

# High Performance Air-Conditioning 2016



CE

50/60Hz

16P01E

## FD series

Inverter Packaged Air-Conditioners

# Hyper Inverter

Our new advanced technology has realized high efficiency, strong heating and long piping.

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

## Line up

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



**SRC40ZMX-S (1.5HP)**  
**SRC50ZMX-S (2.0HP)**  
**SRC60ZMX-S (2.5HP)**



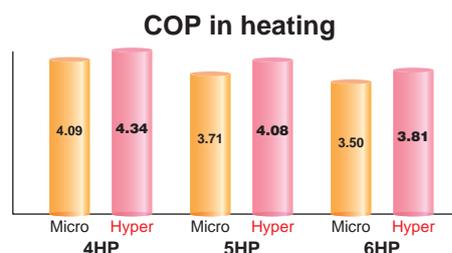
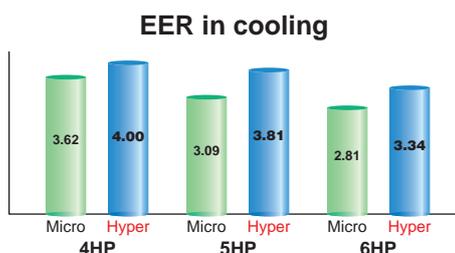
**FDC71VNX (3.0HP)**



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

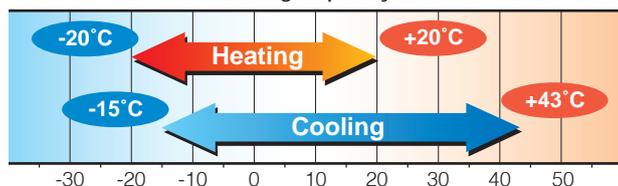
## High efficiency (comparison of FDT series)

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



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

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

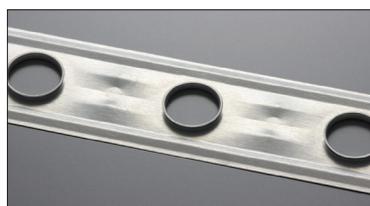
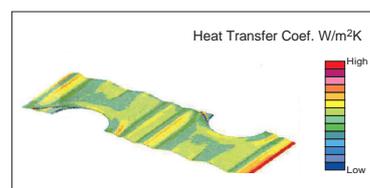


### Max. heating capacity (kW)

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

## High efficiency (All outdoor units)

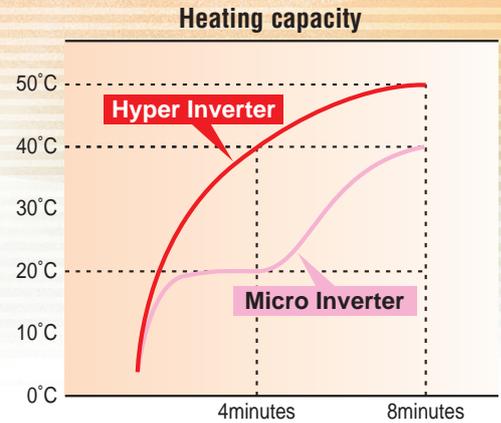
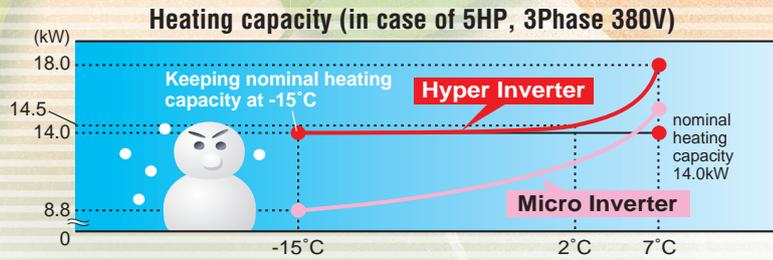
Thanks to changing fin configuration from flat sheet to M shape fin. This high dimensional structure provides optimum balance of heat transfer and airflow.



## Leading powerful heating capacity in the industry

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

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



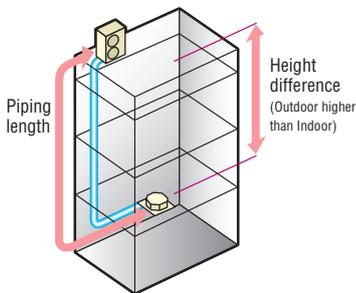
model name	nominal heating capacity (kW at outdoor temperature of 7°C)	heating capacity at outdoor temperature of -15°C
FDC100VSX(4HP, 3Phase 380V)	11.2kW	11.2kW
FDC125VSX(5HP, 3Phase 380V)	14.0kW	14.0kW
FDC140VSX(6HP, 3Phase 380V)	16.0kW	16.0kW

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

## Installation workability

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

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



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

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

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

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

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

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

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

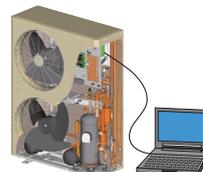
Due to application of blue coated fins (KS101) for the heat exchanger of new outdoor unit, corrosion resistance has been improved compared to current models.



**Blue Fin**

### Point 4 Monitoring Function (All series)

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



### Point 5 Base heater kit (option)

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

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



# Micro Inverter

## Line up

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



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



**FDC200VSA (8.0HP)**

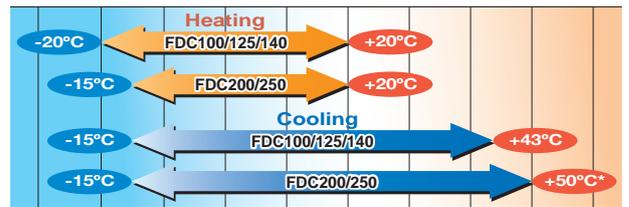


**FDC250VSA (10.0HP)**

## Tropical Usage Mode

### Wide range of operation

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



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

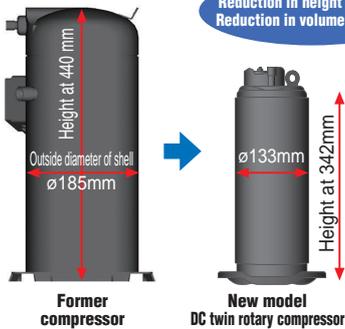
### 2 Layer Construction (Micro Inverter 10HP)

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



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

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



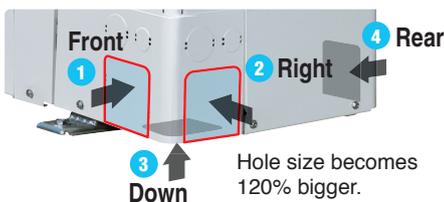
Reduction in height by 22.3%  
 Reduction in volume by 44.1%

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



### Serviceability (Micro Inverter 10HP)

#### ● Improved freedom of piping layout

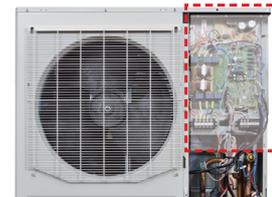


Hole size becomes 120% bigger.

#### ● Four handles

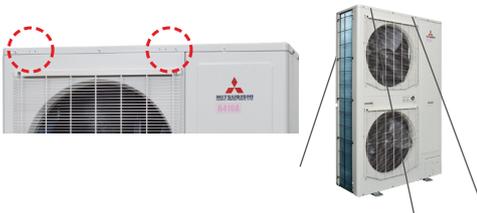


#### ● A transparent rain cover



Attached as a standard for easy maintenance.

#### ● Wire insertion holes for fall prevention



Located at the same level for easy transport and transfer.

#### ● Fixing screws to service panel

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

# Standard Inverter

## Line up

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



FDC71VNP (3.0HP)



FDC90VNP (3.5HP)



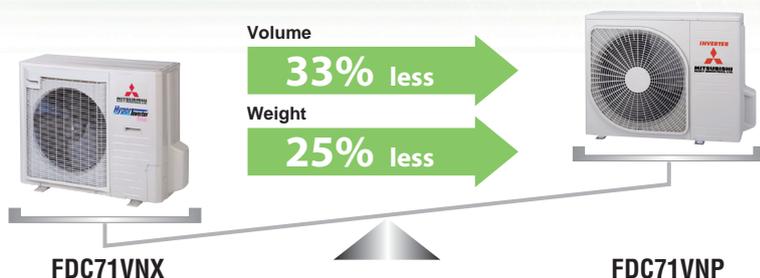
FDC100VNP (4.0HP)

Blue Fin

NEW

Blue Fin

## Compact Design of outdoor units



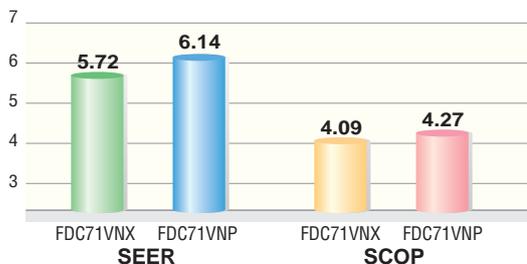
All outdoor units (Hyper, Micro, Standard)

Fits into elevators



## High SEER & SCOP (in case of indoor unit: FDT71VF1)

Though the nominal efficiency is lower than that of FDC71VNX (Hyper inverter), higher SEER & SCOP are achieved by optimizing control.



Easy installation



## CONTENTS

OUTDOOR UNITS	2~5
INDOOR UNITS	10~44
BENEFITS SUMMARY	45
CONTROL SYSTEMS	46~49
OUTDOOR UNIT DIMENSIONS	50~53
ENERGY LABEL (FOR EU / EEA AREA ONLY)	54 • 55

Type		Hyper Inverter						
		HP	1.5	2.0	2.5	3.0	4.0	
		kW	4.0	5.0	6.0	7.1	10.0	
		Btu/h	13,600	17,100	20,500	24,200	34,100	
		kcal/h	3,440	4,300	5,160	6,100	8,600	
CEILING CASSETTE	<b>4way</b> <b>FDT</b> 	<b>P.10</b> Set	1Phase	<b>FDT40ZMXVF</b>	<b>FDT50ZMXVF</b>	<b>FDT60ZMXVF</b>	<b>FDT71VNXVF1</b>	<b>FDT100VNXVF2</b>
			3Phase					<b>FDT100VSXVF2</b>
		Indoor unit	FDT40VF	FDT50VF	FDT60VF	FDT71VF1	FDT100VF2	
	Outdoor unit	1Phase	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX	
		3Phase					FDC100VSX	
	<b>4way compact (600 x 600mm)</b> <b>FDTC</b> 	<b>P.16</b> Set	1Phase	<b>FDTC40ZMXVF</b>	<b>FDTC50ZMXVF</b>	<b>FDTC60ZMXVF</b>		
Indoor unit			FDTC40VF	FDTC50VF	FDTC60VF			
Outdoor unit		1Phase	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S			
	3Phase							
DUCT CONNECTED	<b>High Static pressure</b> <b>FDU</b> 	<b>P.20</b> Set	1Phase				<b>FDU71VNXVF1</b>	<b>FDU100VNXVF2</b>
			3Phase					<b>FDU100VSXVF2</b>
		Indoor unit				FDU71VF1	FDU100VF2	
	Outdoor unit	1Phase				FDC71VNX	FDC100VNX	
		3Phase					FDC100VSX	
	<b>Low/Middle Static pressure</b> <b>FDUM</b> 	<b>P.25</b> Set	1Phase	<b>FDUM40ZMXVF</b>	<b>FDUM50ZMXVF</b>	<b>FDUM60ZMXVF</b>	<b>FDUM71VNXVF1</b>	<b>FDUM100VNXVF2</b>
3Phase							<b>FDUM100VSXVF2</b>	
Indoor unit		FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2		
Outdoor unit	1Phase	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX		
	3Phase					FDC100VSX		
CEILING SUSPENDED	<b>FDE</b> 	<b>P.32</b> Set	1Phase	<b>FDE40ZMXVG</b>	<b>FDE50ZMXVG</b>	<b>FDE60ZMXVG</b>	<b>FDE71VNXVG</b>	<b>FDE100VNXVG</b>
			3Phase					<b>FDE100VSXVG</b>
		Indoor unit	FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG	
	Outdoor unit	1Phase	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX	
		3Phase					FDC100VSX	
	WALL MOUNTED	<b>SRK</b> 	<b>P.38</b> Set	1Phase				
Indoor unit								
Outdoor unit		1Phase						
FLOOR STANDING	<b>FDF</b> 	<b>P.41</b> Set	1Phase				<b>FDF71VNXVD1</b>	<b>FDF100VNXVD2</b>
			3Phase					<b>FDF100VSXVD2</b>
	Indoor unit				FDF71VD1	FDF100VD2		
	Outdoor unit	1Phase				FDC71VNX	FDC100VNX	
3Phase						FDC100VSX		

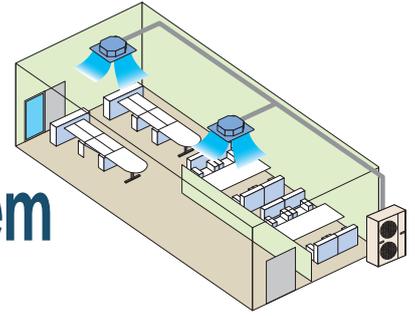
**Capacity Range (Rated Cooling Capacity)**

		<i>Micro Inverter</i>					<i>Standard Inverter</i>		
5.0	6.0	4.0	5.0	6.0	8.0	10.0	3.0	3.5	4.0
12.5	14.0	10.0	12.5	14.0	20.0	24.0	7.1	9.0	10.0
42,700	47,800	34,100	42,700	47,800	68,200	81,300	24,200	30,700	34,100
10,750	12,040	8,600	10,750	12,040	17,200	20,640	6,100	7,740	8,600
<b>FDT125VNXF</b>	<b>FDT140VNXF</b>	<b>FDT100NVF2</b>	<b>FDT125NVF</b>	<b>FDT140NVF</b>			<b>FDT71VNPVF1</b>	<b>FDT90VNPVF2</b>	<b>FDT100VNP1VF2</b>
<b>FDT125VSXF</b>	<b>FDT140VSXF</b>	<b>FDT100VSF2</b>	<b>FDT125VSF</b>	<b>FDT140VSF</b>					
FDT125VF	FDT140VF	FDT100VF2	FDT125VF	FDT140VF			FDT71VF1	FDT100VF2	FDT100VF2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
<b>FDU125VNXF</b>	<b>FDU140VNXF</b>	<b>FDU100NVF2</b>	<b>FDU125NVF</b>	<b>FDU140NVF</b>			<b>FDU71VNPVF1</b>	<b>FDU90VNPVF2</b>	<b>FDU100VNP1VF2</b>
<b>FDU125VSXF</b>	<b>FDU140VSXF</b>	<b>FDU100VSF2</b>	<b>FDU125VSF</b>	<b>FDU140VSF</b>	<b>FDU200VSAVG*</b>	<b>FDU250VSAVG*</b>			
FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF	FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS	FDC200VSA	FDC250VSA			
<b>FDUM125VNXF</b>	<b>FDUM140VNXF</b>	<b>FDUM100NVF2</b>	<b>FDUM125NVF</b>	<b>FDUM140NVF</b>			<b>FDUM71VNPVF1</b>	<b>FDUM90VNPVF2</b>	<b>FDUM100VNP1VF2</b>
<b>FDUM125VSXF</b>	<b>FDUM140VSXF</b>	<b>FDUM100VSF2</b>	<b>FDUM125VSF</b>	<b>FDUM140VSF</b>					
FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF			FDUM71VF1	FDUM100VF2	FDUM100VF2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
<b>FDE125VNFXVG</b>	<b>FDE140VNFXVG</b>	<b>FDE100VNVG</b>	<b>FDE125VNVG</b>	<b>FDE140VNVG</b>			<b>FDE71VNPVG</b>	<b>FDE90VNPVG</b>	<b>FDE100VNP1VG</b>
<b>FDE125VSXVG</b>	<b>FDE140VSXVG</b>	<b>FDE100VSVG</b>	<b>FDE125VSVG</b>	<b>FDE140VSVG</b>					
FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG			FDE71VG	FDE100VG	FDE100VG
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					
							<b>SRK71VNPZM</b>		<b>SRK100VNP1ZR</b>
							SRK71ZM-S		SRK100ZR-S
							FDC71VNP		FDC100VNP
<b>PDF125VNFXVD</b>	<b>PDF140VNFXVD</b>	<b>PDF100VNV2</b>	<b>PDF125VNV2</b>	<b>PDF140VNV2</b>			<b>PDF71VNPVD1</b>	<b>PDF90VNPVD2</b>	<b>PDF100VNP1VD2</b>
<b>PDF125VSXVD</b>	<b>PDF140VSXVD</b>	<b>PDF100VSD2</b>	<b>PDF125VSD2</b>	<b>PDF140VSD2</b>					
PDF125VD	PDF140VD	PDF100VD2	PDF125VD	PDF140VD			PDF71VD1	PDF100VD2	PDF100VD2
FDC125VNX	FDC140VNX	FDC100VN	FDC125VN	FDC140VN			FDC71VNP	FDC90VNP	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VS	FDC125VS	FDC140VS					

\* Tropical Usage Mode

# MULTI SYSTEM

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



## Twin / Triple / Double Twin Multi System

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

### Applicable indoor units

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

### Combination of indoor units

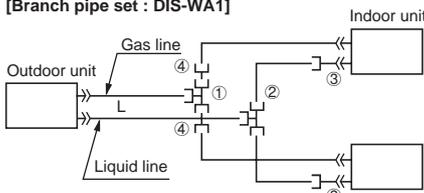
Outdoor Unit	Hyper Inverter				Micro Inverter				
	FDC71VNX	FDC100VNX FDC100VSX	FDC125VNX FDC125VSX	FDC140VNX FDC140VSX	FDC100VN FDC100VS	FDC125VN FDC125VS	FDC140VN FDC140VS	FDC200VSA	FDC250VSA
<b>Twin</b>	40 + 40	50 + 50	60 + 60	71 + 71	50 + 50	60 + 60	71 + 71	100 + 100	125 + 125
<b>Triple</b>				50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

## Decision of piping specification

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

### Twin type

Models FDC71VNX, FDC100~140VN/VS  
[Branch pipe set : DIS-WA1]



(Example)

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

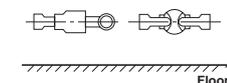
Notes (1) When 40-60 models of indoor units are applied to this combination, the reducer ③ supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size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

Chart of shapes of branch piping parts (DIS-WA1)	Gas pipe	Symbol	Liquid pipe	Symbol	Reducer	Symbol	Reducer	Symbol
		ID15.88, ID11.88, ID9.52, ID15.88, 24, 8, 110	①		ID9.52, ID9.52, ID9.52, ID9.52, 8, 210, 110, 105	②		ID9.52, ID6.35, ø6.35 flared nut, 105, 2 piece
							OD15.88, ID12.7, 80, 2 piece	④

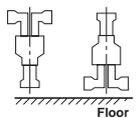
Notes (1) Symbol ① to ④ in the drawing shows the symbols of branch piping parts in the chart respectively.  
(2) Branch piping should always be arranged to have level or perpendicular position.

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

### 2-Way Branch

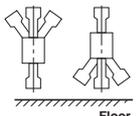
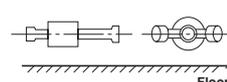


Mount sections level with the floor.



Mount sections perpendicular to the floor.

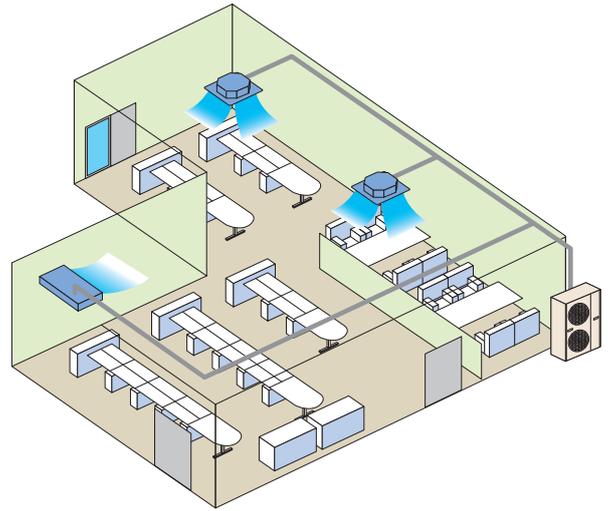
### 3-Way Branch



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

# V Multi System

Different models and capacities can be selected.



## Applicable indoor units

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

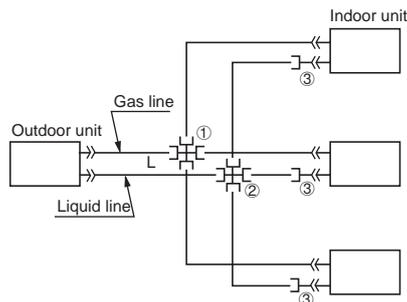
## Combination of indoor units

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

### Triple type

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

Model FDC140VN/VS  
[Branch pipe set : DIS-TA1]



(Example)

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

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

Chart of shapes of branch piping parts (DIS-TA1)	Gas pipe		Liquid pipe		Reducer	
	Symbol	Symbol	Symbol	Symbol	Symbol	Symbol
	①		②		③	

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

# CEILING CASSETTE -4way- FDT



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

## Remote control (Option)

### Wired



RC-EX1A



RC-E5



RCH-E3



RCN-T-36W-E

### Wireless

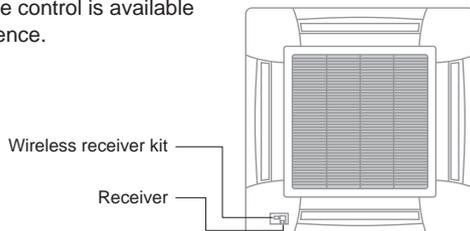
## Point 1 Individual flap control system

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



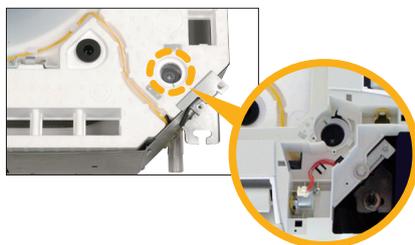
## Point 3 Wireless remote control

A wireless remote control is available for your convenience.



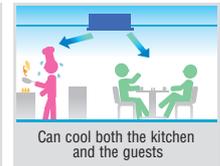
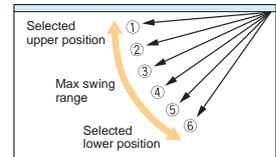
## Point 5 Easy checking of drain pan

Easy checking of drain pan condition is available by removing corner lid only. Due to new design changing fan motor is available without removing a panel.



## Point 2 Flap control

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



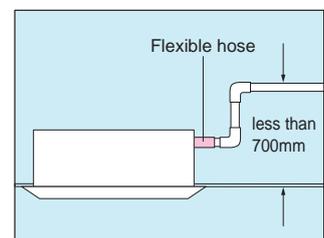
## Point 4 Arrangement of installation balance of indoor unit

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



## Point 6 700mm Drain Pump

Drain can be discharged upwards by 700mm from the ceiling surface. It allows a piping layout with a high degree of freedom. Depending on the installation location and 260mm flexible hose as a standard equipment supports easy workability.



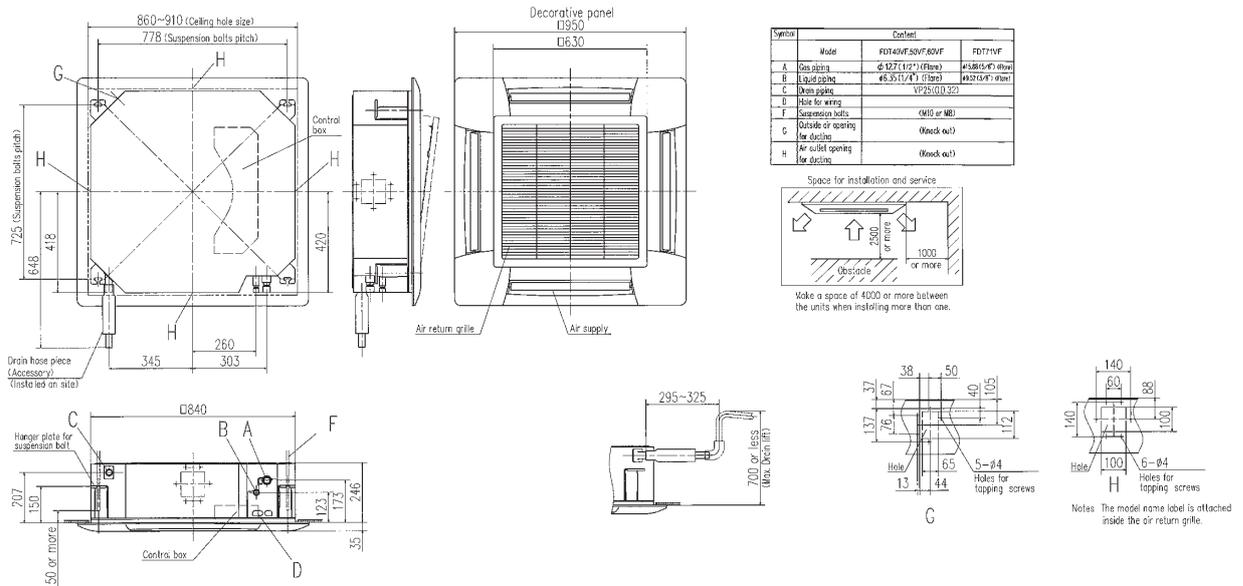
## OUTDOOR UNIT

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

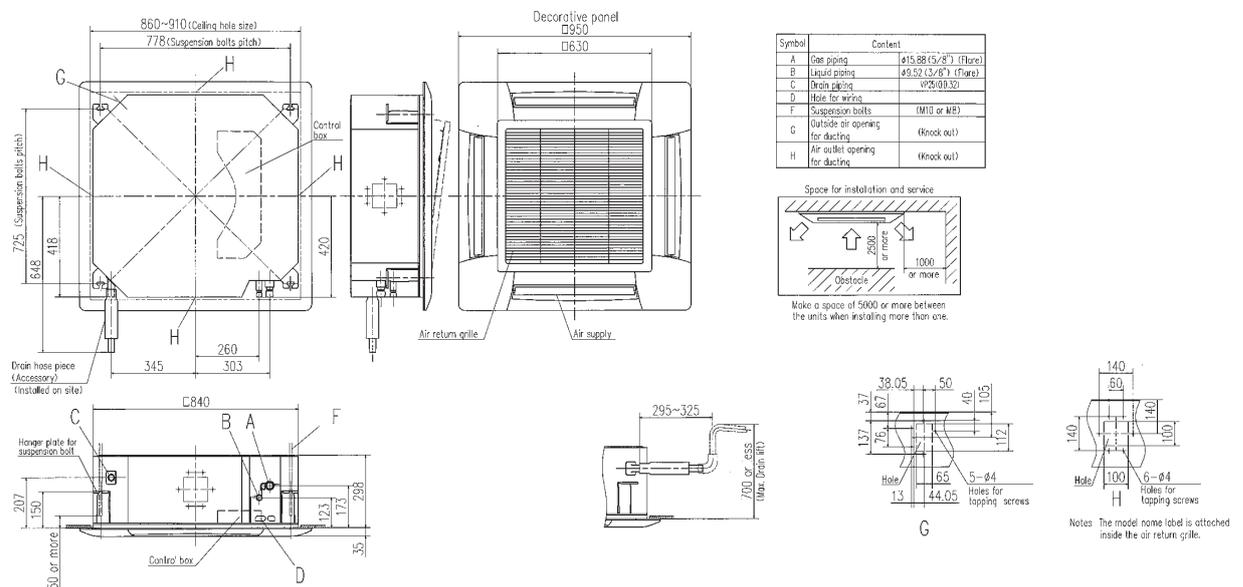
FDC	Standard Inverter		
	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm)

Models FDT40VF,50VF,60VF,71VF1



Models FDT100VF1,100VF2,125VF,140VF



## SPECIFICATIONS

		Hyper Inverter				
Set model name		FDT40ZMXVF	FDT50ZMXVF	FDT60ZMXVF	FDT71VNXVF1	
Indoor unit		FDT40VF	FDT50VF	FDT60VF	FDT71VF1	
Outdoor unit		SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-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 / 1.06	1.29 / 1.29	1.52 / 1.70	2.04 / 1.94	
EER/COP	Cooling/Heating	4.30 / 4.25	3.88 / 4.19	3.68 / 3.94	3.48 / 4.12	
Inrush current	A	5	5	5	5	
Max. current		12	15	15	17	
Sound power level*1	Indoor	Cooling/Heating	55 / 55	55 / 55	60 / 60	64 / 64
	Outdoor	Cooling/Heating	63 / 63	63 / 63	64 / 64	66 / 66
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31
		Heating (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31
	Outdoor	Cooling/Heating	50 / 50	54 / 50	54 / 54	51 / 48
		Cooling (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17
		Cooling/Heating	36 / 33	40 / 33	41.5 / 39	60 / 50
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 246 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	27.5(Unit:22 Panel:5.5)		29.5(Unit:24 Panel:5.5)	
	Outdoor		45		60	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.30		Max. 50	
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C	-15~43*3			
	Heating		-15~20		-20~20	
Panel	T-PSA-3BW-E					
Air filter, Q'ty	Pocket plastic net x 1(Washable)					
Remote control (option)	wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E					

		Hyper Inverter					
Set model name		FDT100VNXVF2	FDT125VNXVF	FDT140VNXVF	FDT100VSXVF2	FDT125VSXVF	FDT140VSXVF
Indoor unit		FDT100VF2	FDT125VF	FDT140VF	FDT100VF2	FDT125VF	FDT140VF
Outdoor unit		FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption	Cooling/Heating kW	2.50 / 2.58	3.28 / 3.43	4.19 / 4.20	2.50 / 2.58	3.28 / 3.43	4.19 / 4.20
EER/COP	Cooling/Heating	4.00 / 4.34	3.81 / 4.08	3.34 / 3.81	4.00 / 4.34	3.81 / 4.08	3.34 / 3.81
Inrush current	A	5	5	5	5	5	5
Max. current		24	26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	65 / 65	68 / 68	68 / 68	65 / 65	68 / 68
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38	40 / 37 / 35	42 / 40 / 37
		Heating (Hi/Me/Lo)	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38	40 / 37 / 35	42 / 40 / 37
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50
		Cooling (Hi/Me/Lo)	27 / 24 / 20	30 / 27 / 23	30 / 27 / 23	27 / 24 / 20	30 / 27 / 23
Air flow ※1	Indoor	Heating (Hi/Me/Lo)	27 / 24 / 20	30 / 27 / 23	30 / 27 / 23	27 / 24 / 20	30 / 27 / 23
		Cooling/Heating	100 / 100	100 / 100	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	kg	32.5(Unit:27 Panel:5.5)				
	Outdoor		105				
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max.100				
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*3				
	Heating		-20~20				
Panel	T-PSA-3BW-E						
Air filter, Q'ty	Pocket plastic net x 1(Washable)						
Remote control (option)	wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E						

※1 Powerful-Hi can be selected.

Sound pressure level: 40/50ZMXVF 39dB(A), 60ZMXVF 46dB(A), 71VNXVF1 46dB(A), 100VN(S)XVF2 51dB(A), 125/140VN(S)XVF 51dB(A)

Air flow: 40/50ZMXVF 20m³/min, 60ZMXVF 28m³/min, 71VNXVF1 28m³/min, 100VN(S)XVF2 37m³/min, 125/140VN(S)XVF 37m³/min

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter					
		FDT71VNXPVF	FDT100VNXPVF	FDT125VNXPVF	FDT140VNXPVF1	FDT140VNXTVF	
		Twin				Triple	
Indoor unit		FDT40VF	FDT50VF	FDT60VF	FDT71VF1	FDT50VF	
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 / 2.66	3.06 / 3.22	3.88 / 3.70	3.88 / 3.76	
EER/COP	Cooling/Heating	3.84 / 4.02	3.91 / 4.21	4.08 / 4.35	3.61 / 4.32	3.61 / 4.26	
Inrush current	A	5	5	5	5	5	
Max. current		17	24	26	26	26	
Sound power level*1	Indoor*2	Cooling/Heating	55 / 55	55 / 55	60 / 60	64 / 64	55 / 55
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 *2	Indoor*2	Cooling (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30
		Heating (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
		Cooling/Heating	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
Air flow *2	Indoor*2	Cooling (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
		Heating (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 246 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		27.5(Unit:22 Panel:5.5)		29.5(Unit:24 Panel:5.5)		
	Outdoor		60	105		27.5(Unit:22 Panel:5.5)	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m	Max. 50	Max. 100			
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C	-15~43*3				
	Heating		-20~20				
Panel			T-PSA-3BW-E				
Air filter, Q'ty			Pocket plastic net x 1(Washable)				
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E				

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter				
		FDT100VXSPVF	FDT125VXSPVF	FDT140VXSPVF1	FDT140VXSTVF	
		Twin			Triple	
Indoor unit		FDT50VF	FDT60VF	FDT71VF1	FDT50VF	
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 / 2.66	3.06 / 3.22	3.88 / 3.70	3.88 / 3.76	
EER/COP	Cooling/Heating	3.91 / 4.21	4.08 / 4.35	3.61 / 4.32	3.61 / 4.26	
Inrush current	A	5	5	5	5	
Max. current		15	15	15	15	
Sound power level*1	Indoor*2	Cooling/Heating	55 / 55	60 / 60	64 / 64	55 / 55
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1 *2	Indoor*2	Cooling (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30
		Heating (Hi/Me/Lo)	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	49 / 52
		Cooling/Heating	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
Air flow *2	Indoor*2	Cooling (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
		Heating (Hi/Me/Lo)	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 246 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		1,300 x 970 x 370			
Net weight	Indoor		27.5(Unit:22 Panel:5.5)		29.5(Unit:24 Panel:5.5)	
	Outdoor		105		27.5(Unit:22 Panel:5.5)	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.100			
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*3			
	Heating		-20~20			
Panel			T-PSA-3BW-E			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E			

\*2 Powerful-Hi can be selected.

Sound pressure level: 71VNXPVF 39dB(A), 100VN(S)XPVF 39dB(A), 125VN(S)XPVF 46dB(A), 140VN(S)XPVF1 46dB(A), 140VN(S)XTVF 39dB(A)

Air flow: 71VNXPVF 20m<sup>3</sup>/min, 100VN(S)XPVF 20m<sup>3</sup>/min, 125VN(S)XPVF 28m<sup>3</sup>/min, 140VN(S)XPVF1 28m<sup>3</sup>/min, 140VN(S)XTVF 20m<sup>3</sup>/min

## SPECIFICATIONS

Set model name		Micro Inverter								
		FDT100VNVF2	FDT125VNVF	FDT140VNVF	FDT100VSF2	FDT125VSF	FDT140VSF			
Indoor unit		FDT100VF2	FDT125VF	FDT140VF	FDT100VF2	FDT125VF	FDT140VF			
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS			
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)		kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)		
Nominal heating capacity (Min~Max)		kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)		
Power consumption		Cooling/Heating	kW		2.76 / 2.74	4.05 / 3.77	4.98 / 4.57	2.76 / 2.74	4.05 / 3.77	4.98 / 4.57
EER/COP			Cooling/Heating		3.62 / 4.09	3.09 / 3.71	2.81 / 3.50	3.62 / 4.09	3.09 / 3.71	2.81 / 3.50
Inrush current		A	5		5	5	5	5	5	
Max. current			24		24	24	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	65 / 65		68 / 68	68 / 68	65 / 65	68 / 68	68 / 68	
	Outdoor		70 / 70		72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)		40 / 37 / 35	42 / 40 / 37	43 / 41 / 38	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38
			Heating (Hi/Me/Lo)	40 / 37 / 35		42 / 40 / 37	43 / 41 / 38	40 / 37 / 35	42 / 40 / 37	43 / 41 / 38
	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	m³/min		27 / 24 / 20	30 / 27 / 23	30 / 27 / 23	27 / 24 / 20	30 / 27 / 23	30 / 27 / 23
			Heating (Hi/Me/Lo)	27 / 24 / 20		30 / 27 / 23	30 / 27 / 23	27 / 24 / 20	30 / 27 / 23	30 / 27 / 23
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm					Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor		845 x 970 x 370							
Net weight	Indoor		kg					32.5(Unit:27 Panel:5.5)		
	Outdoor		81					83		
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m					Max.50		
Vertical height differences	Outdoor is higher/lower		m					Max.30 / Max.15		
Outdoor operating temperature range	Cooling		°C					-15~43*3		
	Heating		-20~20							
Panel	T-PSA-3BW-E									
Air filter, Q'ty	Pocket plastic net x 1(Washable)									
Remote control (option)	wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E									

The values are for simultaneous Multi operation.

Set model name		Micro Inverter									
		FDT100VNPVF	FDT125VNPVF	FDT140VNPVF1	FDT140VNTVF	FDT100VSPVF	FDT125VSPVF	FDT140VSPVF1			
Indoor unit		FDT50VF	FDT60VF	FDT71VF1	FDT50VF	FDT50VF	FDT60VF	FDT71VF1			
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS			
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz						
Nominal cooling capacity (Min~Max)		kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)			
Nominal heating capacity (Min~Max)		kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)			
Power consumption		Cooling/Heating	kW		2.94 / 3.09	3.95 / 3.70	4.51 / 4.58	4.65 / 4.63	2.94 / 3.09	3.95 / 3.70	4.51 / 4.58
EER/COP			Cooling/Heating		3.40 / 3.62	3.16 / 3.78	3.10 / 3.49	3.01 / 3.46	3.40 / 3.62	3.16 / 3.78	3.10 / 3.49
Inrush current		A	5		5	5	5	5	5		
Max. current			24		24	24	15	15	15		
Sound power level*1	Indoor*2	Cooling/Heating	55 / 55		60 / 60	64 / 64	55 / 55	55 / 55	60 / 60	64 / 64	
	Outdoor		70 / 70		72 / 72	73 / 73	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)	dB(A)		33 / 31 / 30	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31
			Heating (Hi/Me/Lo)	33 / 31 / 30		33 / 31 / 30	35 / 33 / 31	33 / 31 / 30	33 / 31 / 30	33 / 31 / 30	35 / 33 / 31
	Outdoor	Cooling/Heating		49 / 49	50 / 51	51 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo)	m³/min		18 / 16 / 14	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17
			Heating (Hi/Me/Lo)	18 / 16 / 14		18 / 16 / 14	21 / 19 / 17	18 / 16 / 14	18 / 16 / 14	18 / 16 / 14	21 / 19 / 17
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm					Unit: 246 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor		845 x 970 x 370								
Net weight	Indoor		kg		27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)			
	Outdoor		81		83						
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 15.88(5/8")							
Refrigerant line (one way) length			m					Max.50			
Vertical height differences	Outdoor is higher/lower		m					Max.30 / Max.15			
Outdoor operating temperature range	Cooling		°C					-15~43*3			
	Heating		-20~20								
Panel	T-PSA-3BW-E										
Air filter, Q'ty	Pocket plastic net x 1(Washable)										
Remote control (option)	wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E										

※1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)VF2 51dB(A), 125/140VN(S)VF 51dB(A), 100VN(S)PVF 39dB(A), 125VN(S)PVF 46dB(A), 140VN(S)PVF1 46dB(A), 140VNTVF 39dB(A)  
Air flow: 100VN(S)VF2 37m³/min, 125/140VN(S)VF 37m³/min, 100VN(S)PVF 20m³/min, 125VN(S)PVF 28m³/min, 140VN(S)PVF1 28m³/min, 140VNTVF 20m³/min

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter						
		FDT200VSAPVF2	FDT250VSAPVF	FDT140VSTVF	FDT200VSATVF1	FDT200VSADVF	FDT250VSADVF	
		Twin		Triple		Double Twin		
Indoor unit		FDT100VF2	FDT125VF	FDT50VF	FDT71VF1	FDT50VF	FDT60VF	
Outdoor unit		FDC200VSA	FDC250VSA	FDC140VS	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 )	14.0 ( 5.0 ~ 14.5 )	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 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	
Power consumption	Cooling/Heating kW	6.25 / 6.02	8.36 / 7.15	4.65 / 4.63	6.01 / 5.76	6.26 / 6.15	7.42 / 6.83	
EER/COP	Cooling/Heating	3.04 / 3.72	2.87 / 3.78	3.01 / 3.46	3.16 / 3.89	3.04 / 3.64	3.23 / 3.95	
Inrush current	A	5	5	5	5	5	5	
Max. current		20	21	15	20	20	21	
Sound power level*1	Indoor	Cooling/Heating	65 / 65	68 / 68	55 / 55	64 / 64	55 / 55	60 / 60
	Outdoor	Cooling/Heating	72 / 74	73 / 75	73 / 73	72 / 74	72 / 74	73 / 75
Sound pressure level*1 **2	Indoor	Cooling (Hi/Me/Lo)	40 / 37 / 35	42 / 40 / 37	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30	33 / 31 / 30
	Outdoor	Cooling/Heating	40 / 37 / 35	42 / 40 / 37	33 / 31 / 30	35 / 33 / 31	33 / 31 / 30	33 / 31 / 30
Air flow **2	Indoor	Cooling (Hi/Me/Lo)	58 / 59	59 / 62	51 / 51	58 / 59	58 / 59	59 / 62
	Outdoor	Cooling/Heating	27 / 24 / 20	30 / 27 / 23	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14	18 / 16 / 14
Exterior dimensions	Indoor	HeightxWidthxDepth	27 / 24 / 20	30 / 27 / 23	18 / 16 / 14	21 / 19 / 17	18 / 16 / 14	18 / 16 / 14
	Outdoor	mm	135 / 135	143 / 151	75 / 73	135 / 135	135 / 135	143 / 151
Net weight	Indoor	kg	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		Unit: 246 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor	mm	1,300 x 970 x 370	1,505 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	
Ref.piping size	Liquid/Gas	ømm	32.5(Unit:27 Panel:5.5)		27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)
	Refrigerant line (one way) length	m	115	143	83	115	143	
Vertical height differences	Outdoor is higher/lower	m	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")	9.52(3/8") / 22.22(7/8")		
Outdoor operating temperature range	Cooling	°C	Max.70		Max.50	Max.70		
	Heating	°C	-15~50*3		-15~43*3	-15~50*3		
Panel			-15~20		-20~20	-15~20		
Air filter, Q'ty			T-PSA-3BW-E					
Remote control (option)			Pocket plastic net x 1(Washable)					
			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E					

Set model name		Standard Inverter				
		FDT71VNPVF1	FDT90VNPVF2	FDT100VNP1VF2		
Indoor unit		FDT71VF1	FDT100VF2	FDT100VF2		
Outdoor unit		FDC71VNP	FDC90VNP	FDC100VNP		
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )		
Nominal heating capacity (Min~Max)	kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )		
Power consumption	Cooling/Heating kW	2.50 / 1.90	2.67 / 2.19	2.76 / 2.84		
EER/COP	Cooling/Heating	2.84 / 3.74	3.37 / 4.11	3.62 / 4.52		
Inrush current	A	5	5	5		
Max. current		14.5	18.0	21.0		
Sound power level*1	Indoor	Cooling/Heating	64 / 64	65 / 65	65 / 65	
	Outdoor	Cooling/Heating	67 / 67	69 / 69	70 / 70	
Sound pressure level*1 **2	Indoor	Cooling (Hi/Me/Lo)	35 / 33 / 31	40 / 37 / 35	40 / 37 / 35	
	Outdoor	Cooling/Heating	35 / 33 / 31	40 / 37 / 35	40 / 37 / 35	
Air flow **2	Indoor	Cooling (Hi/Me/Lo)	54 / 54	57 / 55	57 / 61	
	Outdoor	Cooling/Heating	21 / 19 / 17	27 / 24 / 20	27 / 24 / 20	
Exterior dimensions	Indoor	HeightxWidthxDepth	21 / 19 / 17	27 / 24 / 20	27 / 24 / 20	
	Outdoor	mm	36 / 36	63 / 49.5	75 / 79	
Net weight	Indoor	kg	Unit: 246 x 840 x 840 Panel: 35 x 950 x 950		Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor	mm	29.5 ( Unit: 24 Panel: 5.5 )	32.5 ( Unit: 27 Panel: 5.5 )	70	
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.20 / Max.20	
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20		-15~46*3	
Outdoor operating temperature range	Cooling	°C	-15~20		-15~20	
	Heating	°C	-15~20		-15~20	
Panel			T-PSA-3BW-E			
Air filter, Q'ty			Pocket Plastic net x1(Washable)			
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-T-36W-E			

\*\*2 Powerful-Hi can be selected.

Sound pressure level : 200VSAPVF2 51dB(A), 250VSAPVF 51dB(A), 140VSTVF 39dB(A), 200VSATVF1 46dB(A), 200VSADVF 39dB(A), 250VSADVF 46dB(A), 71VNPVF1 46dB(A), 90VNPVF2 51dB(A), 100VNP1VF2 51dB(A)  
 Air flow : 200VSAPVF2 37m³/min, 250VSAPVF 37m³/min, 140VSTVF 20m³/min, 200VSATVF1 28m³/min, 200VSADVF 20m³/min, 250VSADVF 28m³/min, 71VNPVF1 28m³/min, 90VNPVF2 37m³/min, 100VNP1VF2 37m³/min

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

# FDTC



Fits into standard  
600 x 600 ceiling



FDTC 40/50/60

Remote control (Option)

Wired

Wireless



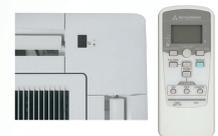
RC-EX1A



RC-E5



RCH-E3



RCN-TC-24W-ER

Point 1

## Individual flap control system

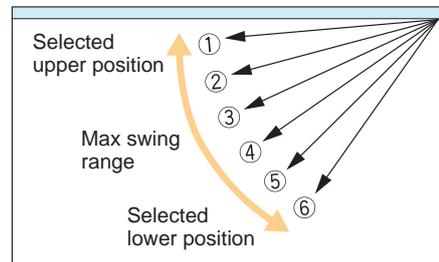
According to room temperature conditions, four directions of air flow can be controlled individually by following Flap control system. Individual flap control is available even after installation.



Point 2

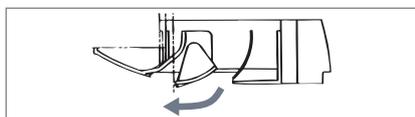
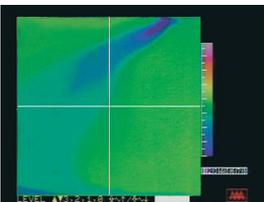
## Flap control

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



Point 3

## "CLEARER" Air Flow



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

Point 4

## Installation Workability



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

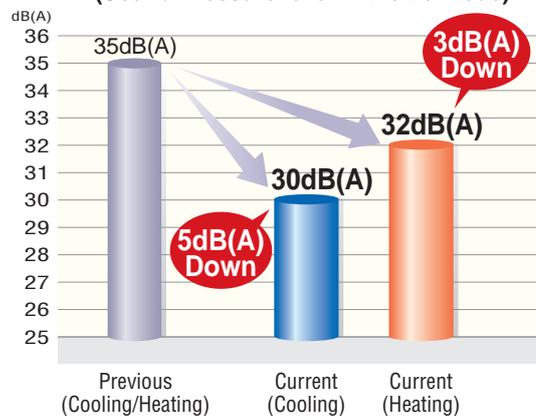


wireless remote control  
RCN-TC-24W-ER

Point 5

## Quiet operation

(Sound Pressure level in the Lo mode)



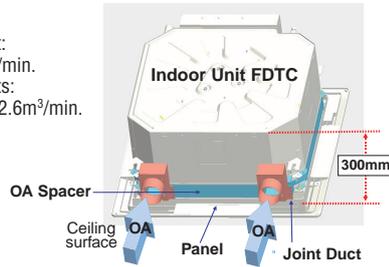
**Point 6**

## Taking OA (Outside Air) into inside

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

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

Using 1 joint duct:  
 OA up to 1.3m<sup>3</sup>/min.  
 Using 2 joint ducts:  
 OA from 1.3 to 2.6m<sup>3</sup>/min.

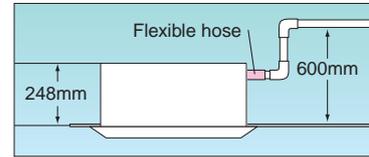


**Point 7**

## 600mm Drain Pump

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

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



**Point 8**

## Arrangement of installation balance of indoor unit

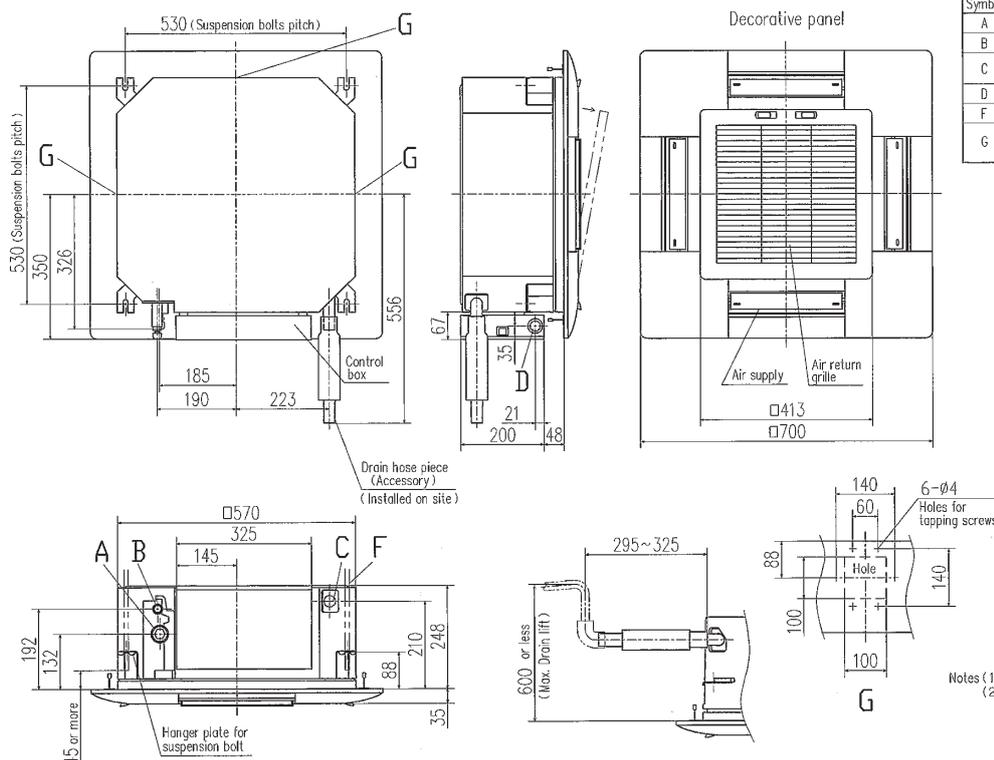
Checking from access ports with detachable covers at each corner, arrangement of installation balance of indoor unit can be available without removing a panel. Workability is improved and time of installation is reduced.



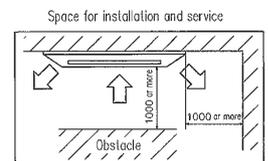
### OUTDOOR UNIT

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

### DIMENSIONS (Unit:mm)



Symbol	Content
A	Gas piping #12.7 (1/2") (Flare)
B	Liquid piping #6.35 (1/4") (Flare)
C	Drain piping Connectable with VP20 (Standard) or VP25 (used with attached socket)
D	Hole for wiring #25
F	Suspension bolts (M10 or M8)
G	Air outlet opening for ducting (Knock out)



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

## SPECIFICATIONS

		Hyper Inverter		
Set model name		FDTC40ZMXVF	FDTC50ZMXVF	FDTC60ZMXVF
Indoor unit		FDTC40VF	FDTC50VF	FDTC60VF
Outdoor unit		SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )
Nominal heating capacity (Min~Max)	kW	4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 6.7 )
Power consumption	Cooling/Heating kW	1.04 / 1.10	1.56 / 1.45	1.99 / 2.07
EER/COP	Cooling/Heating	3.85 / 4.09	3.21 / 3.72	2.81 / 3.24
Inrush current		5	5	5
Max. current	A	12	15	15
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60
	Outdoor	Cooling/Heating	63 / 63	64 / 64
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	42 / 36 / 30	42 / 36 / 30
		Heating (Hi/Me/Lo)	42 / 36 / 32	46 / 39 / 32
	Outdoor	Cooling/Heating	50 / 50	54 / 50
		Cooling/Heating	11.5 / 9 / 7	11.5 / 9 / 7
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	11.5 / 9 / 7	13.5 / 10 / 7
		Heating (Hi/Me/Lo)	11.5 / 9 / 8	13.5 / 10 / 8
	Outdoor	Cooling/Heating	36 / 33	40 / 33
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700	
	Outdoor		640 x 800(+71) x 290	
Net weight	Indoor		18.5(Unit:15 Panel:3.5)	
	Outdoor		45	
Ref.piping size	Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")	
Refrigerant line (one way) length		m	Max.30	
Vertical height differences	Outdoor is higher/lower	m	Max.20 / Max.20	
Outdoor operating temperature range	Cooling	°C	-15~43*3	
	Heating		-15~20	
Panel			TC-PSA-25W-E	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-TC-24W-ER	

The values are for simultaneous Multi operation.

		Hyper Inverter						
Set model name		FDTC71VNXPFV	FDTC100VNXPFV	FDTC125VNXPFV	FDTC140VNXTVF	FDTC100VXSXPFV	FDTC125VXSXPFV	FDTC140VXSXTVF
		Twin			Triple	Twin		Triple
Indoor unit		FDTC40VF	FDTC50VF	FDTC60VF	FDTC50VF	FDTC50VF	FDTC60VF	FDTC50VF
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)	kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating kW	2.04 / 2.21	3.18 / 3.20	4.10 / 4.10	4.34 / 4.34	3.18 / 3.20	4.10 / 4.10	4.34 / 4.34
EER/COP	Cooling/Heating	3.48 / 3.62	3.14 / 3.50	3.05 / 3.41	3.23 / 3.69	3.14 / 3.50	3.05 / 3.41	3.23 / 3.69
Inrush current		5	5	5	5	5	5	5
Max. current	A	17	24	26	26	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)	42 / 36 / 30	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30
		Heating (Hi/Me/Lo)	42 / 36 / 32	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50
		Cooling/Heating	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo)	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7	11.5 / 9 / 7	13.5 / 10 / 7
		Heating (Hi/Me/Lo)	11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8	11.5 / 9 / 8	13.5 / 10 / 8
	Outdoor	Cooling/Heating	60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700					
	Outdoor		750 x 880(+88) x 340 1,300 x 970 x 370					
Net weight	Indoor		18.5(Unit:15 Panel:3.5)					
	Outdoor		60 105					
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		m	Max.50 Max.100					
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling	°C	-15~43*3					
	Heating		-20~20					
Panel			TC-PSA-25W-E					
Air filter, Q'ty			Pocket plastic net x 1(Washable)					
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-TC-24W-ER					

※1 Powerful-Hi can be selected.

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

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

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter		
		FDTC100VNPVF	FDTC125VNPVF	FDTC140VNTVF
		Twin		Triple
Indoor unit		FDTC50VF	FDTC60VF	FDTC50VF
Outdoor unit		FDC100VN	FDC125VN	FDC140VN
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)
Power consumption	Cooling/Heating kW	3.25 / 3.26	5.35 / 4.62	4.64 / 4.52
EER/COP	Cooling/Heating	3.08 / 3.44	2.34 / 3.03	3.02 / 3.54
Inrush current		5	5	5
Max. current		24	24	24
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60
	Outdoor	Cooling/Heating	70 / 70	73 / 73
Sound pressure level*1 **2	Indoor*2	Cooling (Hi/Me/Lo)	42 / 36 / 30	42 / 36 / 30
	Indoor*2	Heating (Hi/Me/Lo)	42 / 36 / 32	42 / 36 / 32
Air flow **2	Indoor*2	Cooling (Hi/Me/Lo)	11.5 / 9 / 7	11.5 / 9 / 7
	Indoor*2	Heating (Hi/Me/Lo)	11.5 / 9 / 8	11.5 / 9 / 8
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700	
	Outdoor		845 x 970 x 370	
Net weight	Indoor		18.5(Unit:15 Panel:3.5)	
	Outdoor		81	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m	Max.50	
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C	-15~43*3	
	Heating		-20~20	
Panel			TC-PSA-25W-E	
Air filter, Q'ty			Pocket plastic net x 1(Washable)	
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-TC-24W-ER	

The values are for simultaneous Multi operation.

Set model name		Micro Inverter				
		FDTC100VSPVF	FDTC125VSPVF	FDTC140VSTVF	FDTC200VSADVF	FDTC250VSADVF
		Twin		Triple	Double Twin	
Indoor unit		FDTC50VF	FDTC60VF	FDTC50VF	FDTC50VF	FDTC60VF
Outdoor unit		FDC100VS	FDC125VS	FDC140VS	FDC200VSA	FDC250VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption	Cooling/Heating kW	3.25 / 3.26	5.35 / 4.62	4.64 / 4.52	6.95 / 6.98	11.10 / 9.66
EER/COP	Cooling/Heating	3.08 / 3.44	2.34 / 3.03	3.02 / 3.54	2.73 / 3.21	2.16 / 2.80
Inrush current		5	5	5	5	5
Max. current		15	15	15	20	21
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating	70 / 70	72 / 72	73 / 73	72 / 74
Sound pressure level*1 **2	Indoor*2	Cooling (Hi/Me/Lo)	42 / 36 / 30	46 / 39 / 30	42 / 36 / 30	42 / 36 / 30
	Indoor*2	Heating (Hi/Me/Lo)	42 / 36 / 32	46 / 39 / 32	42 / 36 / 32	42 / 36 / 32
Air flow **2	Indoor*2	Cooling (Hi/Me/Lo)	11.5 / 9 / 7	13.5 / 10 / 7	11.5 / 9 / 7	11.5 / 9 / 7
	Indoor*2	Heating (Hi/Me/Lo)	11.5 / 9 / 8	13.5 / 10 / 8	11.5 / 9 / 8	11.5 / 9 / 8
Exterior dimensions	Indoor	HeightxWidthxDepth	Unit: 248 x 570 x 570 Panel: 35 x 700 x 700			
	Outdoor		845 x 970 x 370		1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		18.5(Unit:15 Panel:3.5)			
	Outdoor		83		115	143
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length		m	Max.50			Max.70
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*3			-15~50*3
	Heating		-20~20			-15~20
Panel			TC-PSA-25W-E			
Air filter, Q'ty			Pocket plastic net x 1(Washable)			
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-TC-24W-ER			

\*\*2 Powerful-Hi can be selected.

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

Air flow: 100/125VN(S)PVF 13.5m<sup>3</sup>/min, 140VN(S)TVF 13.5m<sup>3</sup>/min, 200/250VSADVF 13.5m<sup>3</sup>/min

# DUCT CONNECTED -High Static pressure- FDU



FDU 71/100/125/140



FDU 200/250  
Tropical Usage Mode

Remote control (Option)

Wired

Wireless



RC-EX1A



RC-E5



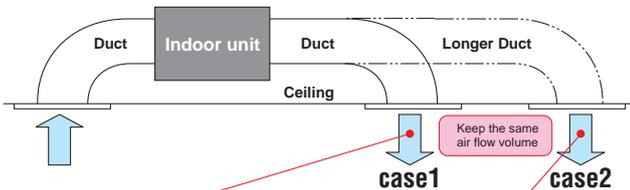
RCH-E3



RCN-KIT3-E

Point 1

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



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

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

<Expansion of external static pressure range>

Previous 10~130Pa → Current 10~200Pa

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

E.S.P. button

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



RC-E5

Point 2

## Reduction of sound pressure level

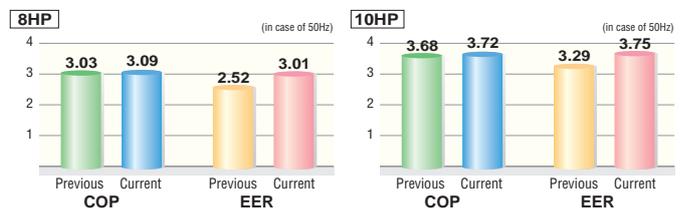
Thanks to use of DC fan motor, fan steps increase from two to four and quiet operation is achieved.(FDU200/250)

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

Point 3

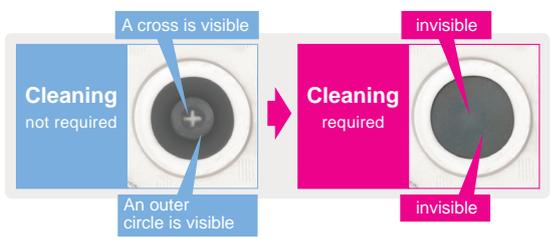
## High efficiency

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



## Point 4 Transparent inspection window

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



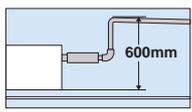
## Point 5 Improvement of the serviceability

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



## Point 6 Enhanced installation workability

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



### Round duct adapter

In case of requirements of round duct adapter, please access the followings for details.



Company : AIRZONE  
 e-mail : jmoral@altracorporacion.es  
 tel : +34-902-400-445

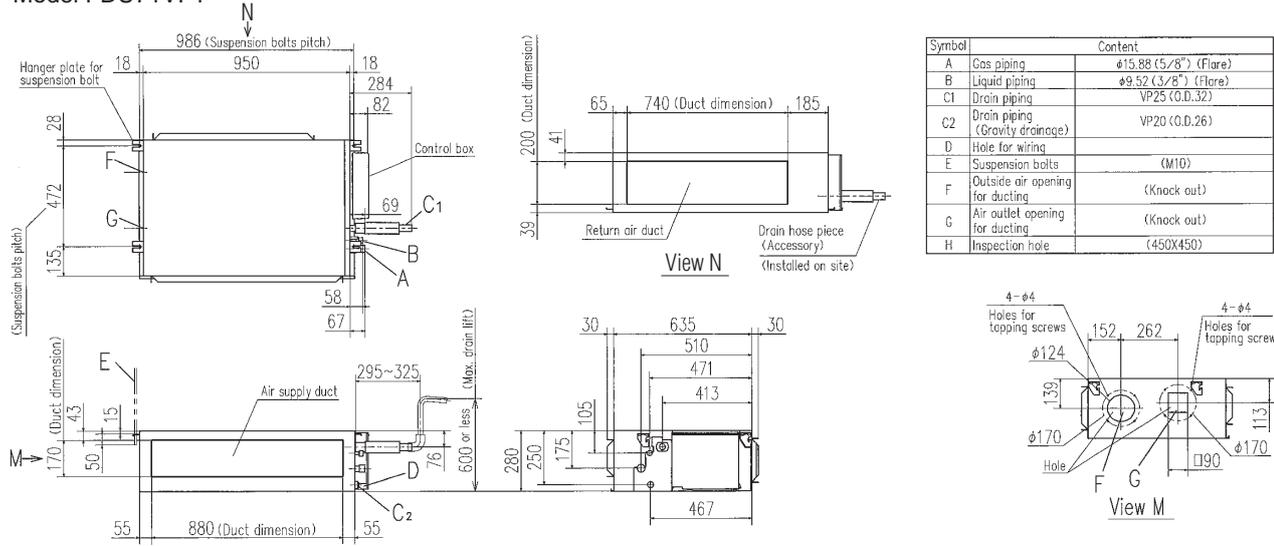
## OUTDOOR UNIT

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

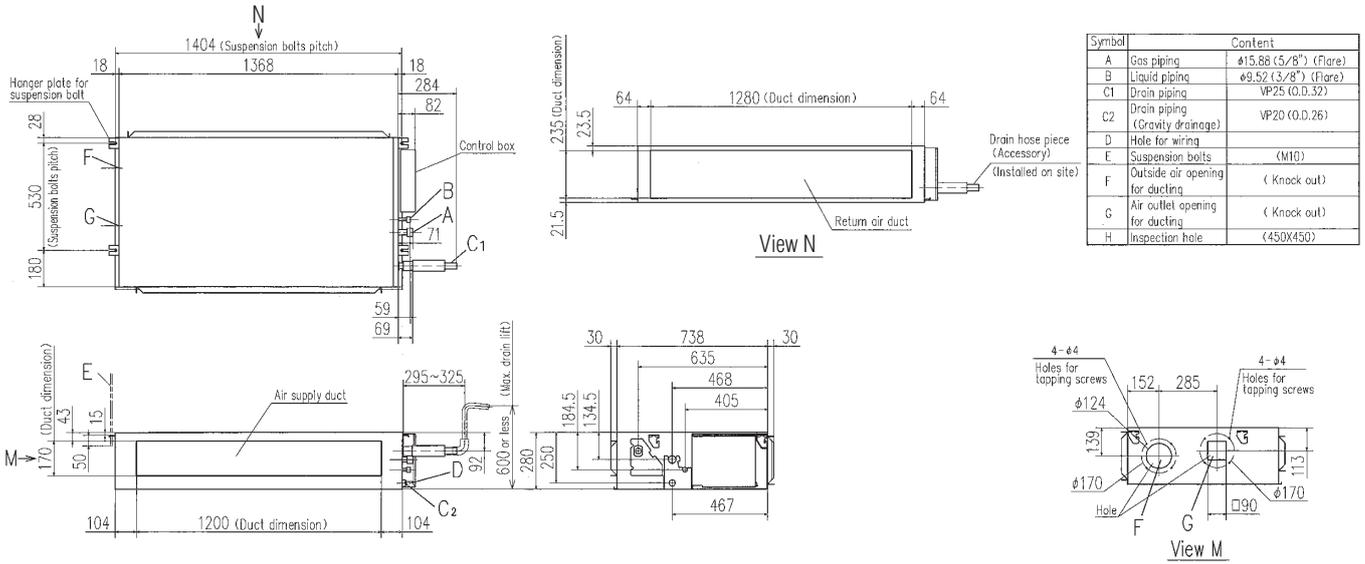
FDC	Standard Inverter		
	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm)

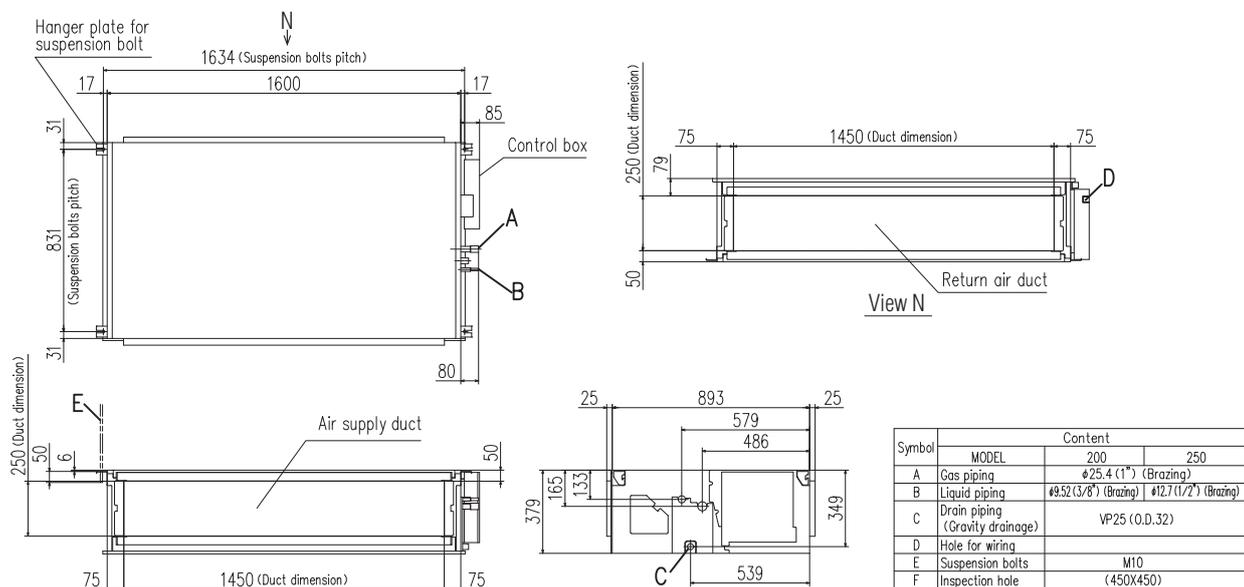
### Model FDU71VF1



### Models FDU100VF2, 125VF, 140VF



### Models FDU200VG, 250VG



## SPECIFICATIONS

		<i>HyperInverter</i>			
Set model name		FDU71VN(X)VF1	FDU100VN(X)VF2	FDU125VN(X)VF	FDU140VN(X)VF
Indoor unit		FDU71VF1	FDU100VF2	FDU125VF	FDU140VF
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating kW 2.05 / 2.01	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP		Cooling/Heating 3.46 / 3.98	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current		A 5	5	5	5
Max. current		17	25	29	30
Sound power level*1	Indoor	Cooling/Heating 65 / 65	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating 66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) dB(A) 33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Me/Lo) 33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
	Outdoor	Cooling/Heating 51 / 48	48 / 50	48 / 50	49 / 52
		Cooling (Hi/Me/Lo) m³/min 19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
Air flow ※1	Indoor	Heating (Hi/Me/Lo) 19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Outdoor	Cooling/Heating 60 / 50	100 / 100	100 / 100
External static pressure*2		Pa Standard:35 Max:200	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth mm 280 x 950 x 635	280 x 1,370 x 740		
	Outdoor	750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor	kg 34	54		
	Outdoor	60	105		
Ref.piping size		Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m Max.50	Max.100		
Vertical height differences		Outdoor is higher/lower m Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C -15~43*3			
	Heating	-20~20			
Air filter		Procure locally			
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E			

		<i>HyperInverter</i>		
Set model name		FDU100VS(X)VF2	FDU125VS(X)VF	FDU140VS(X)VF
Indoor unit		FDU100VF2	FDU125VF	FDU140VF
Outdoor unit		FDC100VSX	FDC125VSX	FDC140VSX
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)		kW 11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating kW 2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP		Cooling/Heating 3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current		A 5	5	5
Max. current		16	18	19
Sound power level*1	Indoor	Cooling/Heating 65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating 70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) dB(A) 38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Me/Lo) 38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
	Outdoor	Cooling/Heating 48 / 50	48 / 50	49 / 52
		Cooling (Hi/Me/Lo) m³/min 28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
Air flow ※1	Indoor	Heating (Hi/Me/Lo) 28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Outdoor	Cooling/Heating 100 / 100	100 / 100
External static pressure*2		Pa Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth mm 280 x 950 x 635	280 x 1,370 x 740	
	Outdoor	750 x 880(+88) x 340	1,300 x 970 x 370	
Net weight	Indoor	kg 34	54	
	Outdoor	60	105	
Ref.piping size		Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m Max.50	Max.100	
Vertical height differences		Outdoor is higher/lower m Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C -15~43*3		
	Heating	-20~20		
Air filter		Procure locally		
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E		

\*1 Powerful-Hi can be selected.

Sound pressure level: 71VN(X)VF1 38dB(A), 100VN(S)XVF2 44dB(A), 125VN(S)XVF 45dB(A), 140VN(S)XVF 47dB(A)

Air flow: 71VN(X)VF1 24m³/min, 100VN(S)XVF2 36m³/min, 125VN(S)XVF 39m³/min, 140VN(S)XVF 48m³/min

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

		Micro Inverter					
Set model name		FDU100VNVF2	FDU125VNVF	FDU140VNVF	FDU100VSVF2	FDU125VSVF	FDU140VSVF
Indoor unit		FDU100VF2	FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)		kW 11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)
Power consumption		kW 2.80 / 3.02	3.90 / 3.88	4.95 / 4.69	2.80 / 3.02	3.90 / 3.88	4.95 / 4.69
EER/COP		Cooling/Heating 3.57 / 3.71	3.21 / 3.61	2.83 / 3.41	3.57 / 3.71	3.21 / 3.61	2.83 / 3.41
Inrush current		A					
Max. current		5	5	5	5	5	5
		25	27	28	16	18	19
Sound power level*1	Indoor	Cooling/Heating 65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating 70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) dB(A) 38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Me/Lo) 38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
	Outdoor	Cooling/Heating 49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51
		Cooling (Hi/Me/Lo) 28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
Air flow ※1	Indoor	Heating (Hi/Me/Lo) m³/min 28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Outdoor	Cooling/Heating 75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*2		Pa Standard:60 Max:200					
Exterior dimensions	Indoor	mm 280 x 1,370 x 740					
	Outdoor	HeightxWidthxDepth 845 x 970 x 370					
Net weight	Indoor	kg 54					
	Outdoor	81			83		
Ref.piping size		Liquid/Gas ømm 9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		m Max.50					
Vertical height differences		Outdoor is higher/lower m Max.30 / Max.15					
Outdoor operating temperature range	Cooling	°C -15~43*3					
	Heating	-20~20					
Air filter		Procure locally					
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E					

		Micro Inverter		Standard Inverter			
Set model name		FDU200VSAVG	FDU250VSAVG	FDU71VNPVF1	FDU90VNPVF2	FDU100VNP1VF2	
Indoor unit		FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2	
Outdoor unit		FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP	FDC100VNP	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)		kW 19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)	
Nominal heating capacity (Min~Max)		kW 22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)	
Power consumption		kW 6.15 / 6.03	7.98 / 7.20	2.63 / 1.96	2.65 / 2.25	3.00 / 2.93	
EER/COP		Cooling/Heating 3.09 / 3.71	3.01 / 3.75	2.70 / 3.62	3.40 / 4.00	3.33 / 3.82	
Inrush current		A					
Max. current		5	5	5	5	5	
		25	27	14.5	18.0	22.0	
Sound power level*1	Indoor	Cooling/Heating 75 / 75	75 / 75	65 / 65	65 / 65	65 / 65	
	Outdoor	Cooling/Heating 72 / 74	73 / 75	67 / 67	69 / 69	70 / 70	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) dB(A) 50 / 47 / 45	50 / 47 / 45	33 / 29 / 25	38 / 36 / 30	38 / 36 / 30	
		Heating (Hi/Me/Lo) 50 / 47 / 45	50 / 47 / 45	33 / 29 / 25	38 / 36 / 30	38 / 36 / 30	
	Outdoor	Cooling/Heating 57 / 59	59 / 62	54 / 54	57 / 55	57 / 61	
		Cooling (Hi/Me/Lo) 72 / 64 / 56	72 / 64 / 56	19 / 15 / 10	28 / 25 / 19	28 / 25 / 19	
Air flow ※1	Indoor	Heating (Hi/Me/Lo) m³/min 72 / 64 / 56	72 / 64 / 56	19 / 15 / 10	28 / 25 / 19	28 / 25 / 19	
		Outdoor	Cooling/Heating 135 / 135	143 / 151	36 / 36	63 / 49.5	75 / 79
External static pressure*2		Pa Standard:72 Max:200		Standard:35 Max:200	Standard:60 Max:200		
Exterior dimensions	Indoor	mm 379 x 1,600 x 893		280 x 950 x 635	280 x 1,370 x 740		
	Outdoor	1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370	
Net weight	Indoor	kg 89		34	54		
	Outdoor	115	143	45	57	70	
Ref.piping size		Liquid/Gas ømm 9.52(3/8") / 22.22(7/8")		12.7(1/2") / 25.4(1")	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	
Refrigerant line (one way) length		m Max.70		Max.30			
Vertical height differences		Outdoor is higher/lower m Max.30 / Max.15		Max.20 / Max.20			
Outdoor operating temperature range	Cooling	°C -15~50*3		-15~46*3			
	Heating	-15~20		-15~20			
Air filter		Procure locally		Procure locally			
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E			

※1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)VF2 44dB(A), 125VN(S)VF 45dB(A), 140VN(S)VF 47dB(A), 200/250VSAVG:52dB(A), 71VNPVF1 38dB(A), 90VNPVF2 44dB(A), 100VNP1VF2 44dB(A)

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

### NOTES:

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

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

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

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

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

# DUCT CONNECTED -Low/Middle Static pressure-

# FDUM



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

## Remote control (Option)

### Wired

### Wireless



RC-EX1A



RC-E5



RCH-E3



RCN-KIT3-E



### Filter kit (option)

UM-FL1EF : for 40, 50

UM-FL2EF : for 60, 71

UM-FL3EF : for 100, 125, 140

external static pressure loss:5Pa

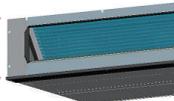
Point 1

## Thin design

The height of all FDUM models is only 280mm.

70mm less

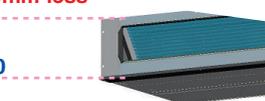
H 350  
H 280



FDUM100/125/140VF

19mm less

H 299  
H 280



FDUM40/50/60/71VF

Point 2

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

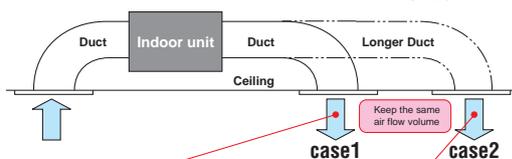
You can set External Static Pressure (E.S.P.) by method of manual setting on remote control. Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of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

### E.S.P. button

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



RC-E5



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

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

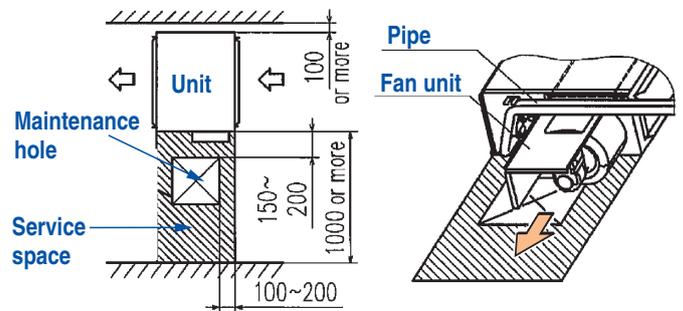
### <Expansion of external static pressure range>

Previous 10~130Pa → Current 10~200Pa

Point 3

## Improvement of the serviceability

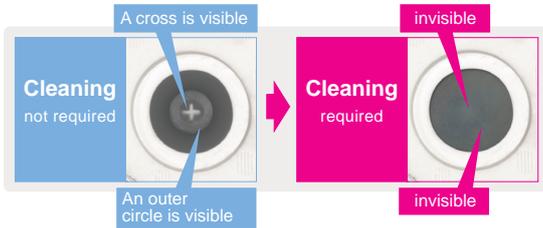
Fan unit (impeller and motor) can be pulled out from the right side of the unit. Maintenance can be available from the right side or the bottom side.



**Point 4**

## Transparent inspection window

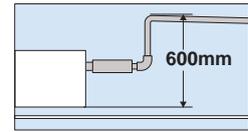
Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.



**Point 5**

## Enhanced installation workability

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



### Round duct adapter

In case of requirements of round duct adapter, please access the followings for details.



Company : AIRZONE  
e-mail : jmoral@altracorporacion.es  
tel : +34-902-400-445

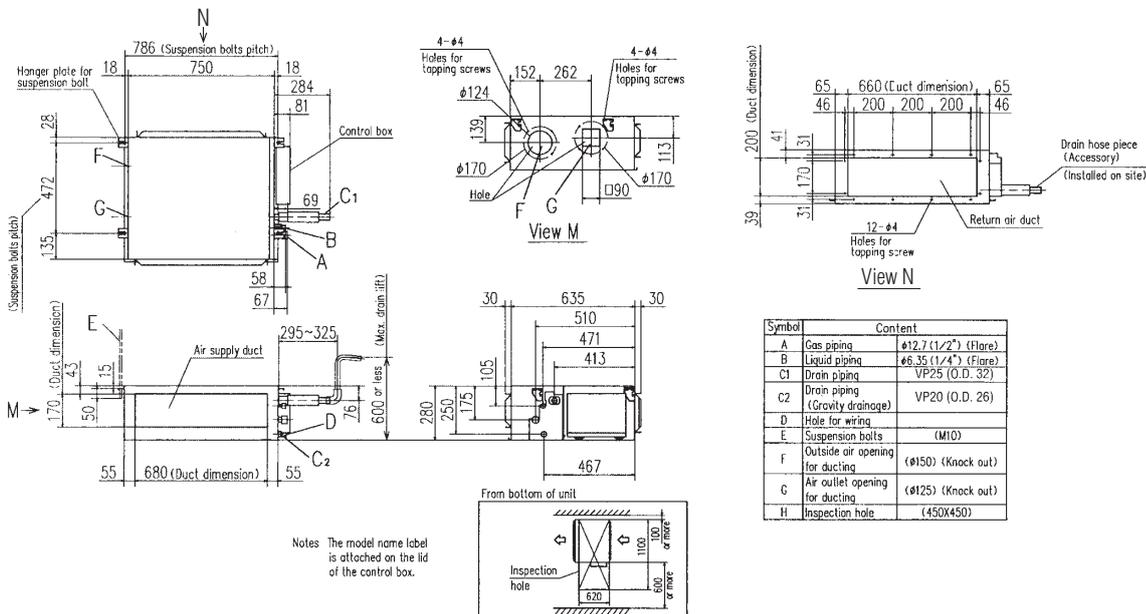
## OUTDOOR UNIT

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

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

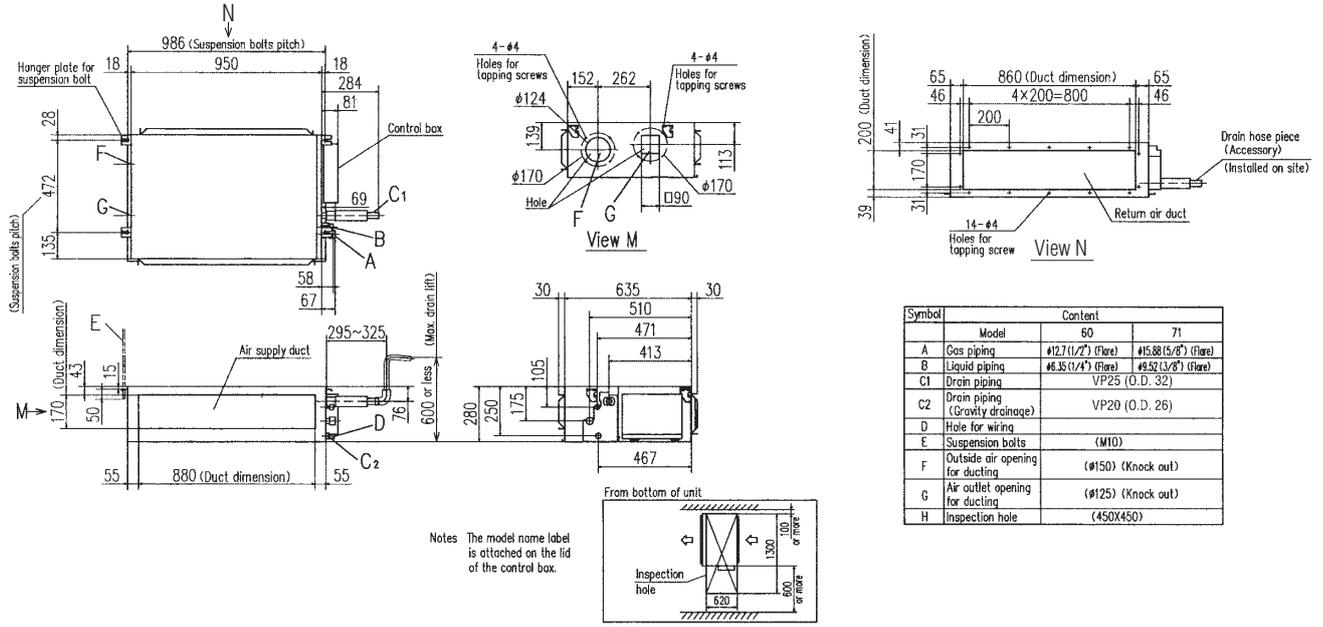
## DIMENSIONS (Unit:mm)

Models FDUM40VF, FDUM50VF

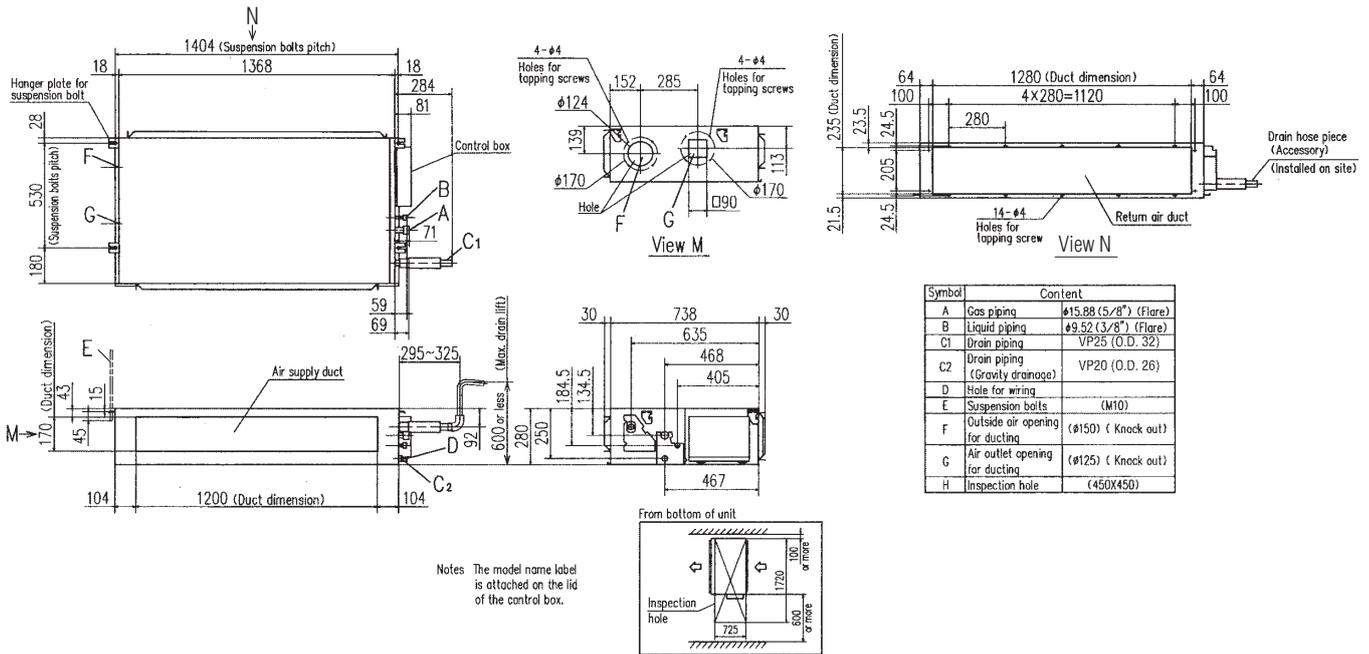


# DIMENSIONS (Unit:mm)

## Models FDUM60VF,71VF1



## Models FDUM100VF2,125VF,140VF



## SPECIFICATIONS

		Hyper Inverter				
Set model name		FDUM40ZMXVF	FDUM50ZMXVF	FDUM60ZMXVF	FDUM71VNXVF1	FDUM100VNXVF2
Indoor unit		FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2
Outdoor unit		SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)		kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )
Power consumption		Cooling/Heating kW 0.952 / 1.07	1.38 / 1.45	1.54 / 1.75	2.03 / 1.99	2.68 / 3.02
EER/COP		Cooling/Heating 4.20 / 4.21	3.62 / 3.72	3.64 / 3.83	3.50 / 4.02	3.73 / 3.71
Inrush current		A				
Max. current		5	5	5	5	5
		12	15	15	17	24
Sound power level*1	Indoor	Cooling/Heating	60 / 60	60 / 60	60 / 60	65 / 65
	Outdoor	Cooling/Heating	63 / 63	63 / 63	64 / 64	66 / 66
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	32 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25
		Heating (Hi/Me/Lo)	32 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25
	Outdoor	Cooling/Heating	50 / 50	54 / 50	54 / 54	51 / 48
		Cooling/Heating	48 / 50	48 / 50	48 / 50	48 / 50
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10
		Heating (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10
	Outdoor	Cooling/Heating	36 / 33	40 / 33	41.5 / 39	60 / 50
External static pressure*3		Pa Standard:35 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth mm 280 x 750 x 635		280 x 950 x 635		280 x 1,370 x 740
	Outdoor	640 x 800(+71) x 290		750 x 880(+88) x 340		1,300 x 970 x 370
Net weight	Indoor	kg 29		34		54
	Outdoor	45		60		105
Ref.piping size	Liquid/Gas	ømm 6.35(1/4") / 12.7(1/2")		9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m Max.30		Max.50		Max.100
Vertical height differences		Outdoor is higher/lower m Max.20 / Max.20		Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C -15~43*4				
	Heating	-15~20		-20~20		
Air filter		Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E				

		Hyper Inverter				
Set model name		FDUM125VNXVF	FDUM140VNXVF	FDUM100VSXVF2	FDUM125VSXVF	FDUM140VSXVF
Indoor unit		FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF
Outdoor unit		FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW 14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption		Cooling/Heating kW 3.49 / 3.77	4.28 / 4.42	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP		Cooling/Heating 3.58 / 3.71	3.27 / 3.62	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current		A				
Max. current		5	5	5	5	5
		26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	67 / 67	70 / 70	65 / 65	67 / 67
	Outdoor	Cooling/Heating	70 / 70	72 / 72	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29
		Heating (Hi/Me/Lo)	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29
	Outdoor	Cooling/Heating	48 / 50	49 / 52	48 / 50	48 / 50
		Cooling/Heating	49 / 52	49 / 52	48 / 50	49 / 52
Air flow ※1	Indoor	Cooling (Hi/Me/Lo)	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20
		Heating (Hi/Me/Lo)	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100
External static pressure*3		Pa Standard:60 Max:100				
Exterior dimensions	Indoor	mm 280 x 1,370 x 740				
	Outdoor	1,300 x 970 x 370				
Net weight	Indoor	kg 54				
	Outdoor	105				
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m Max.100				
Vertical height differences		Outdoor is higher/lower m Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C -15~43*4				
	Heating	-20~20				
Air filter		Filter kit : UM-FL3EF (option)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E				

※1 Powerful-Hi can be selected.

Sound pressure level: 40ZMXVF/50ZMXVF 37dB(A), 60ZMXVF 36dB(A), 71VNXVF1 38dB(A), 100VN(S)XVF2 44dB(A), 125VN(S)XVF 45dB(A), 140VN(S)XVF 47dB(A)  
Air flow: 40ZMXVF/50ZMXVF 13m³/min, 60ZMXVF 20m³/min, 71VNXVF1 24m³/min, 100VN(S)XVF2 36m³/min, 125VN(S)XVF 39m³/min, 140VN(S)XVF 48m³/min

### NOTES:

The data are measured under the following conditions(ISO-T1).  
Cooling:Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating:Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.  
\*1 : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.  
\*2 : The values are for one indoor unit operation.  
\*3 : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 100Pa.  
\*4 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter				
		FDUM71VNXPVF	FDUM100VNXPVF	FDUM125VNXPVF	FDUM140VNXPVF1	FDUM140VNXXTVF
		Twin				Triple
Indoor unit		FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM50VF
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min-Max)	kW	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min-Max)	kW	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 18.0 )
Power consumption	Cooling/Heating kW	2.01 / 1.91	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69
EER/COP	Cooling/Heating	3.53 / 4.19	3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41
Inrush current	A	5	5	5	5	5
Max. current		17	24	26	26	26
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	65 / 65
	Outdoor	Cooling/Heating	66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1 **2	Indoor*2	Cooling (Hi/Me/Lo)	39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25
	Outdoor	Cooling/Heating	39 / 29 / 26	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25
Air flow **2	Indoor*2	Cooling (Hi/Me/Lo)	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10
	Outdoor	Cooling/Heating	10 / 9 / 8	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10
External static pressure*3	Pa	Standard:35 Max:100				
Exterior dimensions	Indoor	280 x 750 x 635		280 x 950 x 635		280 x 750 x 635
	Outdoor	750 x 880(+88) x 340		1,300 x 970 x 370		
Net weight	Indoor	29		34		29
	Outdoor	60		105		
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length	m	Max.50		Max.100		
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C -15~43**4				
	Heating	°C -20~20				
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E				

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter			
		FDUM100VXSPVF	FDUM125VXSPVF	FDUM140VXSPVF1	FDUM140VXSTVF
		Twin			Triple
Indoor unit		FDUM50VF	FDUM60VF	FDUM71VF1	FDUM50VF
Outdoor unit		FDC100VVSX	FDC125VVSX	FDC140VVSX	FDC140VVSX
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min-Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min-Max)	kW	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption	Cooling/Heating kW	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69
EER/COP	Cooling/Heating	3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41
Inrush current	A	5	5	5	5
Max. current		15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	65 / 65
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72
Sound pressure level*1 **2	Indoor*2	Cooling (Hi/Me/Lo)	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25
	Outdoor	Cooling/Heating	32 / 29 / 26	31 / 28 / 25	33 / 29 / 25
Air flow **2	Indoor*2	Cooling (Hi/Me/Lo)	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10
	Outdoor	Cooling/Heating	10 / 9 / 8	15 / 13 / 10	19 / 15 / 10
External static pressure*3	Pa	Standard:35 Max:100			
Exterior dimensions	Indoor	280 x 750 x 635		280 x 950 x 635	
	Outdoor			1,300 x 970 x 370	
Net weight	Indoor	29		34	
	Outdoor			105	
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length	m	Max.100			
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C -15~43**4			
	Heating	°C -20~20			
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)			
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E			

\*\*2 Powerful-Hi can be selected.

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

Air flow: 71VNXPVF/100VN(S)XPVF 13m<sup>3</sup>/min, 125VN(S)XPVF 20m<sup>3</sup>/min, 140VN(S)XPVF1 24m<sup>3</sup>/min, 140VN(S)XTVF 13m<sup>3</sup>/min

## SPECIFICATIONS

		Micro Inverter					
Set model name		FDUM100VNVF2	FDUM125VNVF	FDUM140VNVF	FDUM100VSF2	FDUM125VSF	FDUM140VSF
Indoor unit		FDUM100VF2	FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)		kW 11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)
Power consumption		Cooling/Heating kW 2.80 / 3.02	3.90 / 3.88	4.95 / 4.69	2.80 / 3.02	3.90 / 3.88	4.95 / 4.69
EER/COP		Cooling/Heating 3.57 / 3.71	3.21 / 3.61	2.83 / 3.41	3.57 / 3.71	3.21 / 3.61	2.83 / 3.41
Inrush current		A 5 5 5 5 5 5 5					
Max. current		24 24 24 15 15 15					
Sound power level*1	Indoor	Cooling/Heating 65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating 70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) dB(A) 38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
		Heating (Hi/Me/Lo) 38 / 36 / 30	40 / 34 / 29	40 / 35 / 30	38 / 36 / 30	40 / 34 / 29	40 / 35 / 30
Air flow ※1	Indoor	Cooling (Hi/Me/Lo) m³/min 28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
		Heating (Hi/Me/Lo) 28 / 25 / 19	32 / 26 / 20	35 / 28 / 22	28 / 25 / 19	32 / 26 / 20	35 / 28 / 22
	Outdoor	Cooling/Heating 75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*3		Pa Standard:60 Max:100					
Exterior dimensions	Indoor	mm 280 x 1,370 x 740					
	Outdoor	HeightxWidthxDepth 845 x 970 x 370					
Net weight	Indoor	kg 54					
	Outdoor	81			83		
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		m Max.50					
Vertical height differences		m Max.30 / Max.15					
Outdoor operating temperature range	Cooling	°C -15~43*4					
	Heating	-20~20					
Air filter		Filter kit : UM-FL3EF (option)					
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E					

The values are for simultaneous Multi operation.

		Micro Inverter				
Set model name		FDUM100VNPVF	FDUM125VNPVF	FDUM140VNPVF1	FDUM140VNTVF	FDUM100VSPVF
Indoor unit		FDUM50VF	FDUM60VF	FDUM71VF1	FDUM50VF	FDUM50VF
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)		kW 11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)
Power consumption		Cooling/Heating kW 2.84 / 3.35	3.87 / 4.07	4.78 / 4.60	4.65 / 5.15	2.84 / 3.35
EER/COP		Cooling/Heating 3.52 / 3.34	3.23 / 3.44	2.93 / 3.48	3.01 / 3.11	3.52 / 3.34
Inrush current		A 5 5 5 5 5				
Max. current		24 24 24 15 15				
Sound power level*1	Indoor*2	Cooling/Heating 60 / 60	60 / 60	65 / 65	60 / 60	60 / 60
	Outdoor	Cooling/Heating 70 / 70	72 / 72	73 / 73	73 / 73	70 / 70
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo) dB(A) 32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26	32 / 29 / 26
		Heating (Hi/Me/Lo) 32 / 29 / 26	31 / 28 / 25	33 / 29 / 25	32 / 29 / 26	32 / 29 / 26
Air flow ※1	Indoor*2	Cooling (Hi/Me/Lo) m³/min 10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	10 / 9 / 8
		Heating (Hi/Me/Lo) 10 / 9 / 8	15 / 13 / 10	19 / 15 / 10	10 / 9 / 8	10 / 9 / 8
	Outdoor	Cooling/Heating 75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*3		Pa Standard:35 Max:100				
Exterior dimensions	Indoor	mm 280 x 750 x 635		280 x 950 x 635		280 x 750 x 635
	Outdoor	HeightxWidthxDepth 845 x 970 x 370				
Net weight	Indoor	kg 29		34		29
	Outdoor	81			83	
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m Max.50				
Vertical height differences		m Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C -15~43*4				
	Heating	-20~20				
Air filter		Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E				

※1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)VF2 44dB(A), 125VN(S)VF 45dB(A), 140VN(S)VF 47dB(A), 100VN(S)PVF 37dB(A), 125VNPVF 36dB(A), 140VNPVF1 38dB(A), 140VNTVF 37dB(A)

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

### NOTES:

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

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

			<b>Micro Inverter</b>								
Set model name			FDUM125VSPVF	FDUM140VSPVF1	FDUM200VSAPVF2	FDUM250VSAPVF	FDUM140VSTVF	FDUM200VSATVF1			
			Twin			Triple					
Indoor unit			FDUM60VF	FDUM71VF1	FDUM100VF2	FDUM125VF	FDUM50VF	FDUM71VF1			
Outdoor unit			FDC125VS	FDC140VS	FDC200VSA	FDC250VSA	FDC140VS	FDC200VSA			
Power source			3 Phase 380-415V, 50Hz / 380V, 60Hz								
Nominal cooling capacity (Min~Max)			kW 12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )			
Nominal heating capacity (Min~Max)			kW 14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )			
Power consumption			Cooling/Heating kW 3.87 / 4.07	4.78 / 4.60	6.51 / 6.04	8.33 / 7.52	4.65 / 5.15	6.46 / 6.15			
EER/COP			Cooling/Heating 3.23 / 3.44	2.93 / 3.48	2.92 / 3.71	2.88 / 3.59	3.01 / 3.11	2.94 / 3.64			
Inrush current			A	5	5	5	5	5			
Max. current				15	15	22	24	15	22		
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	65 / 65	65 / 65	67 / 67	60 / 60	65 / 65		
	Outdoor	Cooling/Heating		72 / 72	73 / 73	72 / 74	73 / 75	73 / 73	72 / 74		
Sound pressure level*1 **2	Indoor*2	Cooling (Hi/Me/Lo)		31 / 28 / 25	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	32 / 29 / 26	33 / 29 / 25		
	Outdoor	Cooling (Hi/Me/Lo)		31 / 28 / 25	33 / 29 / 25	38 / 36 / 30	40 / 34 / 29	32 / 29 / 26	33 / 29 / 25		
Air flow **2	Indoor*2	Cooling/Heating	m³/min	50 / 51	51 / 51	58 / 59	59 / 62	51 / 51	58 / 59		
		Cooling (Hi/Me/Lo)		15 / 13 / 10	19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	10 / 9 / 8	19 / 15 / 10		
	Heating (Hi/Me/Lo)	15 / 13 / 10		19 / 15 / 10	28 / 25 / 19	32 / 26 / 20	10 / 9 / 8	19 / 15 / 10			
	Outdoor	Cooling/Heating		75 / 73	75 / 73	135 / 135	143 / 151	75 / 73	135 / 135		
External static pressure*3			Pa	Standard:35 Max:100	Standard:60 Max:100	Standard:35 Max:100	Standard:35 Max:100	Standard:35 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635		280 x 1,370 x 740		280 x 750 x 635	280 x 950 x 635		
	Outdoor			845 x 970 x 370		1,300 x 970 x 370		1,505 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	
Net weight	Indoor		kg	34		54		29	34		
	Outdoor			83		115		143	83	115	
Ref.piping size			Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")	9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.50		Max.70		Max.50	Max.70		
Vertical height differences			Outdoor is higher/lower	m	Max.30 / Max.15						
Outdoor operating temperature range	Cooling	°C	-15~43*4		-15~50*4		-15~43*4		-15~50*4		
	Heating		-20~20		-15~20		-20~20		-15~20		
Air filter			Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)								
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E								

			<b>Standard Inverter</b>							
Set model name			FDUM71VNPVF1	FDUM90VNPVF2	FDUM100VNP1VF2					
Indoor unit			FDUM71VF1	FDUM100VF2	FDUM100VF2					
Outdoor unit			FDC71VNP	FDC90VNP	FDC100VNP					
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz							
Nominal cooling capacity (Min~Max)			kW 7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )					
Nominal heating capacity (Min~Max)			kW 7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )					
Power consumption			Cooling/Heating kW 2.63 / 1.96	2.65 / 2.25	3.00 / 2.93					
EER/COP			Cooling/Heating 2.70 / 3.62	3.40 / 4.00	3.33 / 3.82					
Inrush current			A	5	5					
Max. current				14.5	18.0	22.0				
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	65 / 65				
	Outdoor	Cooling/Heating		67 / 67	69 / 69	70 / 70				
Sound pressure level*1 **2	Indoor	Cooling (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30	38 / 36 / 30				
	Outdoor	Cooling (Hi/Me/Lo)		33 / 29 / 25	38 / 36 / 30	38 / 36 / 30				
Air flow **2	Indoor	Cooling/Heating	m³/min	54 / 54	57 / 55	57 / 61				
		Cooling (Hi/Me/Lo)		19 / 15 / 10	28 / 25 / 19	28 / 25 / 19				
	Heating (Hi/Me/Lo)	19 / 15 / 10		28 / 25 / 19	28 / 25 / 19					
	Outdoor	Cooling/Heating		36 / 36	63 / 49.5	75 / 79				
External static pressure*3			Pa	Standard:35 Max:200	Standard:60 Max:100					
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635		280 x 1,370 x 740				
	Outdoor			640 x 800(+71) x 290		750 x 880(+88) x 340	845 x 970 x 370			
Net weight	Indoor		kg	34		54				
	Outdoor			45		57	70			
Ref.piping size			Liquid/Gas	ømm	6.35(1/4") / 12.7(1/2")		6.35(1/4") / 15.88(5/8")		9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.30						
Vertical height differences			Outdoor is higher/lower	m	Max.20 / Max.20					
Outdoor operating temperature range	Cooling	°C	-15~46*4		-15~20					
	Heating		-15~20							
Air filter			Filter kit : UM-FL2EF / UM-FL3EF (option)							
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-KIT3-E							

\*\*2 Powerful-Hi can be selected.

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

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

# CEILING SUSPENDED FDE



**NEW**



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



Remote control (Option)

Wired

Wireless



RC-EX1A

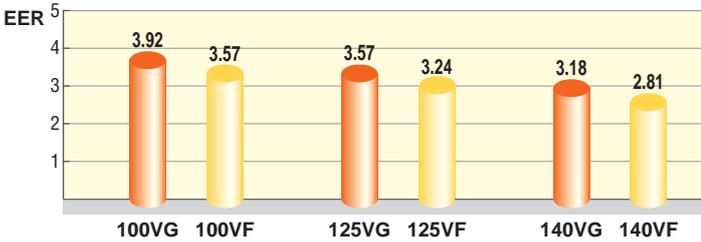
RC-E5

RCH-E3

RCN-E-E

## Point 1 High efficiency

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



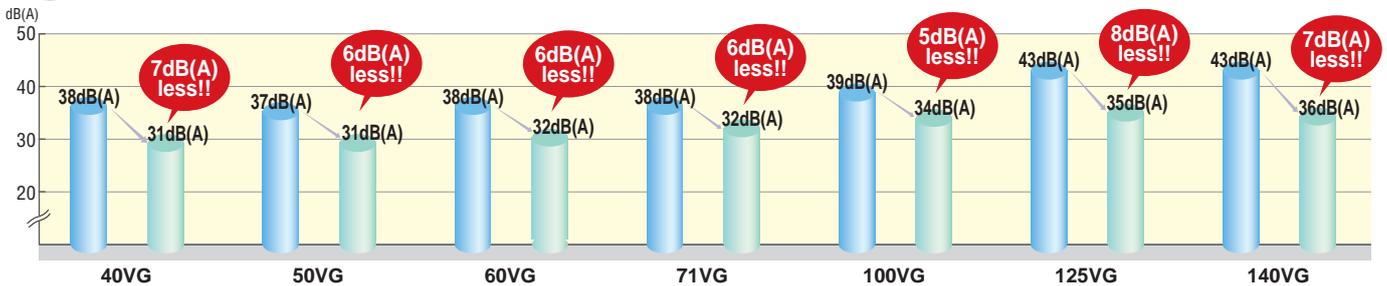
•In case of Hyper INV

## Point 2 Reduction of weight

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

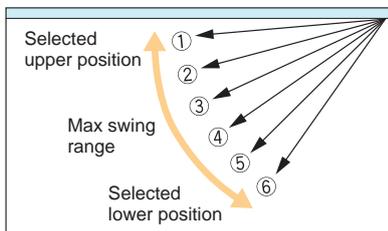
	Current	New	
60-71VG	37	33	4kg less!!
100-125-140VG	49	43	6kg less!!

## Point 3 Reduction of sound pressure level (Lo mode)



## Point 4 Flap control

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



## Point 5 Improved installation workability

### Increased freedom of a piping layout

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



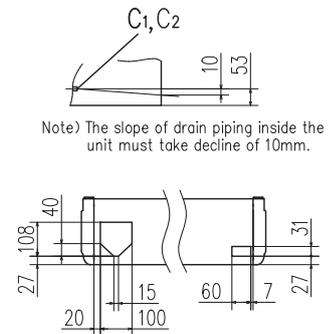
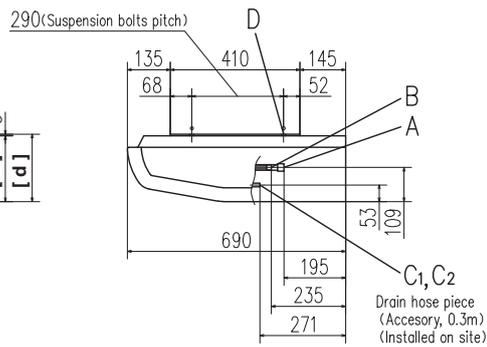
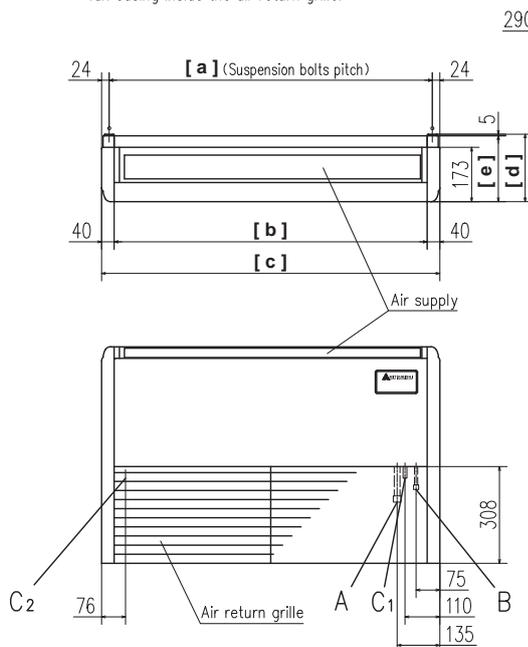
## OUTDOOR UNIT

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

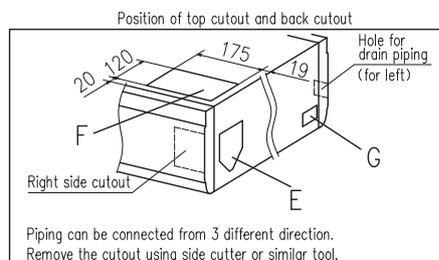
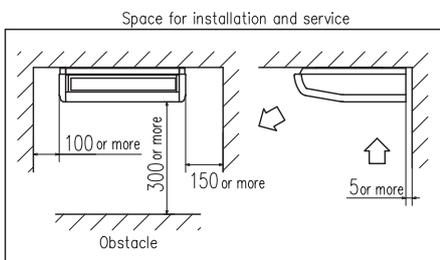
FDC	Standard Inverter		
	71VNP	90VNP	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

## DIMENSIONS (Unit:mm)

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



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



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

## DIMENSIONS TABLE

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

## SPECIFICATIONS

		Hyper Inverter				
Set model name		FDE40ZMXVG	FDE50ZMXVG	FDE60ZMXVG	FDE71VNXVG	FDE100VNXVG
Indoor unit		FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG
Outdoor unit		SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)		kW 4.0 ( 1.1 ~ 4.7 )	5.0 ( 1.1 ~ 5.6 )	5.6 ( 1.1 ~ 6.3 )	7.1 ( 3.2 ~ 8.0 )	10.0 ( 4.0 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW 4.5 ( 0.6 ~ 5.4 )	5.4 ( 0.6 ~ 6.3 )	6.7 ( 0.6 ~ 7.1 )	8.0 ( 3.6 ~ 9.0 )	11.2 ( 4.0 ~ 12.5 )
Power consumption		kW 1.02 / 1.10	1.52 / 1.46	1.75 / 1.86	2.11 / 2.11	2.55 / 2.68
EER/COP		Cooling/Heating 3.92 / 4.09	3.29 / 3.70	3.20 / 3.60	3.36 / 3.79	3.92 / 4.18
Inrush current		A 5	5	5	5	5
Max. current		12	15	15	17	24
Sound power level*1	Indoor	Cooling/Heating 60 / 60	60 / 60	60 / 60	60 / 60	64 / 64
	Outdoor	Cooling/Heating 63 / 63	63 / 63	64 / 64	66 / 66	70 / 70
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) dB(A) 38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34
		Heating (Hi/Me/Lo) 38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34
	Outdoor	Cooling/Heating 50 / 50	54 / 50	54 / 54	51 / 48	48 / 50
		Cooling (Hi/Me/Lo) m³/min 10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5
Air flow ※1	Indoor	Heating (Hi/Me/Lo) 10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5
		Outdoor	Cooling/Heating 36 / 33	40 / 33	41.5 / 39	60 / 50
Exterior dimensions	Indoor	HeightxWidthxDepth mm 210 x 1,070 x 690	210 x 1,320 x 690		250 x 1,620 x 690	
	Outdoor	640 x 800(+71) x 290	750 x 880(+88) x 340		1,300 x 970 x 370	
Net weight	Indoor	kg 28	33		43	
	Outdoor	45	60		105	
Ref.piping size	Liquid/Gas	ømm 6.35(1/4") / 12.7(1/2")		9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length		m Max.30		Max.50		Max.100
Vertical height differences	Outdoor is higher/lower	m Max.20 / Max.20		Max.30 / Max.15		
Outdoor operating temperature range	Cooling	°C -15~43*3				
	Heating	-15~20		-20~20		
Air filter, Q'ty		Pocket Plastic net x2(Washable)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

		Hyper Inverter				
Set model name		FDE125VNXVG	FDE140VNXVG	FDE100VSXVG	FDE125VSXVG	FDE140VSXVG
Indoor unit		FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG
Outdoor unit		FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)		kW 12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 16.0 )
Nominal heating capacity (Min~Max)		kW 14.0 ( 4.0 ~ 17.0 )	16.0 ( 4.0 ~ 18.0 )	11.2 ( 4.0 ~ 16.0 )	14.0 ( 4.0 ~ 18.0 )	16.0 ( 4.0 ~ 20.0 )
Power consumption		kW 3.50 / 3.77	4.40 / 4.69	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69
EER/COP		Cooling/Heating 3.57 / 3.71	3.18 / 3.41	3.92 / 4.18	3.57 / 3.71	3.18 / 3.41
Inrush current		A 5	5	5	5	5
Max. current		26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating 64 / 64	65 / 65	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating 70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo) dB(A) 45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36
		Heating (Hi/Me/Lo) 45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36
	Outdoor	Cooling/Heating 48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
		Cooling (Hi/Me/Lo) m³/min 29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18
Air flow ※1	Indoor	Heating (Hi/Me/Lo) 29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18
		Outdoor	Cooling/Heating 100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth mm 250 x 1,620 x 690	1,300 x 970 x 370			
	Outdoor					
Net weight	Indoor	kg 43	105			
	Outdoor					
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length		m Max.100				
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15				
Outdoor operating temperature range	Cooling	°C -15~43*3				
	Heating	-20~20				
Air filter, Q'ty		Pocket Plastic net x2(Washable)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

※1 Powerful-Hi can be selected.

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

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter				
		FDE71VNXPVG	FDE100VNXPVG	FDE125VNXPVG	FDE140VNXPVG	FDE140VNXTVG
		Twin				Triple
Indoor unit		FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE50VG
Outdoor unit		FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min-Max)		kW 7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min-Max)		kW 8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating kW 2.05 / 2.35	3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP		Cooling/Heating 3.46 / 3.40	3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current		A	5	5	5	5
Max. current			17	24	26	26
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor		66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1 *2	Indoor*2	Cooling (Hi/Me/Lo)	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
		Heating (Hi/Me/Lo)	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
	Outdoor	Cooling/Heating	51 / 48	48 / 50	48 / 50	49 / 52
		Cooling/Heating	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
Air flow *2	Indoor*2	Cooling (Hi/Me/Lo)	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
		Heating (Hi/Me/Lo)	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
	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	°C	-15~43*3			
	Heating		-20~20			
Air filter, Q'ty		Pocket plastic net x 2(Washable)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

The values are for simultaneous Multi operation.

Set model name		Hyper Inverter				
		FDE100VSXPVG	FDE125VSXPVG	FDE140VSXPVG	FDE140VSXTVG	
		Twin			Triple	
Indoor unit		FDE50VG	FDE60VG	FDE71VG	FDE50VG	
Outdoor unit		FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX	
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min-Max)		kW 10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min-Max)		kW 11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	16.0 (4.0 ~ 20.0)	
Power consumption		Cooling/Heating kW 3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53	
EER/COP		Cooling/Heating 3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53	
Inrush current		A	5	5	5	
Max. current			15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	
	Outdoor		70 / 70	70 / 70	72 / 72	
Sound pressure level*1 *2	Indoor*2	Cooling (Hi/Me/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	
		Heating (Hi/Me/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	
		Cooling/Heating	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
Air flow *2	Indoor*2	Cooling (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
		Heating (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm 210 x 1,070 x 690		210 x 1,320 x 690	
	Outdoor		1,300 x 970 x 370			
Net weight	Indoor		kg 28		33	
	Outdoor		105		28	
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length		m	Max.100			
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15			
Outdoor operating temperature range	Cooling	°C	-15~43*3			
	Heating		-20~20			
Air filter, Q'ty		Pocket plastic net x 2(Washable)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

\*2 Powerful-Hi can be selected.

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

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

## SPECIFICATIONS

Set model name		Micro Inverter							
		FDE100VNVG	FDE125VNVG	FDE140VNVG	FDE100VSVG	FDE125VSVG	FDE140VSVG		
Indoor unit		FDE100VG	FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG		
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS		
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	
Nominal heating capacity (Min~Max)		kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	
Power consumption		kW	2.85 / 2.90	4.45 / 4.08	5.80 / 4.92	2.85 / 2.90	4.45 / 4.08	5.80 / 4.92	
EER/COP			3.51 / 3.86	2.81 / 3.43	2.41 / 3.25	3.51 / 3.86	2.81 / 3.43	2.41 / 3.25	
Inrush current		A	5	5	5	5	5	5	
Max. current			24	24	24	15	15	15	
Sound power level*1	Indoor	Cooling/Heating	64 / 64	64 / 64	65 / 65	64 / 64	64 / 64	65 / 65	
	Outdoor	Cooling/Heating	70 / 70	72 / 72	73 / 73	70 / 70	72 / 72	73 / 73	
Sound pressure level*1 ※1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36
		Heating (Hi/Me/Lo)		43 / 38 / 34	45 / 40 / 35	45 / 40 / 36	43 / 38 / 34	45 / 40 / 35	45 / 40 / 36
	Outdoor	Cooling/Heating	49 / 49	50 / 51	51 / 51	49 / 49	50 / 51	51 / 51	
		Indoor	Cooling (Hi/Me/Lo)	m³/min	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17
Outdoor	Heating (Hi/Me/Lo)	26 / 21 / 16.5	29 / 23 / 17		29 / 23 / 18	26 / 21 / 16.5	29 / 23 / 17	29 / 23 / 18	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690				845 x 970 x 370	
	Outdoor			43					
Net weight	Indoor	kg	81				83		
	Outdoor								
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length		m	Max.50						
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15						
Outdoor operating temperature range	Cooling	°C	-15~43*3						
	Heating		-20~20						
Air filter, Q'ty			Pocket Plastic net x2(Washable)						
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E						

The values are for simultaneous Multi operation.

Set model name		Micro Inverter							
		FDE100VNPVG	FDE125VNPVG	FDE140VNPVG	FDE140VNTVG	FDE100VSPVG	FDE125VSPVG		
Indoor unit		FDE50VG	FDE60VG	FDE71VG	FDE50VG	FDE50VG	FDE60VG		
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS	FDC125VS		
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 14.5)	14.0 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	
Nominal heating capacity (Min~Max)		kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	16.0 (4.0 ~ 16.5)	16.0 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	
Power consumption		kW	3.12 / 3.49	4.16 / 3.80	4.87 / 4.59	4.88 / 4.57	3.12 / 3.49	4.16 / 3.80	
EER/COP			3.21 / 3.21	3.00 / 3.68	2.87 / 3.49	2.87 / 3.50	3.21 / 3.21	3.00 / 3.68	
Inrush current		A	5	5	5	5	5	5	
Max. current			24	24	24	24	15	15	
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60	
	Outdoor	Cooling/Heating	70 / 70	72 / 72	73 / 73	73 / 73	70 / 70	72 / 72	
Sound pressure level*1 ※1	Indoor*2	Cooling (Hi/Me/Lo)	dB(A)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32
		Heating (Hi/Me/Lo)		38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	38 / 36 / 31	38 / 36 / 31	41 / 37 / 32
	Outdoor	Cooling/Heating	49 / 49	50 / 51	51 / 51	51 / 51	49 / 49	50 / 51	
		Indoor*2	Cooling (Hi/Me/Lo)	m³/min	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	10 / 9 / 7	10 / 9 / 7
Outdoor	Heating (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10		16 / 13 / 10	10 / 9 / 7	10 / 9 / 7	16 / 13 / 10	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690		210 x 1,320 x 690
	Outdoor			845 x 970 x 370					
Net weight	Indoor	kg	28	33		28		33	
	Outdoor		81				83		
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length		m	Max. 50						
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15						
Outdoor operating temperature range	Cooling	°C	-15~43*3						
	Heating		-20~20						
Air filter, Q'ty			Pocket plastic net x 2(Washable)						
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E						

※1 Powerful-Hi can be selected.

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

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter				
		FDE140VSPVG	FDE200VSAPVG	FDE250VSAPVG	FDE140VSTVG	FDE200VSATVG
Indoor unit		FDE71VG	FDE100VG	FDE125VG	FDE50VG	FDE71VG
Outdoor unit		FDC140VS	FDC200VSA	FDC250VSA	FDC140VS	FDC200VSA
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)		kW 14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )
Nominal heating capacity (Min~Max)		kW 16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )
Power consumption		Cooling/Heating kW 4.87 / 4.59	6.34 / 6.10	8.52 / 7.54	4.88 / 4.57	6.33 / 5.94
EER/COP		Cooling/Heating 2.87 / 3.49	3.00 / 3.67	2.82 / 3.58	2.87 / 3.50	3.00 / 3.77
Inrush current		A	5	5	5	5
Max. current			15	20	21	15
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	64 / 64	64 / 64	60 / 60
	Outdoor		Cooling/Heating	73 / 73	72 / 74	73 / 75
Sound pressure level*1 **2	Indoor*2	Cooling (Hi/Me/Lo)	41 / 37 / 32	43 / 38 / 44	45 / 40 / 35	38 / 36 / 31
	Outdoor		Heating (Hi/Me/Lo)	41 / 37 / 32	43 / 38 / 44	45 / 40 / 35
Air flow **2	Indoor*2	Cooling (Hi/Me/Lo)	16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17	10 / 9 / 7
	Outdoor		Heating (Hi/Me/Lo)	16 / 13 / 10	26 / 21 / 16.5	29 / 23 / 17
Exterior dimensions		HeightxWidthxDepth	mm 210 x 1,320 x 690	250 x 1,620 x 690	210 x 1,070 x 690	210 x 1,320 x 690
Net weight		kg	33	43	28	33
Ref.piping size		Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.50	Max.70	Max.50	Max.70
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15			
Outdoor operating temperature range		Cooling	°C -15~-43*3	-15~-50*3	-15~-43*3	-15~-50*3
		Heating	-20~-20	-15~-20	-20~-20	-15~-20
Air filter, Q'ty		Pocket plastic net x 2(Washable)				
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E				

The values are for simultaneous Multi operation.(except Standard Inverter)

Set model name		Micro Inverter		Standard Inverter		
		FDE200VSADVG	FDE250VSADVG	FDE71VNPVG	FDE90VNPVG	FDE100VNP1VG
Indoor unit		FDE50VG	FDE60VG	FDE71VG	FDE100VG	FDE100VG
Outdoor unit		FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP	FDC100VNP
Power source		3 Phase 380-415V, 50Hz / 380V, 60Hz		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)		kW 19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)		kW 22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption		Cooling/Heating kW 6.90 / 7.10	8.00 / 7.02	2.50 / 1.96	2.75 / 2.22	2.66 / 2.94
EER/COP		Cooling/Heating 2.75 / 3.15	3.00 / 3.85	2.84 / 3.62	3.27 / 4.05	3.76 / 3.81
Inrush current		A	5	5	5	5
Max. current			20	21	14.5	18.0
Sound power level*1	Indoor*2	Cooling/Heating	60 / 60	60 / 60	60 / 60	64 / 64
	Outdoor		Cooling/Heating	72 / 74	73 / 75	67 / 67
Sound pressure level*1 **2	Indoor*2	Cooling (Hi/Me/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32	43 / 38 / 34
	Outdoor		Heating (Hi/Me/Lo)	38 / 36 / 31	41 / 37 / 32	41 / 37 / 32
Air flow **2	Indoor*2	Cooling (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10	26 / 21 / 16.5
	Outdoor		Heating (Hi/Me/Lo)	10 / 9 / 7	16 / 13 / 10	16 / 13 / 10
Exterior dimensions		HeightxWidthxDepth	mm 210 x 1,070 x 690	210 x 1,320 x 690	210 x 1,320 x 690	250 x 1,620 x 690
Net weight		kg	28	33	33	43
Ref.piping size		Liquid/Gas	ømm 9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")
Refrigerant line (one way) length		m	Max.70		Max.30	
Vertical height differences		Outdoor is higher/lower	m Max.30 / Max.15		Max.20 / Max.20	
Outdoor operating temperature range		Cooling	°C -15~-50*3		-15~-46*3	
		Heating	-15~-20		-15~-20	
Air filter, Q'ty		Pocket plastic net x 2(Washable)		Pocket Plastic net x2(Washable)		
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E		wired:RC-EX1A, RC-E5, RCH-E3 wireless:RCN-E-E		

\*\*2 Powerful-Hi can be selected.

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

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

# WALL MOUNTED SRK



Only used with Single case.

**SRK 71**



Common to the both case of Single / Multi

**SRK 100**



Only used with Multi System.

**SRK 50•60**

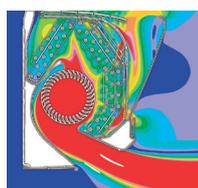
## Point 1 Jet Air Scroll

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

CFD (computational fluid dynamics), used in blade shape design of jet engines, has been applied to the design of air channels in air conditioners to develop the ideal air channel system (air circulation). The airflow of the jets created in this system enable a large volume of air to be blown with minimum power consumption, yet the air flow is uniform, quiet and reaches points a long distance from the blower.



(C) Mitsubishi Aircraft Corporation



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

### Wired remote control (option)



**RC-EX1A**



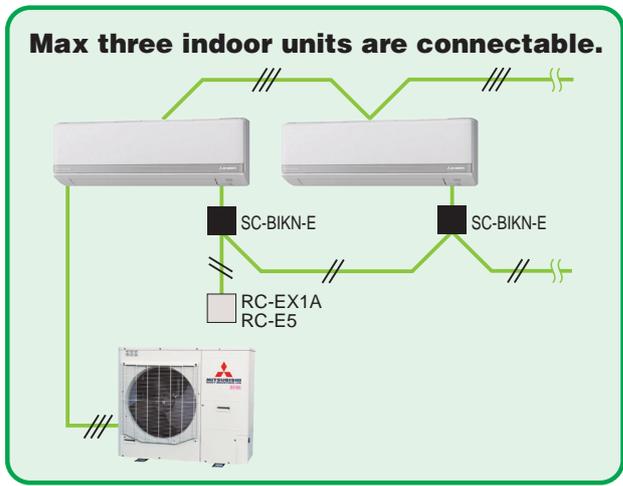
**RC-E5**



**RCH-E3**

## Point 2 Long Reach Air Flow

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

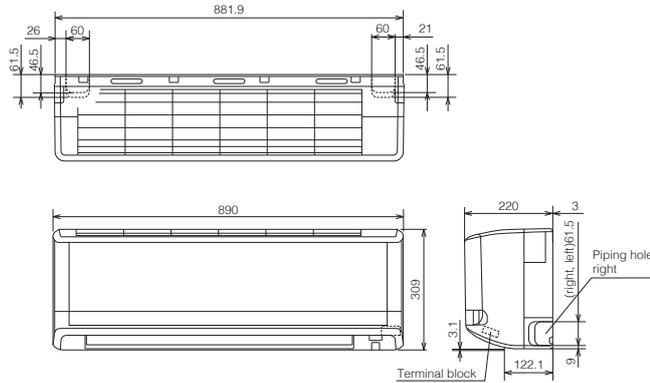


## OUTDOOR UNIT

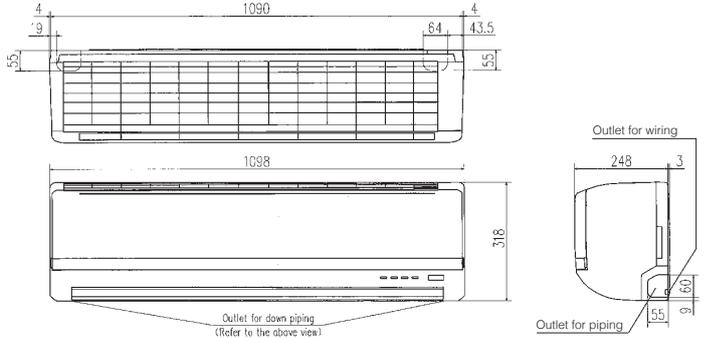
	<i>Hyper Inverter</i>	<i>Micro Inverter</i>	<i>Standard Inverter</i>	
FDC	100~125VN(S)X	100~140VN(S)	71VNP	100VNP
model				
Chargeless	30m	30m	15m	
Height x Width x Depth (mm)	1,300 x 970 x 370	845 x 970 x 370	640 x 800(+71) x 290	845 x 970 x 370

## DIMENSIONS (Unit:mm)

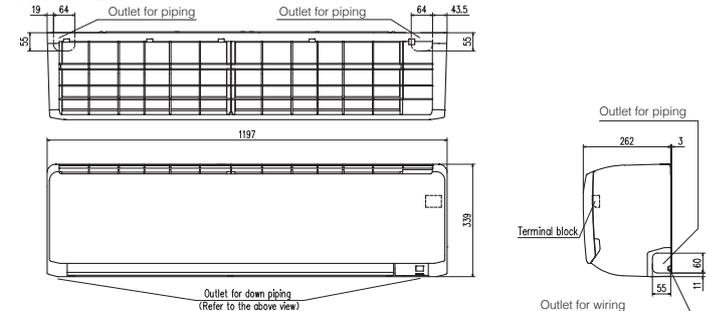
SRK50ZMX-S, 60ZMX-S



SRK71ZM-S



SRK100ZR-S



## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name	<i>Hyper Inverter</i>							
	Twin		Triple	Twin		Triple		
SRK100VNXZMX	SRK125VNXZMX	SRK140VNXZMX	SRK100VXSZMX	SRK125VXSZMX	SRK140VXSZMX			
Indoor unit	SRK50ZMX-S	SRK60ZMX-S	SRK50ZMX-S	SRK60ZMX-S	SRK50ZMX-S			
Outdoor unit	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX		
Power source	1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)	kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)	kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	
Power consumption	Cooling/Heating	kW	2.66 / 2.60	3.60 / 3.48	3.98 / 3.68	2.66 / 2.60	3.60 / 3.48	3.98 / 3.68
EER/COP	Cooling/Heating		3.76 / 4.31	3.47 / 4.02	3.52 / 4.35	3.76 / 4.31	3.47 / 4.02	3.52 / 4.35
Inrush current		A	5	5	5	5	5	5
Max. current			24	26	26	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	60 / 64	64 / 64	60 / 64	60 / 64	64 / 64	60 / 64
	Outdoor	Cooling/Heating	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	47 / 40 / 27 / 25	51 / 41 / 29 / 25	47 / 40 / 27 / 25	47 / 40 / 27 / 25	51 / 41 / 29 / 25	47 / 40 / 27 / 25
		Heating (Hi/Me/Lo/Ulo)	48 / 40 / 33 / 26	48 / 41 / 34 / 27	48 / 40 / 33 / 26	48 / 40 / 33 / 26	48 / 41 / 34 / 27	48 / 40 / 33 / 26
	Outdoor	Cooling/Heating	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
		Cooling/Heating	13.5 / 11 / 8 / 7	14.5 / 12.5 / 8.5 / 7	13.5 / 11 / 8 / 7	13.5 / 11 / 8 / 7	14.5 / 12.5 / 8.5 / 7	13.5 / 11 / 8 / 7
Air flow	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	17 / 14.5 / 10.5 / 8	17.5 / 15 / 11 / 8.5	17 / 14.5 / 10.5 / 8	17 / 14.5 / 10.5 / 8	17.5 / 15 / 11 / 8.5	17 / 14.5 / 10.5 / 8
	Outdoor	Cooling/Heating	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	309 x 890 x 220					
	Outdoor		1,300 x 970 x 370					
Net weight	Indoor		15					
	Outdoor		105					
Ref.piping size	Liquid/Gas	ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		m	Max.100					
Vertical height differences	Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling	°C	-15~43*3					
	Heating		-20~20					
Air filter, Q'ty			Polypropylene net x 2(washable)					
Remote control (option)			wired:RC-EX1A, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E					

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter					
		SRK100VNPZMX	SRK125VNPZMX	SRK140VNTZMX	SRK100VSPZMX	SRK125VSPZMX	SRK140VSTZMX
		Twin		Triple	Twin		Triple
Indoor unit		SRK50ZMX-S	SRK60ZMX-S	SRK50ZMX-S	SRK50ZMX-S	SRK60ZMX-S	SRK50ZMX-S
Outdoor unit		FDC100VN	FDC125VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )	10.0 ( 4.0 ~ 11.2 )	12.5 ( 5.0 ~ 14.0 )	14.0 ( 5.0 ~ 14.5 )
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )	11.2 ( 4.0 ~ 12.5 )	14.0 ( 4.0 ~ 16.0 )	16.0 ( 4.0 ~ 16.5 )
Power consumption	Cooling/Heating	2.72 / 2.86	4.25 / 4.29	4.53 / 4.05	2.72 / 2.86	4.25 / 4.29	4.53 / 4.05
EER/COP	Cooling/Heating	3.68 / 3.92	2.94 / 3.26	3.09 / 3.95	3.68 / 3.92	2.94 / 3.26	3.09 / 3.95
Inrush current		5	5	5	5	5	5
Max. current		24	24	24	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	60 / 64	64 / 64	60 / 64	60 / 64	64 / 64
	Outdoor	Cooling/Heating	70 / 70	72 / 72	73 / 73	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	47 / 40 / 27 / 25	51 / 41 / 29 / 25	47 / 40 / 27 / 25	47 / 40 / 27 / 25	51 / 41 / 29 / 25
	Outdoor	Cooling/Heating	48 / 40 / 33 / 26	48 / 41 / 34 / 27	48 / 40 / 33 / 26	48 / 41 / 34 / 27	48 / 40 / 33 / 26
Air flow	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	13.5 / 11 / 8 / 7	14.5 / 12.5 / 8.5 / 7	13.5 / 11 / 8 / 7	13.5 / 11 / 8 / 7	14.5 / 12.5 / 8.5 / 7
	Outdoor	Cooling/Heating	17 / 14.5 / 10.5 / 8	17.5 / 15 / 11 / 8.5	17 / 14.5 / 10.5 / 8	17 / 14.5 / 10.5 / 8	17.5 / 15 / 11 / 8.5
Exterior dimensions	Indoor	HeightxWidthxDepth	309 x 890 x 220				
	Outdoor	HeightxWidthxDepth	845 x 970 x 370				
Net weight	Indoor		15				
	Outdoor		81				83
Ref.piping size	Liquid/Gas	ømm 9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length		m Max. 50					
Vertical height differences	Outdoor is higher/lower	m Max.30 / Max.15					
Outdoor operating temperature range	Cooling	°C -15~43*3					
	Heating	°C -20~20					
Air filter, Q'ty		Polypropylene net x 2(washable)					
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E					

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

Set model name		Standard Inverter		
		SRK71VNPZM	SRK100VNP1ZR	SRK200VSAPZR Twin
Indoor unit		SRK71ZM-S	SRK100ZR-S	SRK100ZR-S
Outdoor unit		FDC71VNP	FDC100VNP	FDC200VSA
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)	kW	7.1 ( 1.4 ~ 7.1 )	10.0 ( 2.4 ~ 10.5 )	19.0 ( 5.2 ~ 22.4 )
Nominal heating capacity (Min~Max)	kW	7.1 ( 1.0 ~ 7.1 )	11.2 ( 3.2 ~ 11.5 )	22.4 ( 3.3 ~ 25.0 )
Power consumption	Cooling/Heating	2.36 / 1.88	3.09 / 3.28	7.52 / 7.41
EER/COP	Cooling/Heating	3.01 / 3.78	3.24 / 3.41	2.53 / 3.02
Inrush current		5	14.4	5
Max. current		14.5	21	20
Sound power level*1	Indoor*2	Cooling/Heating	60 / 61	63 / 63
	Outdoor	Cooling/Heating	67 / 67	70 / 74
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	49 / 45 / 39 / 26	48 / 45 / 40 / 27
	Outdoor	Cooling/Heating	46 / 43 / 38 / 35	48 / 43 / 38 / 30
Air flow	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	17.5 / 14 / 8	24.5 / 21.3 / 17.6
	Outdoor	Cooling/Heating	19.5 / 15.5 / 14	27.5 / 23.2 / 19.1
Exterior dimensions	Indoor	HeightxWidthxDepth	339 x 1,197 x 262	
	Outdoor	HeightxWidthxDepth	640 x 800(+71) x 290	845 x 970 x 370
Net weight	Indoor		16	16.5
	Outdoor		45	115
Ref.piping size	Liquid/Gas	ømm 6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length		m Max.30		
Vertical height differences	Outdoor is higher/lower	m Max.20 / Max.20		
Outdoor operating temperature range	Cooling	°C -15~46*3		
	Heating	°C -15~20		
Air filter, Q'ty		Polypropylene net x2 (Washable)		
Remote control (option)		wired:RC-EX1A, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E		

### NOTES:

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

# FLOOR STANDING FDF



Wireless remote control (Option)

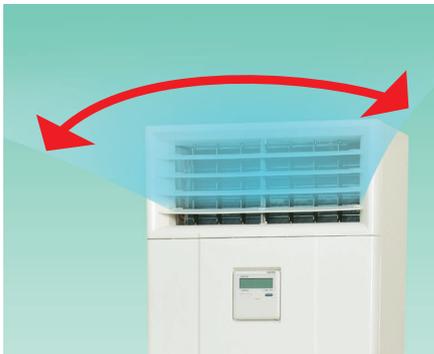


RCN-KIT3-E

FDF 71/100/125/140

## Point 1 Wide and powerful air flow

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



## Point 2 Easy Transportation and Installation workability

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

### Easy Maintenance

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

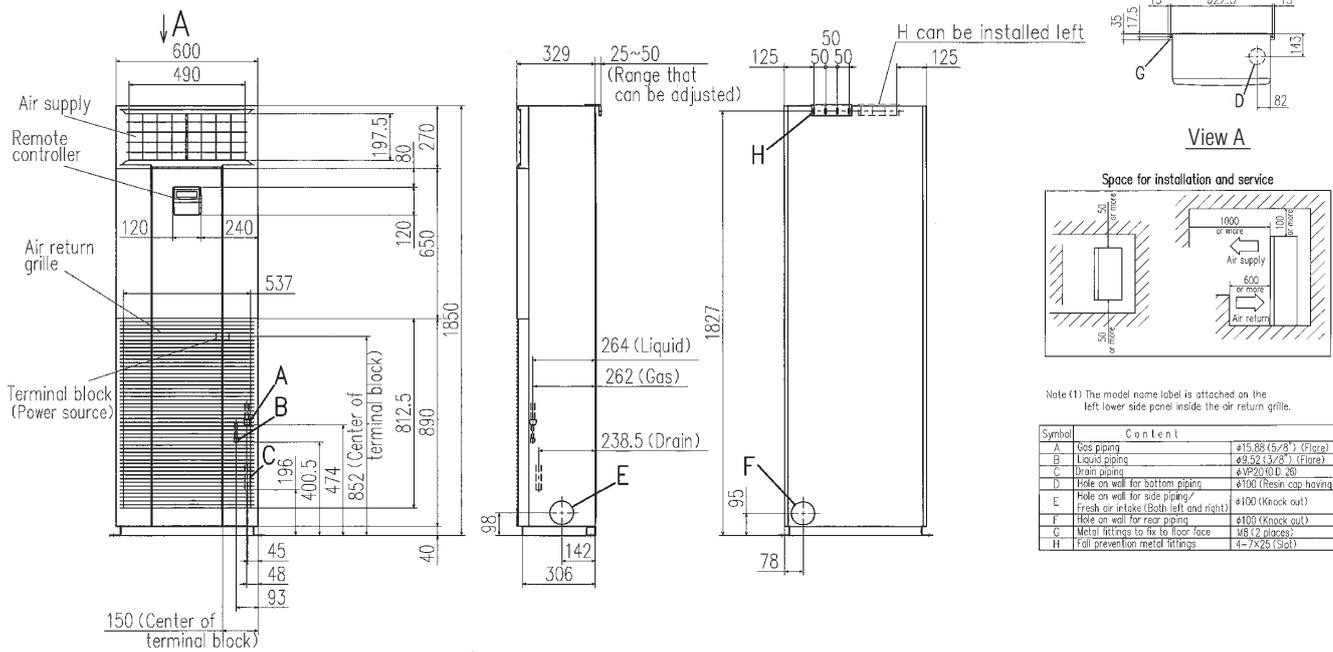


## OUTDOOR UNIT

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

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

## DIMENSIONS(Unit:mm)



## SPECIFICATIONS

			Hyper Inverter							
Set model name			FD F71VNXVD1	FD F100VNXVD2	FD F125VNXVD	FD F140VNXVD	FD F100VSXVD2	FD F125VSXVD	FD F140VSXVD	
Indoor unit			FD F71VD1	FD F100VD2	FD F125VD	FD F140VD	FD F100VD2	FD F125VD	FD F140VD	
Outdoor unit			FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX	
Power source			1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)		kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	
Nominal heating capacity (Min~Max)		kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	
Power consumption		Cooling/Heating	kW	2.21 / 2.21	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP		Cooling/Heating		3.21 / 3.62	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41
Inrush current			A	5	5	5	5	5	5	
Max. current				17	24	26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating		61 / 61	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1 *1	Indoor	Cooling (Hi/Me/Lo)	dB(A)	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44
	Outdoor	Heating (Hi/Me/Lo)		39 / 35 / 33	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44	50 / 48 / 44
Air flow *1	Indoor	Cooling/Heating	m³/min	51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
	Outdoor	Cooling (Hi/Me/Lo)		18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
Exterior dimensions	Indoor	HeightxWidthxDpeth	mm	18 / 16 / 14	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19	26 / 23 / 19
	Outdoor			60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Net weight	Indoor		kg	1,850 x 600 x 320					1,300 x 970 x 370	
	Outdoor			750 x 880(+88) x 340						
Ref.piping size	Liquid/Gas		ømm	49				52		
				60				105		
Refrigerant line (one way) length		m		9.52(3/8") / 15.88(5/8")					Max.100	
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15						
Outdoor operating temperature range	Cooling	°C		-15~43*3						
	Heating			-20~20						
Air filter, Q'ty				Plastic net x 1(washable)						
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)						

\*1 Powerful-Hi can be selected.

Sound pressure level: 71VNXVD1 42dB(A), 100VN(S)XVD2 54dB(A), 125/140VN(S)XVD 54dB(A)

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

### NOTES:

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

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

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

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

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

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name				<i>Hyper Inverter</i>		
				FDF140VNX PVD1	Twin	FDF140VXS PVD1
Indoor unit		FDF71VD1		FDF71VD1		
Outdoor unit		FDC140VNX		FDC140VXS		
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V 60Hz		
Nominal cooling capacity (Min~Max)	kW	14.0 ( 5.0 ~ 16.0 )		14.0 ( 5.0 ~ 16.0 )		
Nominal heating capacity (Min~Max)	kW	16.0 ( 4.0 ~ 18.0 )		16.0 ( 4.0 ~ 20.0 )		
Power consumption	Cooling/Heating kW	4.83 / 4.97		4.83 / 4.97		
EER/COP	Cooling/Heating	2.90 / 3.22		2.90 / 3.22		
Inrush current	A	5		5		
Max. current		26		15		
Sound power level*1	Indoor*2	Cooling/Heating	61 / 61		61 / 61	
	Outdoor	Cooling/Heating	72 / 72		72 / 72	
Sound pressure level*1 **2	Indoor*2	Cooling (Hi/Me/Lo)	39 / 35 / 33		39 / 35 / 33	
		Heating (Hi/Me/Lo)	39 / 35 / 33		39 / 35 / 33	
	Outdoor	Cooling/Heating	49 / 52		49 / 52	
Air flow **2	Indoor*2	Cooling (Hi/Me/Lo)	16 / 14 / 12		16 / 14 / 12	
		Heating (Hi/Me/Lo)	16 / 14 / 12		16 / 14 / 12	
	Outdoor	Cooling/Heating	100 / 100		100 / 100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320		
	Outdoor			1,300 x 970 x 370		
Net weight	Indoor			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			-15~43*3		
	Heating			-20~20		
Air filter, Q'ty			Plastic net x 1(washable)			
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)			

Set model name				<i>Micro Inverter</i>										
				FDF100VNV D2	FDF125VNV D	FDF140VNV D	FDF100VSV D2	FDF125VSV D	FDF140VSV D					
Indoor unit		FDF100VD2		FDF125VD		FDF140VD		FDF100VD2		FDF125VD		FDF140VD		
Outdoor unit		FDC100VN		FDC125VN		FDC140VN		FDC100VS		FDC125VS		FDC140VS		
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz						3 Phase 380-415V, 50Hz / 380V, 60Hz						
Nominal cooling capacity (Min~Max)	kW	10.0 ( 4.0 ~ 11.2 )		12.5 ( 5.0 ~ 14.0 )		14.0 ( 5.0 ~ 14.5 )		10.0 ( 4.0 ~ 11.2 )		12.5 ( 5.0 ~ 14.0 )		14.0 ( 5.0 ~ 14.5 )		
Nominal heating capacity (Min~Max)	kW	11.2 ( 4.0 ~ 12.5 )		14.0 ( 4.0 ~ 16.0 )		16.0 ( 4.0 ~ 16.5 )		11.2 ( 4.0 ~ 12.5 )		14.0 ( 4.0 ~ 16.0 )		16.0 ( 4.0 ~ 16.5 )		
Power consumption	Cooling/Heating kW	3.12 / 3.10		4.40 / 4.36		5.15 / 5.31		3.12 / 3.10		4.40 / 4.36		5.15 / 5.31		
EER/COP	Cooling/Heating	3.21 / 3.61		2.84 / 3.21		2.72 / 3.01		3.21 / 3.61		2.84 / 3.21		2.72 / 3.01		
Inrush current	A	5		5		5		5		5		5		
Max. current		24		24		24		15		15		15		
Sound power level*1	Indoor	Cooling/Heating	65 / 65		73 / 73		73 / 73		65 / 65		73 / 73		73 / 73	
	Outdoor	Cooling/Heating	70 / 70		72 / 72		73 / 73		70 / 70		72 / 72		73 / 73	
Sound pressure level*1 **2	Indoor	Cooling (Hi/Me/Lo)	50 / 48 / 44		50 / 48 / 44		50 / 48 / 44		50 / 48 / 44		50 / 48 / 44		50 / 48 / 44	
		Heating (Hi/Me/Lo)	50 / 48 / 44		50 / 48 / 44		50 / 48 / 44		50 / 48 / 44		50 / 48 / 44		50 / 48 / 44	
Air flow **2	Indoor	Cooling (Hi/Me/Lo)	26 / 23 / 19		26 / 23 / 19		26 / 23 / 19		26 / 23 / 19		26 / 23 / 19		26 / 23 / 19	
		Heating (Hi/Me/Lo)	26 / 23 / 19		26 / 23 / 19		26 / 23 / 19		26 / 23 / 19		26 / 23 / 19		26 / 23 / 19	
	Outdoor	Cooling/Heating	75 / 73		75 / 73		75 / 73		75 / 73		75 / 73		75 / 73	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320										
	Outdoor			845 x 970 x 370										
Net weight	Indoor			52										
	Outdoor			81		83								
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.30 / Max.15										
Outdoor operating temperature range	Cooling			-15~43*3										
	Heating			-20~20										
Air filter, Q'ty			Plastic net x 1(Washable)											
Remote control			wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)											

\*\*2 Powerful-Hi can be selected.

Sound pressure level: 140VN(S)XPVD1 42dB(A), 100VN(S)VD2 54dB(A), 125/140VN(S)VD 54dB(A)

Air flow: 140VN(S)XPVD1 18m<sup>3</sup>/min, 100VN(S)VD2 29m<sup>3</sup>/min, 125/140VN(S)VD 29m<sup>3</sup>/min

## SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name		Micro Inverter			
		fdf140vnpvd1	fdf140vspvd1	fdf200vsapvd2	fdf250vsapvd
Indoor unit		fdf71vd1	fdf71vd1	fdf100vd2	fdf125vd
Outdoor unit		fdc140vn	fdc140vs	fdc200vsa	fdc250vsa
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)	kW	14.0 ( 5.0 ~ 14.5 )	14.0 ( 5.0 ~ 14.5 )	19.0 ( 5.2 ~ 22.4 )	24.0 ( 6.9 ~ 28.0 )
Nominal heating capacity (Min~Max)	kW	16.0 ( 4.0 ~ 16.5 )	16.0 ( 4.0 ~ 16.5 )	22.4 ( 3.3 ~ 25.0 )	27.0 ( 5.5 ~ 31.5 )
Power consumption	Cooling/Heating	5.16 / 5.01	5.16 / 5.01	6.74 / 6.42	9.15 / 8.49
EER/COP	Cooling/Heating	2.71 / 3.19	2.71 / 3.19	2.82 / 3.49	2.62 / 3.18
Inrush current		5	5	5	5
Max. current		24	15	20	21
Sound power level*1	Indoor*2	61 / 61	61 / 61	65 / 65	73 / 73
	Outdoor	73 / 73	73 / 73	72 / 74	73 / 75
Sound pressure level*1 ※1	Indoor*2	39 / 35 / 33	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44
	Outdoor	39 / 35 / 33	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44
Air flow ※1	Indoor*2	16 / 14 / 12	16 / 14 / 12	26 / 23 / 19	26 / 23 / 19
	Outdoor	16 / 14 / 12	16 / 14 / 12	26 / 23 / 19	26 / 23 / 19
Exterior dimensions	Indoor	1,850 x 600 x 320			
	Outdoor	HeightxWidthxDepth	mm	845 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor	49		52	
	Outdoor	81		143	
Ref.piping size	Liquid/Gas	ømm		9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length		m		Max.50	
Vertical height differences	Outdoor is higher/lower	m		Max.30 / Max.15	
Outdoor operating temperature range	Cooling	°C		-15~43*3	
	Heating	°C		-15~50*3	
Air filter, Q'ty		Plastic net x 1(washable)			
Remote control		wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)			

Set model name		Standard Inverter		
		fdf71vnpvd1	fdf90vnpvd2	fdf100vnpvd2
Indoor unit		fdf71vd1	fdf100vd2	fdf100vd2
Outdoor unit		fdc71vnp	fdc90vnp	fdc100vnp
Power source		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)	kW	7.1 ( 1.4 ~ 7.1 )	9.0 ( 1.9 ~ 9.0 )	10.0 ( 2.8 ~ 11.2 )
Nominal heating capacity (Min~Max)	kW	7.1 ( 1.0 ~ 7.1 )	9.0 ( 1.5 ~ 9.0 )	11.2 ( 2.5 ~ 12.5 )
Power consumption	Cooling/Heating	2.63 / 2.08	2.79 / 2.25	3.19 / 3.09
EER/COP	Cooling/Heating	2.70 / 3.41	3.23 / 4.00	3.13 / 3.62
Inrush current		5	5	5
Max. current		14.5	18.0	21.0
Sound power level*1	Indoor	61 / 61	65 / 65	65 / 65
	Outdoor	67 / 67	69 / 69	70 / 70
Sound pressure level*1 ※1	Indoor	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44
	Outdoor	39 / 35 / 33	50 / 48 / 44	50 / 48 / 44
Air flow ※1	Indoor	18 / 16 / 14	26 / 23 / 19	26 / 23 / 19
	Outdoor	18 / 16 / 14	26 / 23 / 19	26 / 23 / 19
Exterior dimensions	Indoor	1,850 x 600 x 320		
	Outdoor	HeightxWidthxDepth	mm	640 x 800(+71) x 290
Net weight	Indoor	49		52
	Outdoor	45		70
Ref.piping size	Liquid/Gas	ømm		6.35(1/4") / 12.7(1/2")
Refrigerant line (one way) length		m		Max.23
Vertical height differences	Outdoor is higher/lower	m		Max.20 / Max.20
Outdoor operating temperature range	Cooling	°C		-15~46*3
	Heating	°C		-15~20
Air filter, Q'ty		Plastic net x1(Washable)		
Remote control		wired:RC-E5 (installed) wireless:RCN-KIT3-E (option)		

※1 Powerful-Hi can be selected.

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

Air flow: 140VN(S)PVD1 18m<sup>3</sup>/min, 200VSAPVD2 29m<sup>3</sup>/min, 250VSAPVD 29m<sup>3</sup>/min, 71VNPVD1 20m<sup>3</sup>/min, 90VNPVD2 29m<sup>3</sup>/min, 100VNP1VD2 29m<sup>3</sup>/min

### NOTES:

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

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

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

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

\*3 : If a cooling operation is conducted when the outdoor air temperature is -5°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.

# BENEFITS SUMMARY

When using RC-EX1A (Remote control), functions with symbol ● are available. However, for RC-E5 (Remote control), functions with ※ are not available.

		FDT	FDTC	FDU	FDUM	FDE	SRK	FDf
								
Economy	<b>Inverter technology</b>	●	●	●	●	●	●	●
	<b>Energy-saving ※</b>	●	●	●	●	●	●	
	<b>Home leave operation ※</b>	●	●	●	●	●	●	
	<b>Set temperature auto return ※</b>	●	●	●	●	●	●	
Comfort	<b>Automatic operation</b>	●	●	●	●	●	●	●
	<b>Silent mode</b>	●	●	●	●	●	●	●
	<b>Draught prevention</b>	●	●			●	●	
	<b>Hi power mode ※</b>	●	●	●	●	●	●	
Air flow	<b>Individual flap control</b>	●	●			●	●	
	<b>Vertical auto swing</b>	●	●			●	●	●
	<b>Ceiling stain prevention</b>	●	●					
	<b>Automatic fan speed</b>	●	●	●	●	●	●	
Timer	<b>Sleep timer</b>	●	●	●	●	●	●	
	<b>Peak-cut timer ※</b>	●	●	●	●	●	●	
	<b>Weekly timer</b>	●	●	●	●	●	●	●
Convenient	<b>Static pressure adjustment</b>			●	●			
	<b>Remote control</b>	● Option						
	<b>Select the language ※</b>	●	●	●	●	●	●	
	<b>Air filter</b>	●	●	Procure locally	● Option	●	●	●
	<b>Filter sign</b>	●	●	●	●	●	●	●
	<b>Outside air intake</b>	●	● Option	●	●			
Others	<b>Self-diagnosis</b>	●	●	●	●	●	●	●
	<b>Drain up</b>	●	●	● *1	●			

\*1 : Except 200 • 250

## Simple setting **REMOTE CONTROL**

Advanced touch screen panel with full dot Liquid Crystal display

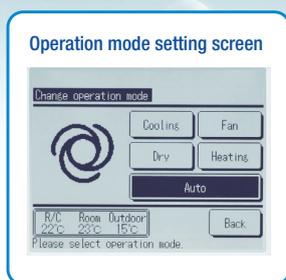
### User friendly

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

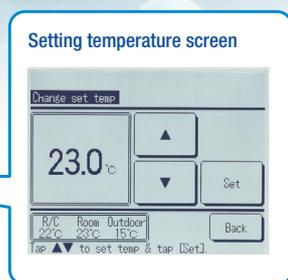
### High level of visibility

- Big LCD with 3.8 inch full dot display
- Back light function
- Multi language display (9 languages)

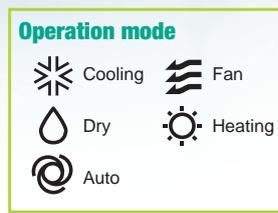
### RC-EX1A (option)



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



You can select the temperature as desired by tapping button.



### Run / Stop

Simple setting by tapping button only

### High power operation

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

### Energy-saving operation

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

## Main functions

### Saving energy

- Sleep timer
- Peak cut timer
- Automatic temperature set back
- Weekly timer
- Set ON/OFF timer by hour
- Set ON/OFF timer by clock

### Comfort

- Individual flap control
- High power operation
- External ventilation ON/OFF
- Warming up operation
- Automatic fan speed
- Temperature increment setting by 0.5°C

### Convenience

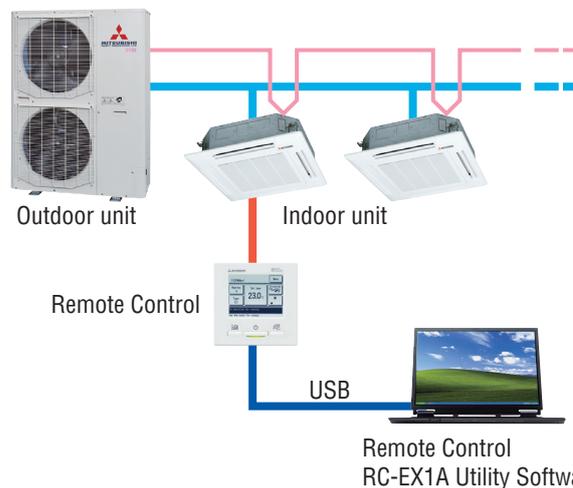
- LCD contrast setting
- Back light setting
- Filter sign
- Control sound
- Outdoor silent mode
- Summer time setting
- Home leave mode
- Indoor & outdoor temperature display
- Heating standby display
- Defrosting operation display
- Auto cooling/heating display
- °C/°F display
- Administrator settings
- Room name setting

### Service

- Error code display
- Operation data display
- Next service date display
- Contact company display
- USB connection (mini-B)

### Remote control RC-EX1A Series Utility Software

By connecting this system to the Remote Control, the Remote Control can be operated from PC.



## Remote Control line up

	indoor unit	remote control
wired	all models	RC-EX1A
		RC-E5
		RCH-E3

	indoor unit	remote control
wireless	FDT	RCN-T-36W-E
	FDTC	RCN-TC-24W-ER
	FDUM, FDU, FDF	RCN-KIT3-E
	FDE	RCN-E-E

## Wired remote control (option)

### RC-E5

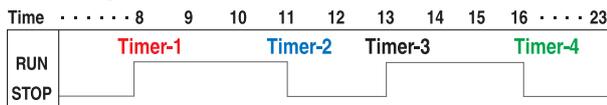


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

#### Weekly timer function as standard

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

#### Timer operation



#### Run hour meters to facilitate maintenance checking

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

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

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



#### Changeable set temperature ranges

RC-E5 allows the upper and lower limits of a set temperature range to be specified separately.

By adjusting a set temperature range, you can ensure energy saving air conditioning by avoiding excessive cooling or heating.

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

## Simple remote control (option)

### RCH-E3 (wired)



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

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

#### Up to 16 units

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

#### AUTO restart

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

## Wireless remote control (option)

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

### RCN-T-36W-E, RCN-TC-24W-ER

### RCN-KIT3-E

### RCN-E-E



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

## Thermistor (option)

### SC-THB-E3

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



# Control System SUPERLINK-II



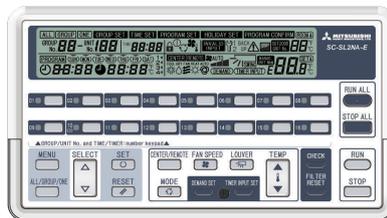
## Central Control

### SC-SL1N-E



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

### SC-SL2NA-E



Centralized control of up to 64 indoor units. It can allow connection with a weekly timer without using any interface.

### SC-SL4-AE/BE



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

## PC windows central control

### SC-WGWNB256-A/B\* SC-WGWNB-A/B

(SC-WGWNB256-B/SC-WGWNB-B are with electric power calculation function)



Production by order

In case of SC-WGWNB256-A/B, 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.

## BMS interface unit

### SC-BGWNA256-A/B\* SC-BGWNA-A/B (BACnet gateway)

(SC-BGWNA256-B/BGWNA-B are with electric power calculation function)



Production by order

In case of SC-BGWNA256-A/B, 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 centrally from a BMS.

In case of SC-BGWNA-B/BGWNA256-B, communication test by qualified person regarding electric cost calculation function is required before commissioning.

### SC-LGWNA-A\* (LonWorks gateway)



Production by order

Up to 96 indoor units (48 indoor unit x 2) are linked as an open network. Centrally controlled through LonWorks.

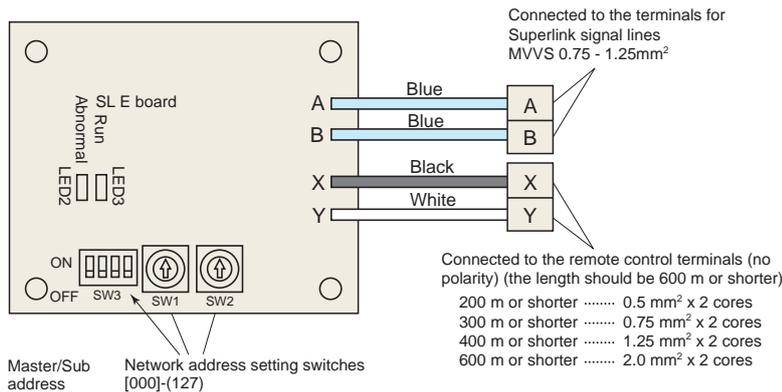
# SUPERLINK E BOARD (SC-ADNA-E)

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

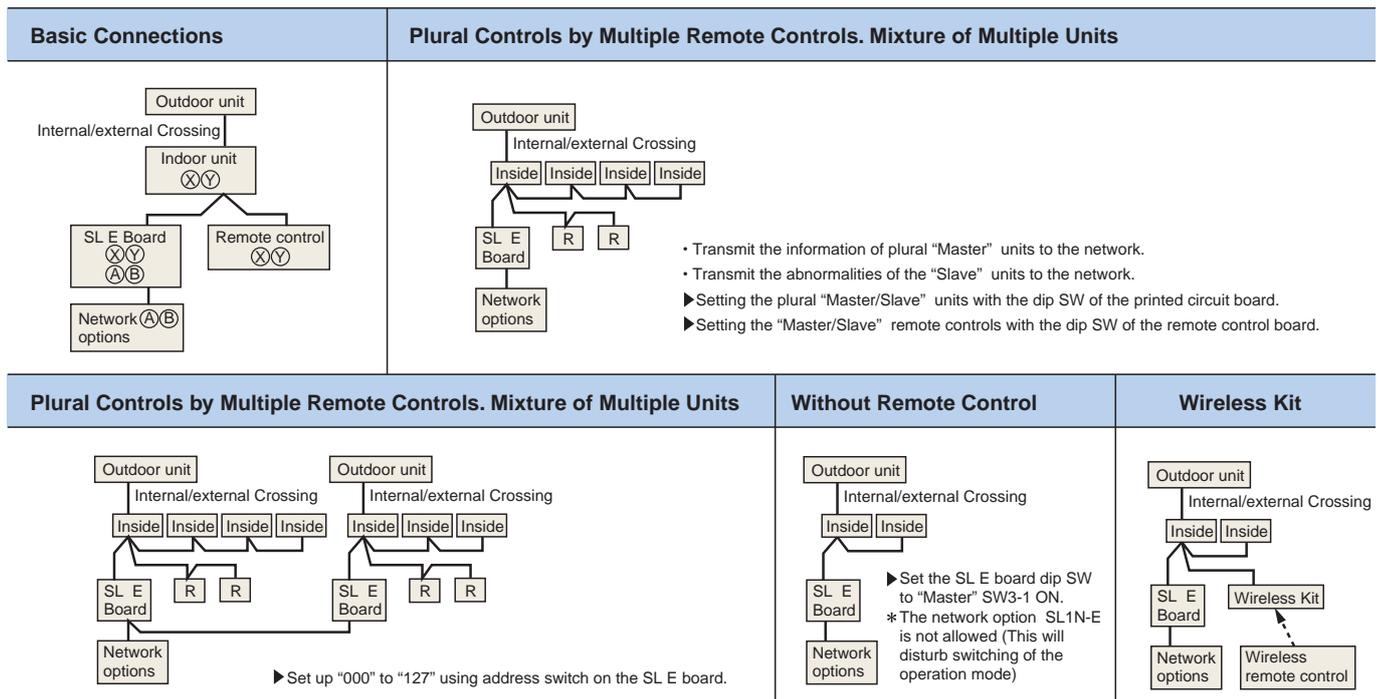
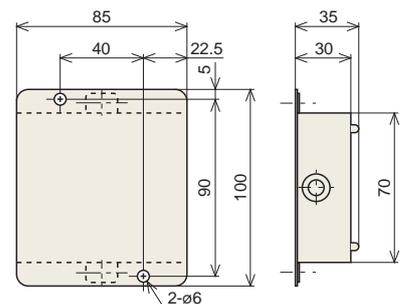
## (1) Functions

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

## (2) Wiring connection diagram

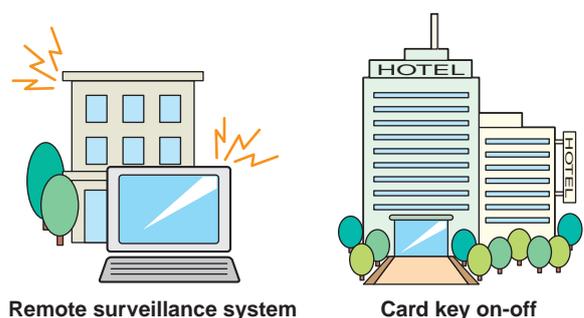


## (3) Metal box dimension (unit:mm)



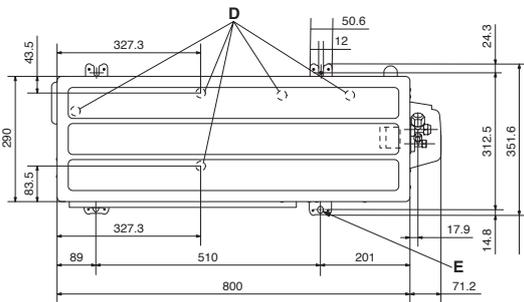
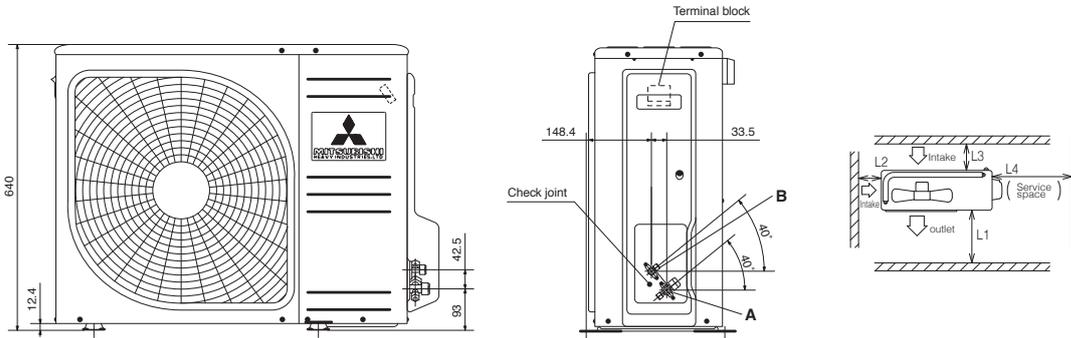
## External switch connection CnT

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



# OUTDOOR UNIT DIMENSIONS (unit:mm)

## SRC40ZMX-S, 50ZMX-S, 60ZMX-S



Examples of installation	1	2	3
L <sub>1</sub>	Open	280	280
L <sub>2</sub>	100	75	Open
L <sub>3</sub>	100	80	80
L <sub>4</sub>	250	Open	250

Mark	Item	
A	Refrigerant gas side pipe connection tap	ø12.7(flare)
B	Refrigerant liquid side pipe connection tap	ø6.35(flare)
D	Drain discharge port	ø20.5x5places
E	Anchor bolt hole	M10x4places

### Notes:

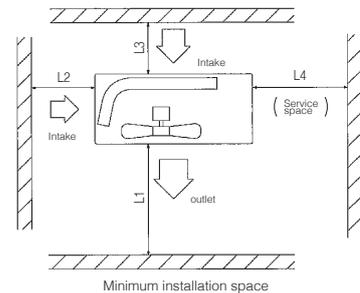
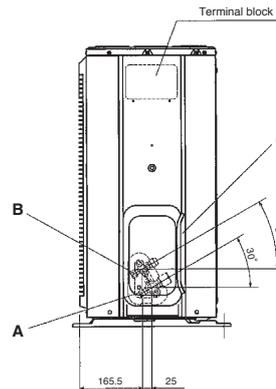
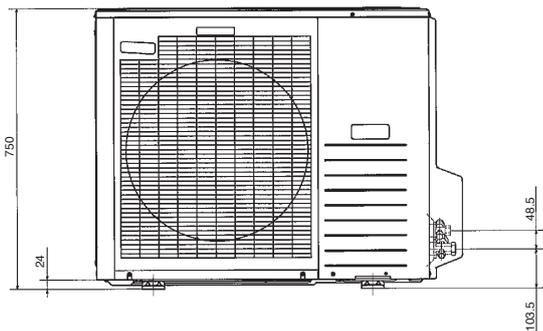
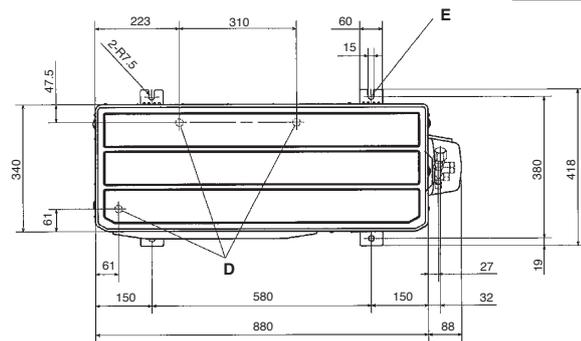
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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

## FDC71VNX

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

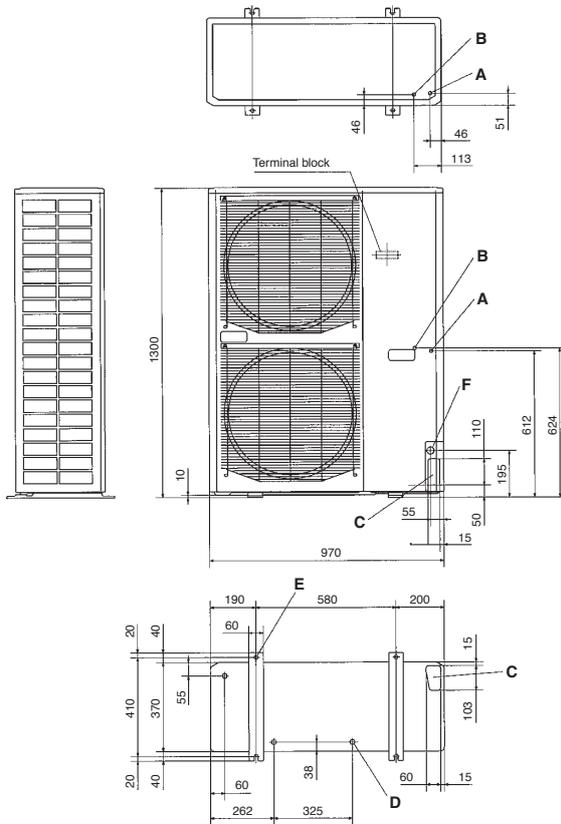
### Notes:

- (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.



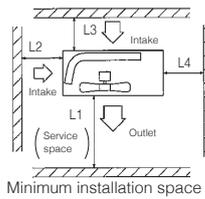
Examples of installation	1	2	3
L <sub>1</sub>	Open	Open	500
L <sub>2</sub>	300	250	Open
L <sub>3</sub>	100	150	100
L <sub>4</sub>	250	250	250

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



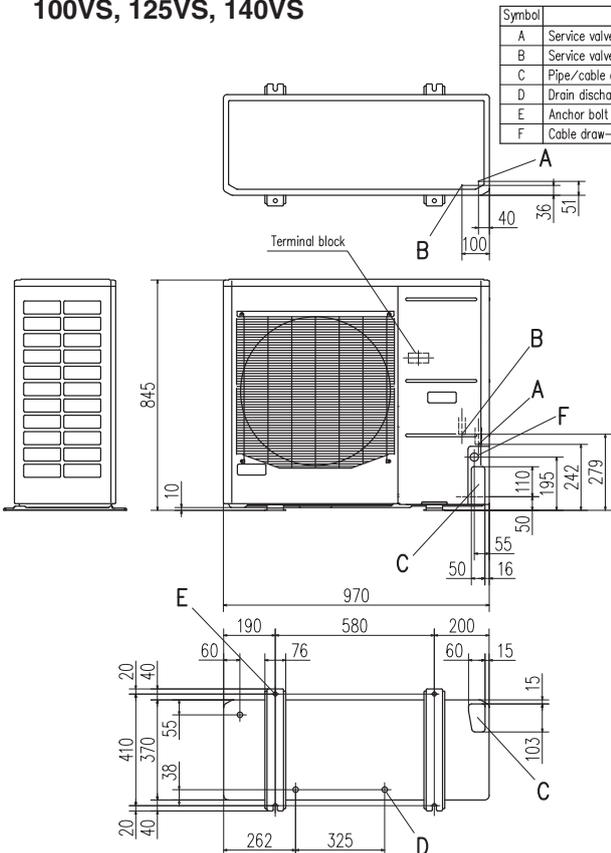
Mark	Item	
A	Service valve connection of the attached connecting pipe(gas side)	ø15.88(5/8"')(Flare)
B	Service valve connection(liquid side)	ø9.52(3/8"')(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ø20x3places
E	Anchor bolt hole	M10x4places
F	Cable draw-out hole	ø30(front) ø45(side) ø50(back)

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



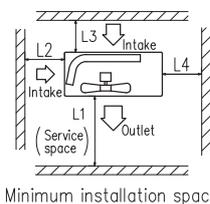
Examples of installation	1	2	3
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

**FDC100VN, 125VN, 140VN 100VS, 125VS, 140VS**



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

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

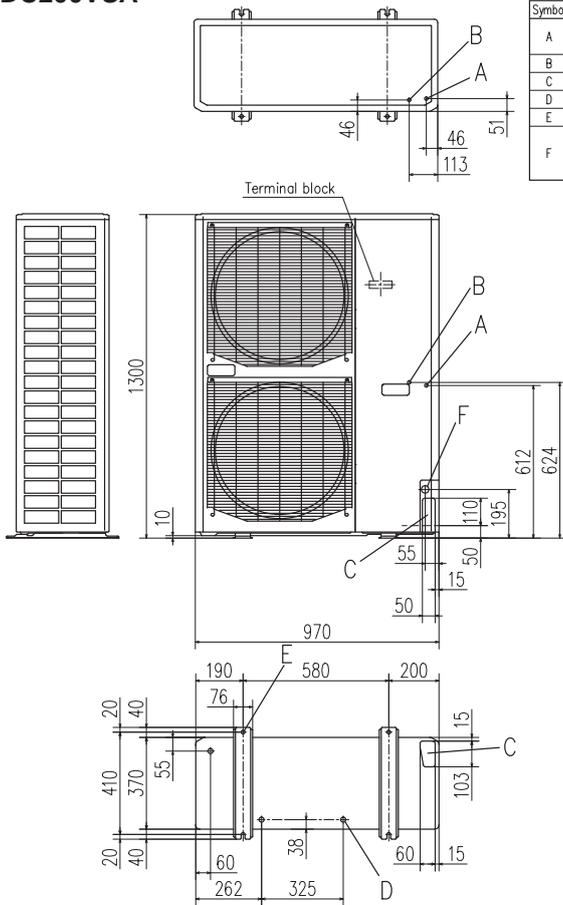


Examples of installation	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

Unit:mm

# OUTDOOR UNIT DIMENSIONS (unit:mm)

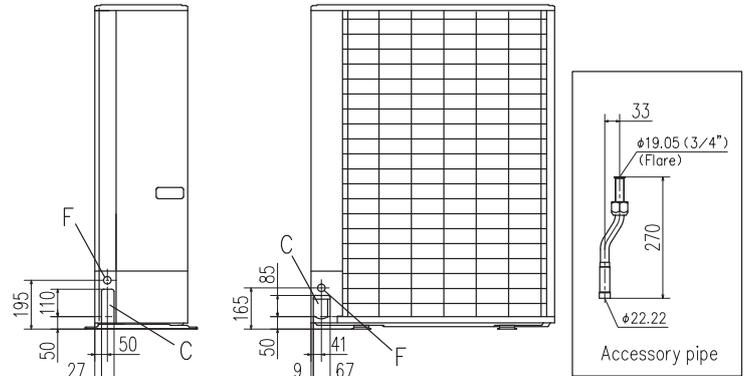
## FDC200VSA



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

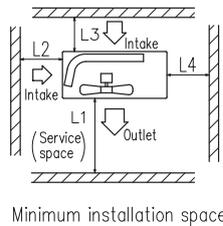
### Notes

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



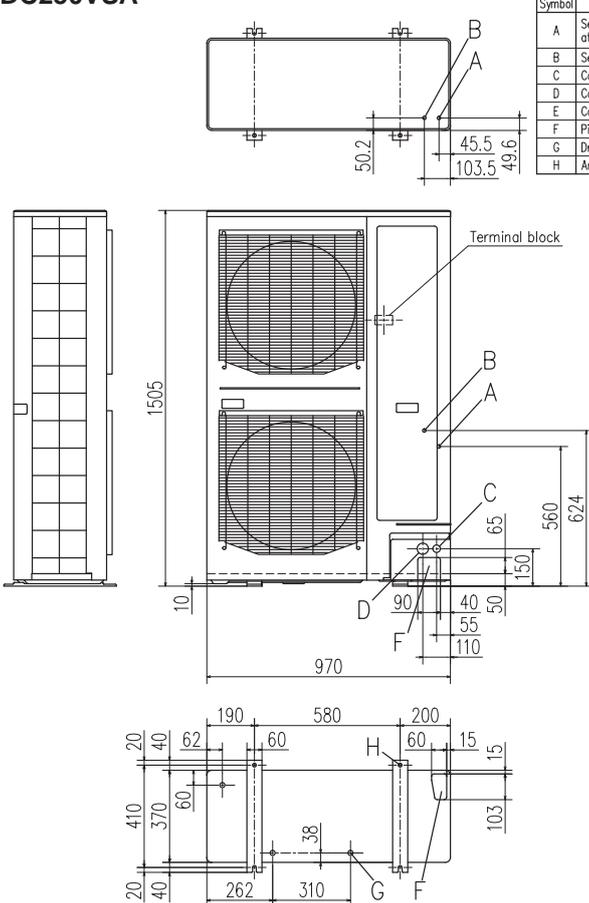
Unit:mm

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



Minimum installation space

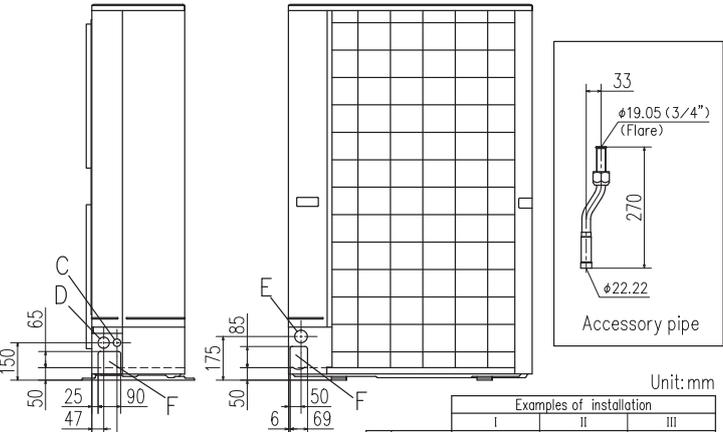
## FDC250VSA



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

### Notes

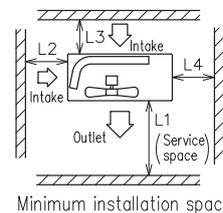
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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



Unit:mm

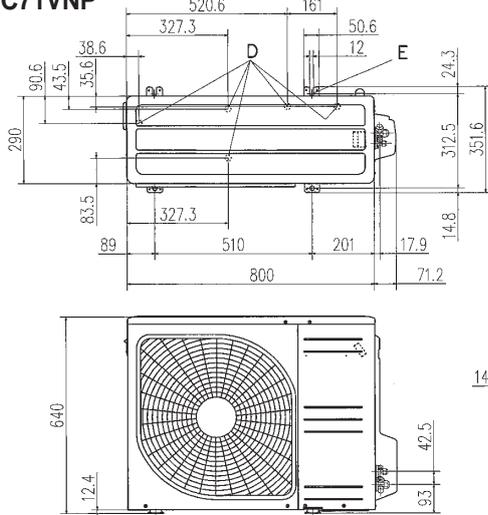
Dimensions	Examples of installation		
	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	250 (5) *1	250 (5) *1	250 (5) *1

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



Minimum installation space

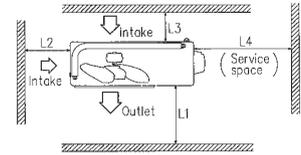
### FDC71VNP



Symbol	Content	
A	Service valve connection (gas side)	φ12.7 (1/2") (Flare)
B	Service valve connection (liquid side)	φ6.35 (1/4") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ20x3places
E	Anchor bolt hole	M10x4places

**Notes**

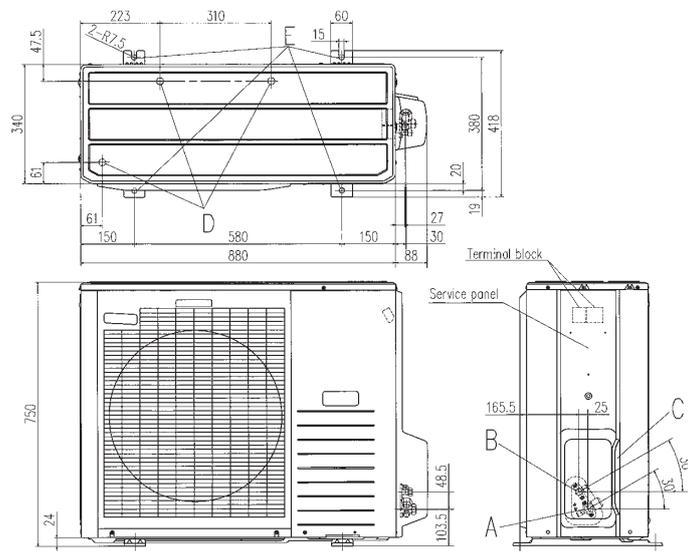
- (1) It must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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



Minimum installation space

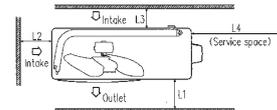
Examples of installation Dimensions	Examples of installation			
	I	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

### FDC90VNP



**Note**

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

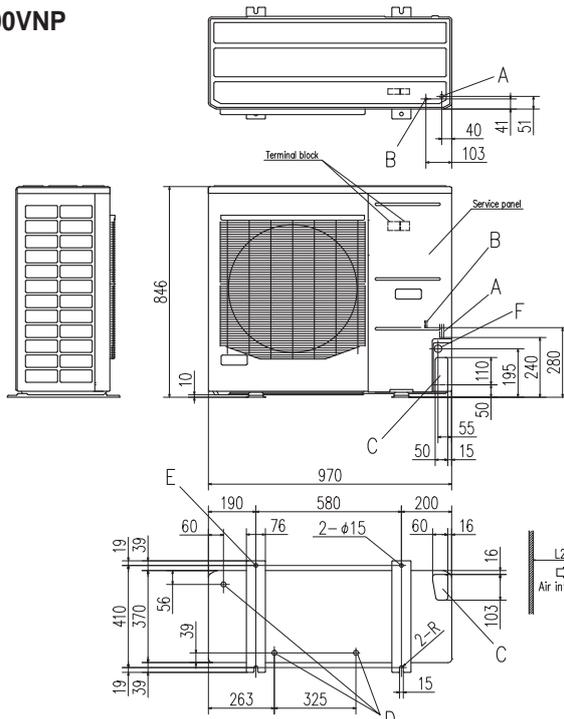


Minimum installation space

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

Symbol	Content	
A	Service valve connection (gas side)	φ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	φ6.35 (1/4") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ20 x 3 places
E	Anchor bolt hole	M10 x 4 places

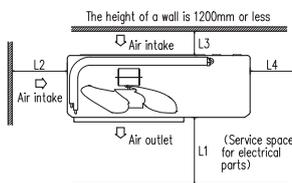
### FDC100VNP



Symbol	Content	
A	Service valve connection (gas side)	φ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	φ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	φ20x3 places
E	Anchor bolt hole	M10x4 places
F	Cable draw-out hole	φ30x3 places

**Notes**

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



Minimum installation space

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

Unit: mm

# ENERGY LABEL [FOR EU/EEA AREA ONLY]

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

## ENERGY LABEL

SEER and SCOP is defined in European regulations listed below.

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

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

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

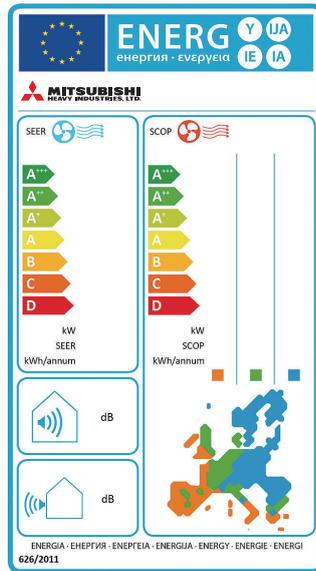
Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

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

SEER - Seasonal Efficiency Ratio (value in cooling)

SCOP - Seasonal Coefficient of Performance (value in heating)

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



## Employment of lead-free solder

**Adapted to RoHS directive**

### RoHS:Restriction of Hazardous substances

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

## Employment of R410A

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

## Excellent Energy Saving

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

Indoor unit	FDT40VF	FDT50VF	FDT60VF	FDT71VF1	FDT100VF2	FDT100VF2	FDT40VFx2	FDT50VFx2	FDT50VFx2
Outdoor unit	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)	A++/A+	A+/A+	A+/A	A+/A+	A+/A	A+/A	A+/A+	A+/A	A+/A
SEER	7.57	6.91	7.69	5.72	5.84	5.79	5.68	5.92	5.88
SCOP (Average climate)	4.16	4.09	3.86	4.09	3.96	3.95	4.10	3.85	3.84
Pdesignc	kW	4.0	5.0	5.6	7.1	10.0	10.0	7.1	10.0
Pdesignh (@-10°C)	kW	4.8	5.1	5.9	6.5	13.5	13.5	7.3	13.1
Annual electricity consumption (cooling/heating)	kWh/a	185/1617	254/1748	255/2139	435/2226	600/4778	605/4782	438/2494	592/4768
Refrigerant (GWP)		R410A (1975)							
Designated heating season		Average							
Indoor unit	FDT100VF2	FDT100VF2	FDT50VFx2	FDT50VFx2	FDT71VF1	FDT100VF2	FDT100VF2	FDC40VF	FDC50VF
Outdoor unit	FDC100VN	FDC100VS	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZMX-S	SRC50ZMX-S
Energy class (cooling/heating)	A+/A	A/A	A+/A	A+/A	A++/A+	A++/A+	A++/A+	A++/A	A+/A
SEER	5.61	5.57	5.89	5.85	6.14	6.73	6.78	6.53	6.01
SCOP (Average climate)	3.92	3.91	3.81	3.81	4.27	4.11	4.52	3.96	3.85
Pdesignc	kW	10.0	10.0	10.0	10.0	7.1	9.0	10.0	4.0
Pdesignh (@-10°C)	kW	9.7	9.7	9.5	9.5	5.7	8.1	8.1	4.0
Annual electricity consumption (cooling/heating)	kWh/a	625/3466	629/3470	595/3488	599/3492	405/1871	468/2756	516/2507	215/1416
Refrigerant (GWP)		R410A (1975)							
Designated heating season		Average							
Indoor unit	FDC60VF	FDC40VFx2	FDC50VFx2	FDC50VFx2	FDC50VFx2	FDC50VFx2	FDU71VF1	FDU100VF2	FDU100VF2
Outdoor unit	SRC60ZMX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)	A+/A	A/A	A/A	A/A	A/A	A/A	A/A	A/A+	A/A+
SEER	5.76	5.31	5.23	5.19	5.17	5.13	5.24	5.22	5.19
SCOP (Average climate)	3.80	3.88	3.87	3.86	3.84	3.84	3.90	4.10	4.10
Pdesignc	kW	5.6	7.1	10.0	10.0	10.0	10.0	7.1	10.0
Pdesignh (@-10°C)	kW	5.9	6.8	10.2	10.2	9.4	9.4	7.0	13.0
Annual electricity consumption (cooling/heating)	kWh/a	341/2172	468/2455	670/3692	674/3695	678/3424	682/3428	475/2513	670/4437
Refrigerant (GWP)		R410A (1975)							
Designated heating season		Average							

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

Indoor unit	FDU100VF2	FDU100VF2	FDU17VF1	FDU100VF2	FDU100VF2	FDM40VF	FDM50VF	FDM60VF	FDM71VF1	
Outdoor unit	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	
Energy class (cooling/heating)	B/A	B/A	A+/A+	A++/A+	A++/A+	A+/A+	A+/A+	A++/A+	A/A	
SEER	5.06	5.03	5.71	6.86	6.36	6.01	5.68	6.42	5.24	
SCOP (Average climate)	3.94	3.94	4.00	4.20	4.13	4.15	4.36	4.37	3.90	
Pdesignc	kW	10.0	10.0	7.1	9.0	10.0	4.0	5.0	5.6	7.1
Pdesignh (@-10°C)	kW	9.3	9.3	5.7	8.1	8.1	3.5	4.3	5.4	7.0
Annual electricity consumption (cooling/heating)	kWh/a	692/3303	696/3307	436/1996	459/2703	551/2746	233/1182	309/1382	306/1731	475/2513
Refrigerant (GWP)	R410A (1975)									
Designated heating season	Average									

Indoor unit	FDM100VF2	FDM100VF2	FDM40VFx2	FDM50VFx2	FDM50VFx2	FDM100VF2	FDM100VF2	FDM50VFx2	FDM50VFx2	
Outdoor unit	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC100VN	FDC100VS	
Energy class (cooling/heating)	A/A+	A/A+	A+/A+	A/A	A/A	B/A	B/A	B/A	B/A	
SEER	5.22	5.19	5.61	5.14	5.11	5.06	5.03	4.81	4.78	
SCOP (Average climate)	4.10	4.10	4.05	3.88	3.87	3.94	3.94	3.82	3.81	
Pdesignc	kW	10.0	10.0	7.1	10.0	10.0	10.0	10.0	10.0	
Pdesignh (@-10°C)	kW	13.0	13.0	7.0	10.0	10.0	9.3	9.3	9.3	
Annual electricity consumption (cooling/heating)	kWh/a	670/4437	675/4441	444/2422	681/3611	685/3614	692/3303	696/3307	728/3413	732/3416
Refrigerant (GWP)	R410A (1975)									
Designated heating season	Average									

Indoor unit	FDM71VF1	FDM100VF2	FDM100VF2	FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG	FDE100VG	
Outdoor unit	FDC71VNP	FDC90VNP	FDC100VNP	SRC40ZMX-S	SRC50ZMX-S	SRC60ZMX-S	FDC71VNX	FDC100VNX	FDC100VSX	
Energy class (cooling/heating)	A+/A+	A++/A+	A+/A+	A++/A	A++/A	A++/A+	B/A+	A+/A+	A+/A+	
SEER	5.71	6.86	6.36	6.46	6.10	6.72	4.87	5.89	5.84	
SCOP (Average climate)	4.00	4.20	4.13	3.93	3.92	4.08	4.00	4.18	4.17	
Pdesignc	kW	7.1	9.0	10.0	4.0	5.0	5.6	7.1	10.0	
Pdesignh (@-10°C)	kW	5.7	8.1	8.1	3.0	3.8	4.3	6.0	11.2	
Annual electricity consumption (cooling/heating)	kWh/a	436/1996	459/2703	551/2746	217/1069	288/1358	292/1475	511/2102	595/3754	599/3758
Refrigerant (GWP)	R410A (1975)									
Designated heating season	Average									

Indoor unit	FDE40VGx2	FDE50VGx2	FDE50VGx2	FDE100VG	FDE100VG	FDE50VGx2	FDE50VGx2	FDE71VG	FDE100VG	
Outdoor unit	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	
Energy class (cooling/heating)	A/A+	A/A	A/A	A/A	A/A	A/A	A/A	A++/A+	A++/A+	
SEER	5.26	5.53	5.49	5.43	5.39	5.16	5.13	6.35	6.63	
SCOP (Average climate)	4.09	3.94	3.94	3.91	3.90	3.81	3.80	4.22	4.25	
Pdesignc	kW	7.1	10.0	10.0	10.0	10.0	10.0	7.1	9.0	
Pdesignh (@-10°C)	kW	6.0	10.8	10.8	7.9	7.9	7.8	5.8	8.2	
Annual electricity consumption (cooling/heating)	kWh/a	473/2054	634/3836	638/3840	645/2830	649/2833	679/2868	683/2872	392/1925	475/2704
Refrigerant (GWP)	R410A (1975)									
Designated heating season	Average									

Indoor unit	FDE100VG	SRK71ZM-S	SRK100ZR-S	SRK50ZMX-Sx2	SRK50ZMX-Sx2	SRK50ZMX-Sx2	SRK50ZMX-Sx2	DF71VD1	DF100VD2	
Outdoor unit	FDC100VNP	FDC71VNP	FDC100VNP	FDC100VNX	FDC100VSX	FDC100VN	FDC100VS	FDC71VNX	FDC100VNX	
Energy class (cooling/heating)	A++/A+	A++/A+	A++/A+	A/A+	A/A+	A/A+	A/A+	B/A	A/A	
SEER	6.73	6.60	6.60	5.51	5.47	5.46	5.47	4.80	5.20	
SCOP (Average climate)	4.44	4.47	4.40	4.00	4.00	4.00	4.00	3.81	3.80	
Pdesignc	kW	10.0	7.1	10.0	10.0	10.0	10.0	7.1	10.0	
Pdesignh (@-10°C)	kW	8.1	5.7	7.2	11.6	11.6	8.2	6.7	13.0	
Annual electricity consumption (cooling/heating)	kWh/a	521/2556	377/1786	531/2289	636/4060	640/4063	642/2869	646/2872	518/2464	673/4792
Refrigerant (GWP)	R410A (1975)									
Designated heating season	Average									

Indoor unit	DF100VD2	DF100VD2	DF100VD2	DF71VD1	DF100VD2	DF100VD2	
Outdoor unit	FDC100VSX	FDC100VN	FDC100VS	FDC71VNP	FDC90VNP	FDC100VNP	
Energy class (cooling/heating)	A/A	B/A	B/A	A/A	A+/A+	A/A	
SEER	5.17	5.02	4.99	5.24	5.69	5.41	
SCOP (Average climate)	3.80	3.80	3.80	3.91	4.01	3.94	
Pdesignc	kW	10.0	10.0	7.1	9.0	10.0	
Pdesignh (@-10°C)	kW	13.0	9.3	9.3	5.5	8.1	
Annual electricity consumption (cooling/heating)	kWh/a	678/4795	697/3423	701/3427	475/1972	555/2826	647/2875
Refrigerant (GWP)	R410A (1975)						
Designated heating season	Average						

## Before starting use

### Heating performance

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

### Indication of sound values

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

### Use in oil atmosphere

Avoid installing this unit in as atmosphere where oil scatters or builds up, such as in a kitchen or machine factory. If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

### Use in acidic or alkaline atmosphere

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

### Use in places with high ceilings

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

### Refrigerant leakage

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

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

### Use in snowy areas

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

#### •Snow prevention

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

#### •Snow piling

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

### Automatic defrosting device

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

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

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

### Servicing the air-conditioner

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

## ⚠ Safety Precautions

### Air-conditioner usage target

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

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

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

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

### Before use

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

### Installation

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

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

### Usage place

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

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



Mitsubishi Heavy Industries, Ltd.  
Air-Conditioning & Refrigeration Division  
Machinery Equipment & Infrastructure  
16-5, Konan 2-chome, Minato-ku, Tokyo, 108-8215 Japan  
<http://www.mhi.co.jp>

### Our factories are ISO9001 and ISO14001 certified.

#### Certified ISO 9001



BIWAJIMA PLANT  
Mitsubishi Heavy Industries, Ltd.  
Air-conditioning & Refrigeration Systems Headquarters  
Certified ISO 9001  
Certificate Number : JGA-0109



MITSUBISHI HEAVY INDUSTRIES-  
MAHAJAK AIR CONDITIONERS CO., LTD.  
Certified ISO 9001  
Certificate Number : 04100 1988 0813



Mitsubishi Heavy  
Industries-Haier (Qingdao)  
Air-conditioners Co. Ltd.  
Certificate Number : 5170-199-AD-RG-RuK

#### Certified ISO 14001



BIWAJIMA PLANT  
Mitsubishi Heavy Industries, Ltd.  
Air-conditioning & Refrigeration Systems Headquarters  
Certificate Number : YKA003622



MITSUBISHI HEAVY INDUSTRIES-  
MAHAJAK AIR CONDITIONERS CO., LTD.  
Certificate Number : 04104 1998 0813 05



Mitsubishi Heavy  
Industries-Haier (Qingdao)  
Air-conditioners Co. Ltd.  
Certificate number : 01-1998-083



(COMPANY) participates in the ECC  
programme for (PROGRAMME).  
Check ongoing validity of certificate:  
[www.eurovent-certification.com](http://www.eurovent-certification.com) or  
[www.certiflash.com](http://www.certiflash.com) Certiflash

