

# Inverter Packaged Air Conditioners

## **FD**series

High Performance Air Conditioning

## 2022



**FDT** 4 way



**FDTC** 4 way compact





Fine snow panel



Shadow black panel



# 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 into any atmosphere creating a pleasant and relaxing environment.



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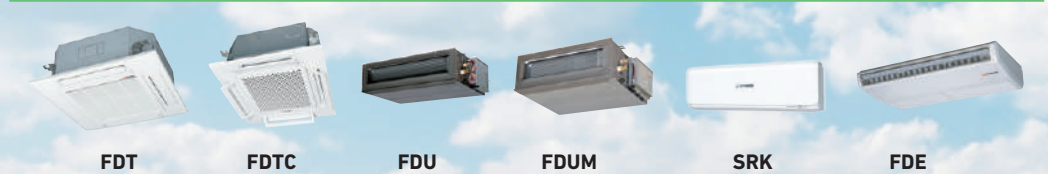
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# Next Generation Refrigerant R32

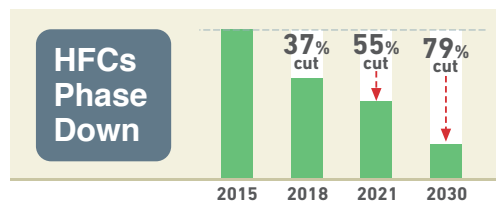
All indoor units and outdoor units line up are available for R32 refrigerant



## 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 relies its functions 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

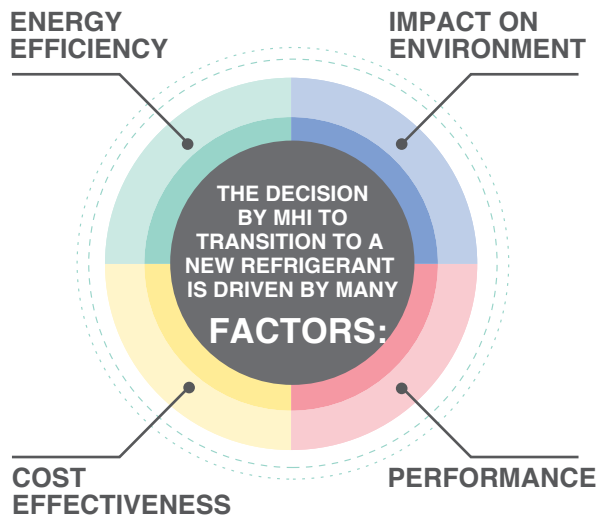
- A single component, easy to handle refrigerant
- Known as a component of the blend R410A(50% R32, 50% R125)
- Already used in Air Conditioning systems worldwide
- Zero Ozone Depletion
- Superior Energy Efficiency vs. R410A
- Reduced refrigerant charge vs. R410A
- Easy to recycle



**Hyper Inverter**

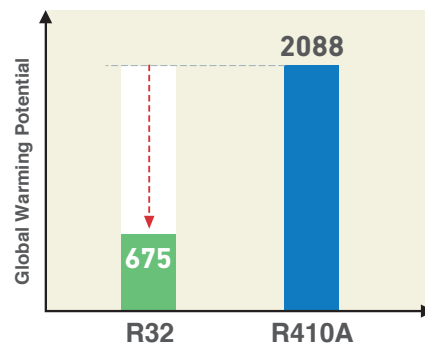
**Micro Inverter**

**Standard Inverter**



## Low Global Warming Potential

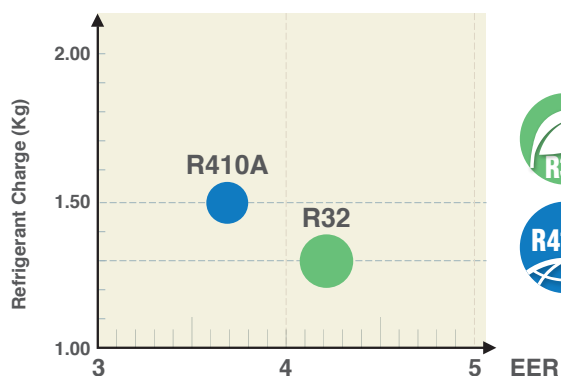
1/3 GWP VS. R410A



GWP Values based on IPCC 4th Assessment Report



## Superior Energy Efficiency

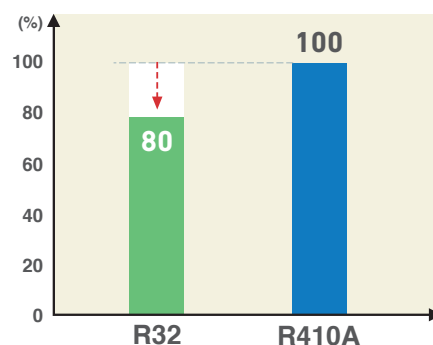


Energy Efficiency Ratio Based on 6.0 kW Ceiling cassette 4way unit



## Reduced Refrigerant Charge

Saving up to 20%



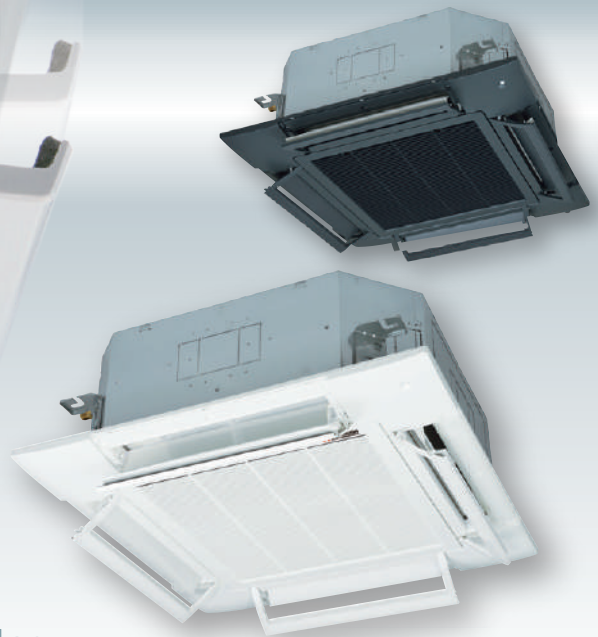
# New Generation

Ceiling Cassette  
4way

# FDT



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

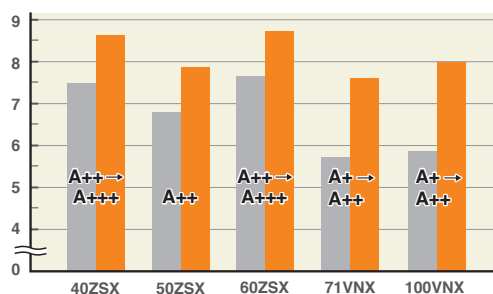


## High energy efficiency with new technology

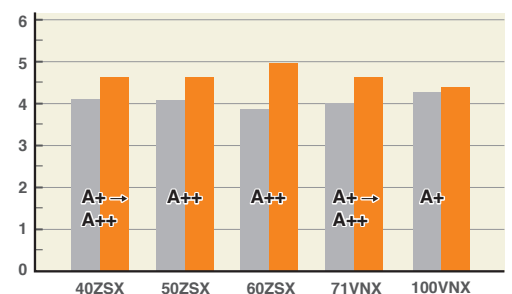
New FDT can achieve higher seasonal efficiency by utilising Mitsubishi Heavy Industries latest technology.

● SEER and SCOP is defined in European regulations. Please refer to P108.

**SEER in cooling** ■ Previous(VG(R410A)) ■ New(VH(R32))



**SCOP in heating** ■ Previous(VG(R410A)) ■ New(VH(R32))



## Quieter noise & Improved aerodynamic performance of the unit

New technology achieved low noise while keeping capacity and comfort by reducing the pressure fluctuation in an indoor unit. A fan guard ensures both safety and quietness.

Turbo fan



Fan guard  
(standard equipment)



New

## Various panels available

You can choose white and black panel according to the atmosphere and purpose of the room.



White panel  
(Fine snow)



Black panel  
(Shadow black)

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



### Draft Prevention Panel (Option)

Each of the 4 flaps can be controlled individually at each operation mode. They change air flow direction and prevent draft feeling. This new function also achieves more flexible control of 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

# FDTC



- More comfort and Higher energy savings
- European design
- Lower noise



A' Design Award and Competition is the World's largest, most prestigious and influential design accolade, the highest achievement in design. A' Design Award Winner Logo, symbolizes exceptional design excellence in your products, projects and services.

## European Design & Flat Panel

### Thin Panel

FDTC thin panel fit within 10mm from the ceiling.

### Big Louver

Improved distribution

### Unique Grille Design

Honeycomb grille

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

It's only 14kg

Height of thin panel and main body is only 248mm allowing a very easy installation.



New

## Various panels available

You can choose the grill design according to the atmosphere and purpose of the room.

Honeycomb type

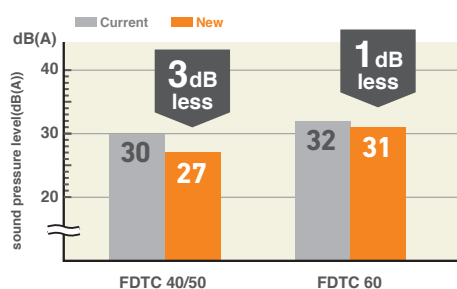


Grid type



## Quieter Operation

(Sound Pressure level in the Lo mode)



Adopting new turbo fan and improving new heat exchanger enables noise reduction.



## Draft Prevention Panel and Motion Sensor (option)



Draft prevention panel and motion sensor are available on FDTC, just like on FDT.

# Draft Prevention

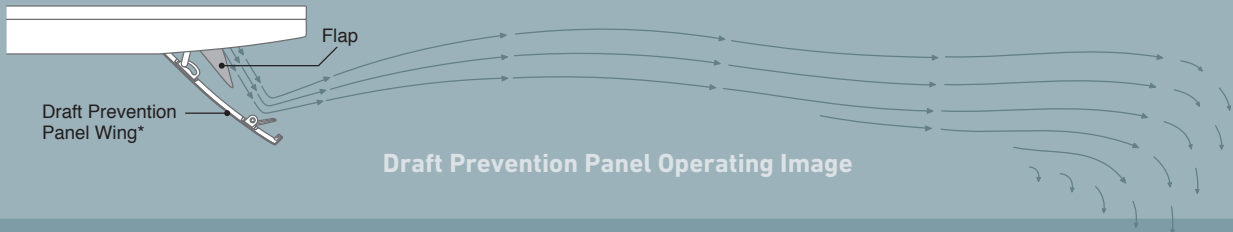
Keep maximum comfort  
with minimal draft:  
New FDT & FDTC control  
flaps with more flexibility.



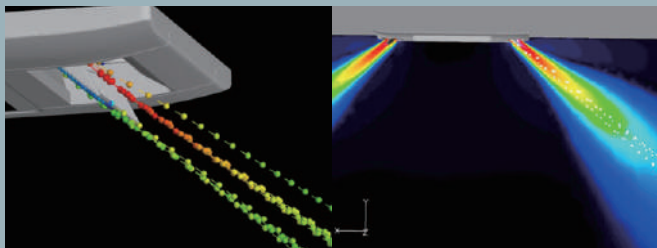
Ceiling cassette Compact  
**FDTC-VH** series



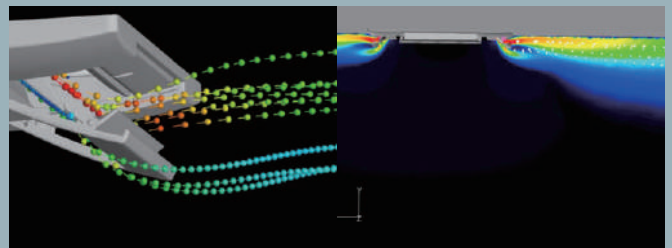
Ceiling cassette  
**FDT-VH** series



Draft Prevention Panel off



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.

\* Images is for illustration purposes.



# Motion Sensor

## Energy saving operation 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 shifting 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 the motion sensor detects activity again, the unit will automatically re-start operation.
3 <b>Auto Off</b>	Unit will go off automatically when no activity is detected for 12 hours.

Optional for models



Low human activity (in cooling)



High human activity (in cooling)



Absence for 1 hour



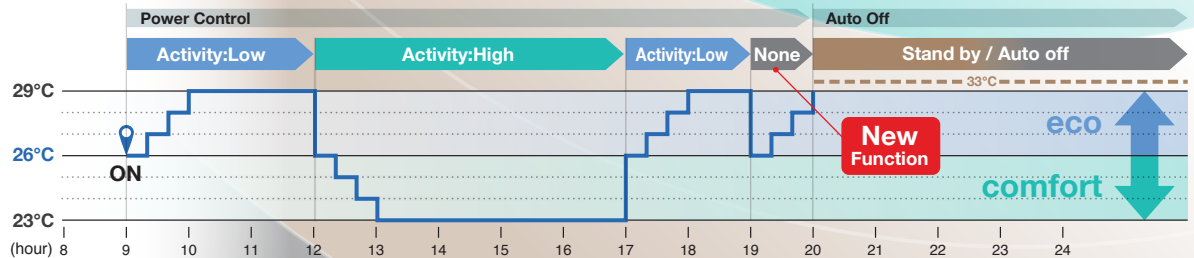
12 hours absence



in cooling

Set temperature

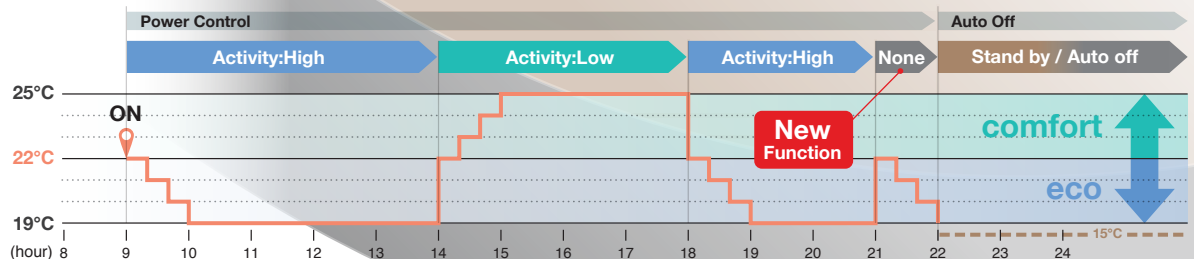
26°C



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") 12 hours absence Operation stops completely

# Remote Control

Simple use with  
advanced settings  
**REMOTE CONTROL**

Intuitive touch controller with  
Liquid Crystal Display

## RC-EX3A

### Function Switch

The function switch allows the user to select preferred two functions that are desired from 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. Draft prevention ON/OFF



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 in 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 be optimized to save energy without losing comfort.

#### 6. Favourite Mode



Operation mode, set temperature, fan speed and air flow direction will automatically be 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.

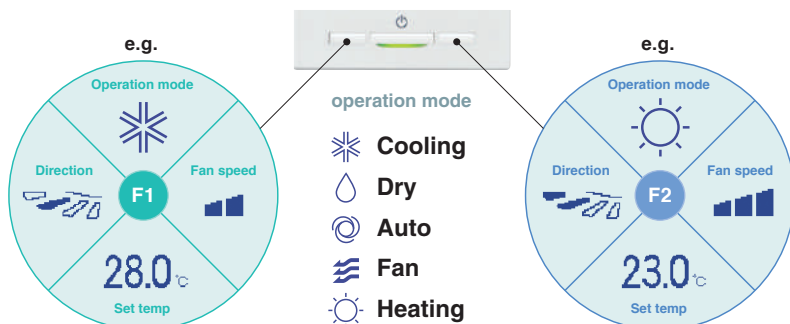


Function switch  
(F1)

Function switch  
(F2)

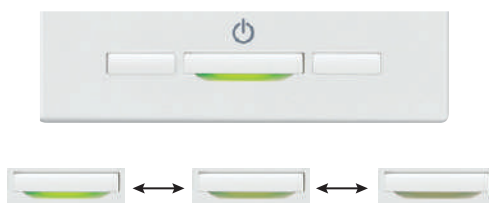
### Favourite Mode

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.

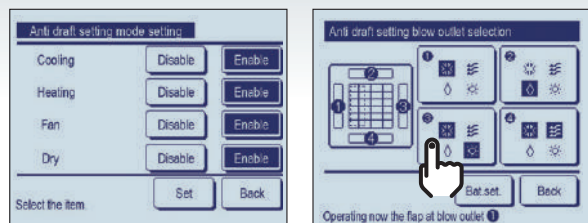




## Draft Prevention Setting

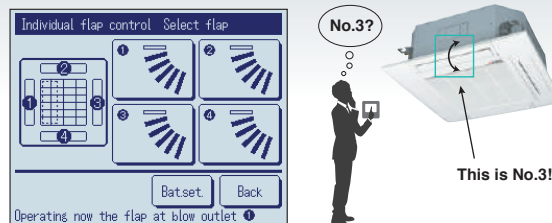
(only FDT•FDTC series)

User can enable/disable the motion of Draft prevention panel for each air outlet for each operation mode. This function can be set while operating.



## Easy Adjustment of the Air Flow

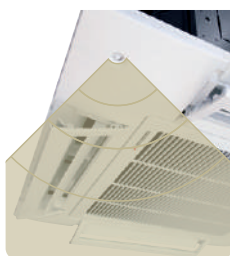
User can visually confirm and set the direction of flaps using the visual display on the remote controller.



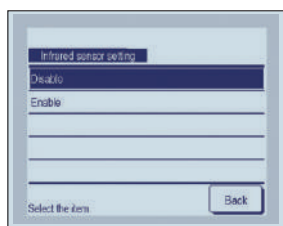
## Motion Sensor Control

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

### 1 Select Enable / Disable Motion sensor control



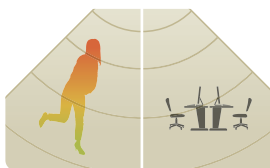
Enable/Disable



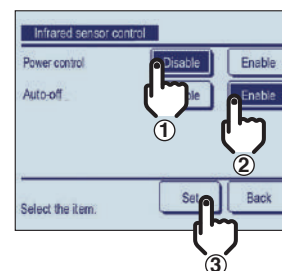
Select **Enable** / **Disable** for the motion sensor of the indoor unit connected to the R/C.

### 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable/Disable

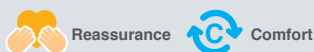


## Backup Control

Control restricted to two indoor units (two groups)

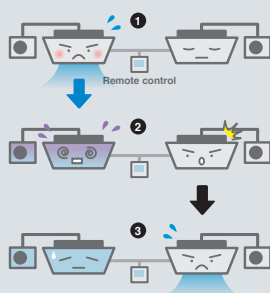


### Fault backup control



#### 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.

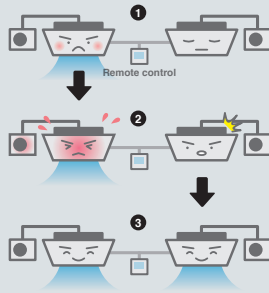


### Capacity backup control



#### Maintains users' comfort!

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

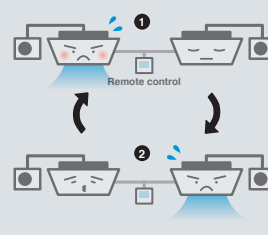


### Rotational operation control



#### Energy saving and longer life!

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

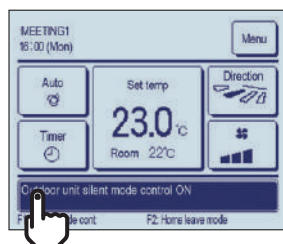
3 Output - Inspection

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

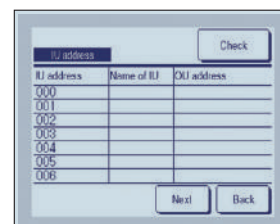
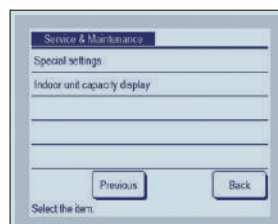
## Silent Mode Control

The Outdoor unit is controlled prioritising quiet operation. 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.



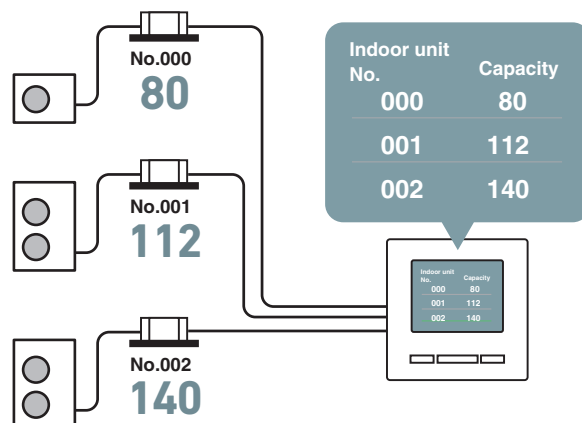
## Indoor Unit Capacity Display

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.

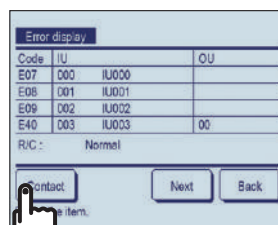
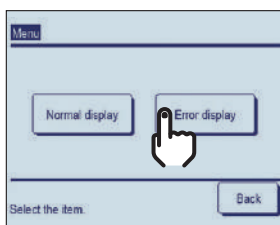
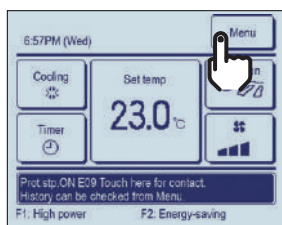


## Error display

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

<b>FD series</b> Type									
				HP	1.5	2.0	2.5	3.0	4.0
				kW	4.0	5.0	6.0	7.1	10.0
				Btu/h	13,600	17,100	20,500	24,200	34,100
				kcal/h	3,440	4,300	5,160	6,100	8,600
Ceiling Cassette	<b>FDT</b> P24 4way New 		1 Phase	●	●	●	●	●	
			3 Phase						●
			1 Phase	●	●	●	●	●	●
			3 Phase						●
	<b>FDTC</b> P42 4way compact New 		1 Phase	●	●	●			
			3 Phase						
			1 Phase	●	●	●			
			3 Phase						
Duct Connected	<b>FDU</b> P50 High Static pressure New 		1 Phase					●	●
			3 Phase						●
			1 Phase					●	●
			3 Phase						●
	<b>FDUM</b> P60 Low/Middle Static pressure 		1 Phase	●	●	●	●	●	●
			3 Phase						●
			1 Phase	●	●	●	●	●	●
			3 Phase						●
Wall Mounted	<b>SRK</b> P74 		1 Phase					●	●
			3 Phase						●
			1 Phase						
			3 Phase						
Ceiling Suspended	<b>FDE</b> P82 		1 Phase	●	●	●	●	●	●
			3 Phase						●
			1 Phase	●	●	●	●	●	●
			3 Phase						●
Floor Standing	<b>FDF</b> P96 		1 Phase					●	●
			3 Phase						●









































































































































Combat Global Warming  
Please refer to Page 4

Product line up

Capacity Range (Nominal Cooling Capacity)



		New  								
5.0	6.0	4.0	5.0	6.0	8.0	10.0	12.0	3.0	3.5	4.0
12.5	14.0	10.0	12.5	13.6	20.0	25.0	27.0	7.1	9.0	10.0
42,700	47,800	34,100	42,700	46,400	68,200	85,300	92,100	24,200	30,700	34,100
10,750	12,040	8,600	10,750	11,690	17,200	21,500	23,200	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	12
Hyper Inverter	●	●	●	●	—	●	●	●	—	—	—
Micro Inverter	—	—	—	—	—	●	●	●	●	●	●
Standard Inverter	—	—	—	●	●	●	●	—	—	—	—

※ coming soon

## Hyper Inverter



SRC40ZSX-W1 (1.5HP)  
SRC50ZSX-W2 (2.0HP)  
SRC60ZSX-W1 (2.5HP)



FDC71VNX-W (3.0HP)



FDC100VNX/VSX-W (4.0HP)  
FDC140VNX/VSX-W (6.0HP)



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-W/VSA-W (4.0HP)  
FDC125VNA-W/VSA-W (5.0HP)  
FDC140VNA-W/VSA-W (6.0HP)

New



FDC200VSA-W (8.0HP)  
FDC250VSA-W (10.0HP)  
FDC280VSA-W (12.0HP)



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



FDC200VSA (8.0HP)



FDC250VSA (10.0HP)

## Standard Inverter



FDC71VNP-W (3.0HP)



FDC90VNP-W (3.5HP)  
FDC100VNP-W (4.0HP)

Coming soon



FDC125VNP-W (5.0HP)



FDC71VNP (3.0HP)



FDC90VNP1 (3.5HP)



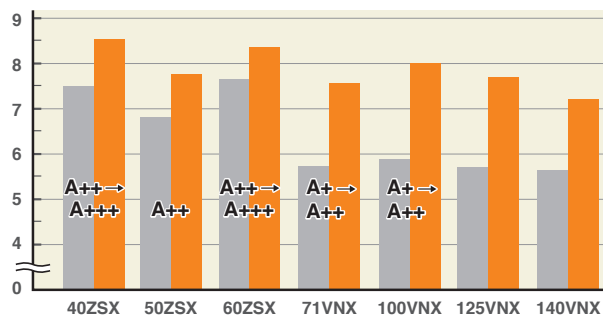
FDC100VNP (4.0HP)

## High Efficiency

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

### SEER in cooling

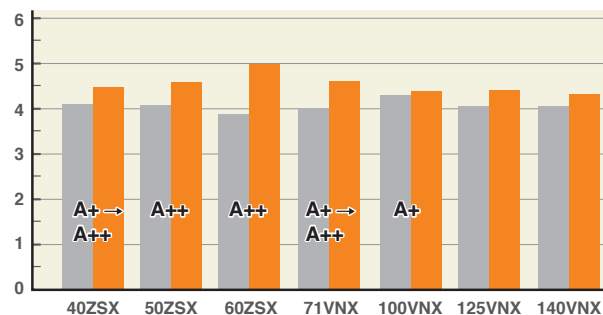
■ Previous(VG(R410A)) ■ New(VH(R32))



· In case of ceiling cassette 4way unit.

### SCOP in heating

■ Previous(VG(R410A)) ■ New(VH(R32))



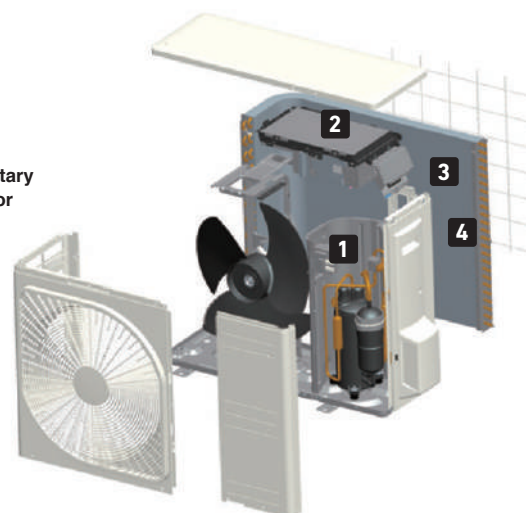
## Our Latest Technologies

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

Adoption 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

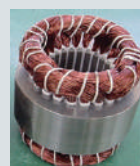


### 2 Vector inverter control

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

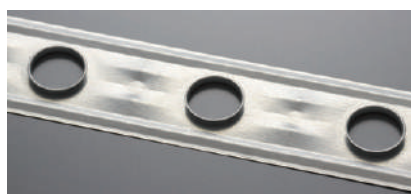


Centralized winding motor

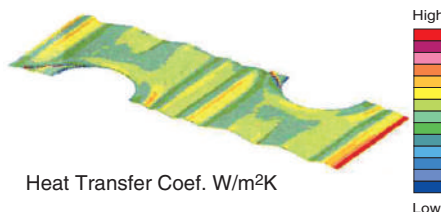
\* only R32 models

### 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.

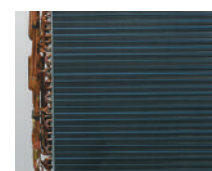


sectional structure



### 4 Blue fin

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



**Blue Fin**

Hyper Inverter	3~6HP
Micro Inverter	4~12HP
Standard Inverter	3,3.5,4HP



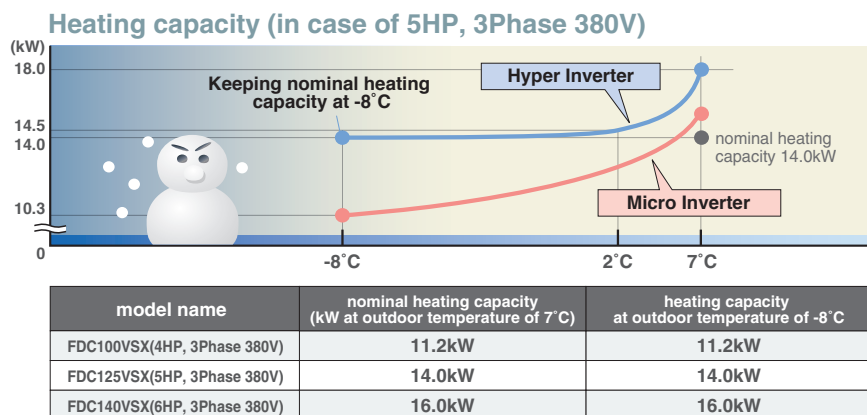
# Outdoor units

## Leading Powerful Heating Capacity

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 -8°C.

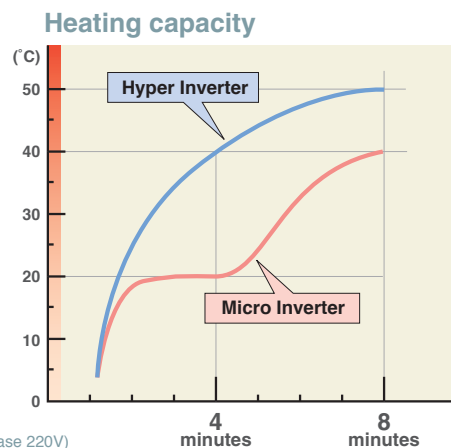
It is effective to be used even in cold area.



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

### Hyper Inverter

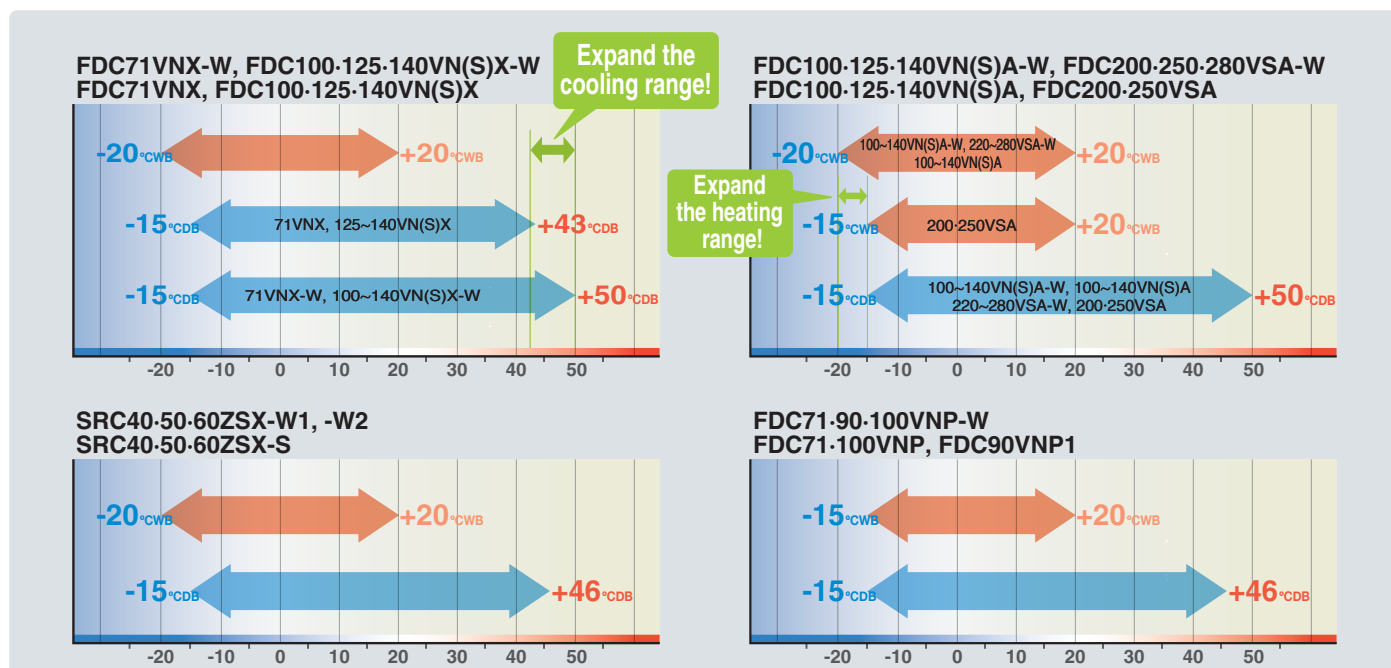
Temperature of supply air can reach 40°C in 4 minutes after start up under low temperature operation conditions (at both indoor and outdoor temperature of 2°C) and can reach 50°C in 8 minutes after that.



## 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

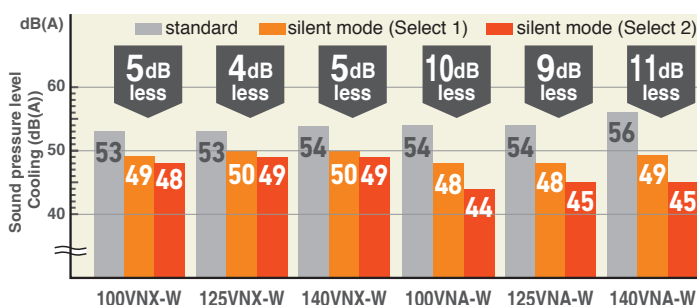
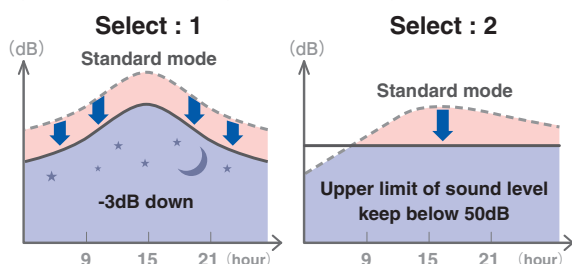


## Silent Mode Operation

Hyper / Micro Inverter

Improved "silent mode" is possible, in two steps.

※ Applied on 4-6HP, 8-12HP(R32)



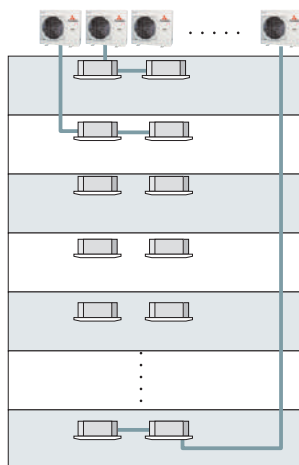
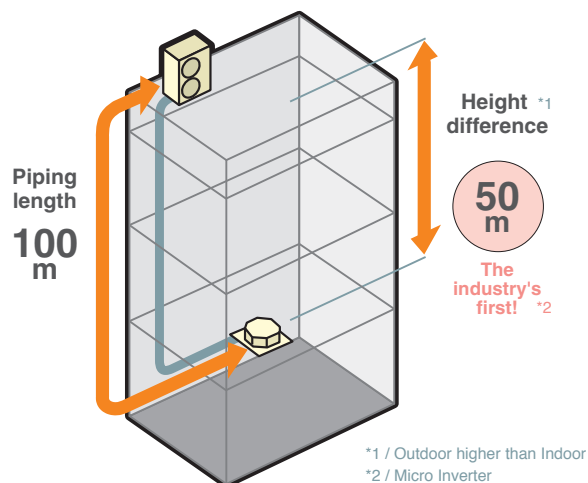
## Installation Workability

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(R32)	100m	50m
4~6(R410A)	100m	30m

### Micro Inverter

HP	Piping length	Height difference
4 ~ 6	50m	50m *3
8~10(R32)	70m	50m *4
8~10(R410A)	70m	30m
12	60m	50m *4

\*3 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.

\*4 In case of following conditions: Max. 50m (Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max. 30m (Outdoor unit is higher & Outdoor temperature > 43°C)

### Standard Inverter

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

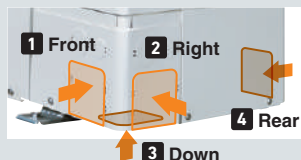
### Refrigerant precharged piping length extending to 30m

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 (8(R32)-10-12HP)

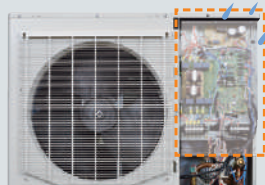
### Improved freedom of piping layout



Hole size becomes 120% bigger.

### A transparent rain cover

Attached as a standard for easy maintenance.



### 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.



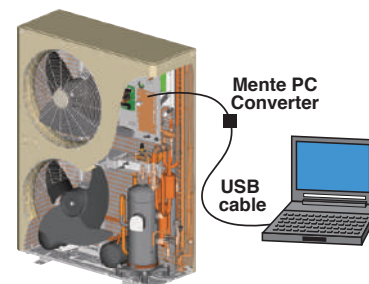
### Fixing screws to service panel

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

## Easy Transportation & Installation

Compact design of outdoor units.

Standard Inverter

FDC100VNP-W

- Compact model
- Reduction of weight



Fits into elevators



Eazy installation



applied for



Hyper Inverter	FDC71VNX-W	FDC71VNX
	FDC100•125•140VNX-W	FDC100•125•140VNX
	FDC100•125•140VSX-W	FDC100•125•140VSX
Micro Inverter	FDC100•125•140VNA-W	FDC100•125•140VNA
	FDC100•125•140VSA-W	FDC100•125•140VSA
	FDC200•250•280VSA-W	FDC200•250VSA
Standard Inverter	—	FDC100VNP








# Outdoor units

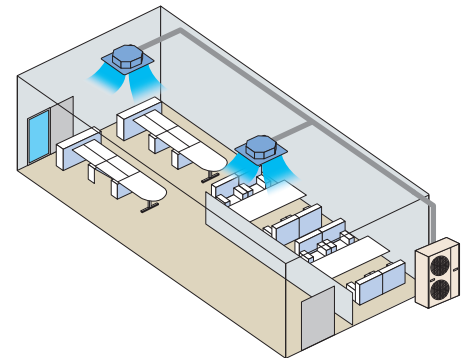
## MULTI SYSTEM

# Twin / Triple / Double Twin Multi System

Up to Four indoor units can be connected to a single outdoor unit and operated simultaneously 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						
												
FDC		71VNX-W	100VNX-W 100VSX-W	125VNX-W 125VSX-W	140VNX-W 140VSX-W	100VNA-W 100VSA-W	125VNA-W 125VSA-W	140VNA-W 140VSA-W	—	200VSA-W	250VSA-W	280VSA-W
		71VNX	100VNX 100VSX	125VNX 125VSX	140VNX 140VSX	100VNA 100VSA	125VNA 125VSA	140VNA 140VSA	200VSA	—	250VSA	—
Twin		40 + 40	50 + 50	60 + 60	71 + 71	50 + 50	60 + 60	71 + 71	100 + 100	100 + 100	125 + 125	140 + 140
Triple					50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	71 + 71 + 71		
Double Twin									50+50+50+50	50+50+50+50	60+60+60+60	71+71+71+71

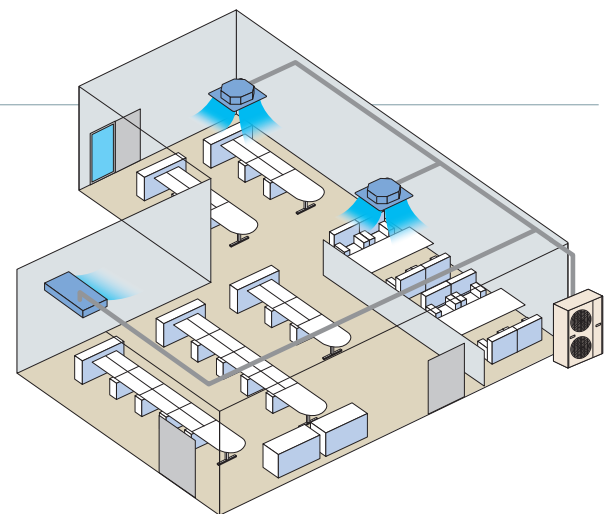


# V Multi System

Ideal for the installation in large areas 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						
												
FDC		71VNX-W	100VNX-W 100VSX-W	125VNX-W 125VSX-W	140VNX-W 140VSX-W	100VNA-W 100VSA-W	125VNA-W 125VSA-W	140VNA-W 140VSA-W	—	200VSA-W	250VSA-W	280VSA-W
		71VNX	100VNX 100VSX	125VNX 125VSX	140VNX 140VSX	100VNA 100VSA	125VNA 125VSA	140VNA 140VSA	200VSA	—	250VSA	—
Twin		40 + 40	50 + 50	60 + 60 50 + 71	71 + 71	50 + 50	60 + 60 50 + 71	71 + 71	100 + 100 71 + 125	100 + 100 71 + 125	125 + 125	140 + 140
Triple					50 + 50 + 50			50 + 50 + 50	71 + 71 + 71	71 + 71 + 71	60+60+125 71+71+100	71+71+140
Double Twin									50+50+50+50	50+50+50+50	60+60+60+60	71+71+71+71









## Applicable indoor units

Model		Capacity						
		40	50	60	71	100	125	140
Twin / Triple Double Twin Multi System	<b>FDT</b> 	●	●	●	●	●	●	●
	<b>FDTC</b> 	●	●	●				
	<b>FDUM</b> 	●	●	●	●	●	●	●
	<b>SRK</b> 		●*1	●*1	●*2	●*3		

\* 1 Hyper Inverter model & Micro Inverter -W model only.

\* 2 Micro Inverter -W model combination only.

\* 3 SRK100 is not yet compatible with FDC200-280VSA-W. The compatible version is in plan to be developed.

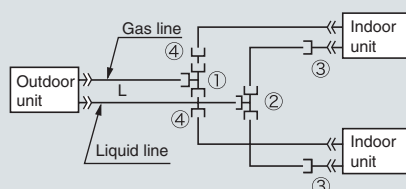
Model		Capacity						
		40	50	60	71	100	125	140
Twin / Triple Double Twin Multi System	<b>FDE</b> 	●	●	●	●	●	●	●
	<b>FDF</b> 				●	●	●	●
V Multi System	<b>FDT</b> 	●	●	●	●	●	●	●
	<b>FDE</b> 	●	●	●	●	●	●	●

## Choice of piping specification

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

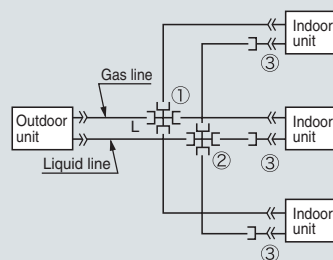
### Twin type

Models FDC71, FDC100~140, FDC200, FDC250, FDC280  
[Branch pipe set : DIS-WA1G, DIS-WB1G]



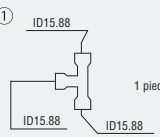
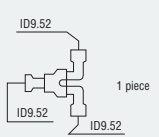


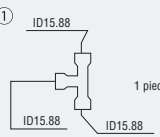
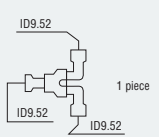

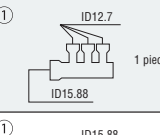
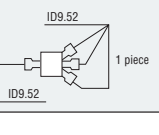

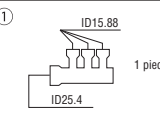
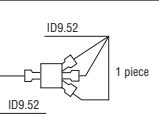



### Triple type

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			③ Joint A 2 pieces  ID9.52 Flare Joint (for indoor unit side connection) ④ Joint B 2 pieces  OD15.88 ID12.7
	FDC100	50+50			
		40+60			
	FDC125	60+60			
DIS-WB1G (Two-way branching set)	FDC140	50+71			④ Joint C 1 piece  OD12.7 ID9.52
		71+71			
	FDC200	100+100			
DIS-TA1G (Three-way branching set)	FDC250	125+125			③ Joint A 3 pieces  ID9.52 Flare Joint (for indoor unit side connection)
	FDC280	140+140			
DIS-TB1G (Three-way branching set)	FDC200	71+71+71			③ Joint A 2 pieces  ID9.52 Flare joint(for indoor unit side connection) Joint B 1 piece  OD15.88 ID12.7 Joint D 1 piece  ID12.7 OD9.52

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.

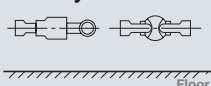
### Notes

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

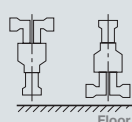
ID stands for inner diameter and OD, outer diameter.

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

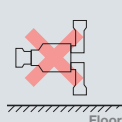
#### 2-Way Branch



Mount — sections  
level with the floor.

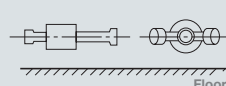


Mount — sections  
perpendicular to the floor.

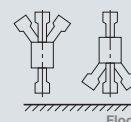


Floor

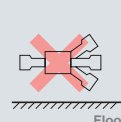
#### 3-Way Branch



Floor



















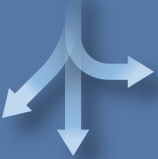




Floor







Floor

# Indoor units

## BENEFITS SUMMARY

		FDT	FDTc	FDU	FDUM	SRK	FDE	FDF
								
<b>Energy-Saving</b> 	 <b>Inverter Technology</b> Inverter control technology delivers high efficiency and a smooth operation from high speed to low speed. A smooth sine voltage wave is attained.	●	●	●	●	●	●	●
	 <b>Energy-Saving Operation *</b> Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.	●	●	●	●	●	●	● Option
	 <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>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.	●	●	●	●	●	●	● Option
	 <b>Set Temperature Auto Return *</b> This function allows the user to program a preferred set temperature that the unit will return to each time it is operated.	●	●	●	●	●	●	● Option
<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 the user to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.	●	●	●	●	●	●	●
	 <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.	●	●	●	●	●	●	● Option
<b>Air Flow</b> 	 <b>Flap Control System</b> This function allows the user 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 the 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.	●	●	●	●	●	●	● Option

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	 P42	 P50	 P60	 P74	 P82	 P96							
															
<b>Timer</b> 	 <b>Sleep Timer</b> This function allows the user 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 the user to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.	●	●	●	●	●	●	●						● Option	
	 <b>Weekly Timer</b> Set the unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.	●	●	●	●	●	●	●							
<b>Convenience</b> 	 <b>Function Switch *</b> From the seven available functions on the unit, this function allows the user to set two functions to operate automatically.	●	●	●	●	●	●	●						● Option	
	 <b>Favourite Setting *</b> Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favourite setting.	●	●	●	●	●	●	●						● Option	
	 <b>Select the Language *</b> Set the language to be displayed on the remote control.	●	●	●	●	●	●	●						● Option	
	 <b>Air Filter</b> The air filter in the unit traps and removes airborne dust particles and other allergens to provide you clean air.	●	●	● Procure locally	● Option	●	●	●							
	 <b>Filter Sign</b> This warning alerts 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 authorised dealers 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.	●	●	● *1	●										
	 <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 • 280



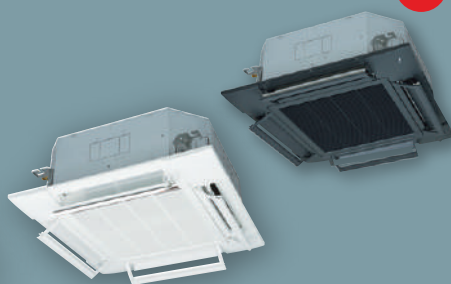
# FDT

Indoor Unit

## Ceiling Cassette -4way-



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



Draft Prevention Panel (Option)

New



### Remote control (option)

#### Wired



RC-EX3A



RC-E5



RCH-E3

#### Wireless



RCN-T-5BW-E2(White)  
RCN-T-5BB-E2(Black)

\*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.



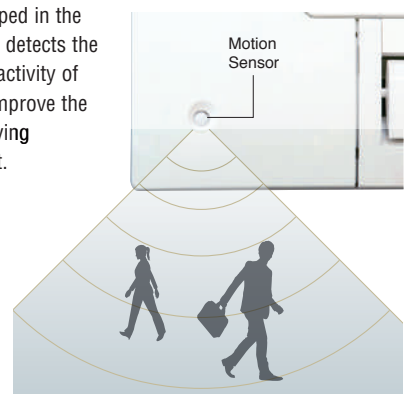
User can position panels by using the remote controller only (RC-EX3A, Wireless kit) when Draft Prevention Panel is available.

## Motion Sensor (Option)

Motion sensor is equipped in the corner of 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.

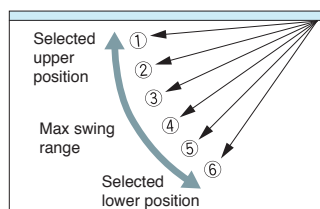


LB-T-5BW-E(White)  
LB-T-5BB-E(Black)



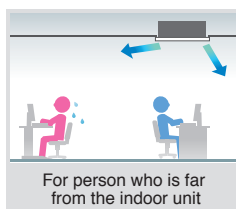
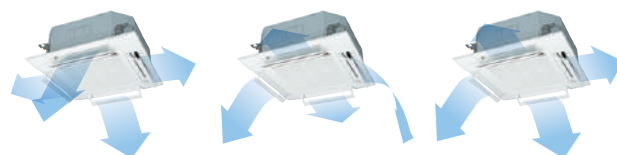
## Individual Flap Control System

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.

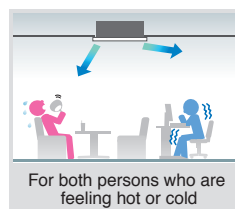


Flap can swing within an upper and lower flap range position within can be selected with a wired remote control.

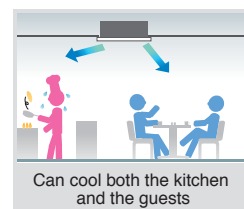
\* The wireless remote control is not applicable to the Individual flap control system.



For person who is far from the indoor unit



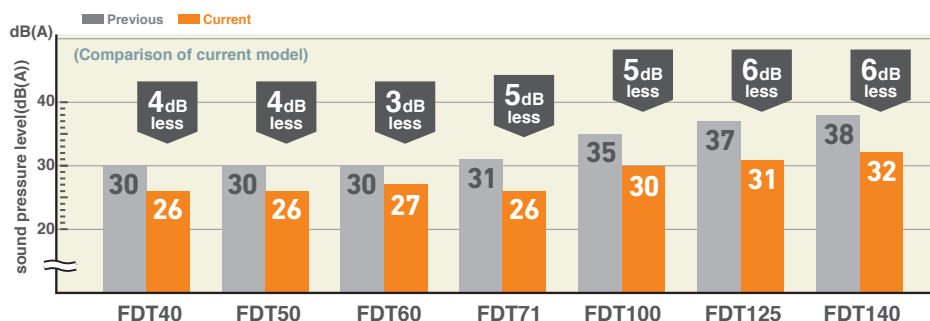
For both persons who are feeling hot or cold



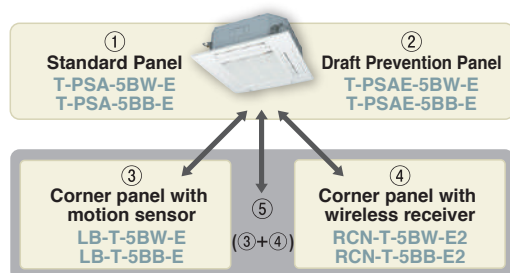
Can cool both the kitchen and the guests

## Reduced Noise

New technology has achieved low noise (in cooling) while keeping capacity and comfort.



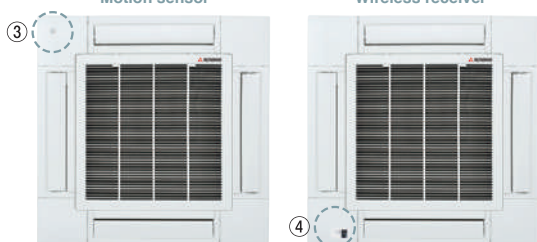
## Panel Select Pattern (Option)



Installation position of Wireless kit and Motion sensor kit

8 patterns of panel are available.

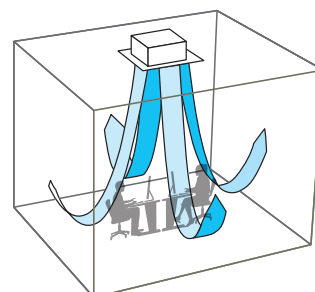
- ① Standard Panel only
- ①+③ Standard Panel with corner panel with motion sensor
- ①+④ Standard Panel with corner panel with wireless receiver
- ①+⑤ Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
- ② Draft Prevention Panel only
- ②+③ Draft Prevention Panel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



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

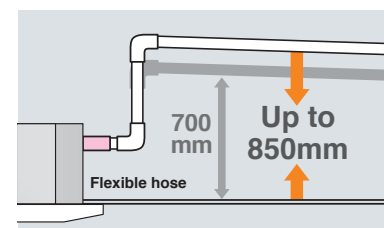
## Suitable for High ceilings

The Powerful blowout carries comfortable air flow to the floor even in high ceiling applications. It is ideal for high ceiling offices, stores, etc., with a wide, uniform air flow throughout the room.



## 850mm Drain Pump

Drain can be discharged upwards up to 850mm from the ceiling surface, allowing a piping layout with a high degree of freedom. Thanks to the 185mm flexible hose, equipment supports easy workability.



## OUTDOOR UNIT

		Hyper Inverter		
SRC • FDC		40~60ZSX-W1,-W2	71VNX-W	100~140VN(S)X-W
		40~60ZSX-S	71VNX	100~140VN(S)X
model				
Chargeless		15m	30m	
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter			Standard Inverter		
FDC		100~140VN(S)A-W	—	200~250~280VSA-W	71VNP-W	90~100VNP-W	—
		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 !

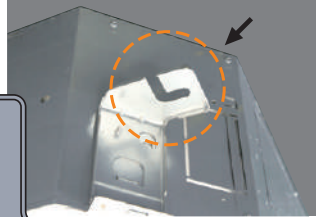
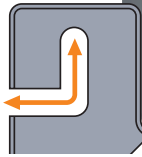
## Indoor unit is easily positioned and installed

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

FDT

New shape of slit is suitable to install the unit with more flexibility, compatible with 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

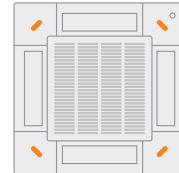
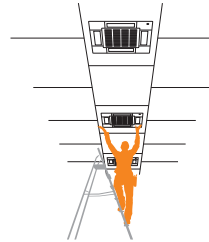


### 2 New slit in panel allows easier installation on site.

FDT

FDTC

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



4 long slits are available.

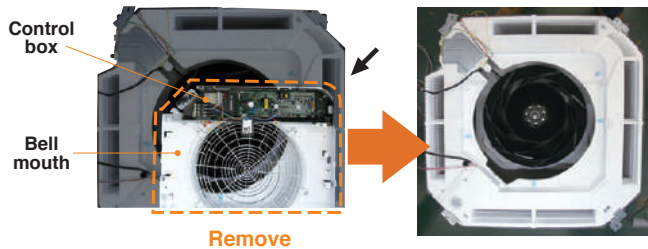
## Quick installation and maintenance

### 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.

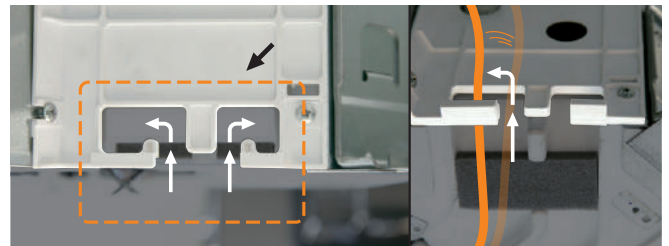


Remove

### 2 New shape of path of wiring.

FDT

New shape of path gives easy wiring work for installation.

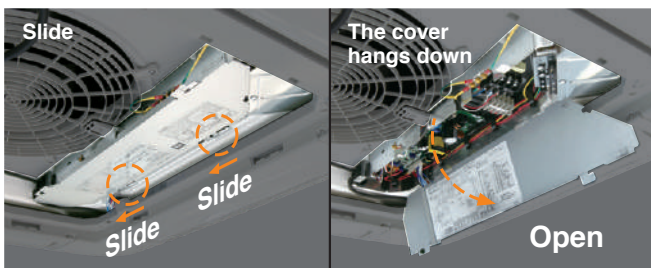


Easy wiring work

### 3 No need to remove screws to open the controller cover.

FDT

It is possible to loose and slide open the cover without removing the screws. This prevents the cover from falling and causing damage on site.



No need to remove screws



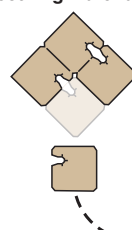
### 4 Safer installation by stopper of washer

FDT

FDTC

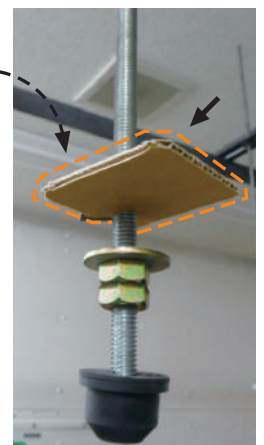
When unit is installed with hook between washers, this stopper helps to install the unit safely, without adjusting washer.

Separate the provisional washer securing material.



Stopper

Washer on the upper side







Builder



Maintenance



FDT



FDTC

For smooth and easy working

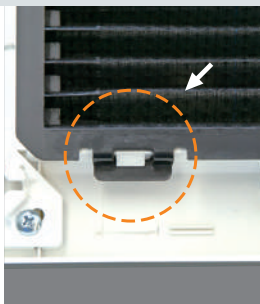
## Good help for installation and maintenance

### 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.

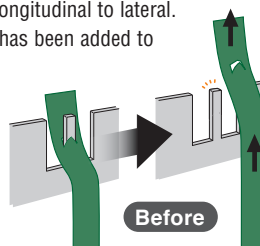


Soft material

### 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

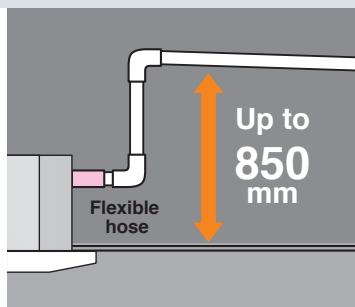
Easy to hook but not easy to loose

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

FDT  
FDTC

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

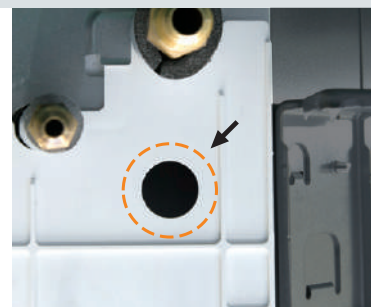
	Previous	New
FDT	700	850
FDTC	600	850



### 4 New port to check drain water flow

FDT

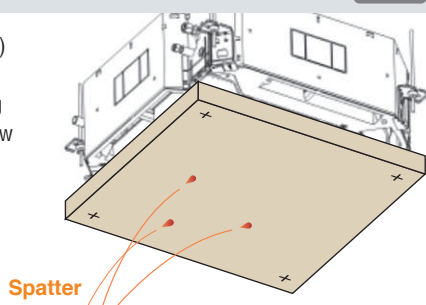
A water supply port has been provided in the piping lid for easier testing of the drain water flow. (The port is usually sealed with a rubber cap.)



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

FDT  
FDTC

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

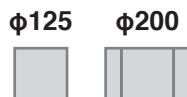
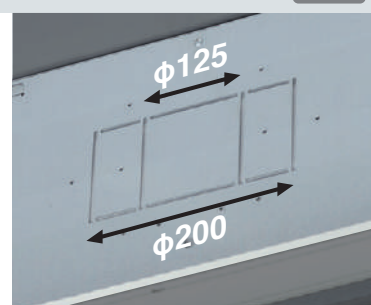


Spatter

### 6 More flexible outlet for ducting

FDT  
FDTC

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

 $\phi 125$  $\phi 200$ 

### 7 Easy check of drain pan

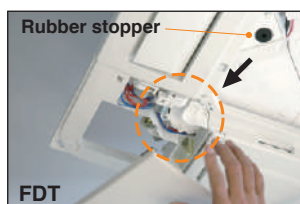
FDT  
FDTC

Easy inspection of the condition of the drain pan is possible by removing only the corner lid.



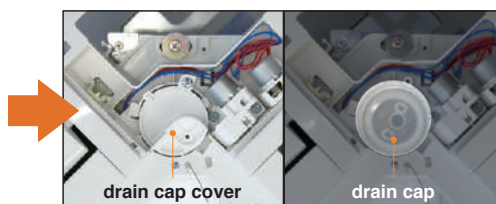
FDTC

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.



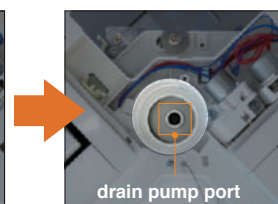
Rubber stopper

FDT



drain cap cover

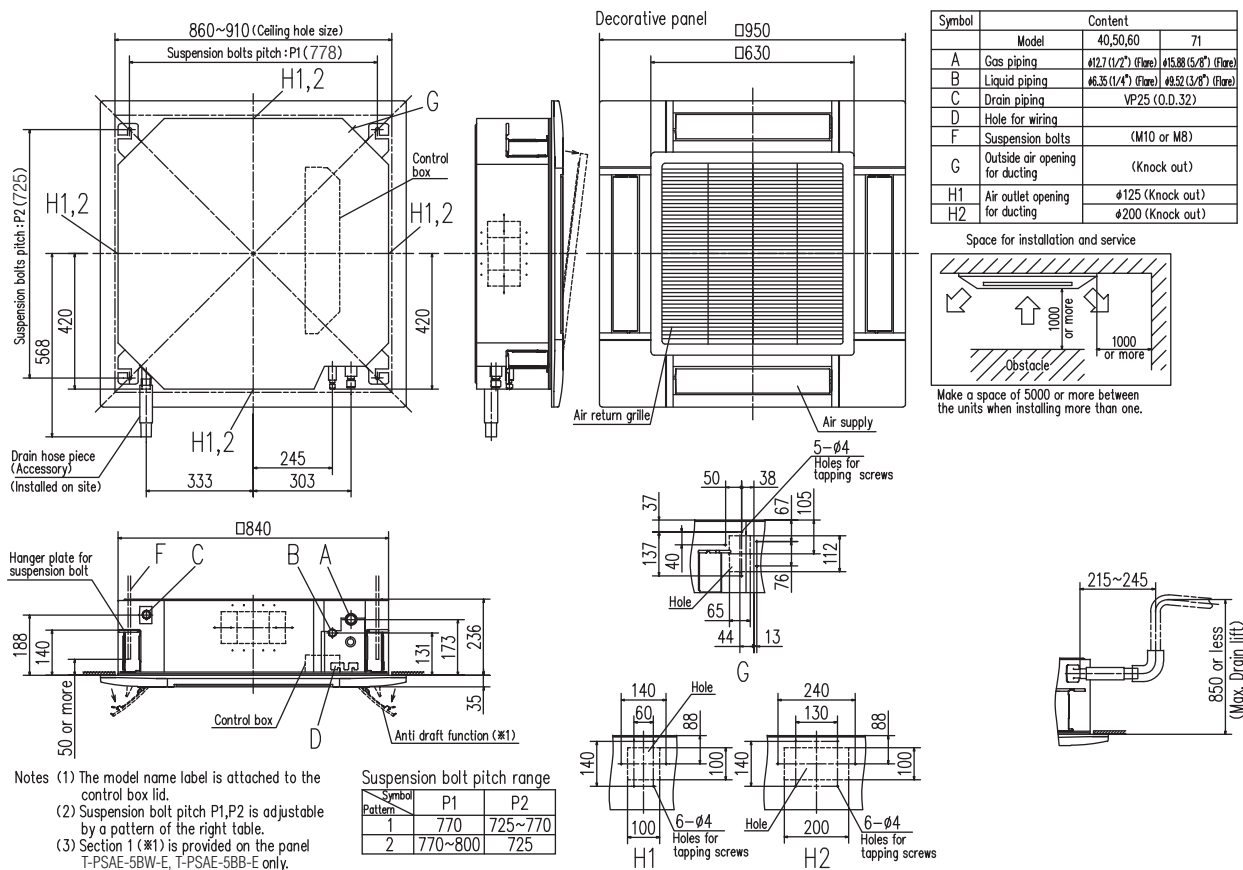
drain cap



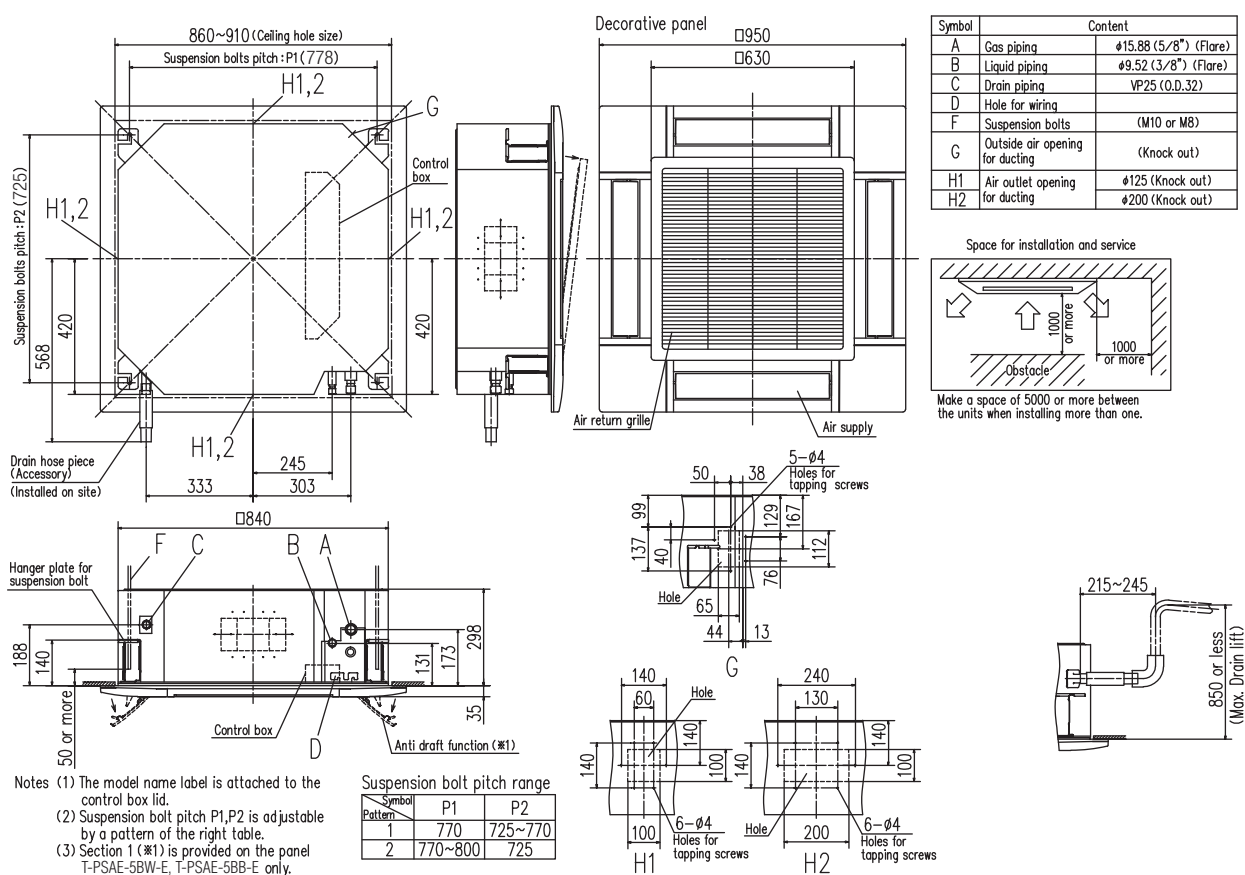
drain pump port

## DIMENSIONS (Unit:mm) - FDT -

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



### Models FDT100VH, 125VH, 140VH



R32			Hyper Inverter				
Set model name			FDT40ZSXW1VH	FDT50ZSXW2VH	FDT60ZSXW1VH	FDT71VNXWVH	
Indoor unit			FDT40VH	FDT50VH	FDT60VH	FDT71VH	
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W2	SRC60ZSX-W1	FDC71VNX-W	
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 ~ 6.7 )	8.0 ( 3.6 ~ 9.0 )	
Power consumption	Cooling/Heating	kW	0.890 / 1.03	1.29 / 1.31	1.33 / 1.56	1.69 / 1.75	
EER/COP	Cooling/Heating		4.49 / 4.37	3.88 / 4.12	4.21 / 4.29	4.20 / 4.58	
Inrush current		A	5	5	5	5	
Max. current			15	15	15	19.1	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	50 / 50	55 / 56	58 / 59	59 / 60
	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	46 / 34 / 31 / 26
		Heating (P-Hi/Hi/Me/Lo)		36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26
Air flow	Outdoor	Cooling/Heating	52 / 50	52 / 50	53 / 54	51 / 51	
		Cooling (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	
	Indoor	Heating (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	
		Outdoor	Cooling/Heating	33 / 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	°CDB	-15~46*2			-15~50*2	
	Heating	°CWB	-20~20				
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2				

R32			Hyper Inverter		
Set model name			FDT100VNXWVH	FDT125VNXWVH	FDT140VNXWVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW 10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)			kW 11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption		Cooling/Heating	kW 2.28 / 2.48	3.21 / 3.43	3.87 / 4.20
EER/COP		Cooling/Heating	4.38 / 4.52	3.89 / 4.08	3.62 / 3.81
Inrush current			A 5	5	5
Max. current			25	27	27
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Indoor	Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	53 / 51	53 / 54	54 / 54
	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	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		97		
Ref.piping size			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.100		
Vertical height differences			Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-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.



## SPECIFICATIONS -FDT-

R32			Hyper Inverter		
Set model name			FDT100VSXWVH	FDT125VSXWVH	FDT140VSXWVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)			11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption			2.28 / 2.48	3.21 / 3.43	3.87 / 4.20
EER/COP			4.38 / 4.52	3.89 / 4.08	3.62 / 3.81
Inrush current			5	5	5
Max. current			14	14	14
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
Air flow	Indoor	Cooling/Heating	53 / 51	53 / 54	54 / 54
	Outdoor	Cooling/Heating	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
Exterior dimensions			Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
Net weight			1,300 x 970 x 370		
Ref.piping size			30(Unit:25 Standard Panel:5)		
Refrigerant line (one way) length			99		
Vertical height differences			9.52(3/8") / 15.88(5/8")		
Outdoor operating temperature range			Max.100		
Panel			Max.50 / Max.15		
Air filter, Q'ty			-15~50*2		
Remote control (option)			-20~20		
			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
			Pocket plastic net x 1(Washable)		
			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

The values are for simultaneous Multi operation.

R32			Hyper Inverter				
Set model name			FDT71VNXWPVH	FDT100VNXWPVH	FDT125VNXWPVH	FDT140VNXWPVH	FDT140VNXWTVH
Indoor unit			Twin				
Outdoor unit			Triple				
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)			8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption			1.61 / 1.83	2.30 / 2.64	2.98 / 3.03	3.44 / 3.64	3.48 / 3.74
EER/COP			4.40 / 4.38	4.35 / 4.25	4.19 / 4.62	4.07 / 4.40	4.02 / 4.28
Inrush current			5	5	5	5	5
Max. current			19.1	25	27	27	27
Sound power level*1	Indoor*3	Cooling/Heating	50 / 50	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating	66 / 66	67 / 67	68 / 70	69 / 71	69 / 71
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 / 34 / 31 / 26	41 / 33 / 30 / 26
	Outdoor	Heating (P-Hi/Hi/Me/Lo)	36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
Air flow	Indoor*3	Cooling/Heating	51 / 51	53 / 51	53 / 54	54 / 54	54 / 54
	Outdoor	Cooling/Heating	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
Exterior dimensions			Unit: 236 x 840 x 840 Panel: 35 x 950 x 950				
Net weight			750 x 880(+88) x 340				
Ref.piping size			1,300 x 970 x 370				
Refrigerant line (one way) length			24(Unit:19 Standard Panel:5)				
Vertical height differences			60				
Outdoor operating temperature range			97				
Panel			9.52(3/8") / 15.88(5/8")				
Air filter, Q'ty			Max. 50				
Remote control (option)			Max.100				
			Max.30 / Max.15				
			-15~50*2				
			-20~20				
			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)				
			Pocket plastic net x 1(Washable)				
			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2				

### NOTES:

The data are measured under the following conditions(R32:ISO-T1,-H1 / R410A: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.

FDT | Indoor Unit

R32		HyperInverter			
Set model name		FDT100VSXWPVH	FDT125VSXWPVH	FDT140VSXWPVH	FDT140VSXWTVH
		Twin			Triple
Indoor unit		FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3
Outdoor unit		FDC100VSX-W	FDC125VSX-W	FDC140VSX-W	FDC140VSX-W
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption	Cooling/Heating	kW 2.30 / 2.64	2.98 / 3.03	3.44 / 3.64	3.48 / 3.74
EER/COP	Cooling/Heating	4.35 / 4.25	4.19 / 4.62	4.07 / 4.40	4.02 / 4.28
Inrush current	A	5	5	5	5
Max. current		14	14	14	14
Sound power level*1	Indoor*3	Cooling/Heating	55 / 56	58 / 59	59 / 60
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26
		Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26
	Outdoor	Cooling/Heating	53 / 51	53 / 50	54 / 54
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
		Heating (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	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		99		
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.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

R410A		HyperInverter			
Set model name		FDT40ZSXVH	FDT50ZSXVH	FDT60ZSXVH	FDT71VNXVH
Indoor unit		FDT40VH	FDT50VH	FDT60VH	FDT71VH
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	1.96 / 1.91
EER/COP	Cooling/Heating	4.30 / 4.37	3.88 / 4.12	3.68 / 4.29	3.62/4.19
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
	Outdoor	Cooling/Heating	63 / 63	63 / 63	65 / 64
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)	36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23
	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11
		Heating (P-Hi/Hi/Me/Lo)	19 / 16 / 13 / 10	22 / 16 / 13 / 10	26 / 17 / 14 / 11
	Outdoor	Cooling/Heating	36 / 33	39 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	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)	26(Unit:21 Standard Panel:5)	750 x 880(+88) x 340
	Outdoor		45	60	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m	Max.30		
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

## SPECIFICATIONS -FDT-

R410A			Hyper Inverter		
Set model name			FDT100VNXVH	FDT125VNXVH	FDT140VNXVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VNX	FDC125VNX	FDC140VNX
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption			2.50 / 2.58	3.42 / 3.43	4.58 / 4.20
EER/COP			4.00 / 4.34	3.65 / 4.08	3.06 / 3.81
Inrush current			5	5	5
Max. current			24	26	26
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Indoor	Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
	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	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		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	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

R410A			Hyper Inverter		
Set model name			FDT100VSXVH	FDT125VSXVH	FDT140VSXVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VSX	FDC125VSX	FDC140VSX
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption			2.50 / 2.58	3.42 / 3.43	4.58 / 4.20
EER/COP			4.00 / 4.34	3.65 / 4.08	3.06 / 3.81
Inrush current			5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Indoor	Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52
	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	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		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	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-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.

FDT | Indoor Unit

R410A			Hyper Inverter					
Set model name			FDT71VNXPVH	FDT100VNXPVH	FDT125VNXPVH	FDT140VNXPVH	FDT140VNXTVH	
			Twin				Triple	
Indoor unit			FDT40VH x 2	FDT50VH x 2	FDT60VH x 2	FDT71VH 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	59 / 60	55 / 56
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	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 / 34 / 31 / 26	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)		36 / 33 / 28 / 20	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	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	°CDB		-15~43*2				
	Heating	°CWB		-20~20				
Panel				T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)				
Air filter, Q'ty				Pocket plastic net x 1(Washable)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2				

The values are for simultaneous Multi operation.

R410A			Hyper Inverter			
Set model name			FDT100VSXPVH	FDT125VSXPVH	FDT140VSXPVH	FDT140VSXTVH
			Twin			Triple
Indoor unit			FDT50VH x 2	FDT60VH x 2	FDT71VH 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	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
Air flow	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	49 / 52
	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	22 / 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)		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	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~43*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

## SPECIFICATIONS -FDT-

R32			Micro Inverter		
Set model name			FDT100VNAWVH	FDT125VNAWVH	FDT140VNAWVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.73 / 2.54	4.05 / 3.59	4.79 / 4.18
EER/COP			3.66 / 4.41	3.09 / 3.90	2.84 / 3.71
Inrush current			5	5	5
Max. current			24	24	24
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Indoor	Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58
	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		77		
Ref.piping size			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.50		
Vertical height differences			Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

R32			Micro Inverter		
Set model name			FDT100VSAWVH	FDT125VSAWVH	FDT140VSAWVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.73 / 2.54	4.05 / 3.59	4.79 / 4.18
EER/COP			3.66 / 4.41	3.09 / 3.90	2.84 / 3.71
Inrush current			5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Indoor	Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58
	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		78		
Ref.piping size			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.50		
Vertical height differences			Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-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.

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

The values are for simultaneous Multi operation.

FDT | Indoor Unit

R32			Micro Inverter			
Set model name			FDT100VNAWPVH	FDT125VNAWPVH	FDT140VNAWPVH	FDT140VNAWTVH
			Twin		Triple	
Indoor unit			FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W	FDC140VNA-W
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 / 2.73	3.79 / 3.31	4.22 / 3.57	4.22 / 3.57
EER/COP	Cooling/Heating		3.55 / 4.11	3.30 / 4.23	3.22 / 4.34	3.22 / 3.88
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	59 / 60
	Outdoor			Cooling/Heating	69 / 70	71 / 71
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26
		Heating (P-Hi/Hi/Me/Lo)		42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26
	Outdoor	Cooling/Heating		54 / 55	54 / 56	56 / 58
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
		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)		24(Unit:19 Standard Panel:5)
	Outdoor			77		
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	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

The values are for simultaneous Multi operation.

R32			Micro Inverter			
Set model name			FDT100VSAWPVH	FDT125VSAWPVH	FDT140VSAWPVH	FDT140VSAWTVH
			Twin		Triple	
Indoor unit			FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC140VSA-W
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 )	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 / 2.73	3.79 / 3.31	4.22 / 3.57	4.22 / 3.57
EER/COP	Cooling/Heating		3.55 / 4.11	3.30 / 4.23	3.22 / 4.34	3.22 / 3.88
Inrush current		A	5	5	5	5
Max. current			15	15	15	15
Sound power level*1	Indoor*3	Cooling/Heating	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58	56 / 58
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
	Outdoor	Cooling/Heating	75 / 73	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			78		
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	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			



## SPECIFICATIONS -FDT-

The values are for simultaneous Multi operation.

R32			Micro Inverter		
Set model name			FDT200VSAWPVH	FDT250VSAWPVH	FDT280VSAWPVH
			Twin		
Indoor unit			FDT100VH x 2	FDT125VH x 2	FDT140VH x 2
Outdoor unit			FDC200VSA-W	FDC250VSA-W	FDC280VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW		20.0 ( 6.8 ~ 22.4 )	25.0 ( 6.8 ~ 28.0 )	27.0 ( 7.5 ~ 31.5 )
Nominal heating capacity (Min~Max)	kW		22.4 ( 6.6 ~ 25.0 )	28.0 ( 5.7 ~ 31.5 )	30.0 ( 6.3 ~ 33.5 )
Power consumption	Cooling/Heating	kW	5.48 / 5.27	8.20 / 7.37	9.11 / 8.95
EER/COP	Cooling/Heating		3.65 / 4.25	3.05 / 3.80	2.96 / 3.35
Inrush current		A	5	5	5
Max. current			19	20	20
Sound power level*1	Indoor*3	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor		72 / 74	73 / 75	75 / 77
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
	Outdoor		47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
			58 / 59	58 / 62	61 / 63
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor		37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
			148 / 134	148 / 153	136 / 140
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		1,505 x 970 x 370		
Net weight	Indoor		30(Unit:25 Standard Panel:5)		
	Outdoor		144	145	155
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		Max.60
Vertical height differences	Outdoor is higher/lower	m	Max.50*4 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

The values are for simultaneous Multi operation.

R32			Micro Inverter			
Set model name			FDT200VSAWTVH	FDT200VSAWDVH	FDT250VSAWDVH	FDT280VSAWDVH
			Triple		Double Twin	
Indoor unit			FDT71VH x 3	FDT50VH x 4	FDT60VH x 4	FDT71VH x 4
Outdoor unit			FDC200VSA-W	FDC200VSA-W	FDC250VSA-W	FDC280VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)	kW		20.0 ( 7.6 ~ 22.4 )	20.0 ( 6.8 ~ 22.4 )	25.0 ( 5.2 ~ 28.0 )	27.0 ( 7.5 ~ 31.5 )
Nominal heating capacity (Min~Max)	kW		22.4 ( 6.6 ~ 25.0 )	22.4 ( 6.6 ~ 25.0 )	28.0 ( 7.2 ~ 31.5 )	30.0 ( 6.3 ~ 33.5 )
Power consumption	Cooling/Heating	kW	5.56 / 5.27	5.78 / 5.80	7.30 / 6.80	7.77 / 8.60
EER/COP	Cooling/Heating		3.60 / 4.25	3.46 / 3.86	3.42 / 4.12	3.47 / 3.49
Inrush current		A	5	5	5	5
Max. current			19	19	20	20
Sound power level*1	Indoor*3	Cooling/Heating	59 / 60	55 / 56	58 / 59	59 / 60
	Outdoor		72 / 74	72 / 74	73 / 75	75 / 77
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26
	Outdoor		46 / 34 / 31 / 26	42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26
			58 / 59	58 / 59	58 / 62	61 / 63
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor		28 / 18 / 15 / 12	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
			148 / 134	148 / 134	148 / 153	136 / 140
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		1,505 x 970 x 370			
Net weight	Indoor		26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	
	Outdoor		144	145	155	
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			Max.60
Vertical height differences	Outdoor is higher/lower	m	Max.50*4 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-20~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 /, R410A: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)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

R410A			Micro Inverter		
Set model name			FDT100VNAVH	FDT125VNAVH	FDT140VNAVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.73 / 2.64	4.05 / 3.74	5.09 / 4.43
EER/COP			3.26 / 4.26	3.09 / 3.74	2.67 / 3.50
Inrush current			5	5	5
Max. current			24	24	24
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
		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	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

R410A			Micro Inverter		
Set model name			FDT100VSAVH	FDT125VSAVH	FDT140VSAVH
Indoor unit			FDT100VH	FDT125VH	FDT140VH
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.73 / 2.63	4.05 / 3.74	5.09 / 4.43
EER/COP			3.66 / 4.26	3.09 / 3.74	2.67 / 3.50
Inrush current			5	5	5
Max. current			15	15	15
Sound power level*1	Indoor	Cooling/Heating	62 / 62	63 / 64	63 / 64
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 30	48 / 41 / 39 / 31	48 / 42 / 39 / 32
		Heating (P-Hi/Hi/Me/Lo)	47 / 39 / 36 / 29	48 / 41 / 38 / 31	48 / 41 / 38 / 31
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
		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	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

## SPECIFICATIONS -FDT-

The values are for simultaneous Multi operation.

R410A			Micro Inverter				
Set model name			FDT100VNAPVH	FDT125VNAPVH	FDT140VNAPVH	FDT140VNATVH	
			Twin		Triple		
Indoor unit			FDT50VH x 2	FDT60VH x 2	FDT71VH 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 / 3.72	4.22 / 3.29	
EER/COP	Cooling/Heating		3.55 / 3.86	3.30 / 4.23	3.22 / 4.17	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	59 / 60	55 / 56
	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 / 34 / 31 / 26	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)		42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	57 / 59
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		m³/min	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
		Heating (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10		26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
	Outdoor	Cooling/Heating	75 / 73		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	m	Max.50 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2				
	Heating	°CWB	-20~20				
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2				

The values are for simultaneous Multi operation.

R410A			Micro Inverter				
Set model name			FDT100VSAPVH	FDT125VSAPVH	FDT140VSAPVH	FDT140VSATVH	
			Twin		Triple		
Indoor unit			FDT50VH x 2	FDT60VH x 2	FDT71VH x 2	FDT50VH x 3	
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA	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 )	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 / 3.72	4.22 / 3.29	
EER/COP	Cooling/Heating		3.55 / 3.86	3.30 / 4.23	3.22 / 4.17	3.22 / 4.71	
Inrush current		A	5	5	5	5	
Max. current			15	15	15	15	
Sound power level * <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	dB(A)	55 / 56	58 / 59	59 / 60	55 / 56
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	73 / 73
Sound pressure level * <sup>1</sup>	Indoor* <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)		41 / 33 / 30 / 26	44 / 34 / 30 / 27	46 / 34 / 31 / 26	41 / 33 / 30 / 26
		Heating (P-Hi/Hi/Me/Lo)		42 / 33 / 28 / 20	44 / 34 / 30 / 23	46 / 34 / 31 / 26	42 / 33 / 28 / 20
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	57 / 59
Air flow	Indoor* <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)		m³/min	22 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
		Heating (P-Hi/Hi/Me/Lo)	22 / 16 / 13 / 10		26 / 17 / 14 / 11	28 / 18 / 15 / 12	22 / 16 / 13 / 10
	Outdoor	Cooling/Heating	75 / 73		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			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	°CDB	-15~50* <sup>2</sup>				
	Heating	°CWB	-20~20				
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2				

### NOTES:

The data are measured under the following conditions(R410A : 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.

FDT | Indoor Unit

R410A			Micro Inverter	
Set model name			FDT200VSAPVH	FDT250VSAPVH
			Twin	
Indoor unit			FDT100VH x 2	FDT125VH x 2
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	6.25 / 6.02	8.36 / 7.15
EER/COP	Cooling/Heating		3.04 / 3.72	2.87 / 3.78
Inrush current		A	5	5
Max. current			20	21
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	dB(A)	62 / 62	63 / 64
	Outdoor		72 / 74	73 / 75
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>		47 / 39 / 36 / 30	48 / 41 / 39 / 31
	Outdoor		47 / 39 / 36 / 29	48 / 41 / 38 / 31
Air flow	Indoor* <sup>3</sup>	m <sup>3</sup> /min	58 / 59	59 / 62
	Cooling (P-Hi/Hi/Me/Lo)		37 / 26 / 23 / 17	38 / 28 / 25 / 18
	Heating (P-Hi/Hi/Me/Lo)		37 / 26 / 23 / 17	38 / 28 / 25 / 18
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor		1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor	kg	30(Unit:25 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	°CDB	-15~50* <sup>2</sup>	
	Heating	°CWB	-15~20	
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2	

The values are for simultaneous Multi operation.

R410A			Micro Inverter			
Set model name			FDT200VSATVH	FDT200VSADVH	FDT250VSADVH	
			Triple	Double Twin		
Indoor unit			FDT71VH 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	dB(A)	59 / 60	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 / 34 / 31 / 26	41 / 33 / 30 / 26	44 / 34 / 30 / 27
			Heating (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26	42 / 33 / 28 / 20	44 / 34 / 30 / 23
Air flow	Outdoor	Cooling/Heating	58 / 59	58 / 59	59 / 62	
	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	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	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*2			
	Heating	°CWB	-15~20			
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2			



## SPECIFICATIONS -FDT-

R32			Standard Inverter		
Set model name			FDT71VNPVH	FDT90VNPVH	FDT100VNPVH
Indoor unit			FDT71VH	FDT100VH	FDT100VH
Outdoor unit			FDC71VNP-W	FDC90VNP-W	FDC100VNP-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )
Power consumption		Cooling/Heating	2.31 / 1.73	2.48 / 1.90	2.84 / 2.33
EER/COP		Cooling/Heating	3.07 / 4.10	3.63 / 4.74	3.52 / 4.29
Inrush current		A	5	5	5
Max. current			15.8	19	19
Sound power level*1	Indoor	Cooling/Heating	59 / 60	62 / 62	62 / 62
	Outdoor	Cooling/Heating	67 / 67	67 / 66	68 / 67
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26	47 / 39 / 36 / 30	47 / 39 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26	47 / 39 / 36 / 29	47 / 39 / 36 / 29
Air flow	Outdoor	Cooling/Heating	54 / 54	55 / 53	56 / 54
		Cooling (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	36 / 26 / 23 / 17
	Indoor	Heating (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	36 / 26 / 23 / 17
		Outdoor	Cooling/Heating	42 / 42	59 / 55
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor			Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
Net weight	Indoor		kg	640 x 800(+71) x 290	
	Outdoor			750 x 880(+88) x 340	
				26(Unit:21 Standard Panel:5)	
				30(Unit:25 Standard Panel:5)	
				45	
				57	
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	°CDB	-15~-46*2	
		Heating	°CWB	-15~20	
Panel				T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)	
Air filter, Q'ty				Pocket Plastic net x1(Washable)	
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2	

R410A			Standard Inverter		
Set model name			FDT71VNPVH	FDT90VNP1VH	FDT100VNP1VH
Indoor unit			FDT71VH	FDT100VH	FDT100VH
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	21
Sound power level*1	Indoor	Cooling/Heating	59 / 60	62 / 62	62 / 62
	Outdoor		Cooling/Heating	67 / 67	69 / 69
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26	47 / 39 / 36 / 30	47 / 39 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)	46 / 34 / 31 / 26	47 / 39 / 36 / 29	47 / 39 / 36 / 29
Air flow	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
		Cooling (P-Hi/Hi/Me/Lo)	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17
	Indoor	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
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 Panel: 35 x 950 x 950	
	Outdoor			640 x 800(+71) x 290	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950
Net weight	Indoor		kg	26(Unit:21 Standard Panel:5)	750 x 880(+88) x 340
	Outdoor			45	30(Unit:25 Standard Panel:5)
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	845 x 970 x 370
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	°CDB	-15~-46*2		
	Heating	°CWB	-15~20		
Panel			T-PSA-5BW-E, T-PSAE-5BW-E(White) / T-PSA-5BB-E, T-PSAE-5BB-E(Black)		
Air filter, Q'ty			Pocket Plastic net x1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5BW-E2, RCN-T-5BB-E2		

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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.



# FDTC

Indoor Unit

## Ceiling Cassette -4way Compact

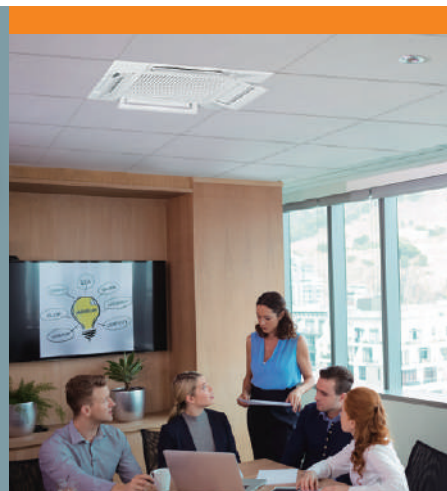


FDTC 40/50/60

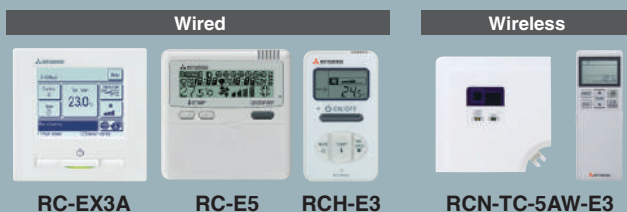


Draft Prevention Panel (Option)

New



### Remote control (option)

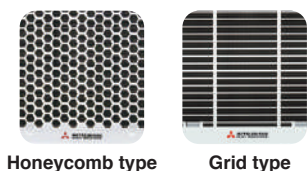


\*Not all functions available with all remote control options.

## European Design & Flat Panel

### Unique Grille Design

A grille designed with a unique structure and a clean white panel that blends with the room.

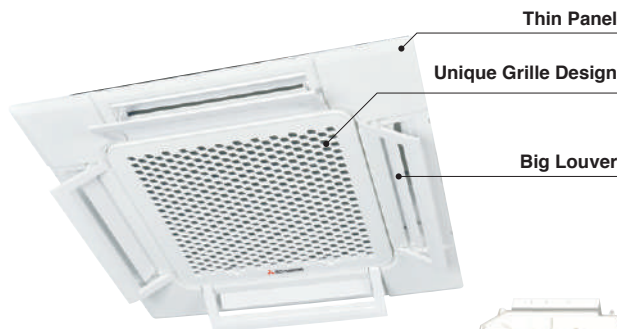
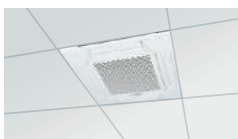


Honeycomb type

Grid type

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

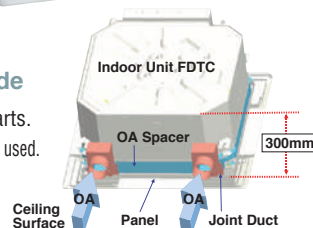
It's only 14kg  
Height of thin panel and main body is only 248mm allowing a very easy installation.



### Taking OA (Outside Air) into inside

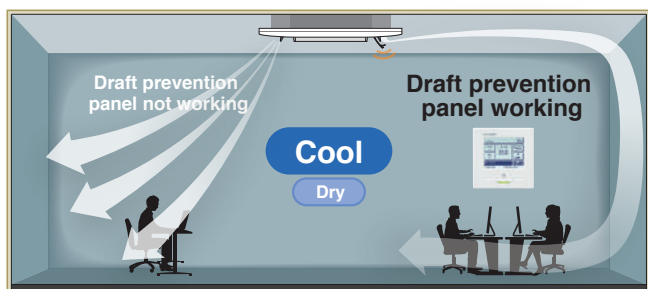
Fresh air can be taken in without optional parts.  
When the fresh air is insufficient, optional parts can be used.

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.



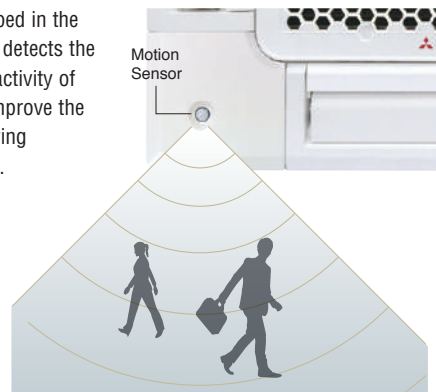
User can position panels by using the remote controller only (RC-EX3A, Wireless kit) when Draft Prevention Panel is available.

## Motion Sensor (Option)

Motion sensor is equipped in the corner of 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.



LB-TC-5W-E

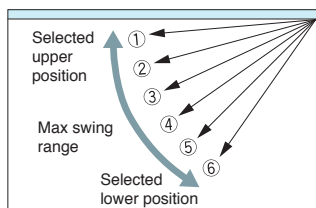




## Individual Flap Control System

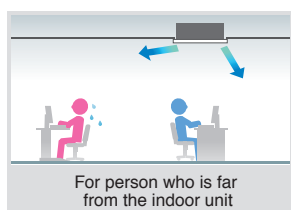


According to room temperature conditions, four directions of air flow can be controlled individually by following Flap control system. Individual flap control is available even after installation.

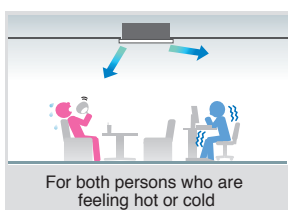


The flap can swing within the range of upper and lower flap position selected with wired remote control.

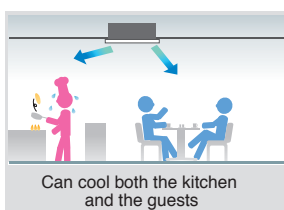
\* The wireless remote control is not applicable to the Individual flap control system.



For person who is far from the indoor unit



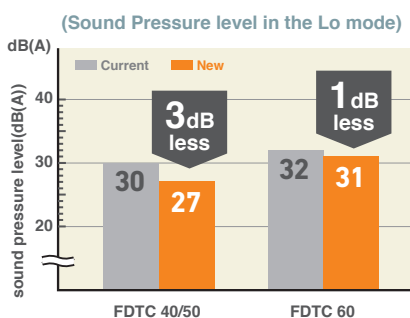
For both persons who are feeling hot or cold



Can cool both the kitchen and the guests

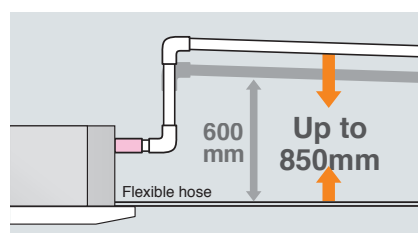
## Quieter Operation

Adopting new turbo fan and improving new heat exchanger enables noise reduction.



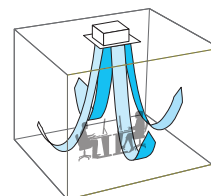
## 850mm Drain Pump

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.



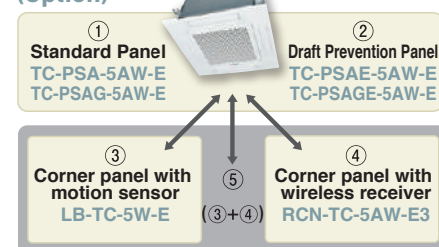
## Suitable for High ceilings

The Powerful blowout carries comfortable air flow to the floor even in high ceiling applications. It is ideal for high ceiling offices, stores, etc., with a wide, uniform air flow throughout the room.



## Panel Select Pattern

(Option)



8 patterns of panel are available.

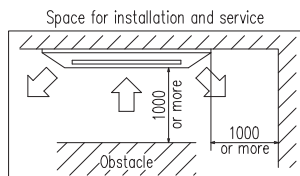
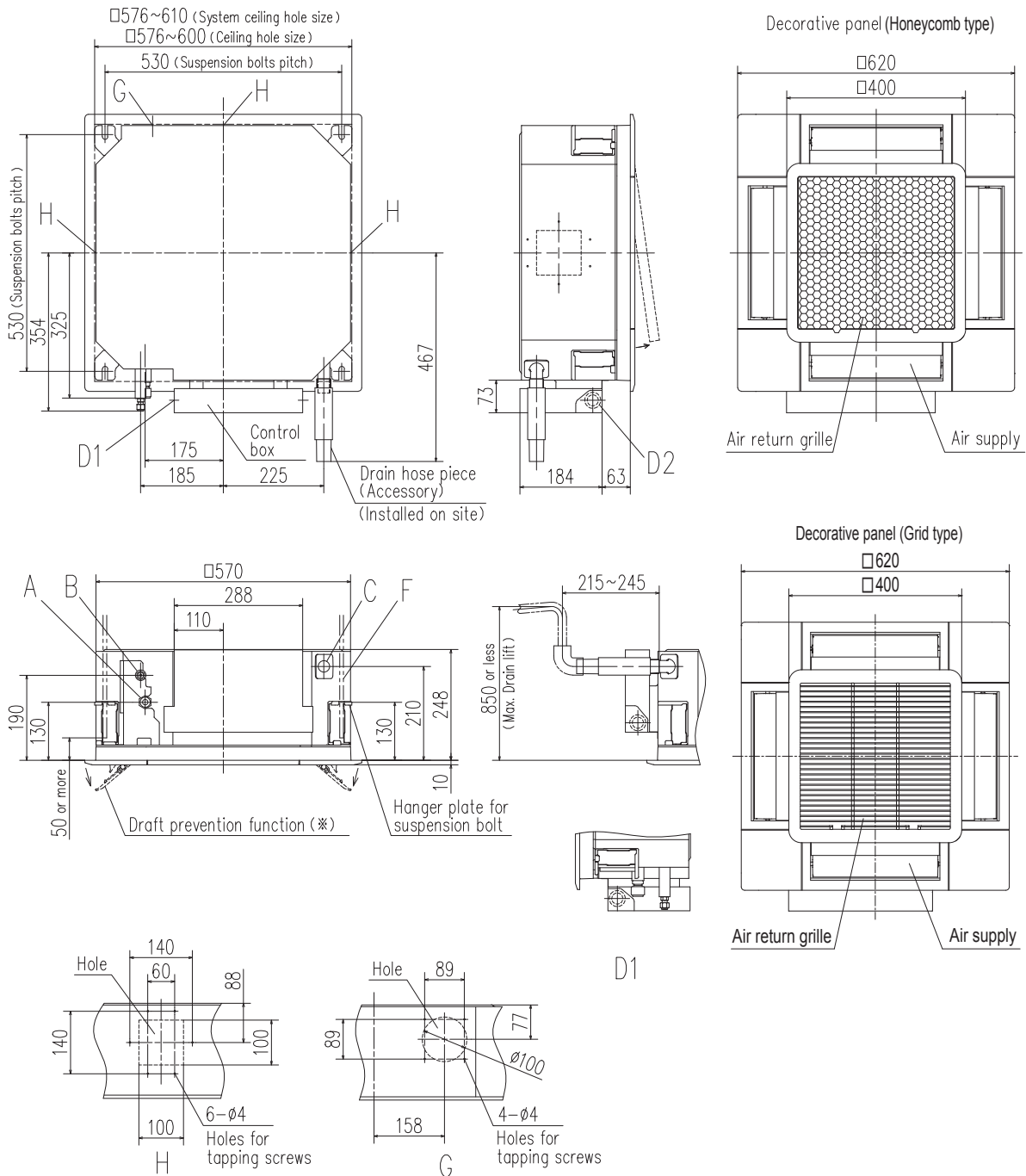
①	Standard Panel only
①+③	Standard Panel with corner panel with motion sensor
①+④	Standard Panel with corner panel with wireless receiver
①+⑤	Standard Panel with corner panel with motion sensor & corner panel with wireless receiver
②	Draft Prevention Panel only
②+③	Draft Prevention Panel with corner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

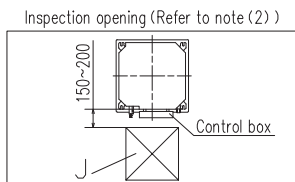
		Hyper Inverter		
SRC · FDC		40~60ZSX-W1,-W2	71VNX-W	100~140VN(S)X-W
		40~60ZSX-S	71VNX	100~140VN(S)X
model				
Chargeless		15m	30m	
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter		
FDC		100~140VN(S)A-W	—	200~250VSA-W
		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





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



- Notes (1) The model name label is attached to the control box lid.  
 (2) This unit is designed for 2x2 grid ceiling.  
 If it is installed on a ceiling other than 2x2 grid ceiling, provide an inspection opening on the control box side.  
 (3) Draft prevention function (\*) is provided on the panel TC-PSAE-5AW-E, TC-PSAGE-5AW-E only.

Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C	Drain piping	VP25 (O.D.32)
D1	Power supply connection	
D2	Remote control code and signal wiring connection	
F	Suspension bolts	(M10 or M8)
G	Outside air opening for ducting	(Knock out)
H	Air outlet opening for ducting	φ125 (Knock out)
J	Inspection opening	450X450

R32			Hyper Inverter		
Set model name			FDTC40ZSXW1VH	FDTC50ZSXW2VH	FDTC60ZSXW1VH
Indoor unit			FDTC40VH	FDTC50VH	FDTC60VH
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W2	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)	dB(A) 44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Indoor	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
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min 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	33 / 33	39 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor		640 x 800(+71) x 290		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		45		
Ref.piping size Liquid/Gas			ømm 6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length			m Max.30		
Vertical height differences Outdoor is higher/lower			m Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3		

The values are for simultaneous Multi operation.

R32				HyperInverter			
Set model name				FDTC71VNXWPVH	FDTC100VNXWPVH	FDTC125VNXWPVH	FDTC140VNXWTVH
				Twin			Triple
Indoor unit			FDTC40VH x 2	FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3	
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )	
Power consumption	Cooling/Heating	kW	1.73 / 1.83	2.60 / 3.04	3.67 / 4.05	3.96 / 4.34	
EER/COP	Cooling/Heating		4.12 / 4.37	3.84 / 3.69	3.41 / 3.45	3.54 / 3.69	
Inrush current		A	5	5	5	5	
Max. current			19.1	25	27	27	
Sound power level*1	Indoor*3	dB(A)	Cooling/Heating	59 / 59	59 / 59	60 / 60	59 / 59
	Outdoor		Cooling/Heating	66 / 66	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor*3		Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
			Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
Air flow	Outdoor		Cooling/Heating	51 / 51	53 / 51	53 / 54	54 / 54
	Indoor*3	m³/min	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
			Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor		Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620			
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)			
	Outdoor			60	97		
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	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2				
	Heating	°CWB	-20~20				
Panel				TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)			
Air filter, Q'ty				Pocket plastic net x 1(Washable)			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-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.  
\*3 : The values are for one indoor unit operation. (Multi system only)

## SPECIFICATIONS -FDTC-

The values are for simultaneous Multi operation.

R32			Hyper Inverter		
Set model name			FDTC100VSXWPH	FDTC125VSXWPH	FDTC140VSXWPH
			Twin		Triple
Indoor unit			FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption	Cooling/Heating	kW	2.60 / 3.04	3.67 / 4.05	3.96 / 4.34
EER/COP	Cooling/Heating		3.84 / 3.69	3.41 / 3.45	3.54 / 3.69
Inrush current		A	5	5	5
Max. current			14	14	14
Sound power level*1	Indoor*3	Cooling/Heating	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating			
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	53 / 51	53 / 54	54 / 54
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		99		
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.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3		

R410A			Hyper Inverter		
Set model name			FDTC40ZSXVH	FDTC50ZSXVH	FDTC60ZSXVH
Indoor unit			FDTC40VH	FDTC50VH	FDTC60VH
Outdoor unit			SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)		kW	4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 6.7 )
Power consumption	Cooling/Heating	kW	0.98 / 1.13	1.43 / 1.53	1.76 / 2.14
EER/COP	Cooling/Heating		4.08 / 3.98	3.50 / 3.53	3.18 / 3.13
Inrush current		A	5	5	5
Max. current			12	15	15
Sound power level*1	Indoor	Cooling/Heating	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating			
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
		Heating (P-Hi/Hi/Me/Lo)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
		Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	Cooling/Heating	36 / 33	40 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor		640 x 800(+71) x 290		
Net weight	Indoor		16.5(Unit:14 Standard Panel:2.5)		
	Outdoor		45		
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m	Max.30		
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3		

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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			Hyper Inverter				
Set model name			FDTC71VNXPVH	FDTC100VNXPVH	FDTC125VNXPVH	FDTC140VNXTVH	
			Twin			Triple	
Indoor unit			FDTC40VH x 2	FDTC50VH x 2	FDTC60VH x 2	FDTC50VH 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 )	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 / 1.64	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34	
EER/COP	Cooling/Heating	A	3.50 / 4.88	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69	
Inrush current			5	5	5	5	
Max. current			17	24	24	26	
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	59 / 59	59 / 59	60 / 60	59 / 59
	Outdoor			Cooling/Heating	66 / 66	70 / 70	70 / 70
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	dB(A)	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor			Cooling/Heating	51 / 48	48 / 50	48 / 50
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)		13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620			
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)			
	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	°CDB	-15~43*2				
	Heating	°CWB	-20~20				
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3				

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	°CDB	-15~43*2		
	Heating	°CWB	-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3		



## SPECIFICATIONS -FDTC-

The values are for simultaneous Multi operation.

R32		Micro Inverter		
Set model name		FDTC100VNAWPVH	FDTC125VNAWPVH	FDTC140VNAWTVH
		Twin		Triple
Indoor unit		FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3
Outdoor unit		FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
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	3.15 / 3.05	4.90 / 4.30	4.75 / 4.60
EER/COP	Cooling/Heating	3.17 / 3.67	2.55 / 3.26	2.86 / 3.37
Inrush current		5	5	5
Max. current		24	24	24
Sound power level*1	Indoor*3	59 / 59	60 / 60	59 / 59
	Outdoor	69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor*3	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	54 / 55	54 / 56	56 / 58
Air flow	Indoor*3	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	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	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	77		
Ref.piping size	Liquid/Gas	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		Max.50		
Vertical height differences	Outdoor is higher/lower	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	-15~50*2		
	Heating	-20~20		
Panel		TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty		Pocket plastic net x 1(Washable)		
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E3		

The values are for simultaneous Multi operation.

R32			Micro Inverter															
Set model name			FDTC100VSAWPVH		FDTC125VSAWPVH		FDTC140VSAWTVH		FDTC200VSAWDVH		FDTC250VSAWDVH							
			Twin				Triple		Double Twin									
Indoor unit			FDTC50VH x 2		FDTC60VH x 2		FDTC50VH x 3		FDTC50VH x 4		FDTC60VH x 4							
Outdoor unit			FDC100VSA-W		FDC125VSA-W		FDC140VSA-W		FDC200VSA-W		FDC250VSA-W							
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 )		20.0 ( 7.1 ~ 22.4 )		25.0 ( 7.1 ~ 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 ( 6.6 ~ 25.0 )		28.0 ( 5.2 ~ 31.5 )					
Power consumption		Cooling/Heating	kW		3.15 / 3.05		4.90 / 4.30		4.75 / 4.60		6.92 / 6.37		9.43 / 8.75					
EER/COP		Cooling/Heating			3.17 / 3.67		2.55 / 3.26		2.86 / 3.37		2.89 / 3.52		2.65 / 3.20					
Inrush current			A		5		5		5		5		5					
Max. current					15		15		15		19		20					
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)		59 / 59		60 / 60		59 / 59		59 / 59		60 / 60					
	Outdoor	Cooling/Heating			69 / 70		71 / 71		72 / 73		72 / 74		73 / 75					
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)			44 / 40 / 35 / 27		46 / 42 / 38 / 31		44 / 40 / 35 / 27		44 / 40 / 35 / 27		46 / 42 / 38 / 31					
		Heating (P-Hi/Hi/Me/Lo)			44 / 40 / 35 / 27		46 / 42 / 38 / 31		44 / 40 / 35 / 27		44 / 40 / 35 / 27		46 / 42 / 38 / 31					
Air flow	Outdoor	Cooling/Heating			54 / 55		54 / 56		56 / 58		58 / 59		58 / 62					
	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)			13 / 11 / 9 / 7		14 / 12 / 10 / 8		13 / 11 / 9 / 7		13 / 11 / 9 / 7		14 / 12 / 10 / 8					
			Heating (P-Hi/Hi/Me/Lo)	13 / 11 / 9 / 7		14 / 12 / 10 / 8		13 / 11 / 9 / 7		13 / 11 / 9 / 7		14 / 12 / 10 / 8						
		Outdoor	Cooling/Heating	75 / 73		75 / 73		75 / 73		148 / 134		148 / 153						
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620														
	Outdoor			845 x 970 x 370					1,505 x 970 x 370									
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)														
	Outdoor			78					144					145				
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.50*4 / Max.15						
Outdoor operating temperature range	Cooling	°CDB		-15-50*2														
	Heating	°CWB		-20-20														
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)															
Air filter, Q'ty			Pocket plastic net x 1(Washable)															
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E3															

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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)

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

The values are for simultaneous Multi operation.

**FDTC** | **Indoor Unit**

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* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	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* <sup>3</sup>	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	°CDB	-15~50* <sup>2</sup>		
	Heating	°CWB	-20~20		
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)		
Air filter, Q'ty			Pocket plastic net x 1(Washable)		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E3		

The values are for simultaneous Multi operation.

R410A			Micro Inverter					
Set model name			FDTC100VSAPVH	FDTC125VSAPVH	FDTC140VSATVH	FDTC200VSADVH	FDTC250VSADVH	
			Twin		Triple	Double Twin		
Indoor unit			FDTC50VH x 2	FDTC60VH x 2	FDTC50VH x 3	FDTC50VH x 4	FDTC60VH 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* <sup>1</sup>	Indoor* <sup>3</sup>	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* <sup>1</sup>	Indoor* <sup>3</sup>	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
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	58 / 59	61 / 62	
Air flow	Indoor* <sup>3</sup>	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			Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15-50* <sup>2</sup>					
	Heating	°CWB						
Panel			TC-PSA-5AW-E, TC-PSAE-5AW-E(Honeycomb) / TC-PSAG-5AW-E, TC-PSAGE-5AW-E(Grid)					
Air filter, Q'ty			Pocket plastic net x 1(Washable)					
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E3					

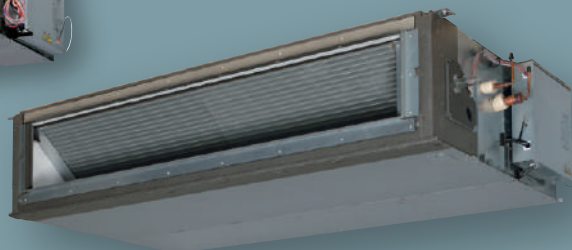
# FDU

Indoor Unit

Duct Connected -High Static pressure-



FDU 71/100/125/140



New FDU 200/250/280



Remote control (option)

Wired

Wireless



RC-EX3A  
RC-EXZ3A



RC-E5



RCH-E3



RCN-KIT4-E2

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

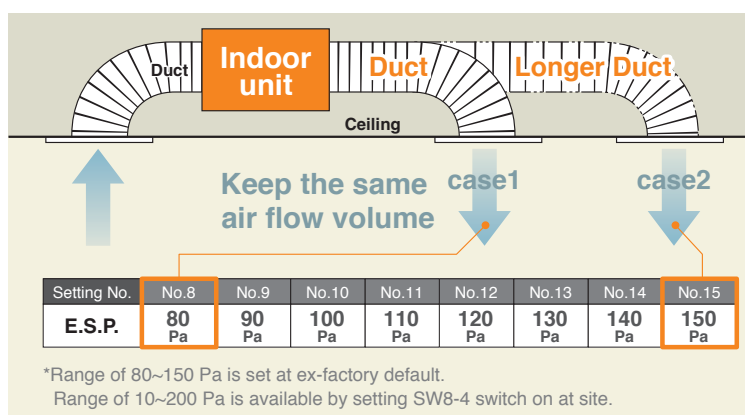
## External Static Pressure (E.S.P.) Control

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

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

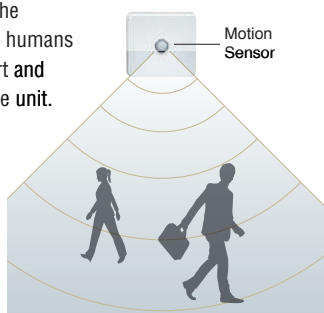
## Motion Sensor (Option)

New

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.

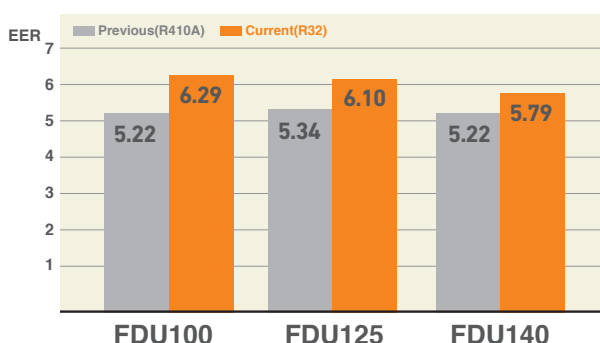


LB-KIT2



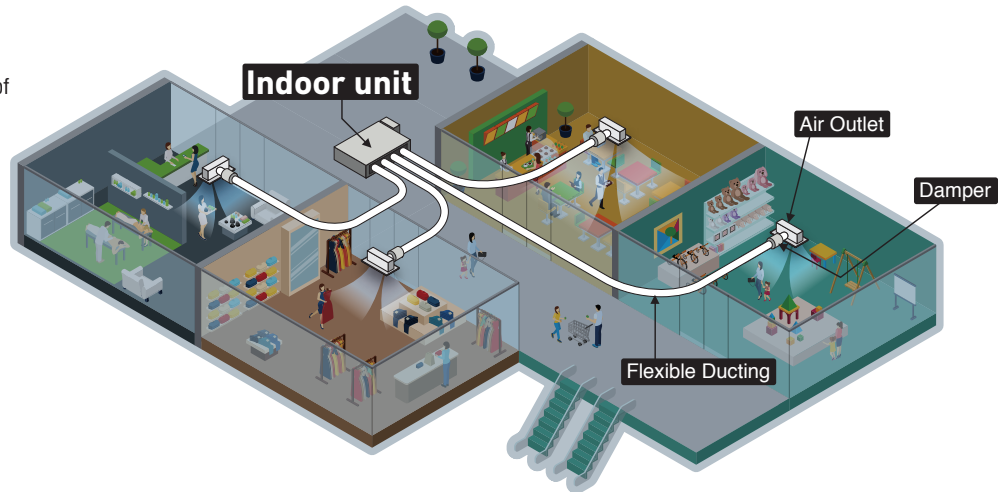
## High Efficiency

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



## Zoning system

Effectively control temperatures of multiple rooms with one indoor duct unit.



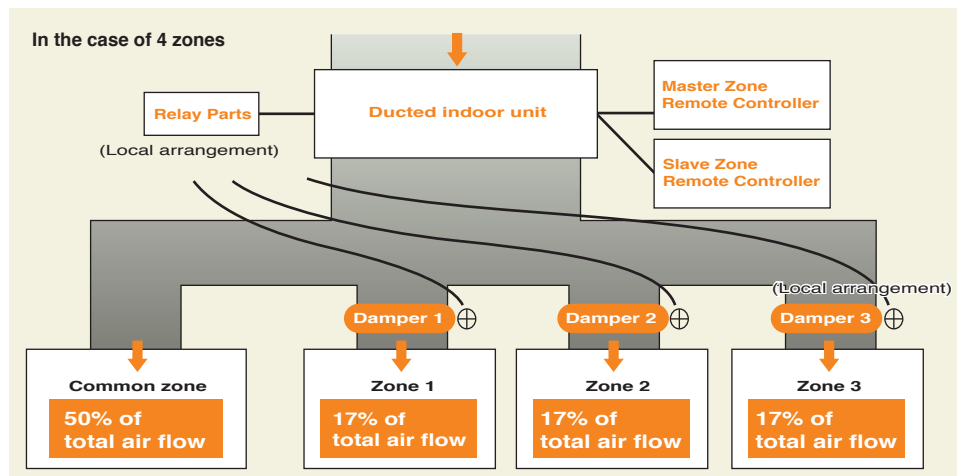
## Zone control function (Available for FDU71-140 and FDUM40-140)

These models have a zone control function that can control up to four zones.

The zones consist of one (\*1) common zone and up to three (\*2) spill zones.

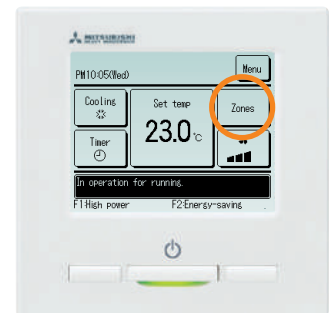
The damper of each zone can be opened or closed with the exclusive remote control (RC-EXZ3A).

Timer function to open/close the damper is also available.

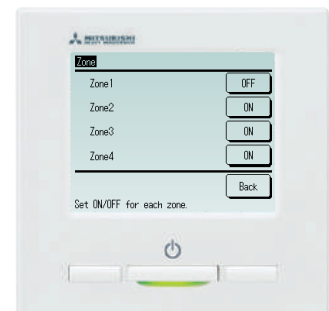


### RC-EXZ3A

Top display



Zone menu



#### Notes:

\*1: Common zone; A zone in which a damper is not installed.

\*2: Spill zone; A zone in which a damper open automatically.

Cannot control more than 4 zones.

Procure relevant parts such as relay parts, dampers, ducts, and wirings locally.

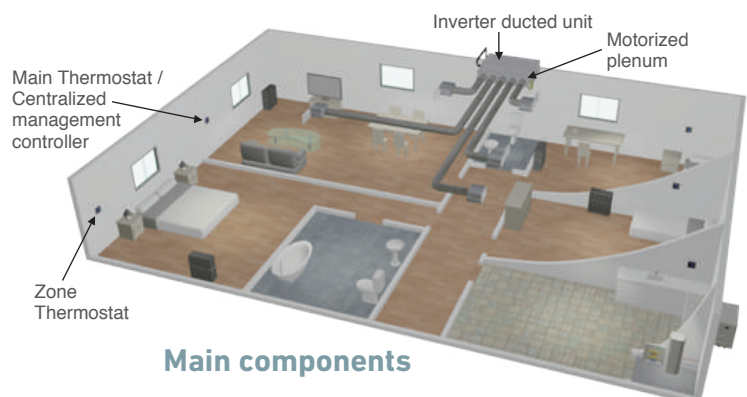
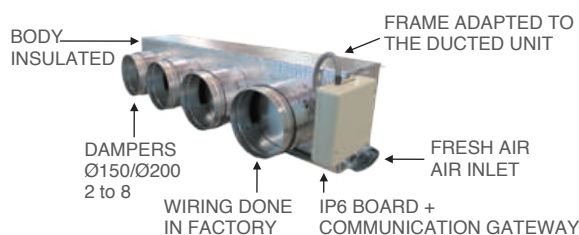
Design the duct so that each the common zone and the spill zones equal 50% of total air flow.

Ducts in the spill zones should have equal static pressure.

## Round Duct Adapter (Available for FDU71~140 and FDUM40~140)

**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

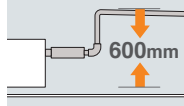


Main components



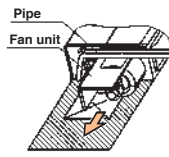
## Enhanced Installation Workability

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.



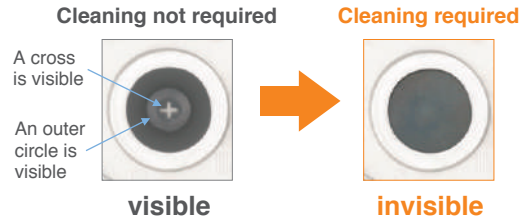
## Improvement of the Serviceability

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



## Transparent Inspection Window

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



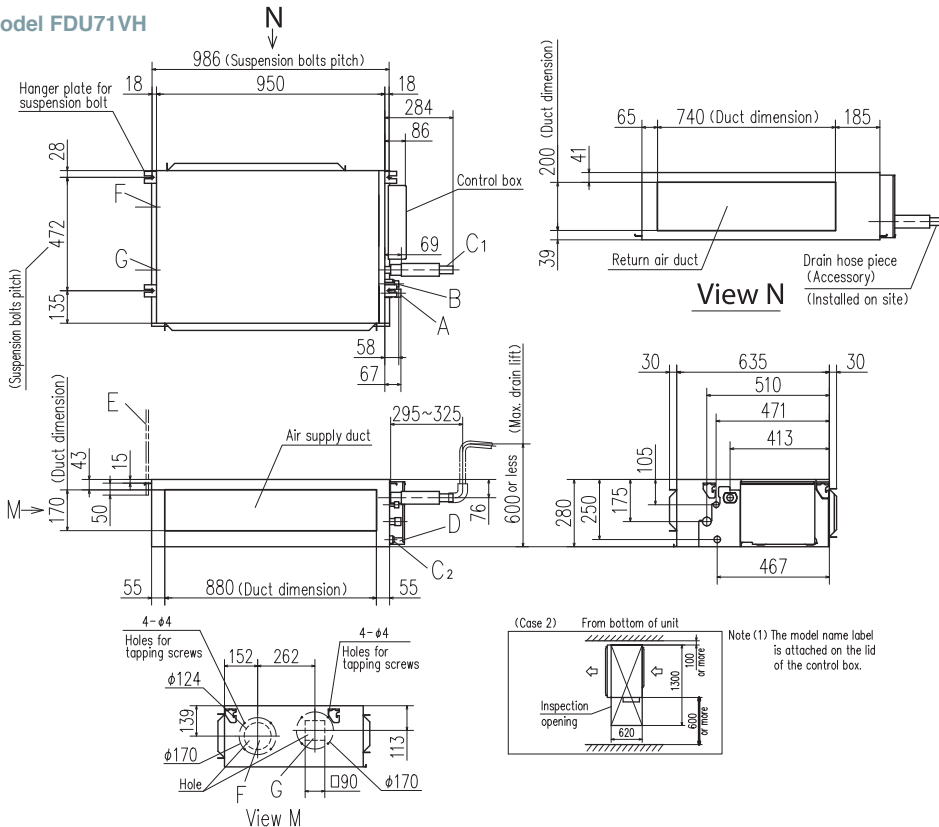
## OUTDOOR UNIT

		Hyper Inverter	
FDC		71VNX-W	100~140VN(S)X-W
		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-W	—	200~250~280VSA-W	71VNP-W	90~100VNP-W	—
		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

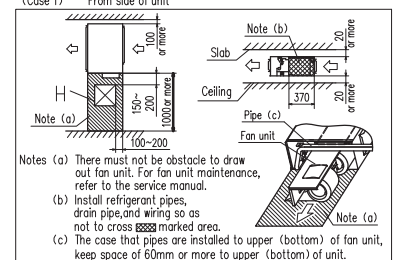
## DIMENSIONS (Unit:mm) - FDU -

### Model FDU71VH



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

Space for installation and service  
Select either of two cases to keep space for installation and services.  
(Case 1) From side of unit



**View M**

1404 (Suspension bolts pitch)  
1368  
18  
284  
86  
Control box  
B  
A  
71  
C<sub>1</sub>  
59  
69  
180  
530 (Suspension bolts pitch)  
28  
Hanger plate for suspension bolt  
G  
295~325 (Max. drain lift)  
600 or less  
280  
250  
184.5  
134.5  
30  
738  
635  
468  
405  
467  
104  
1200 (Duct dimension)  
104  
C<sub>2</sub>  
43  
15  
170 (Duct dimension)  
50  
M  
4-φ4  
Holes for tapping screws  
152  
285  
4-φ4  
Holes for tapping screws  
φ124  
139  
φ170  
Hole  
F  
G  
φ90  
φ170  
113

**View N**

235 (Duct dimension)  
64  
1280 (Duct dimension)  
64  
21.5  
23.5  
Return air duct  
Drain hose piece (Accessory)  
(Installed on site)

Symbol	Content
A	Gas piping φ15.8
B	Liquid piping φ9.5
C <sub>1</sub>	Drain piping
C <sub>2</sub>	Drain piping (Gravity drainage)
D	Hole for wiring
E	Suspension bolts
F	Outside air opening for ducting
G	Air outlet opening for ducting
H	Inspection opening

**Space for installation and service**  
Select either of two cases to keep space (Case 1) From side of unit

**Notes**  
(a) There must not be obstacle out 2 fan units. For fan unit refer to the service manual.  
(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross ~~8888~~ marked area.  
(c) The case that pipes are installed keep space of 60mm or more

**Technical Drawing Details:**

- Top View:** Shows a rectangular unit with a width of 1600mm and a height of 80mm. The distance between suspension bolts is 1634mm. A hanger plate for the suspension bolt is shown on the left. The control box is on the right, with a width of 85mm. The distance from the left edge to the control box is 17mm. The distance from the control box to the right edge is 17mm. The distance from the left edge to the first suspension bolt is 31mm. The distance between suspension bolts is 831mm. The distance from the last suspension bolt to the right edge is 31mm.
- Side View (View N):** Shows the unit from the side with a length of 1450mm (duct dimension). The height is 250mm (duct dimension). The distance from the left edge to the first suspension bolt is 75mm. The distance between suspension bolts is 79mm. The distance from the last suspension bolt to the right edge is 75mm. The return air duct is shown on the right.
- Front View:** Shows the unit from the front with a width of 1450mm (duct dimension). The height is 250mm (duct dimension). The distance from the left edge to the first suspension bolt is 75mm. The distance between suspension bolts is 6mm. The distance from the last suspension bolt to the right edge is 75mm. The air supply duct is shown on the right.
- Bottom View:** Shows the unit from the bottom with a width of 1450mm (duct dimension). The height is 250mm (duct dimension). The distance from the left edge to the first suspension bolt is 75mm. The distance between suspension bolts is 6mm. The distance from the last suspension bolt to the right edge is 75mm. The air supply duct is shown on the right.
- Parts List:**

Symbol	MODEL	200	250, 280
A	Gas piping	φ25.4 (1") (Braze)	
B	Liquid piping	φ9.52 (3/8") (Braze)	φ12.7 (1/2") (Braze)
C	Drain piping (Gravity drainage)	VP25 (O.D.32)	
D	Hole for wiring		
E	Suspension bolts	M10	
F	Inspection hole	(450X450)	
- Space for installation and service:** Select either of two cases to keep space for installation and services.
  - (Case 1) From side of unit: Shows a side view of the unit with dimensions for clearance: 100 or more (top), 150 or more (bottom), 150 or more (left), 150 or more (right), 150 or more (front), 150 or more (back).
  - (Case 2) From bottom of unit: Shows a bottom view of the unit with dimensions for clearance: 100 or more (top), 150 or more (bottom), 150 or more (left), 150 or more (right), 150 or more (front), 150 or more (back).
- Notes:**
  - Note (1) The model name label is attached on the lid of the control box.
  - Note (a) There must not be obstacle to draw out 2 fan units. For fan units maintenance, refer to service manual.
  - Note (b) Install refrigerant pipes, drain pipe and wiring so as not to cross marked area.
  - Note (c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

## SPECIFICATIONS -FDU-

R32			HyperInverter				
Set model name			FDU71VNXWVH	FDU100VNXWVH	FDU125VNXWVH	FDU140VNXWVH	
Indoor unit			FDU71VH	FDU100VH	FDU125VH	FDU140VH	
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )	
Power consumption	Cooling/Heating	kW	1.77 / 1.78	2.59 / 2.63	3.49 / 3.61	4.22 / 4.22	
EER/COP	Cooling/Heating		4.01 / 4.49	3.86 / 4.26	3.58 / 3.88	3.32 / 3.79	
Inrush current		A	5	5	5	5	
Max. current			20	26	28	30	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		66 / 66	67 / 67	68 / 70	69 / 71
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
	Indoor	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 / 51	53 / 51	53 / 54	54 / 54	
	Indoor	Cooling (P-Hi/Hi/Me/Lo)	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			97
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	Max.50 / Max.15		
Outdoor operating temperature range	Cooling		°CDB	-15~50*3			
	Heating		°CWB	-20~20			
Air filter				Procure locally			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-KIT4-E2			

R32				HyperInverter						
Set model name				FDU100VSXWVH		FDU125VSXWVH		FDU140VSXWVH		
Indoor unit				FDU100VH		FDU125VH		FDU140VH		
Outdoor unit				FDC100VSX-W		FDC125VSX-W		FDC140VSX-W		
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz						
Nominal cooling capacity (Min~Max)			kW	10.0 ( 3.5 ~ 11.2 )		12.5 ( 3.5 ~ 14.0 )		14.0 ( 3.5 ~ 16.0 )		
Nominal heating capacity (Min~Max)			kW	11.2 ( 2.7 ~ 16.0 )		14.0 ( 2.7 ~ 18.0 )		16.0 ( 2.7 ~ 20.0 )		
Power consumption		Cooling/Heating	kW	2.59 / 2.63		3.49 / 3.61		4.22 / 4.22		
EER/COP		Cooling/Heating		3.86 / 4.26		3.58 / 3.88		3.32 / 3.79		
Inrush current			A	5		5		5		
Max. current				15		16		17		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65		67 / 67		70 / 70		
	Outdoor	Cooling/Heating		67 / 67		68 / 70		69 / 71		
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		m³/min	44 / 38 / 36 / 30		45 / 40 / 34 / 29		47 / 40 / 35 / 30	
	Indoor	Heating (P-Hi/Hi/Me/Lo)			44 / 38 / 36 / 30		45 / 40 / 34 / 29		47 / 40 / 35 / 30	
Air flow	Outdoor	Cooling/Heating		53 / 51		53 / 54		54 / 54		
	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)		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			99						
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.50 / Max.15						
Outdoor operating temperature range	Cooling	°CDB	-15~50,*3							
	Heating	°CWB	-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(R32:ISO-T1, -H1 / R410A: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			Hyper Inverter				
Set model name			FDU71VNXVH	FDU100VNXVH	FDU125VNXVH	FDU140VNXVH	
Indoor unit			FDU71VH	FDU100VH	FDU125VH	FDU140VH	
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* <sup>1</sup>	Indoor	Cooling/Heating	65 / 65	65 / 65	67 / 67	70 / 70	
	Outdoor		Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level* <sup>1</sup>	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	dB(A)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor			Cooling/Heating	51 / 48	48 / 50	48 / 50
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m <sup>3</sup> /min	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	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* <sup>2</sup>		Pa	Standard:35 Max:200		Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635			
	Outdoor			280 x 1,370 x 740			
Net weight	Indoor		kg	34			
	Outdoor			60			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.50	Max.100			
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~43* <sup>3</sup>				
	Heating	°CWB	-20~20				
Air filter			Procure locally				
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

R410A			Hyper Inverter			
Set model name			FDU100VSXVH	FDU125VSXVH	FDU140VSXVH	
Indoor unit			FDU100VH	FDU125VH	FDU140VH	
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* <sup>1</sup>	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70	
	Outdoor		Cooling/Heating	70 / 70	70 / 70	72 / 72
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	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
	Indoor	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
External static pressure* <sup>2</sup>		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	°CDB	-15~43* <sup>3</sup>			
	Heating	°CWB	-20~20			
Air filter			Procure locally			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			



## SPECIFICATIONS -FDU-

R32			Micro Inverter		
Set model name			FDU100VNAWVH	FDU125VNAWVH	FDU140VNAWVH
Indoor unit			FDU100VH	FDU125VH	FDU140VH
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
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	2.99 / 2.66	4.36 / 3.69	5.13 / 4.21
EER/COP	Cooling/Heating		3.35 / 4.21	2.87 / 3.79	2.65 / 3.68
Inrush current		A	5	5	5
Max. current			26	26	27
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 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 / 55	54 / 56	56 / 58
		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:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		54		
	Outdoor		77		
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	°CDB	-15~50*3		
	Heating	°CWB	-20~20		
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

R32			Micro Inverter		
Set model name			FDU100VSAWVH	FDU125VSAWVH	FDU140VSAWVH
Indoor unit			FDU100VH	FDU125VH	FDU140VH
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
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	2.99 / 2.66	4.36 / 3.69	5.13 / 4.21
EER/COP	Cooling/Heating		3.35 / 4.21	2.87 / 3.79	2.65 / 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	69 / 70	71 / 71	72 / 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 / 55	54 / 56	56 / 58
		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:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		54		
	Outdoor		78		
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	°CDB	-15~50*3		
	Heating	°CWB	-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(R32 : ISO-T1, -H1 / , R410A : 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.

\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

R32			Micro Inverter		
Set model name			FDU200VSAWVH	FDU250VSAWVH	FDU280VSAWVH
Indoor unit			FDU200VH	FDU250VH	FDU280VH
Outdoor unit			FDC200VSA-W	FDC250VSA-W	FDC280VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	20.0 ( 7.2 ~ 22.4 )	25.0 ( 7.2 ~ 28.0 )	27.0 ( 6.9 ~ 31.5 )
Nominal heating capacity (Min~Max)		kW	22.4 (6.5 ~ 25.0 )	28.0 (6.7 ~ 31.5 )	30.0 (6.9 ~ 33.5 )
Power consumption	Cooling/Heating	kW	6.15 / 5.67	8.25 / 7.55	9.15 / 9.12
EER/COP	Cooling/Heating		3.25 / 3.95	3.03 / 3.75	2.95 / 3.29
Inrush current		A	5	5	5
Max. current			23	25	25
Sound power level* <sup>1</sup>	Indoor	Cooling/Heating	78 / 78	78 / 78	78 / 78
	Outdoor	Cooling/Heating	72 / 74	73 / 75	75 / 77
Sound pressure level* <sup>1</sup>	Indoor	Cooling (P-Hi/Hi/Me/Lo)	52 / 50 / 47 / 45	52 / 50 / 47 / 45	52 / 50 / 47 / 45
		Heating (P-Hi/Hi/Me/Lo)	52 / 50 / 47 / 44	52 / 50 / 47 / 44	52 / 50 / 47 / 44
	Outdoor	Cooling/Heating	58 / 59	58 / 62	61 / 63
		Cooling (P-Hi/Hi/Me/Lo)	80 / 72 / 64 / 56	80 / 72 / 64 / 56	80 / 72 / 64 / 56
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	80 / 72 / 64 / 56	80 / 72 / 64 / 56	80 / 72 / 64 / 56
	Outdoor	Cooling/Heating	148 / 134	148 / 153	136 / 140
External static pressure* <sup>2</sup>		Pa	Standard:72 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	379 x 1,600 x 893		
	Outdoor		1,505 x 970 x 370		
Net weight	Indoor		88		
	Outdoor		144	145	155
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")		
Refrigerant line (one way) length		m	Max.70		Max.60
Vertical height differences		Outdoor is higher/lower	Max.50* <sup>4</sup> / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50* <sup>3</sup>		
	Heating	°CWB	-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			FDU100VNAVH	FDU125VNAVH	FDU140VNAVH
Indoor unit			FDU100VH	FDU125VH	FDU140VH
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)	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* <sup>2</sup>		Pa	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		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	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50* <sup>3</sup>		
	Heating	°CWB	-20~20		
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

## SPECIFICATIONS -FDU-

R410A		Micro Inverter		
Set model name		FDU100VSAVH	FDU125VSAVH	FDU140VSAVH
Indoor unit		FDU100VH	FDU125VH	FDU140VH
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)		11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption		2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP		3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current		5	5	5
Max. current		17	17	18
Sound power level*1	Indoor	65 / 65	67 / 67	70 / 70
	Outdoor	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
Air flow	Indoor	54 / 56	55 / 57	57 / 59
	Outdoor	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
External static pressure*2		Standard:60 Max:200		
Exterior dimensions	Indoor	280 x 1,370 x 740		
	Outdoor	845 x 970 x 370		
Net weight	Indoor	54		
	Outdoor	82		
Ref.piping size		9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		Max.50		
Vertical height differences		Max.50 / Max.15		
Outdoor operating temperature range	Cooling	-15~50*3		
	Heating	-20~20		
Air filter		Procure locally		
Remote control (option)		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

R410A		Micro Inverter	
Set model name		FDU200VSAVH	FDU250VSAVH
Indoor unit		FDU200VH	FDU250VH
Outdoor unit		FDC200VSA	FDC250VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)		19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)		22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption		6.15 / 6.03	7.98 / 7.20
EER/COP		3.09 / 3.71	3.01 / 3.75
Inrush current		5	5
Max. current		25	27
Sound power level*1	Indoor	78 / 78	78 / 78
	Outdoor	72 / 74	73 / 75
Sound pressure level*1	Indoor	52 / 50 / 47 / 45	52 / 50 / 47 / 45
	Outdoor	52 / 50 / 47 / 44	52 / 50 / 47 / 44
Air flow	Indoor	58 / 59	59 / 62
	Outdoor	80 / 72 / 64 / 56	80 / 72 / 64 / 56
External static pressure*2		Standard:72 Max:200	
Exterior dimensions	Indoor	379 x 1,600 x 893	
	Outdoor	1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor	88	
	Outdoor	115	143
Ref.piping size		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length		Max.70	
Vertical height differences		Max.30 / Max.15	
Outdoor operating temperature range	Cooling	-15~50*3	
	Heating	-15~20	
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(R32 : ISO-T1, -H1 / , R410A : 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.

R32				Standard Inverter		
Set model name				FDU71VNPWVH	FDU90VNPWVH	FDU100VNPWVH
Indoor unit				FDU71VH	FDU100VH	FDU100VH
Outdoor unit				FDC71VNP-W	FDC90VNP-W	FDC100VNP-W
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW		7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )
Nominal heating capacity (Min~Max)		kW		7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )
Power consumption		Cooling/Heating	kW	2.60 / 1.89	2.62 / 1.98	3.08 / 2.45
EER/COP		Cooling/Heating		2.73. / 3.76	3.44 / 4.55	3.25 / 4.08
Inrush current		A		5	5	5
Max. current				15.8	19	19
Sound power level*1	Indoor	Cooling/Heating		65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating		67 / 67	67 / 66	68 / 67
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating		54 / 54	55 / 53	56 / 54
		Cooling (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	m³/min	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
		Outdoor		Cooling/Heating	42 / 42	59 / 55
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	
Net weight	Indoor		kg	34	54	
	Outdoor			45	57	
Ref.piping size	Liquid/Gas	ømm		6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length		m		Max.30	Max.30	
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB		-15~46*3		
	Heating	°CWB		-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			FDU71VNPVH	FDU90VNP1VH	FDU100VNP1VH
Indoor unit			FDU71VH	FDU100VH	FDU100VH
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	22
Sound power level*1	Indoor	Cooling/Heating	65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
Air flow	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
		Cooling (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
	Indoor	Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
		Cooling/Heating	36 / 36	63 / 49.5	75 / 79
External static pressure*2		Pa	Standard:35 Max:200	Standard:60 Max:200	
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 950 x 635	280 x 1,370 x 740	
	Outdoor		640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		34	54	
	Outdoor		45	70	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30		
Vertical height differences		Outdoor is higher/lower	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*3		
	Heating	°CWB	-15~20		
Air filter			Procure locally		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		



# FDUM

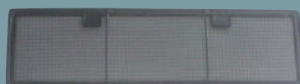
Indoor Unit

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



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



Remote control (option)

Wired

Wireless



RC-EX3A  
RC-EXZ3A



RC-E5



RCH-E3



RCN-KIT4-E2

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

## Thin Design

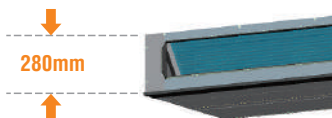
The height of all FDUM models is only 280mm.

FDUM100/125/140

FDUM40/50/60/71

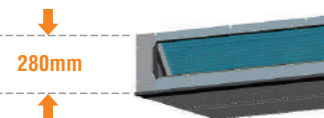
70mm less

19mm less



H 350mm

H 280mm



H 299mm

H 280mm

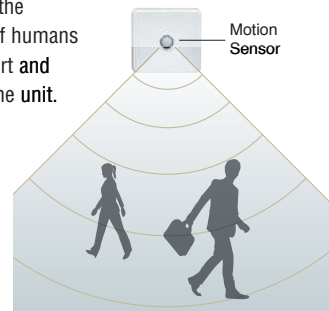
## Motion Sensor (Option)

New

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-KIT2



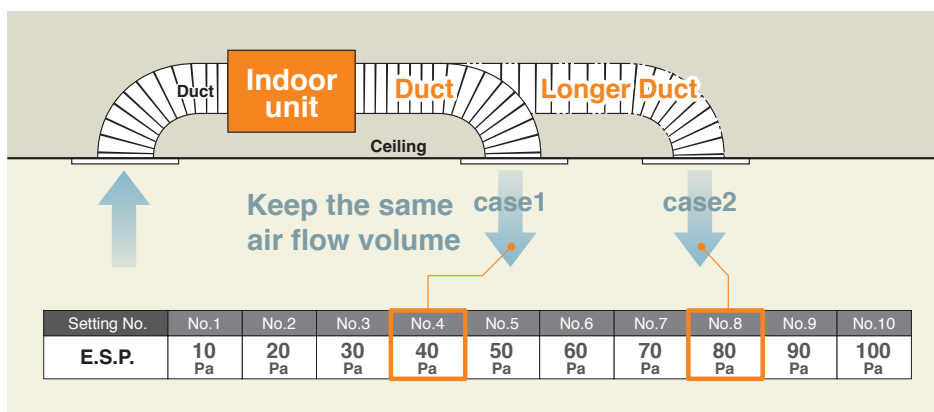
## Automatic External Static Pressure (E.S.P.) Control

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.



## Zoning system

Effectively control temperatures of multiple rooms with one indoor duct unit. (Please refer to P51)

## Improvement of the Serviceability

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

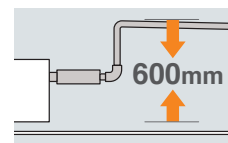
## Transparent Inspection Window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan. (Please refer to P52)

## 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.



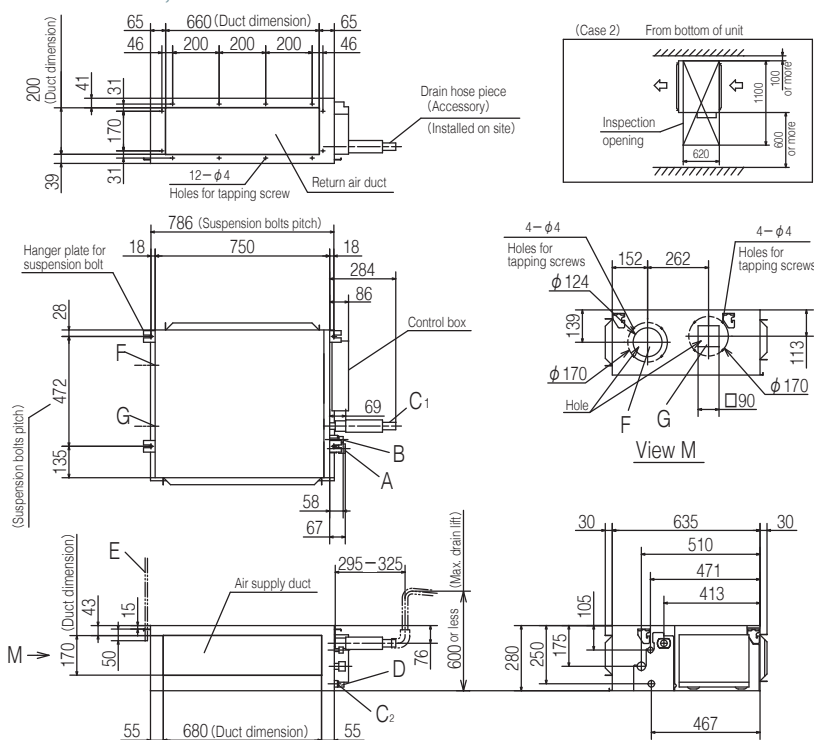
## OUTDOOR UNIT

Hyper Inverter			
SRC • FDC	40~60ZSX-W1,-W2 40~60ZSX-S	71VNX-W 71VNX	100~140VN(S)X-W 100~140VN(S)X
model			
Chargeless	15m	30m	
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

Micro Inverter				Standard Inverter		
FDC	100~140VN(S)A-W 100~140VN(S)A	— 200VSA	200~250~280VSA-W 250VSA	71VNP-W 71VNP	90~100VNP-W 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, 50VH



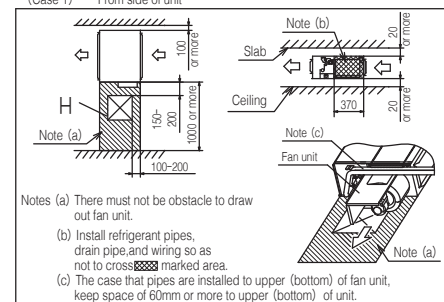
Symbol	Content
A	Gas piping $\phi 12.7 (1/2")$ (Flare)
B	Liquid piping $\phi 6.35 (1/4")$ (Flare)
C1	Drain piping VP25 (O.D.32)
C2	Drain piping (Gravity drainage) VP20
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting ( $\phi 150$ ) (Knock out)
G	Air outlet opening for ducting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

Note(1) The model name label is attached on the lid of the control box.

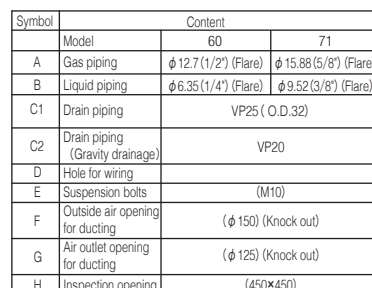
#### Space for installation and service

Select either of two cases to keep space for installation and services.

(Case 1) From side of unit



## Models FDUM60VH,71VH

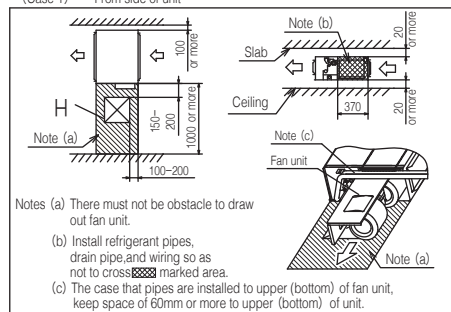


Note (1) The model name label is attached on the lid of the control box.


Space for installation and service

Select either of two cases to keep space for installation and services

(Case 1) From side of unit



Notes (a) There must not be obstacle to draw out fan unit.

(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross  marked area.

(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

[illegible]

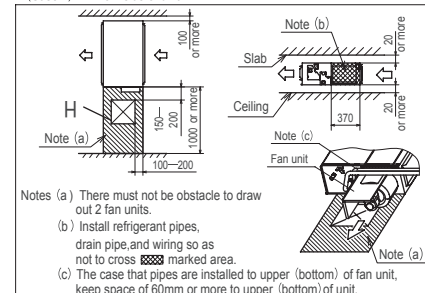
Note (1) The model name label is attached on the lid of the control box.

Symbol	Content
A	Gas piping $\phi 15.88 (5/8")$ (Flare)
B	Liquid piping $\phi 9.52 (3/8")$ (Flare)
C <sub>1</sub>	Drain piping VP25 (O.D. 32)
C <sub>2</sub>	Drain piping (Gravity drainage) VP20
D	Hole for wiring
E	Suspension bolts (M10)
F	Outside air opening for ducting ( $\phi 150$ ) (Knock out)
G	Air outlet opening for ducting ( $\phi 125$ ) (Knock out)
H	Inspection opening (450×450)


Space for installation and service

Select either of two cases to keep space for installation and services.


(Case 1) From side of unit



Notes (a) There must not be obstacle to draw out 2 fan units.

(b) Install refrigerant pipes, drain pipe, and wiring so as not to cross  marked area.

(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.



Note

R32			Hyper Inverter		
Set model name			FDUM40ZSXW1VH	FDUM50ZSXW2VH	FDUM60ZSXW1VH
Indoor unit			FDUM40VH	FDUM50VH	FDUM60VH
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W2	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*1	Indoor	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	63 / 62	63 / 62	65 / 65
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25
	Indoor	Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25
	Outdoor	Cooling/Heating	52 / 50	52 / 50	53 / 54
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10
	Outdoor	Cooling/Heating	33 / 33	39 / 33	41.5 / 39
External static pressure*2		Pa	Standard:35 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 750 x 635		
	Outdoor		640 x 800(+71) x 290		
Net weight	Indoor		29		
	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	°CDB	-15~46*3		
	Heating	°CWB	-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		

R32			HyperInverter				
Set model name			FDUM71VNXWVH	FDUM100VNXWVH	FDUM125VNXWVH	FDUM140VNXWVH	
Indoor unit			FDUM71VH	FDUM100VH	FDUM125VH	FDUM140VH	
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )	
Power consumption	Cooling/Heating	kW	1.77 / 1.78	2.59 / 2.63	3.49 / 3.61	4.22 / 4.22	
EER/COP	Cooling/Heating		4.01 / 4.49	3.86 / 4.26	3.58 / 3.88	3.32 / 3.79	
Inrush current		A	5	5	5	5	
Max. current			20	26	28	30	
Sound power level*1	Indoor	Cooling/Heating	65 / 65	65 / 65	67 / 67	70 / 70	
	Outdoor		Cooling/Heating	66 / 66	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	dB(A)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor			Cooling/Heating	51 / 51	53 / 51	53 / 54
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	m³/min	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor			Cooling/Heating	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20
				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	mm	280 x 950 x 635			
	Outdoor			280 x 1,370 x 740			
Net weight	Indoor		kg	750 x 880(+88) x 340			
	Outdoor			1,300 x 970 x 370			
	Indoor			34			
	Outdoor			60			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.50	Max.100			
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3				
	Heating	°CWB	-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				

## 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.



## SPECIFICATIONS - FDUM -

R32			HyperInverter		
Set model name			FDUM100VSXWVH	FDUM125VSXWVH	FDUM140VSXWVH
Indoor unit			FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)			11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption			Cooling/Heating kW	2.59 / 2.63	3.49 / 3.61
EER/COP			Cooling/Heating	3.86 / 4.26	3.58 / 3.88
Inrush current			A	5	5
Max. current			A	15	16
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67
	Outdoor	Cooling/Heating	dB(A)	67 / 67	68 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
	Indoor	Heating (P-Hi/Hi/Me/Lo)	dB(A)	44 / 38 / 36 / 30	45 / 40 / 34 / 29
Air flow	Outdoor	Cooling/Heating	m³/min	53 / 51	53 / 54
	Outdoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	Indoor	Heating (P-Hi/Hi/Me/Lo)	m³/min	36 / 28 / 25 / 19	39 / 32 / 26 / 20
	Outdoor	Cooling/Heating	m³/min	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	HeightxWidthxDepth	mm	1,300 x 970 x 370	
Net weight	Indoor		kg	54	
	Outdoor		kg	99	
Ref.piping size			Liquid/Gas	ømm	
Refrigerant line (one way) length			m	Max.100	
Vertical height differences			Outdoor is higher/lower	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB		-15~50*3	
	Heating	°CWB		-20~20	
Air filter (option)				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.

R32			HyperInverter				
Set model name			FDUM71VNXWPVH	FDUM100VNXWPVH	FDUM125VNXWPVH	FDUM140VNXWPVH	FDUM140VNXWTVH
			Twin				Triple
Indoor unit			FDUM40VH x 2	FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	FDC140VNX-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW 7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)			kW 8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption			Cooling/Heating kW 1.76 / 1.80	2.66 / 2.96	3.26 / 3.26	3.97 / 3.91	4.03 / 4.04
EER/COP			Cooling/Heating 4.03 / 4.44	3.76 / 3.79	3.83 / 4.30	3.53 / 4.10	3.48 / 3.96
Inrush current			A	5	5	5	5
Max. current				20	26	28	30
Sound power level*1	Indoor*4	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	65 / 65
	Outdoor	Cooling/Heating		66 / 66	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25
		Heating (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25
Air flow	Outdoor	Cooling/Heating		51 / 51	53 / 51	53 / 54	54 / 54
	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	
External static pressure*2			Pa	Standard:35 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635	
	Outdoor			750 x 880(+88) x 340		1,300 x 970 x 370	
Net weight	Indoor		kg	29		34	
	Outdoor			60		97	
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		Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*3				
	Heating	°CWB	-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				
			Filter kit : UM-FL1EF				

### NOTES:

- The data are measured under the following conditions(ISO-T1, -H1 / R410A : 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.

FDUM

Indoor Unit

R32			HyperInverter				
Set model name			FDUM100VSXWPH	FDUM125VSXWPH	FDUM140VSXWPH	FDUM140VSXWTVH	
			Twin			Triple	
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3	
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W	FDC140VSX-W	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )	16.0 ( 2.7 ~ 20.0 )	
Power consumption	Cooling/Heating	kW	2.66 / 2.96	3.26 / 3.26	3.97 / 3.91	4.03 / 4.04	
EER/COP	Cooling/Heating		3.76 / 3.79	3.83 / 4.30	3.53 / 4.10	3.48 / 3.96	
Inrush current		A	5	5	5	5	
Max. current			15	16	17	17	
Sound power level*1	Indoor*4	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60	
	Outdoor		Cooling/Heating	67 / 67	68 / 70	69 / 71	69 / 71
Sound pressure level*1	Indoor*4		Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
			Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor		Cooling/Heating	53 / 51	53 / 54	54 / 54	54 / 54
Air flow	Indoor*4		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	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			99			
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.50 / Max.15			
Outdoor operating temperature range	Cooling		°CDB	-15~50*3			
	Heating		°CWB	-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			

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	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)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25
		Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25
Air flow	Outdoor	Cooling/Heating	50 / 49	50 / 49	52 / 52
		Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10
	Indoor	Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10
		Outdoor	Cooling/Heating	36 / 33	40 / 33
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		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	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*3		
	Heating	°CWB	-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		

## SPECIFICATIONS - FDUM -

R410A			HyperInverter					
Set model name			FDUM71VNXVH	FDUM100VNXVH	FDUM125VNXVH	FDUM140VNXVH		
Indoor unit			FDUM71VH	FDUM100VH	FDUM125VH	FDUM140VH		
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	Cooling/Heating	dB(A)	65 / 65	65 / 65	67 / 67	70 / 70	
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25 38 / 33 / 29 / 25	44 / 38 / 36 / 30 44 / 38 / 36 / 30	45 / 40 / 34 / 29 45 / 40 / 34 / 29	47 / 40 / 35 / 30 47 / 40 / 35 / 30	
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)		m³/min	24 / 19 / 15 / 10 24 / 19 / 15 / 10	36 / 28 / 25 / 19 36 / 28 / 25 / 19	39 / 32 / 26 / 20 39 / 32 / 26 / 20	48 / 35 / 28 / 22 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		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	°CDB	-15~43*3					
	Heating	°CWB	-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				FDUM100VSXVH	FDUM125VSXVH	FDUM140VSXVH
Indoor unit				FDUM100VH	FDUM125VH	FDUM140VH
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		65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	
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
Air flow	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52
		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	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		°CDB	-15~43*3		
	Heating		°CWB	-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.

FDUM

Indoor Unit

R410A			Hyper Inverter				
Set model name			FDUM71VNXPVH	FDUM100VNXPVH	FDUM125VNXPVH	FDUM140VNXPVH	FDUM140VNXTVH
			Twin				Triple
Indoor unit			FDUM40VH x 2	FDUM50VH x 2	FDUM60VH x 2	FDUM71VH 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	60 / 60	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor						
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor						
Air flow	Indoor*4	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
	Indoor*4	Cooling (P-Hi/Hi/Me/Lo) 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	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
External static pressure*2		Pa	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxD	Standard:35 Max:100				
	Outdoor	HeightxWidthxD	280 x 750 x 635				280 x 750 x 635
Net weight	Indoor		750 x 880(+88) x 340				
	Outdoor		1,300 x 970 x 370				
Ref.piping size	Liquid/Gas	ømm	29				29
Refrigerant line (one way) length		m	60				105
Vertical height differences	Outdoor is higher/lower	m	9.52(3/8") / 15.88(5/8")				
Outdoor operating temperature range	Cooling	°CDB	Max.50				
	Heating	°CWB	Max.100				
Air filter (option)			Max.30 / Max.15				
Remote control (option)			-15~43*3				
			-20~20				
			Filter kit : UM-FL1EF				Filter kit : UM-FL1EF
			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

The values are for simultaneous Multi operation.

R410A			Hyper Inverter			
Set model name			FDUM100VSXPVH	FDUM125VSXPVH	FDUM140VSXPVH	FDUM140VSXTVH
			Twin			Triple
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VH 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	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor					
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo) Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor					
Air flow	Indoor*4	Cooling/Heating	48 / 50	48 / 50	49 / 52	49 / 52
	Indoor*4	Cooling (P-Hi/Hi/Me/Lo) 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	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
External static pressure*2		Pa	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxD	Standard:35 Max:100			
	Outdoor	HeightxWidthxD	280 x 750 x 635			280 x 750 x 635
Net weight	Indoor		280 x 950 x 635			
	Outdoor		1,300 x 970 x 370			
Ref.piping size	Liquid/Gas	ømm	29			29
Refrigerant line (one way) length		m	34			105
Vertical height differences	Outdoor is higher/lower	m	9.52(3/8") / 15.88(5/8")			
Outdoor operating temperature range	Cooling	°CDB	Max.100			
	Heating	°CWB	Max.30 / Max.15			
Air filter (option)			-15~43*3			
Remote control (option)			-20~20			
			Filter kit : UM-FL1EF			Filter kit : UM-FL1EF
			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			



## SPECIFICATIONS - FDUM -

R32			Micro Inverter		
Set model name			FDUM100VNAWVH	FDUM125VNAWVH	FDUM140VNAWVH
Indoor unit			FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.99 / 2.66	4.36 / 3.69	5.13 / 4.21
EER/COP			3.35 / 4.21	2.87 / 3.79	2.65 / 3.68
Inrush current			5	5	5
Max. current			26	26	27
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Indoor	Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58
	Outdoor	Cooling/Heating	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			Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor	HeightxWidthxDepth	845 x 970 x 370		
Net weight	Indoor		54		
	Outdoor		77		
Ref.piping size			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.50		
Vertical height differences			Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3		
	Heating	°CWB	-20~20		
Air filter (option)			Filter kit : UM-FL3EF		
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

R32			Micro Inverter		
Set model name			FDUM100VSAWVH	FDUM125VSAWVH	FDUM140VSAWVH
Indoor unit			FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.99 / 2.66	4.36 / 3.69	5.13 / 4.21
EER/COP			3.35 / 4.21	2.87 / 3.79	2.65 / 3.68
Inrush current			5	5	5
Max. current			17	17	18
Sound power level*1	Indoor	Cooling/Heating	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Indoor	Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating	54 / 55	54 / 56	56 / 58
	Outdoor	Cooling/Heating	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			Standard:60 Max:100		
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		
	Outdoor	HeightxWidthxDepth	845 x 970 x 370		
Net weight	Indoor		54		
	Outdoor		78		
Ref.piping size			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.50		
Vertical height differences			Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3		
	Heating	°CWB	-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, -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.

\*4 : The values are for one indoor unit operation. (Multi system only)

The values are for simultaneous Multi operation.

FDUM

Indoor Unit

R32			Micro Inverter				
Set model name			FDUM100VNAWPVH	FDUM125VNAWPVH	FDUM140VNAWPVH	FDUM140VNAWTVH	
			Twin		Triple		
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3	
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W	FDC140VNA-W	
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 3.25 / 3.04	4.53 / 3.52	5.02 / 4.20	5.02 / 4.20	
EER/COP		Cooling/Heating	3.08 / 3.68	2.76 / 3.98	2.71 / 3.69	2.71 / 3.69	
Inrush current		A	5	5	5	5	
Max. current			26	26	27	27	
Sound power level*1	Indoor*4	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating		69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating		54 / 55	54 / 56	56 / 58	56 / 58
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	75 / 73	75 / 73	75 / 73	75 / 73	
External static pressure*2		Pa	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			
Net weight	Indoor		kg	29		34	
	Outdoor			77			
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	°CDB	-15~50*3				
	Heating	°CWB	-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.

R32			Micro Inverter				
Set model name			FDUM100VSAWPVH	FDUM125VSAWPVH	FDUM140VSAWPVH	FDUM140VSAWTVH	
			Twin			Triple	
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3	
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC140VSA-W	
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 )	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	3.25 / 3.04	4.53 / 3.52	5.02 / 4.20	5.02 / 4.20	
EER/COP	Cooling/Heating		3.08 / 3.68	2.76 / 3.98	2.71 / 3.69	2.71 / 3.69	
Inrush current		A	5	5	5	5	
Max. current			17	17	18	18	
Sound power level*1	Indoor*4	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60	
	Outdoor		Cooling/Heating	69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level*1	Indoor*4		Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
			Heating (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
Air flow	Outdoor		Cooling/Heating	54 / 55	54 / 56	56 / 58	56 / 58
	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	75 / 73	75 / 73	75 / 73	75 / 73	
External static pressure*2		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		29		29		
	Outdoor		78				
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	°CDB	-15~50*3				
	Heating	°CWB	-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 -

The values are for simultaneous Multi operation.

R32			Micro Inverter			
Set model name			FDUM200VSAWPVH	FDUM250VSAWPVH	FDUM280VSAWPVH	FDUM200VSAWTVH
			Twin		Triple	
Indoor unit			FDUM100VH x 2	FDUM125VH x 2	FDUM140VH x 2	FDUM71VH x 3
Outdoor unit			FDC200VSA-W	FDC250VSA-W	FDC280VSA-W	FDC200VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW 20.0 ( 6.8 ~ 22.4 )	25.0 ( 6.8 ~ 28.0 )	27.0 ( 7.8 ~ 31.5 )	20.0 ( 6.8 ~ 22.4 )
Nominal heating capacity (Min~Max)			kW 22.4 ( 6.7 ~ 25.0 )	28.0 ( 5.2 ~ 31.5 )	30.0 ( 6.3 ~ 33.5 )	22.4 ( 6.7 ~ 25.0 )
Power consumption			Cooling/Heating kW 6.58 / 5.59	8.74 / 7.90	10.05 / 8.47	6.58 / 5.59
EER/COP			Cooling/Heating 3.04 / 4.01	2.86 / 3.54	2.69 / 3.54	3.04 / 4.01
Inrush current			A 5	5	5	5
Max. current			19	25	22	19
Sound power level*1	Indoor*4	Cooling/Heating	65 / 65	67 / 67	70 / 70	65 / 65
	Outdoor	Cooling/Heating	72 / 74	73 / 75	75 / 77	72 / 74
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	38 / 33 / 29 / 25
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	38 / 33 / 29 / 25
	Outdoor	Cooling/Heating	58 / 59	58 / 62	61 / 63	58 / 59
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	24 / 19 / 15 / 10
		Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	24 / 19 / 15 / 10
	Outdoor	Cooling/Heating	148 / 134	148 / 153	136 / 140	148 / 134
External static pressure*2			Pa Standard:60 Max:100			Standard:35 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 280 x 1,370 x 740			280 x 950 x 635
	Outdoor		1,505 x 970 x 370			
Net weight	Indoor		kg 54			34
	Outdoor		144	145	155	144
Ref.piping size Liquid/Gas			ømm 9.52(3/8") / 22.22(7/8")			9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length			m Max.70			Max.70
Vertical height differences Outdoor is higher/lower			m Max.50*5 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~50*3			
	Heating	°CWB	-20~20			
Air filter (option)			Filter kit : UM-FL3EF			Filter kit : UM-FL2EF
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

R410A			Micro Inverter		
Set model name			FDUM100VNAVH	FDUM125VNAVH	FDUM140VNAVH
Indoor unit			FDUM100VH	FDUM125VH	FDUM140VH
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*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
Air flow	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)	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	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	°CDB	-15~50*3		
	Heating	°CWB	-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(R32 : ISO-T1, -H1 / R410A : 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)  
\*5 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

R410A			Micro Inverter		
Set model name			FDUM100VSAVH	FDUM125VSAVH	FDUM140VSAVH
Indoor unit			FDUM100VH	FDUM125VH	FDUM140VH
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )
Power consumption			2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP			3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current			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			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			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.50		
Vertical height differences			Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*3		
	Heating	°CWB	-20~20		
Air filter (option)			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			FDUM100VNAPVH	FDUM125VNAPVH	FDUM140VNAPVH	FDUM140VNATVH
			Twin		Triple	
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH 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	3.25 / 3.21	4.53 / 3.75	5.02 / 4.20	5.02 / 4.20
EER/COP	Cooling/Heating		3.08 / 3.49	2.76 / 3.73	2.71 / 3.69	2.71 / 3.69
Inrush current		A	5	5	5	5
Max. current			26	26	27	27
Sound power level*1	Indoor*4	Cooling/Heating	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor					
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)				
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	57 / 59
		Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10
Air flow	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	75 / 73	75 / 73	75 / 73	75 / 73
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			845 x 970 x 370		
Net weight	Indoor		kg	29	34	29
	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	°CDB	-15~50*3			
	Heating	°CWB	-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 -

The values are for simultaneous Multi operation.

R410A			Micro Inverter				
Set model name			FDUM100VSAPVH	FDUM125VSAPVH	FDUM140VSAPVH	FDUM140VSATVH	
			Twin		Triple		
Indoor unit			FDUM50VH x 2	FDUM60VH x 2	FDUM71VH x 2	FDUM50VH x 3	
Outdoor unit			FDC100VSA	FDC125VSA	FDC140VSA	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 )	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	3.25 / 3.21	4.53 / 3.75	5.02 / 4.20	5.02 / 4.20	
EER/COP	Cooling/Heating		3.08 / 3.49	2.76 / 3.73	2.71 / 3.69	2.71 / 3.69	
Inrush current		A	5	5	5	5	
Max. current			17	17	18	18	
Sound power level*1	Indoor*4	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor			Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26	
		Heating (P-Hi/Hi/Me/Lo)					37 / 32 / 29 / 26
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59	57 / 59	
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
		Heating (P-Hi/Hi/Me/Lo)					
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	
External static pressure*2		Pa	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			
Net weight	Indoor		kg	29		34	
	Outdoor			82		29	
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	°CDB	-15~50*3			
		Heating	°CWB	-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			Micro Inverter		
Set model name			FDUM200VSAPVH	FDUM250VSAPVH	FDUM200VSATVH
			Twin		Triple
Indoor unit			FDUM100VH x 2	FDUM125VH x 2	FDUM71VH x 3
Outdoor unit			FDC200VSA	FDC250VSA	FDC200VSA
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 )	19.0 ( 5.2 ~ 22.4 )
Nominal heating capacity (Min~Max)	kW		22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	22.4 ( 3.3 ~ 25.0 )
Power consumption	Cooling/Heating	kW	6.51 / 6.04	8.33 / 7.52	6.46 / 6.15
EER/COP	Cooling/Heating		2.92 / 3.71	2.88 / 3.59	2.94 / 3.64
Inrush current		A	5	5	5
Max. current			22	24	22
Sound power level*1	Indoor*4	Cooling/Heating	65 / 65	67 / 67	65 / 65
	Outdoor	Cooling/Heating	72 / 74	73 / 75	72 / 74
Sound pressure level*1	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	38 / 33 / 29 / 25
		Heating (P-Hi/Hi/Me/Lo)	44 / 38 / 36 / 30	45 / 40 / 34 / 29	38 / 33 / 29 / 25
	Outdoor	Cooling/Heating	58 / 59	59 / 62	58 / 59
Air flow	Indoor*4	Cooling (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	24 / 19 / 15 / 10
		Heating (P-Hi/Hi/Me/Lo)	36 / 28 / 25 / 19	39 / 32 / 26 / 20	24 / 19 / 15 / 10
	Outdoor	Cooling/Heating	135 / 135	143 / 151	135 / 135
External static pressure*2		Pa	Standard:60 Max:100		Standard:35 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	280 x 1,370 x 740		280 x 950 x 635
	Outdoor		1,300 x 970 x 370	1,505 x 970 x 370	
Net weight	Indoor	kg	54		34
	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")	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	°CDB	-15~50*3		
	Heating	°CWB	-15~20		
Air filter (option)			Filter kit : UM-FL3EF		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(R32 : ISO-T1, -H1 / R410A : 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)

R32			Standard Inverter		
Set model name			FDUM71VNPVH	FDUM90VNPVH	FDUM100VNPVH
Indoor unit			FDUM71VH	FDUM100VH	FDUM100VH
Outdoor unit			FDC71VNP-W	FDC90VNP-W	FDC100VNP-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )
Power consumption	Cooling/Heating	kW	2.60 / 1.89	2.62 / 1.98	3.08 / 2.45
EER/COP	Cooling/Heating		2.73 / 3.76	3.44 / 4.55	3.25 / 4.08
Inrush current		A	5	5	5
Max. current			15.8	19	19
Sound power level* <sup>1</sup>	Indoor	Cooling/Heating	65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating	67 / 67	67 / 66	68 / 67
Sound pressure level* <sup>1</sup>	Indoor	Cooling (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating	54 / 54	55 / 53	56 / 54
		Cooling (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
		Cooling/Heating	42 / 42	59 / 55	63 / 55
	Outdoor	Cooling/Heating			
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	
Net weight	Indoor		34	54	
	Outdoor		45	57	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length		m		Max.30	
Vertical height differences		Outdoor is higher/lower		Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB		-15~46* <sup>3</sup>	
	Heating	°CWB		-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		

R410A			Standard Inverter		
Set model name			FDUM71VNPVH	FDUM90VNPVH	FDUM100VNPVH
Indoor unit			FDUM71VH	FDUM100VH	FDUM100VH
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	22
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)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating	54 / 54	57 / 55	57 / 61
		Cooling (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
		Cooling/Heating	36 / 36	63 / 49.5	75 / 79
	Outdoor	Cooling/Heating			
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		Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB		-15~46* <sup>3</sup>	
	Heating	°CWB		-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 71-100**  
Common to the  
both case of  
Single and Multi



## Remote control (option)

### Wired



RC-EX3A



RC-E5



RCH-E3

### Wireless



Wireless  
remote control

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

## Elegant Timeless Design

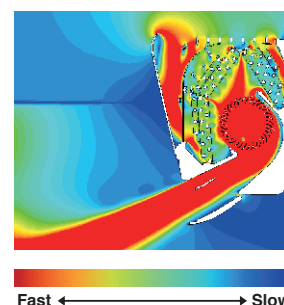
The SRK series air-conditioners have been stylishly designed with rounded contours that fit beautifully into any of Europe's diverse interior settings. The design was created by the Italian industrial design studio Tensa srl, based in Milan, to respond to a broad spectrum of local user needs. (SRK50•60)

## Jet Air Technology

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



The jet air stream generated by this air channel system can bring large volume air without consuming much power. While at the same time, it delivers a uniform gentle breeze to every corner of the room.



Colours in the figure show the air speed.

## Long Reach Air Flow

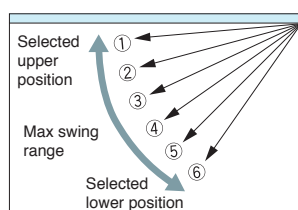
Long reach airflow is achieved by Jet technology. Good for large living rooms and shops, which increases comfort.



## Flap Control System

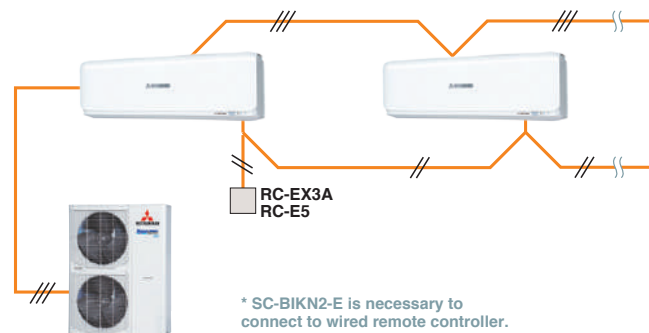
The flap can swing within the range of upper and lower flap position selected.

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



## Indoor Unit Connection

Up to three indoor units are connectable to one outdoor unit.















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

## SC-BIKN2-E connection (Option)

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

## ■ OUTDOOR UNIT

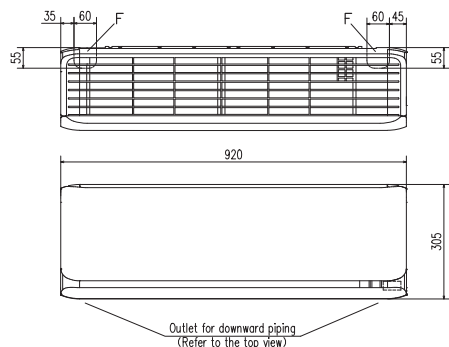
		Hyper Inverter		Micro Inverter		
FDC		71VN(X)-W	100~140VN(S)X-W	100~140VN(S)A-W	—	200VSA-W*
		—	100~140VN(S)X	100VN(S)A	200VSA	—
model						
Chargeless		30m		30m		
Height x Width x Depth (mm)		750 x 880(+88) x 340	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370

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

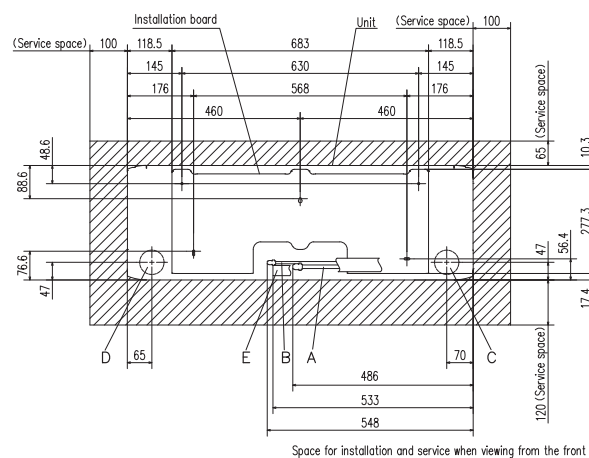
\* SRK100ZR-W is not yet compatible with FDC200VSA-W. The compatible version is in plan to be developed.

■ **DIMENSIONS (Unit:mm) - SRK -**

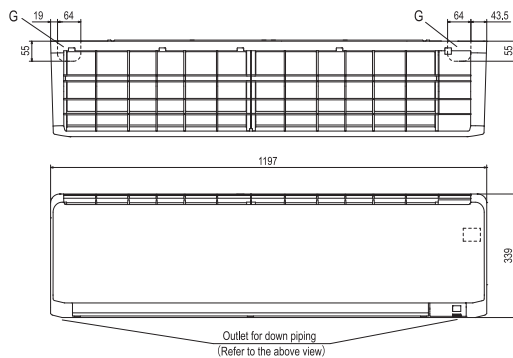
### Models SRK50ZSX-W, 60ZSX-W



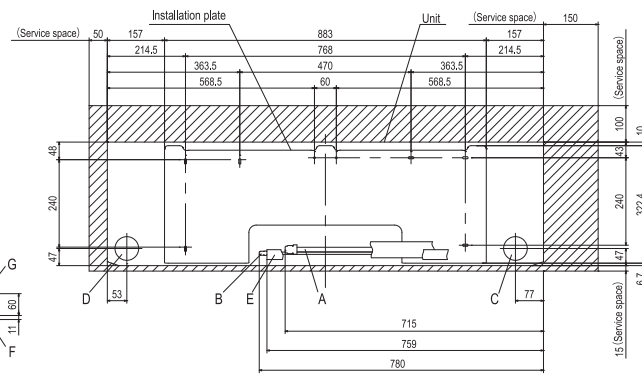
Symbol	Content
A	Gas piping ø12.7 (1/2") (Flare)
B	Liquid piping ø6.35 (1/4") (Flare)
C	Hole on wall for right rear piping (ø65)
D	Hole on wall for left rear piping (ø65)
E	Drain hose VP16
F	Outlet for piping



### Models SRK71ZR-W, 100ZR-W



Symbol	Content
A	Gas piping $\phi 15.88(5/8")$ (Flare)
B	Liquid piping 71: $\phi 6.35(1/4")$ (Flare) 100: $\phi 9.52(3/8")$ (Flare)
C	Hole on wall for right rear piping ( $\phi 65$ )
D	Hole on wall for left rear piping ( $\phi 65$ )
E	Drain hose VP16
F	Outlet for wiring (on both side)
G	Outlet for piping (on both side)





## SPECIFICATIONS - SRK -

R32			HyperInverter		
Set model name			SRK71VNXWZR	SRK100VNXWZR	SRK100VSXWZR
Indoor unit			SRK71ZR-W	SRK100ZR-W	SRK100ZR-W
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC100VSX-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)		kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	10.0 ( 3.5 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	11.2 ( 2.7 ~ 16.0 )
Power consumption		Cooling/Heating kW	1.93 / 1.78	2.74 / 3.04	2.74 / 3.04
EER/COP		Cooling/Heating	3.68 / 4.49	3.65 / 3.69	3.65 / 3.69
Inrush current		A	5	5	5
Max. current			19.1	25	14
Sound power level*1	Indoor	Cooling/Heating	57 / 60	63 / 63	63 / 63
	Outdoor	Cooling/Heating	66 / 66	67 / 67	67 / 67
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)	44 / 41 / 37 / 25	48 / 45 / 40 / 27	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)	46 / 39 / 35 / 28	48 / 43 / 38 / 30	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating	51 / 51	53 / 51	53 / 51
		Cooling (Hi/Me/Lo/Ulo)	20.5 / 18.6 / 16.2 / 10.4	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6 / 10.4
Air flow	Indoor	Heating (Hi/Me/Lo/Ulo)	25.0 / 19.8 / 17.3/ 13.3	27.5 / 23.2 / 19.1/ 13.6	27.5 / 23.2 / 19.1/ 13.6
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	339 x 1,197 x 262	
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370
Net weight	Indoor		kg	15.5	16.5
	Outdoor			60	97
Ref.piping size		Liquid/Gas	ømm	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.50	
Vertical height differences		Outdoor is higher/lower	m	Max.100	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-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.

R32			HyperInverter		
Set model name			SRK100VNXWPZSX	SRK125VNXWPZSX	SRK140VNXWTZSX
			Twin		Triple
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
Outdoor unit			FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption	Cooling/Heating	kW	2.47 / 2.60	3.43 / 3.42	4.03 / 4.04
EER/COP	Cooling/Heating		4.05 / 4.31	3.64 / 4.09	3.48 / 3.96
Inrush current		A	5	5	5
Max. current			25	27	27
Sound power level*1	Indoor*3	Cooling/Heating	59 / 62	62 / 63	59 / 62
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22
		Heating (Hi/Me/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	Cooling/Heating	53 / 51	53 / 54	54 / 54
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	mm	305 x 920 x 220	
	Outdoor			1,300 x 970 x 370	
Net weight	Indoor		kg	13	
	Outdoor			97	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		Max.65
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-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 (R32 : ISO-T1, -H1 / R410A : 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.

SRK

Indoor Unit

R32			HyperInverter		
Set model name			SRK100VSXWPZSX	SRK125VSXWPZSX	SRK140VSXWTZSX
			Twin		Triple
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption	Cooling/Heating	kW	2.47 / 2.60	3.43 / 3.42	4.03 / 4.04
EER/COP	Cooling/Heating		4.05 / 4.31	3.64 / 4.09	3.48 / 3.96
Inrush current	A		5	5	5
Max. current			14	14	14
Sound power level*1	Indoor*3	Cooling/Heating	59 / 62	62 / 63	59 / 62
	Outdoor	Cooling/Heating	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor*3	Cooling (Hi/Me/Lo/Ulo)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22
		Heating (Hi/Me/Lo/Ulo)	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	Cooling/Heating	53 / 51	53 / 54	54 / 54
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		99		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m	Max.100		Max.65
Vertical height differences		Outdoor is higher/lower	Max.50 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~50*2		
	Heating	°CWB	-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			SRK100VNXPPZSX	SRK125VNXPPZSX	SRK140VNXTZSX
			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	Cooling/Heating	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
		Heating (Hi/Me/Lo/Ulo)	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	Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-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		

## SPECIFICATIONS - SRK -

The values are for simultaneous Multi operation.

R410A			Hyper Inverter		
Set model name			SRK100VSPZSX	SRK125VSPZSX	SRK140VSTZSX
			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	Cooling/Heating	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
		Heating (Hi/Me/Lo/Ulo)	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	°CDB	-15~-43*2		
	Heating	°CWB	-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		

R32			Micro Inverter	
Set model name			SRK100VNAWZR	SRK100VSAWZR
Indoor unit			SRK100ZR-W	SRK100ZR-W
Outdoor unit			FDC100VNA-W	FDC100VSA-W
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	kW	3.19 / 3.04	3.19 / 3.04
EER/COP	Cooling/Heating		3.13 / 3.68	3.13 / 3.68
Inrush current	A		5	5
Max. current			24	15
Sound power level*1	Indoor	Cooling/Heating	63 / 63	63 / 63
	Outdoor	Cooling/Heating	69 / 70	69 / 70
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)	48 / 45 / 40 / 27	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating	54 / 55	54 / 55
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6 / 10.4
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1 / 13.6
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		16.5	
	Outdoor		77	78
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	°CDB	-15~-50*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty			Polypropylene net x2 (Washable)	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E	

### NOTES:

The data are measured under the following conditions (R32 : ISO-T1, -H1 / R410A : 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.

**SRK** | **Indoor Unit**

R32			Micro Inverter				
Set model name			SRK100VNAWPZSX	SRK125VNAWPZSX	SRK140VNAWPZR	SRK140VNAWTZSX	
			Twin			Triple	
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK71ZR-W x 2	SRK50ZSX-W x 3	
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W	FDC140VNA-W	
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	2.89 / 2.61	4.54 / 3.58	4.26 / 4.03	4.26 / 3.74	
EER/COP	Cooling/Heating		3.46 / 4.29	2.76 / 3.91	3.19 / 3.85	3.19 / 4.14	
Inrush current		A	5	5	5	5	
Max. current			24	24	24	24	
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	dB(A)	59 / 62	62 / 63	57 / 60	
	Outdoor			Cooling/Heating	69 / 70	71 / 71	72 / 73
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling (Hi/Me/Lo/Ulo)		44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 41 / 37 / 25	44 / 39 / 31 / 22
	Outdoor	Heating (Hi/Me/Lo/Ulo)		46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 39 / 35 / 28	46 / 41 / 33 / 23
Air flow	Indoor* <sup>3</sup>	Cooling/Heating	m³/min	54 / 55	54 / 56	56 / 58	
		Cooling (Hi/Me/Lo/Ulo)		14.3/ 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	20.5 / 18.6 / 16.2 / 10.4	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	25.0 / 19.8 / 17.3 / 13.3	17.3 / 14.3 / 9.8 / 6.2	
Exterior dimensions	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73	75 / 73	
	Indoor	HeightxWidthxDepth	305 x 920 x 220		339 x 1197 x 262	305 x 920 x 220	
Net weight	Outdoor		845 x 970 x 370				
	Indoor		13		15.5	13	
			77				
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	°CDB	-15~50* <sup>2</sup>				
	Heating	°CWB	-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.

R32			Micro Inverter			
Set model name			SRK100VSAWPZSX	SRK125VSAWPZSX	SRK140VSAWPZR	SRK140VSAWTZSX
			Twin			Triple
Indoor unit			SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK71ZR-W x 2	SRK50ZSX-W x 3
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC140VSA-W
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 )	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	2.89 / 2.61	4.54 / 3.58	4.26 / 4.03	4.26 / 3.74
EER/COP	Cooling/Heating		3.46 / 4.29	2.76 / 3.91	3.19 / 3.85	3.19 / 4.14
Inrush current		A	5	5	5	5
Max. current			15	15	15	15
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	dB(A)	59 / 62	62 / 63	57 / 60	59 / 62
	Outdoor		69 / 70	71 / 71	72 / 73	72 / 73
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	dB(A)	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 41 / 37 / 25	44 / 39 / 31 / 22
	Outdoor		46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 39 / 35 / 28	46 / 41 / 33 / 23
Air flow	Indoor* <sup>3</sup>	m <sup>3</sup> /min	Cooling (Hi/Me/Lo/Ulo)	54 / 55	54 / 56	56 / 58
			Heating (Hi/Me/Lo/Ulo)	14.3/ 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	20.5 / 18.6 / 16.2 / 10.4
	Outdoor	Cooling/Heating	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	25.0 / 19.8 / 17.3 / 13.3	17.3 / 14.3 / 9.8 / 6.2
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	75 / 73	75 / 73	75 / 73
	Outdoor			305 x 920 x 220		339 x 1197 x 262
Net weight	Indoor		kg	845 x 970 x 370		
	Outdoor			13	15.5	13
Ref.piping size	Liquid/Gas			78		
Refrigerant line (one way) length				9.52(3/8") / 15.88(5/8")		
Vertical height differences		Outdoor is higher/lower		Max.50		
Outdoor operating temperature range		Cooling	°CDB	-15~50* <sup>2</sup>		
		Heating	°CWB	-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		



## SPECIFICATIONS - SRK -

R410A			Micro Inverter	
Set model name			SRK100VNAZR	SRK100VSAZR
Indoor unit			SRK100ZR-W	SRK100ZR-W
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	kW	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/Lo/Ulo)	48 / 45 / 40 / 27	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating	54 / 56	54 / 56
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6 / 10.4
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1 / 13.6
	Outdoor	Cooling/Heating	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		16.5	
	Outdoor		80	82
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-20~20	
Air filter, Q'ty			Polypropylene net x2 (Washable)	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E	

The values are for simultaneous Multi operation.

R410A			Micro Inverter	
Set model name			SRK200VSAPZR	
Indoor unit			Twin	
Outdoor unit			SRK100ZR-W x 2	
Power source			FDC200VSA	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)		kW	19.0 ( 5.2 ~ 22.4 )	
Nominal heating capacity (Min~Max)		kW	22.4 ( 3.3 ~ 25.0 )	
Power consumption	Cooling/Heating	kW	7.52 / 7.41	
EER/COP	Cooling/Heating		2.53 / 3.02	
Inrush current		A	5	
Max. current			20	
Sound power level*1	Indoor	Cooling/Heating	63 / 63	
	Outdoor	Cooling/Heating	72 / 74	
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)	48 / 45 / 40 / 27	
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30	
	Outdoor	Cooling/Heating	58 / 59	
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4	
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6	
	Outdoor	Cooling/Heating	135 / 135	
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262	
	Outdoor		1,300 x 970 x 370	
Net weight	Indoor		16.5	
	Outdoor		115	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 22.22(7/8")	
Refrigerant line (one way) length		m	Max.70	
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~50*2	
	Heating	°CWB	-15~20	
Air filter, Q'ty			Polypropylene net x2 (Washable)	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E	

### NOTES:

The data are measured under the following conditions (R32 : ISO-T1, -H1 / R410A : 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.

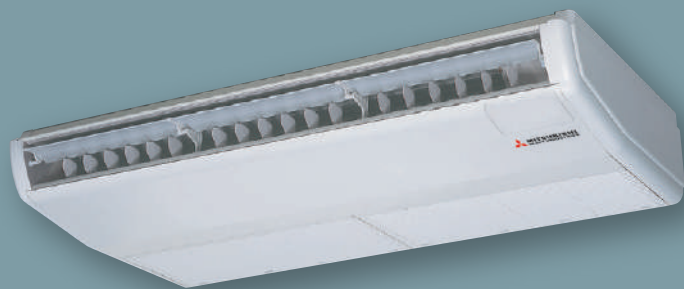
\*3 : The values are for one indoor unit operation. (Multi system only)

R32			Standard Inverter	
Set model name			SRK71VNPWZR	SRK100VNPWZR
Indoor unit			SRK71ZR-W	SRK100ZR-W
Outdoor unit			FDC71VNP-W	FDC100VNP-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.5 ~ 7.3 )	9.6 ( 2.1 ~ 9.6 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.1 ~ 7.3 )	10.0 ( 1.7 ~ 10.4 )
Power consumption	Cooling/Heating	kW	2.36 / 1.88	3.10 / 2.80
EER/COP	Cooling/Heating		3.01 / 3.78	3.10 / 3.57
Inrush current		A	5	5
Max. current			15.8	19
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	57 / 60	63 / 63
	Outdoor	Cooling/Heating	67 / 67	68 / 67
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling (Hi/Me/Lo/Ulo)	44 / 41 / 37 / 25	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)	46 / 39 / 35 / 28	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating	54 / 54	56 / 54
Air flow	Indoor* <sup>3</sup>	Cooling (Hi/Me/Lo/Ulo)	20.5 / 18.6 / 16.2 / 10.4	24.5 / 21.3 / 17.6 / 10.4
		Heating (Hi/Me/Lo/Ulo)	25.0 / 19.8 / 17.3 / 13.3	27.5 / 23.2 / 19.1 / 13.6
	Outdoor	Cooling/Heating	42 / 42	63 / 55
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262	
	Outdoor		640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		15.5	16.5
	Outdoor		45	57
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.30	
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB	-15~46* <sup>2</sup>	
	Heating	°CWB	-15~20	
Air filter, Q'ty			Polypropylene net x2 (Washable)	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E	

R410A			Standard Inverter	
Set model name			SRK100VNPW1ZR	
Indoor unit			SRK100ZR-W	
Outdoor unit			FDC100VNP	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz	
Nominal cooling capacity (Min~Max)		kW	10.0 ( 2.4 ~ 10.5 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 3.2 ~ 11.5 )	
Power consumption	Cooling/Heating	kW	3.09 / 3.28	
EER/COP	Cooling/Heating		3.24 / 3.41	
Inrush current		A	14.4	
Max. current			21	
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	63 / 63	
	Outdoor	Cooling/Heating	70 / 74	
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling (Hi/Me/Lo/Ulo)	48 / 45 / 40 / 27	
		Heating (Hi/Me/Lo/Ulo)	48 / 43 / 38 / 30	
	Outdoor	Cooling/Heating	57 / 61	
Air flow	Indoor* <sup>3</sup>	Cooling (Hi/Me/Lo/Ulo)	24.5 / 21.3 / 17.6 / 10.4	
		Heating (Hi/Me/Lo/Ulo)	27.5 / 23.2 / 19.1 / 13.6	
	Outdoor	Cooling/Heating	75 / 80	
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		16.5	
	Outdoor		70	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.30	
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°CDB	-15~46* <sup>2</sup>	
	Heating	°CWB	-15~20	
Air filter, Q'ty			Polypropylene net x2 (Washable)	
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E	

# FDE

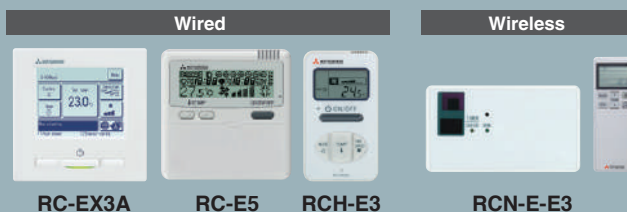
## Indoor Unit Ceiling Suspended



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



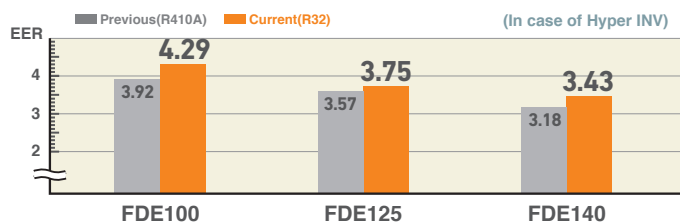
### Remote control (option)



\*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.



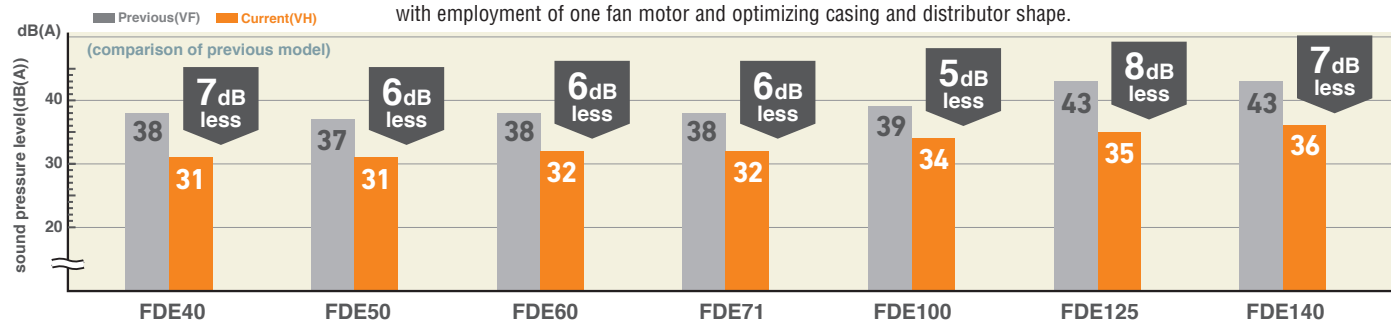
## Reduction of Weight

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

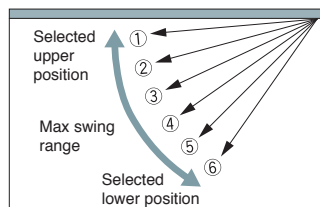
	Previous(VF)	Current(VH)	
60-71VH	37	33	4kg less!!
100-125-140VH	49	43	6kg less!!

## Reduced 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.

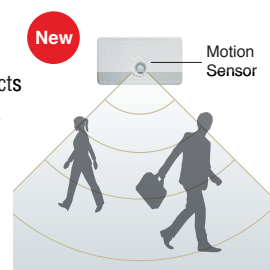
\* The wireless remote control is not applicable to the flap control system.

## 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.



LB-E



## Improved Installation Workability

The refrigerant pipe from the unit can be arranged in three directions, rear, right and up. The drain pipe can be arranged in two directions, left and right. This will allow a free layout of piping for various installation conditions. The unit can only be serviced from the bottom.

Increased  
freedom of  
a piping layout



## OUTDOOR UNIT

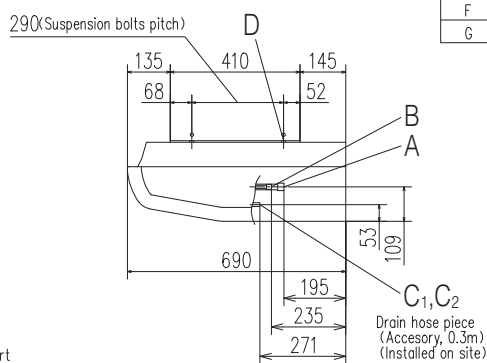
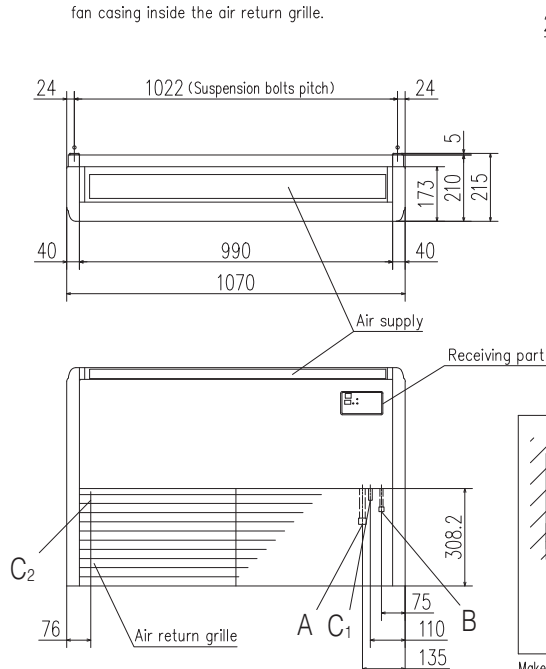
		Hyper Inverter		
SRC • FDC		40~60ZSX-W1,-W2	71VNX-W	100~140VN(S)X-W
		40~60ZSX-S	71VNX	100~140VN(S)X
model				
Chargeless		15m	30m	
Height x Width x Depth (mm)		640 x 800(+71) x 290	750 x 880(+88) x 340	1,300 x 970 x 370

		Micro Inverter			Standard Inverter		
FDC		100~140VN(S)A-W	—	200•250•280VSA-W	71VNP-W	90•100VNP-W	—
		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

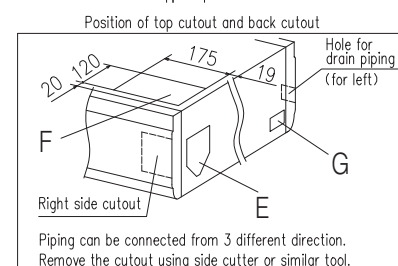
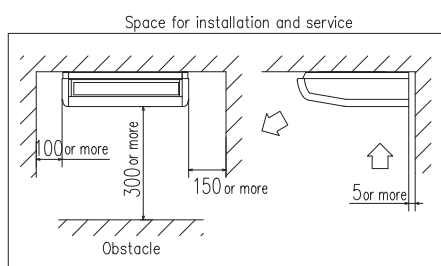
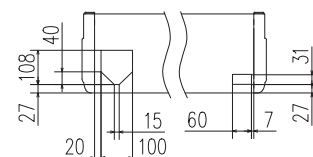
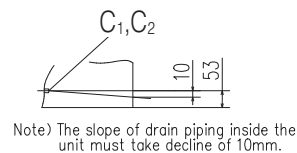
## DIMENSIONS (Unit:mm) - FDE -

### Models FDE40VH, 50VH

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



Symbol	Content
A	Gas piping $\phi 12.7 (1/2")$ (Flare)
B	Liquid piping $\phi 6.35 (1/4")$ (Flare)
C <sub>1,2</sub>	Drain piping VP20 (I.D.20, O.D.26)
D	Hole for suspension bolts (M10 or M8)
E	Back cutout PE cover
F	Top cutout Plate cover
G	Drain piping (for left back) (Knock out)



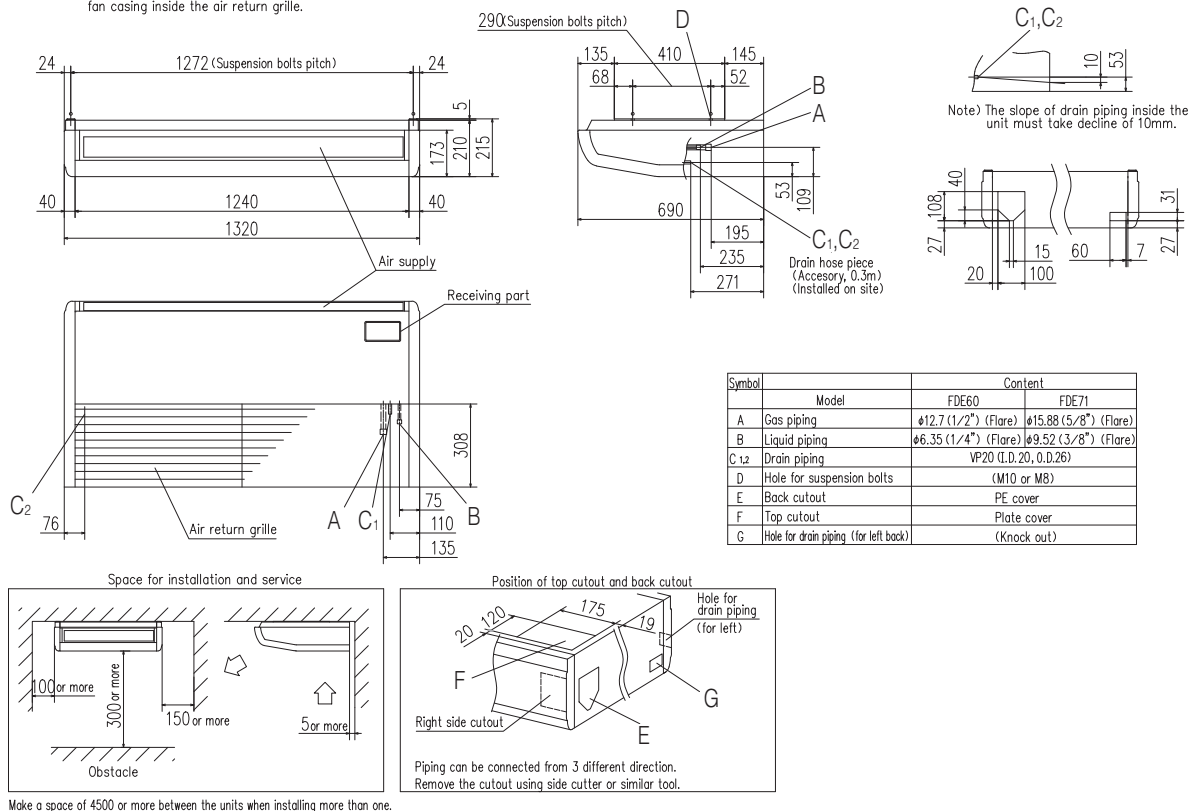
Make a space of 4000 or more between the units when installing more than one.



## DIMENSIONS (Unit:mm) - FDE -

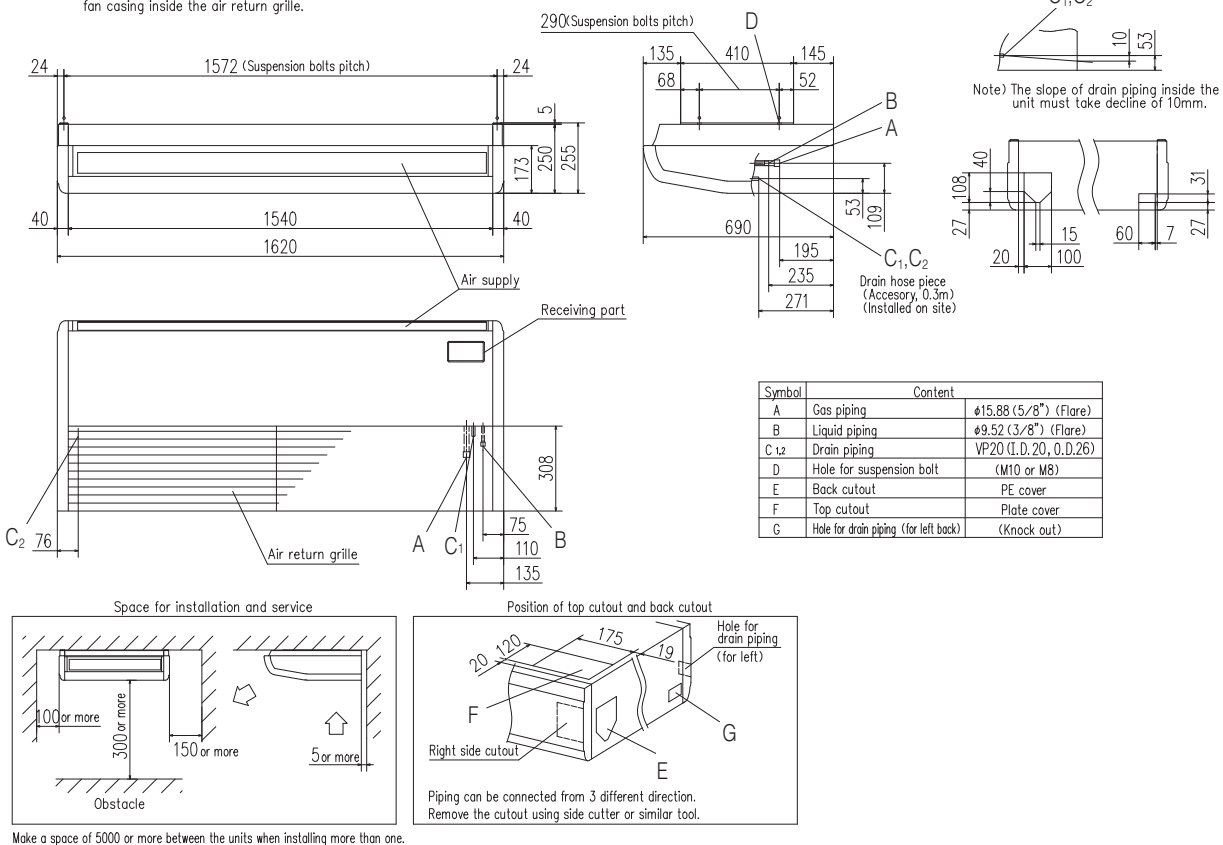
### Models FDE60VH, 71VH

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



### Models FDE100VH, 125VH, 140VH

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



R32			Hyper Inverter		
Set model name			FDE40ZSXW1VH	FDE50ZSXW2VH	FDE60ZSXW1VH
Indoor unit			FDE40VH	FDE50VH	FDE60VH
Outdoor unit			SRC40ZSX-W1	SRC50ZSX-W2	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	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	63 / 62	63 / 62	65 / 65
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)			
	Outdoor	Cooling/Heating	52 / 50	52 / 50	53 / 54
		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	33 / 33	39 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	
	Outdoor			640 x 800(+71) x 290	
Net weight	Indoor		kg	28	
	Outdoor			33	
Ref.piping size	Liquid/Gas	ømm	45		
Refrigerant line (one way) length			m	6.35(1/4") / 12.7(1/2")	
Vertical height differences			m	Max.30	
Outdoor operating temperature range			°CDB	-15~46*2	
			°CWB	-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		

R32			Hyper Inverter			
Set model name			FDE71VNXWVH	FDE100VNXWVH	FDE125VNXWVH	FDE140VNXWVH
Indoor unit			FDE71VH	FDE100VH	FDE125VH	FDE140VH
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption		Cooling/Heating kW	1.87 / 1.87	2.33 / 2.52	3.34 / 3.74	4.08 / 4.41
EER/COP		Cooling/Heating	3.80 / 4.28	4.29 / 4.45	3.75 / 3.74	3.43 / 3.63
Inrush current		A	5	5	5	5
Max. current			19.1	25	27	27
Sound power level*1	Indoor	Cooling/Heating	60 / 60	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating	66 / 66	67 / 67	68 / 70	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A) 47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo)				
	Outdoor	Cooling/Heating	51 / 51	53 / 51	53 / 54	54 / 54
		Cooling (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
Air flow	Indoor	Heating (P-Hi/Hi/Me/Lo)	m³/min 20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,320 x 690		
	Outdoor			750 x 880(+88) x 340		
Net weight	Indoor		kg	43		
	Outdoor			97		
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	°CDB	-15~50*2		
		Heating	°CWB	-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, -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.

## SPECIFICATIONS - FDE -

R32			HyperInverter		
Set model name			FDE100VSXWVH	FDE125VSXWVH	FDE140VSXWVH
Indoor unit			FDE100VH	FDE125VH	FDE140VH
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)			11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )
Power consumption			Cooling/Heating kW	2.33 / 2.52	3.34 / 3.74
EER/COP			Cooling/Heating	4.29 / 4.45	3.75 / 3.74
Inrush current			A	5	5
Max. current			A	14	14
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 71
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	48 / 43 / 38 / 34	49 / 45 / 40 / 36
	Indoor	Heating (P-Hi/Hi/Me/Lo)		48 / 43 / 38 / 34	49 / 45 / 40 / 36
	Outdoor	Cooling/Heating	m³/min	53 / 51	54 / 54
	Outdoor	Cooling/Heating		32 / 26 / 21 / 16.5	32 / 29 / 23 / 17
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min	32 / 26 / 21 / 16.5	34 / 29 / 23 / 18
	Indoor	Heating (P-Hi/Hi/Me/Lo)		32 / 26 / 21 / 16.5	34 / 29 / 23 / 18
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690	
	Outdoor	HeightxWidthxDepth		1,300 x 970 x 370	
Net weight	Indoor		kg	43	
	Outdoor			99	
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.50 / Max.15
Outdoor operating temperature range	Cooling	°CDB			-15~50*2
	Heating	°CWB			-20~20
Air filter, Q'ty					Pocket Plastic net x2(Washable)
Remote control (option)					wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3

The values are for simultaneous Multi operation.

R32			HyperInverter				
Set model name			FDE71VNXWVH	FDE100VNXWVH	FDE125VNXWVH	FDE140VNXWVH	FDE140VNXWTVH
Indoor unit			FDE40VH x 2	FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W	FDC140VNX-W
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			7.1 ( 3.2 ~ 8.0 )	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )
Nominal heating capacity (Min~Max)			8.0 ( 3.6 ~ 9.0 )	11.2 ( 2.7 ~ 12.5 )	14.0 ( 2.7 ~ 17.0 )	16.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 18.0 )
Power consumption			Cooling/Heating kW	1.76 / 2.10	2.48 / 2.88	3.49 / 3.27	4.16 / 3.97
EER/COP			Cooling/Heating	4.03 / 3.81	4.04 / 3.89	3.58 / 4.29	3.36 / 4.03
Inrush current			A	5	5	5	5
Max. current			A	19.1	25	27	27
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		66 / 66	67 / 67	68 / 70	69 / 71
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	47 / 41 / 37 / 32
	Indoor*3	Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating	m³/min	51 / 51	53 / 51	53 / 54	54 / 54
	Outdoor	Cooling/Heating		13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	m³/min	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
	Indoor*3	Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
Exterior dimensions	Indoor	HeightxWidthxDepth	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	HeightxWidthxDepth		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	97	97	97
Ref.piping size			Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max. 50	Max. 100	Max. 100	Max. 85
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15	Max.50 / Max.15	Max.50 / Max.15
Outdoor operating temperature range	Cooling	°CDB					-15~50*2
	Heating	°CWB					-20~20
Air filter, Q'ty							Pocket plastic net x 2(Washable)
Remote control (option)							wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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.

FDE | Indoor Unit

R32			HyperInverter				
Set model name			FDE100VSXWPH	FDE125VSXWPH	FDE140VSXWPH	FDE140VSXWTVH	
			Twin			Triple	
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3	
Outdoor unit			FDC100VSX-W	FDC125VSX-W	FDC140VSX-W	FDC140VSX-W	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 ( 3.5 ~ 11.2 )	12.5 ( 3.5 ~ 14.0 )	14.0 ( 3.5 ~ 16.0 )	14.0 ( 3.5 ~ 16.0 )	
Nominal heating capacity (Min~Max)		kW	11.2 ( 2.7 ~ 16.0 )	14.0 ( 2.7 ~ 18.0 )	16.0 ( 2.7 ~ 20.0 )	16.0 ( 2.7 ~ 20.0 )	
Power consumption	Cooling/Heating	kW	2.48 / 2.88	3.49 / 3.27	4.16 / 3.97	3.72 / 4.11	
EER/COP	Cooling/Heating		4.04 / 3.89	3.58 / 4.29	3.36 / 4.03	3.76 / 3.89	
Inrush current		A	5	5	5	5	
Max. current			14	14	14	14	
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	
	Outdoor			Cooling/Heating	67 / 67	68 / 70	69 / 71
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		53 / 51	53 / 54	54 / 54	54 / 54
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		m³/min	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7		20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	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			
Net weight	Indoor		kg	28	33	28	
	Outdoor			99			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.100		Max.85		
Vertical height differences	Outdoor is higher/lower	m	Max.50 / Max.15				
Outdoor operating temperature range	Cooling	°CDB	-15~50*2				
	Heating	°CWB	-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				

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)		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	1.52 / 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
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
		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		m	Max.30		
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-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		

## SPECIFICATIONS - FDE -

R410A			HyperInverter			
Set model name			FDE71VNXVH	FDE100VNXVH	FDE125VNXVH	FDE140VNXVH
Indoor unit			FDE71VH	FDE100VH	FDE125VH	FDE140VH
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	2.11 / 2.11	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69
EER/COP	Cooling/Heating		3.36 / 3.79	3.92 / 4.18	3.57 / 3.71	3.18 / 3.41
Inrush current		A	5	5	5	5
Max. current			17	24	26	26
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	64 / 64	64 / 64
	Outdoor			Cooling/Heating	66 / 66	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 45 / 40 / 35
		Heating (P-Hi/Hi/Me/Lo)		47 / 41 / 37 / 32	48 / 43 / 38 / 34	48 / 45 / 40 / 35
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)		m³/min	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5
		Heating (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10		32 / 26 / 21 / 16.5	32 / 29 / 23 / 17
	Outdoor	Cooling/Heating	60 / 50		100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,320 x 690		
	Outdoor			750 x 880(+88) x 340		
Net weight	Indoor		kg	43		
	Outdoor			105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.50	Max.100	
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15		
Outdoor operating temperature range	Cooling		°CDB	-15~43*2		
	Heating		°CWB	-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			HyperInverter				
Set model name			FDE100VSXVH	FDE125VSXVH	FDE140VSXVH		
Indoor unit			FDE100VH	FDE125VH	FDE140VH		
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	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69		
EER/COP	Cooling/Heating		3.92 / 4.18	3.57 / 3.71	3.18 / 3.41		
Inrush current		A	5	5	5		
Max. current			15	15	15		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	64 / 64		
	Outdoor	Cooling/Heating		70 / 70	70 / 70		
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		48 / 50	48 / 50	49 / 52	
		Air flow		Cooling (P-Hi/Hi/Me/Lo)	m³/min	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17
Heating (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5		32 / 29 / 23 / 17	34 / 29 / 23 / 18			
Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690			
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	43			
	Outdoor			105			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.100			
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°CDB	-15~43*2				
	Heating	°CWB	-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.

FDE | Indoor Unit

R410A			HyperInverter				
Set model name			FDE71VNXPVH	FDE100VNXPVH	FDE125VNXPVH	FDE140VNXPVH	FDE140VNXTVH
			Twin				Triple
Indoor unit			FDE40VH x 2	FDE50VH x 2	FDE60VH x 2	FDE71VH 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* <sup>1</sup>	Indoor* <sup>3</sup>	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor		66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>		46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor		46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
Air flow	Indoor* <sup>3</sup>	m <sup>3</sup> /min	Cooling/Heating	51 / 48	48 / 50	49 / 52	49 / 52
			Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
	Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor		Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor			750 x 880(+88) x 340		1,300 x 970 x 370	
Net weight	Indoor		kg	28		33	
	Outdoor			60		105	
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max. 50	Max. 100		
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling		°CDB	-15~43* <sup>2</sup>			
	Heating		°CWB	-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			HyperInverter				
Set model name			FDE100VSXPVH	FDE125VSXPVH	FDE140VSXPVH	FDE140VSXTVH	
			Twin			Triple	
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH 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	dB(A)	Cooling/Heating	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
Air flow	Indoor*3	m³/min	Cooling/Heating	48 / 50	48 / 50	49 / 52	
			Cooling (P-Hi/Hi/Me/Lo)	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			210 x 1,320 x 690		210 x 1,070 x 690	
Net weight	Indoor		kg	28	33	28	
	Outdoor			105			
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.100				
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°CDB	-15~43*2				
	Heating	°CWB	-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 -

R32			Micro Inverter		
Set model name			FDE100VNAWVH	FDE125VNAWVH	FDE140VNAWVH
Indoor unit			FDE100VH	FDE125VH	FDE140VH
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W
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 / 2.54	4.45 / 3.74	5.05 / 4.18
EER/COP	Cooling/Heating		3.51 / 4.41	2.81 / 3.74	2.69 / 3.71
Inrush current		A	5	5	5
Max. current			24	24	24
Sound power level*1	Indoor	Cooling/Heating	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating	69 / 70	71 / 71	72 / 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 / 55	54 / 56	56 / 58
		Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
Air flow	Indoor	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	250 x 1,620 x 690		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		43		
	Outdoor		77		
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	°CDB	-15~50*2		
	Heating	°CWB	-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		

R32			Micro Inverter		
Set model name			FDE100VSAWVH	FDE125VSAWVH	FDE140VSAWVH
Indoor unit			FDE100VH	FDE125VH	FDE140VH
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W
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 / 2.54	4.45 / 3.74	5.05 / 4.18
EER/COP	Cooling/Heating		3.51 / 4.41	2.81 / 3.74	2.69 / 3.71
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	69 / 70	71 / 71	72 / 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 / 55	54 / 56	56 / 58
		Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
Air flow	Indoor	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	250 x 1,620 x 690		
	Outdoor		845 x 970 x 370		
Net weight	Indoor		43		
	Outdoor		78		
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	°CDB	-15~50*2		
	Heating	°CWB	-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, -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.

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

The values are for simultaneous Multi operation.

R32			Micro Inverter				
Set model name			FDE100VNAWPVH	FDE125VNAWPVH	FDE140VNAWPVH	FDE140VNAWTVH	
			Twin			Triple	
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3	
Outdoor unit			FDC100VNA-W	FDC125VNA-W	FDC140VNA-W	FDC140VNA-W	
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	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21	
EER/COP	Cooling/Heating		3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68	
Inrush current		A	5	5	5	5	
Max. current			24	24	24	24	
Sound power level*1	Indoor*3	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	
	Outdoor		69 / 70	71 / 71	72 / 73	72 / 73	
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	54 / 55	54 / 56	56 / 58	56 / 58
Air flow	Indoor*3	m³/min	Cooling (P-Hi/Hi/Me/Lo)	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	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690	210 x 1,070 x 690
	Outdoor			845 x 970 x 370			
Net weight	Indoor		kg	28	33	28	
	Outdoor			77			
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		°CDB	-15~50*2			
	Heating		°CWB	-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.

R32			Micro Inverter			
Set model name			FDE100VSAWPVH	FDE125VSAWPVH	FDE140VSAWPVH	FDE140VSAWTVH
			Twin		Triple	
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit			FDC100VSA-W	FDC125VSA-W	FDC140VSA-W	FDC140VSA-W
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 )	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	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21
EER/COP	Cooling/Heating		3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68
Inrush current		A	5	5	5	5
Max. current			15	15	15	15
Sound power level*1	Indoor*3	dB(A)	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor		Cooling/Heating	69 / 70	71 / 71	72 / 73
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 / 55	54 / 56	56 / 58
Air flow	Indoor*3	m³/min	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
			Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
	Outdoor		Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,070 x 690
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	28	33	28
	Outdoor			78		
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	°CDB	-15~50*2			
	Heating	°CWB	-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.

R32			Micro Inverter				
Set model name			FDE200VSAWPH	FDE250VSAWPH	FDE280VSAWPH	FDE200VSAWTVH	
			Twin			Triple	
Indoor unit			FDE100VH x 2	FDE125VH x 2	FDE140VH x 2	FDE71VH x 3	
Outdoor unit			FDC200VSA-W	FDC250VSA-W	FDC280VSA-W	FDC200VSA-W	
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	20.0 ( 6.7 ~ 22.4 )	25.0 ( 6.7 ~ 28.0 )	27.0 ( 7.1 ~ 31.5 )	20.0 ( 7.5 ~ 22.4 )	
Nominal heating capacity (Min~Max)		kW	22.4 ( 6.6 ~ 25.0 )	28.0 ( 5.2 ~ 31.5 )	30.0 ( 5.8 ~ 33.5 )	22.4 ( 6.6 ~ 25.0 )	
Power consumption	Cooling/Heating	kW	6.29 / 5.66	8.20 / 7.93	9.31 / 8.98	6.29 / 5.66	
EER/COP	Cooling/Heating		3.18 / 3.96	3.05 / 3.53	2.90 / 3.34	3.18 / 3.96	
Inrush current		A	5	5	5	5	
Max. current			19	20	20	19	
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	64 / 64	65 / 65	60 / 60	
	Outdoor			Cooling/Heating	72 / 74	73 / 75	75 / 77
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)		48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	47 / 41 / 37 / 32
Air flow	Outdoor	Cooling/Heating	58 / 59	58 / 62	61 / 63	58 / 59	
		Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	20 / 16 / 13 / 10	
		Heating (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	20 / 16 / 13 / 10	
	Outdoor	Cooling/Heating	148 / 134	148 / 153	136 / 140	148 / 134	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690			210 x 1,320 x 690
	Outdoor			1,505 x 970 x 370			
Net weight	Indoor		kg	43			33
	Outdoor			144	145	155	144
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") / 22.22(7/8")	
Refrigerant line (one way) length		m	Max.70			Max.70	
Vertical height differences	Outdoor is higher/lower	m	Max.50*4 / Max.15				
Outdoor operating temperature range	Cooling	°CDB	-15~50*2				
	Heating	°CWB	-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.

R32			Micro Inverter		
Set model name			FDE200VSAWDVH	FDE250VSAWDVH	FDE280VSAWDVH
			Double Twin		
Indoor unit			FDE50VH x 4	FDE60VH x 4	FDE71VH x 4
Outdoor unit			FDC200VSA-W	FDC250VSA-W	FDC280VSA-W
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	20.0 ( 7.8 ~ 22.4 )	25.0 ( 7.8 ~ 28.0 )	27.0 ( 7.5 ~ 31.5 )
Nominal heating capacity (Min~Max)		kW	22.4 ( 6.6 ~ 25.0 )	28.0 ( 5.2 ~ 31.5 )	30.0 ( 5.8 ~ 33.5 )
Power consumption	Cooling/Heating	kW	6.29 / 5.66	8.04 / 7.32	9.15 / 8.98
EER/COP	Cooling/Heating		3.18 / 3.96	3.11 / 3.83	2.95 / 3.34
Inrush current		A	5	5	5
Max. current			19	20	20
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	72 / 74	73 / 75	75 / 77
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	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	58 / 59	58 / 62	61 / 63
Air flow	Indoor* <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating	148 / 134	148 / 153	136 / 140
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	
	Outdoor			210 x 1,320 x 690	
Net weight	Indoor		kg	1,505 x 970 x 370	
	Outdoor			33	
Ref.piping size	Liquid/Gas	ømm	28	145	155
Refrigerant line (one way) length		m	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	
Vertical height differences		Outdoor is higher/lower	Max.70		
Outdoor operating temperature range		Cooling	Max.50* <sup>4</sup> / Max.15		
		Heating	-15~-50* <sup>2</sup>		
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		

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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)  
\*4 : In case of following conditions:Max.50m(Outdoor unit is higher & Outdoor temperature ≤ 43°C), Max.30m(Outdoor unit is higher & Outdoor temperature > 43°C)

R410A			Micro Inverter							
Set model name			FDE100VNAVH	FDE125VNAVH	FDE140VNAVH	FDE100VSAVH	FDE125VSAVH	FDE140VSAVH		
Indoor unit			FDE100VH	FDE125VH	FDE140VH	FDE100VH	FDE125VH	FDE140VH		
Outdoor unit			FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA		
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	13.6 ( 5.0 ~ 14.5 )		
Nominal heating capacity (Min~Max)		kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	15.5 ( 4.0 ~ 16.5 )		
Power consumption	Cooling/Heating	kW	2.85 / 2.70	4.45 / 3.74	5.21 / 4.42	2.85 / 2.70	4.45 / 3.74	5.21 / 4.42		
EER/COP	Cooling/Heating		3.51 / 4.15	2.81 / 3.74	2.61 / 3.51	3.51 / 4.15	2.81 / 3.74	2.61 / 3.51		
Inrush current		A	5	5	5	5	5	5		
Max. current			24	24	24	15	15	15		
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	64 / 64	65 / 65	64 / 64	65 / 65		
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73	
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	48 / 43 / 38 / 34	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)		48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	
Air flow	Outdoor	Cooling/Heating		54 / 56	55/ 57	57 / 59	54 / 56	55/ 57	57 / 59	
	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m³/min	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	
		Heating (P-Hi/Hi/Me/Lo)		32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	
Exterior dimensions	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690						
Net weight	Outdoor		kg	845 x 970 x 370						
	Indoor			43						
Ref.piping size	Liquid/Gas		ømm	80					82	
Refrigerant line (one way) length		m		9.52(3/8") / 15.88(5/8")						
Vertical height differences	Outdoor is higher/lower	m	Max.50							
Outdoor operating temperature range	Cooling	°CDB	Max.50 / Max.15							
Air filter, Q'ty	Heating	°CWB	-15~50*2							
			-20~20							
Remote control (option)			Pocket Plastic net x2(Washable)							
			wired:RC-EX3A, RC-E5, RCH-E3    wireless:RCN-E-E3							

The values are for simultaneous Multi operation.

R410A			Micro Inverter				
Set model name			FDE100VNAPVH	FDE125VNAPVH	FDE140VNAPVH	FDE140VNATVH	
			Twin		Triple		
Indoor unit			FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH 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	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21	
EER/COP	Cooling/Heating		3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68	
Inrush current		A	5	5	5	5	
Max. current			24	24	24	24	
Sound power level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	
	Outdoor			Cooling/Heating	70 / 70	71 / 71	73 / 73
Sound pressure level* <sup>1</sup>	Indoor* <sup>3</sup>	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Indoor* <sup>3</sup>	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		54 / 56	55 / 57	57 / 59	57 / 59
	Outdoor	Cooling/Heating		13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
Air flow	Indoor* <sup>3</sup>	Heating (P-Hi/Hi/Me/Lo)	m³/min	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690	210 x 1,070 x 690	
	Outdoor			845 x 970 x 370			
Net weight	Indoor		kg	28	33	28	
	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		°CDB	-15~50* <sup>2</sup>			
	Heating		°CWB	-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		FDE100VSAPVH	FDE125VSAPVH	FDE140VSAPVH	FDE140VSATVH
		Twin		Triple	
Indoor unit		FDE50VH x 2	FDE60VH x 2	FDE71VH x 2	FDE50VH x 3
Outdoor unit		FDC100VSA	FDC125VSA	FDC140VSA	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 )	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	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	5
Max. current		15	15	15	15
Sound power level*1	Indoor*3	Cooling/Heating	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	70 / 70	73 / 73	73 / 73
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)	46 / 38 / 36 / 31	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating	54 / 56	55 / 57	57 / 59
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	13 / 10 / 9 / 7	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,070 x 690
	Outdoor			210 x 1,320 x 690	210 x 1,070 x 690
				845 x 970 x 370	
Net weight	Indoor		kg	28	33
	Outdoor			82	28
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	°CDB	-15~50*2		
	Heating	°CWB	-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		FDE200VSAPVH	FDE250VSAPVH	FDE200VSATVH	FDE200VSADVH	FDE250VSADVH
		Twin		Triple	Double Twin	
Indoor unit		FDE100VH x 2	FDE125VH x 2	FDE71VH x 3	FDE50VH x 4	FDE60VH x 4
Outdoor unit		FDC200VSA	FDC250VSA	FDC200VSA	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 )	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 )	27.0 ( 5.5 ~ 31.5 )	22.4 ( 3.3 ~ 25.0 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW	6.34 / 6.10	8.52 / 7.54	6.33 / 5.94	6.90 / 7.10
EER/COP	Cooling/Heating		3.00 / 3.67	2.82 / 3.58	3.00 / 3.77	2.75 / 3.15
Inrush current	A	5	5	5	5	5
Max. current		20	21	20	20	21
Sound power level*1	Indoor*3	Cooling/Heating	64 / 64	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	72 / 74	73 / 75	72 / 74	73 / 75
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	48 / 45 / 40 / 35	47 / 41 / 37 / 32	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)	48 / 43 / 38 / 34	48 / 45 / 40 / 35	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating	58 / 59	59 / 62	58 / 59	58 / 59
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	20 / 16 / 13 / 10	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating	135 / 135	143 / 151	135 / 135	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690	210 x 1,320 x 690	210 x 1,070 x 690
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370	1,300 x 970 x 370
				43	33	28
Net weight	Indoor		kg	115	143	33
	Outdoor			115	115	143
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") / 22.22(7/8")	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	°CDB	-15~50*2			
	Heating	°CWB	-15~20			
Air filter, Q'ty			Pocket plastic net x 2(Washable)			
Remote control (option)			wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3			

### NOTES:

The data are measured under the following conditions(R32 : ISO-T1, -H1 / R410A : 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)

R32				Standard Inverter			
Set model name				FDE71VNPWVH	FDE90VNPWVH	FDE100VNPWVH	
Indoor unit				FDE71VH	FDE100VH	FDE100VH	
Outdoor unit				FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW		7.1 ( 1.5 ~ 7.3 )	9.0 ( 2.1 ~ 9.5 )	10.0 ( 2.1 ~ 10.2 )	
Nominal heating capacity (Min~Max)		kW		7.1 ( 1.1 ~ 7.3 )	9.0 ( 1.7 ~ 9.5 )	10.0 ( 1.7 ~ 10.4 )	
Power consumption	Cooling/Heating	kW		2.41 / 1.96	2.38 / 1.99	3.00 / 2.36	
EER/COP	Cooling/Heating			2.95 / 3.62	3.78 / 4.52	3.33 / 4.24	
Inrush current		A		5	5	5	
Max. current				15.8	19	19	
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	64 / 64	64 / 64	
	Outdoor	Cooling/Heating		67 / 67	67 / 66	68 / 67	
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	55 / 53	56 / 54	
		Air flow		Indoor	Cooling (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5
Heating (P-Hi/Hi/Me/Lo)	20 / 16 / 13 / 10		32 / 26 / 21 / 16.5		32 / 26 / 21 / 16.5		
Outdoor	Cooling/Heating		42 / 42	59 / 55	63 / 55		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,320 x 690			
	Outdoor			640 x 800(+71) x 290			
Net weight	Indoor		kg	33			
	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	°CDB	-15~46*2				
	Heating	°CWB	-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				

R410A			Standard Inverter		
Set model name			FDE71VNPVH	FDE90VNP1VH	FDE100VNP1VH
Indoor unit			FDE71VH	FDE100VH	FDE100VH
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	21
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
	Heating (P-Hi/Hi/Me/Lo)		20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 26 / 21 / 16.5
Air flow	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
	Exterior dimensions	Indoor	210 x 1,320 x 690	250 x 1,620 x 690	
	Outdoor	HeightxWidthxDepth	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		m	Max.30		
Vertical height differences		Outdoor is higher/lower	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-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

#### Wired



RC-E5  
(installed)



RC-EX3A  
(option)

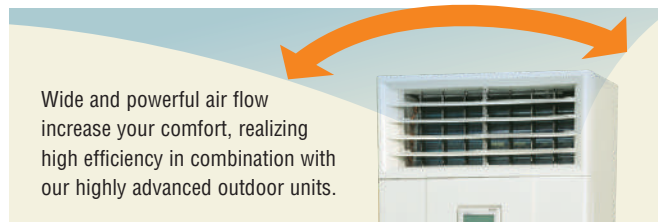
#### Wireless



RCN-KIT4-E2  
(option)

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

## Wide and Powerful Air Flow

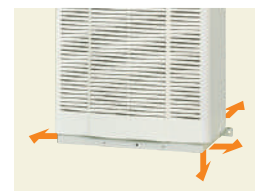


## Easy Transportation and Installation Workability

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

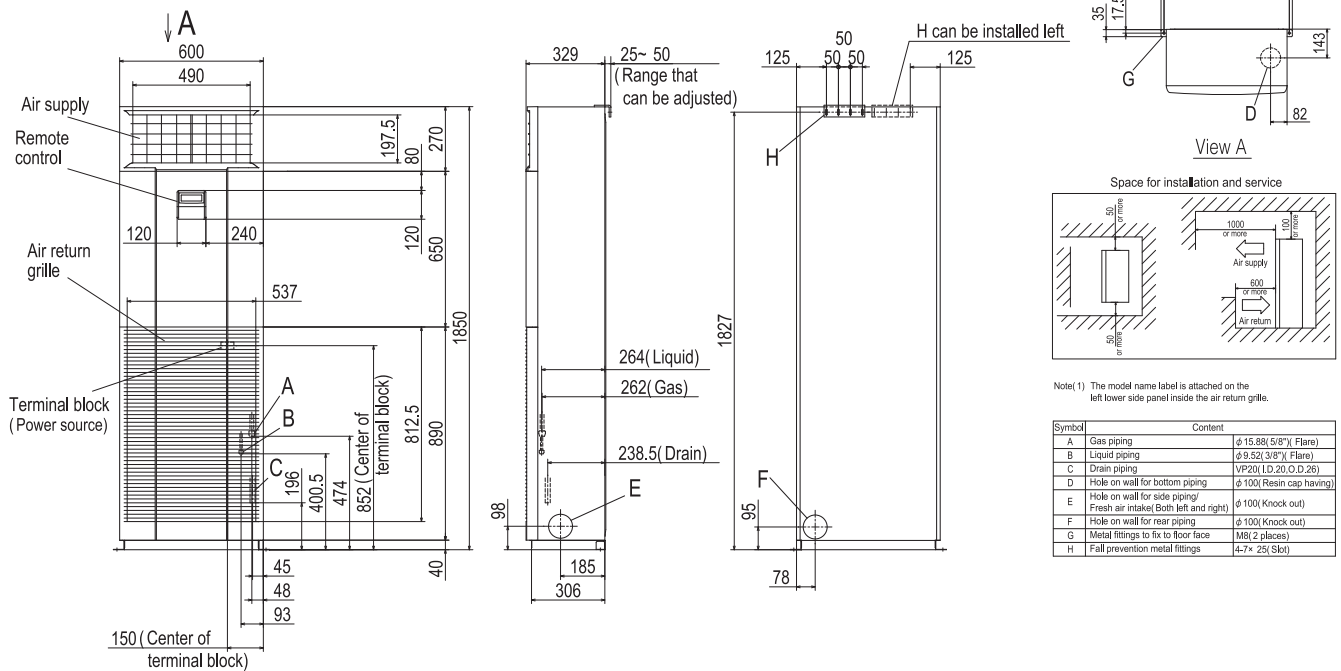
The surface of heat exchanger can be appeared only removing the front panel. Easy cleaning of heat exchanger is possible.



### 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



**SPECIFICATIONS - FDF -**

R410A			Hyper Inverter			
Set model name			FDF71VNXVD1	FDF100VNXVD2	FDF125VNXVD	FDF140VNXVD
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
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating <td>51 / 48</td> <td>48 / 50</td> <td>48 / 50</td> <td>49 / 52</td>	51 / 48	48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		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
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320		
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370	
Net weight	Indoor		kg	49	52	
	Outdoor			60	105	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.50	Max.100		
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°CDB	-15~43*2			
	Heating	°CWB	-20~20			
Air filter, Q'ty			Plastic net x 1(washable)			
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

**NOTES:**

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

## SPECIFICATIONS - FDF -

R410A			Hyper Inverter		
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)			10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption			2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP			3.53 / 3.68	3.21 / 3.61	3.01 / 3.41
Inrush current			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	70 / 70	72 / 72
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	48 / 50	48 / 50	49 / 52
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	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 320		
	Outdoor		1,300 x 970 x 370		
Net weight	Indoor		52		
	Outdoor		105		
Ref.piping size Liquid/Gas			9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			Max.100		
Vertical height differences Outdoor is higher/lower			Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°CDB	-15~43*2		
	Heating	°CWB	-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			Hyper Inverter	
Set model name			FDF140VNX PVD1	FDF140VSX PVD1
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)			14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)			16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption			4.83 / 4.97	4.83 / 4.97
EER/COP			2.90 / 3.22	2.90 / 3.22
Inrush current			5	5
Max. current			26	15
Sound power level*1	Indoor*3	Cooling/Heating	61 / 61	61 / 61
	Outdoor	Cooling/Heating	72 / 72	72 / 72
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33
		Heating (P-Hi/Hi/Me/Lo)	42 / 39 / 35 / 33	42 / 39 / 35 / 33
	Outdoor	Cooling/Heating	49 / 52	49 / 52
Air flow	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12
		Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12
	Outdoor	Cooling/Heating	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	1,850 x 600 x 320	
	Outdoor		1,300 x 970 x 370	
Net weight	Indoor		49	
	Outdoor		105	
Ref.piping size Liquid/Gas			9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			Max.100	
Vertical height differences Outdoor is higher/lower			Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°CDB	-15~43*2	
	Heating	°CWB	-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
		Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Air flow	Indoor	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		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	°CDB	-15~50*2		
	Heating	°CWB	-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
		Cooling (P-Hi/Hi/Me/Lo)	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
Air flow	Indoor	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	°CDB	-15~50*2		
	Heating	°CWB	-20~20		
Air filter, Q'ty			Plastic net x 1(Washable)		
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

## SPECIFICATIONS - FDF -

The values are for simultaneous Multi operation.

R410A			Micro Inverter			
Set model name			FDF140VNAPVD1	FDF140VSAPVD1	FDF200VSAPVD2	FDF250VSAPVD
			Twin			
Indoor unit			FDF71VD1 x 2	FDF71VD1 x 2	FDF100VD2 x 2	FDF125VD x 2
Outdoor unit			FDC140VNA	FDC140VSA	FDC200VSA	FDC250VSA
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)		kW	13.6 ( 5.0 ~ 14.5 )	13.6 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)		kW	15.5 ( 4.0 ~ 16.5 )	15.5 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	kW	5.15 / 4.35	5.15 / 4.35	6.74 / 6.42	9.15 / 8.49
EER/COP	Cooling/Heating		2.64 / 3.56	2.64 / 3.56	2.82 / 3.49	2.62 / 3.18
Inrush current		A	5	5	5	5
Max. current			24	15	20	21
Sound power level*1	Indoor*3	Cooling/Heating	dB(A)	61 / 61	61 / 61	65 / 65
	Outdoor			Cooling/Heating	73 / 73	73 / 73
Sound pressure level*1	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44
	Indoor*3	Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44
Air flow	Outdoor	Cooling/Heating	57 / 59	57 / 59	58 / 59	
	Indoor*3	Cooling (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19	
		Heating (P-Hi/Hi/Me/Lo)	18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19	
	Outdoor	Cooling/Heating	75 / 73	75 / 73	135 / 135	
Exterior dimensions	Indoor	HeightxWidthxDpth	mm	1,850 x 600 x 320		
	Outdoor			845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		kg	49	52	52
	Outdoor			80	82	115
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
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	°CDB	-15~50*2			-15~20
	Heating	°CWB	-20~20			
Air filter, Q'ty			Plastic net x 1 (washable)			
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

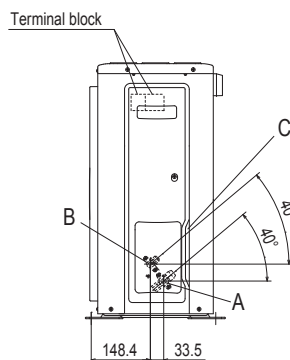
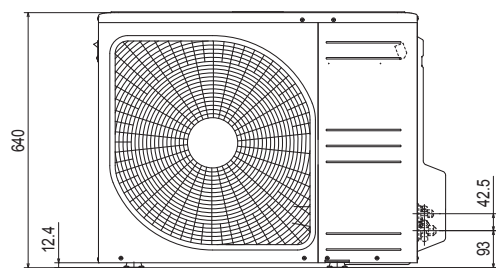
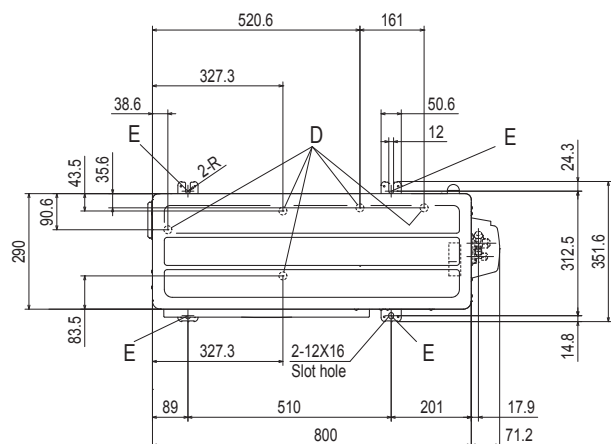
R410A			Standard Inverter		
Set model name			FDF71VNPVD1	FDF90VNP1VD2	FDF100VNP1VD2
Indoor unit			FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit			FDC71VNP	FDC90VNP1	FDC100VNP
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	kW	2.67 / 2.04	2.81 / 2.25	3.19 / 3.09
EER/COP	Cooling/Heating		2.66 / 3.48	3.20 / 4.00	3.13 / 3.62
Inrush current		A	5	5	5
Max. current			14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 69
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44
Air flow	Outdoor	Cooling/Heating		54 / 54	57 / 55
	Indoor	Cooling (P-Hi/Hi/Me/Lo)		20 / 18 / 16 / 14	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)	20 / 18 / 16 / 14	29 / 26 / 23 / 19	
Exterior dimensions	Outdoor	Cooling/Heating	36 / 36	63 / 49.5	75 / 79
	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320	
				640 x 800(+71) x 290	750 x 880(+88) x 340
Net weight	Indoor		kg	49	52
	Outdoor			45	57
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.23		Max.30
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°CDB	-15~46*2		
	Heating	°CWB	-15~20		
Air filter, Q'ty			Plastic net x1(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)

# Outdoor Unit Dimensions (Unit:mm)

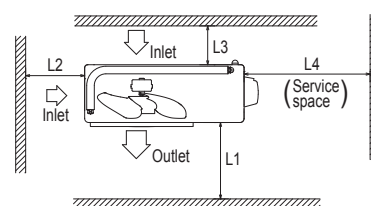
SRC40ZSX-W1, 50ZSX-W2, 60ZSX-W1  
SRC40ZSX-S, 50ZSX-S, 60ZSX-S



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	M10-12×4 places

## Notes

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

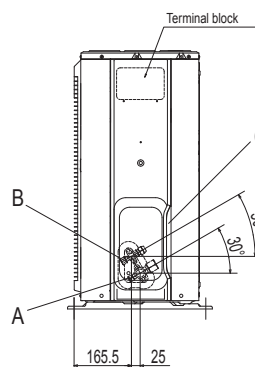
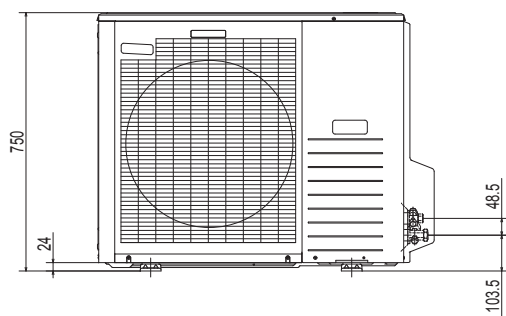
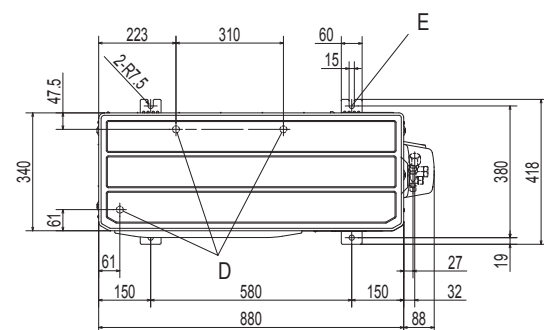


Minimum installation space

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

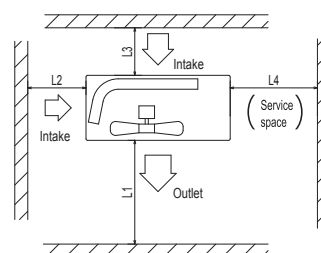
FDC71VNX-W  
FDC71VNX

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



## Notes

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

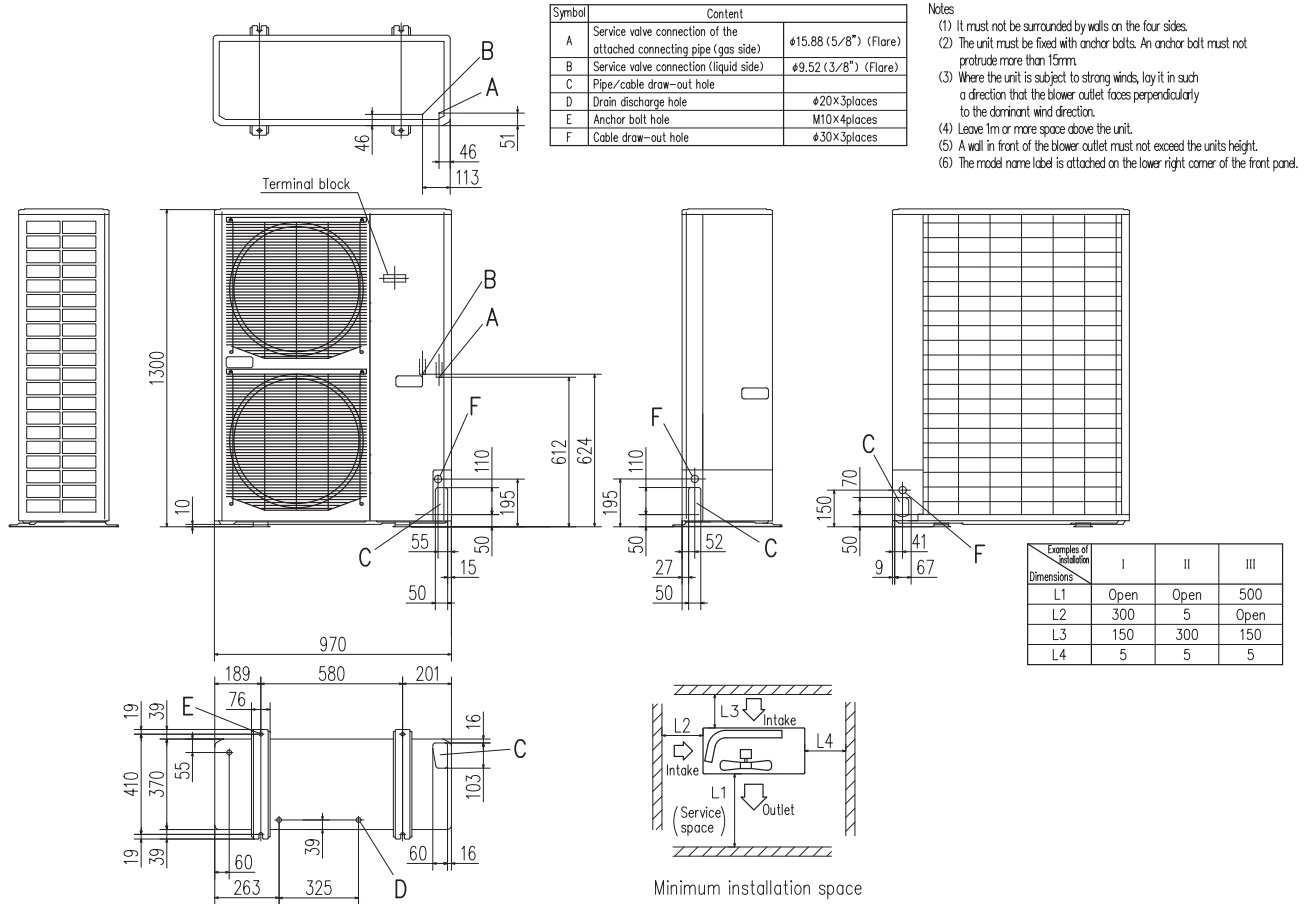


Minimum installation space

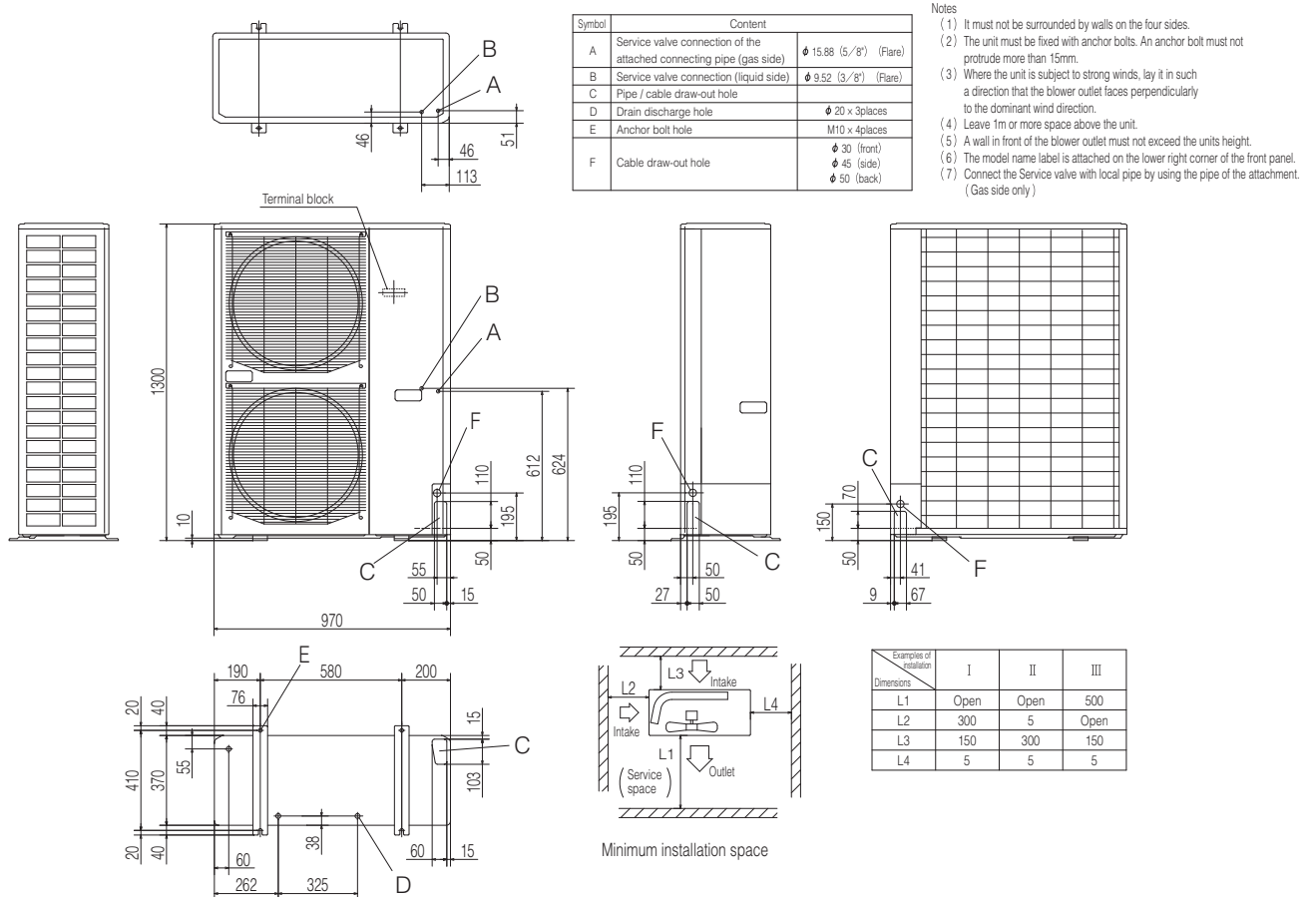
Examples of installation	I	II	III
Dimensions			
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

# Outdoor Unit Dimensions (Unit:mm)

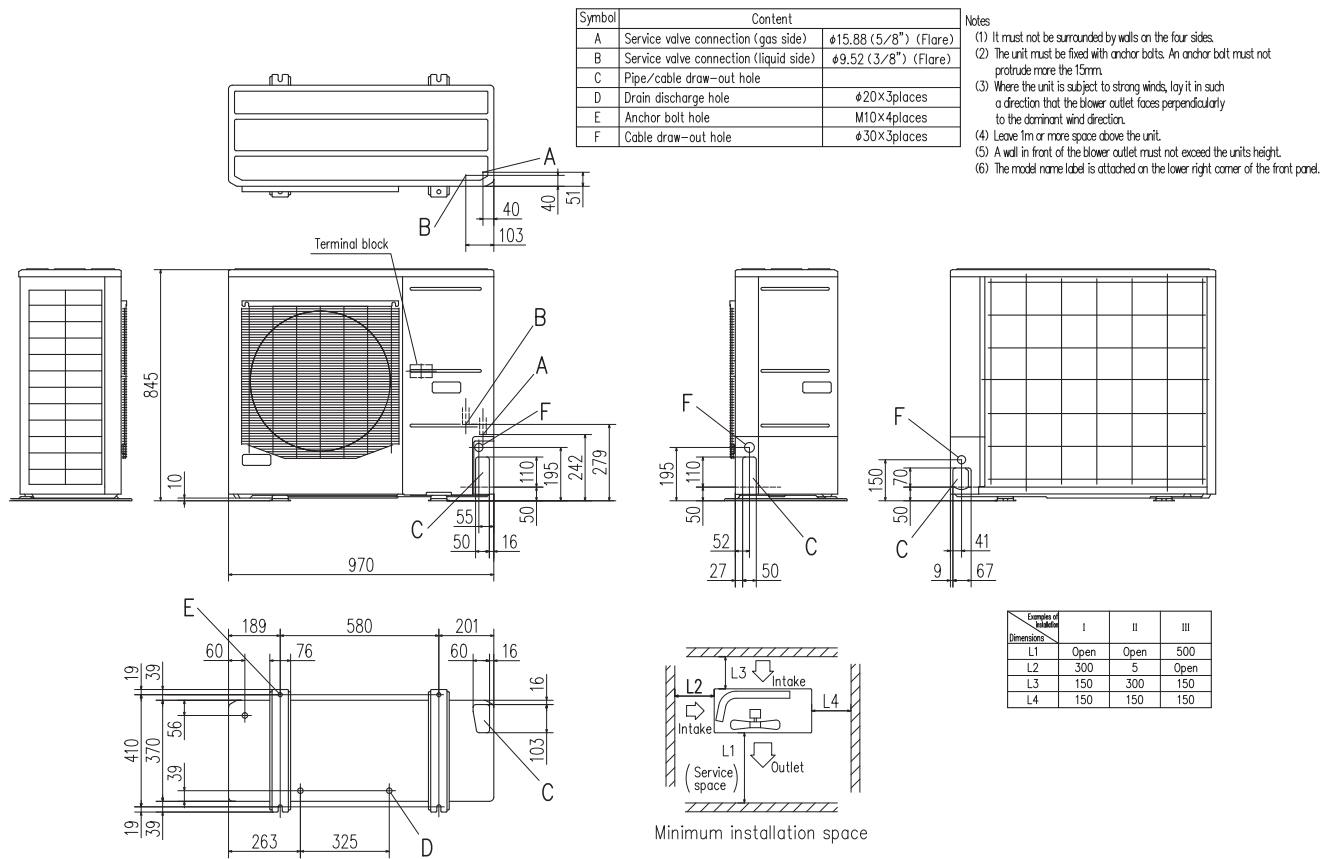
FDC100VNX-W, 125VNX-W, 140VNX-W, 100VSX-W, 125VSX-W, 140VSX-W



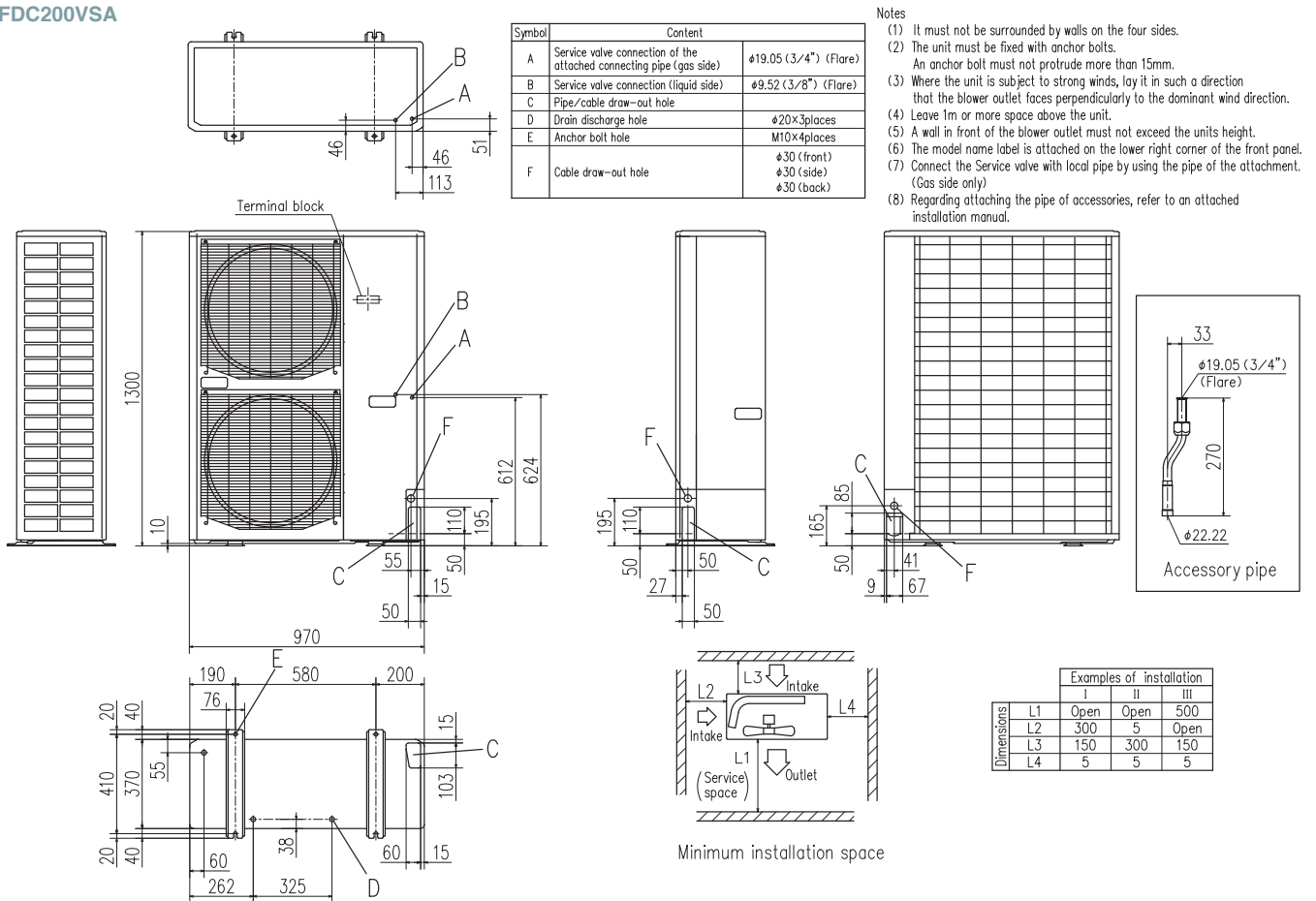
FDC100VNX, 125VNX, 140VNX, 100VSX, 125VSX, 140VSX



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



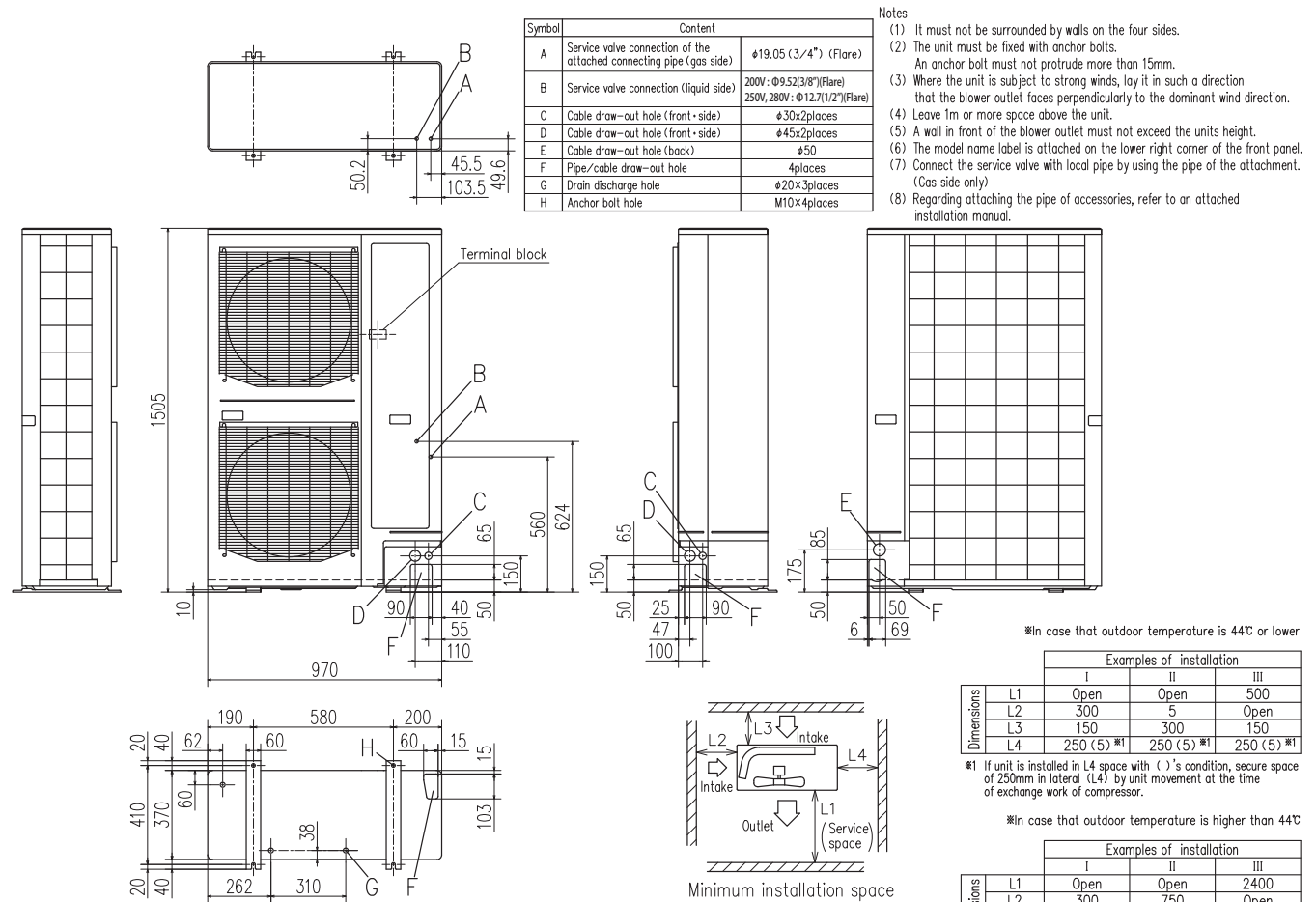
**FDC200VSA**



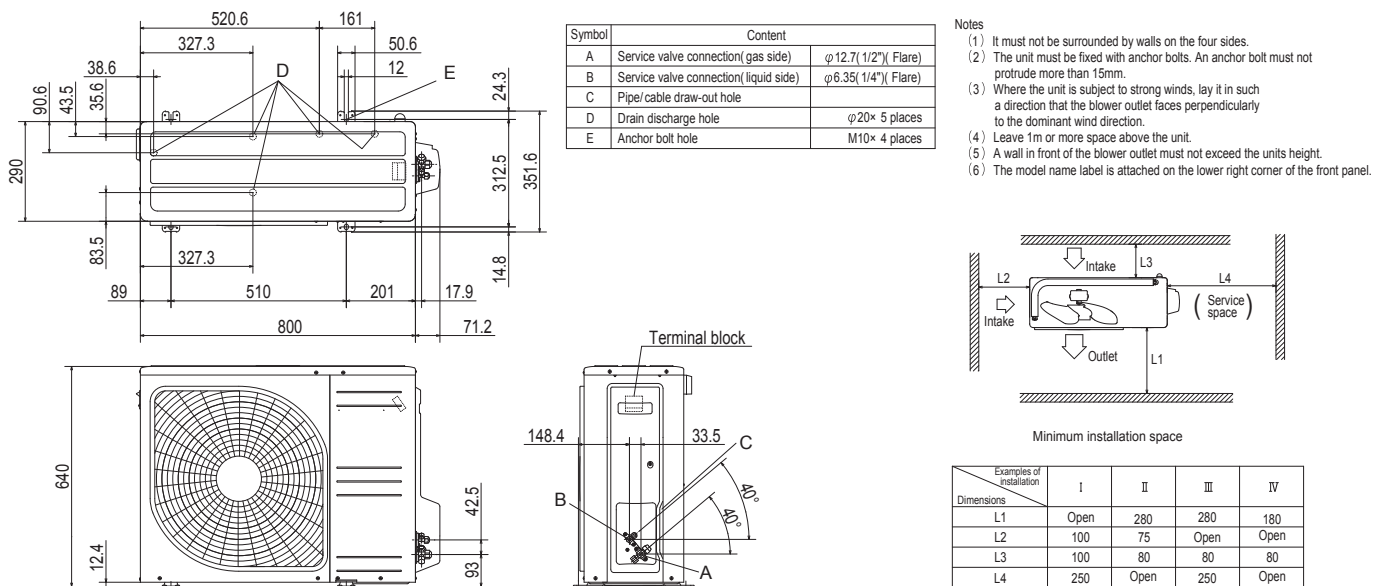


# Outdoor Unit Dimensions (Unit:mm)

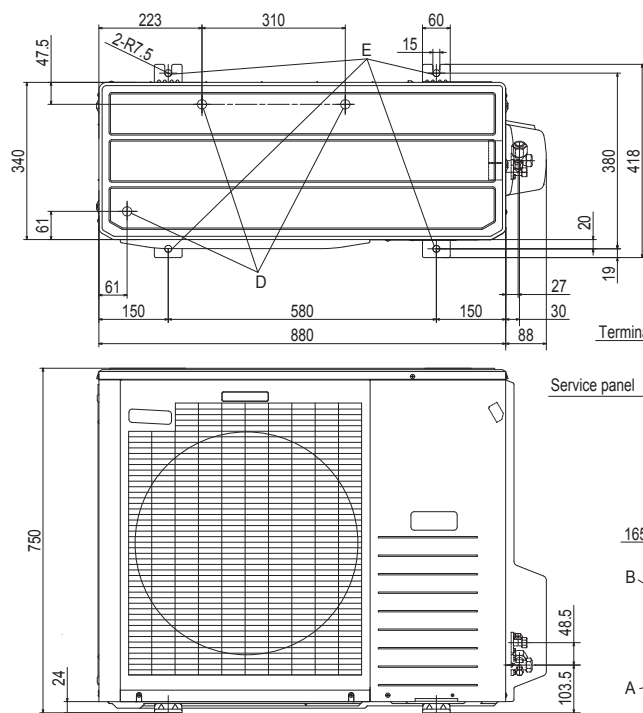
FDC200VSA-W, 250VSA-W, FDC280VSA-W  
FDC250VSA



FDC71VNP-W  
FDC71VNP

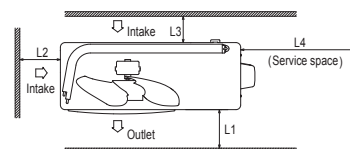


FDC90VNP-W, 100VNP-W  
FDC90VNP1



## Notes

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

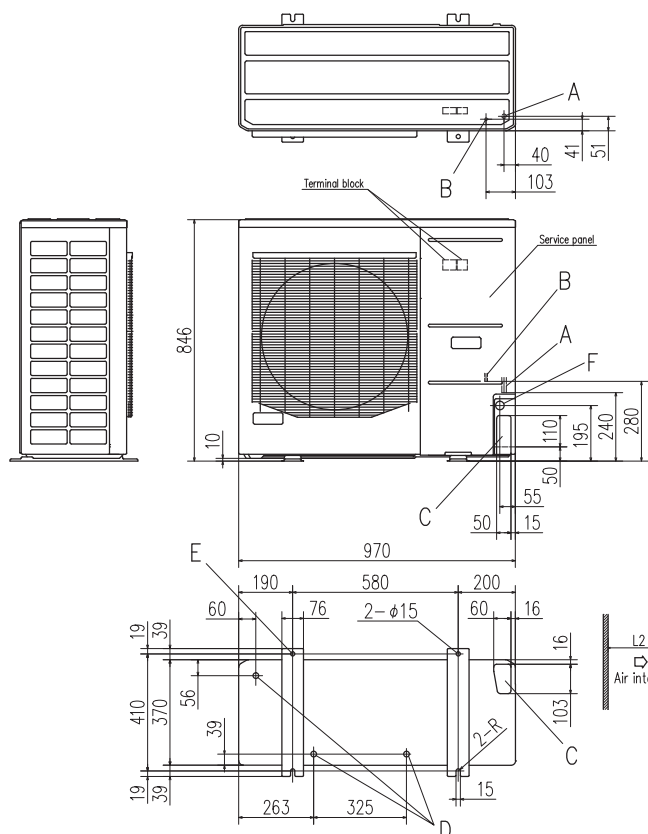


### Minimum installation space

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

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

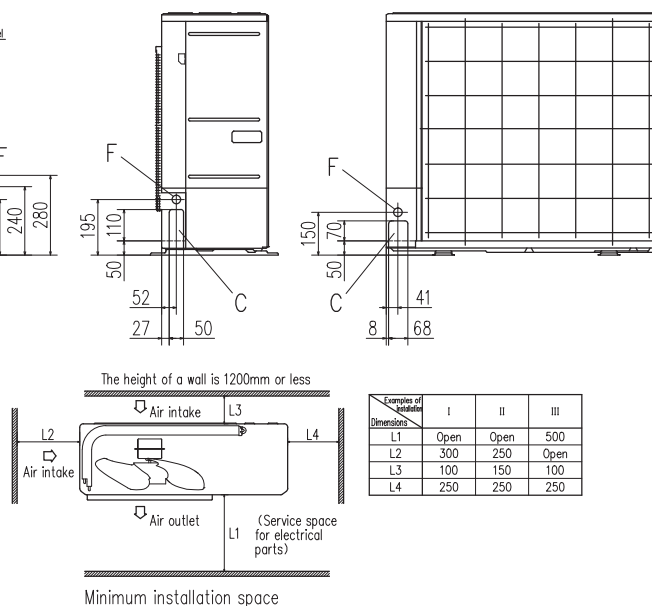
## FDC100VNP



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

## Notes

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



Minimum installation space

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

# Control Systems

## Remote Control line up

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

### Wired remote control

option

## RC-EX3A

Intuitive touch controller with Liquid Crystal Display

### User friendly

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

#### Operation mode setting screen



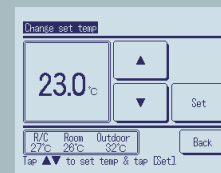
The desired operation mode can be selected by simply tapping this button.



### Easy view

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

#### Setting temperature screen



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

### 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.

### Wired remote control

option

## RC-E5

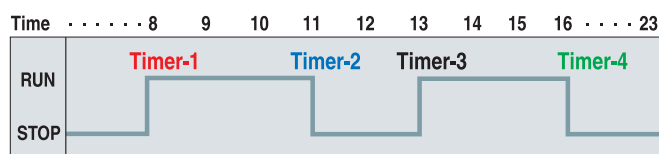


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

### 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)



Designed specially for hotel rooms, the controller's buttons are limited only to the 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 indoor units, by 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-5BW-E2 RCN-T-5BB-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-E3



## RCN-KIT4-E2



## RCN-E-E3



### Thermistor

option

## SC-THB-E3

In case the sensor integrated in the indoor unit or in the remote controller is unable to sense the room temperature correctly, or an individual controller in each room is not required but a temperature sensor is (as when a central control system is in place), install SC-THB-E3 in an adequate location in the room.



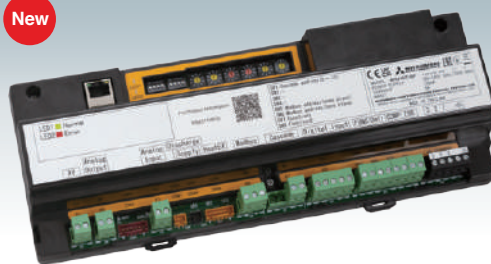
# Air Handling Unit Interface

## AHU-KIT-SP

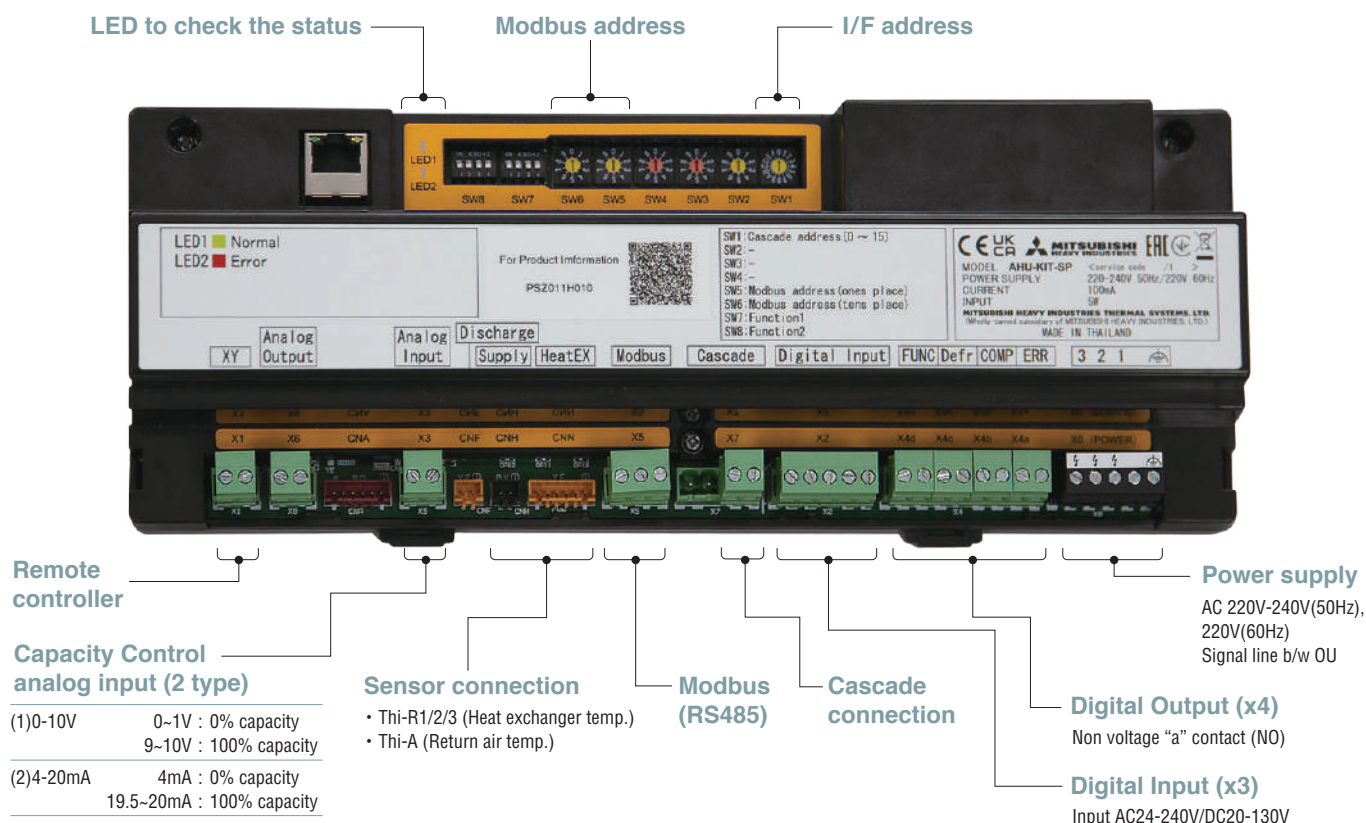
The AHU controller will function as an interface between MHI's PAC outdoor units and locally produced heat exchanger for Air Handling Unit (AHU).

- Compact AHU interface for MHI's Split system
- 0-10V/4-20mA capacity control
- Various external I/O
- Modbus connection
- Cascade control
- Set temperature control

New



### Main components



### Main functions

Model		AHU-KIT-SP
Size		W290 x H109.5x D57mm
External Input	Capacity control	○ 0-10V DC, 4-20mA(0-100%)
	Cooling / Heating	○
	Operation On/Off	○
	Emergency stop	○
External Output	Comp On/Off	○
	Run/Stop	○
	Defrost On/Off	○
	Error	○
Modbus (RS-485)		○
Cascade connection		○ Max 16
Standard		EN60335-1

### Compatibility PAC & RAC outdoor unit will be in scope.

Capacity	R32	R410A
Small	SRC40/50/60ZSX-W1,W2,WA	SRC40/50/60ZSX-S,SA
	FDC71VNX-W	FDC71VNX
Medium	FDC100/125/140VNA-W	FDC100/125/140VNA
	FDC100/125/140VSA-W	FDC100/125/140VSA
	FDC100/125/140VNX-W	FDC100/125/140VNX
	FDC100/125/140VSX-W	FDC100/125/140VSX
Large	FDC200/250/280VSA-W	FDC200/250VSA

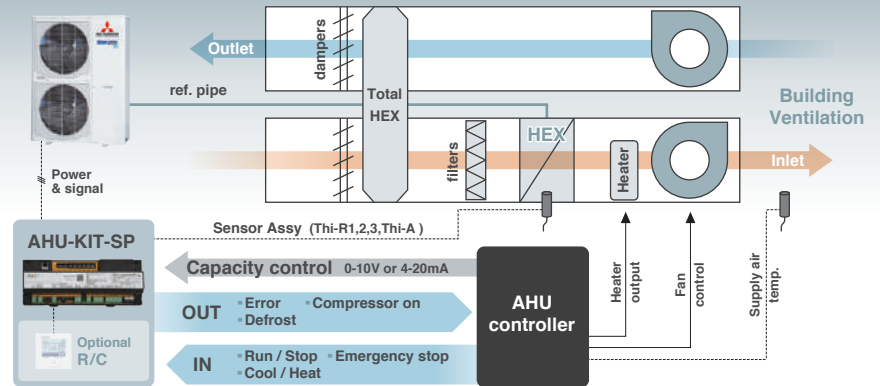


## System Examples &amp; Advantages

**Ex1. General AHU**

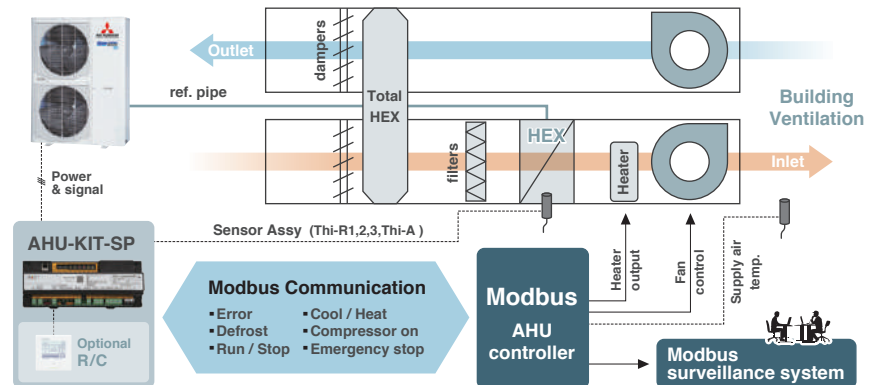
1. 0-10V/4-20mA capacity control
2. Various I/O for better control
3. R/C can be removed

Compatible with market standard AHU controller.  
Provide wide flexibility for AHU solution.

**Ex2. Modbus AHU**

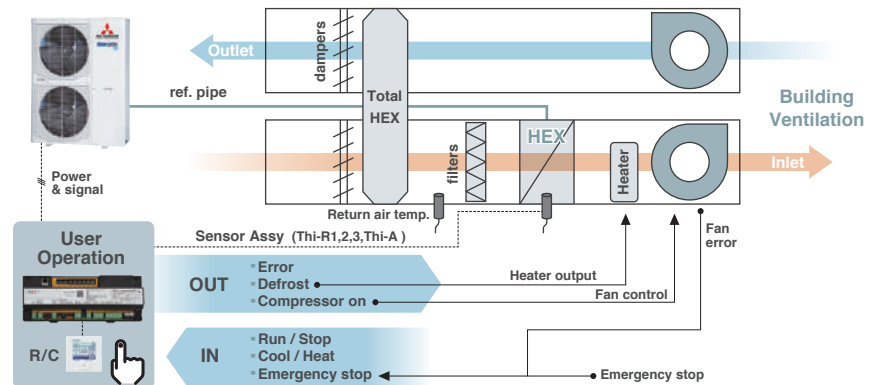
1. Modbus connection
2. Same control as external I/O

BMS connectability without any extra device.

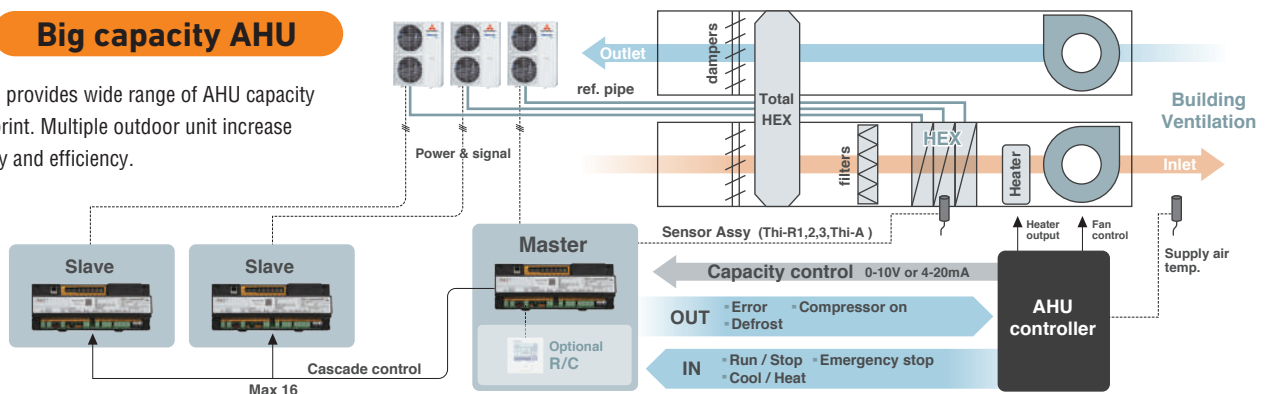
**Ex3. Simple AHU**

1. Remote controller connection
2. Adequate external input/output

Simple stand-alone AHU control by set temperature control from RC.

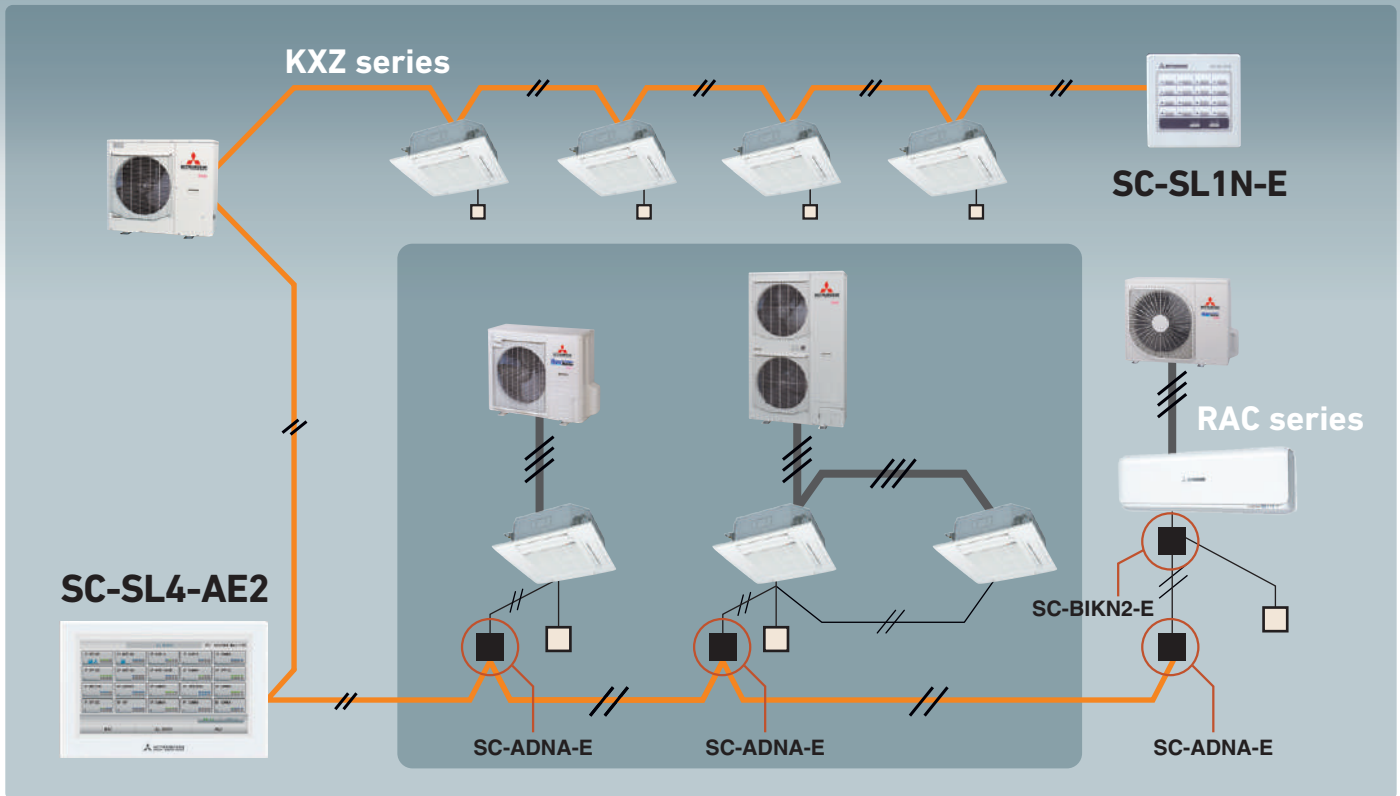
**Ex4. Big capacity AHU**

Cascade control provides wide range of AHU capacity with small footprint. Multiple outdoor unit increase system reliability and efficiency.



# SUPERLINK II

## - Control Systems -

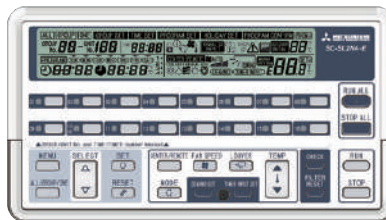


## Central Control



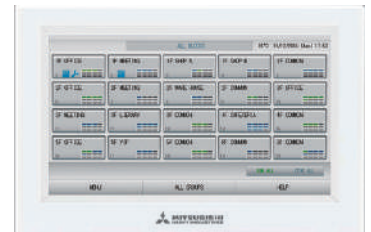
### SC-SL1N-E

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



### SC-SL2NA-E

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



### SC-SL4-AE2/BE2

Easy operation thanks to with a large colour 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.

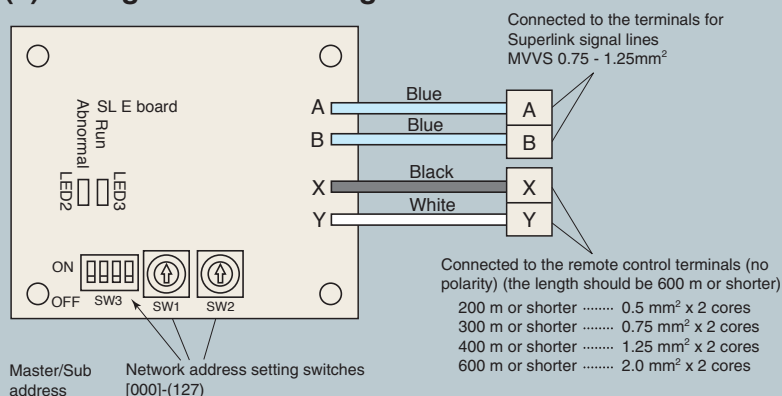
# SUPERLINK E BOARD (SC-ADNA-E)

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).

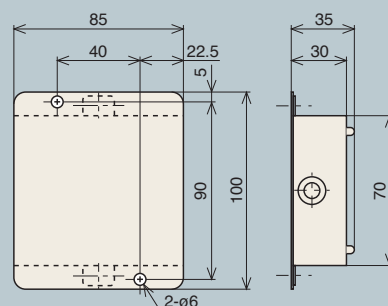
## (1) Functions

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

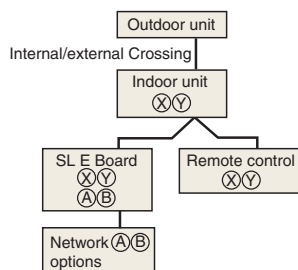
## (2) Wiring connection diagram



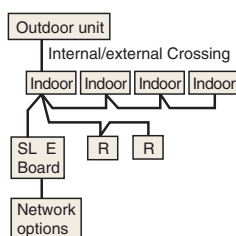
## (3) Metal box dimension (unit:mm)



### Basic Connections

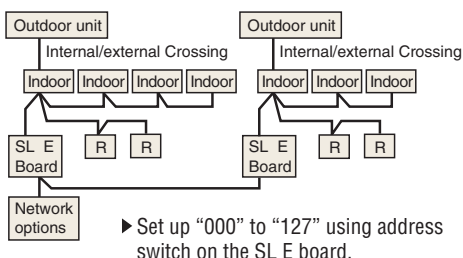


### Plural Controls by Multiple Remote Controls. Mixture of Multiple Units

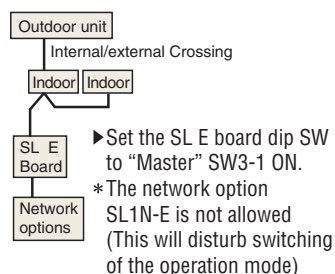


- Transmit the information of plural "Master" units to the network.
- Transmit the abnormalities of the "Slave" units to the network.
- ▶ Setting the plural "Master/Slave" units with the dip SW of the printed circuit board.
- ▶ Setting the "Master/Slave" remote controls with the dip SW of the remote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

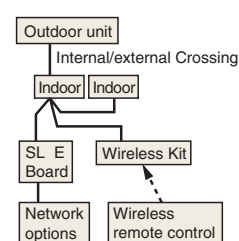
### Plural Controls by Multiple Remote Controls. Mixture of Multiple Units



### Without Remote Control

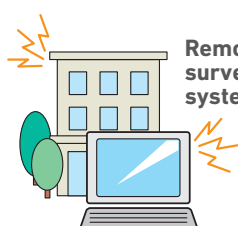


### Wireless Kit

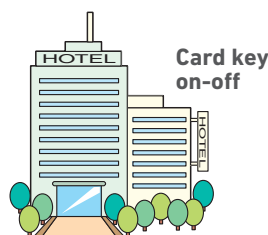


## External switch connection CNT, CNTA

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.



Remote surveillance system



Card key on-off



Indoor unit		FDT50VHx2	FDT50VHx2	FDT71VH	FDT100VH	FDT100VH	FDT71VH	FDT100VH	FDT100VH
Outdoor unit		FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER		6.89	6.89	6.34	7.10	7.08	6.14	6.78	6.78
SCOP (Average climate)		4.47	4.47	4.38	4.56	4.53	4.27	4.12	4.53
Pdesign (cooling/heating (@-10°C))		kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/6.0	10.0/6.4	7.1/5.7	9.0/8.1
Annual electricity consumption (cooling/heating)		kWh/a	508/2665	508/2665	393/1822	444/1842	495/1977	405/1867	465/2754
Refrigerant		GWP	R410A/2088		R32/675		R410A/2088		
			charge kg/CO <sub>2</sub> e		1.30/0.878		1.70/1.148		1.6/3.341
Designated heating season			Average						

Indoor unit		FDT40VH	FDT50VH	FDT60VH	FDT40VHx2	FDT50VHx2	FDT50VHx2	FDT40VH	FDT50VH	
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W2	SRC60ZSX-W1	FDC71VNX-W	FDC100VNX-W	FDC100VNX-W	SRC40ZSX-S	SRC50ZSX-S	
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	
SEER		6.94	6.52	6.45	6.70	6.58	6.58	6.93	6.49	
SCOP (Average climate)		4.37	4.30	4.10	4.40	4.16	4.16	4.37	4.30	
Pdesign (cooling/heating (@-10°C))		kW	4.0/4.0	5.0/4.3	5.6/5.1	7.1/6.0	10.0/11.2	10.0/11.2	4.0/4.0	5.0/4.3
Annual electricity consumption (cooling/heating)		kWh/a	202/1283	269/1401	304/1744	371/1911	532/3772	532/3772	202/1281	270/1402
Refrigerant		GWP charge	R32/675					R410A/2088		
			1.30/0.878			2.75/1.86		4.0/2.7		1.5/3.132
Designated heating season		Average								

Indoor unit			FDT60VH	FDT40VHx2	FDT50VHx2	FDT50VHx2	FDT50VHx2	FDT50VHx2	FDT50VHx2	
Outdoor unit			SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA-W	FDC100VSA-W	FDC100VNA	FDC100VSA
Energy class (cooling/heating)			A++/A+	A/A+	A/A	A/A	A++/A+	A++/A+	A+/A+	A+/A+
SEER			6.39	5.50	5.56	5.56	6.17	6.17	6.00	6.00
SCOP (Average climate)			4.09	4.05	3.87	3.87	4.38	4.38	4.38	4.38
Pdesign (cooling/heating (@-10°C))		kW	5.6/5.4	7.1/6.0	10.0/10.8	10.0/10.8	10.0/8.5	10.0/8.5	10.0/8.4	10.0/8.4
Annual electricity consumption (cooling/heating)		kWh/a	307/1848	453/2077	630/3910	630/3910	567/2715		584/2682	584/2682
Refrigerant		GWP	R410A/2088				R32/675		R410A/2088	
		charge kg/CO <sub>2</sub> e	1.5/3.132	2.95/6.160	4.5/9.396		3.3/2.228		3.8/7.934	
Designated heating season			Average							

Indoor unit		FDU71VH	FDU100VH	FDU100VH	FDU71VH	FDU100VH	FDU100VH	FDU100VH	FDU100VH
Outdoor unit		FDC71VNX-W	FDC100VNX-W	FDC100VSX-W	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA-W	FDC100VSA-W
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A/A	A/A+	A/A+	A++/A+	A++/A+
SEER		6.89	6.29	6.29	5.24	5.22	5.19	6.11	6.11
SCOP (Average climate)		4.47	4.13	4.13	3.90	4.10	4.10	4.19	4.19
Pdesign (cooling/heating (@-10°C))	kW	7.1/6.0	10.0/11.2	10.0/11.2	7.1/7.0	10.0/13.0	10.0/13.0	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)	kWh/a	361/1878	557/3800	557/3800	475/2516	670/4441	675/4443	574/2843	574/2843
Refrigerant	GWP	R32/675			R410A/2088			R32/675	
	charge kg/CO <sub>2</sub> e	2.75/1.86	4.0/2.7		2.95/6.160	4.5/9.396		3.3/2.228	
Designated heating season		Average							

Indoor unit		FDU100VH	FDU100VH	FDU71VH	FDU100VH	FDU100VH	FDU71VH	FDU100VH	FDU100VH
Outdoor unit		FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)		A++/A+	A++/A+	A+/A+	A++/A+	A++/A+	A+/A+	A++/A	A++/A+
SEER		6.11	6.11	5.86	6.66	6.11	5.73	6.56	6.36
SCOP (Average climate)		4.19	4.19	4.12	4.22	4.13	4.00	3.98	4.13
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/6.0	10.0/6.4	7.1/5.7	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	573/2844	573/2844	425/1937	474/1990	573/2169	434/1997	480/2850	551/2748
Refrigerant	GWP	R410A/2088			R32/675		R410A/2088		
	charge kg/CO <sub>2</sub> e	3.8/7.934			1.3/0.878	1.7/1.148	1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season		Average							

Indoor unit		FDUM40VH	FDUM50VH	FDUM60VH	FDUM71VH	FDUM100VH	FDUM100VH	FDUM40VHx2	FDUM50VHx2
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W2	SRC60ZSX-W1	FDC71VNX-W	FDC100VNX-W	FDC100VSX-W	FDC71VNX-W	FDC100VNX-W
Energy class (cooling/heating)		A++/A	A/A	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A
SEER		6.11	5.82	6.43	6.89	6.29	6.29	6.38	6.36
SCOP (Average climate)		3.81	3.89	4.37	4.45	4.13	4.13	4.15	3.88
Pdesign (cooling/heating (@-10°C))		kW	4.0/3.0	5.0/3.7	5.6/4.7	7.1/6.0	10.0/11.2	10.0/11.2	7.1/6.0
Annual electricity consumption (cooling/heating)		kWh/a	230/1102	301/1332	305/1508	361/1878	557/3800	557/3800	390/2025
Refrigerant		GWP	R32/675						
charge		kg/CO <sub>2</sub> e	1.30/0.878			2.75/1.86		4.0/2.7	
Designated heating season			Average						

Indoor unit		FDUM50VHx2	FDUM40VH	FDUM50VH	FDUM60VH	FDUM71VH	FDUM100VH	FDUM100VH	FDUM40VHx2
Outdoor unit		FDC100VSX-W	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX
Energy class (cooling/heating)		A++/A	A+/A+	A+/A+	A++/A+	A/A	A/A+	A/A+	A+/A+
SEER		6.36	6.01	5.68	6.42	5.24	5.22	5.19	5.61
SCOP (Average climate)		3.88	4.15	4.36	4.37	3.90	4.10	4.10	4.05
Pdesign (cooling/heating (@-10°C))	kW	10.0/10.0	4.0/3.5	5.0/4.3	5.6/5.4	7.1/7.0	10.0/13.0	10.0/13.0	7.1/7.0
Annual electricity consumption (cooling/heating)	kWh/a	550/3605	233/1182	309/1380	306/1731	475/2516	670/4441	675/4444	444/2419
Refrigerant	GWP	R32/675	R410A/2088						
	charge kg/CO <sub>2</sub> e	4.0/2.7	1.5/3.132		2.95/6.160		4.5/9.396		2.95/6.160
Designated heating season		Average							



# Energy Efficient and Environmentally Conscious

Indoor unit		FUDM50VHx2	FUDM50VHx2	FUDM100VH	FUDM100VH	FUDM50VHx2	FUDM50VHx2	FUDM100VH	FUDM100VH
Outdoor unit		FDC100VNX	FDC100Vsx	FDC100VNA-W	FDC100VSA-W	FDC100VNA-W	FDC100VSA-W	FDC100VNA	FDC100VSA
Energy class (cooling/heating)		A/A	A/A	A++/A+	A++/A+	A+/A+	A+/A+	A++/A+	A++/A+
SEER		5.14	5.11	6.11	6.11	5.82	5.82	6.11	6.11
SCOP (Average climate)		3.88	3.87	4.19	4.19	4.00	4.00	4.19	4.19
Pdesign (cooling/heating (@-10°C))		kW	10.0/10.0	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)		kWh/a	681/3606	685/3618	574/2843	574/2843	602/2974	602/2974	573/2844
Refrigerant		GWP	R410A/2088			R32/675			R410A/2088
		charge kg/TCO <sub>2</sub> e	4.5/9.396			3.3/2.228			3.8/7.934
Designated heating season		Average							

Indoor unit		FUDM50VHx2	FUDM50VHx2	FUDM71VH	FUDM100VH	FUDM100VH	FUDM71VH	FUDM100VH	FUDM100VH
Outdoor unit		FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)		A/A	A/A	A+/A+	A++/A+	A++/A+	A+/A+	A++/A	A++/A+
SEER		5.50	5.50	5.86	6.65	6.11	5.73	6.56	6.36
SCOP (Average climate)		3.94	3.94	4.12	4.22	4.13	4.00	3.98	4.13
Pdesign (cooling/heating (@-10°C))		kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/6.0	10.0/6.4	7.1/5.7	9.0/8.1
Annual electricity consumption (cooling/heating)		kWh/a	637/3024	637/3024	425/1937	474/1990	573/2169	434/1997	480/2850
Refrigerant		GWP	R410A/2088		R32/675		R410A/2088		
		charge kg/TCO <sub>2</sub> e	3.8/7.934		1.3/0.878	1.7/1.148	1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season			Average						

Indoor unit			SRK71ZR-W	SRK100ZR-W	SRK100ZR-W	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK100ZR-W	
Outdoor unit			FDC71VNX-W	FDC100VNX-W	FDC100VSX-W	FDC100VNX-W	FDC100VSX-W	FDC100VNX	FDC100VSX	FDC100VNA-W	
Energy class (cooling/heating)			A++/A+	A++/A	A++/A	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	
SEER			6.80	6.54	6.54	7.66	7.66	6.11	6.11	6.13	
SCOP (Average climate)			4.56	4.01	4.01	4.25	4.25	4.16	4.16	4.33	
Pdesign (cooling/heating (@-10°C))		kW	7.1/5.8	10.0/10.5	10.0/10.5	10.0/11.2	10.0/11.2	10.0/10.4	10.0/10.4	10.0/8.5	
Annual electricity consumption (cooling/heating)			kWh/a	366/1782	535/3671	535/3671	457/3691	457/3691	574/3504	574/3504	571/2746
Refrigerant		GWP	R32/675					R410A/2088		R32/675	
		charge	kg/TCO <sub>2</sub> e	2.75/1.86	4.0/2.7			4.5/9.396		3.3/2.228	
Designated heating season			Average								

Indoor unit			SRK100ZR-W	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK100ZR-W	SRK100ZR-W	SRK71ZR-W	SRK100ZR-W	SRK100ZR-W
Outdoor unit			FDC100VSA-W	FDC100VNA-W	FDC100VSA-W	FDC100VNA	FDC100VSA	FDC71VNP-W	FDC100VNP-W	FDC100VNP
Energy class (cooling/heating)			A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER			6.13	7.05	7.05	6.26	6.26	6.75	6.11	6.60
SCOP (Average climate)			4.33	4.47	4.47	4.33	4.33	4.55	4.14	4.40
Pdesign (cooling/heating (@-10°C))		kW	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	7.10/5.70	9.6/6.0	10.0/7.2
Annual electricity consumption (cooling/heating)		kWh/a	571/2746	497/2661	497/2661	560/2750	560/2750	369/1756	551/2028	531/2289
Refrigerant		GWP	R32/675			R410A/2088		R32/675		R410A/2088
		charge kg/TCO <sub>2</sub> e	3.3/2.228			3.8/7.934		1.3/0.878	1.7/1.148	2.55/5.324
Designated heating season			Average							

Indoor unit		FDE40VH	FDE50VH	FDE60VH	FDE71VH	FDE100VH	FDE100VH	FDE40VHx2	FDE50VHx2
Outdoor unit		SRC40ZSX-W1	SRC50ZSX-W2	SRC60ZSX-W1	FDC71VNX-W	FDC100VNX-W	FDC100VSX-W	FDC71VNX-W	FDC100VNX-W
Energy class (cooling/heating)		A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER		6.46	6.15	6.72	6.58	7.00	7.00	6.48	6.76
SCOP (Average climate)		4.02	4.07	4.41	4.45	4.24	4.24	4.49	4.00
Pdesign (cooling/heating (@-10°C))	kW	4.0/3.0	5.0/3.8	5.6/4.5	7.1/6.0	10.0/11.2	10.0/11.2	7.1/6.0	10.0/9.8
Annual electricity consumption (cooling/heating)	kWh/a	217/1045	285/1307	292/1430	378/1889	501/3700	501/3700	384/1870	518/3434
Refrigerant	GWP	R32/675							
	charge	kg/TCO <sub>2</sub> e	1.30/0.878		2.75/1.86		4.0/2.7		2.75/1.86
Designated heating season		Average							

Indoor unit		FDE50VHx2	FDE40VH	FDE50VH	FDE60VH	FDE71VH	FDE100VH	FDE100VH	FDE40VHx2
Outdoor unit		FDC100VSX-W	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX
Energy class (cooling/heating)		A++/A+	A++/A	A++/A	A++/A+	B/A+	A+/A+	A+/A+	A/A+
SEER		6.76	6.46	6.10	6.72	4.87	5.89	5.84	5.26
SCOP (Average climate)		4.00	3.93	3.92	4.08	4.00	4.18	4.17	4.09
Pdesign (cooling/heating (@-10°C))		kW	10.0/9.8	4.0/3.0	5.0/3.8	5.6/4.3	7.1/6.0	10.0/11.2	7.1/6.0
Annual electricity consumption (cooling/heating)		kWh/a	518/3434	217/1070	288/1359	292/1476	511/2102	595/3756	599/3762
Refrigerant		GWP	R32/675		R410A/2088				
		charge kg/TCO <sub>2</sub> e	4.0/2.7		1.5/3.132		2.95/6.160		4.5/9.396
Designated heating season			Average						

Indoor unit		FDE50VHx2	FDE50VHx2	FDE100VH	FDE100VH	FDE50VHx2	FDE50VHx2	FDE100VH	FDE100VH
Outdoor unit		FDC100VNX	FDC100VSX	FDC100VNA-W	FDC100VSA-W	FDC100VNA-W	FDC100VSA-W	FDC100VNA	FDC100VSA
Energy class (cooling/heating)		A/A	A/A	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER		5.53	5.49	6.67	6.67	6.16	6.16	6.35	6.35
SCOP (Average climate)		3.94	3.94	4.31	4.31	4.10	4.10	4.31	4.31
Pdesign (cooling/heating (@-10°C))		kW	10.0/10.8	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)		kWh/a	634/3840	638/3841	525/2764	525/2764	569/2906	569/2906	552/2763
Refrigerant		GWP	R410A/2088			R32/675			R410A/2088
		charge	kg/TCO <sub>2</sub> e			3.30/2.228			3.8/7.934
Designated heating season			Average						

Indoor unit		FDE50VHx2	FDE50VHx2	FDE71VH	FDE100VH	FDE100VH	FDE71VH	FDE100VH	FDE100VH
Outdoor unit		FDC100VNA	FDC100VSA	FDC71VNP-W	FDC90VNP-W	FDC100VNP-W	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)		A+/A+	A+/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER		5.71	5.71	6.44	6.78	6.63	6.35	6.63	6.73
SCOP (Average climate)		4.10	4.10	4.32	4.46	4.24	4.22	4.25	4.44
Pdesign (cooling/heating (@-10°C))	kW	10.0/8.5	10.0/8.5	7.10/5.70	9.0/5.8	10.0/6.0	7.1/5.8	9.0/8.2	10.0/8.1
Annual electricity consumption (cooling/heating)	kWh/a	613/2905	613/2905	386/1849	465/1822	529/1984	392/1927	475/2703	521/2555
Refrigerant	GWP	R410A/2088			R32/675			R410A/2088	
	charge kgTCO <sub>2</sub> e	3.8/7.934			1.30/0.878	1.70/1.148		1.6/3.341	2.1/4.385
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
Annual electricity consumption (cooling/heating)		kWh/a	518/2464	673/4792	678/4795	614/2978	614/2978	474/1972	554/2825
Refrigerant		GWP	R410A/2088						
		charge kg/TCO <sub>2</sub> e	2.95/6.160	4.5/9.396			3.8/7.934		1.6/3.341
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	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH	FDT125VH	FDT140VH
Outdoor unit	FDC125VNX-W	FDC140VNX-W	FDC125VSX-W	FDC140VSX-W	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA-W	FDC140VNA-W	FDC125VSA-W	FDC140VSA-W
SEER	7.64	7.20	7.64	7.20	6.18	5.97	6.18	6.11	6.53	6.17	6.53	6.17
SCOP (Average climate)	4.44	4.35	4.26	4.14	4.08	4.05	4.03	3.99	4.38	4.42	4.38	4.42

Indoor unit	FDT125VH	FDT140VH	FDT125VH	FDT140VH
Outdoor unit	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	6.52	6.16	6.52	6.16
SCOP (Average climate)	4.38	4.28	4.38	4.28

Indoor unit	FDU125VH	FDU140VH	FDU125VH	FDU140VH	FDU125VH	FDU140VH	FDU125VH	FDU140VH	FDU125VH	FDU140VH	FDU125VH	FDU140VH
Outdoor unit	FDC125VNX-W	FDC140VNX-W	FDC125VSX-W	FDC140VSX-W	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA-W	FDC140VNA-W	FDC125VSA-W	FDC140VSA-W
SEER	6.10	5.79	6.10	5.79	5.34	5.22	5.49	5.36	5.57	5.30	5.57	5.30
SCOP (Average climate)	4.06	3.99	3.92	3.88	3.87	3.85	3.91	3.88	4.13	4.01	4.13	4.01

Indoor unit	FDU200VH	FDU250VH	FDU280VH	FDU125VH	FDU140VH	FDU125VH	FDU140VH	FDU200VH	FDU250VH
Outdoor unit	FDC200VSA-W	FDC250VSA-W	FDC280VSA-W	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA
SEER	5.10	4.88	4.92	5.26	5.08	5.26	5.08	5.06	4.82
SCOP (Average climate)	3.55	3.54	3.70	4.13	4.01	4.13	4.01	3.52	3.51

Indoor unit	FDUM125VH	FDUM140VH	FDUM125VH	FDUM140VH	FDUM125VH	FDUM140VH	FDUM125VH	FDUM140VH	FDUM125VH	FDUM140VH	FDUM125VH	FDUM140VH
Outdoor unit	FDC125VNX-W	FDC140VNX-W	FDC125VSX-W	FDC140VSX-W	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA-W	FDC140VNA-W	FDC125VSA-W	FDC140VSA-W
SEER	6.10	5.79	6.10	5.79	5.34	5.22	5.49	5.36	5.57	5.30	5.57	5.30
SCOP (Average climate)	4.06	3.99	3.92	3.88	3.87	3.85	3.91	3.88	4.13	4.01	4.13	4.01

Indoor unit	FDUM125VH	FDUM140VH	FDUM125VH	FDUM140VH
Outdoor unit	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	5.26	5.08	5.26	5.08
SCOP (Average climate)	4.13	4.01	4.13	4.01

Indoor unit	FDE125VH	FDE140VH	FDE125VH	FDE140VH	FDE125VH	FDE140VH	FDE125VH	FDE140VH	FDE125VH	FDE140VH	FDE125VH	FDE140VH
Outdoor unit	FDC125VNX-W	FDC140VNX-W	FDC125VSX-W	FDC140VSX-W	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA-W	FDC140VNA-W	FDC125VSA-W	FDC140VSA-W
SEER	6.53	6.29	6.53	6.29	5.56	5.41	5.74	5.56	6.03	5.76	6.03	5.76
SCOP (Average climate)	4.20	4.17	4.02	3.96	3.71	3.66	3.66	3.62	4.30	4.24	4.30	4.24

Indoor unit	FDE125VH	FDE140VH	FDE125VH	FDE140VH
Outdoor unit	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA
SEER	6.03	5.76	6.03	5.76
SCOP (Average climate)	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

## 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. Heating performance is reduced as the temperature drops, 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 catalogue 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 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 continued to use, 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, a maintenance contract by a specialist is recommended.

## Safety Precautions

### Air conditioner usage target

The air conditioner described in this catalogue 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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