temperature is revised maximum  $\pm 3^{\circ}\text{C}$  at Cooling/Heating mode by detecting heat volume movement.

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

# Remote Control

Added new function

Simple use with  
advanced settings  
REMOTE CONTROL

Easy touch and Easy view with  
full dot Liquid Crystal display

# RC-EX3A



## Function Switch

The function switch allows you to select and set two functions that you desire among the seven 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. Anti Draft ON/OFF



New

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

### 2. High Power Mode



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

### 5. Home Leave Mode



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

### 3. Energy Saving Mode



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

### 6. Favourite Mode



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

### 4. 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.

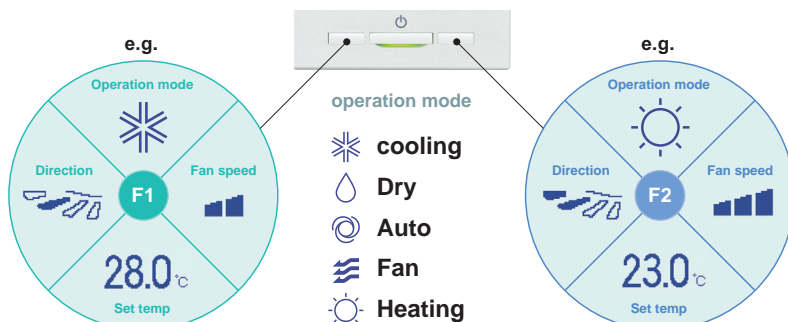
### 7. Filter Sign



Announces the due time for cleaning the air filter.

## Favourite 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.



## Adjustable Brightness of the Operation Lamp

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

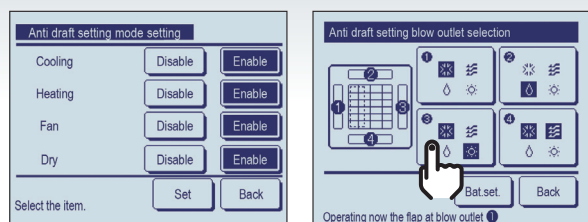




## Draft Prevention Setting New

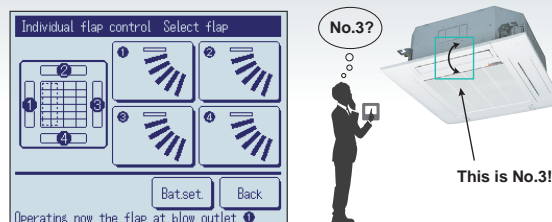
(only FDT•FDTC series)

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



## Easy Modification of Air Flow

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



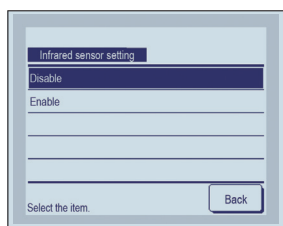
## Motion Sensor Control

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



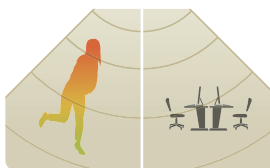
Enable/Disable



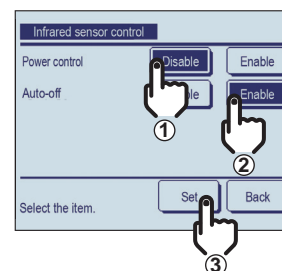
Select Enable / Disable for the motion sensor of the indoor unit connected to the R/C.

### 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable/Disable

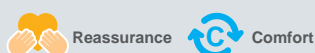


## Backup Control

Control restricted to two indoor units (two groups)

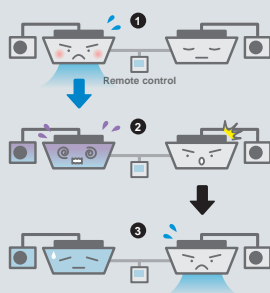


### Fault backup control



#### 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.

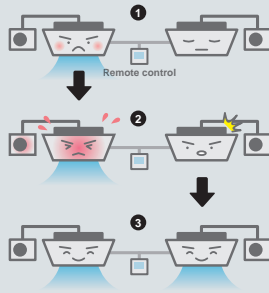


### Capacity backup control



#### Maintains users' comfort!

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

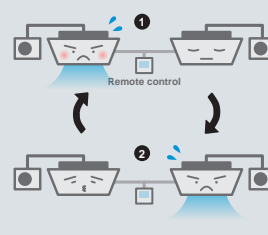


### New Rotational operation control



#### 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 1 to 999 hours in increments of 1 hours.)



## REMOTE CONTROL

### 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

Set temp. shift  
Forced thermo-off  
IU operation stop  
Silent mode

Newly added

#### External Output

CNT (New)

2 Output - Operation  
- Heating  
- Compressor ON (thermo-ON)

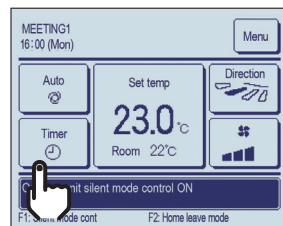
3 Output - Inspection

Cooling (defrosting)  
Fan operation  
Fan operation with Phi or Hi  
Fan operation with Me or Lo  
Defrosting (oil return in heating operation)  
Ventilation  
Heater ON  
Free cooling  
IU overload alarm

Newly added

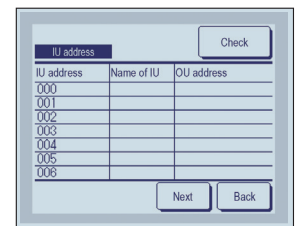
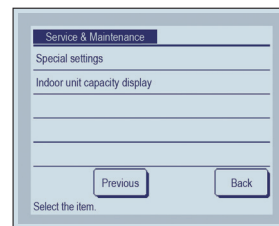
### Silent Mode Control

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.



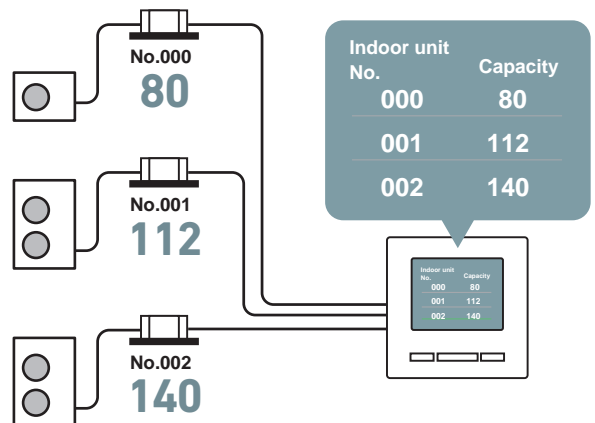
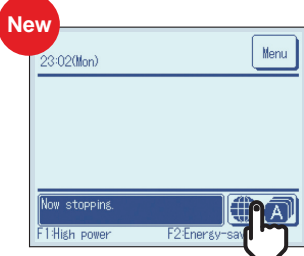
### Indoor Unit Capacity Display

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



### Language Switching

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

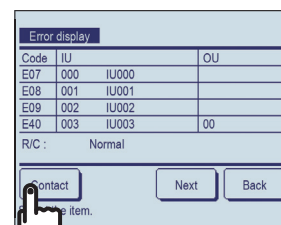
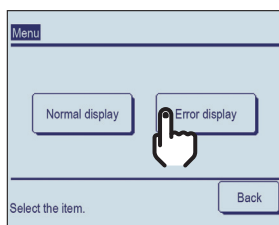
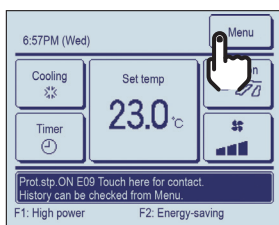


### Contact company & Error display

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



"Error"





# Case Study : Commercial

Specific cases of FD series installation from  
Mitsubishi Heavy Industries Thermal Systems

## MHI aircon system recovers waste energy at Bristol Airport

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
























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

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



# Product line up

## SINGLE SPLITS

<div> <div>FD series</div> <div>Type</div> </div>				<div> <div>HyperInverter</div>  </div>					
		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	<div> <div>New</div> <div>FDT</div> <div>4way</div> <div>P24</div>  </div>		1 Phase						
			3 Phase						
			1 Phase						
			3 Phase						
	<div> <div>New</div> <div>FDTC</div> <div>4way compact</div> <div>P36</div>  </div>		1 Phase						
			3 Phase						
			1 Phase						
			3 Phase						
Duct Connected	<div> <div>FDU</div> <div>High Static pressure</div> <div>P42</div>  </div>		1 Phase						
			3 Phase						
			1 Phase						
			3 Phase						
	<div> <div>New</div> <div>FDUM</div> <div>Low/Middle Static pressure</div> <div>P48</div>  </div>		1 Phase						
			3 Phase						
			1 Phase						
			3 Phase						
Wall Mounted	<div> <div>SRK</div> <div>P58</div>  </div>		1 Phase						
			3 Phase						
			1 Phase						
			3 Phase						
Ceiling Suspended	<div> <div>New</div> <div>FDE</div> <div>P62</div>  </div>		1 Phase						
			3 Phase						
			1 Phase						
			3 Phase						
Floor Standing	<div> <div>FDF</div> <div>P72</div>  </div>		1 Phase						
			3 Phase						







Combat Global Warming  
Please refer to Page 4

Product line up

Capacity Range (Nominal Cooling Capacity)

Capacity Range (Nominal Cooling Capacity)									
		Micro Inverter 					Standard Inverter 		
5.0	6.0	4.0	5.0	6.0	8.0	10.0	3.0	3.5	4.0
12.5	14.0	10.0	12.5	14.0	20.0	24.0	7.1	9.0	10.0
42,700	47,800	34,100	42,700	47,800	68,200	81,300	24,200	30,700	34,100
10,750	12,040	8,600	10,750	12,040	17,200	20,640	6,100	7,740	8,600
●	●	●	●	●			●	●	●
●	●	●	●	●					
●	●	●	●	●			●	●	●
●	●	●	●	●	●	●			
●	●	●	●	●			●	●	●
●	●	●	●	●					
		●							●
		●							
●	●	●	●	●			●	●	●
●	●	●	●	●					
●	●	●	●	●			●	●	●
●	●	●	●	●					

# Outdoor units

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

Line up

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

## Hyper Inverter

New



SRC40ZSX-W1 (1.5HP)  
SRC50ZSX-W1 (2.0HP)  
SRC60ZSX-W1 (2.5HP)



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



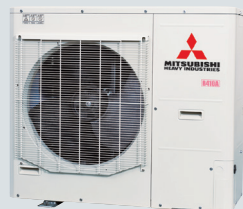
FDC71VNX (3.0HP)



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



## Micro Inverter



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



FDC200VSA (8.0HP)



FDC250VSA (10.0HP)



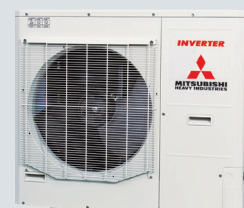
## Standard Inverter



FDC71VNP (3.0HP)



FDC90VNP1 (3.5HP)



FDC100VNP (4.0HP)

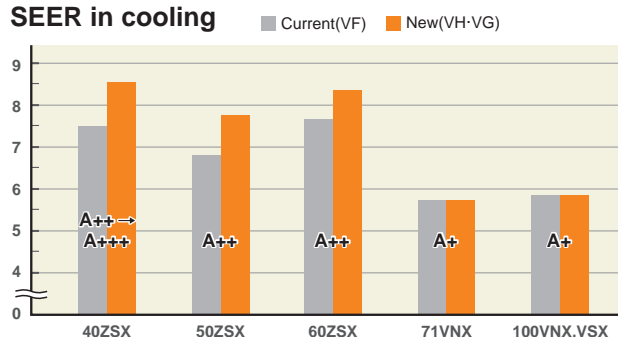




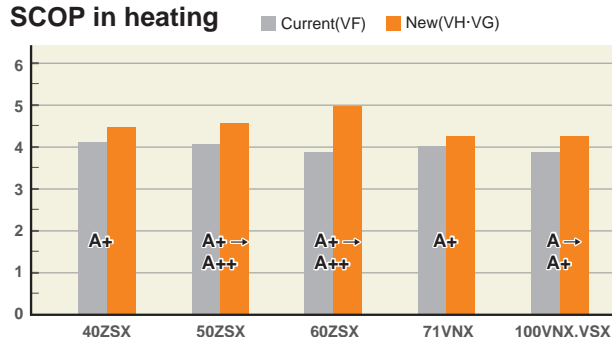
## High Efficiency

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

### SEER in cooling



### SCOP in heating



## Our Latest Technologies

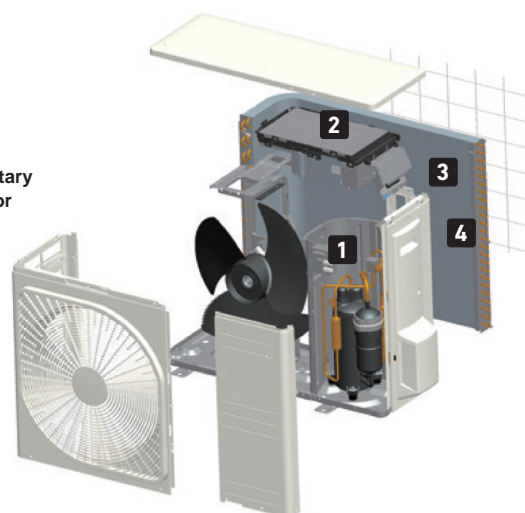
All outdoor units

### 1 High efficiency performance on the DC twin rotary compressors

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.



DC twin rotary compressor

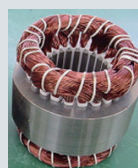


### 2 Vector inverter control

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

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

Better partial load efficiency



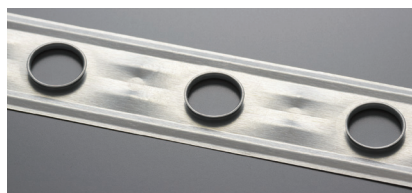
Distributed winding motor



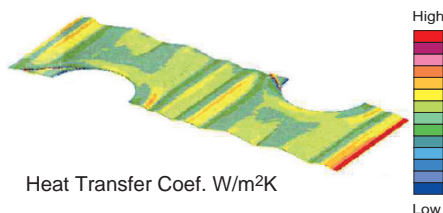
Centralized winding motor

### 3 Heat exchanger

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

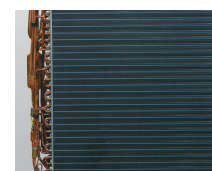


sectional structure



### 4 Blue fin

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



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

# Outdoor units

## Leading Powerful Heating Capacity in the Industry

Hyper Inverter

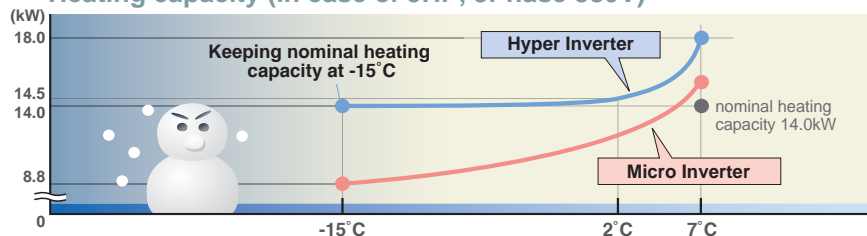
Thanks to optimization of refrigeration control with use of electric expansion valve and development of twin rotary compressors, max heating capacity has been increased.

Hyper Inverter series can reach the set temperature very quickly, keeping nominal heating capacity when outdoor temperature is -15°C.

It is effective to be used even in cold area.

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

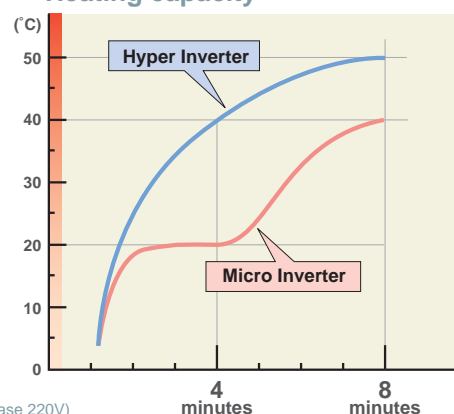
### Heating capacity (in case of 5HP, 3Phase 380V)



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

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

### Heating capacity

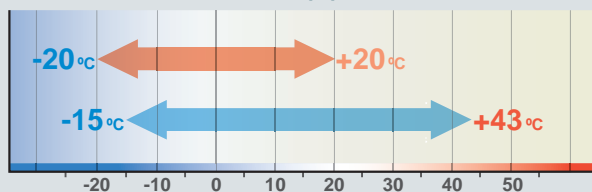


## Wide Range of Operation

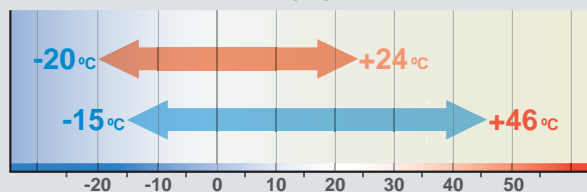
Our new advanced technology has expanded the heating and cooling operation range. This permits installation of the units under a low outdoor temperature conditions down to -15°C/-20°C in heating operation and -15°C in cooling operation.

Heating Cooling

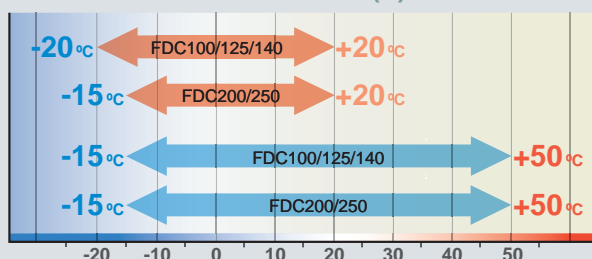
### FDC 71/100/125/140 VN(S)X



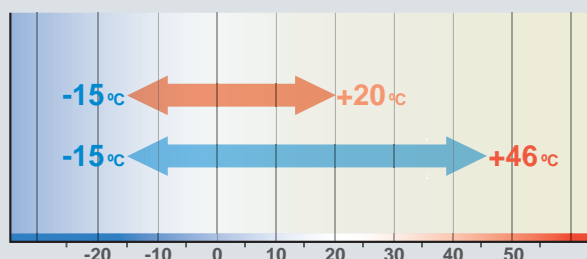
### SRC 40/50/60 ZSX-W1(-S)



### FDC 100/125/140/200/250 VN(S)A



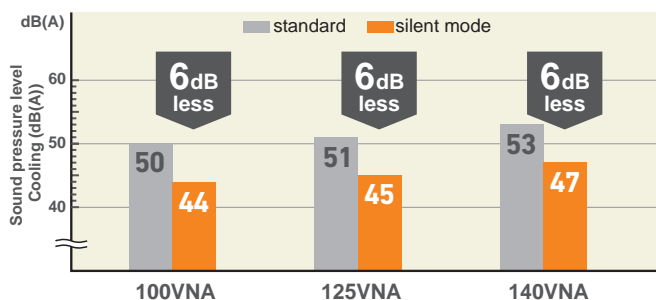
### FDC 71/90/100 VNP



## Silent Mode Operation

All outdoor units

More quiet "silent mode" is possible.



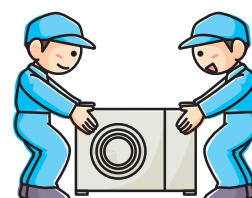
## Easy Transportation & Installation

Compact design of outdoor units.

Fits into elevators



Eazy installation





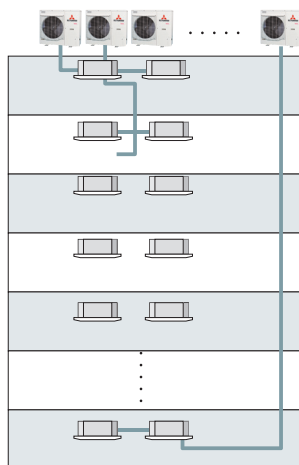
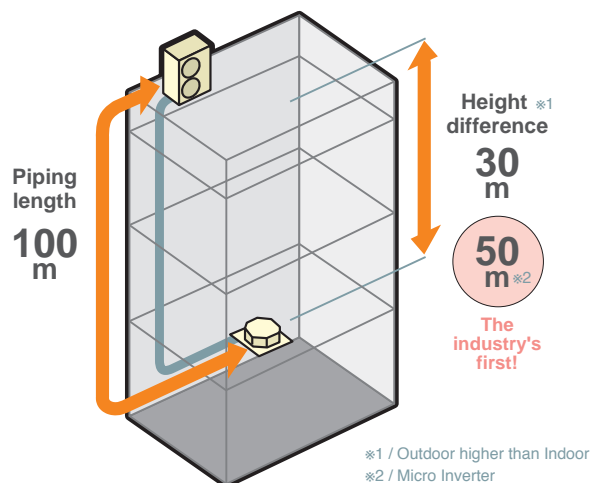
## Installation Workability

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

### Long piping

(in case of Hyper 4~6HP)

### Wider variation of installation!



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	50m*
8 & 10	70m	30m

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

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

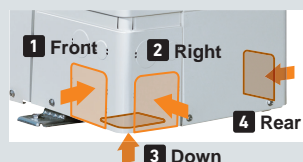
### Refrigerant precharged piping length extending to 30m

Refrigerant precharged piping length extends up to 30m. This eliminates the need to add refrigerant on site, which sets it free from trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly. \* Hyper inverter 1.5~2.5HP and Standard Inverter are up to 15m.

## Serviceability

Micro Inverter (10HP)

### Improved freedom of piping layout



### Wire insertion holes for fall prevention



### 2 Layer Construction

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



### A transparent rain cover

Attached as a standard for easy maintenance.



### Fixing screws to service panel

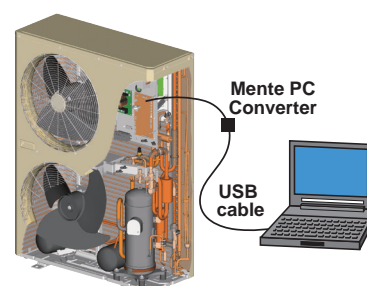
Decreasing number of screws from 5 to 2, installation & service speed is improved.



## Monitoring Function

All outdoor units

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



### 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	FDC200/250VSA
FDC100~140VNX,VSX	FDC100VNP
FDC100~140VNA,VSA	

# Outdoor units

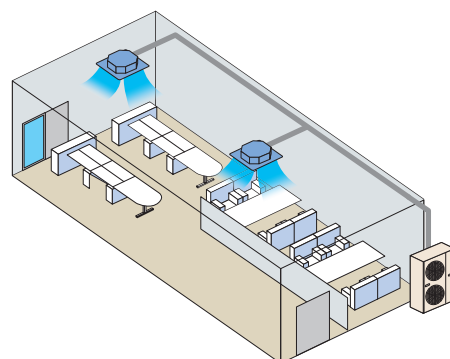
## MULTI SYSTEM

# Twin / Triple / Double Twin Multi System








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

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



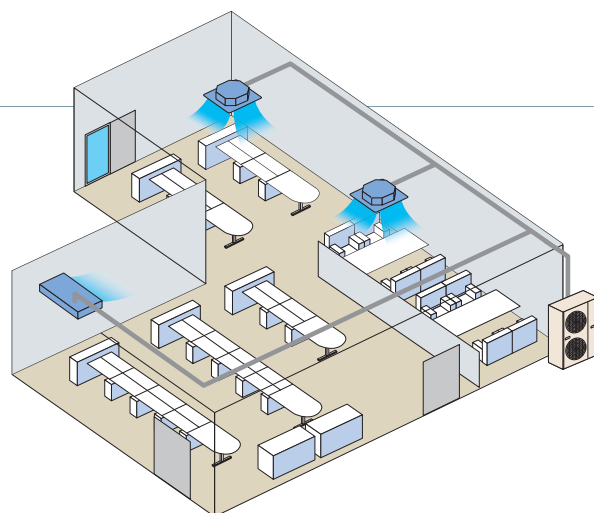
## Combination of indoor units

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






# V Multi System



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



## Combination of indoor units

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



## Applicable indoor units

Model		Capacity					
		40	50	60	71	100	125
Twin / Triple Double Twin Multi System	New FDT	●	●	●	●	●	●
	New FDT C	●	●	●			
	New FDUM	●	●	●	●	●	●
	SRK		●*	●*		●	

\* Hyper inverter combination only

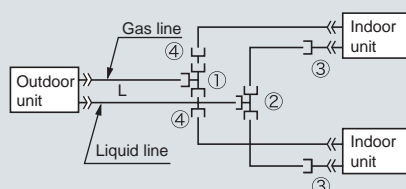
Model		Capacity					
		40	50	60	71	100	125
Twin / Triple Double Twin Multi System	New FDE	●	●	●	●	●	●
	FDF				●	●	●
V Multi System	New FDT	●	●	●	●	●	●
	New FDE	●	●	●	●	●	●

## Decision of piping specification

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

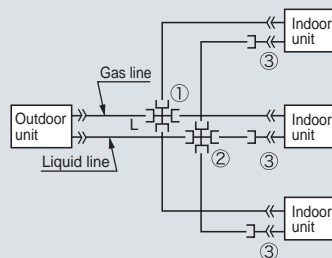
## Twin type

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



## Triple type

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



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

## Chart of shapes of branch piping parts

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

Symbol ① to ④ in the drawing shows the symbols of branch piping parts in the chart respectively.

Branch piping should always be arranged to have level or perpendicular position.

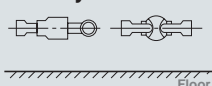
## Notes

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

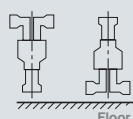
ID stands for inner diameter and OD, outer diameter.

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

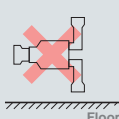
## 2-Way Branch



Mount — sections  
 level with the floor.

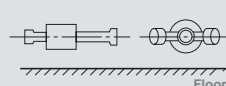


Mount — sections  
 perpendicular to the floor.

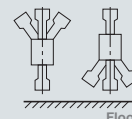


Floor

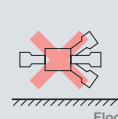
## 3-Way Branch



Floor

























Floor








Floor





























# Indoor units

## BENEFITS SUMMARY

		FDT	FDTc	FDU	FDUM	SRK	FDE	FDF
								
<b>Cost</b> 	 <b>Inverter Technology</b> Inverter control technology functions at high efficiency with smooth operation from high speed to low speed. A smooth sine voltage wave is attained.	●	●	●	●	●	●	●
	 <b>Energy-Saving</b> ※ Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.	●	●	●	●	●	●	
	 <b>Home Leave Operation</b> This function ensures that when the room is unoccupied for long periods of time, the unit will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures.	●	●	●	●	●	●	
	 <b>Set Temperature Auto Return</b> ※ This function allows you to program a preferred set temperature that the unit will return to each time it is operated.	●	●	●	●	●	●	
<b>Comfort</b> 	 <b>Automatic Operation</b> This function automatically selects the required heating or cooling function based on the current room conditions.	●	●	●	●	●	●	●
	 <b>Silent Operation</b> This function allows you to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.	●	●	●	●	●	●	●
	 <b>Motion Sensor</b> ※ This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.	● Option	● Option	● Option	● Option		● Option	
	 <b>Hi Power Operation</b> Use the high power function to quickly reach your optimum temperature level when you first turn on the unit. This function will operate for a maximum of 15 minutes before returning to normal operation.	●	●	●	●	●	●	
<b>Air Flow</b> 	 <b>Flap Control System</b> This function allows you to set the upper and lower limit positions of the flap at each air outlet individually, providing you with complete control over interior air flow.	●	●			●	●	
	 <b>Vertical Auto Swing</b> The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to your preferred operation angle.	●	●			●	●	●
	 <b>Draft Prevention Setting</b> ※ Draft Prevention setting provides a comfortable air flow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.	● Option	● Option					
	 <b>Automatic Fan Speed</b> The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.	●	●	●	●	●	●	

When using RC-EX3A (Remote control), functions with symbol     are available.

However, for RC-E5 (Remote control), functions with  are not available.

		FDT	FDTC	FDU	FDUM	SRK	FDE	FDF							
		 P24	 P36	 P42	 P48	 P58	 P62	 P72							
		 P24	 P36	 P42	 P48	 P58	 P62	 P72							
<b>Timer</b> 	 <b>Sleep Timer</b> This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate for before switching off.	●	●	●	●	●	●	●							
	 <b>Peak-Cut Timer</b> ※ This function lets you to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.	●	●	●	●	●	●	●							
	 <b>Weekly Timer</b> Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	●	●	●	●	●	●	●							
<b>Convenient</b> 	 <b>Function Switch</b> ※ From the seven available functions on the unit, this function allows you to set two functions to operate automatically.	●	●	●	●	●	●	●							
	 <b>Favourite Setting</b> ※ Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.	●	●	●	●	●	●	●							
	 <b>Select the Language</b> ※ Set the language to be displayed on the remote control.	●	●	●	●	●	●	●							
	 <b>Air Filter</b> The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air function.	●	●	Procure locally	●	●	●	●							
	 <b>Filter Sign</b> This warning alerts you to when the filter needs to be cleaned.	●	●	●	●	●	●	●							
	 <b>Outside Air Intake</b> This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.	●	●	●	●										
<b>Others</b>	 <b>Self Diagnostics</b> The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables your authorised dealer to isolate and repair any issues.	●	●	●	●	●	●	●							
	 <b>Built in Drain Pump</b> The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.	●	●	●	●										
	 <b>Improved Serviceability</b> The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.			●	●										

\*1 : Except 200 • 250



# FDT

Indoor Unit

## Ceiling Cassette -4way-



New

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



GOOD  
DESIGN

Draft Prevention Panel (Option)



### Remote control (option)

#### Wired



RC-EX3A



RC-E5



RCH-E3

#### Wireless



RCN-T-5AW-E2

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

## Draft Prevention Panel (Option)

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



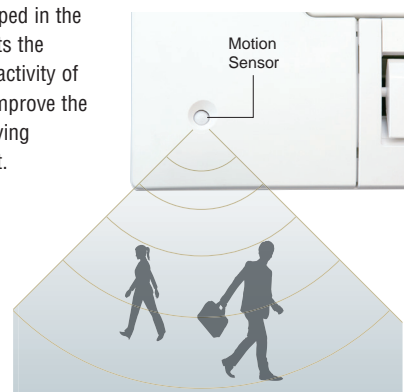
User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, RCN-T-5AW-E2).

## Motion Sensor (Option)

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

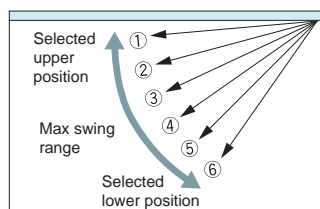


LB-T-5W-E



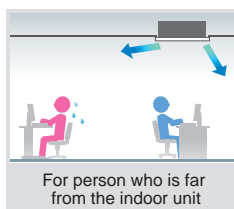
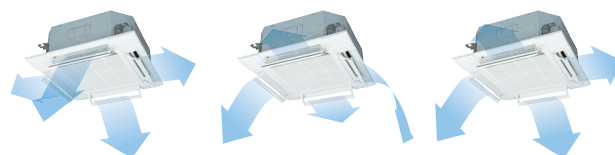
## Individual Flap Control System

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.

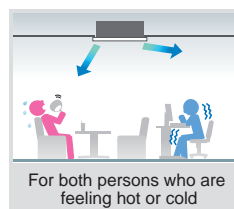


Flap can swing within an upper and lower flap range position within can be selected with a wired remote control.

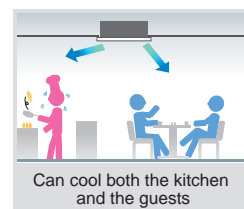
※The wireless remote control is not applicable to the Individual flap control system.



For person who is far from the indoor unit



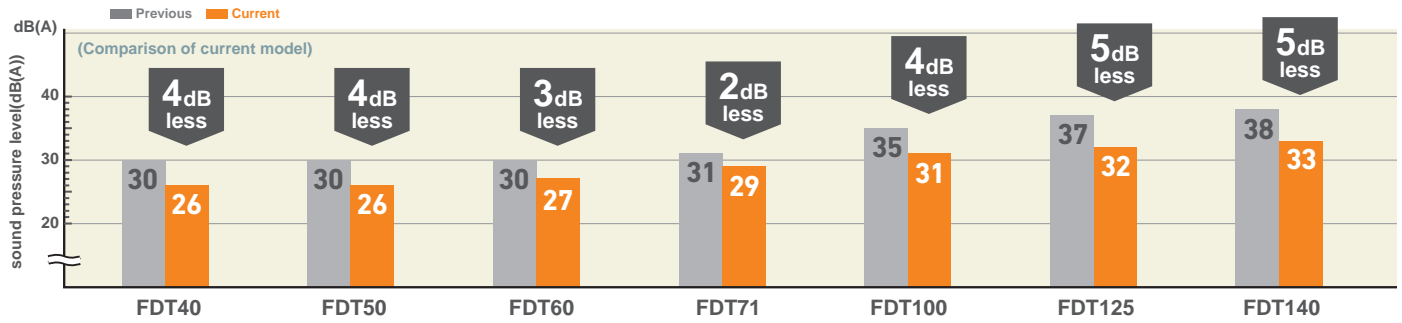
For both persons who are feeling hot or cold



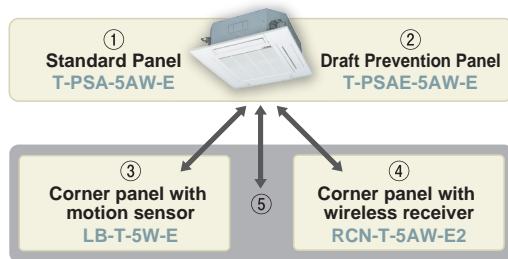
Can cool both the kitchen and the guests

## Quieter Noise

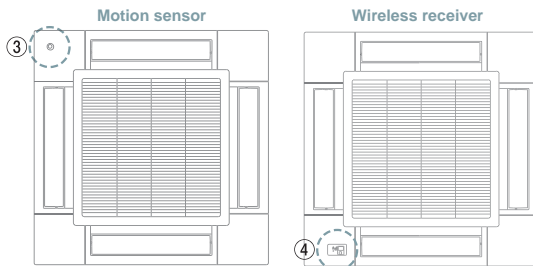
New technology has realised quiet noise (in cooling) with keeping capacity and comfort.



## Panel Select Pattern (Option)



Installation position of Wireless kit and Motion sensor kit



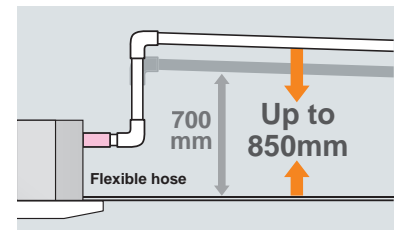
\*Wireless receiver and Motion sensor can be installed to the position as shown

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

## 850mm Drain Pump

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



## OUTDOOR UNIT

	Hyper Inverter		Hyper Inverter	
SRC • FDC	40~60ZSX-W1	40~60ZSX-S	71VNX	100~140VN(S)X
model				
Chargeless	15m	15m	30m	
Height x Width x Depth (mm)	640 x 800(+71) x 290	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

	Micro Inverter			Standard Inverter		
FDC	100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model						
Chargeless	30m			15m		
Height x Width x Depth (mm)	845 x 970 x 370	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

Easy and quick installation and maintenance

# Serviceability & Workability

Quick positioning !

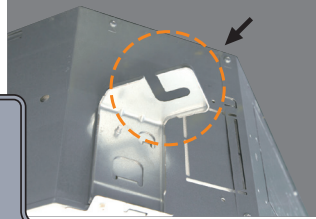
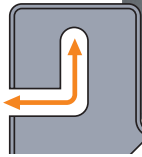
## Indoor unit is easily positioned and installed

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

FDT

New shape of slit is suitable to install the unit with more flexibility, according to many kinds of suspending bolt pitch on site. Any rectangular or squared pitch of suspending bolts are available with this slit.

Compatible with both square or rectangular bolt pitch

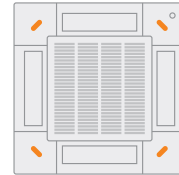
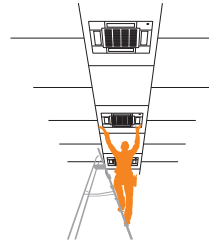


### 2 New slit in panel allows easier installation on site.

FDT

FDTC

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



4 long slits are available.

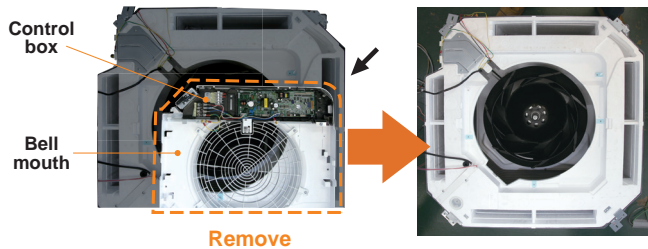
## Quick installation and maintenance

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

FDT

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

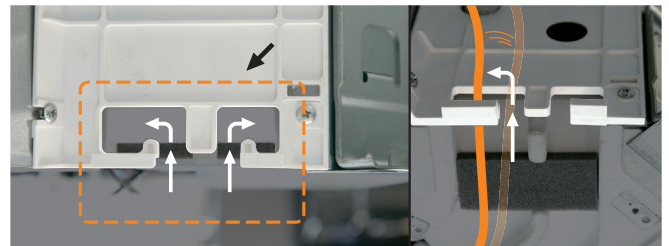
2. Easy access to impeller and fan motor.



### 2 New shape of path of wiring.

FDT

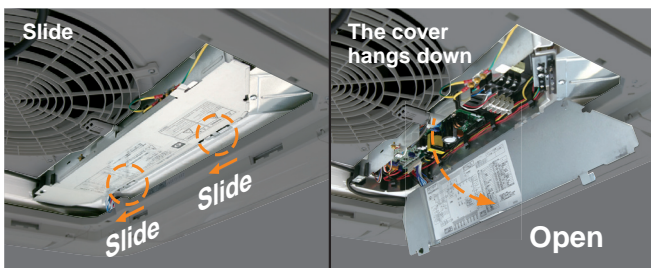
New shape of path gives easy wiring work for installation.



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

FDT

It is possible to loose and slide open the cover without remove of the screws. This prevents the cover from falling and damaging to stuffs on site.

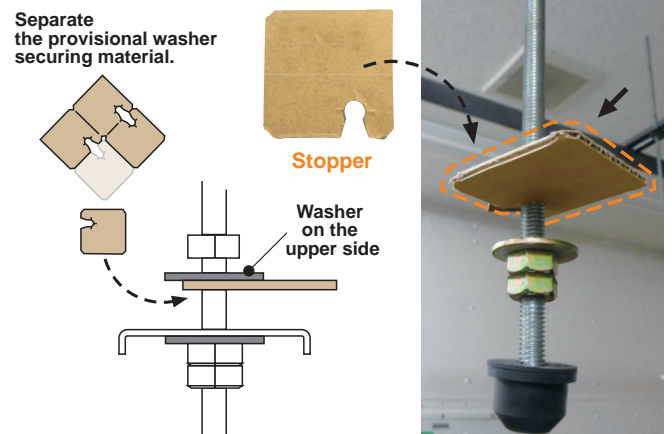


### 4 Safer installation by stopper of washer

FDT

FDTC

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



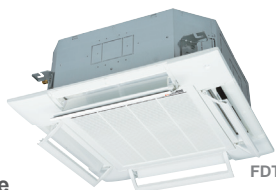




Builder



Maintenance



FDT



FDTC

For smooth and easy working

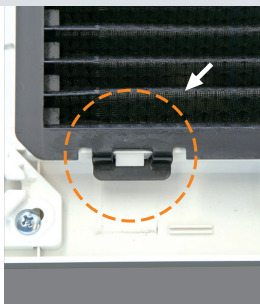
## Good help for installation and maintenance

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

FDT  
FDTC

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

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

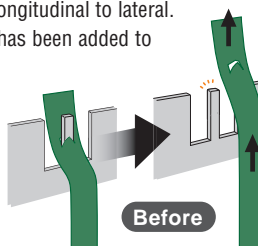


Soft material

### 2 Securely fix the corner lid by strap

FDT

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



After

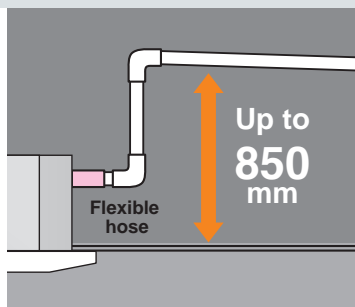
Easy to hook but not easy to loose

### 3 Drain-up-lift increases up to 850 mm

FDT  
FDTC

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

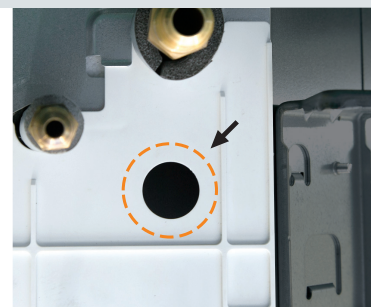
	Previous	New
FDT	700	850
FDTC	600	850



### 4 New port to check drain water flow

FDT

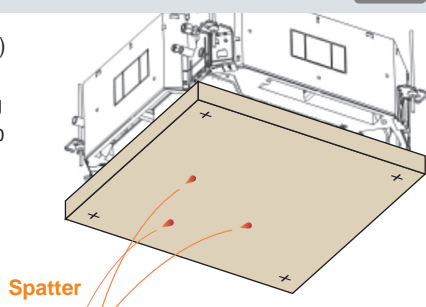
A water supply port has been provided in the piping lid for easier testing of the drain water flow. (The port is usually sealed with a rubber cap.)



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

FDT  
FDTC

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

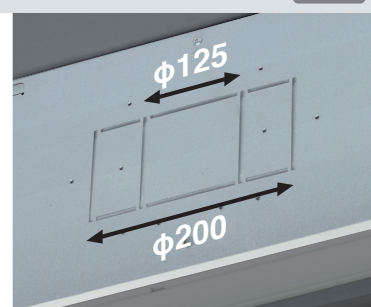
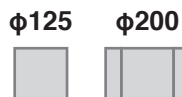


Spatter

### 6 More flexible outlet for ducting

FDT  
FDTC

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



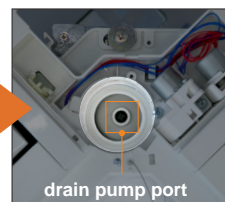
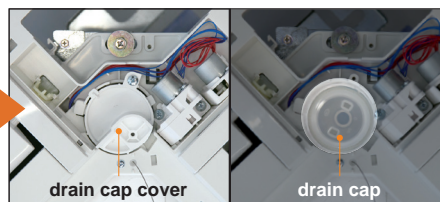
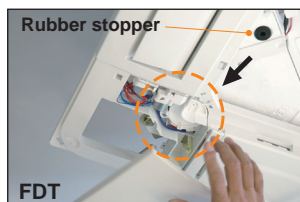
### 7 Easy check of drain pan

FDT  
FDTC

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

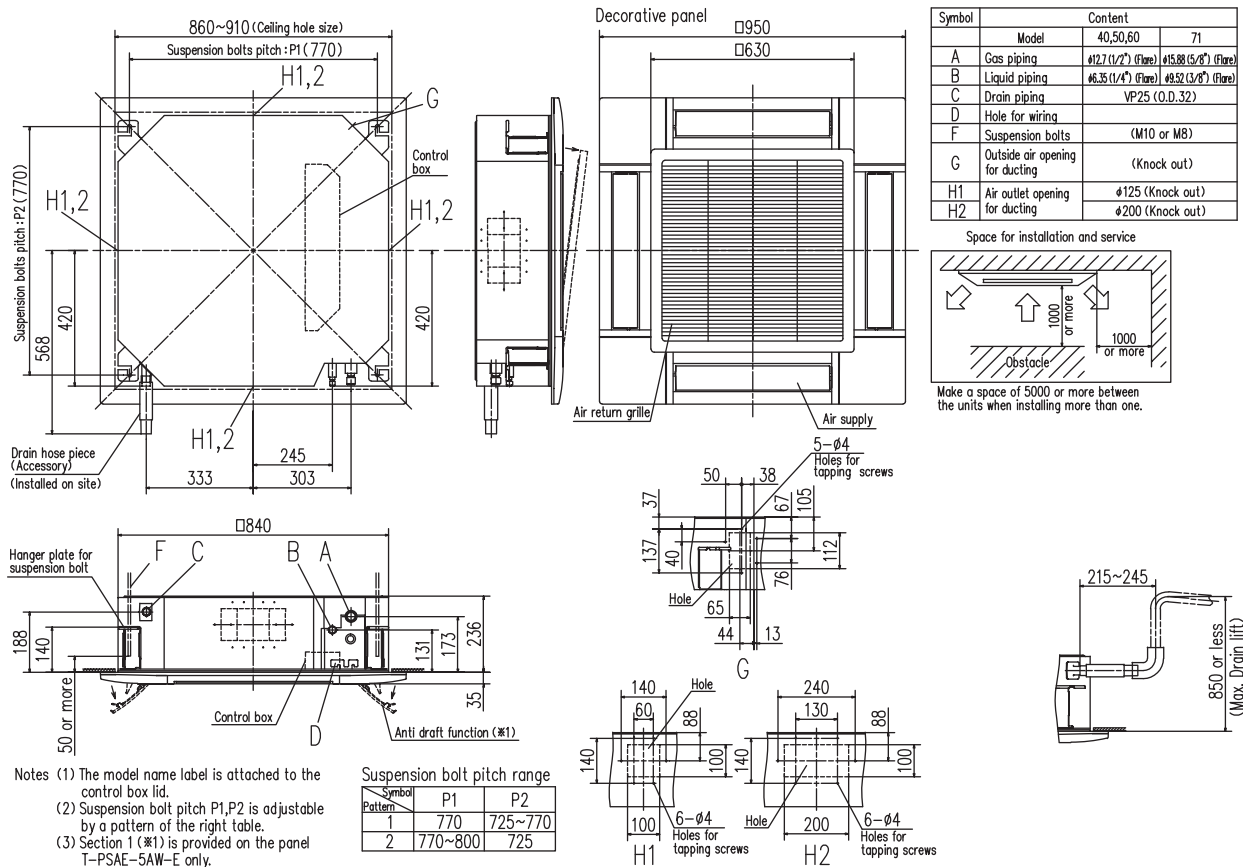


Remove corner lid. Remove drain cap cover and check the condition. It is necessary to clean-up, firstly remove the rubber stopper to drain water out and secondly remove the drain cap.

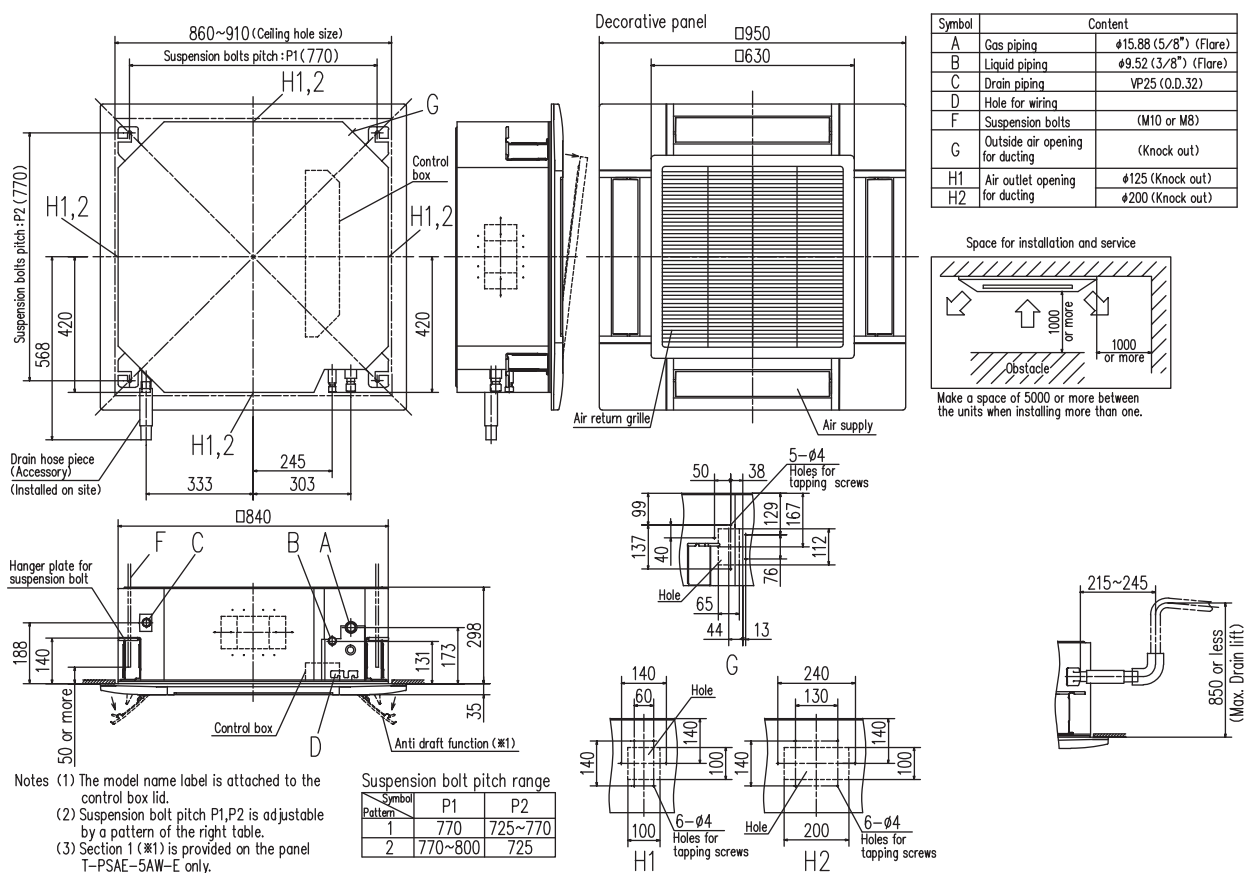


## DIMENSIONS (Unit:mm) - FDT -

### Models FDT40VH, 50VH, 60VH, 71VG



### Models FDT100VG, 125VG, 140VG



## SPECIFICATIONS -FDT-

R32			HyperInverter		
Set model name			FDT40ZSXW1VH	FDT50ZSXW1VH	FDT60ZSXW1VH
Indoor unit			FDT40VH	FDT50VH	FDT60VH
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W1	SRC60ZSX-W1
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)		kW	4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 6.7 )
Power consumption	Cooling/Heating	kW	0.890 / 1.03	1.29 / 1.31	1.33 / 1.56
EER/COP	Cooling/Heating		4.49 / 4.37	3.88 / 4.12	4.21 / 4.29
Inrush current		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	50 / 50	55 / 56	58 / 59
	Outdoor	Cooling/Heating	63 / 62	63 / 62	65 / 65
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27
		Heating (P-Hi/Hi/Me/Lo)			
Air flow	Outdoor	Cooling/Heating	52 / 50	52 / 50	53 / 54
		Cooling (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11
	Indoor	Heating (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11
		Outdoor	Cooling/Heating	39 / 33	39 / 33
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor			640 x 800(+71) x 290	
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)	
	Outdoor			26(Unit:21 Standard Panel:5)	
Ref.piping size		Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	
Refrigerant line (one way) length			m	Max.30	
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°C	-15~-46*2		
	Heating		-20~24		
Panel			T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

### NOTES:

The data are measured under the following conditions(ISO-T1,H1).

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

R410A				HyperInverter			
Set model name				FDT40ZSXVH	FDT50ZSXVH	FDT60ZSXVH	FDT71VNXVG
Indoor unit				FDT40VH	FDT50VH	FDT60VH	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 / 1.31	1.52 / 1.56	1.94 / 1.91	
EER/COP	Cooling/Heating		4.30 / 4.37	3.88 / 4.12	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	50 / 50	55 / 56	58 / 59	62 / 62	
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64	66 / 66	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 33 / 30 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 35 / 34 / 29	
		Heating (P-Hi/Hi/Me/Lo)					
	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52	51 / 48	
		Cooling (P-Hi/Hi/Me/Lo)					
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	
		Cooling/Heating					
	Outdoor	Cooling/Heating	36 / 33	39 / 33	41.5 / 39	60 / 50	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor			640 x 800(+71) x 290			750 x 880(+88) x 340
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)	
	Outdoor			45		60	
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")		9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.30		Max. 50	
Vertical height differences	Outdoor is higher/lower		m	Max.20 / Max.20		Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C	-15~46*2		-15~43*2		
	Heating		-20~24		-20~20		
Panel			T-PSA-5AW-E, T-PSAE-5AW-E				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

### NOTES:

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

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.



## SPECIFICATIONS -FDT-

R410A				HyperInverter					
Set model name				FDT100VNXVG		FDT125VNXVG		FDT140VNXVG	
Indoor unit				FDT100VG		FDT125VG		FDT140VG	
Outdoor unit				FDC100VNX		FDC125VNX		FDC140VNX	
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 ~ 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 )	
Power consumption		Cooling/Heating	kW	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	
Inrush current			A	5		5		5	
Max. current				24		26		26	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	63 / 63		64 / 64		64 / 64	
	Outdoor	Cooling/Heating		70 / 70		70 / 70		72 / 72	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)		48 / 39 / 37 / 31 48 / 39 / 37 / 31	49 / 41 / 39 / 32 49 / 41 / 39 / 32		49 / 42 / 39 / 33 49 / 42 / 39 / 33		
	Outdoor	Cooling/Heating		48 / 50	48 / 50		49 / 52		
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	m³/min	37 / 26 / 23 / 17 37 / 26 / 23 / 17		38 / 28 / 25 / 18 38 / 28 / 25 / 18		38 / 29 / 26 / 19 38 / 29 / 26 / 19	
		Outdoor		Cooling/Heating	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				Max.100					
Vertical height differences				Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~43*2					
	Heating			-20~20					
Panel				T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty				Pocket plastic net x 1(Washable)					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

R410A				HyperInverter		
Set model name				FDT100VSXVG	FDT125VSXVG	FDT140VSXVG
Indoor unit				FDT100VG	FDT125VG	FDT140VG
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	2.50 / 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
Inrush current			A	5	5	5
Max. current				15	15	15
Sound power level*1	Indoor	Cooling/Heating		63 / 63	64 / 64	64 / 64
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	dB(A)	48 / 39 / 37 / 31 48 / 39 / 37 / 31	49 / 41 / 39 / 32 49 / 41 / 39 / 32	49 / 42 / 39 / 33 49 / 42 / 39 / 33
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min	39 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
		Heating (P-Hi/Hi/Me/Lo)		39 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Cooling/Heating		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				Max.100		
Vertical height differences				Max.30 / Max.15		
Outdoor operating temperature range	Cooling		°C	-15~43*2		
	Heating			-20~20		
Panel				T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty				Pocket plastic net x 1(Washable)		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

### NOTES:

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

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R410A			HyperInverter					
Set model name			FDT71VNXPVH	FDT100VNXPVH	FDT125VNXPVH	FDT140VNXPVG	FDT140VNXTVH	
			Twin				Triple	
Indoor unit			FDT40VH x 2	FDT50VH x 2	FDT60VH x 2	FDT71VG x 2	FDT50VH x 3	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)		kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )	
Power consumption	Cooling/Heating	kW	1.85 / 1.99	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00	
EER/COP	Cooling/Heating		3.84 / 4.02	3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00	
Inrush current		A	5	5	5	5	5	
Max. current			17	24	26	26	26	
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	50 / 50	55 / 56	58 / 59	62 / 62	55 / 56
	Outdoor			Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		36 / 33 / 30 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 35 / 34 / 29	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)		36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 35 / 34 / 29	42 / 33 / 28 / 20
Air flow	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 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*2					
	Heating		-20~20					
Panel			T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty			Pocket plastic net x 1(Washable)					
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

The values are for simultaneous Multi operation.

R410A			HyperInverter				
Set model name			FDT100VSXPVH	FDT125VSXPVH	FDT140VSXPVG	FDT140VSXTVH	
			Twin			Triple	
Indoor unit			FDT50VH x 2	FDT60VH x 2	FDT71VG x 2	FDT50VH x 3	
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	16.0 ( 4.0 ~ 20.0 )	
Power consumption	Cooling/Heating	kW	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00	
EER/COP	Cooling/Heating		3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00	
Inrush current		A	5	5	5	5	
Max. current			15	15	15	15	
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	55 / 56	58 / 59	62 / 62	55 / 56
	Outdoor			Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 35 / 34 / 29	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)		42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 35 / 34 / 29	42 / 33 / 28 / 20
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	49 / 52
		Cooling (P-Hi/Hi/Me/Lo)		20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
Air flow	Indoor*3	Heating (P-Hi/Hi/Me/Lo)	m³/min	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 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*2			
	Heating		-20~20				
Panel				T-PSA-5AW-E, T-PSAE-5AW-E			
Air filter, Q'ty				Pocket plastic net x 1(Washable)			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

## SPECIFICATIONS -FDT-

R410A			Micro Inverter		
Set model name			FDT100VNAV	FDT125VNAV	FDT140VNAV
Indoor unit			FDT100VG	FDT125VG	FDT140VG
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	2.73 / 2.64	4.05 / 3.74	4.84 / 4.43
EER/COP	Cooling/Heating		3.66 / 4.26	3.09 / 3.74	2.81 / 3.50
Inrush current		A	5	5	5
Max. current			24	24	24
Sound power level*1	Indoor	Cooling/Heating	63 / 63	64 / 64	64 / 64
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33
	Indoor	Heating (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		80		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*2		
	Heating		-20~20		
Panel			T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

R410A			Micro Inverter		
Set model name			FDT100VSAV	FDT125VSAV	FDT140VSAV
Indoor unit			FDT100VG	FDT125VG	FDT140VG
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	2.73 / 2.63	4.05 / 3.74	4.84 / 4.43
EER/COP	Cooling/Heating		3.66 / 4.26	3.09 / 3.74	2.81 / 3.50
Inrush current		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	63 / 63	64 / 64	64 / 64
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33
	Indoor	Heating (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		82		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*2		
	Heating		-20~20		
Panel			T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

### NOTES:

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



The values are for simultaneous Multi operation.

R410A			Micro Inverter			
Set model name			FDT100VNAPVH	FDT125VNAPVH	FDT140VNAPVG	FDT140VNATVH
			Twin			Triple
Indoor unit			FDT50VH x 2	FDT60VH x 2	FDT71VG x 2	FDT50VH x 3
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	2.82 / 2.90	3.79 / 3.31	4.22 / 3.29	4.22 / 3.29
EER/COP	Cooling/Heating		3.55 / 3.86	3.30 / 4.23	3.22 / 4.71	3.22 / 4.71
Inrush current		A	5	5	5	5
Max. current			24	24	24	24
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	55 / 56	58 / 59	62 / 62
	Outdoor			Cooling/Heating	70 / 70	71 / 71
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	dB(A)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 35 / 34 / 29
	Outdoor			Cooling/Heating	42 / 33 / 28 / 20	44 / 34 / 30 / 23
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	m³/min	54 / 56	55 / 57	57 / 59
				22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating		22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	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			80		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.50		
Vertical height differences			Outdoor is higher/lower	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*2			
	Heating		-20~20			
Panel			T-PSA-5AW-E, T-PSAE-5AW-E			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

The values are for simultaneous Multi operation.

R410A			Micro Inverter				
Set model name			FDT100VSAPVH	FDT125VSAPVH	FDT140VSAPVG		
			Twin				
Indoor unit			FDT50VH x 2	FDT60VH x 2	FDT71VG x 2		
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA		
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )		
Nominal heating capacity (Min~Max)			kW 11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )		
Power consumption		Cooling/Heating	kW 2.82 / 2.90	3.79 / 3.31	4.22 / 3.29		
EER/COP		Cooling/Heating	3.55 / 3.86	3.30 / 4.23	3.22 / 4.71		
Inrush current		A	5	5	5		
Max. current			15	15	15		
Sound power level*1	Indoor*3	Cooling/Heating	55 / 56	58 / 59	62 / 62		
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73		
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 35 / 34 / 29		
		Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 35 / 34 / 29		
Air flow	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59		
		Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12		
	Indoor*3	Heating (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12		
		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)		
	Outdoor			82			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.50			
Vertical height differences			Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range		Cooling	°C	-15~50*2			
		Heating		-20~20			
Panel			T-PSA-5AW-E, T-PSAE-5AW-E				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

## SPECIFICATIONS -FDT-

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDT200VSAPVG	FDT250VSAPVG	FDT140VSATVH
			Twin		Triple
Indoor unit			FDT100VG x 2	FDT125VG x 2	FDT50VH x 3
Outdoor unit			FDC200VSA	FDC250VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating kW	6.25 / 6.02	8.36 / 7.15	4.22 / 3.29
EER/COP		Cooling/Heating	3.04 / 3.72	2.87 / 3.78	3.22 / 4.71
Inrush current		A	5	5	5
Max. current			20	21	15
Sound power level*1	Indoor*3	Cooling/Heating	63 / 63	64 / 64	55 / 56
	Outdoor	Cooling/Heating	72 / 74	73 / 75	73 / 73
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)	48 / 39 / 37 / 31	49 / 41 / 39 / 32	42 / 33 / 28 / 20
	Outdoor	Cooling/Heating	58 / 59	59 / 62	57 / 59
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	22 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	22 / 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	
	Outdoor			Unit: 236 x 840 x 840 Panel: 35 x 950 x 950	
Net weight	Indoor		kg	30(Unit:25 Standard Panel:5)	
	Outdoor			24(Unit:19 Standard Panel:5)	
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	Max.30 / Max.15		Max.50 / Max.15
Outdoor operating temperature range		Cooling Heating	°C	-15~50*2	
				-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-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

The values are for simultaneous Multi operation.

R410A				Micro Inverter					
Set model name				FDT200VSATVG		FDT200VSADVH		FDT250VSADVH	
				Triple		Double Twin			
Indoor unit				FDT71VG x 3		FDT50VH x 4		FDT60VH x 4	
Outdoor unit				FDC200VSA		FDC200VSA		FDC250VSA	
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)		kW		19.0 ( 5.2 ~ 22.4 )		19.0 ( 5.2 ~ 22.4 )		24.0 ( 6.9 ~ 28.0 )	
Nominal heating capacity (Min~Max)		kW		22.4 ( 3.3 ~ 25.0 )		22.4 ( 3.3 ~ 25.0 )		27.0 ( 5.5 ~ 31.5 )	
Power consumption	Cooling/Heating	kW		6.01 / 5.76		6.26 / 6.15		7.43 / 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*3	Cooling/Heating	dB(A)	62 / 62		55 / 56		58 / 59	
	Outdoor	Cooling/Heating		72 / 74		72 / 74		73 / 75	
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		46 / 35 / 34 / 29		41 / 33 / 30 / 26		44 / 34 / 30 / 27	
		Heating (P-Hi/Hi/Me/Lo)		46 / 35 / 34 / 29		42 / 33 / 28 / 20		44 / 34 / 30 / 23	
	Outdoor	Cooling/Heating		58 / 59		58 / 59		59 / 62	
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	28 / 18 / 15 / 12		22 / 16 / 13 / 10		26 / 17 / 14 / 11	
		Heating (P-Hi/Hi/Me/Lo)		28 / 18 / 15 / 12		22 / 16 / 13 / 10		26 / 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	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~50*2					
	Heating			-15~20					
Panel				T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty				Pocket plastic net x 1(Washable)					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

### NOTES:

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

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

R410A			Standard Inverter		
Set model name			FDT71VNPVG	FDT90VNP1VG	FDT100VNP1VG
Indoor unit			FDT71VG	FDT100VG	FDT100VG
Outdoor unit			FDC71VNP	FDC90VNP1	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	kW	2.31 / 1.73	2.67 / 2.19	2.76 / 2.84
EER/COP	Cooling/Heating		3.07 / 4.10	3.37 / 4.11	3.62 / 3.94
Inrush current		A	5	5	5
Max. current			14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 63	63 / 63
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	46 / 35 / 34 / 29	48 / 39 / 37 / 31	48 / 39 / 37 / 31
		Heating (P-Hi/Hi/Me/Lo)	46 / 35 / 34 / 29	48 / 39 / 37 / 31	48 / 39 / 37 / 31
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17
		Heating (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	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
Net weight	Indoor		26(Unit:21 Standard Panel:5)	30(Unit:25 Standard Panel:5)	
	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*2		
	Heating		-15~20		
Panel			T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty			Pocket Plastic net x1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		



# FDTC

Indoor Unit

## Ceiling Cassette -4way Compact

New

FDTC 40/50/60

Draft Prevention Panel (Option)



Energy Saving



Home Leave



Hi Power



Silent Operation



Flap Control



Favourite Setting



### Remote control (option)

#### Wired



RC-EX3A



RC-E5



RCH-E3

#### Wireless



RCN-TC-5AW-E2

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

## European Design & Flat Panel

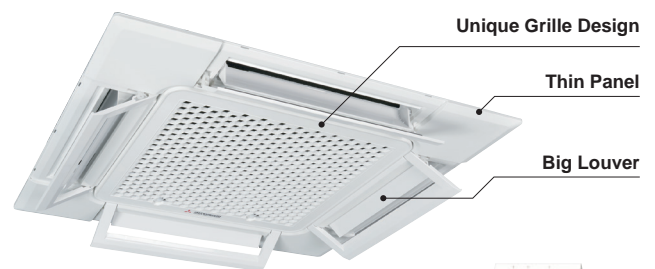
### Integrated ceiling system design (600×600)

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



### Compact Design

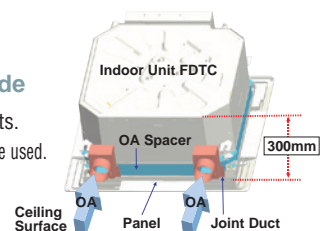
A weight of only 14kg. Height of thin panel and main body is only 248mm allowing it to be a very easy installation.



### Taking OA (Outside Air) into inside

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

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



## Draft Prevention Panel (Option)

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



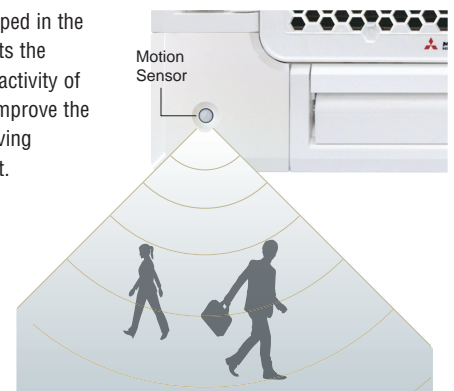
User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3A, RCN-TC-5AW-E2).

## Motion Sensor (Option)

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



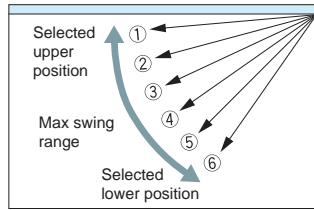
LB-TC-5W-E



## Individual Flap Control System

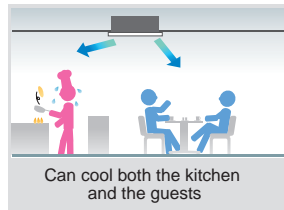
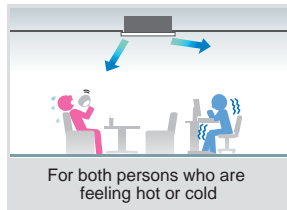
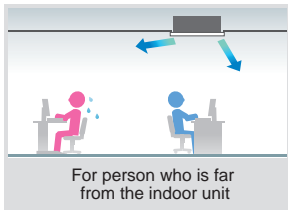


According to room temperature conditions, four directions of air flow can be controlled individually by following Flap control system. Individual flap control is available even after installation.



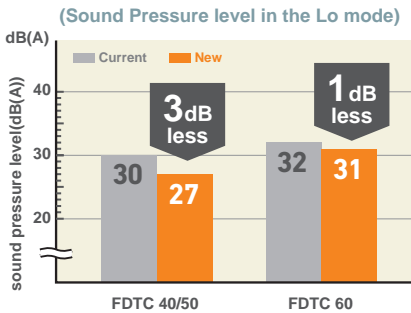
The flap can swing within the range of upper and lower flap position selected with wired remote control.

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



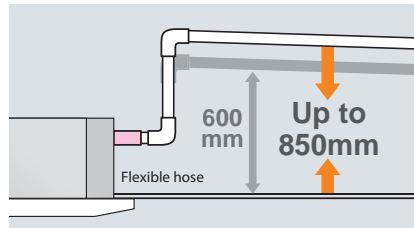
## Quieter Operation

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

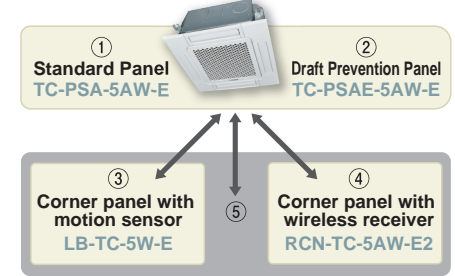


## 850mm Drain Pump

Drain can be discharged upward by 850mm 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.







## Panel Select Pattern (Option)






8 patterns of panel are available.

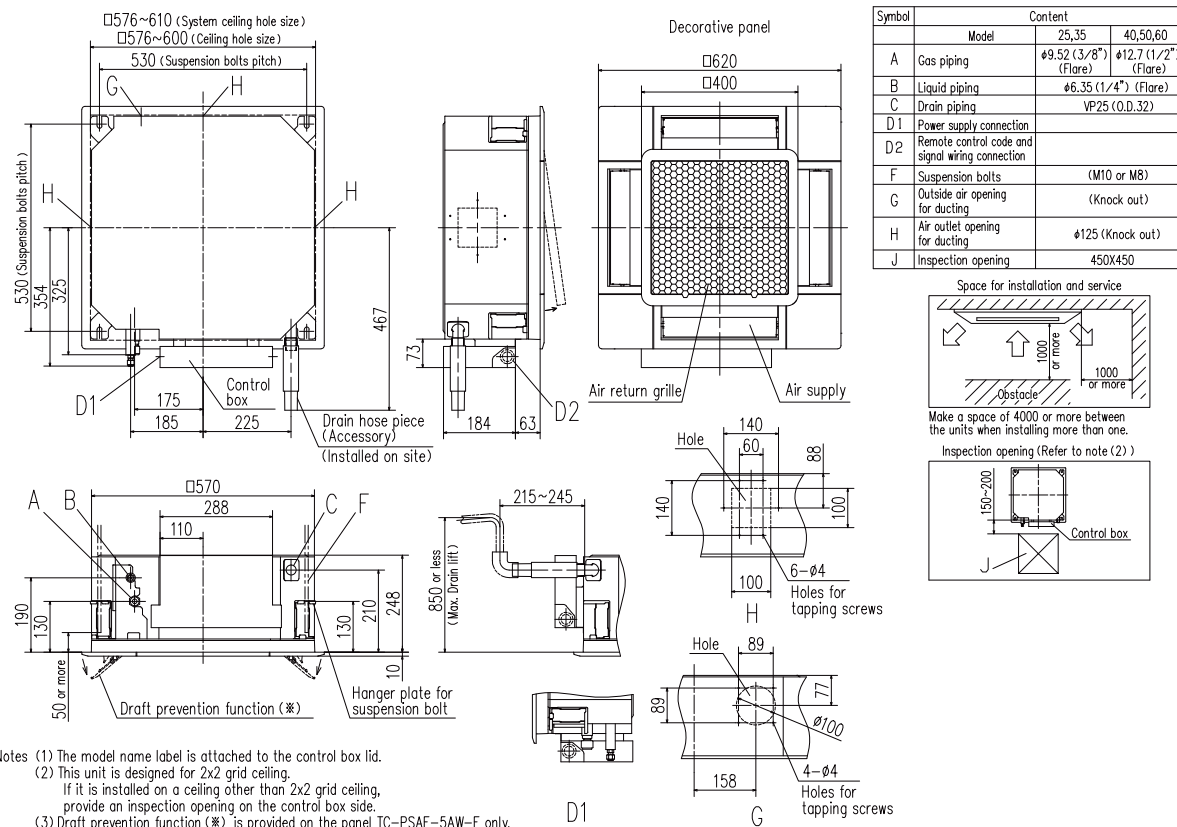
①	Standard Panel only
①+③	Standard Panel with corner panel with motion sensor
①+④	Standard Panel with corner panel with wireless receiver
①+⑤	Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
②	Draft Prevention Panel only
②+③	Draft Prevention Panel with corner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

## OUTDOOR UNIT

	Hyper Inverter		Hyper Inverter	
SRC • FDC	40~60ZSX-W1	40~60ZSX-S	71VNX	100~140VN(S)X
model	New 			
Chargeless	15m	15m	30m	
Height x Width x Depth (mm)	640 x 800(+71) x 290	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

	Micro Inverter		
FDC	100~140VN(S)A	200VSA	250VSA
model			
Chargeless	30m		
Height x Width x Depth (mm)	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

## DIMENSIONS (Unit:mm) - FDTC -



## SPECIFICATIONS -FDTC-

R32			Hyper Inverter		
Set model name			FDTC40ZSXW1VH	FDTC50ZSXW1VH	FDTC60ZSXW1VH
Indoor unit			FDTC40VH	FDTC50VH	FDTC60VH
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W1	SRC60ZSX-W1
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)
Nominal heating capacity (Min~Max)			kW 4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 6.7)
Power consumption			Cooling/Heating kW 0.98 / 1.13	1.40 / 1.53	1.73 / 2.14
EER/COP			Cooling/Heating 4.08 / 3.98	3.58 / 3.53	3.23 / 3.13
Inrush current			A 5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating	63 / 62	63 / 62	65 / 65
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Cooling/Heating	52 / 50	52 / 50	53 / 54
		Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	Cooling/Heating	39 / 33	39 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor	HeightxWidthxDepth	640 x 800(+71) x 290		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		45		
Ref.piping size			Liquid/Gas $\phi 6.35$ (1/4") / $\phi 12.7$ (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		$-15 \sim -46^{\circ}\text{C}$ *2		
	Heating		$-20 \sim -24$		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2		

### NOTES:

The data are measured under the following conditions(ISO-T1,H1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is  $-5^{\circ}\text{C}$  or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

R410A			Hyper Inverter		
Set model name			FDT C40ZSXVH	FDT C50ZSXVH	FDT C60ZSXVH
Indoor unit			FDT C40VH	FDT C50VH	FDT C60VH
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 )
Nominal heating capacity (Min~Max)			kW	4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )
Power consumption			Cooling/Heating kW	0.98 / 1.13	1.43 / 1.53
EER/COP			Cooling/Heating	4.08 / 3.98	3.50 / 3.53
Inrush current			A	5	5
Max. current			A	12	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	59 / 59	59 / 59
	Outdoor	Cooling/Heating		63 / 63	63 / 63
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 40 / 35 / 27	44 / 40 / 35 / 27
	Indoor	Heating (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	44 / 40 / 35 / 27
	Outdoor	Cooling/Heating	m³/min	50 / 49	50 / 49
	Outdoor	Cooling/Heating		13 / 11 / 9 / 7	13 / 11 / 9 / 7
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 11 / 9 / 7	13 / 11 / 9 / 7
	Indoor	Heating (P-Hi/Hi/Me/Lo)		13 / 11 / 9 / 7	13 / 11 / 9 / 7
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	36 / 33	40 / 33
	Outdoor	HeightxWidthxDepth		41.5 / 39	41.5 / 39
Net weight			kg	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620	
Ref.piping size			ømm	640 x 800(+71) x 290	
Refrigerant line (one way) length			m	16.5(Unit:14 Standard Panel:2.5)	
Vertical height differences			m	45	
Outdoor operating temperature range			°C	6.35(1/4") / 12.7(1/2")	
Panel				Max.20 / Max.20	
Air filter, Q'ty				-15~46*2	
Remote control (option)				-20~24	
				TC-PSA-5AW-E, TC-PSAE-5AW-E	
				Pocket plastic net x 1(Washable)	
				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2	

The values are for simultaneous Multi operation.

R410A			Hyper Inverter			
Set model name			FDT C71VNXPVH	FDT C100VNXPVH	FDT C125VNXPVH	FDT C140VNXVH
Indoor unit			FDT C40VH x 2	FDT C50VH x 2	FDT C60VH x 2	FDT C50VH x 3
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 )
Nominal heating capacity (Min~Max)			kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )
Power consumption			Cooling/Heating kW	2.03 / 1.64	2.80 / 3.50	4.10 / 4.10
EER/COP			Cooling/Heating	3.50 / 4.88	3.57 / 3.20	3.05 / 3.41
Inrush current			A	5	5	5
Max. current			A	17	24	24
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Indoor*3	Heating (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50
	Outdoor	Cooling/Heating		13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Indoor*3	Heating (P-Hi/Hi/Me/Lo)		13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	60 / 50	100 / 100	100 / 100
	Outdoor	HeightxWidthxDepth		750 x 880(+88) x 340	1,300 x 970 x 370	1,300 x 970 x 370
Net weight			kg	16.5(Unit:14 Standard Panel:2.5)		
Ref.piping size			ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.50		
Vertical height differences			m	Max.30 / Max.15		
Outdoor operating temperature range			°C	-15~43*2		
Panel				-20~20		
Air filter, Q'ty				TC-PSA-5AW-E, TC-PSAE-5AW-E		
Remote control (option)				Pocket plastic net x 1(Washable)		
				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2		

#### NOTES:

The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : 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.  
\*3 : The values are for one indoor unit operation. (Multi system only)



## SPECIFICATIONS -FDTC-

The values are for simultaneous Multi operation.

R410A			Hyper Inverter		
Set model name			FDTC100VSXPVH	FDTC125VSXPVH	FDTC140VSXTVH
			Twin		Triple
Indoor unit			FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
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	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34
EER/COP	Cooling/Heating		3.57 / 3.20	3.05 / 3.41	3.33 / 3.69
Inrush current		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor*3	Cooling/Heating	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	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*2		
	Heating		-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2		

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDTC100VNAPVH	FDTC125VNAPVH	FDTC140VNATVH
			Twin		Triple
Indoor unit			FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	3.30 / 3.15	4.90 / 4.50	4.75 / 4.60
EER/COP	Cooling/Heating		3.03 / 3.56	2.55 / 3.11	2.86 / 3.37
Inrush current		A	5	5	5
Max. current			25	25	25
Sound power level*1	Indoor*3	Cooling/Heating	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		80		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*2		
	Heating		-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E2		

### NOTES:

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

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R410A			Micro Inverter				
Set model name			FDTCT100VSAPVH	FDTCT125VSAPVH	FDTCT140VSATVH	FDTCT200VSADVH	FDTCT250VSADVH
			Twin		Triple	Double Twin	
Indoor unit			FDTCT50VH x 2	FDTCT60VH x 2	FDTCT50VH x 3	FDTCT50VH x 4	FDTCT60VH x 4
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)			kW 11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW	3.30 / 3.15	4.90 / 4.50	4.75 / 4.60	6.95 / 10.7	6.79 / 8.20
EER/COP	Cooling/Heating		3.03 / 3.56	2.55 / 3.11	2.86 / 3.37	2.73 / 2.10	3.53 / 3.29
Inrush current		A	5	5	5	5	5
Max. current			15	15	15	20	21
Sound power level*1	Indoor*3	Cooling/Heating	59 / 59	60 / 60	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73	72 / 74	75 / 75
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
Air flow	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	58 / 59	61 / 62
	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min 13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620			
	Outdoor			845 x 970 x 370		1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)			
	Outdoor			82		115	143
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			9.52(3/8") / 22.22(7/8") 12.7(1/2") / 22.22(7/8")	
Refrigerant line (one way) length			m	Max.50			Max.70
Vertical height differences			Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*2				
	Heating		-20~20			-15~20	
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2				

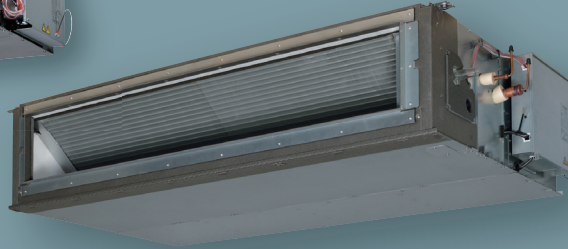
# FDU

Indoor Unit

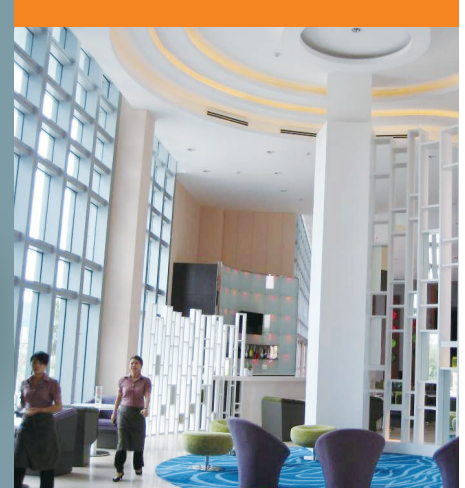
Duct Connected -High Static pressure-



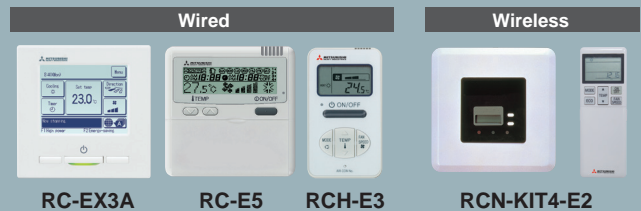
FDU 71/100/125/140



FDU 200/250



Remote control (option)



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

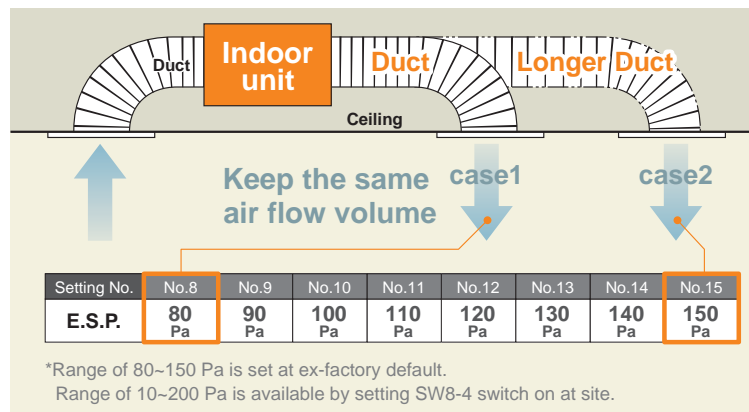
## External Static Pressure (E.S.P.) Control

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.

RC-E5

E.S.P. button

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



Expansion of external static pressure range

Previous  
10~130Pa



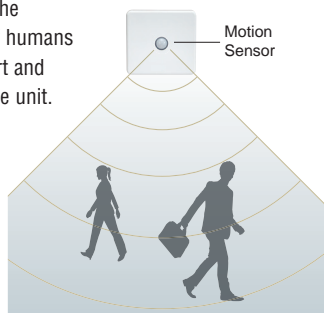
Current  
10~200Pa

## Motion Sensor (Option)

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

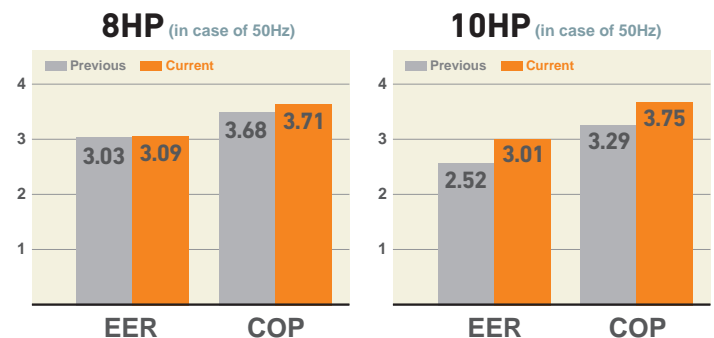


LB-KIT



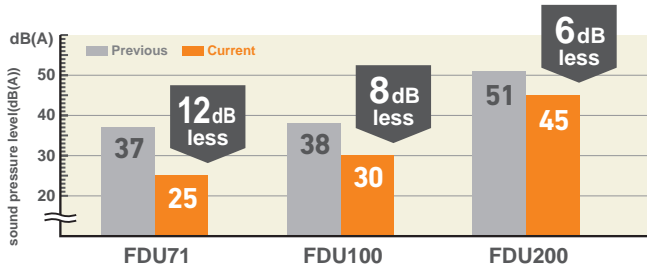
## High Efficiency

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



## Quieter Noise

Thanks to use of DC fan motor, quiet operation is achieved.



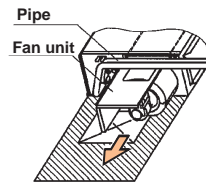
## Transparent Inspection Window

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



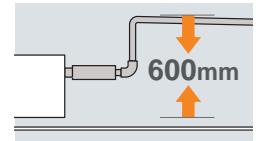
## Improvement of the Serviceability

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.



## Enhanced Installation Workability

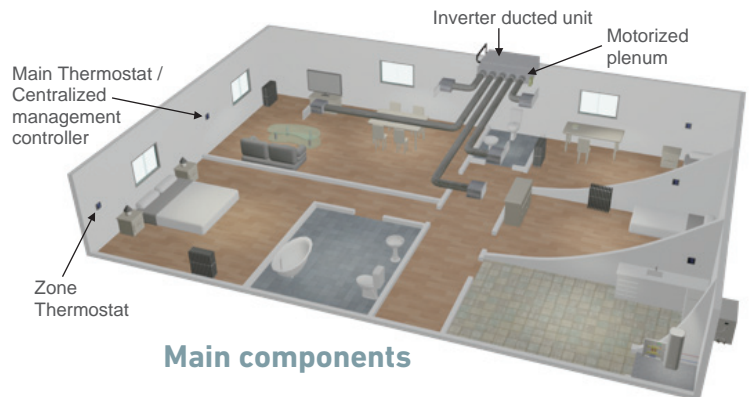
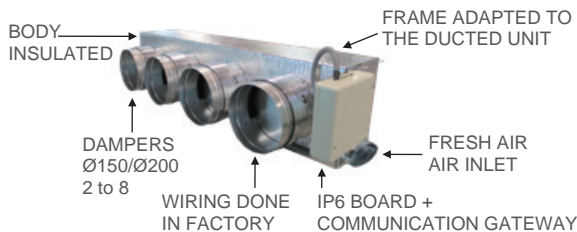
600mm Drain Pump is mounted in FDU71/100/125/140.  
The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.





## Round Duct Adapter (Available for FDU71~140)







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

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



## OUTDOOR UNIT

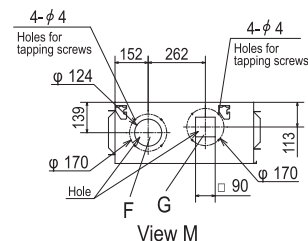
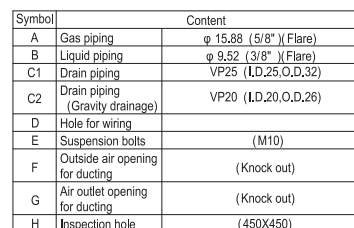
Hyper Inverter		
FDC	71VNX	100~140VN(S)X
model		
Chargeless	30m	
Height x Width x Depth (mm)	750 x 880(+88) x 340	1,300 x 970 x 370

Micro Inverter				Standard Inverter		
FDC	100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model						
Chargeless	30m			15m		
Height x Width x Depth (mm)	845 x 970 x 370	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

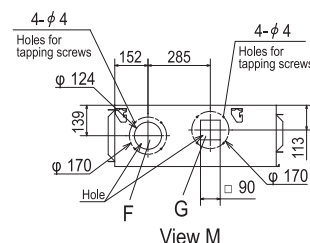
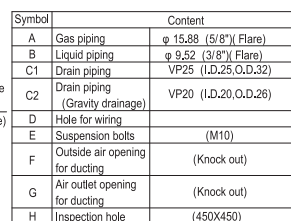


### ■ DIMENSIONS (Unit:mm) - FDU -

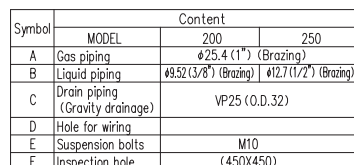
## Model FDU71VF1



### Models FDU100VF2,125VF,140VF



### Models FDU200VG, 250VG



## SPECIFICATIONS -FDU-

R410A			Hyper Inverter				
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
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52
		Cooling (P-Hi/Hi/Me/Lo)	m³/min	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 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		°C	-15~43*3			
	Heating			-20~20			
Air filter			Procure locally				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2				

R410A			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
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52
	Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min	36 / 28 / 25 / 19	39 / 32 / 26 / 20
		Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19		39 / 32 / 26 / 20	48 / 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-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2		

### NOTES:

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

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

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

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

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

## SPECIFICATIONS -FDU-

R410A			Micro Inverter		
Set model name			FDU100VNAVF2	FDU125VNAVF	FDU140VNAVF
Indoor unit			FDU100VF2	FDU125VF	FDU140VF
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP	Cooling/Heating	A	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current			5	5	5
Max. current			26	26	27
Sound power level*1	Indoor	dB(A)	65 / 65	67 / 67	70 / 70
	Outdoor		Cooling/Heating	70 / 70	71 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
		Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Indoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Outdoor	Cooling/Heating	75 / 73	75 / 73
External static pressure*2		Pa	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor		845 x 970 x 370		
Net weight	Indoor	kg	54		
	Outdoor		80		
Ref.piping size	Liquid/Gas		ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m Max.50		
Vertical height differences		Outdoor is higher/lower	m Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*3		
	Heating		-20~20		
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

R410A			Micro Inverter		
Set model name			FDU100VSAVF2	FDU125VSAVF	FDU140VSAVF
Indoor unit			FDU100VF2	FDU125VF	FDU140VF
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0)	13.6 ( 5.0 ~ 14.5)
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP	Cooling/Heating		3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current		A	5	5	5
Max. current			17	17	18
Sound power level* <sup>1</sup>	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor				
Sound pressure level* <sup>1</sup>	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)			
Air flow	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
		Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Indoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Outdoor	Cooling/Heating	75 / 73	75 / 73
External static pressure* <sup>2</sup>		Pa	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740	
	Outdoor			845 x 970 x 370	
Net weight	Indoor		kg	54	
	Outdoor			82	
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.50	
Vertical height differences	Outdoor is higher/lower		m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling		°C	-15~50* <sup>3</sup>	
	Heating			-20~20	
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

### NOTES:

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

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

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

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

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

R410A				Micro Inverter	
Set model name				FDU200VSAVG	FDU250VSAVG
Indoor unit				FDU200VG	FDU250VG
Outdoor unit				FDC200VSA	FDC250VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)		kW		19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)		kW		22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW		6.15 / 6.03	7.98 / 7.20
EER/COP	Cooling/Heating			3.09 / 3.71	3.01 / 3.75
Inrush current				5	5
Max. current				25	27
Sound power level*1	Indoor	Cooling/Heating	dB(A)	75 / 75	75 / 75
	Outdoor	Cooling/Heating		72 / 74	73 / 75
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		52 / 50 / 47 / 45	52 / 50 / 47 / 45
	Outdoor	Heating (P-Hi/Hi/Me/Lo)		52 / 50 / 47 / 45	52 / 50 / 47 / 45
Air flow	Indoor	Cooling/Heating	m³/min	58 / 59	59 / 62
		Cooling (P-Hi/Hi/Me/Lo)		80 / 72 / 64 / 56	80 / 72 / 64 / 56
	Outdoor	Heating (P-Hi/Hi/Me/Lo)		80 / 72 / 64 / 56	80 / 72 / 64 / 56
External static pressure*2		Pa		Standard:72 Max:200	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	379 x 1,600 x 893	
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		kg	89	
	Outdoor			115	143
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 25.4(1")	12.7(1/2") / 25.4(1")
Refrigerant line (one way) length		m		Max.70	
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C		-15~50*3	
	Heating			-15~20	
Air filter				Procure locally	
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2	

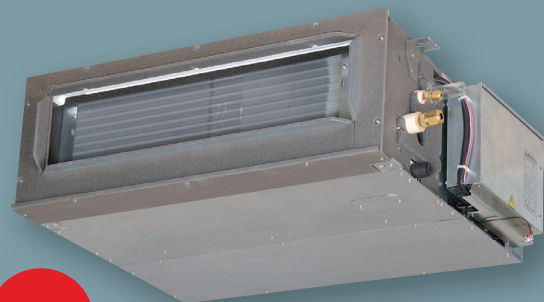
R410A				Standard Inverter		
Set model name				FDU71VNPVF1	FDU90VNP1VF2	FDU100VNP1VF2
Indoor unit				FDU71VF1	FDU100VF2	FDU100VF2
Outdoor unit				FDC71VNP	FDC90VNP1	FDC100VNP
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW		7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW		7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	kW		2.60 / 1.89	2.69 / 2.25	3.00 / 2.93
EER/COP	Cooling/Heating			2.73. / 3.76	3.35 / 4.00	3.33 / 3.82
Inrush current				5	5	5
Max. current				14.5	18.0	22.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
Air flow	Indoor	Cooling/Heating	m³/min	54 / 54	57 / 55	57 / 61
		Cooling (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
	Outdoor	Heating (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
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			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*3		
	Heating			-15~20		
Air filter				Procure locally		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		



# FDUM

Indoor Unit

**Duct Connected**  
**-Low/Middle Static pressure-**



**New**

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

Filter kit (option)



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



Energy Saving



Automatic Operation



Silent Operation



Hi Power



Weekly/  
Sleep/  
Peak-Cut Timer



Self-Diagnostics



Remote control (option)

Wired



RC-EX3A



RC-E5



RCH-E3

Wireless



RCN-KIT4-E2

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

## Thin Design

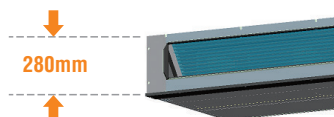
The height of all FDUM models is only 280mm.

FDUM100/125/140

FDUM40/50/60/71

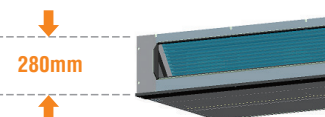
70mm less

19mm less



H 350mm

H 280mm



H 299mm

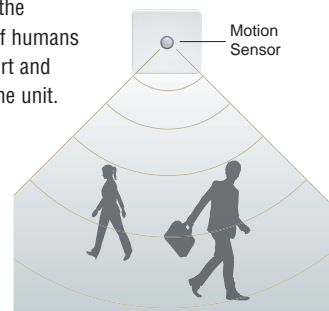
H 280mm

## Motion Sensor (Option)

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



LB-KIT



## Automatic External Static Pressure (E.S.P.) Control

Duct design was simplified.

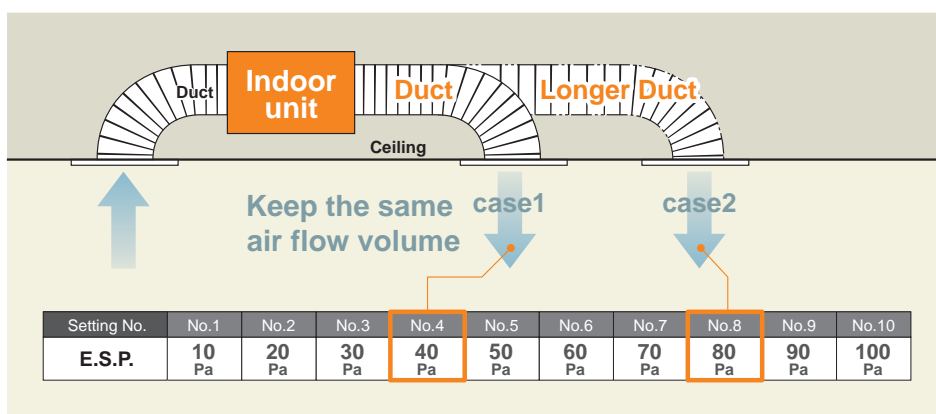
Using DC motor, the most optimum air flow volume can be achieved by this automatic control.

Indoor unit will recognize external static pressure by itself automatically and keep rated air flow volume.

RC-E5

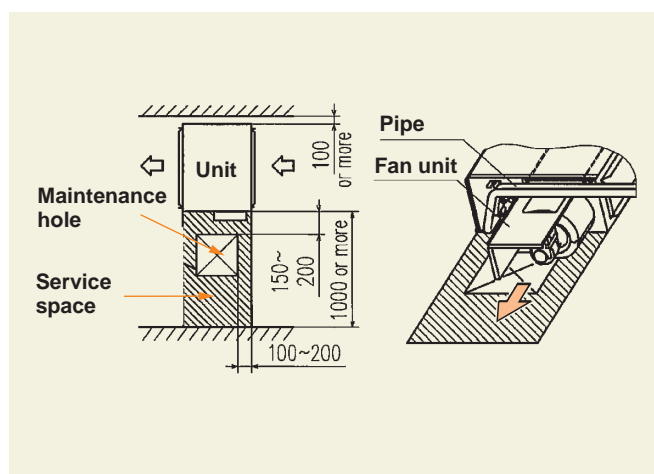
E.S.P. button

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



## 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.



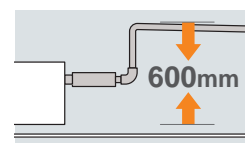
## Transparent Inspection Window

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



## Enhanced Installation Workability

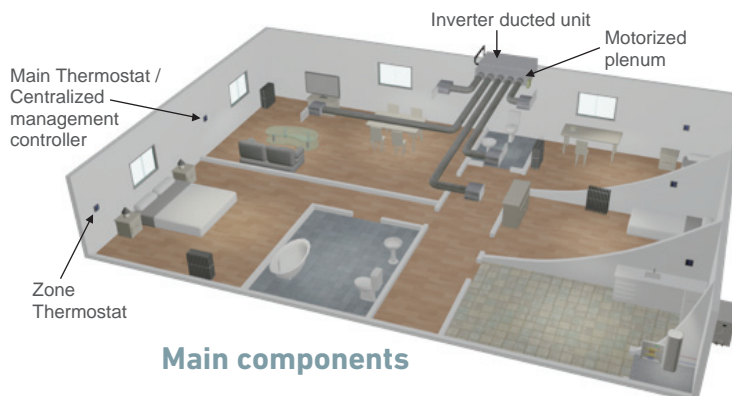
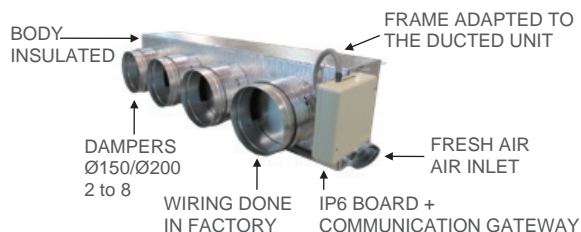
600mm Drain Pump is mounted in all models.  
The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



## Round Duct Adapter





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







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



Main components

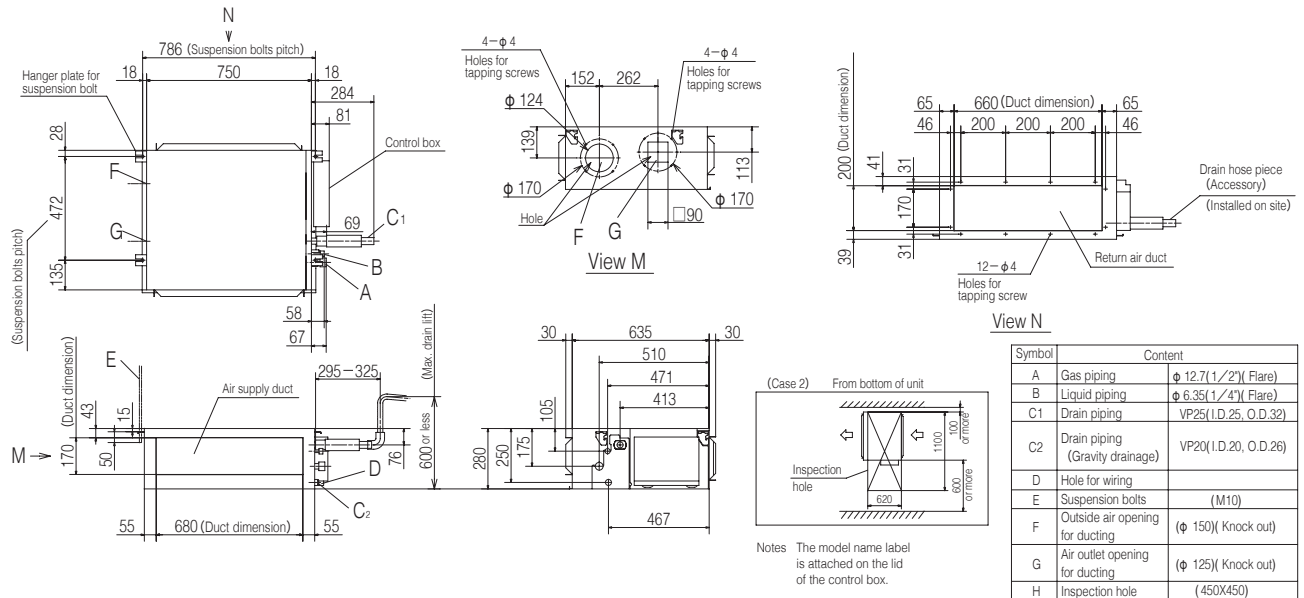
## OUTDOOR UNIT

	<i>Hyper Inverter</i>		<i>Hyper Inverter</i>	
SRC • FDC	40~60ZSX-W1	40~60ZSX-S	71VNX	100~140VN(S)X
model				
Chargeless	15m	15m	30m	
Height x Width x Depth (mm)	640 x 800(+71) x 290	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

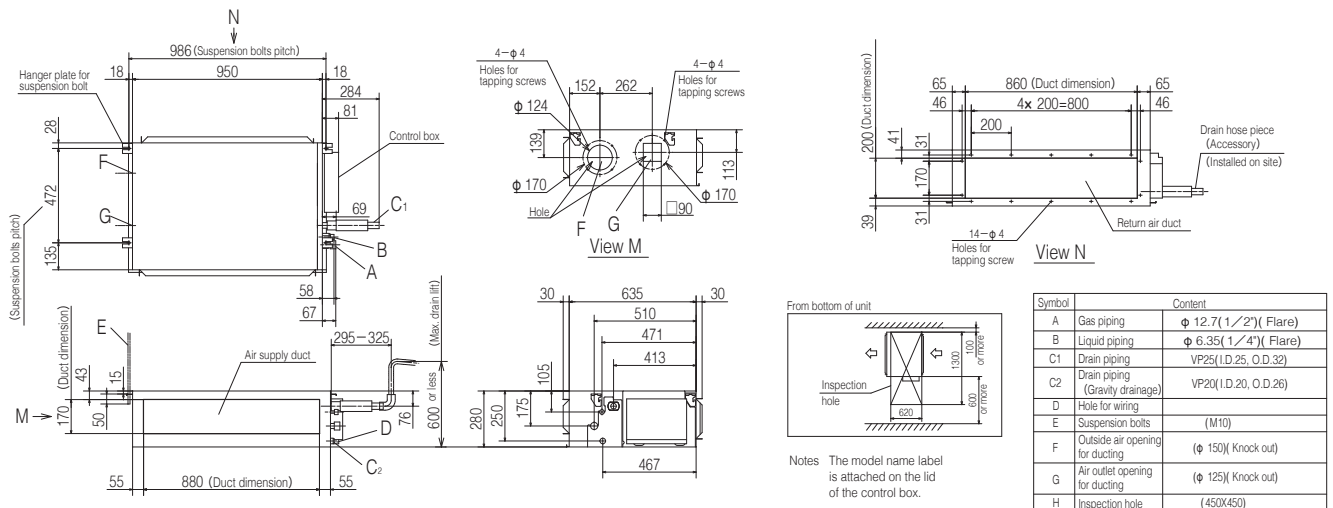
	Micro Inverter			Standard Inverter		
FDC	100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model						
Chargeless	30m			15m		
Height x Width x Depth (mm)	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm) - FDUM -

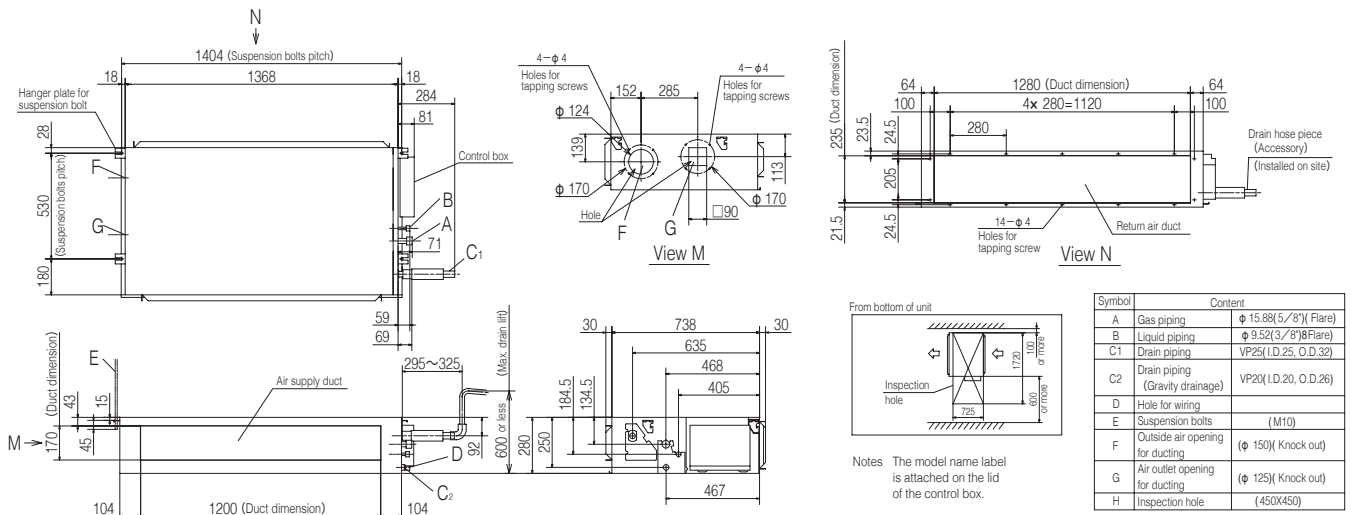
### Models FDUM40VH, FDUM50VH



### Models FDUM60VH,71VF1



### Models FDUM100VF2,125VF,140VF



## SPECIFICATIONS - FDUM -

R32			HyperInverter			
Set model name			FDUM40ZSXW1VH	FDUM50ZSXW1VH	FDUM60ZSXW1VH	
Indoor unit			FDUM40VH	FDUM50VH	FDUM60VH	
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W1	SRC60ZSX-W1	
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 ~ 7.1 )	
Power consumption		Cooling/Heating kW	1.10 / 1.10	1.51 / 1.59	1.54 / 1.75	
EER/COP		Cooling/Heating	3.62 / 4.09	3.31 / 3.39	3.64 / 3.83	
Inrush current		A	5	5	5	
Max. current			15	15	15	
Sound power level* <sup>1</sup>	Indoor	dB(A)	60 / 60	60 / 60	60 / 60	
	Outdoor		63 / 62	63 / 62	65 / 65	
Sound pressure level* <sup>1</sup>	Indoor		Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26 37 / 32 / 29 / 26	37 / 32 / 29 / 26 37 / 32 / 29 / 26	36 / 31 / 28 / 25 36 / 31 / 28 / 25
	Outdoor		Cooling/Heating	52 / 50	52 / 50	53 / 54
Air flow	Indoor		Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8 13 / 10 / 9 / 8	13 / 10 / 9 / 8 13 / 10 / 9 / 8	20 / 15 / 13 / 10 20 / 15 / 13 / 10
	Outdoor		Cooling/Heating	39 / 33	39 / 33	41.5 / 39
External static pressure* <sup>2</sup>			Pa	Standard:35 Max:100		
Exterior dimensions	Indoor		HeightxWidthxDepth	280 x 750 x 635		280 x 950 x 635
	Outdoor	640 x 800(+71) x 290				
Net weight	Indoor	kg	29		34	
	Outdoor		45			
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")			
Refrigerant line (one way) length		m	Max.30			
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20			
Outdoor operating temperature range	Cooling	°C	-15~46* <sup>3</sup>			
	Heating		-20~24			
Air filter (option)			Filter kit : UM-FL1EF		Filter kit : UM-FL2EF	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2			

### NOTES:

The data are measured under the following conditions(ISO-T1,H1).

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 100Pa.

\*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.

R410A			HyperInverter		
Set model name			FDUM40ZSXVH	FDUM50ZSXVH	FDUM60ZSXVH
Indoor unit			FDUM40VH	FDUM50VH	FDUM60VH
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 ~ 7.1 )
Power consumption	Cooling/Heating	kW	0.952 / 1.07	1.38 / 1.45	1.54 / 1.75
EER/COP	Cooling/Heating		4.20 / 4.21	3.62 / 3.72	3.64 / 3.83
Inrush current		A	5	5	5
Max. current			12	15	15
Sound power level*1	Indoor	dB(A)	60 / 60	60 / 60	60 / 60
	Outdoor		63 / 63	63 / 63	65 / 64
Sound pressure level*1	Indoor	dB(A)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25
	Outdoor		37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25
Air flow	Indoor	m³/min	50 / 49	50 / 49	52 / 52
			13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10
	Outdoor	m³/min	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25
			50 / 49	50 / 49	52 / 52
External static pressure*2		Pa	Standard:35 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635		280 x 950 x 635
	Outdoor		640 x 800(+71) x 290		
Net weight	Indoor	kg	29		34
	Outdoor		45		
Ref.piping size		Liquid/Gas	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		
Air filter (option)			Filter kit : UM-FL1EF		Filter kit : UM-FL2EF
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

### NOTES:

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

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

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

\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.

\*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 - FDUM -

R410A			HyperInverter				
Set model name			FDUM71VNXVF1	FDUM100VNXVF2	FDUM125VNXVF	FDUM140VNXV	
Indoor unit			FDUM71VF1	FDUM100VF2	FDUM125VF	FDUM140VF	
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	2.03 / 1.99	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42	
EER/COP	Cooling/Heating		3.50 / 4.02	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62	
Inrush current		A	5	5	5	5	
Max. current			17	24	26	26	
Sound power level*1	Indoor	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	Indoor		Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
			Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Outdoor		Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
				24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Indoor	Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	
		Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
External static pressure*2		Pa	Standard:35 Max:100 Standard:60 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635 280 x 1,370 x 740				
	Outdoor		750 x 880(+88) x 340 1,300 x 970 x 370				
Net weight	Indoor		34 54				
	Outdoor		60 105				
Ref.piping size		Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.50		Max.100		
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43**3				
	Heating		-20~20				
Air filter (option)			Filter kit : UM-FL2EF		Filter kit : UM-FL3EF		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

R410A			HyperInverter			
Set model name			FDUM100VSXVF2	FDUM125VSXVF	FDUM140VSXVF	
Indoor unit			FDUM100VF2	FDUM125VF	FDUM140VF	
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			15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70
	Outdoor			Cooling/Heating	70 / 70	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor			Cooling/Heating	44 / 38 / 36 / 30	45 / 40 / 34 / 29
Air flow	Indoor	Cooling/Heating	m³/min	48 / 50	48 / 50	49 / 52
		Cooling (P-Hi/Hi/Me/Lo)		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19		39 / 32 / 26 / 20	48 / 35 / 28 / 22	
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100
External static pressure*2		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*3		
	Heating			-20~20		
Air filter (option)				Filter kit : UM-FL3EF		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2		

### NOTES:

- The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
\*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.  
\*4 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R410A			HyperInverter					
Set model name			FDUM71VNXPVH	FDUM100VNXPVH	FDUM125VNXPVH	FDUM140VNXPVF1	FDUM140VNXTVH	
			Twin				Triple	
Indoor unit			FDUM40VH x 2	FDUM50VH x 2	FDUM60VH x 2	FDUM71VF1 x 2	FDUM50VH x 3	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz					
Nominal cooling capacity (Min~Max)		kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )	
Power consumption	Cooling/Heating	kW	2.01 / 1.91	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69	
EER/COP	Cooling/Heating		3.53 / 4.19	3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41	
Inrush current		A	5	5	5	5	5	
Max. current			17	24	26	26	26	
Sound power level*1	Indoor*4	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
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	dB(A)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor			Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
External static pressure*2		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*3					
	Heating		-20~20					
Air filter (option)			Filter kit : UM-FL1EF			Filter kit : UM-FL2EF		Filter kit : UM-FL1EF
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

The values are for simultaneous Multi operation.

R410A			HyperInverter				
Set model name			FDUM100VSXPVH	FDUM125VSXPVH	FDUM140VSXPVF1	FDUM140VSXTVH	
			Twin		Triple		
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VF1 x 2	FDUM50VH x 3	
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	16.0 ( 4.0 ~ 20.0 )	
Power consumption	Cooling/Heating	kW	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69	
EER/COP	Cooling/Heating		3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41	
Inrush current		A	5	5	5	5	
Max. current			15	15	15	15	
Sound power level*1	Indoor*4	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor			Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	m³/min	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8	
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8	
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100	
External static pressure*2		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			1,300 x 970 x 370			
Net weight	Indoor		kg	29	34	29	
	Outdoor			105			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.100				
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*3				
	Heating		-20~20				
Air filter (option)			Filter kit : UM-FL1EF	Filter kit : UM-FL2EF		Filter kit : UM-FL1EF	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

## SPECIFICATIONS - FDUM -

R410A			Micro Inverter			
Set model name			FDUM100VNAVF2	FDUM125VNAVF	FDUM140VNAVF	
Indoor unit			FDUM100VF2	FDUM125VF	FDUM140VF	
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption		Cooling/Heating kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21	
EER/COP		Cooling/Heating	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68	
Inrush current		A	5	5	5	
Max. current			26	26	27	
Sound power level* <sup>1</sup>	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70	
	Outdoor		Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level* <sup>1</sup>	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	
		Indoor	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Heating (P-Hi/Hi/Me/Lo)		m <sup>3</sup> /min	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
			Outdoor	Cooling/Heating	75 / 73	75 / 73
External static pressure* <sup>2</sup>		Pa	Standard:60 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth <td rowspan="2">mm</td> <td colspan="2">280 x 1,370 x 740</td>	mm	280 x 1,370 x 740		
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	54		
	Outdoor			80		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.50		
Vertical height differences		Outdoor is higher/lower		m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling		°C	-15~50* <sup>3</sup>		
	Heating			-20~20		
Air filter (option)				Filter kit : UM-FL3EF		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2		

R410A			Micro Inverter		
Set model name			FDUM100VSAVF2	FDUM125VSAVF	FDUM140VSAVF
Indoor unit			FDUM100VF2	FDUM125VF	FDUM140VF
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		Cooling/Heating kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP		Cooling/Heating	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current		A	5	5	5
Max. current			17	17	18
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
		Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
External static pressure*2		Pa	Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		54		
	Outdoor		82		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences		Outdoor is higher/lower m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*3		
	Heating		-20~20		
Air filter (option)			Filter kit : UM-FL3EF		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2		

### NOTES:

- The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
\*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.  
\*4 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R410A			Micro Inverter			
Set model name			FDUM100VNAPVH	FDUM125VNAPVH	FDUM140VNAPVF1	
			Twin			
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VF1 x 2	
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	
Power consumption	Cooling/Heating	kW	3.25 / 3.21	4.53 / 3.75	5.02 / 4.20	
EER/COP	Cooling/Heating		3.08 / 3.49	2.76 / 3.73	2.71 / 3.69	
Inrush current		A	5	5	5	
Max. current			26	26	27	
Sound power level* <sup>1</sup>	Indoor* <sup>4</sup>	dB(A)	60 / 60	60 / 60	65 / 65	
	Outdoor		Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level* <sup>1</sup>	Indoor* <sup>4</sup>	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	
Air flow	Indoor* <sup>4</sup>	m³/min	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
			Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	
External static pressure* <sup>2</sup>		Pa	Standard:35 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635	280 x 950 x 635		
	Outdoor		845 x 970 x 370			
Net weight	Indoor	kg	29	34		
	Outdoor		80			
Ref.piping size		Liquid/Gas	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50			
Vertical height differences		Outdoor is higher/lower	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~50* <sup>3</sup>			
	Heating		-20~20			
Air filter (option)			Filter kit : UM-FL1EF	Filter kit : UM-FL2EF		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

The values are for simultaneous Multi operation.

R410A			Micro Inverter	
Set model name			FDUM140VNATVH	FDUM100VSAPVH
			Triple	Twin
Indoor unit			FDUM50VH x 3	FDUM50VH x 2
Outdoor unit			FDC140VNA	FDC100VSA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)		kW	13.6 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	15.5 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )
Power consumption	Cooling/Heating	kW	5.02 / 4.20	3.25 / 3.21
EER/COP	Cooling/Heating		2.71 / 3.69	3.08 / 3.49
Inrush current		A	5	5
Max. current			27	17
Sound power level*1	Indoor*4	Cooling/Heating	60 / 60	60 / 60
	Outdoor	Cooling/Heating	73 / 73	70 / 70
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating	57 / 59	54 / 56
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8
	Outdoor	Cooling/Heating	75 / 73	75 / 73
External static pressure*2			Standard:35 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		29	
	Outdoor		80	82
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			Max.50	
Vertical height differences Outdoor is higher/lower			Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°C	-15~50*3	
	Heating		-20~20	
Air filter (option)			Filter kit : UM-FL1EF	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2	



## SPECIFICATIONS - FDUM -

The values are for simultaneous Multi operation.

R410A			Micro Inverter			
Set model name			FDUM125VSAPVH	FDUM140VSAPVF1	FDUM200VSAPVF2	FDUM250VSAPVF
			Twin			
Indoor unit			FDUM60VH x 2	FDUM71VF1 x 2	FDUM100VF2 x 2	FDUM125VF x 2
Outdoor unit			FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)		kW	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW	4.53 / 3.75	5.02 / 4.20	6.51 / 6.04	8.33 / 7.52
EER/COP	Cooling/Heating		2.76 / 3.73	2.71 / 3.69	2.92 / 3.71	2.88 / 3.59
Inrush current		A	5	5	5	5
Max. current			17	18	22	24
Sound power level*1	Indoor*4		Cooling/Heating	60 / 60	65 / 65	65 / 65
	Outdoor	Cooling/Heating	71 / 71	73 / 73	72 / 74	73 / 75
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)	36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Outdoor	Cooling/Heating	55 / 57	57 / 59	58 / 59	59 / 62
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20
		Heating (P-Hi/Hi/Me/Lo)	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	Outdoor	Cooling/Heating	75 / 73	75 / 73	135 / 135	143 / 151
External static pressure*2		Pa	Standard:35 Max:100		Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635		280 x 1,370 x 740	
	Outdoor		845 x 970 x 370		1,300 x 970 x 370 1,505 x 970 x 370	
Net weight	Indoor	kg	34		54	
	Outdoor		82		115 143	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") 15.88(5/8")		9.52(3/8") / 22.22(7/8") 12.7(1/2") / 22.22(7/8")	
Refrigerant line (one way) length		m	Max.50		Max.70	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		Max.30 / Max.15	
Outdoor operating temperature range	Cooling	℃	-15~50*3			-15~20
	Heating					
Air filter (option)			Filter kit : UM-FL2EF		Filter kit : UM-FL3EF	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

The values are for simultaneous Multi operation.

R410A				Micro Inverter			
Set model name				FDUM140VSATVH		FDUM200VSATVF1	
				Triple			
Indoor unit				FDUM50VH x 3		FDUM71VF1 x 3	
Outdoor unit				FDC140VSA		FDC200VSA	
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	13.6 ( 5.0 ~ 14.5 )		19.0 ( 5.2 ~ 22.4 )	
Nominal heating capacity (Min~Max)			kW	15.5 ( 4.0 ~ 16.5 )		22.4 ( 3.3 ~ 25.0 )	
Power consumption		Cooling/Heating	kW	5.02 / 4.20		6.46 / 6.15	
EER/COP		Cooling/Heating		2.71 / 3.69		2.94 / 3.64	
Inrush current			A	5		5	
Max. current				18		22	
Sound power level* <sup>1</sup>	Indoor* <sup>4</sup>	Cooling/Heating	dB(A)	60 / 60		65 / 65	
	Outdoor	Cooling/Heating		73 / 73		72 / 74	
Sound pressure level* <sup>1</sup>	Indoor* <sup>4</sup>	Cooling (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26		38 / 33 / 29 / 25	
		Heating (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26		38 / 33 / 29 / 25	
	Outdoor	Cooling/Heating		57 / 59		58 / 59	
Air flow	Indoor* <sup>4</sup>	Cooling (P-Hi/Hi/Me/Lo)		m³/min	13 / 10 / 9 / 8		24 / 19 / 15 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8		24 / 19 / 15 / 10		
	Outdoor	Cooling/Heating	75 / 73		135 / 135		
External static pressure* <sup>2</sup>			Pa	Standard:35 Max:100		Standard:35 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635	
	Outdoor			845 x 970 x 370		1,300 x 970 x 370	
Net weight	Indoor		kg	29		34	
	Outdoor			82		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.50		Max.70	
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15		Max.30 / Max.15	
Outdoor operating temperature range		Cooling	°C	-15~50* <sup>3</sup>			
		Heating					
Air filter (option)				Filter kit : UM-FL1EF		Filter kit : UM-FL2EF	
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2			

### NOTES:

- The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
\*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.  
\*4 : The values are for one indoor unit operation. (Multi system only)

R410A			Standard Inverter			
Set model name			FDUM71VNPVF1	FDUM90VNP1VF2	FDUM100VNP1VF2	
Indoor unit			FDUM71VF1	FDUM100VF2	FDUM100VF2	
Outdoor unit			FDC71VNP	FDC90VNP1	FDC100VNP	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )	
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )	
Power consumption	Cooling/Heating	kW	2.60 / 1.89	2.69 / 2.25	3.00 / 2.93	
EER/COP	Cooling/Heating		2.73 / 3.76	3.35 / 4.00	3.33 / 3.82	
Inrush current		A	5	5	5	
Max. current			14.5	18.0	22.0	
Sound power level* <sup>1</sup>	Indoor	Cooling/Heating	65 / 65	65 / 65	65 / 65	
	Outdoor		Cooling/Heating	67 / 67	69 / 69	70 / 70
Sound pressure level* <sup>1</sup>	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30	
	Outdoor		Cooling/Heating	54 / 54	57 / 55	57 / 61
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19	
		Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19	
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79	
External static pressure* <sup>2</sup>		Pa	Standard:35 Max:100	Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635	280 x 1,370 x 740		
	Outdoor		640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370	
Net weight	Indoor		34	54		
	Outdoor		45	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* <sup>3</sup>			
	Heating		-15~20			
Air filter (option)			Filter kit : UM-FL2EF	Filter kit : UM-FL3EF		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

# SRK

Indoor Unit  
Wall Mounted



**SRK 50•60**  
Only used with  
Multi System.

**SRK 100**  
Common to the  
both case of  
Single and Multi



## Remote control (option)

### Wired



RC-EX3A



RC-E5



RCH-E3

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

## Elegant Timeless Design

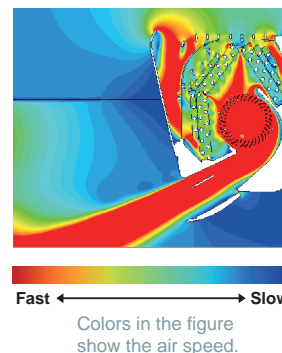
The SRK series air-conditioners have been stylishly designed with rounded contours that fit beautifully into any of Europe's diverse interior settings. The design was created by the Italian industrial design studio Tensa srl, based in Milan, to respond to a broad spectrum of local user needs.

## Jet Technology

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



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.



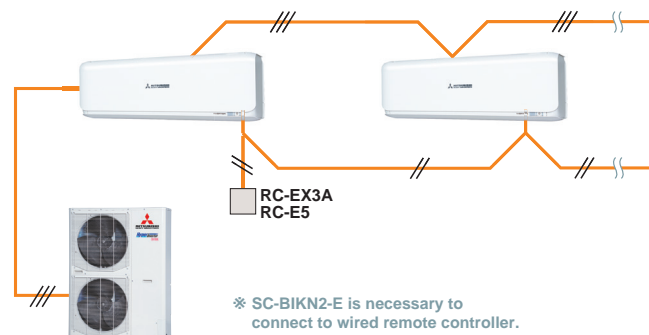
## Long Reach Air Flow

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

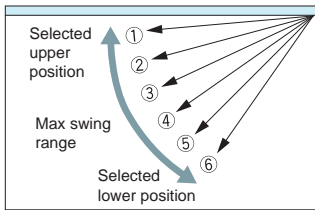


## Indoor Unit Connection

Max three indoor units are connectable to one outdoor unit.



## Flap Control System

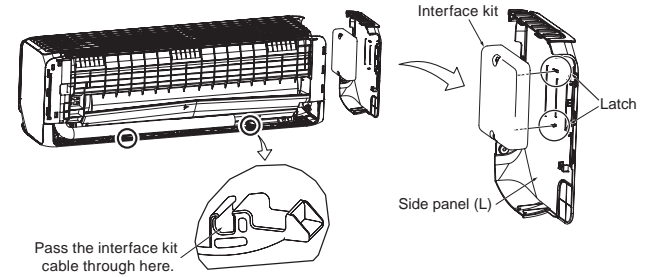


The flap can swing within the range of upper and lower flap position selected.





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

## SC-BIKN2-E connection (Option)

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

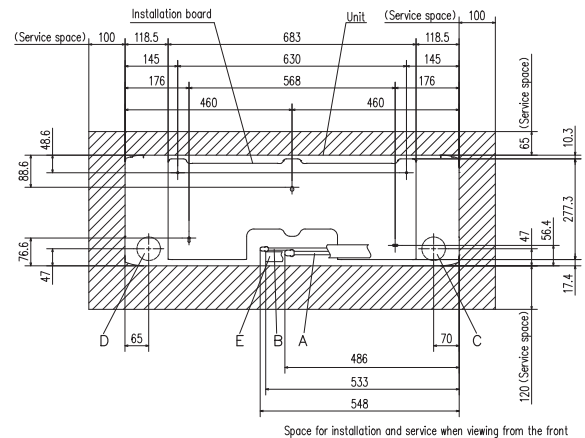
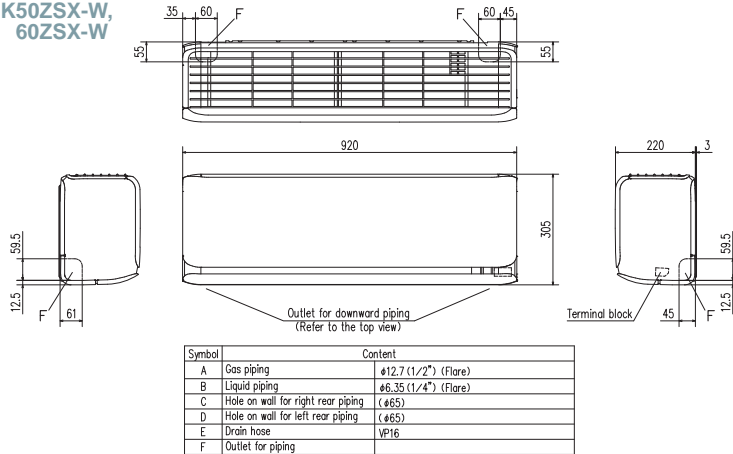


## OUTDOOR UNIT

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

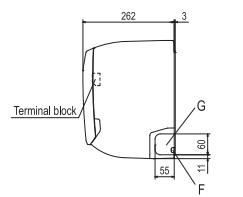
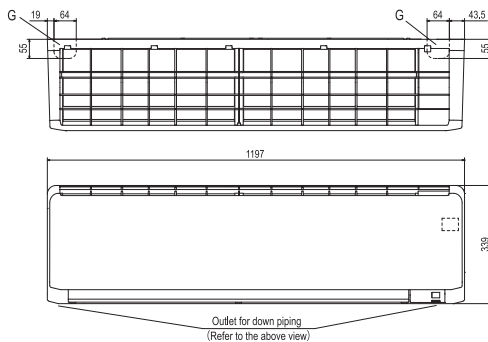
## DIMENSIONS (Unit:mm) - SRK -

SRK50ZSX-W,  
60ZSX-W



Space for installation and service when viewing from the front

SRK100ZR-S



Space for installation and service when viewing from the front



## SPECIFICATIONS - SRK -

The values are for simultaneous Multi operation.

R410A			HyperInverter		
Set model name			SRK100VNXPSX	SRK125VNXPSX	SRK140VNXTSX
			Twin		Triple
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
Outdoor unit			FDC100VNX	FDC125VNX	FDC140VNX
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 ~ 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 )
Power consumption	Cooling/Heating	kW	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
Inrush current		A	5	5	5
Max. current			24	26	26
Sound power level*1	Indoor*3	Cooling/Heating	59 / 62	62 / 63	59 / 62
	Outdoor		70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22
			46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4
		Heating (Hi/Me/Lo/Ulo)	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	305 x 920 x 220		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		13		
	Outdoor		105		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*2		
	Heating		-20~20		
Air filter, Q'ty			Polypropylene net x 2(washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E		

The values are for simultaneous Multi operation.

R410A			HyperInverter		
Set model name			SRK100VSXPZSX	SRK125VSXPZSX	SRK140VSXTZSX
			Twin		Triple
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
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	2.66 / 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
Inrush current		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor*3	Cooling/Heating	59 / 62	62 / 63	59 / 62
	Outdoor		70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22
			46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
Air flow	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	14.3 / 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4
		Heating (Hi/Me/Lo/Ulo)	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	305 x 920 x 220		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		13		
	Outdoor		105		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~43*2		
	Heating		-20~20		
Air filter, Q'ty			Polypropylene net x 2(washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E		

### NOTES:

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

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

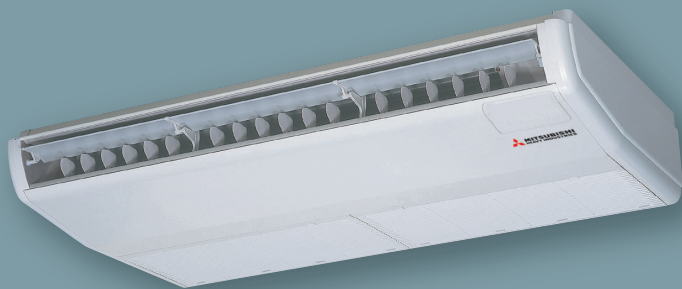
R410A			Micro Inverter	
Set model name			SRK100VNAZR	SRK100VSAZR
Indoor unit			SRK100ZR-S	SRK100ZR-S
Outdoor unit			FDC100VNA	FDC100VSA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	11.2 ( 4.0 ~ 12.5 )
Power consumption		Cooling/Heating	3.19 / 2.78	3.19 / 2.78
EER/COP		Cooling/Heating	3.13 / 4.03	3.13 / 4.03
Inrush current		A	5	5
Max. current			24	15
Sound power level*1	Indoor	Cooling/Heating	63 / 63	63 / 63
	Outdoor	Cooling/Heating	70 / 70	70 / 70
Sound pressure level*1	Indoor	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	54 / 56	54 / 56
		Cooling (Hi/Me/L0/Ulo)	24.5 / 21.3 / 17.6/ 10.4	24.5 / 21.3 / 17.6/ 10.4
	Indoor	Heating (Hi/Me/L0/Ulo)	27.5 / 23.2 / 19.1/ 13.6	27.5 / 23.2 / 19.1/ 13.6
		Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	339 / 1,197 / 262	
	Outdoor		845 / 970 / 370	
Net weight	Indoor	kg	16.5	
	Outdoor		80	
Ref.piping size	Liquid/Gas		ømm	
Refrigerant line (one way) length			m	
Vertical height differences			m	
Outdoor operating temperature range		Cooling	°C	
		Heating	°C	
Air filter, Q'ty			Polypropylene net x2 (Washable)	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E	

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

R410A				Micro Inverter	Standard Inverter
Set model name				SRK200VSAPZR	SRK100VNP1ZR
				Twin	
Indoor unit			SRK100ZR-S x 2	SRK100ZR-S	
Outdoor unit			FDC200VSA	FDC100VNP	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz	1 Phase 220-240V, 50Hz / 220V, 60Hz	
Nominal cooling capacity (Min~Max)		kW	19.0 ( 5.2 ~ 22.4 )	10.0 ( 2.4 ~ 10.5 )	
Nominal heating capacity (Min~Max)		kW	22.4 ( 3.3 ~ 25.0 )	11.2 ( 3.2 ~ 11.5 )	
Power consumption	Cooling/Heating	kW	7.52 / 7.41	3.09 / 3.28	
EER/COP	Cooling/Heating		2.53 / 3.02	3.24 / 3.41	
Inrush current		A	5	14.4	
Max. current			20	21	
Sound power level*1	Indoor*3	Cooling/Heating	63 / 63	63 / 63	
	Outdoor	Cooling/Heating	72 / 74	70 / 74	
Sound pressure level*1	Indoor*3	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	
	Outdoor	Cooling/Heating	58 / 59	57 / 61	
Air flow	Indoor*3	Cooling (Hi/Me/L0/Ulo)	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6	
		Heating (Hi/Me/L0/Ulo)	27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1	
	Outdoor	Cooling/Heating	135 / 135	75 / 80	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	339 x 1,197 x 262	
	Outdoor			1,300 x 970 x 370	
Net weight	Indoor		kg	16.5	
	Outdoor			70	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")		
Refrigerant line (one way) length		m	Max.70		
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C	-15~50*2		
	Heating		-15~46*2		
Air filter, Q'ty			Polypropylene net x2 (Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E		

# FDE

## Indoor Unit Ceiling Suspended

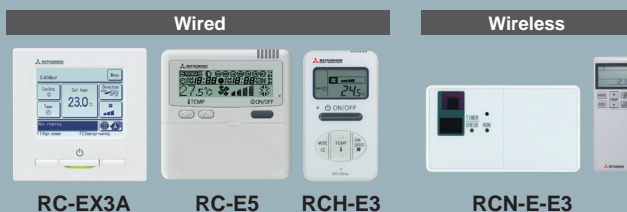


**New**

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



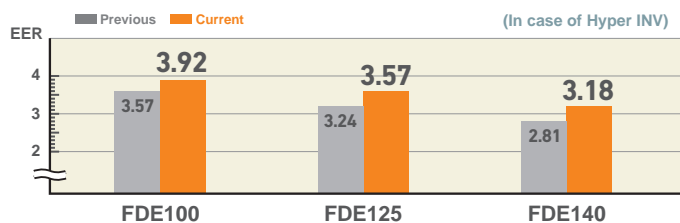
### Remote control (option)



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

## High Efficiency

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



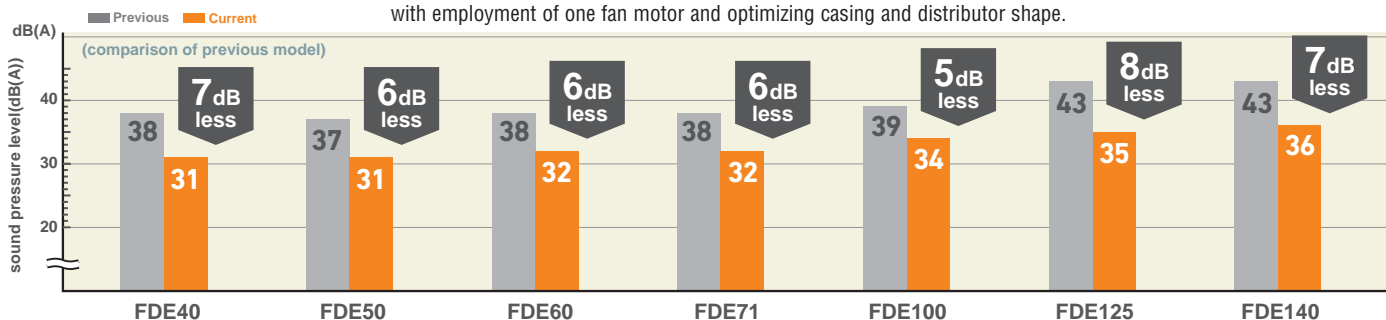
## Reduction of Weight

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

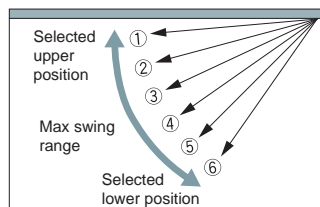
	Previous	Current	
60VH-71VG	37	33	4kg less!!
100-125-140VG	49	43	6kg less!!

## Quieter 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.



## Flap Control System

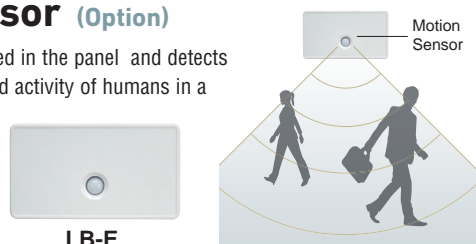


The flap can swing within the range of upper and lower flap position selected.

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

## Motion Sensor (Option)

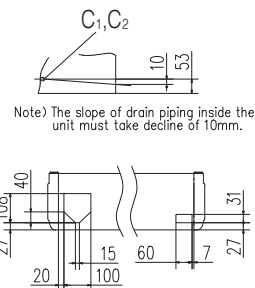
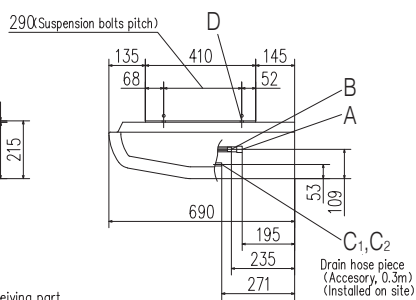
Motion sensor is equipped in the panel and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



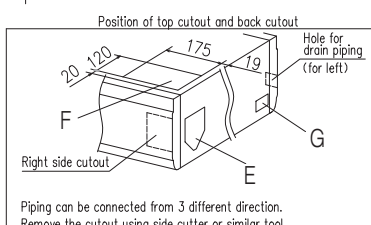
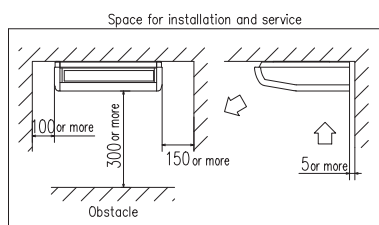




### Models FDE60VH, 71VG

[illegible]

Symbol		Content	
	Model	FDE60	FDE71
A	Gas piping	ø12.7 (1/2") (Flare)	ø15.88 (5/8") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)	ø9.52 (3/8") (Flare)
C 12	Drain piping	VP20 (I.D. 20, O.D. 0.26)	
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 4500 or more between the units when installing more than one.

Technical drawing of the 290XSuspension unit, showing front and side views with dimensions.

**Front View Dimensions:**

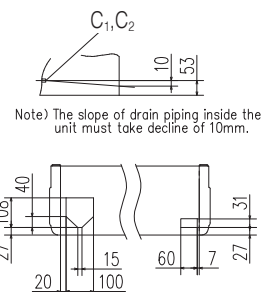
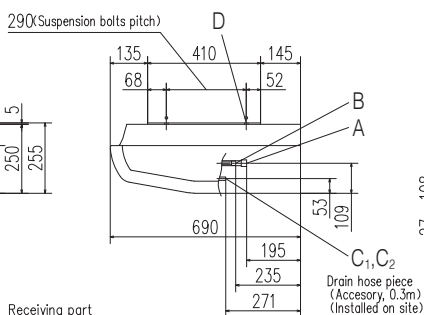
- Top width: 24 (left), 1572 (Suspension bolts pitch), 24 (right)
- Right side height: 5 (top), 173 (middle), 250 (bottom), 255 (total)
- Bottom width: 40 (left), 1540 (middle), 40 (right)
- Overall bottom width: 1620

**Side View Dimensions:**

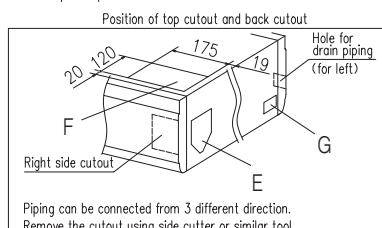
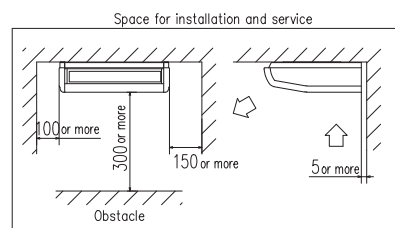
- Left side width: C<sub>2</sub> 76
- Right side width: 75 (top), 110 (middle), 135 (bottom)
- Right side height: 308
- Labels: A, C<sub>1</sub>, B

**Labels:**

- Air supply
- Receiving part
- Air return grille



Symbol	Content
A	Gas piping ø15.88 (5/8") (Flare)
B	Liquid piping ø9.52 (3/8") (Flare)
C 1,2	Drain piping VP20 (1.D.20, 0.D.26)
D	Hole for suspension bolt (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 5000 or more between the units when installing more than one.

## SPECIFICATIONS - FDE -

R32			HyperInverter		
Set model name			FDE40ZSXW1VH	FDE50ZSXW1VH	FDE60ZSXW1VH
Indoor unit			FDE40VH	FDE50VH	FDE60VH
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W1	SRC60ZSX-W1
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 ~ 7.1 )
Power consumption	Cooling/Heating	kW	1.02 / 1.10	1.43 / 1.46	1.51 / 1.86
EER/COP	Cooling/Heating		3.92 / 4.09	3.49 / 3.70	3.71 / 3.60
Inrush current		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60
	Outdoor	Cooling/Heating		63 / 62	65 / 65
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating		52 / 50	53 / 54
		Cooling (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	20 / 16 / 13 / 10
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	
		Cooling/Heating	39 / 30	41.5 / 39.0	
	Outdoor				
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	
	Outdoor			640 x 800(+71) x 290	
Net weight	Indoor		kg	28 45 33	
	Outdoor				
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	
Refrigerant line (one way) length			m	Max.30	
Vertical height differences	Outdoor is higher/lower		m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°C		-15~-46*2	
	Heating			-20~24	
Air filter, Q'ty				Pocket Plastic net x2(Washable)	
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3	

### NOTES:

The data are measured under the following conditions(ISO-T1,H1).

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

R410A			HyperInverter		
Set model name			FDE40ZSXVH	FDE50ZSXVH	FDE60ZSXVH
Indoor unit			FDE40VH	FDE50VH	FDE60VH
Outdoor unit			SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)			4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )
Power consumption	Cooling/Heating	kW	1.02 / 1.10	1.52 / 1.46	1.75 / 1.86
EER/COP	Cooling/Heating		3.92 / 4.09	3.29 / 3.70	3.20 / 3.60
Inrush current		A	5	5	5
Max. current			12	15	15
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52
		Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating	36 / 33	40 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690		210 x 1,320 x 690
	Outdoor		640 x 800(+71) x 290		
Net weight	Indoor		28		33
	Outdoor		45		
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length			Max.30		
m					
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°C	-15~46*2		
	Heating		-20~24		
Air filter, Q'ty			Pocket Plastic net x2(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3		

### NOTES:

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

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

## SPECIFICATIONS - FDE -

R410A			Hyper Inverter	
Set model name			FDE71VNXVG	FDE100VNXVG
Indoor unit			FDE71VG	FDE100VG
Outdoor unit			FDC71VNX	FDC100VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	
Nominal cooling capacity (Min~Max)			7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min~Max)			8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )
Power consumption			2.11 / 2.11	2.55 / 2.68
EER/COP			3.36 / 3.79	3.92 / 4.18
Inrush current			5	5
Max. current			17	24
Sound power level*1	Indoor	Cooling/Heating	60 / 60	64 / 64
	Outdoor	Cooling/Heating		
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 41 / 37 / 32	48 / 43 / 38 / 34
		Heating (P-Hi/Hi/Me/Lo)		
	Outdoor	Cooling/Heating	51 / 48	48 / 50
		Cooling (P-Hi/Hi/Me/Lo)		
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5
	Outdoor	Cooling/Heating		
Exterior dimensions			210 x 1,320 x 690	250 x 1,620 x 690
Net weight			33	43
Ref.piping size			9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			Max.50	Max.100
Vertical height differences			Max.30 / Max.15	
Outdoor operating temperature range			-15~43*2	
Air filter, Q'ty			Pocket Plastic net x2(Washable)	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3	

R410A			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)			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)			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			3.50 / 3.77	4.40 / 4.69	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69
EER/COP			3.57 / 3.71	3.18 / 3.41	3.92 / 4.18	3.57 / 3.71	3.18 / 3.41
Inrush current			5	5	5	5	5
Max. current			26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	64 / 64	65 / 65	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating					
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo)					
	Outdoor	Cooling/Heating	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
		Cooling (P-Hi/Hi/Me/Lo)					
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
	Outdoor	Cooling/Heating					
Exterior dimensions			250 x 1,620 x 690	1,300 x 970 x 370			
Net weight			43	105			
Ref.piping size			9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			Max.100				
Vertical height differences			Max.30 / Max.15				
Outdoor operating temperature range			-15~43*2				
Air filter, Q'ty			Pocket Plastic net x2(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3				

### NOTES:

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

The values are for simultaneous Multi operation.

R410A			HyperInverter				
Set model name			FDE71VNXPVH	FDE100VNXPVH	FDE125VNXPVH	FDE140VNXPVG	FDE140VNXTVH
			Twin				Triple
Indoor unit			FDE40VH x 2	FDE50VH x 2	FDE60VH x 2	FDE71VG x 2	FDE50VH x 3
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption			Cooling/Heating kW 2.05 / 2.35	3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP			Cooling/Heating 3.46 / 3.40	3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current			A 5	5	5	5	5
Max. current			17	24	26	26	26
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Indoor*3	Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	46 / 38 / 36 / 31
Air flow	Indoor*3	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50	49 / 52
	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	13 / 10 / 9 / 7
Exterior dimensions	Indoor	HeightsWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690	210 x 1,320 x 690	210 x 1,070 x 690
	Outdoor	HeightsWidthxDepth		750 x 880(+88) x 340	1,300 x 970 x 370	1,300 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor		kg	28	33	33	28
	Outdoor			60	105	105	105
Ref.piping size			ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max. 50			
Vertical height differences			m	Max.30 / Max.15			
Outdoor operating temperature range			°C	-15~43*2			
Air filter, Q'ty				-20~20			
Remote control (option)				Pocket plastic net x 2(Washable)			
				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3			

The values are for simultaneous Multi operation.

R410A			HyperInverter				
Set model name			FDE100VSXPVH	FDE125VSXPVH	FDE140VSXPVG	FDE140VSXTVH	
			Twin		Triple		
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VG x 2	FDE50VH x 3	
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	16.0 ( 4.0 ~ 20.0 )	
Power consumption	Cooling/Heating	kW	3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53	
EER/COP	Cooling/Heating		3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53	
Inrush current		A	5	5	5	5	
Max. current			15	15	15	15	
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	
	Outdoor			Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor			1,300 x 970 x 370		210 x 1,070 x 690	
Net weight	Indoor		kg	28		33	
	Outdoor			105		28	
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*2			
	Heating			-20~20			
Air filter, Q'ty				Pocket plastic net x 2(Washable)			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3			



## SPECIFICATIONS - FDE -

R410A				Micro Inverter						
Set model name				FDE100VNAV		FDE125VNAV		FDE140VNAV		
Indoor unit				FDE100VG		FDE125VG		FDE140VG		
Outdoor unit				FDC100VNA		FDC125VNA		FDC140VNA		
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz						
Nominal cooling capacity (Min~Max)				kW 10.0 ( 4.0 ~ 11.2 )		12.5 ( 5.0 ~ 14.0 )		13.6 ( 5.0 ~ 14.5 )		
Nominal heating capacity (Min~Max)				kW 11.2 ( 4.0 ~ 12.5 )		14.0 ( 4.0 ~ 16.0 )		15.5 ( 4.0 ~ 16.5 )		
Power consumption		Cooling/Heating		kW 2.85 / 2.70		4.45 / 3.74		5.21/ 4.42		
EER/COP		Cooling/Heating		3.51 / 4.15		2.81 / 3.74		2.61 / 3.51		
Inrush current				A	5		5		5	
Max. current					24		24		24	
Sound power level*1	Indoor	Cooling/Heating		dB(A)	64 / 64		64 / 64		65 / 65	
	Outdoor	Cooling/Heating			70 / 70		71 / 71		73 / 73	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		m³/min	48 / 43 / 38 / 34		48 / 45 / 40 / 35		49 / 45 / 40 / 36	
		Heating (P-Hi/Hi/Me/Lo)			48 / 43 / 38 / 34		48 / 45 / 40 / 35		49 / 45 / 40 / 36	
	Outdoor	Cooling/Heating			54 / 56		55/ 57		57 / 59	
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)		m³/min	32 / 26 / 21 / 16.5		32 / 29 / 23 / 17		34 / 29 / 23 / 18	
		Heating (P-Hi/Hi/Me/Lo)			32 / 26 / 21 / 16.5		32 / 29 / 23 / 17		34 / 29 / 23 / 18	
	Outdoor	Cooling/Heating			75 / 73		75 / 73		75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690						
	Outdoor			845 x 970 x 370						
Net weight	Indoor		kg	43						
	Outdoor			80						
Ref.piping size		Liquid/Gas		ømm 9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length				m Max.50						
Vertical height differences		Outdoor is higher/lower		m Max.50 / Max.15						
Outdoor operating temperature range		Cooling		°C	-15~50*2					
		Heating			-20~20					
Air filter, Q'ty				Pocket Plastic net x2(Washable)						
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3						

R410A			Micro Inverter		
Set model name			FDE100VSAVG	FDE125VSAVG	FDE140VSAVG
Indoor unit			FDE100VG	FDE125VG	FDE140VG
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	2.85 / 2.70	4.45 / 3.74	5.21 / 4.42
EER/COP	Cooling/Heating		3.51 / 4.15	2.81 / 3.74	2.61 / 3.51
Inrush current		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
	Outdoor	Cooling/Heating	54 / 56	55/ 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
		Heating (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690	
	Outdoor			845 x 970 x 370	
Net weight	Indoor		kg	43	
	Outdoor			82	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*2		
	Heating		-20~20		
Air filter, Q'ty			Pocket Plastic net x2(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3		

### NOTES:

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

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

\*3 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDE100VNAPVH	FDE125VNAPVH	FDE140VNAPVG
			Twin		
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VG x 2
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21
EER/COP	Cooling/Heating		3.21 / 3.75	3.00 / 3.95	2.87 / 3.68
Inrush current		A	5	5	5
Max. current			24	24	24
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	60 / 60	60 / 60
	Outdoor			Cooling/Heating	70 / 70
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 10 / 9 / 7	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	
	Outdoor			845 x 970 x 370	
Net weight	Indoor		kg	28	
	Outdoor			33	
Ref.piping size	Liquid/Gas	ømm	80		
Refrigerant line (one way) length		m	9.52(3/8") / 15.88(5/8")		
			Max. 50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*2		
	Heating		-20~20		
Air filter, Q'ty			Pocket plastic net x 2(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3		

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDE140VNATVH	FDE100VSAPVH	FDE125VSAPVH
			Triple	Twin	
Indoor unit			FDE50VH x 3	FDE50VH x 2	FDE60VH x 2
Outdoor unit			FDC140VNA	FDC100VSA	FDC125VSA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)		kW	13.6 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )
Nominal heating capacity (Min~Max)		kW	15.5 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )
Power consumption	Cooling/Heating	kW	4.74 / 4.21	3.12 / 2.99	4.16 / 3.54
EER/COP	Cooling/Heating		2.87 / 3.68	3.21 / 3.75	3.00 / 3.95
Inrush current		A	5	5	5
Max. current			24	15	15
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor		Cooling/Heating	73 / 73	70 / 70
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Heating (P-Hi/Hi/Me/Lo)				
	Outdoor	Cooling/Heating	57 / 59	54 / 56	55 / 57
Air flow	Indoor* <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Heating (P-Hi/Hi/Me/Lo)				
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,070 x 690		210 x 1,320 x 690
	Outdoor		845 x 970 x 370		
Net weight	Indoor		28		33
	Outdoor		80		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max. 50		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15-50* <sup>2</sup>		
	Heating		-20-20		
Air filter, Q'ty			Pocket plastic net x 2(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3		

## SPECIFICATIONS - FDE -

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDE140VSAPVG	FDE200VSAPVG	FDE250VSAPVG
			Twin		
Indoor unit			FDE71VG x 2	FDE100VG x 2	FDE125VG x 2
Outdoor unit			FDC140VSA	FDC200VSA	FDC250VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)		kW	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW	4.74 / 4.21	6.34 / 6.10	8.52 / 7.54
EER/COP	Cooling/Heating		2.87 / 3.68	3.00 / 3.67	2.82 / 3.58
Inrush current		A	5	5	5
Max. current			15	20	21
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	60 / 60	64 / 64	64 / 64
	Outdoor		Cooling/Heating	73 / 73	72 / 74
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 45 / 40 / 35
	Outdoor		Cooling/Heating	47 / 41 / 37 / 32	48 / 43 / 38 / 34
Air flow	Indoor* <sup>3</sup>	Cooling/Heating	57 / 59	58 / 59	59 / 62
		Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5 32 / 26 / 21 / 16.5	32 / 29 / 23 / 17 32 / 29 / 23 / 17
	Outdoor	Cooling/Heating	m³/min	75 / 73	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,320 x 690 845 x 970 x 370	
	Outdoor		250 x 1,620 x 690 1,300 x 970 x 370		
Net weight	Indoor		kg	43	
	Outdoor		143		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length		m	Max.50	Max.70	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C	-15-50* <sup>2</sup>		
	Heating		-20-20		
Air filter, Q'ty			Pocket plastic net x 2(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3		

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDE140VSATVH	FDE200VSATVG	
			Triple		
Indoor unit			FDE50VH x 3	FDE71VG x 3	
Outdoor unit			FDC140VSA	FDC200VSA	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	
Nominal heating capacity (Min~Max)		kW	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	
Power consumption	Cooling/Heating	kW	4.74 / 4.21	6.33 / 5.94	
EER/COP	Cooling/Heating		2.87 / 3.68	3.00 / 3.77	
Inrush current		A	5	5	
Max. current			15	20	
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	dB(A)	60 / 60	
	Outdoor			73 / 73	
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	
	Outdoor	Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	
Air flow	Indoor* <sup>3</sup>	Cooling/Heating	m³/min	57 / 59	
		Cooling (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	75 / 73	
	Outdoor			135 / 135	
Net weight	Indoor		kg	210 x 1,070 x 690	
	Outdoor			845 x 970 x 370	
Ref.piping size	Liquid/Gas	ømm	m	28	
	Refrigerant line (one way) length			82	
Vertical height differences	Outdoor is higher/lower	m		115	
Outdoor operating temperature range	Cooling	°C		9.52(3/8") / 15.88(5/8")	
	Heating			9.52(3/8") / 22.22(7/8")	
Air filter, Q'ty				Max.50	
Remote control (option)				Max.30 / Max.15	
			-15~50* <sup>2</sup>		
			-20~20		
			-15~20		
			Pocket plastic net x 2(Washable)		
			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3		

### NOTES:

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

The values are for simultaneous Multi operation.

R410A			Micro Inverter		
Set model name			FDE200VSADVH	FDE250VSADVH	
			Double Twin		
Indoor unit			FDE50VH x 4	FDE60VH x 4	
Outdoor unit			FDC200VSA	FDC250VSA	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	
Nominal heating capacity (Min~Max)		kW	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	
Power consumption	Cooling/Heating	kW	6.90 / 7.10	8.00 / 7.02	
EER/COP	Cooling/Heating		2.75 / 3.15	3.00 / 3.85	
Inrush current		A	5	5	
Max. current			20	21	
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	60 / 60	60 / 60
	Outdoor			Cooling/Heating	72 / 74
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	46 / 38 / 36 / 31	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating		58 / 59	59 / 62
	Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7		20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		135 / 135	143 / 151
	Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690
Outdoor		1,300 x 970 x 370			1,505 x 970 x 370
Net weight	Indoor		kg	28	33
	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		m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C	-15~50*2		
	Heating		-15~20		
Air filter, Q'ty			Pocket plastic net x 2(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3		

R410A			Standard Inverter		
Set model name			FDE71VNPVG	FDE90VNP1VG	FDE100VNP1VG
Indoor unit			FDE71VG	FDE100VG	FDE100VG
Outdoor unit			FDC71VNP	FDC90VNP1	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	kW	2.50 / 1.96	2.75 / 2.22	2.66 / 2.94
EER/COP	Cooling/Heating		2.84 / 3.62	3.27 / 4.05	3.76 / 3.81
Inrush current		A	5	5	5
Max. current			14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	60 / 60	64 / 64	64 / 64
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 43 / 38 / 34
		Heating (P-Hi/Hi/Me/Lo)	47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 43 / 38 / 34
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
	Indoor	Cooling (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 26 / 21 / 16.5
Air flow		Heating (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 26 / 21 / 16.5
	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	210 x 1,320 x 690	250 x 1,620 x 690	
	Outdoor		640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		33	43	
	Outdoor		45	57	70
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			Max.30		
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°C	-15~46*2		
	Heating		-15~20		
Air filter, Q'ty			Pocket Plastic net x2(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3		



# FDF

## Indoor Unit Floor Standing



FDF 71/100/125/140



### Remote control (option)

#### Wireless



RCN-KIT4-E2

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

## Wide and Powerful Air Flow

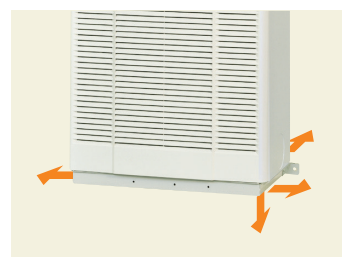


## Easy Transportation and Installation Workability



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.

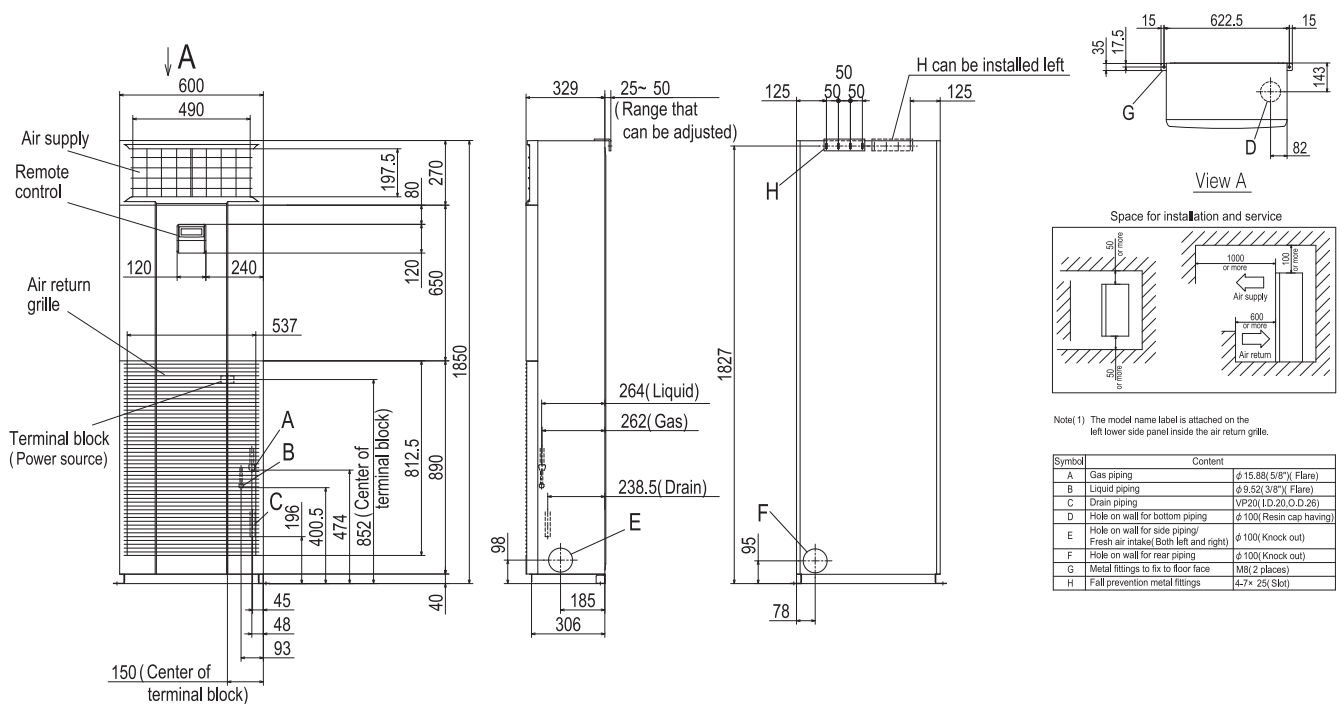


## OUTDOOR UNIT

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

Micro Inverter				Standard Inverter		
FDC	100~140VN(S)A	200VSA	250VSA	71VNP	90VNP1	100VNP
model						
Chargeless	30m			15m		
Height x Width x Depth (mm)	845 x 970 x 370	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

## DIMENSIONS (Unit:mm) - FDF -



## SPECIFICATIONS - FDF -

R410A			HyperInverter			
Set model name			FDF71VNXXVD1	FDF100VNXXVD2	FDF125VNXXVD	FDF140VNXXVD
Indoor unit			FDF71VD1	FDF100VD2	FDF125VD	FDF140VD
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	2.21 / 2.21	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
Inrush current		A	5	5	5	5
Max. current			17	24	26	26
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	73 / 73
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Indoor	Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Air flow	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
	Indoor	Cooling (P-Hi/Hi/Me/Lo)	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Exterior dimensions	Indoor	Heating (P-Hi/Hi/Me/Lo)	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
Net weight	Indoor	HeightxWidthxDepth	1,850 x 600 x 320			
	Outdoor		750 x 880(+88) x 340	1,300 x 970 x 370		
Ref.piping size	Indoor		kg 49	52		
	Outdoor		60	105		
Refrigerant line (one way) length		ømm	9.52(3/8") / 15.88(5/8")			
Vertical height differences		m	Max.50	Max.100		
Outdoor operating temperature range		°C	Max.30 / Max.15			
Air filter, Q'ty			-15~43*2			
Remote control			-20~20			
			Plastic net x 1(washable)			
			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

### NOTES:

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

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

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

\*2 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

## SPECIFICATIONS - FDF -

R410A			HyperInverter			
Set model name			FDF100VSXVD2	FDF125VSXVD	FDF140VSXVD	
Indoor unit			FDF100VD2	FDF125VD	FDF140VD	
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	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69	
EER/COP	Cooling/Heating		3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	
Inrush current		A	5	5	5	
Max. current			15	15	15	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Air flow	Outdoor	Cooling/Heating	m³/min	48 / 50	48 / 50	49 / 52
		Cooling (P-Hi/Hi/Me/Lo)		29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Heating (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19		29 / 26 / 23 / 19	29 / 26 / 23 / 19	
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320		
	Outdoor			1,300 x 970 x 370		
Net weight	Indoor		kg	52		
	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*2		
	Heating			-20~20		
Air filter, Q'ty				Plastic net x 1(washable)		
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

The values are for simultaneous Multi operation.

R410A			HyperInverter	
Set model name			FDF140VNX PVD1	FDF140VSX PVD1
			Twin	
Indoor unit			FDF71VD1 x 2	FDF71VD1 x 2
Outdoor unit			FDC140VNX	FDC140VSX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V 60Hz
Nominal cooling capacity (Min~Max)		kW	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating	kW	4.83 / 4.97	4.83/ 4.97
EER/COP	Cooling/Heating		2.90 / 3.22	2.90 / 3.22
Inrush current		A	5	5
Max. current			26	15
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	61 / 61
	Outdoor			Cooling/Heating
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	42 / 39 / 35 / 33
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33
	Outdoor	Cooling/Heating		49 / 52
		Cooling (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12
Air flow	Indoor*3	Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	
		Cooling/Heating	100 / 100	
	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		m	Max.30 / Max.15
Outdoor operating temperature range	Cooling	°C	-15~-43*2	
	Heating		-20~20	
Air filter, Q'ty		Plastic net x 1(washable)		
Remote control		wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

### NOTES:

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

R410A			Micro Inverter		
Set model name			FDF100VNAVD2	FDF125VNAVD	FDF140VNAVD
Indoor unit			FDF100VD2	FDF125VD	FDF140VD
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 13.0 )	13.0 ( 5.0 ~ 13.0 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	3.12 / 2.94	4.65 / 4.14	5.02 / 4.98
EER/COP	Cooling/Heating		3.21 / 3.81	2.69 / 3.38	2.59 / 3.11
Inrush current		A	5	5	5
Max. current			24	24	24
Sound power level*1	Indoor	Cooling/Heating	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320	
	Outdoor			845 x 970 x 370	
Net weight	Indoor		kg	52	
	Outdoor			80	
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.50	
Vertical height differences	Outdoor is higher/lower		m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling		°C	-15~50*2	
	Heating			-20~20	
Air filter, Q'ty			Plastic net x 1(Washable)		
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

R410A			Micro Inverter		
Set model name			FDF100VSAVD2	FDF125VSAVD	FDF140VSAVD
Indoor unit			FDF100VD2	FDF125VD	FDF140VD
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	kW	3.12 / 2.94	4.65/ 4.14	5.42 / 4.98
EER/COP	Cooling/Heating		3.21 / 3.81	2.69 / 3.38	2.51 / 3.11
Inrush current		A	5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 320		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		52		
	Outdoor		82		
Ref.piping size	Liquid/Gas		ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m Max.50		
Vertical height differences	Outdoor is higher/lower		m Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°C	-15~50*2		
	Heating		-20~20		
Air filter, Q'ty			Plastic net x 1(Washable)		
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		



## SPECIFICATIONS - FDF -

R410A			Micro Inverter			
Set model name			FDF140VNAPVD1	FDF140VSAPVD1	FDF200VSAPVD2	FDF250VSAPVD
Indoor unit			FDF71VD1 x 2	FDF71VD1 x 2	FDF100VD2 x 2	FDF125VD x 2
Outdoor unit			FDC140VNA	FDC140VSA	FDC200VSA	FDC250VSA
Power source			Twin			
Nominal cooling capacity (Min~Max)			1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal heating capacity (Min~Max)			13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Power consumption			15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
EER/COP			5.15 / 4.35	5.15 / 4.35	6.74 / 6.42	9.15 / 8.49
Inrush current			2.64 / 3.56	2.64 / 3.56	2.82 / 3.49	2.62 / 3.18
Max. current			5	5	5	5
Sound power level*1			24	15	20	21
Sound pressure level*1			61 / 61	61 / 61	65 / 65	73 / 73
Air flow			73 / 73	73 / 73	72 / 74	73 / 75
Exterior dimensions			42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Net weight			42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Ref.piping size			57 / 59	57 / 59	58 / 59	59 / 62
Refrigerant line (one way) length			18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Vertical height differences			18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Outdoor operating temperature range			75 / 73	75 / 73	135 / 135	143 / 151
Air filter, Q'ty			1,850 x 600 x 320			
Remote control			845 x 970 x 370			
			49			
			80			
			82			
			115			
			143			
			9.52(3/8") / 15.88(5/8")			
			Max.50			
			Max.50 / Max.15			
			-15~50*2			
			-20~20			
			-15~20			
			Plastic net x 1 (washable)			
			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

R410A			Standard Inverter		
Set model name			FDF71VNPVD1	FDF90VNP1VD2	FDF100VNP1VD2
Indoor unit			FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit			FDC71VNP	FDC90VNP1	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)			7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption			2.67 / 2.04	2.81 / 2.25	3.19 / 3.09
EER/COP			2.66 / 3.48	3.20 / 4.00	3.13 / 3.62
Inrush current			5	5	5
Max. current			14.5	18.0	21.0
Sound power level*1			61 / 61	65 / 65	65 / 65
Sound pressure level*1			67 / 67	69 / 69	70 / 70
Air flow			42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Exterior dimensions			42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
Net weight			54 / 54	57 / 55	57 / 61
Ref.piping size			20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Refrigerant line (one way) length			20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Vertical height differences			36 / 36	63 / 49.5	75 / 79
Outdoor operating temperature range			1,850 x 600 x 320		
Air filter, Q'ty			640 x 800(+71) x 290		
Remote control			750 x 880(+88) x 340		
			845 x 970 x 370		
			49		
			45		
			57		
			70		
			6.35(1/4") / 12.7(1/2")		
			Max.23		
			Max.20 / Max.20		
			Max.30		
			-15~46*2		
			-15~20		
			Plastic net x1 (Washable)		
			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

### NOTES:

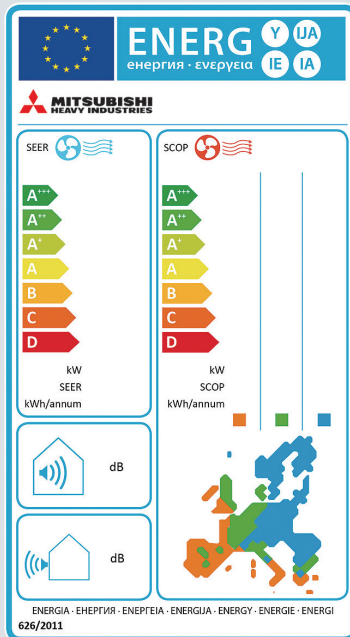
The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher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

# Energy Efficient and Environmentally Conscious

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

## ENERGY LABEL

SEER and SCOP is defined in European regulations listed below.



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

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

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

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

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

**SEER - Seasonal Efficiency Ratio (value in cooling)**  
**SCOP - Seasonal Coefficient of Performance (value in heating)**

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

## Employment of lead-free solder

### Adapted to RoHS directive

#### RoHS:Restriction of Hazardous substances

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

## Employment of R32 R410A

All models use refrigerant R32 or 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		FDT40VH	FDT50VH	FDT60VH	FDT40VH	FDT50VH	FDT60VH	FDT71VG
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W1	SRC60ZSX-W1	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX
Energy class (cooling/heating)		A++/A++	A++/A++	A++/A++	A++/A+	A++/A++	A++/A++	A+/A+
SEER		8.63	7.93	8.74	8.51	7.82	8.26	5.72
SCOP (Average climate)		4.62	4.63	5.00	4.47	4.61	5.00	4.34
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.9	5.0/4.0	5.6/5.2	4.0/3.8	5.0/4.1	5.6/4.7	7.1/5.8
Annual electricity consumption (cooling/heating)	kWh/a	163/1167	221/1210	225/1455	165/1192	224/1246	238/1316	435/1873
Refrigerant	GWP	R32/675			R410A/1975			
	charge	kg/TCO <sub>2</sub> e			1.5/3.132			2.95/6.160
Designated heating season		Average						

Indoor unit		FDT100VG	FDT100VG	FDT40VHx2	FDT50VHx2	FDT50VHx2	FDT100VG	FDT100VG
Outdoor unit		FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA
Energy class (cooling/heating)		A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+
SEER		5.90	5.90	5.77	5.92	5.92	6.78	6.78
SCOP (Average climate)		4.32	4.32	4.34	4.16	4.16	4.52	4.52
Pdesign (cooling/heating (@-10°C))	kW	10.0/11.2	10.0/11.2	7.1/5.8	10.0/11.2	10.0/11.2	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)	kWh/a	594/3628	594/3627	431/1873	592/3772	592/3772	516/2633	516/2633
Refrigerant	GWP	R410A/1975						
	charge							
Designated heating season	kgTCO <sub>2</sub> E	4.5/9.396		2.95/6.160	4.5/9.396		3.8/7.934	
		Average						

Indoor unit			FDT50VHx2	FDT50VHx2	FDT71VG	FDT100VG	FDT100VG
Outdoor unit			FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)			A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER			6.89	6.89	6.14	6.78	6.78
SCOP (Average climate)			4.47	4.47	4.27	4.12	4.53
Pdesign (cooling/heating (@-10°C))		kW	10.0/8.5	10.0/8.5	7.1/5.7	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)		kWh/a	508/2665	508/2665	405/1867	465/2756	517/2506
Refrigerant		GWP	R410A/1975				
		charge	kg/TCO <sub>2</sub> E				
Designated heating season			3.8/7.934		1.6/3.341		2.1/4.385
			Average				

- Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
- SEER/SCOP are based on EN14825:2016 and Commission regulation(EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".
- "tonne(s) of CO<sub>2</sub> equivalent" means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

# Energy Efficient and Environmentally Conscious

Indoor unit		FDTc40VH	FDTc50VH	FDTc60VH	FDTc40VH	FDTc50VH	FDTc60VH
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W1	SRC60ZSX-W1	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER		6.94	6.52	6.45	6.93	6.49	6.39
SCoP (Average climate)		4.37	4.30	4.10	4.37	4.30	4.09
Pdesign (cooling/heating (@-10°C))	kW	4.0/4.0	5.0/4.3	5.6/5.1	4.0/4.0	5.0/4.3	5.6/5.4
Annual electricity consumption (cooling/heating)	kWh/a	202/1283	269/1401	304/1744	202/1281	270/1402	307/1848
Refrigerant	GWP	R32/675			R410A/1975		
	charge kg/TCO <sub>2</sub> e	1.30/0.878			1.5/3.132		
Designated heating season		Average					

Indoor unit		FDTc40VHx2	FDTc50VHx2	FDTc50VHx2	FDTc50VHx2	FDTc50VHx2
Outdoor unit		FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA
Energy class (cooling/heating)		A/A+	A/A	A/A	A+/A+	A+/A+
SEER		5.50	5.56	5.56	6.00	6.00
SCoP (Average climate)		4.05	3.87	3.87	4.38	4.38
Pdesign (cooling/heating (@-10°C))	kW	7.1/6.0	10.0/10.8	10.0/10.8	10.0/8.4	10.0/8.4
Annual electricity consumption (cooling/heating)	kWh/a	453/2077	630/3910	630/3910	584/2682	584/2682
Refrigerant	GWP	R410A/1975				
	charge kg/TCO <sub>2</sub> e	2.95/6.160	4.5/9.396		3.8/7.934	
Designated heating season		Average				

Indoor unit		FDU71VF1	FDU100VF2	FDU100VF2	FDU100VF2	FDU100VF2	FDU71VF1	FDU100VF2	FDU100VF2
Outdoor unit		FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)		A/A	A/A+	A/A+	A++/A+	A++/A+	A+/A+	A++/A	A++/A+
SEER		5.24	5.22	5.19	6.11	6.11	5.73	6.56	6.36
SCoP (Average climate)		3.90	4.10	4.10	4.19	4.19	4.00	3.98	4.13
Pdesign (cooling/heating (@-10°C))	kW	7.1/7.0	10.0/13.0	10.0/13.0	10.0/8.5	10.0/8.5	7.1/5.7	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	475/2513	670/4437	675/4441	573/2843	573/2843	434/1995	480/2848	551/2746
Refrigerant	GWP	R410A/1975							
	charge kg/TCO <sub>2</sub> e	2.95/6.160	4.5/9.396		3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season		Average							

Indoor unit		FDUM40VH	FDUM50VH	FDUM60VH	FDUM40VH	FDUM50VH	FDUM60VH	FDUM71VF1
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W1	SRC60ZSX-W1	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX
Energy class (cooling/heating)		A++/A	A+/A	A++/A+	A++/A+	A+/A+	A++/A+	A/A
SEER		6.11	5.82	6.43	6.01	5.68	6.42	5.24
SCOP (Average climate)		3.81	3.89	4.37	4.15	4.36	4.37	3.90
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.0	5.0/3.7	5.6/4.7	4.0/3.5	5.0/4.3	5.6/5.4	7.1/7.0
Annual electricity consumption (cooling/heating)	kWh/a	230/1102	301/1332	305/1508	233/1182	309/1380	306/1731	475/2513
Refrigerant	GWP	R32/675				R410A/1975		
	charge kg/CO <sub>2</sub> e	1.30/0.878		1.5/3.132			2.95/6.160	
Designated heating season		Average						

Indoor unit		FDUM100VF2	FDUM100VF2	FDUM40VHx2	FDUM50VHx2	FDUM50VHx2	FDUM100VF2	FDUM100VF2
Outdoor unit		FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA
Energy class (cooling/heating)		A/A+	A/A+	A+/A+	A/A	A/A	A++/A+	A++/A+
SEER		5.22	5.19	5.61	5.14	5.11	6.11	6.11
SCOP (Average climate)		4.10	4.10	4.05	3.88	3.87	4.19	4.19
Pdesign (cooling/heating (@-10°C))	kW	10.0/13.0	10.0/13.0	7.1/7.0	10.0/10.0	10.0/10.0	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)	kWh/a	670/4437	675/4441	444/2419	681/3606	685/3618	573/2843	573/2843
Refrigerant	GWP	R410A/1975						
	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		FDUM50VHx2	FDUM50VHx2	FDUM71VF1	FDUM100VF2	FDUM100VF2
Outdoor unit		FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)		A/A	A/A	A+/A+	A++/A	A++/A+
SEER		5.50	5.50	5.73	6.56	6.36
SCoP (Average climate)		3.94	3.94	4.00	3.98	4.13
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.1/5.7	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	637/3024	637/3024	434/1995	480/2848	551/2746
Refrigerant	GWP	R410A/1975				
	charge kg/TCO <sub>2</sub> e	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season		Average				

Indoor unit		SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK100ZR-S	SRK100ZR-S	SRK100ZR-S
Outdoor unit		FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	FDC100VNP
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER		6.11	6.11	6.26	6.26	6.60
SCOP (Average climate)		4.16	4.16	4.33	4.33	4.40
Pdesign (cooling/heating (@-10°C))	kW	10.0/10.4	10.0/10.4	10.0/8.5	10.0/8.5	10.0/7.2
Annual electricity consumption (cooling/heating)	kWh/a	574/3504	574/3504	560/2750	560/2750	531/2289
Refrigerant	GWP	R410A/1975				
	charge kg/CO <sub>2</sub> e	4.5/9.396		3.8/7.934		2.55/5.324
Designated heating season		Average				

Indoor unit		FDE40VH	FDE50VH	FDE60VH	FDE40VH	FDE50VH	FDE60VH	FDE71VG
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W1	SRC60ZSX-W1	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A++/A	A++/A	A++/A+	B/A+
SEER		6.46	6.15	6.72	6.46	6.10	6.72	4.87
SCOP (Average climate)		4.02	4.07	4.41	3.93	3.92	4.08	4.00
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.0	5.0/3.8	5.6/4.5	4.0/3.0	5.0/3.8	5.6/4.3	7.1/6.0
Annual electricity consumption (cooling/heating)	kWh/a	217/1045	285/1307	292/1430	217/1070	288/1359	292/1476	511/2102
Refrigerant	GWP	R32/675			R410A/1975			
	charge kg/TCO <sub>2</sub> E	1.30/0.878			1.5/3.132			2.95/6.160
Designated heating season		Average						

Indoor unit		FDE100VG	FDE100VG	FDE40VHx2	FDE50VHx2	FDE50VHx2	FDE100VG	FDE100VG
Outdoor unit		FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA
Energy class (cooling/heating)		A+/A+	A+/A+	A/A+	A/A	A/A	A++/A+	A++ /A+
SEER		5.89	5.84	5.26	5.53	5.49	6.35	6.35
SCOP (Average climate)		4.18	4.17	4.09	3.94	3.94	4.31	4.31
Pdesign (cooling/heating (@-10°C))		kW	10.0/11.2	10.0/11.2	7.1/6.0	10.0/10.8	10.0/10.8	10.0/8.5
Annual electricity consumption (cooling/heating)		kWh/a	595/3754	599/3758	473/2056	634/3840	638/3841	552/2762
Refrigerant		GWP	R410A/1975					
		charge kgTCO <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		FDE50VHx2	FDE50VHx2	FDE71VG	FDE100VG	FDE100VG
Outdoor unit		FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)		A+/A+	A+/A+	A++/A+	A++/A+	A++/A+
SEER		5.71	5.71	6.35	6.63	6.73
SCOP (Average climate)		4.10	4.10	4.22	4.25	4.44
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.1/5.8	9.0/8.2	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	613/2905	613/2905	392/1925	475/2704	521/2556
Refrigerant	GWP	R410A/1975				
	charge kg/TCO <sub>2</sub> E	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season		Average				

Indoor unit		FDF71VD1	FDF100VD2	FDF100VD2	FDF100VD2	FDF100VD2	FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit		FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)		B/A	A/A	A/A	A+/A+	A+/A+	A/A	A+/A+	A/A
SEER		4.80	5.20	5.17	5.70	5.70	5.25	5.69	5.41
SCOP (Average climate)		3.81	3.80	3.80	4.00	4.00	3.91	4.01	3.94
Pdesign (cooling/heating (@-10°C))	kW	7.1/6.7	10.0/13.0	10.0/13.0	10.0/8.5	10.0/8.5	7.1/5.5	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	518/2464	673/4792	678/4795	614/2978	614/2978	474/1972	554/2825	647/2875
Refrigerant	GWP	R410A/1975							
	charge kgTCO <sub>2</sub> E	2.95/6.160	4.5/9.396		3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season		Average							

- Refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
- SEER/SCOP are based on EN14825.2016 and Commission regulation(EU) No.2016/2281. Temperature conditions for calculating SCOP are based on 'Average climate'.
- 'tonne(s) of CO<sub>2</sub> equivalent' means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

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

No.2016/2281: requirement for air-heating products, cooling products, high temperature process chillers and fan coil units.Seasonal efficiency is the new way of rating the true efficiency of heating and cooling products over an entire year.

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

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

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

Indoor unit	FDU125VF	FDU140VF	FDU125VF	FDU140VF	FDU125VF	FDU140VF	FDU125VF	FDU140VF	FDU200VG	FDU250VG
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA
SEER	5.34	5.22	5.49	5.36	5.26	5.08	5.26	5.08	5.06	4.82
SCOP (Average climate)	3.87	3.85	3.91	3.88	4.13	4.01	4.13	4.01	3.52	3.51

Indoor unit	FDUM125VF	FDUM140VF	FDUM125VF	FDUM140VF	FDUM125VF	FDUM140VF	FDUM125VF	FDUM140VF
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	5.34	5.22	5.49	5.36	5.26	5.08	5.26	5.08
SCOP (Average climate)	3.87	3.85	3.91	3.88	4.13	4.01	4.13	4.01

Indoor unit	FDE125VG	FDE140VG	FDE125VG	FDE140VG	FDE125VG	FDE140VG	FDE125VG	FDE140VG
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	5.56	5.41	5.74	5.56	6.03	5.76	6.03	5.76
SCOP (Average climate)	3.71	3.66	3.66	3.62	4.30	4.15	4.30	4.15

Indoor unit	FDF125VD	FDF140VD	FDF125VD	FDF140VD	FDF125VD	FDF140VD	FDF125VD	FDF140VD
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	4.97	4.80	5.11	4.94	5.36	5.09	5.36	5.03
SCOP (Average climate)	3.60	3.56	3.60	3.60	3.96	4.16	3.96	4.16

# Control Systems

## Remote Control line up

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

### Wired remote control

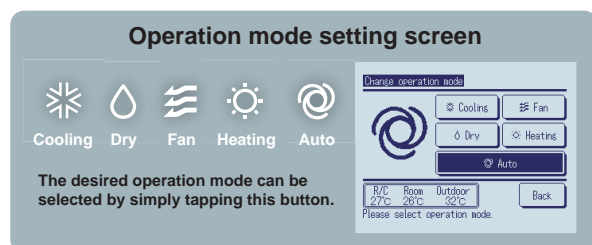
option

## RC-EX3A

Easy touch and Easy view with full dot Liquid Crystal display

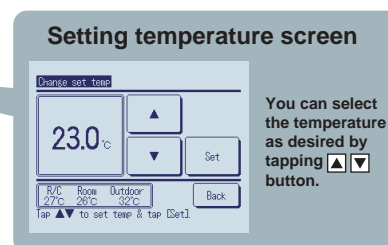
### User friendly

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



### Easy view

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



### High power operation

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

### Run / Stop

### Energy-saving operation

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

## Main functions

	Function name	Description
Economy & Timer	<b>Energy-saving operation</b>	Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.
	<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>Set temperature auto return</b>	The temperature automatically returns to the previously set temperature.
	<b>Set ON timer by hour</b>	When the set time elapses, the air conditioner starts.
	<b>Set OFF timer by hour</b>	When the set time elapses, the air conditioner stops.
	<b>Set ON timer by clock</b>	The air conditioner starts at the set time.
	<b>Set OFF timer by clock</b>	The air conditioner stops at the set time.
	<b>Weekly timer</b>	On or Off timer can be set on a weekly basis.
	<b>Peak-cut timer</b>	Capacity control can be set by using peak cut function on RC-EX3A for better energy saving. Five-step capacity control is available.
	<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.
Comfort	<b>Big LCD &amp; Touch screen panel</b>	Large 3.8 inch screen has resulted in improved visibility and operability.
	<b>Easy modification of individual flap control</b>	User can visually confirm and set the direction of louvers using the visual display on the remote control.
	<b>Automatic fan speed *1</b>	The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature.
	<b>Temp increment setting</b>	Temperature increment for the change of the set temp can be changed.
	<b>Silent mode</b>	Set the period of time to operate the Outdoor unit with prioritizing the quietness.

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

	Function name	Description
Convenience	<b>Function switch *1</b>	The function switch allows user to select and set two functions among available functions.
	<b>Favourite setting *1</b>	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.
	<b>Adjusting Brightness of the operation lamp</b>	The brightness of the background light can be adjusted by 10 stages.
	<b>LCD contrast setting</b>	This function allows user to adjust LCD display contrast.
	<b>High power operation</b>	High Power Mode increases the unit operating ability for 15 minutes to quickly adjust the room temperature to a comfortable level.
	<b>Back light setting</b>	This convenient function allows user to see controls under low light conditions.
	<b>Administrator settings</b>	This function only allows specific individuals to operate the unit.
	<b>Setting temp range</b>	Limited range of setting temperature in the heating or the cooling operation can be selected.
	<b>External Input / Output Function</b>	The external input/output of indoor unit by remote controller can set input/output based on user needs.
	<b>Select the language</b>	Set the language to be displayed on the remote control.
Service	<b>USB connection (mini-B)</b>	This function allows batch input of schedule timer settings and other settings involving a large amount of data.
	<b>Error code display</b>	This function allows user to check information displayed when abnormal function of the unit occurs.
	<b>Operation data display</b>	Displays various types of air conditioner operation data in real time.
	<b>Contact company display</b>	Address of the service contact is displayed.
	<b>Filter sign</b>	Announces the due time for cleaning of the air filter.
	<b>Static pressure adjustment</b>	Allows user to adjust duct static pressure using the remote control.
	<b>Backup Control</b>	Allows for rotation control, fault backup control, and capacity backup control.



# Remote Control line up Wired / Wireless

## Wired remote control

option

### RC-E5

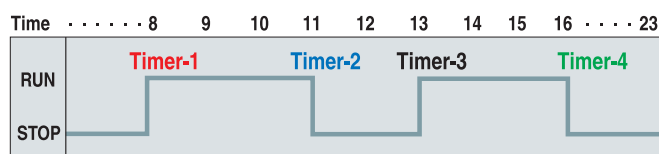


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

#### 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.



#### Adjustable set temperature ranges

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

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

## Simple remote control

option

### RCH-E3 (wired)



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

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

#### Up to 16 units

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

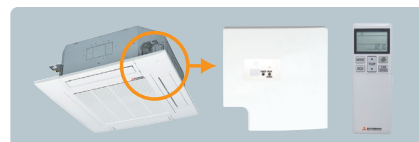
#### AUTO restart

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

## Wireless remote control

option

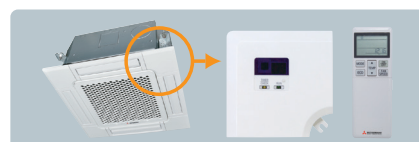
### RCN-T-5AW-E2



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

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

### RCN-TC-5AW-E2



### RCN-KIT4-E2



### RCN-E-E3



## Thermistor

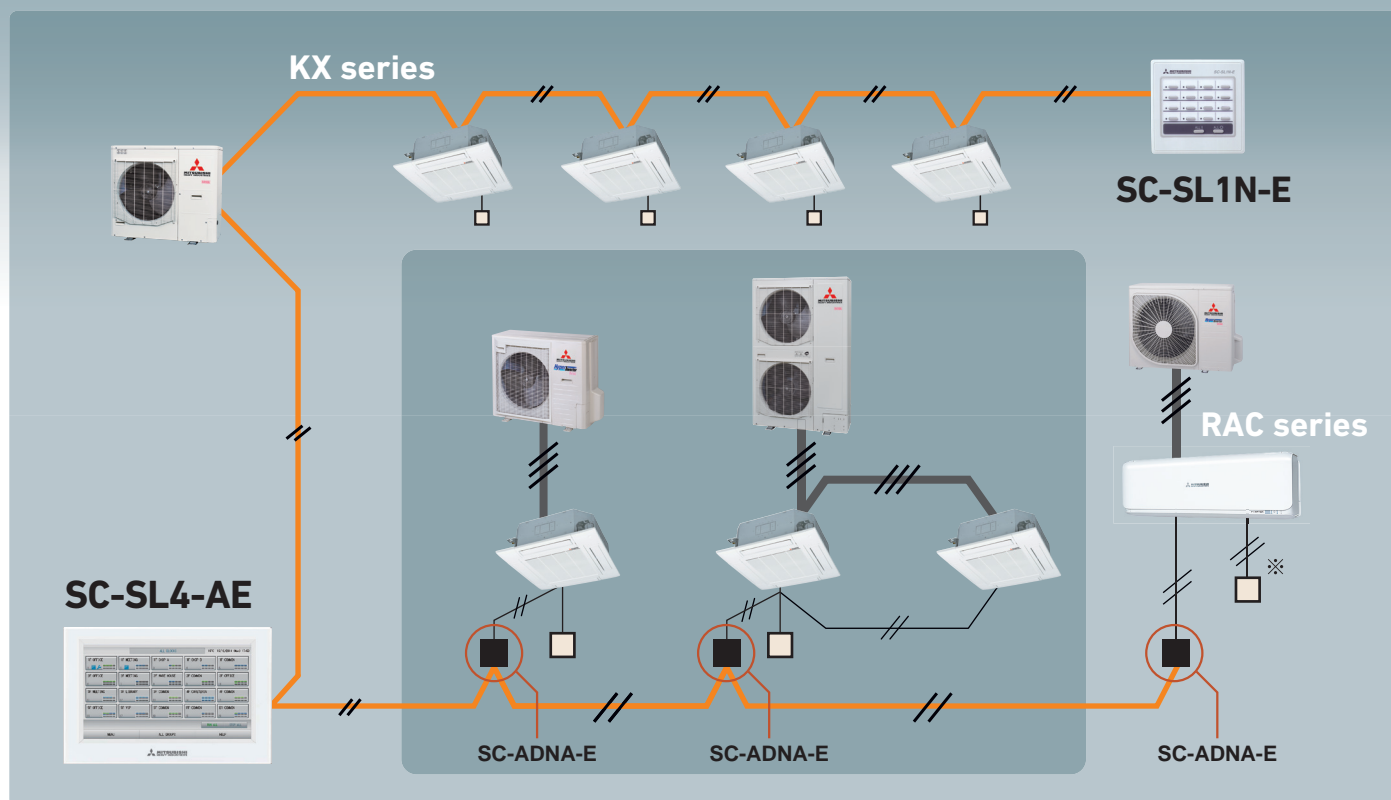
option

### 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.



# SUPERLINK II



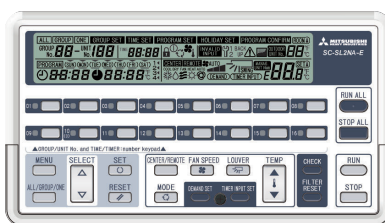
※ SC-BIKN2-E is necessary to connect to wired remote controller.

## Central Control



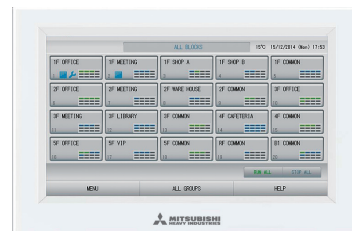
### SC-SL1N-E

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



### SC-SL2NA-E

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



### SC-SL4-AE/BE

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

## Building Management Systems

Production by order

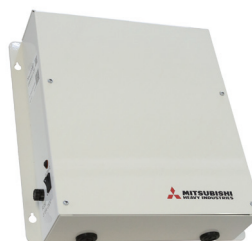


Users can manage up to 1024 units by connecting the four devices !!

### SC-WBGW256\*

Web gateway  
BACnet gateway

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



### SC-LGWNB\*

LonWorks gateway

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

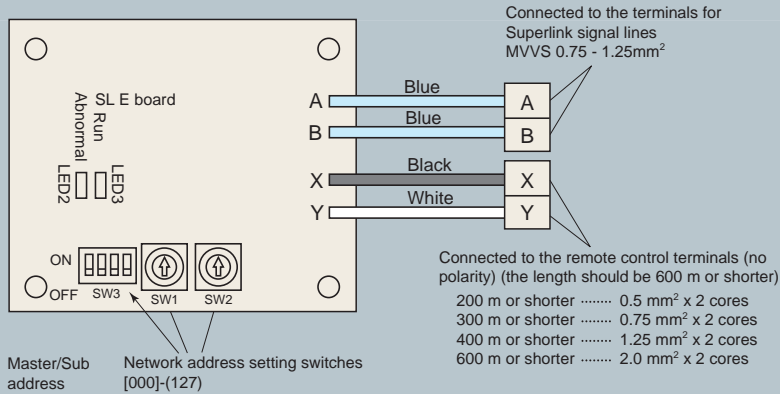
\* Additional engineering service is required. Please consult your dealer when using these system.

# SUPERLINK E BOARD (SC-ADNA-E)

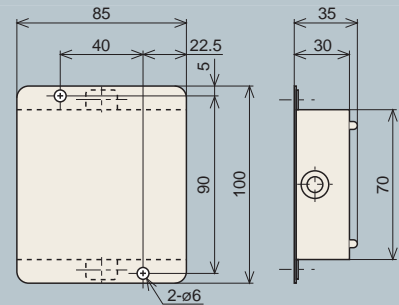
This board is used when conducting control of the single package (wired remote control unit) 1-type series using a network option (SC-SL1N-E, SC-SL2NA-E, etc).

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

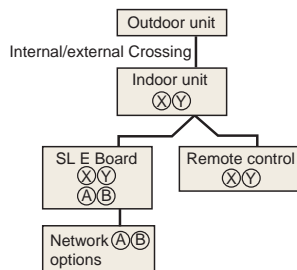
## (2) Wiring connection diagram



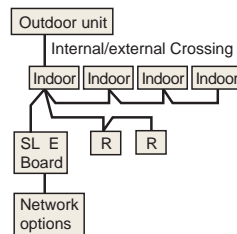
## (3) Metal box dimension (unit:mm)



### Basic Connections

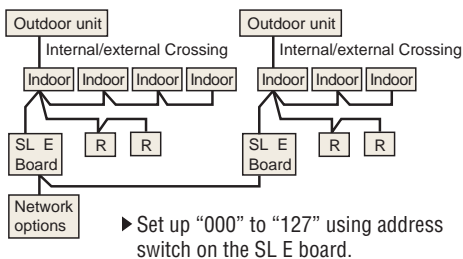


### Plural Controls by Multiple Remote Controls. Mixture of Multiple Units

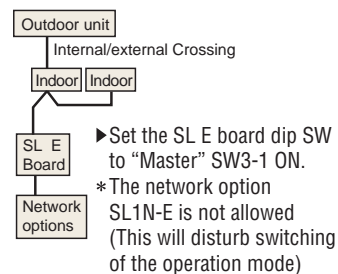


- Transmit the information of plural "Master" units to the network.
- Transmit the abnormalities of the "Slave" units to the network.
- ▶ Setting the plural "Master/Slave" units with the dip SW of the printed circuit board.
- ▶ Setting the "Master/Slave" remote controls with the dip SW of the remote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

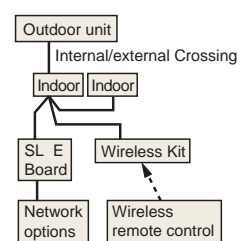
### Plural Controls by Multiple Remote Controls. Mixture of Multiple Units



### Without Remote Control

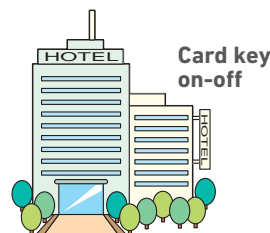


### Wireless Kit



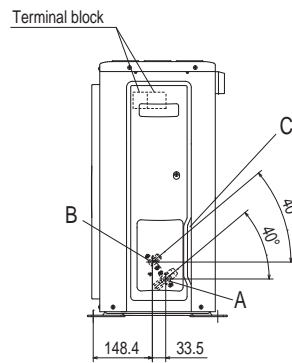
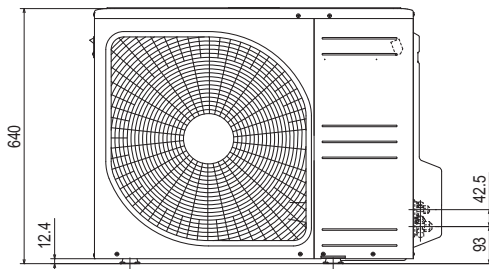
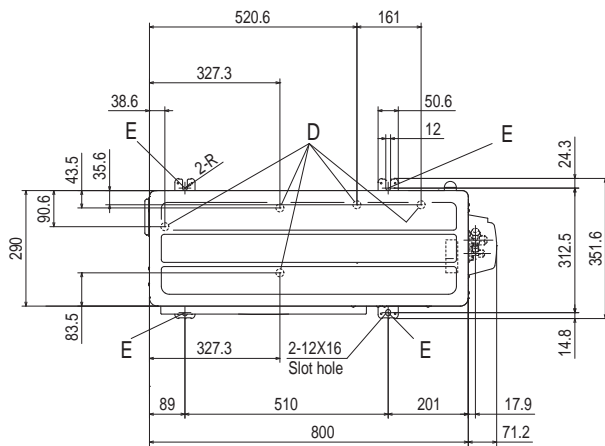
## External switch connection CNT, CNTA

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.



# Outdoor Unit Dimensions (Unit:mm)

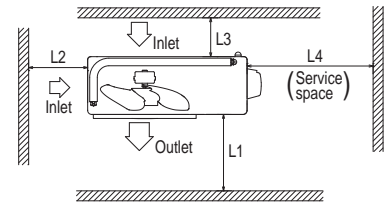
SRC40ZSX-W1, 50ZSX-W1, 60ZSX-W1 SRC40ZSX-S, 50ZSX-S, 60ZSX-S



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.

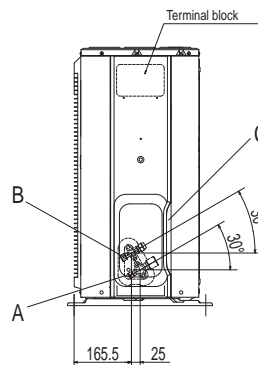
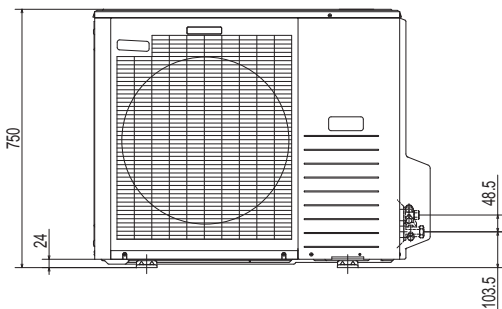
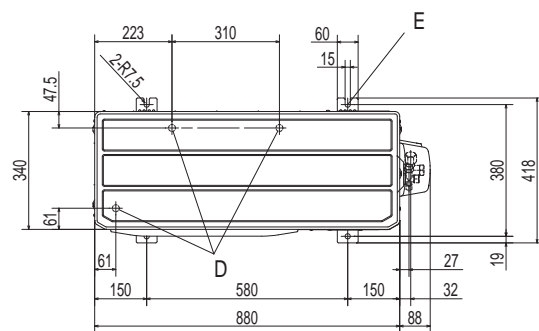


Minimum installation space

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

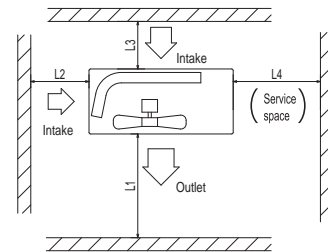
## FDC71VNX

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



## Notes

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

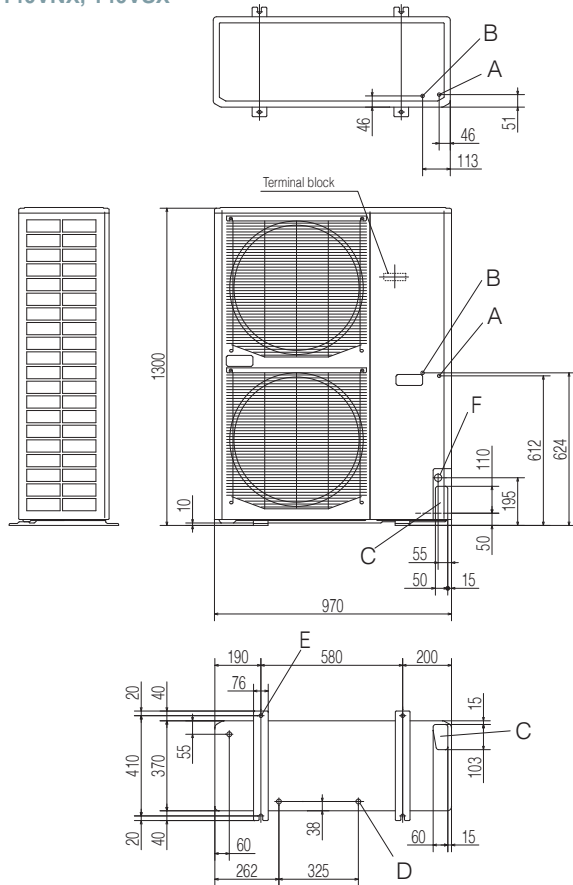


Minimum installation space

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

# Outdoor Unit Dimensions (Unit:mm)

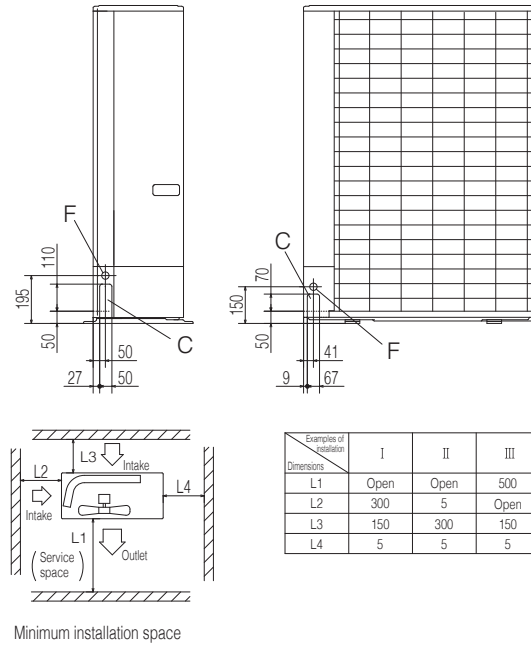
FDC100VNX, 100VSX, 125VNX, 125VSX,  
140VNX, 140VSX



Symbol	Content
A	Service valve connection of the attached connecting pipe (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 $\phi 20 \times 3$ places
D	Drain discharge hole $\phi 30$ (front)
E	Anchor bolt hole $\phi 45$ (side)
F	Cable draw-out hole $\phi 50$ (back)

## Notes

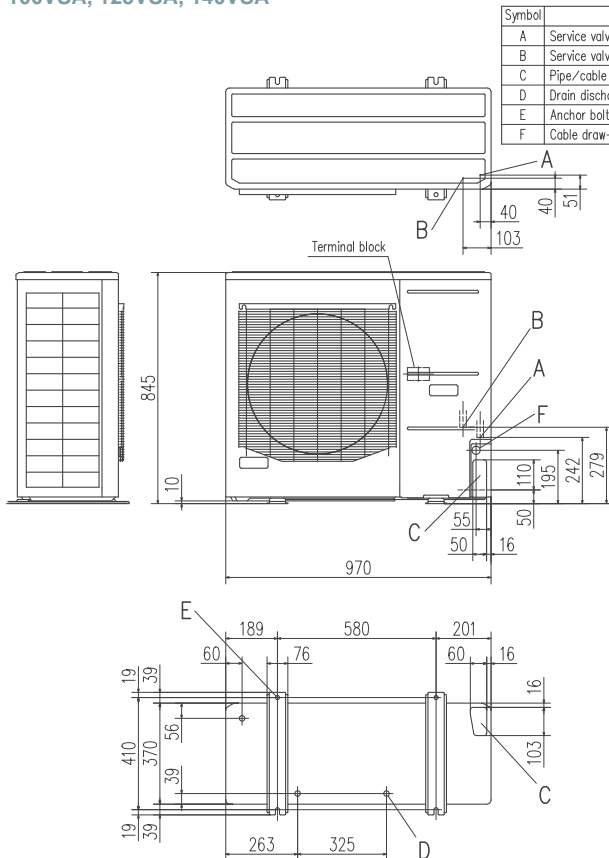
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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



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

Minimum installation space

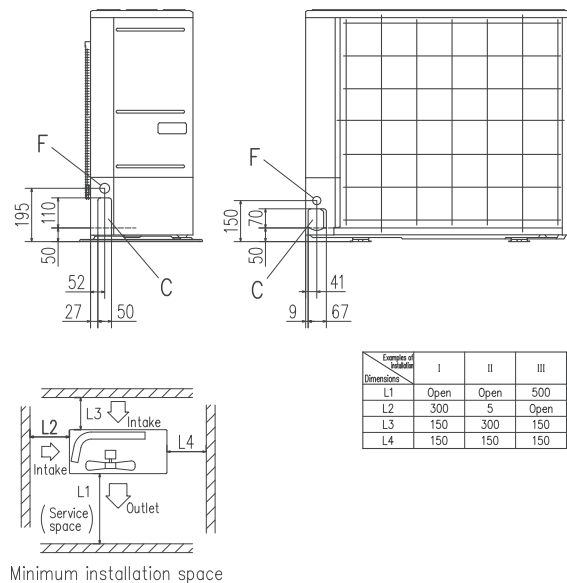
FDC100VNA, 125VNA, 140VNA  
100VSA, 125VSA, 140VSA



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



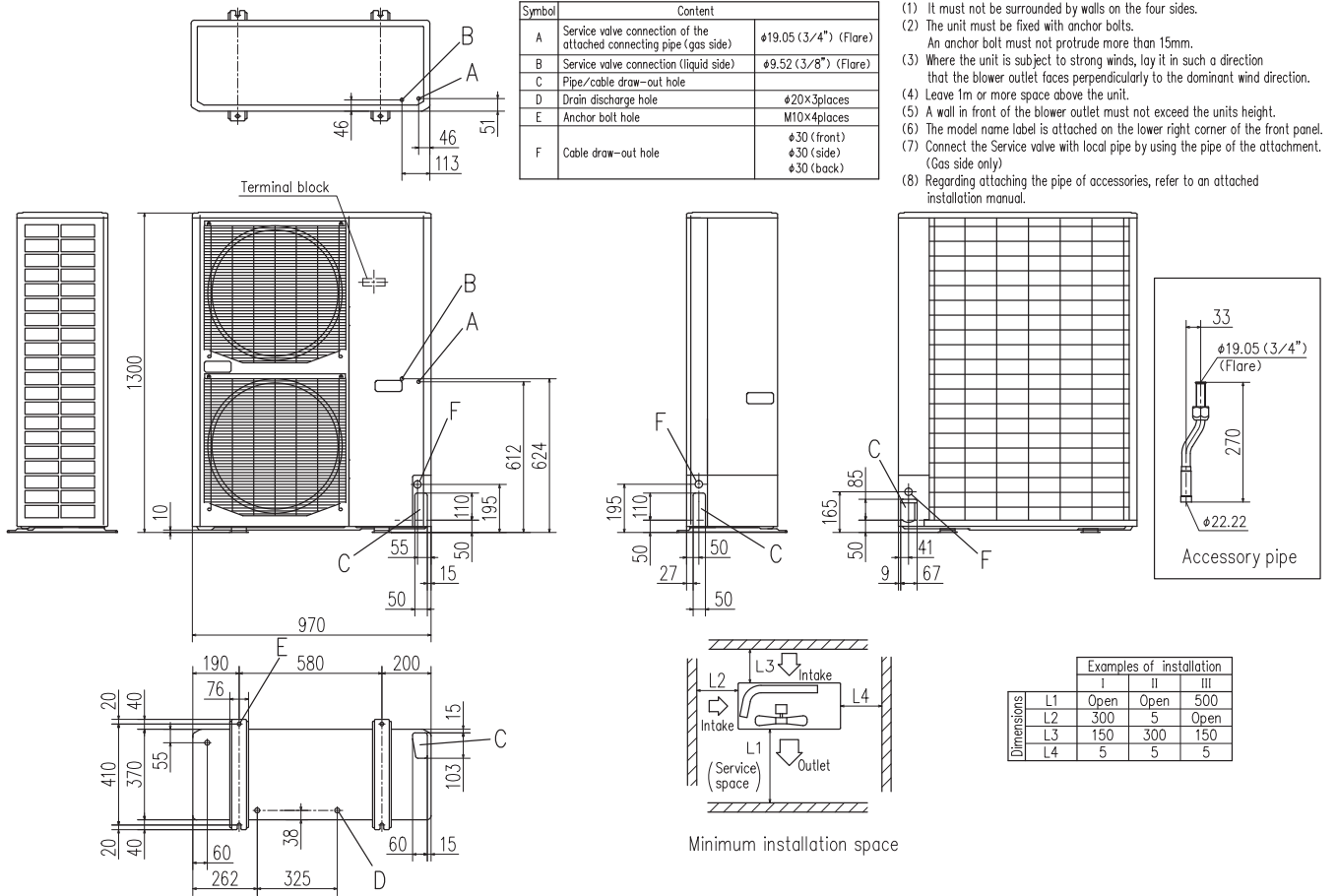
Examples of installation Dimensions	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	150	150	150

Minimum installation space

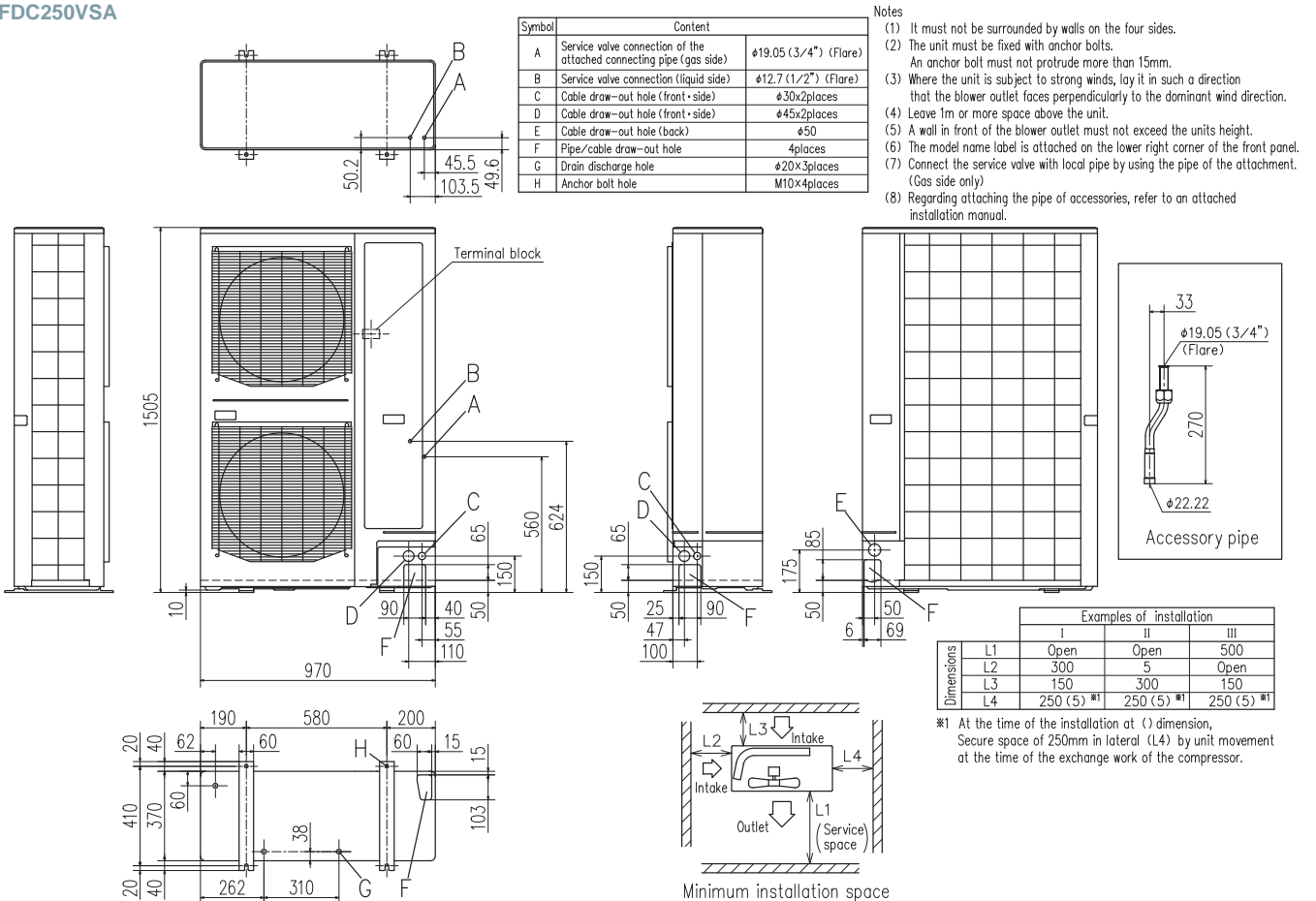


# Outdoor Unit Dimensions (Unit:mm)

## FDC200VSA



## FDC250VSA





## 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 (R32,R410A) used for Air conditioner is non-toxic and inflammable in its original state.

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

### Use in snowy areas

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

#### •Snow prevention

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

#### •Snow piling

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

### Automatic defrosting device

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

The "Automatic defrosting device" will function to remove this frost. After heating for approx. three to ten minutes, it will stop, and the frost will be removed. After defrosting, hot air will be blown again.

### Servicing the air-conditioner

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

## Safety Precautions

### Air-conditioner usage target

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

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

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

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

### Before use

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

### Installation

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

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

### Usage place

Do not install in places where combustible gas could leak or where there are sparks. Installation in a place where combustible gas could be generated, flow or accumulate, or places containing carbon fibers could lead to fires.

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Our factories are ISO9001 and ISO14001 certified.

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