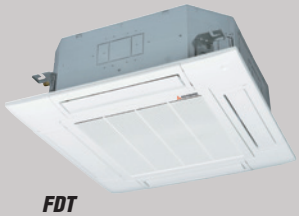
MITSUBISHI HEAVY INDUSTRIES

Our Technologies, Your Tomorrow

R410A



FDT

New FDTC

FD series

Inverter Packaged Air-Conditioners

High Performance Air-Conditioning

2019

CE

50/60Hz

19P01E

High Performance Air-Conditioning FDseries

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

CONTENTS

PRODUCT INFORMATION	page 4
PRODUCT LINE UP	page 20
BENEFITS SUMMARY	page 24
PRODUCT SERIES	page 26
CONTROL SYSTEMS	page 66
OUTDOOR UNIT DIMENSIONS	page 70
ENERGY EFFICIENT AND ENVIRONMENTALLY CONSCIOUS	page 74

New Generation FDT

Automatic energy saving control

Keep maximum comfort with minimal draft

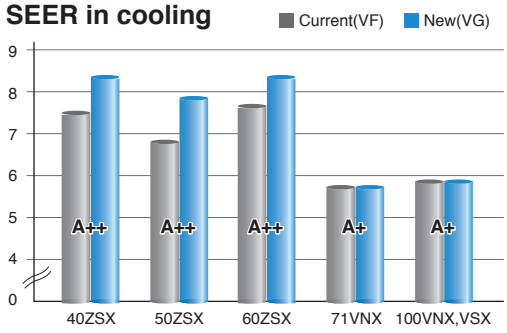
Quiet operation

High energy efficiency with new technology

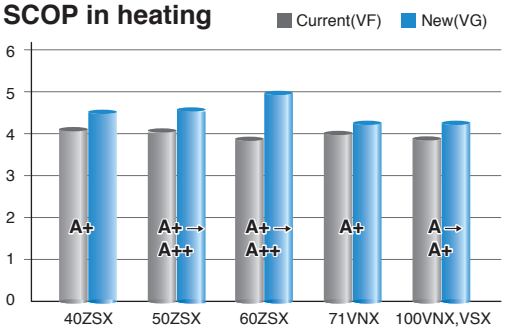
New FDT can achieve higher seasonal efficiency by Mitsubishi Heavy Industries latest technology.

- SEER and SCOP is defined in European regulations. Please refer to P74.

SEER in cooling



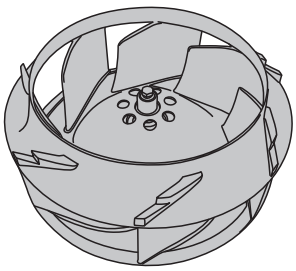
SCOP in heating



More quiet noise & Improve the aerodynamic performance of the unit

New technology has realised quiet noise with keeping capacity and comfort. A low noise is achieved by reducing the pressure fluctuation in an indoor unit. A fan guard attains both safety and quietness by flow.

New design turbo fan



Fan guard (standard equipment)

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

Draft Prevention Panel (Option)

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

Motion Sensor (Option)

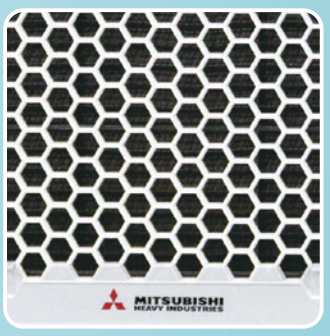
New motion sensor (option) detects human activity. Energy saving control is achieved by shifting set temperature according to detected amount of activity.

New Generation FDTC

More comfort and More energy saving

New European Design

Lower noise



European design & Flat panel

Thin Panel

FDTC thin panel fit within 10mm from the ceiling.

Big Louver

Improved directionally

Unique Grille Design

Honeycomb grille

Compact Design

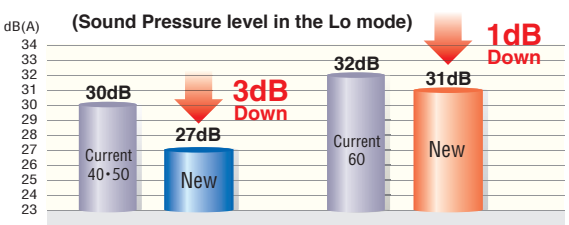
□700mm → □620mm

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

Integrated ceiling system design

More quiet operation

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



Draft Prevention Panel and Motion Sensor (option)

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

Ceiling cassette
FDT-VG seriese

Ceiling cassette Compact
FDTC-VG seriese

Draft Prevention Panel

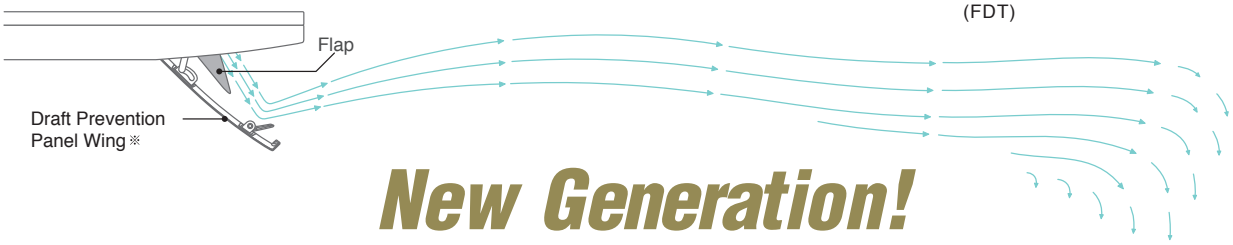
Keep maximum comfort with minimal draft:
New FDT & FDTC control flaps with more flexibility.

GOOD DESIGN

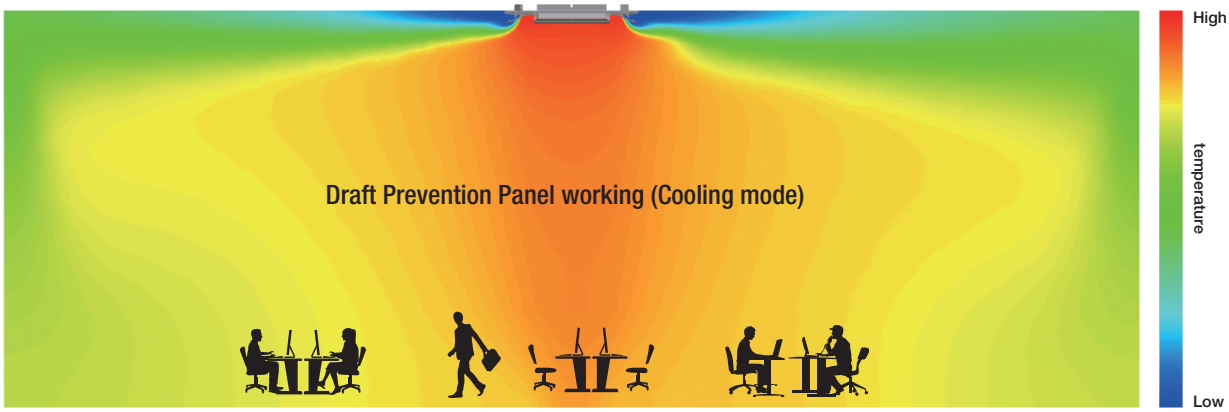
The Good Design Award is Japan's only comprehensive design evaluation and recommendation initiative, originating with the "Good Design Products Selection System" founded in 1957. It is now a global design award with participation from numerous Japanese and international companies and organizations. The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

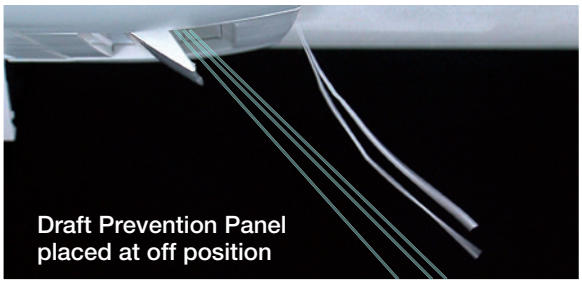
(FDT)

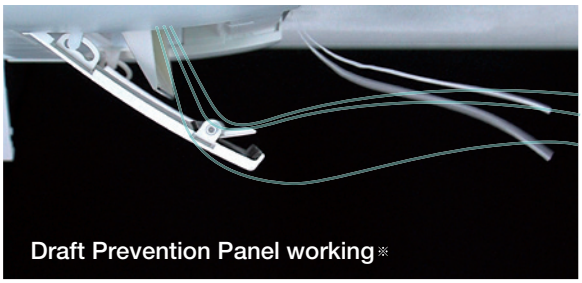
Draft Prevention Panel Operating Image

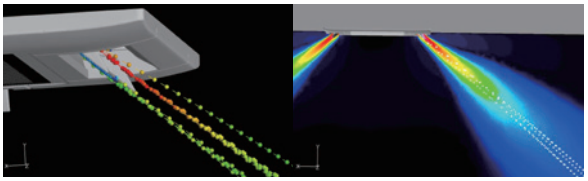


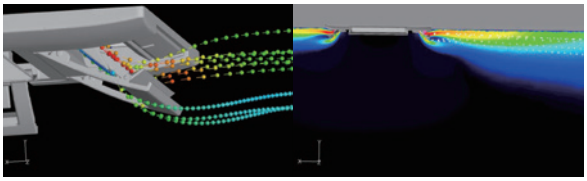
New Generation!











Draft Prevention Panel provides a comfortable airflow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.

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

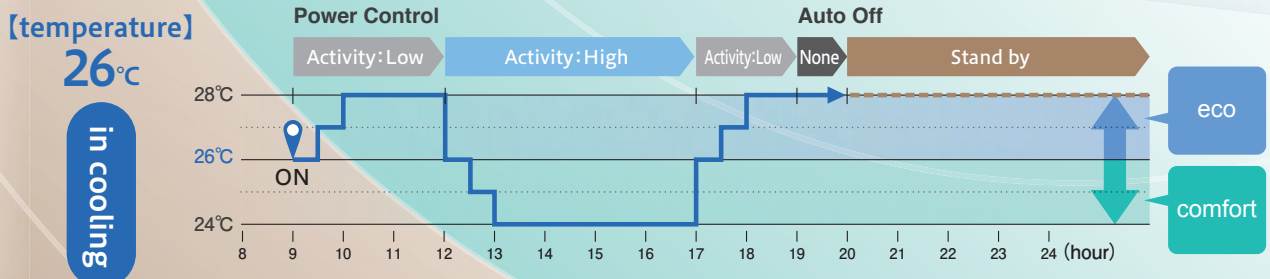
Applied models
FDT / FDTC **New**

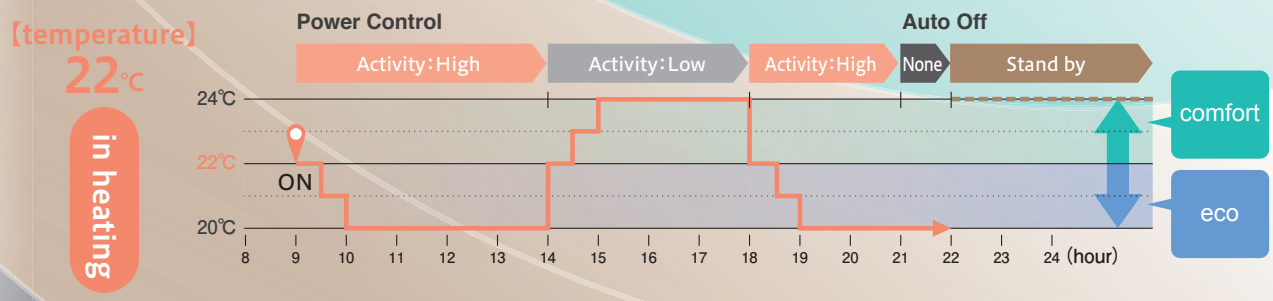
Motion sensor

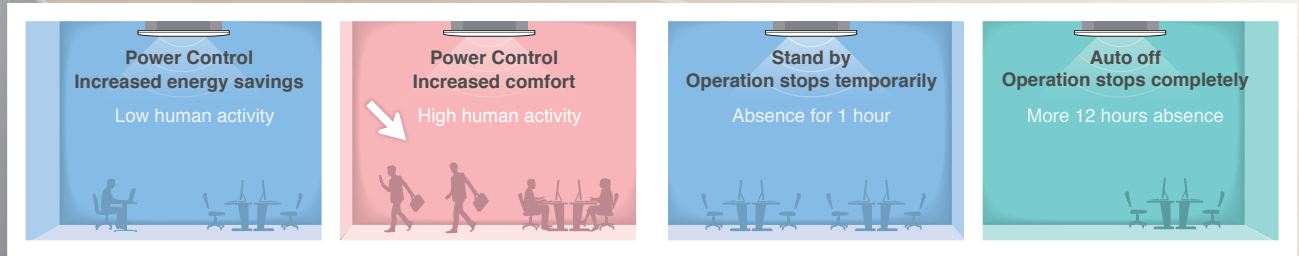
Energy saving control by detecting human moving

3 Step Control

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







Operation mode and Control of Motion sensor

eco operation
comfort operation

			Operation mode				
			Auto	Cool	Heat	Dry	Fan
Power Control ※1	Human activity	Low	Cooling +2℃ / Heating +2℃	+2℃	+2℃	–	–
		High	Cooling -2℃ / Heating -2℃	-2℃	-2℃	–	–
Auto Off ※2			●	●	●	●	●

※1 Set temperature is revised maximum 2℃ at Cooling/Heating mode by detecting heat volume movement.
※2 Absence for 1 hour ⇒ Operation stops (“Stand-by”) More 12 hours absence ⇒ Operation stops completely

Serviceability & workability

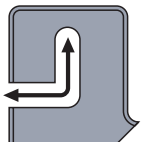
Easy and quick installation and maintenance

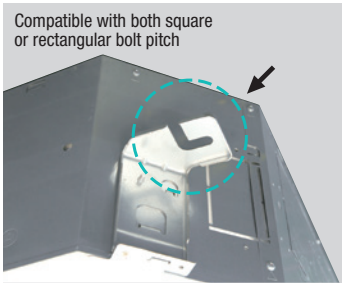
Indoor unit is easily positioned and installed

1 Adjustable easier positioning of unit by new slits

FDT

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

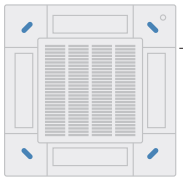


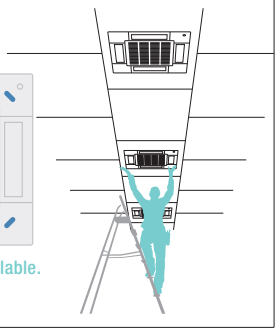


2 New slit in panel allows easier installation on site.

FDT
FDTC

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





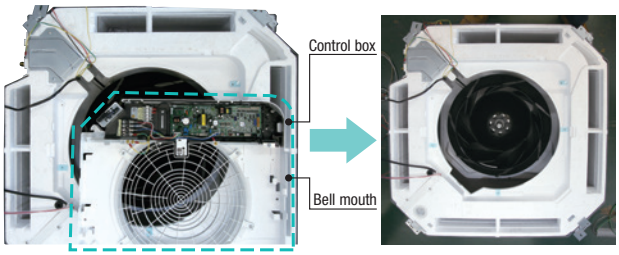
Quick installation and maintenance

1 Easy access to component part for easy maintenance.

FDT

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

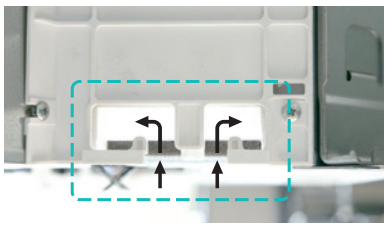
2 Easy access to impeller and fan motor.

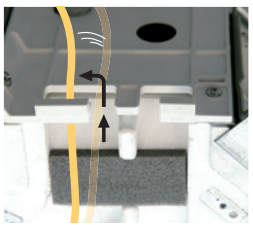


2 New shape of path of wiring

FDT

New shape of path gives easy wiring work for installation.

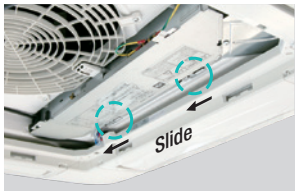


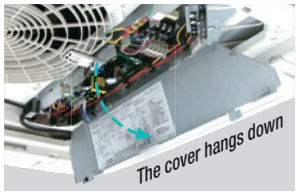


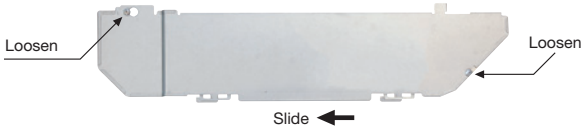
3 No need to remove screws to take off the controller cover.

FDT

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



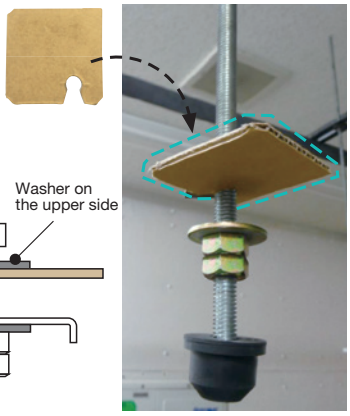


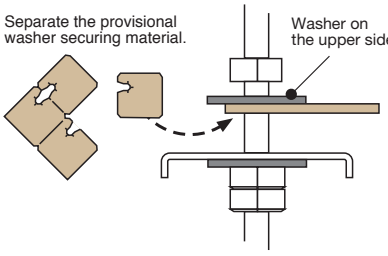


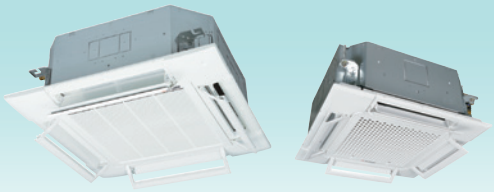
4 More safe installation by stopper of washer

FDT
FDTC

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







For smooth and easy working

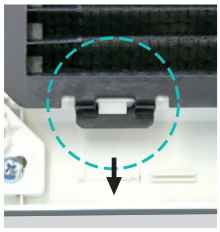
Good help for installation and maintenance

1 Easy and flexible hook to remove the filter

FDT FDTC

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

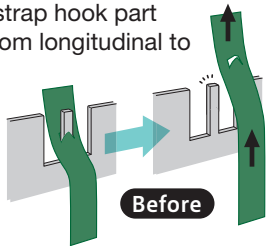
Press the filter tab to the outside and remove the filter.

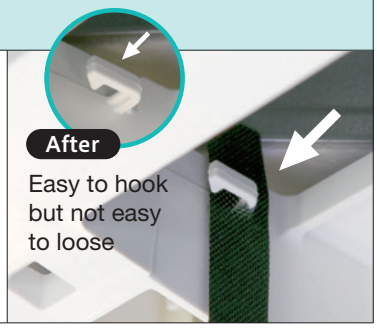


2 Securely fix the corner lid by strap

FDT

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



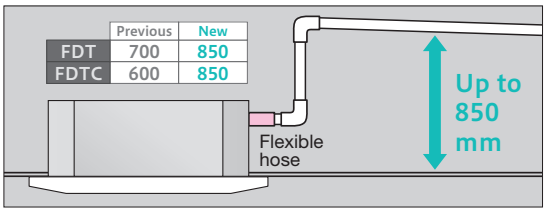


Easy to hook but not easy to loose

3 Drain-up-lift increases up to 850 mm

FDT FDTC

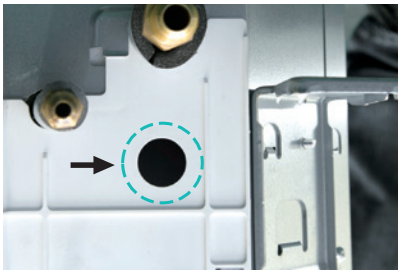
The drain can be lifted up to 850 mm from the ceiling surface.



4 New port to check drain water flow

FDT

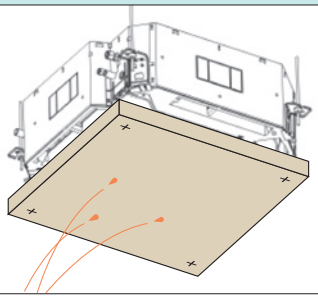
A water supply port has been provided in the piping lid for easier testing of the drain water flow. (The port is usually sealed with a rubber cap.)



5 Re-use of packages during construction work

FDT FDTC

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

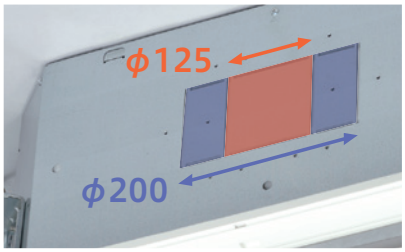


6 More flexible outlet for ducting

FDT FDTC

Both ϕ125 and ϕ200 (oval shaped) are available.

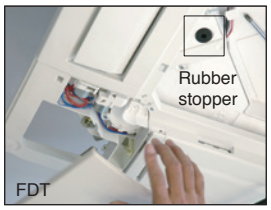
ϕ125 ϕ200

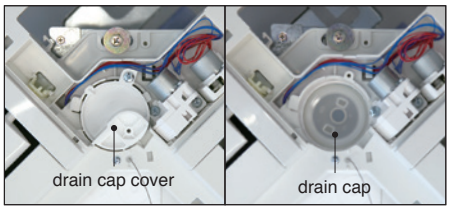


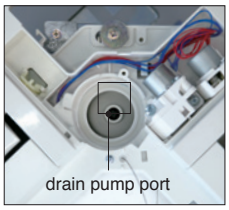
7 Easy check of drain pan

FDT FDTC

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







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

Clean up the area around the drain pump port.

Simple use with advanced settings REMOTE CONTROL

Easy touch and Easy view with full dot Liquid Crystal display

Add new function

RC-EX3A

Functions

Function Switch

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

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

1 High Power Mode

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

2 Energy Saving Mode

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

3 Quiet Mode

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

4 Home Leave Mode

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

5 Favorite Mode

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

6 Filter Sign

Announces the due time for cleaning the air filter.

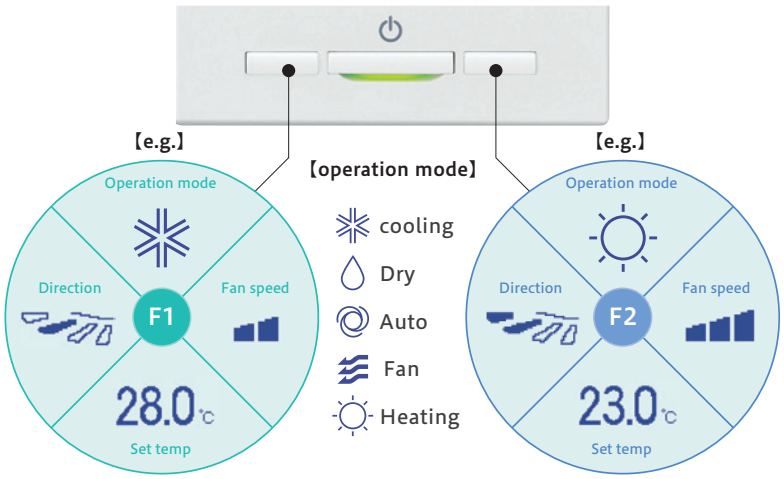
NEW

7 Anti draft ON/OFF

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

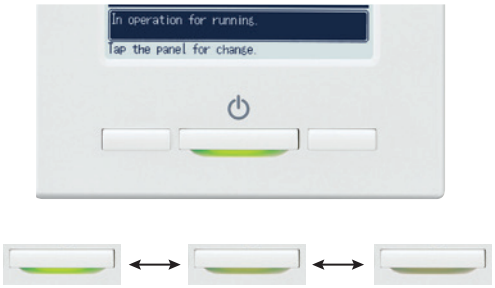
Favorite Mode

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



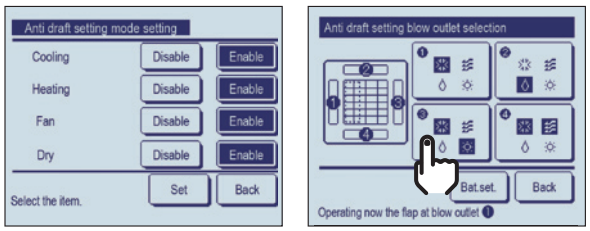
Adjusting Brightness of the Operation lamp

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



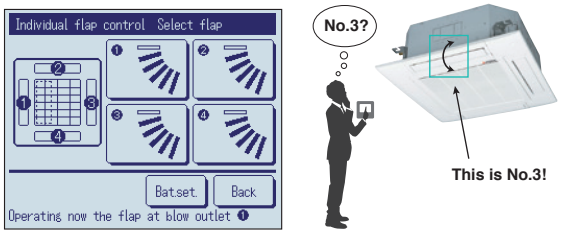
Draft prevention setting(only FDT·FDTC series)

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



Easy modification of Air Flow

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



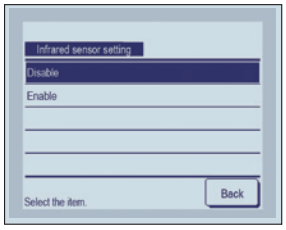
Motion sensor control

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

❶ Select Enable / Disable

Motion sensor control

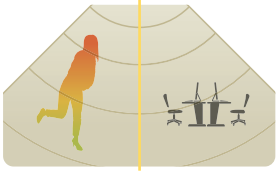
Enable／Disable



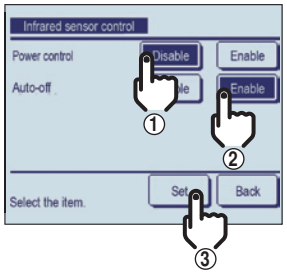
Select Enable / Disable for the motion sensor of the indoor unit connected to the R/C.

❷ Select Enable / Disable per control

- **Power control**
- **Auto-off**



Enable／Disable



Backup Control

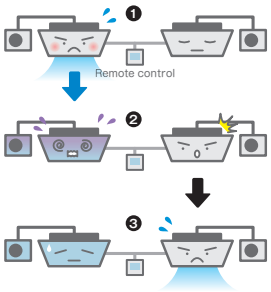
Control restricted to two indoor units (two groups)

Fault backup control

Reassurance　Comfort

Keep back up all the time!

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

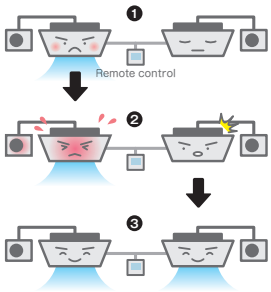


Capacity backup control

Comfort　Energy saving　Longer unit life

Maintains users' comfort!

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

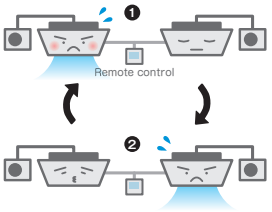


Rotational operation control

Longer unit life　Energy saving

Energy saving and longer life!

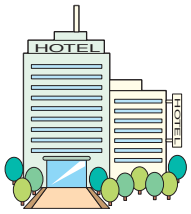
By operating two indoor units alternately, their chronological changes are equalized. (The alternate operation cycle can be specified in a range from 10 hours to 990 hours in increments of 10 hours.)



Additional functions of External Input / Output

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

Remote surveillance system



Card key on-off

External Input

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

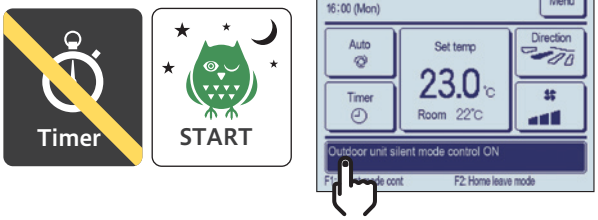
External Output

CNT (New)		
2	Output	- Operation - Heating - Compressor ON (thermo-ON)
3	Output	- Inspection
4	Output	- Cooling (defrosting) - Fan operation - Fan operation with Phi or Hi - Fan operation with Me or Lo - Defrosting (oil return in heating operation) - Ventilation
5	Output	- Heater ON - Free cooling - IU overload alarm

Newly added

Silent mode control

The Outdoor unit is controlled with priority on quietness. Silent mode control must be set to the F1 or F2 switch. User can start/stop the silent mode control with a single tap of a button.



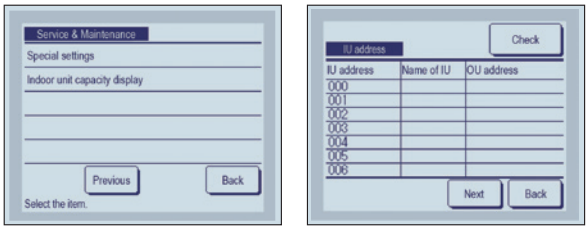
Language Switching

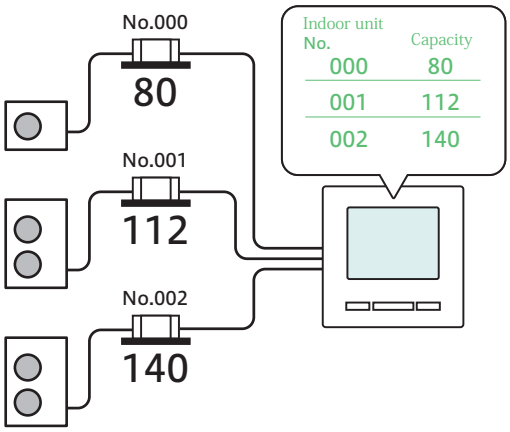
User can select from the following languages and also switch them on the top display.

NEW

Indoor unit capacity display

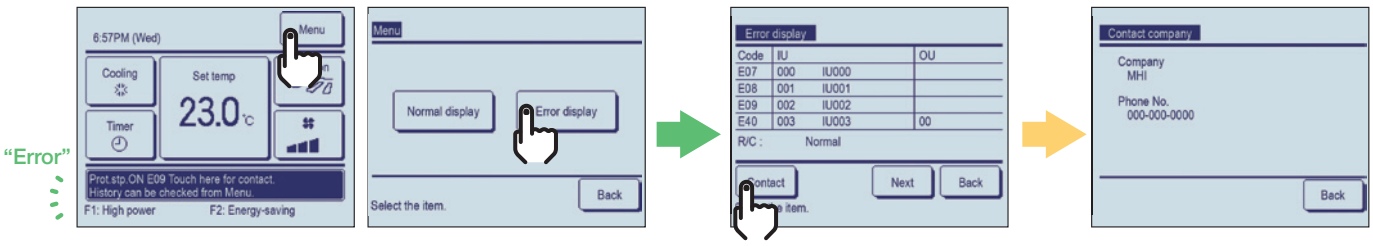
Capacities of Indoor units connected to the RC-EX3A are displayed.





Contact company & Error display

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



Wireless Kit & Wireless Remote Controller

Line-up

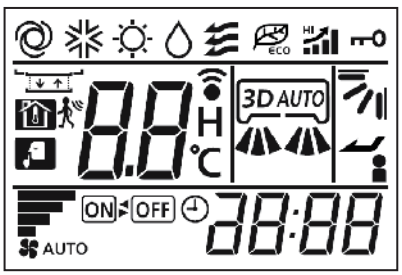
Model	Wireless kit
FDT	RCN-T-5AW-E2
FDTC	RCN-TC-5AW-E2
FDE	RCN-E-E3
FDU FDUM FDF	RCN-KIT4-E2

Function added

1) High power
2) Energy-saving
3) ON/OFF Timer by clock
4) Child lock
5) Silent mode control for Outdoor unit
6) Home leave mode

The functions and the operations will be improved.

Display



Hyper Inverter

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

Blue Fin

Line up

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

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

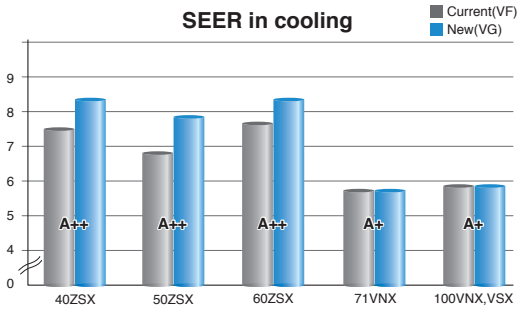
Blue Fin

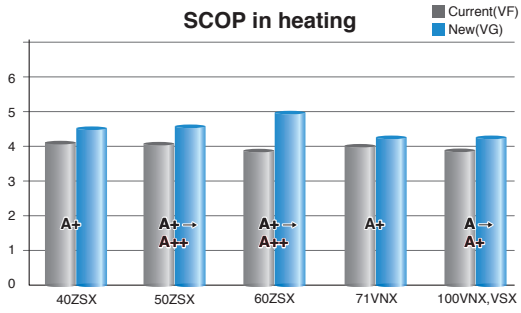
FDC71VNX (3.0HP)

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

High efficiency (comparison of FDT series)

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



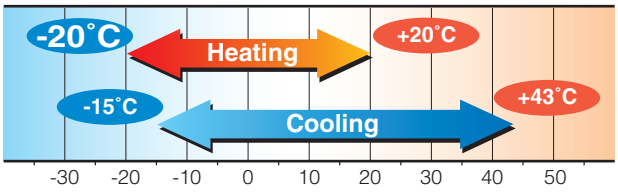


● SEER and SCOP is defined in European regulations. Please refer to P74.

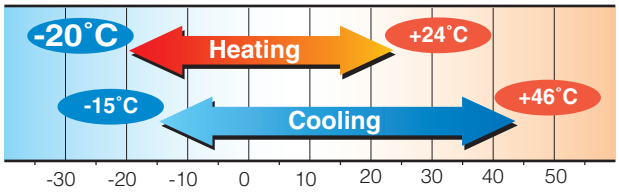
Wide Range of Operation

Our new advanced technology has expanded the heating and cooling operation range.This permits installation of the units considering a heating and cooling operation under a low temperature condition down to –20°C.

FDC71/100/125/140



SRC40/50/60



Max.heating capacity (kW)

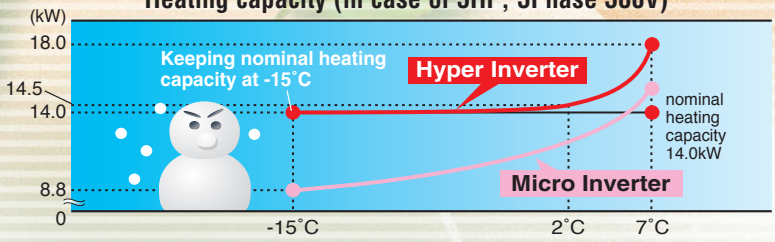
	Hyper Inverter	Micro Inverter
FDC100VSX(4HP, 3Phase 380V)	**16.0**	12.5
FDC125VSX(5HP, 3Phase 380V)	**18.0**	16.0
FDC140VSX(6HP, 3Phase 380V)	**20.0**	16.5

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.

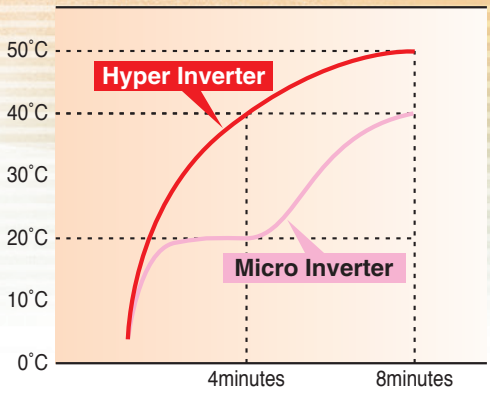
Heating capacity (in case of 5HP, 3Phase 380V)



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

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

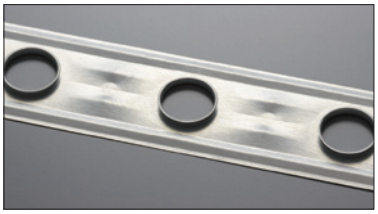
Heating capacity



Heat exchanger (All outdoor units)

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

sectional structure



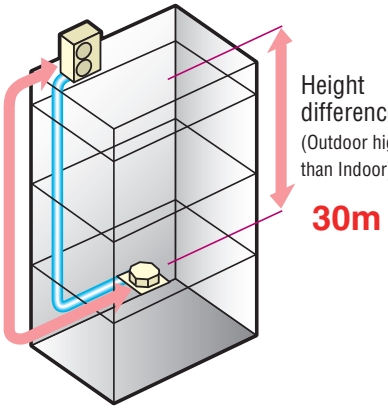
Heat Transfer Coef. W/m²K

Installation workability

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

Long Piping

(in case of 4~6HP)



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

Refrigerant precharged piping length extending to 30m

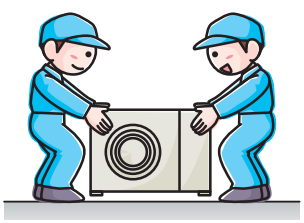
Refrigerant precharged piping length extends up to 30m. This eliminates the need to add refrigerant on site, which sets it free from trouble of excessive or insufficient charging of refrigerant, and allows carrying out the installation smoothly.

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

Easy Transportation & Installation

Fits into elevators

Eazy installation



Micro Inverter

Line up

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

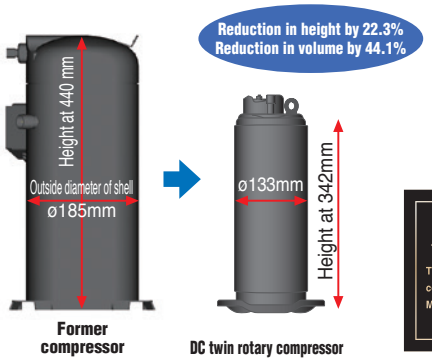
FDC100VNA/VSA (4.0HP)
FDC125VNA/VSA (5.0HP)
FDC140VNA/VSA (6.0HP)

FDC200VSA (8.0HP)

FDC250VSA (10.0HP)

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

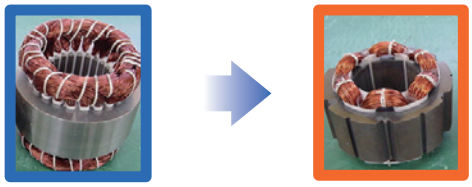
Employment of DC twin rotary compressor has enabled to utilize a high-speed range of up to 120 rps at the maximum to secure the required capacity.
Optimum compressor control has been realized by employing the vector control* and the starting current has been improved significantly compared with former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



Former compressor → **DC twin rotary compressor**

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

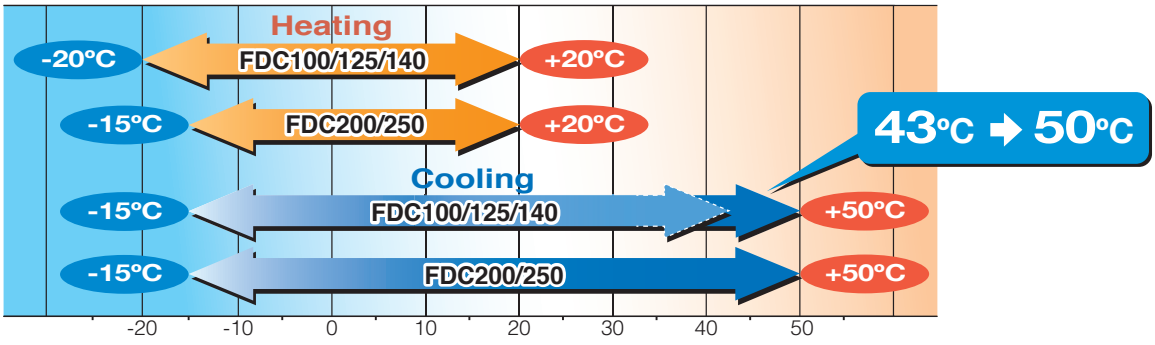
Better partial load efficiency



Distributed winding motor → **Centralized winding motor**

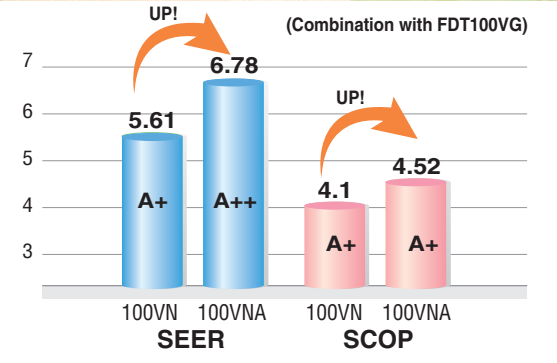
Wide range of operation

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



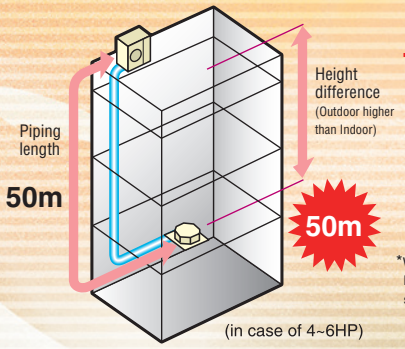
Higher seasonal efficiency

Seasonal efficiency is improved by use of centralized winding motor.



※ Please refer to P74

Long Piping Length



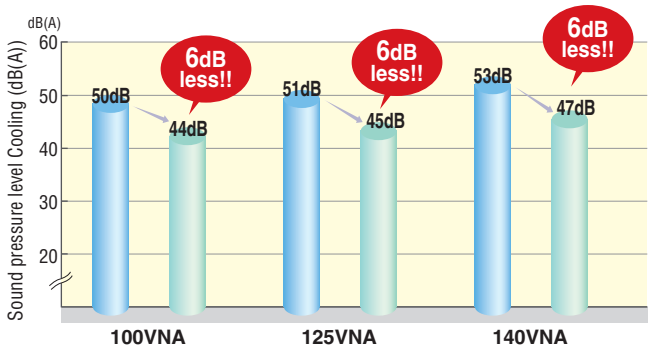
The industry's first!

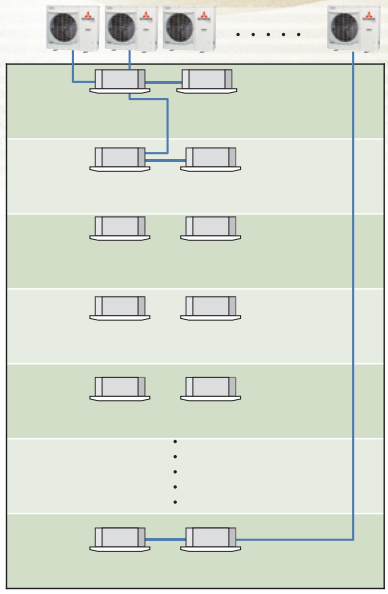
HP	Piping length	Height difference
4~6	50m	50m*
8·10	70m	30m

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

Silent mode

More quiet "silent mode" is possible.

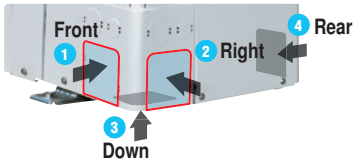




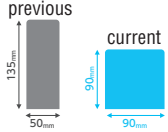
Wider variation of installation!

Serviceability (Micro Inverter 10HP)

● Improved freedom of piping layout



Hole size becomes 120% bigger.



● Wire insertion holes for fall prevention

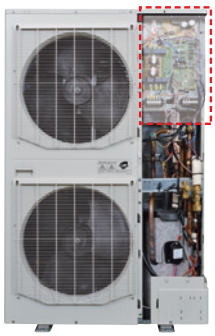
● 2 Layer Construction

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

● Four handles

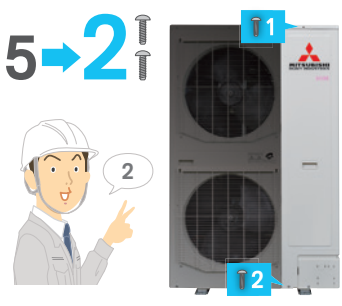
Located at the same level for easy transport and transfer.

● A transparent rain cover



Attached as a standard for easy maintenance.

● Fixing screws to service panel



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

Standard Inverter

Line up

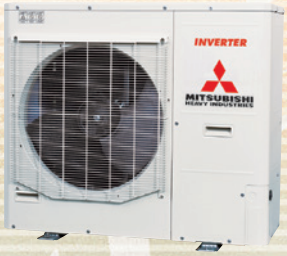
HP	1.5	2	2.5	3	3.5	4	5	6	8	10
Standard Inverter	–	–	–	●	●	●	–	–	–	–

FDC71VNP (3.0HP)

Blue Fin

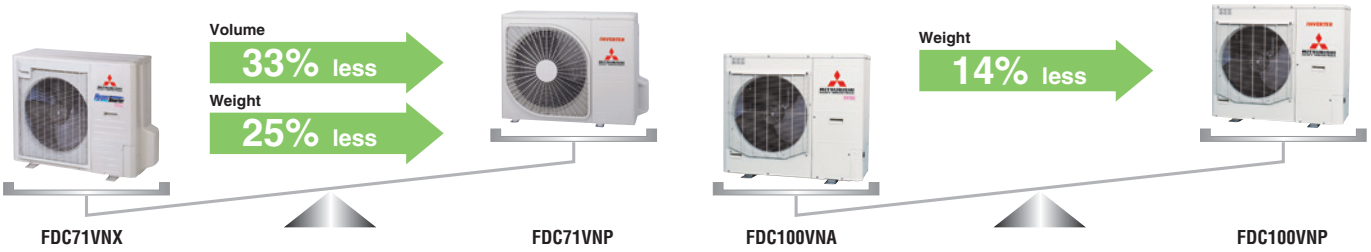
FDC90VNP1 (3.5HP)

Blue Fin



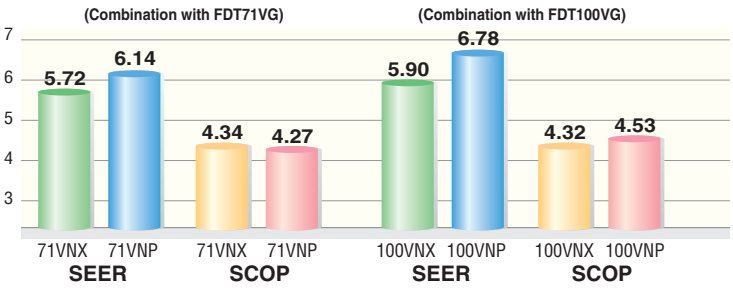
FDC100VNP (4.0HP)

Compact Design of outdoor units



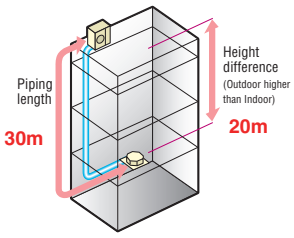
High SEER & SCOP

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



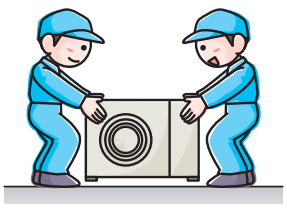
※ Please refer to P74

Installation workability



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

Eazy installation



Point 1 Blue Fin

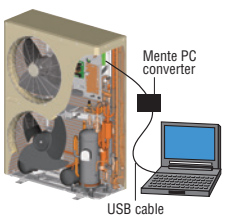
Due to application of blue coated fins (KS101) for the heat exchanger of new outdoor unit, corrosion resistance has been improved compared to current models.

Blue Fin

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

Point 2 Monitoring Function (All series)

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



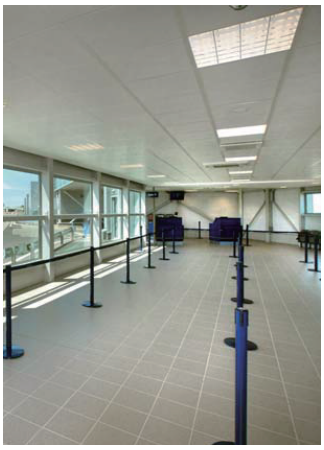
Point 3 Base heater kit (option)

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

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

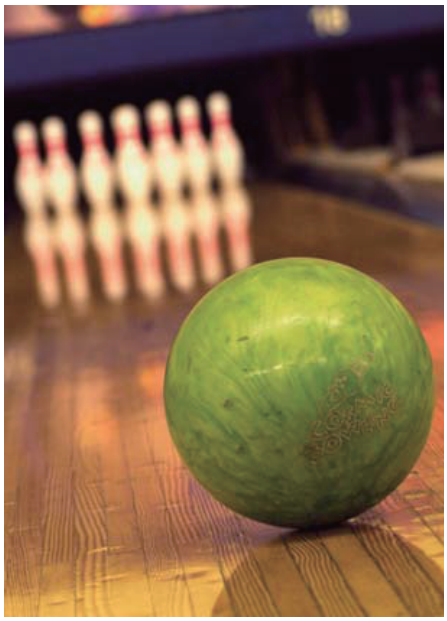
Case study: Commercial

MHI aircon system recovers waste energy at Bristol Airport



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

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



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

PRODUCT LINE UP

SINGLE SPLITS

Type								
				HyperInverter				
			HP	1.5	2.0	2.5	3.0	4.0
			kW	4.0	5.0	6.0	7.1	10.0
			Btu/h	13,600	17,100	20,500	24,200	34,100
			kcal/h	3,440	4,300	5,160	6,100	8,600
CEILING CASSETTE	4way FDT  P.26	Set	1Phase	**FDT40ZSXVG**	**FDT50ZSXVG**	**FDT60ZSXVG**	**FDT71VNXVG**	**FDT100VNXVG**
			3Phase					**FDT100VSXVG**
		Indoor unit		FDT40VG	FDT50VG	FDT60VG	FDT71VG	FDT100VG
		Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
			3Phase					FDC100VSX
	4way compact FDTC NEW  P.34	Set	1Phase	**FDTC40ZSXVG**	**FDTC50ZSXVG**	**FDTC60ZSXVG**		
		Indoor unit		FDTC40VG	FDTC50VG	FDTC60VG		
		Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S		
DUCT CONNECTED	High Static pressure FDU  P.38	Set	1Phase				**FDU71VNXVF1**	**FDU100VNXVF2**
			3Phase					**FDU100VSXVF2**
		Indoor unit					FDU71VF1	FDU100VF2
		Outdoor unit	1Phase				FDC71VNX	FDC100VNX
			3Phase					FDC100VSX
	Low/Middle Static pressure FDUM  P.43	Set	1Phase	**FDUM40ZSXVF**	**FDUM50ZSXVF**	**FDUM60ZSXVF**	**FDUM71VNXVF1**	**FDUM100VNXVF2**
			3Phase					**FDUM100VSXVF2**
		Indoor unit		FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2
		Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
			3Phase					FDC100VSX
WALL MOUNTED	SRK  P.50	Set	1Phase					
			3Phase					
		Indoor unit						
		Outdoor unit	1Phase					
			3Phase					
CEILING SUSPENDED	FDE  P.54	Set	1Phase	**FDE40ZSXVG**	**FDE50ZSXVG**	**FDE60ZSXVG**	**FDE71VNXVG**	**FDE100VNXVG**
			3Phase					**FDE100VSXVG**
		Indoor unit		FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG
		Outdoor unit	1Phase	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
			3Phase					FDC100VSX
FLOOR STANDING	FDF  P.62	Set	1Phase				**FDF71VNXVD1**	**FDF100VNXVD2**
			3Phase					**FDF100VSXVD2**
		Indoor unit					FDF71VD1	FDF100VD2
		Outdoor unit	1Phase				FDC71VNX	FDC100VNX
			3Phase					FDC100VSX

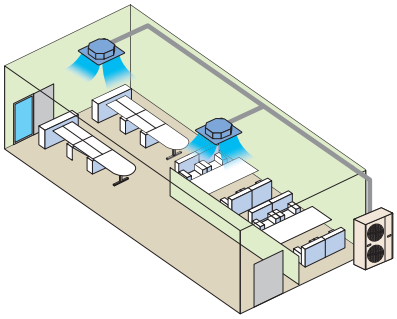
Capacity Range (Nominal Cooling Capacity)

		Micro Inverter					Standard Inverter		
5.0	6.0	4.0	5.0	6.0	8.0	10.0	3.0	3.5	4.0
12.5	14.0	10.0	12.5	14.0	20.0	24.0	7.1	9.0	10.0
42,700	47,800	34,100	42,700	47,800	68,200	81,300	24,200	30,700	34,100
10,750	12,040	8,600	10,750	12,040	17,200	20,640	6,100	7,740	8,600
FDT125VNXVG	**FDT140VNXVG**	**FDT100VNAVG**	**FDT125VNAVG**	**FDT140VNAVG**			**FDT71VNPVG**	**FDT90VNP1VG**	**FDT100VNP1VG**
FDT125VSXVG	**FDT140VSXVG**	**FDT100VSAVG**	**FDT125VSAVG**	**FDT140VSAVG**					
FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG			FDT71VG	FDT100VG	FDT100VG
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
FDU125VNXVF	**FDU140VNXVF**	**FDU100VNAVF2**	**FDU125VNAVF**	**FDU140VNAVF**			**FDU71VNPVF1**	**FDU90VNP1VF2**	**FDU100VNP1VF2**
FDU125VSXVF	**FDU140VSXVF**	**FDU100VSAVF2**	**FDU125VSAVF**	**FDU140VSAVF**	**FDU200VSAVG**	**FDU250VSAVG**			
FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF	FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA			
FDUM125VNXVF	**FDUM140VNXVF**	**FDUM100VNAVF2**	**FDUM125VNAVF**	**FDUM140VNAVF**			**FDUM71VNPVF1**	**FDUM90VNP1VF2**	**FDUM100VNP1VF2**
FDUM125VSXVF	**FDUM140VSXVF**	**FDUM100VSAVF2**	**FDUM125VSAVF**	**FDUM140VSAVF**					
FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF			FDUM71VF1	FDUM100VF2	FDUM100VF2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
		SRK100VNAZR							**SRK100VNP1ZR**
		SRK100VSAZR							
		SRK100ZR-S							SRK100ZR-S
		FDC100VNA							FDC100VNP
		FDC100VSA							
FDE125VNXVG	**FDE140VNXVG**	**FDE100VNAVG**	**FDE125VNAVG**	**FDE140VNAVG**			**FDE71VNPVG**	**FDE90VNP1VG**	**FDE100VNP1VG**
FDE125VSXVG	**FDE140VSXVG**	**FDE100VSAVG**	**FDE125VSAVG**	**FDE140VSAVG**					
FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG			FDE71VG	FDE100VG	FDE100VG
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					
FDF125VNXVD	**FDF140VNXVD**	**FDF100VNAVD2**	**FDF125VNAVD**	**FDF140VNAVD**			**FDF71VNPVD1**	**FDF90VNP1VD2**	**FDF100VNP1VD2**
FDF125VSXVD	**FDF140VSXVD**	**FDF100VSAVD2**	**FDF125VSAVD**	**FDF140VSAVD**					
FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD			FDF71VD1	FDF100VD2	FDF100VD2
FDC125VNX	FDC140VNX	FDC100VNA	FDC125VNA	FDC140VNA			FDC71VNP	FDC90VNP1	FDC100VNP
FDC125VSX	FDC140VSX	FDC100VSA	FDC125VSA	FDC140VSA					

MULTI SYSTEM

Twin / Triple / Double Twin Multi System

Up to Four indoor units can be connected to a single outdoor unit and simultaneously operated with a single remote control.
By referring to the following table for applicable indoor units, select the same models and capacities.

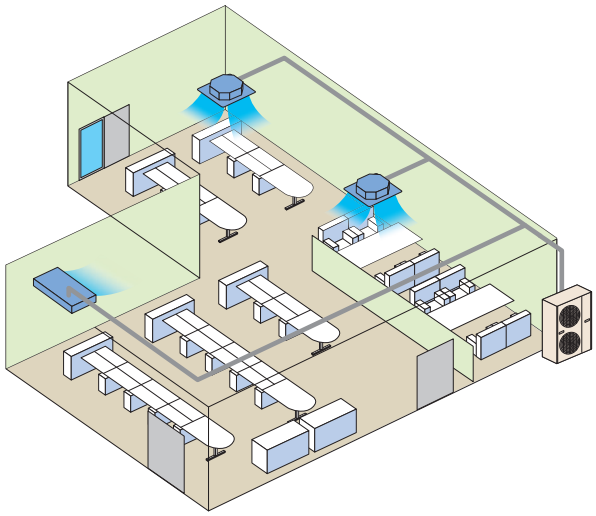


Combination of indoor units

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

V Multi System

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



Combination of indoor units

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

Applicable indoor units

Model		Capacity					
		40	50	60	71	100	125
Twin Triple Double Twin Multi System	4way **FDT** 	●	●	●	●	●	●
	4way compact **FDTC**  NEW	●	●	●			
	Low/Middle Static pressure **FDUM** 	●	●	●	●	●	●
	Wall Mounted **SRK** 		●*	●*		●	
	Ceiling Suspended **FDE** 	●	●	●	●	●	●
	Floor Standing **FDF** 				●	●	●
V Multi System	4way **FDT** 	●	●	●	●	●	●
	Ceiling Suspended **FDE** 	●	●	●	●	●	●

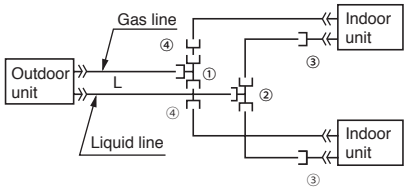
* Hyper inverter combination only

Decision of piping specification

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

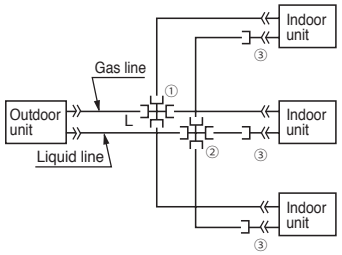
Twin type

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



Triple type

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



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

Chart of shapes of branch piping parts

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

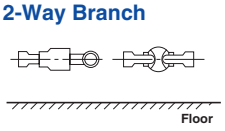
Branching pipe set type	Outdoor unit	Indoor unit combinations	Symbol: Branching pipe set for a gas pipe	Symbol: Branching pipe set for a liquid pipe	Symbol: Different diameter pipe joint
DIS-WA1G (Two-way branching set)	FDC71	40+40	① ID15.88 — 1 piece — ID15.88 / ID15.88	② ID9.52 — 1 piece — ID9.52 /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

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

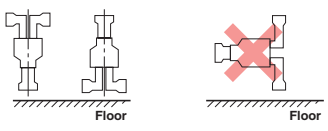
ID stands for inner diameter and OD, outer diameter.

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

2-Way Branch

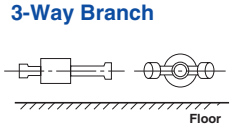


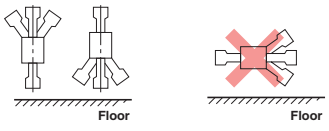
Mount —·— sections level with the floor.



Mount —·— sections perpendicular to the floor.

3-Way Branch





BENEFITS SUMMARY

Indoor units

When using RC-EX3A (Remote control), functions with symbol ● are available.
However, for RC-E5 (Remote control), functions with ※ are not available.

Economy	**Inverter technology**	Inverter control technology functions at high efficiency with smooth operation from high speed to low speed. A smooth sine voltage wave is attained.
	Energy-saving ※	Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.
	Home Leave Operation	This function ensures that when the room is unoccupied for long periods of time, the unit will maintain a moderate indoor temperature, avoiding extremely hot or cool temperatures.
	Set Temperature Auto Return ※	This function allows you to program a preferred set temperature that the unit will return to each time it is operated.
Comfort	**Automatic Operation**	This function automatically selects the required heating or cooling function based on the current room conditions.
	Silent Operation	This function allows you to program periods where the unit will operate with reduced noise levels, perfect for night time and an uninterrupted sleep.
	Motion sensor ※	This sensor detects human activity and shifts the temperature setting according to the amount of activity in the room.
	Hi Power Operation	Use the high power function to quickly reach your optimum temperature level when you first turn on the unit. This function will operate for a maximum of 15 minutes before returning to normal operation.
Air flow	**Flap Control System**	This function allows you to set the upper and lower limit positions of the flap at each air outlet individually, providing you with complete control over interior air flow.
	Vertical Auto Swing	The vertical louvers on your unit will move up and down continuously during operation. This function allows you to set the up/down swing position of the louver to your preferred operation angle.
	Draft prevention setting ※	Draft Prevention setting provides a comfortable air flow without any draft feeling. Whether cooling or heating a room, the remote control can be used to instantly suppress any warm or cool drafts. This accurately assists how air flow is directed out of the indoor unit.
	Automatic Fan Speed	The unit's on-board microcomputer continuously monitors the room's air temperature and adjusts the air flow automatically.
Timer	**Sleep Timer**	This function allows you to set a pre-determined amount of time between 30 and 240 minutes that your unit will operate for before switching off.
	Peak-Cut Timer ※	This function lets you to preset the capacity limit during certain periods of the day, minimising energy consumption during peak billing times, thus reducing operation costs.
	Weekly Timer	Set your unit to turn on and off automatically on a weekly basis to suit your usual room usage on each day.
Convenient	**Function Switch** ※	From the seven available functions on the unit, this function allows you to set two functions to operate automatically.
	Favorite setting ※	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	Select the language ※	Set the language to be displayed on the remote control.
	Air Filter	The air filter in the unit traps and removes airborne dust particles and other allergens to provide you with a clean air function.
	Filter Sign	This warning alerts you to when the filter needs to be cleaned.
	Outside Air Intake	This function provides clean fresh air into the room through the external air intake, avoiding the constant recycling of internal air.
Others	**Self Diagnostics**	The internal microcomputer automatically runs a diagnostic of the system in the event of a malfunction. This enables your authorised dealer to isolate and repair any issues.
	Built in Drain Pump	The built-in drain pump, allows greater flexibility with installation, offering a great solution for applications with limited space.
	Improved Serviceability	The fan unit (comprised of impeller and motor) is easily accessible from either the side or bottom of the unit and can be slid out for easy maintenance.

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

*1 : Except 200 • 250

CEILING CASSETTE -4way-

FDT

R410A

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

GOOD DESIGN

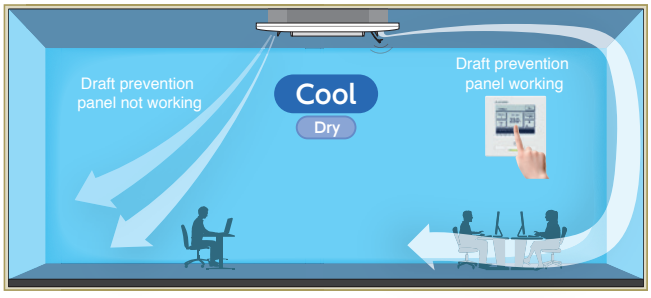
Draft Prevention Panel (Option)

Energy Saving | Home Leave | Hi Power | Silent Operation | Flap Control | Favourite Setting

*Not all functions available with all remote control options.

Point 1 Draft Prevention Panel (Option)

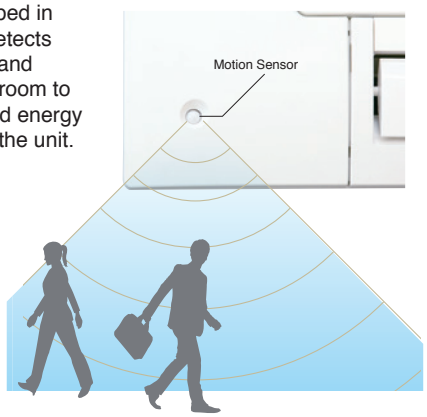
Draft Prevention Panel prevents cold/hot draft being blown directly on the user.
It is possible to set Draft Prevention Panel for each air outlet.



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

Point 2 Motion Sensor (Option)

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



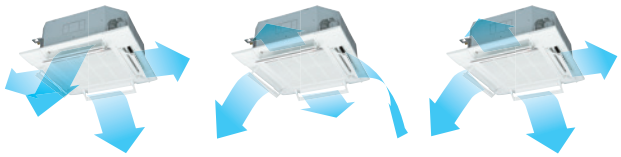
LB-T-5W-E

Remote control (option)

Wired			Wireless	
				
RC-EX3A	RC-E5	RCH-E3	RCN-T-5AW-E2	

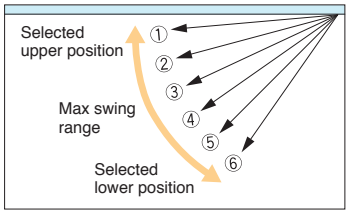
Point 3 Individual flap control system

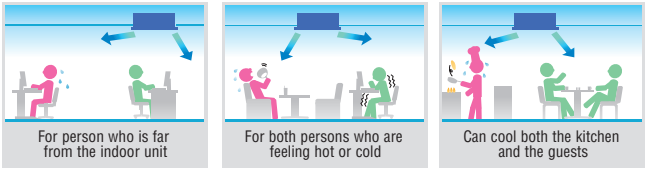
According to room conditions, four directions of air flow can be controlled individually by utilizing the flap control system.
Individual flap control is available even after installation.



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

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

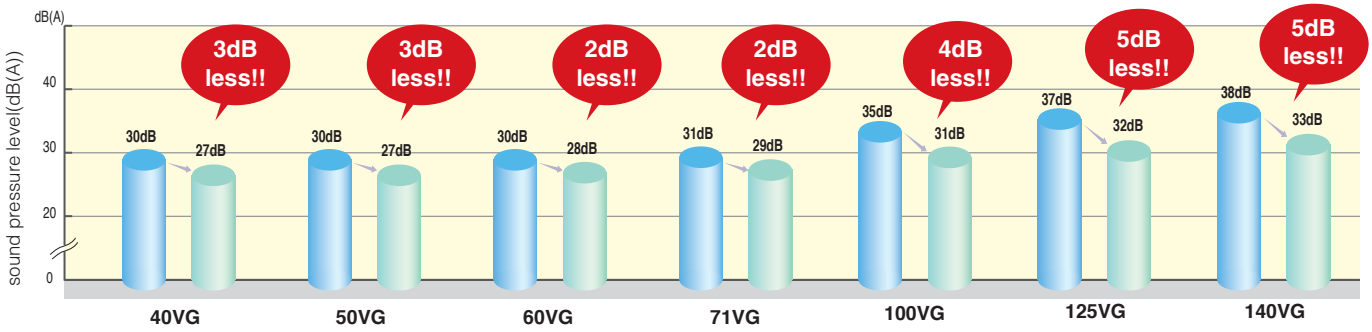




Point 4 More quiet noise

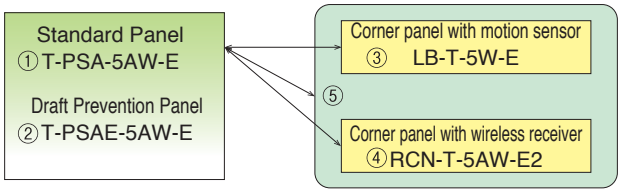
New technology has realised quiet noise with keeping capacity and comfort.

(Comparison of current model)



Point 5 Panel select pattern (Option)

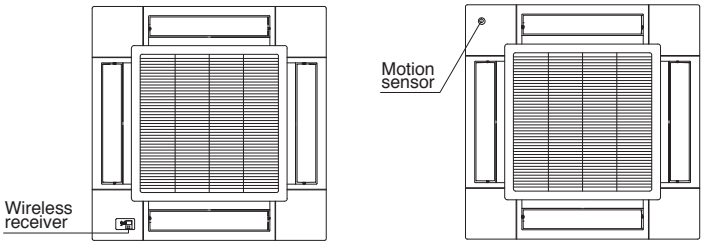
8 patterns of panel are available.



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

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

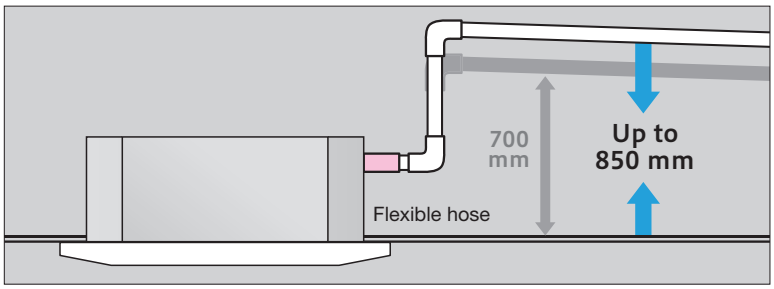
Installation position of Wireless kit and Motion sensor kit



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

Point 6 850mm Drain Pump

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



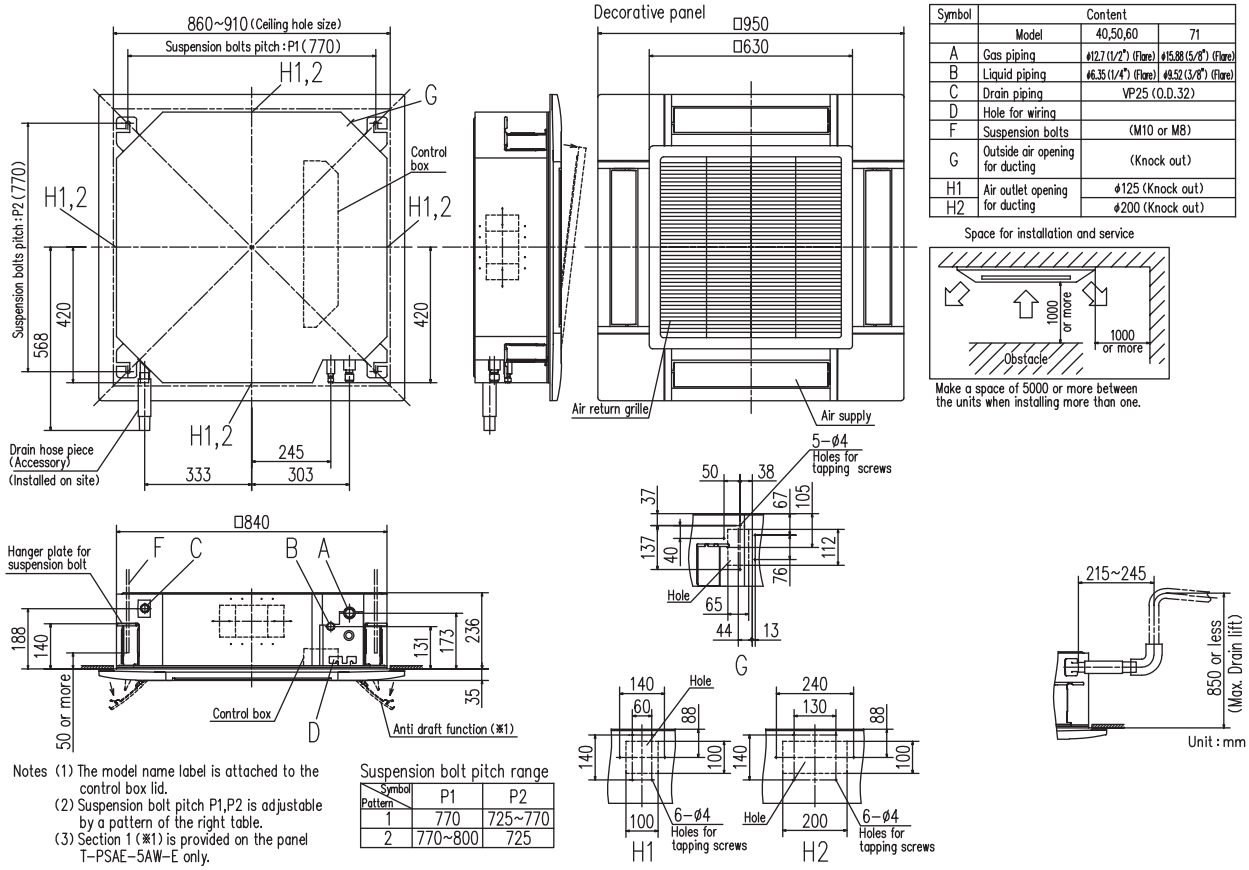
OUTDOOR UNIT

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

	Standard Inverter		
FDC	71VNP	90VNP1	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm)

Models FDT40VG,50VG,60VG,71VG



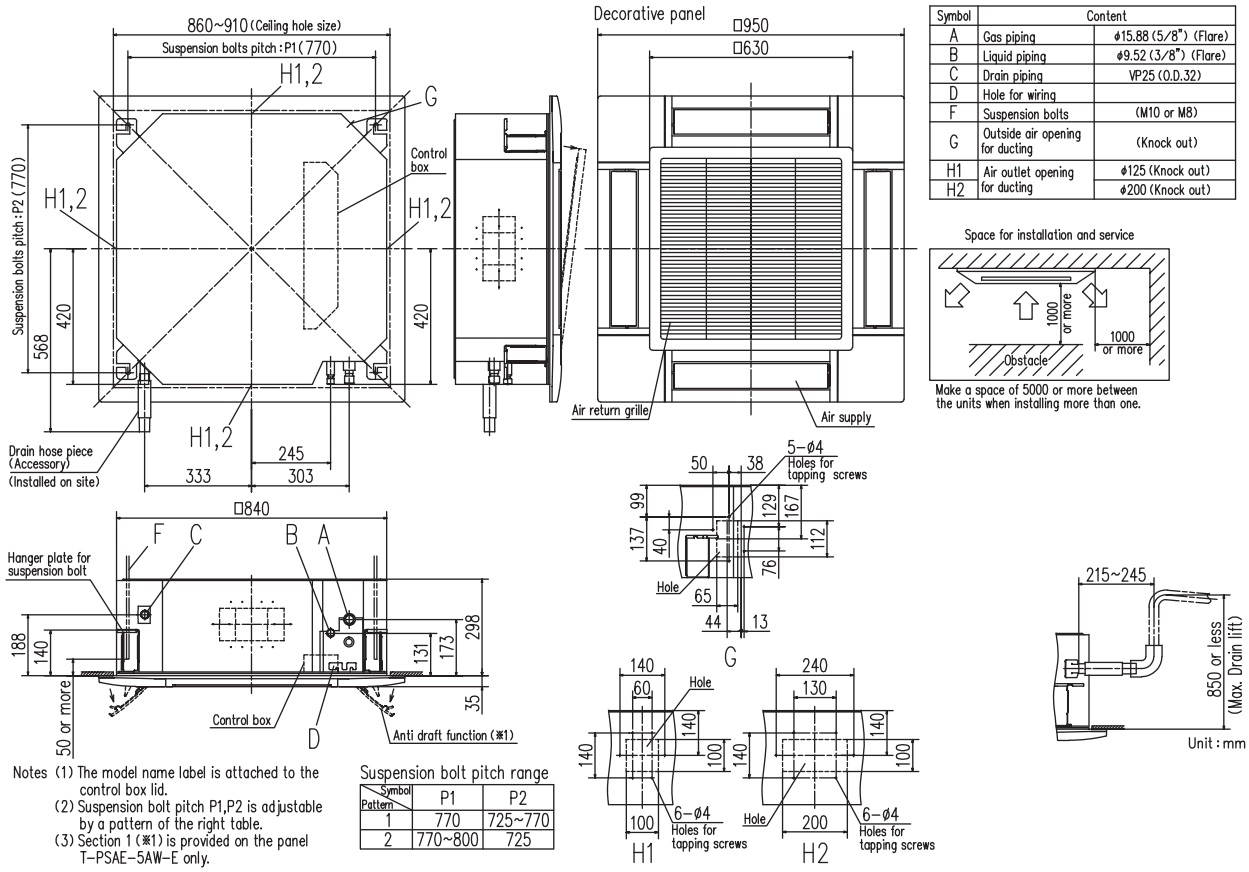
Symbol	Content		
	Model	40,50,60	71
A	Gas piping	ϕ12.7 (1/2") (Flare)	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)	ϕ9.52 (3/8") (Flare)
C	Drain piping	VP25 (O.D.32)	
D	Hole for wiring		
F	Suspension bolts	(M10 or M8)	
G	Outside air opening for ducting	(Knock out)	
H1	Air outlet opening for ducting	ϕ125 (Knock out)	
H2		ϕ200 (Knock out)	

Notes (1) The model name label is attached to the control box lid.
(2) Suspension bolt pitch P1,P2 is adjustable by a pattern of the right table.
(3) Section 1 (※1) is provided on the panel T-PSAE-5AW-E only.

Suspension bolt pitch range

Symbol / Pattern	P1	P2
1	770	725~770
2	770~800	725

Models FDT100VG,125VG,140VG



Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C	Drain piping	VP25 (O.D.32)
D	Hole for wiring	
F	Suspension bolts	(M10 or M8)
G	Outside air opening for ducting	(Knock out)
H1	Air outlet opening for ducting	ϕ125 (Knock out)
H2		ϕ200 (Knock out)

Notes (1) The model name label is attached to the control box lid.
(2) Suspension bolt pitch P1,P2 is adjustable by a pattern of the right table.
(3) Section 1 (※1) is provided on the panel T-PSAE-5AW-E only.

Suspension bolt pitch range

Symbol / Pattern	P1	P2
1	770	725~770
2	770~800	725

SPECIFICATIONS

				Hyper Inverter			
Set model name				FDT40ZSXVG	FDT50ZSXVG	FDT60ZSXVG	FDT71VNXVG
Indoor unit				FDT40VG	FDT50VG	FDT60VG	FDT71VG
Outdoor unit				SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)	7.1 (3.2 ~ 8.0)
Nominal heating capacity (Min~Max)			kW	4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 7.1)	8.0 (3.6 ~ 9.0)
Power consumption		Cooling/Heating	kW	0.93 / 1.03	1.29 / 1.29	1.52 / 1.56	1.94 / 1.91
EER/COP		Cooling/Heating		4.30 / 4.37	3.88 / 4.19	3.68 / 4.29	3.66 / 4.19
Inrush current			A	5	5	5	5
Max. current				12	15	15	17
Sound power level*1	Indoor	Cooling/Heating	dB(A)	53 / 53	54 / 54	60 / 60	62 / 62
	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64	66 / 66
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		36 / 33 / 30 / 27	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)		36 / 33 / 30 / 27	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52	51 / 48
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	19 / 16 / 13 / 10	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
		Heating (P-Hi/Hi/Me/Lo)		19 / 16 / 13 / 10	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating		36 / 33	39 / 33	41.5 / 39	60 / 50
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor			640 x 800(+71) x 290			750 x 880(+88) x 340
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)	
	Outdoor			45			60
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")			9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.30			Max. 50
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20			Max.30 / Max.15
Outdoor operating temperature range		Cooling	°C	-15~46*2			-15~43*3
		Heating		-20~24			-20~20
Panel				T-PSA-5AW-E, T-PSAE-5AW-E			
Air filter, Q'ty				Pocket plastic net x 1(Washable)			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

				Hyper Inverter					
Set model name				FDT100VNXVG	FDT125VNXVG	FDT140VNXVG	FDT100VSXVG	FDT125VSXVG	FDT140VSXVG
Indoor unit				FDT100VG	FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG
Outdoor unit				FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	2.50 / 2.58	3.42 / 3.43	4.26 / 4.20	2.50 / 2.58	3.42 / 3.43	4.26 / 4.20
EER/COP		Cooling/Heating		4.00 / 4.34	3.65 / 4.08	3.29 / 3.81	4.00 / 4.34	3.65 / 4.08	3.29 / 3.81
Inrush current			A	5	5	5	5	5	5
Max. current				24	26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	63 / 63	64 / 64	64 / 64	63 / 63	64 / 64	64 / 64
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33
		Heating (P-Hi/Hi/Me/Lo)		48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19	39 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
		Heating (P-Hi/Hi/Me/Lo)		37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19	39 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950					
	Outdoor			1,300 x 970 x 370					
Net weight	Indoor		kg	30(Unit:25 Standard Panel:5)					
	Outdoor			105					
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.100					
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15					
Outdoor operating temperature range		Cooling	°C	-15~43*2					
		Heating		-20~20					
Panel				T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty				Pocket plastic net x 1(Washable)					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

NOTES:

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name				Hyper Inverter				
				FDT71VNXPVG	FDT100VNXPVG	FDT125VNXPVG	FDT140VNXPVG	FDT140VNXTVG
				Twin				Triple
Indoor unit				FDT40VG x 2	FDT50VG x 2	FDT60VG x 2	FDT71VG x 2	FDT50VG x 3
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating	kW	1.85 / 1.99	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00
EER/COP		Cooling/Heating		3.84 / 4.02	3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00
Inrush current			A	5	5	5	5	5
Max. current				17	24	26	26	26
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	53 / 53	54 / 54	60 / 60	62 / 62	54 / 54
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		36 / 33 / 30 / 27	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29	38 / 33 / 30 / 27
		Heating (P-Hi/Hi/Me/Lo)		36 / 33 / 30 / 27	38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29	38 / 33 / 30 / 27
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	19 / 16 / 13 / 10	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		19 / 16 / 13 / 10	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950				
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)		26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panel:5)
	Outdoor			60	105			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max. 50	Max. 100			
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range		Cooling	°C	-15~43*3				
		Heating		-20~20				
Panel				T-PSA-5AW-E, T-PSAE-5AW-E				
Air filter, Q'ty				Pocket plastic net x 1(Washable)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2				

The values are for simultaneous Multi operation.

Set model name				Hyper Inverter			
				FDT100VSXPVG	FDT125VSXPVG	FDT140VSXPVG	FDT140VSXTVG
				Twin			Triple
Indoor unit				FDT50VG x 2	FDT60VG x 2	FDT71VG x 2	FDT50VG x 3
Outdoor unit				FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	2.56 / 2.67	3.26 / 3.22	3.88 / 3.74	3.93 / 4.00
EER/COP		Cooling/Heating		3.91 / 4.19	3.83 / 4.35	3.61 / 4.28	3.56 / 4.00
Inrush current			A	5	5	5	5
Max. current				15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	54 / 54	60 / 60	62 / 62	54 / 54
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29	38 / 33 / 30 / 27
		Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29	38 / 33 / 30 / 27
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panel:5)
	Outdoor			105			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.100			
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range		Cooling	°C	-15~43*3			
		Heating		-20~20			
Panel				T-PSA-5AW-E, T-PSAE-5AW-E			
Air filter, Q'ty				Pocket plastic net x 1(Washable)			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

NOTES:

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

SPECIFICATIONS

				Micro Inverter					
Set model name				FDT100VNAVG	FDT125VNAVG	FDT140VNAVG	FDT100VSAVG	FDT125VSAVG	FDT140VSAVG
Indoor unit				FDT100VG	FDT125VG	FDT140VG	FDT100VG	FDT125VG	FDT140VG
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	2.73 / 2.64	4.05 / 3.74	4.84 / 4.43	2.73 / 2.63	4.05 / 3.74	4.84 / 4.43
EER/COP		Cooling/Heating		3.66 / 4.26	3.09 / 3.74	2.81 / 3.50	3.66 / 4.26	3.09 / 3.74	2.81 / 3.50
Inrush current			A	5	5	5	5	5	5
Max. current				24	24	24	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	63 / 63	64 / 64	64 / 64	63 / 63	64 / 64	64 / 64
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33
		Heating (P-Hi/Hi/Me/Lo)		48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33	48 / 39 / 37 / 31	49 / 41 / 39 / 32	49 / 42 / 39 / 33
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
		Heating (P-Hi/Hi/Me/Lo)		37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19	37 / 26 / 23 / 17	38 / 28 / 25 / 18	38 / 29 / 26 / 19
	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	30(Unit:25 Standard Panel:5)					
	Outdoor			80			82		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.50					
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15					
Outdoor operating temperature range		Cooling	°C	-15~50*3					
		Heating		-20~20					
Panel				T-PSA-5AW-E, T-PSAE-5AW-E					
Air filter, Q'ty				Pocket plastic net x 1(Washable)					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2					

The values are for simultaneous Multi operation.

				Micro Inverter			
Set model name				FDT100VNAPVG	FDT125VNAPVG	FDT140VNAPVG	FDT140VNATVG
				Twin			Triple
Indoor unit				FDT50VG x 2	FDT60VG x 2	FDT71VG x 2	FDT50VG x 3
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	2.82 / 2.90	3.79 / 3.31	4.22 / 3.29	4.22 / 3.29
EER/COP		Cooling/Heating		3.55 / 3.86	3.30 / 4.23	3.22 / 4.71	3.22 / 4.71
Inrush current			A	5	5	5	5
Max. current				24	24	24	24
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	54 / 54	60 / 60	62 / 62	54 / 54
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	73 / 73
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29	38 / 33 / 30 / 27
		Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29	38 / 33 / 30 / 27
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	57 / 59
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950			
	Outdoor			845 x 970 x 370			
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)		24(Unit:19 Standard Panel:5)
	Outdoor			80			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.50			
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15			
Outdoor operating temperature range		Cooling	°C	-15~50*3			
		Heating		-20~20			
Panel				T-PSA-5AW-E, T-PSAE-5AW-E			
Air filter, Q'ty				Pocket plastic net x 1(Washable)			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2			

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter		
Set model name				FDT100VSAPVG	FDT125VSAPVG	FDT140VSAPVG
				Twin		
Indoor unit				FDT50VG x 2	FDT60VG x 2	FDT71VG x 2
Outdoor unit				FDC100VSA	FDC125VSA	FDC140VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	2.82 / 2.90	3.79 / 3.31	4.22 / 3.29
EER/COP		Cooling/Heating		3.55 / 3.86	3.30 / 4.23	3.22 / 4.71
Inrush current			A	5	5	5
Max. current				15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	54 / 54	60 / 60	62 / 62
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
		Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 30 / 27	44 / 34 / 32 / 28	46 / 35 / 34 / 29
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
		Heating (P-Hi/Hi/Me/Lo)		20 / 16 / 13 / 10	26 / 17 / 14 / 11	28 / 18 / 15 / 12
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)	
	Outdoor			82		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.50		
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range		Cooling	°C	-15~50*3		
		Heating		-20~20		
Panel				T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty				Pocket plastic net x 1(Washable)		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

The values are for simultaneous Multi operation.

				Micro Inverter		
Set model name				FDT200VSAPVG	FDT250VSAPVG	FDT140VSATVG
				Twin		Triple
Indoor unit				FDT100VG x 2	FDT125VG x 2	FDT50VG x 3
Outdoor unit				FDC200VSA	FDC250VSA	FDC140VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	6.25 / 6.02	8.36 / 7.15	4.22 / 3.29
EER/COP		Cooling/Heating		3.04 / 3.72	2.87 / 3.78	3.22 / 4.71
Inrush current			A	5	5	5
Max. current				20	21	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	63 / 63	64 / 64	54 / 54
	Outdoor	Cooling/Heating		72 / 74	73 / 75	73 / 73
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		48 / 39 / 37 / 31	49 / 41 / 39 / 32	38 / 33 / 30 / 27
		Heating (P-Hi/Hi/Me/Lo)		48 / 39 / 37 / 31	49 / 41 / 39 / 32	38 / 33 / 30 / 27
	Outdoor	Cooling/Heating		58 / 59	59 / 62	57 / 59
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	37 / 26 / 23 / 17	38 / 28 / 25 / 18	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		37 / 26 / 23 / 17	38 / 28 / 25 / 18	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		135 / 135	143 / 151	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950		Unit: 236 x 840 x 840 Panel: 35 x 950 x 950
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370	845 x 970 x 370
Net weight	Indoor		kg	30(Unit:25 Standard Panel:5)		24(Unit:19 Standard Panel:5)
	Outdoor			115	143	82
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.70		Max.50
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15		Max.50 / Max.15
Outdoor operating temperature range		Cooling	°C	-15~50*3		
		Heating		-15~20		-20~20
Panel				T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty				Pocket plastic net x 1(Washable)		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

NOTES:

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter		
Set model name				FDT200VSATVG	FDT200VSADVG	FDT250VSADVG
				Triple	Double Twin	
Indoor unit				FDT71VG x 3	FDT50VG x 4	FDT60VG x 4
Outdoor unit				FDC200VSA	FDC200VSA	FDC250VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	19.0 (5.2 ~ 22.4)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min~Max)			kW	22.4 (3.3 ~ 25.0)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption		Cooling/Heating	kW	6.01 / 5.76	6.26 / 6.15	7.42 / 6.83
EER/COP		Cooling/Heating		3.16 / 3.89	3.04 / 3.64	3.23 / 3.95
Inrush current			A	5	5	5
Max. current				20	20	21
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	62 / 62	54 / 54	60 / 60
	Outdoor	Cooling/Heating		72 / 74	72 / 74	73 / 75
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		46 / 35 / 34 / 29	38 / 33 / 30 / 27	44 / 34 / 32 / 28
		Heating (P-Hi/Hi/Me/Lo)		46 / 35 / 34 / 29	38 / 33 / 30 / 27	44 / 34 / 32 / 28
	Outdoor	Cooling/Heating		58 / 59	58 / 59	59 / 62
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	28 / 18 / 15 / 12	20 / 16 / 13 / 10	26 / 17 / 14 / 11
		Heating (P-Hi/Hi/Me/Lo)		28 / 18 / 15 / 12	20 / 16 / 13 / 10	26 / 17 / 14 / 11
	Outdoor	Cooling/Heating		135 / 135	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950		
	Outdoor			1,300 x 970 x 370		1,505 x 970 x 370
Net weight	Indoor		kg	26(Unit:21 Standard Panel:5)	24(Unit:19 Standard Panel:5)	26(Unit:21 Standard Panel:5)
	Outdoor			115		143
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")		12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.70		
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range		Cooling	℃	-15~50*3		
		Heating		-15~20		
Panel				T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty				Pocket plastic net x 1(Washable)		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

				Standard Inverter		
Set model name				FDT71VNPVG	FDT90VNP1VG	FDT100VNP1VG
Indoor unit				FDT71VG	FDT100VG	FDT100VG
Outdoor unit				FDC71VNP	FDC90VNP1	FDC100VNP
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption		Cooling/Heating	kW	2.31 / 1.73	2.67 / 2.19	2.76 / 2.84
EER/COP		Cooling/Heating		3.07 / 4.10	3.37 / 4.11	3.62 / 3.94
Inrush current			A	5	5	5
Max. current				14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	62 / 62	63 / 63	63 / 63
	Outdoor	Cooling/Heating		67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		46 / 35 / 34 / 29	48 / 39 / 37 / 31	48 / 39 / 37 / 31
		Heating (P-Hi/Hi/Me/Lo)		46 / 35 / 34 / 29	48 / 39 / 37 / 31	48 / 39 / 37 / 31
	Outdoor	Cooling/Heating		54 / 54	57 / 55	57 / 61
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17
		Heating (P-Hi/Hi/Me/Lo)		28 / 18 / 15 / 12	37 / 26 / 23 / 17	37 / 26 / 23 / 17
	Outdoor	Cooling/Heating		36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 236 x 840 x 840 Panel: 35 x 950 x 950	Unit: 298 x 840 x 840 Panel: 35 x 950 x 950	
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	26(Unit:21 Standard Panel:5)	30(Unit:25 Standard Panel:5)	
	Outdoor			45	57	70
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.30		
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range		Cooling	℃	-15~46*3		
		Heating		-15~20		
Panel				T-PSA-5AW-E, T-PSAE-5AW-E		
Air filter, Q'ty				Pocket Plastic net x1(Washable)		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2		

CEILING CASSETTE -4way Compact

FDTC

NEW

R410A

FDTC 40/50/60

Draft Prevention Panel (option)

Energy Saving | Home Leave | Hi Power | Silent Operation | Flap Control | Favourite Setting

*Not all functions available with all remote control options.

Remote control (option)

Wired

RC-EX3A

RC-E5

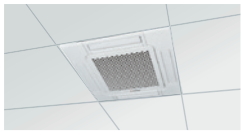
RCH-E3

Wireless

RCN-TC-5AW-E2

Point 1 European design & Flat panel

Integrated ceiling system design



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

Compact Design

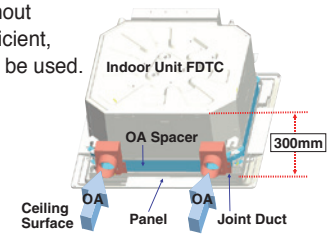
□700mm → □620mm

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

Taking OA (Outside Air) into inside

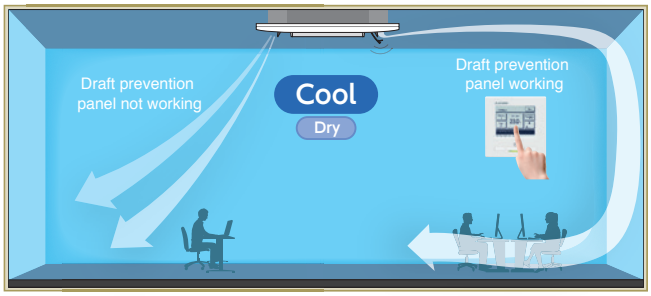
Fresh air can be taken in without option parts. When it is insufficient, existing option parts also can be used.

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



Point 2 Draft Prevention Panel (Option)

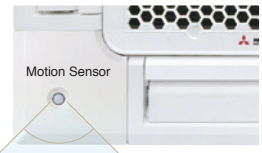
Draft Prevention Panel prevents cold/hot draft being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



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

Point 3 Motion Sensor (Option)

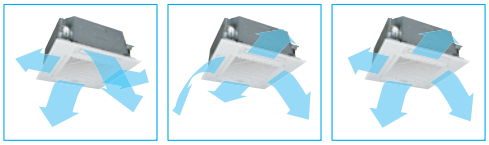
Motion sensor is equipped in the panel corner and detects the presence/absence and activity of humans in a room to improve the comfort and energy saving performance of the unit.



LB-TC-5W-E

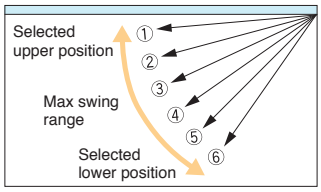
Point 4 Individual flap control system

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



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

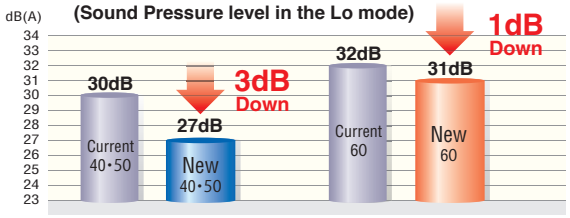
※The wireless remote control is not applicable to the Individual flap control system.



Point 5 850mm Drain Pump

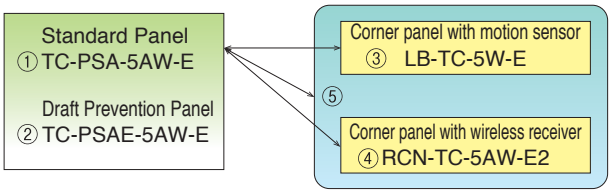
Drain can be discharged upward by 850 mm from the ceiling surface close to the indoor unit. It allows a piping layout with a high degree of freedom depending on the installation location.

Point 6 Quiet operation



Point 7 Panel select pattern

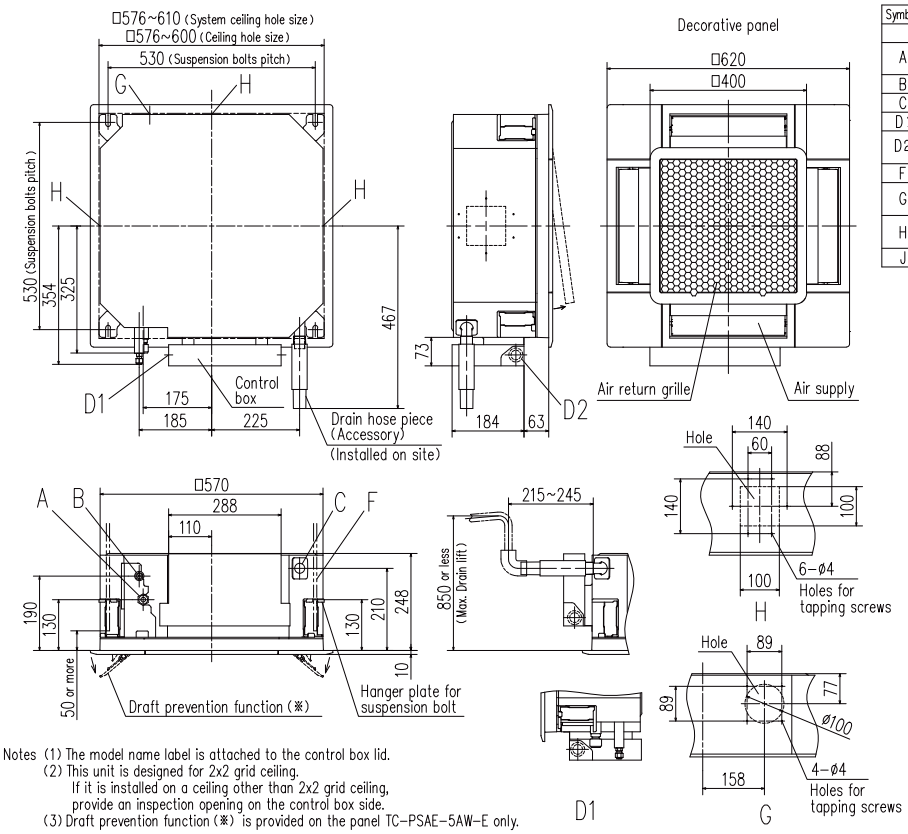
8 patterns of panel are available. Please refer to P27.



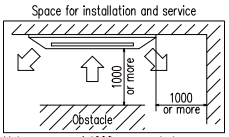
OUTDOOR UNIT

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

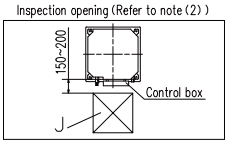
DIMENSIONS (Unit:mm)



Symbol	Content		
	Model	25,35	40,50,60
A	Gas piping	ø9.52 (3/8") (Flare)	ø12.7 (1/2") (Flare)
B	Liquid piping	ø6.35 (1/4") (Flare)	
C	Drain piping	VP25 (O.D.32)	
D1	Power supply connection		
D2	Remote control code and signal wiring connection		
F	Suspension bolts	(M10 or M8)	
G	Outside air opening for ducting	(Knock out)	
H	Air outlet opening for ducting	ø125 (Knock out)	
J	Inspection opening	450X450	



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



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

SPECIFICATIONS

				Hyper Inverter		
Set model name				FDTC40ZSXVG	FDTC50ZSXVG	FDTC60ZSXVG
Indoor unit				FDTC40VG	FDTC50VG	FDTC60VG
Outdoor unit				SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)
Nominal heating capacity (Min~Max)			kW	4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 6.7)
Power consumption		Cooling/Heating	kW	0.98 / 1.13	1.43 / 1.53	1.76 / 2.14
EER/COP		Cooling/Heating		4.08 / 3.98	3.50 / 3.53	3.18 / 3.13
Inrush current			A	5	5	5
Max. current				12	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
		Heating (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
		Heating (P-Hi/Hi/Me/Lo)		13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	Cooling/Heating		36 / 33	40 / 33	41.5 / 39
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor			640 x 800(+71) x 290		
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)		
	Outdoor			45		
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")		
Refrigerant line (one way) length			m	Max.30		
Vertical height differences	Outdoor is higher/lower		m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling		°C	-15~46*3		
	Heating			-20~24		
Panel				TC-PSA-5AW-E, TC-PSAE-5AW-E		
Air filter, Q'ty				Pocket plastic net x 1(Washable)		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2		

The values are for simultaneous Multi operation.

				Hyper Inverter						
Set model name				FDTC71VNXPVG	FDTC100VNXPVG	FDTC125VNXPVG	FDTC140VNXTVG	FDTC100VSXPVG	FDTC125VSXPVG	FDTC140VSXTVG
				Twin			Triple	Twin		Triple
Indoor unit				FDTC40VG x 2	FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3	FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	2.03 / 1.64	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34	2.80 / 3.50	4.10 / 4.10	4.20 / 4.34
EER/COP		Cooling/Heating		3.50 / 4.88	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69	3.57 / 3.20	3.05 / 3.41	3.33 / 3.69
Inrush current			A	5	5	5	5	5	5	5
Max. current				17	24	24	26	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	59 / 59	59 / 59	60 / 60	59 / 59	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
		Heating (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)		13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620						
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370					
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)						
	Outdoor			60	105					
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50	Max.100					
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15						
Outdoor operating temperature range	Cooling		°C	-15~43*3						
	Heating			-20~20						
Panel				TC-PSA-5AW-E, TC-PSAE-5AW-E						
Air filter, Q'ty				Pocket plastic net x 1(Washable)						
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2						

NOTES:

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

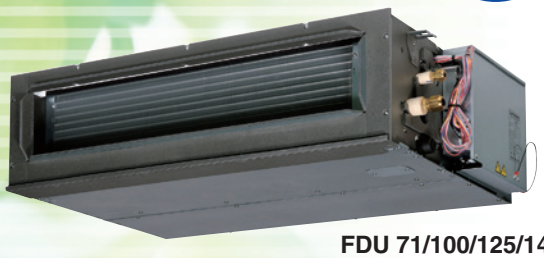
				Micro Inverter		
Set model name				FDTC100VNAPVG	FDTC125VNAPVG	FDTC140VNATVG
				Twin		Triple
Indoor unit				FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	3.30 / 3.15	4.90 / 4.50	4.75 / 4.60
EER/COP		Cooling/Heating		3.03 / 3.56	2.55 / 3.11	2.86 / 3.37
Inrush current			A	5	5	5
Max. current				25	25	25
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	59 / 59	60 / 60	59 / 59
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
		Heating (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)		13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620		
	Outdoor			845 x 970 x 370		
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)		
	Outdoor			80		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.50		
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15		
Outdoor operating temperature range		Cooling	°C	-15~50*3		
		Heating		-20~20		
Panel				TC-PSA-5AW-E, TC-PSAE-5AW-E		
Air filter, Q'ty				Pocket plastic net x 1(Washable)		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3, wireless:RCN-TC-5AW-E2		

The values are for simultaneous Multi operation.

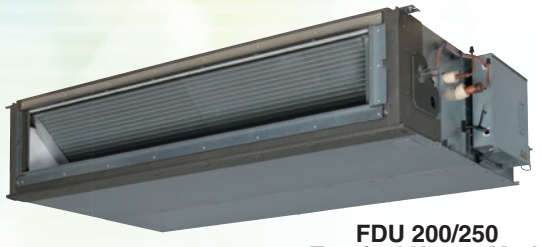
				Micro Inverter				
Set model name				FDTC100VSAPVG	FDTC125VSAPVG	FDTC140VSATVG	FDTC200VSADVG	FDTC250VSADVG
				Twin		Triple	Double Twin	
Indoor unit				FDTC50VG x 2	FDTC60VG x 2	FDTC50VG x 3	FDTC50VG x 4	FDTC60VG x 4
Outdoor unit				FDC100VSA	FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption		Cooling/Heating	kW	3.30 / 3.15	4.90 / 4.50	4.75 / 4.60	6.95 / 10.7	6.79 / 8.20
EER/COP		Cooling/Heating		3.03 / 3.56	2.55 / 3.11	2.86 / 3.37	2.73 / 2.10	3.53 / 3.29
Inrush current			A	5	5	5	5	5
Max. current				15	15	15	20	21
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	59 / 59	60 / 60	59 / 59	59 / 59	60 / 60
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	72 / 74	75 / 75
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
		Heating (P-Hi/Hi/Me/Lo)		44 / 40 / 35 / 27	46 / 42 / 38 / 31	44 / 40 / 35 / 27	44 / 40 / 35 / 27	46 / 42 / 38 / 31
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	58 / 59	61 / 62
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
		Heating (P-Hi/Hi/Me/Lo)		13 / 11 / 9 / 7	14 / 12 / 10 / 8	13 / 11 / 9 / 7	13 / 11 / 9 / 7	14 / 12 / 10 / 8
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	Unit: 248 x 570 x 570 Panel: 10 x 620 x 620				
	Outdoor			845 x 970 x 370			1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		kg	16.5(Unit:14 Standard Panel:2.5)				
	Outdoor			82			115	143
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.50			Max.70	
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15			Max.30 / Max.15	
Outdoor operating temperature range		Cooling	°C	-15~50*3				
		Heating		-20~20			-15~20	
Panel				TC-PSA-5AW-E, TC-PSAE-5AW-E				
Air filter, Q'ty				Pocket plastic net x 1(Washable)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-TC-5AW-E2				

DUCT CONNECTED -High Static pressure-

FDU



FDU 71/100/125/140



FDU 200/250
Tropical Usage Mode

Energy Saving | Hi Power | Silent Operation | Automatic Operation | Weekly/Sleep/Peak-Cut Timer | Self-Diagnostics

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

Remote control (option)

Wired

RC-EX3A

RC-E5

RCH-E3

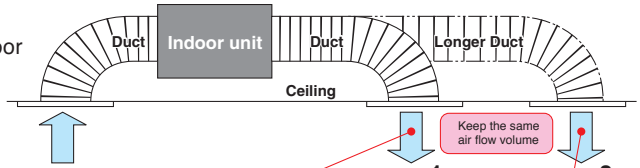
Wireless

RCN-KIT4-E2

Point 1 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.

RC-E5
E.S.P. button
External Static Pressure (E.S.P.) can be set by E.S.P. button.



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

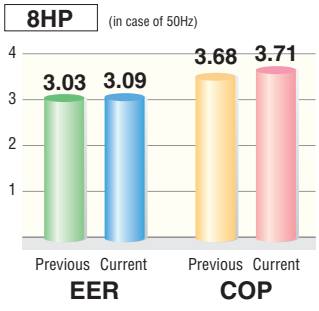
Point 2 More quiet noise

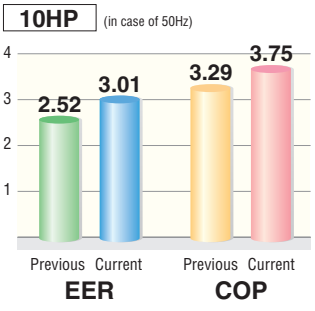
Thanks to use of DC fan motor, fan steps increase from two to four and quiet operation is achieved.(FDU200/250)

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

Point 3 High efficiency

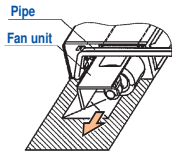
Energy efficiency is improved by use of DC fan motor & high efficient heat exchanger.





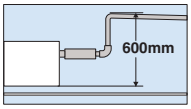
Point 4 Improvement of the serviceability

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.



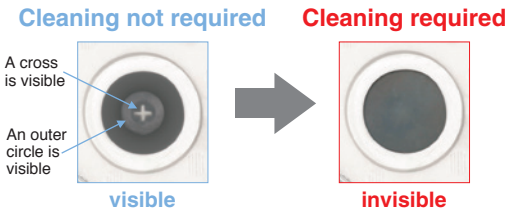
Point 5 Enhanced installation workability

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.



Point 6 Transparent inspection window

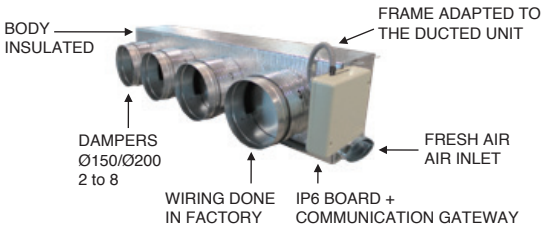
Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.



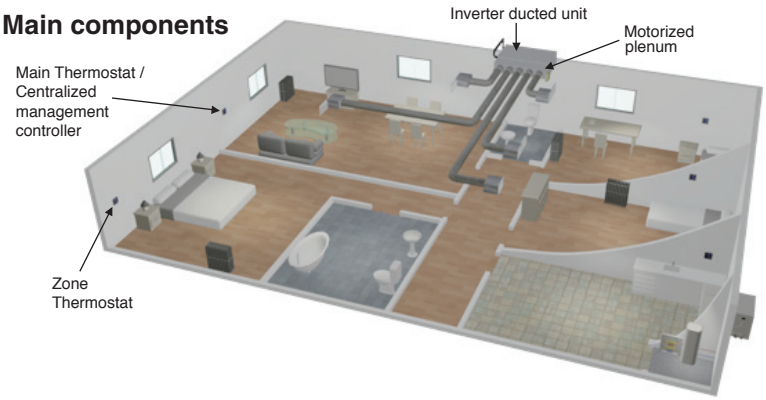
Round duct adapter (Available for FDU71~140VF)

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

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



Main components



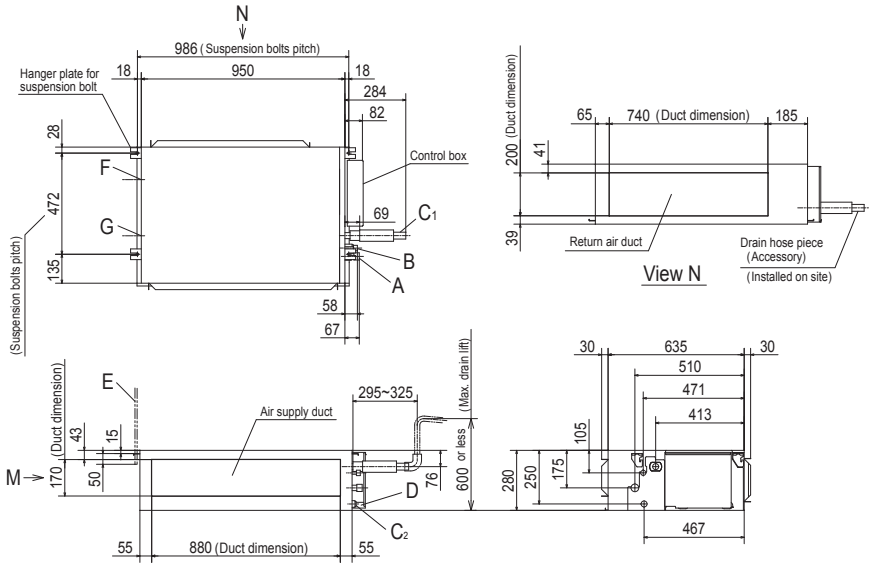
OUTDOOR UNIT

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

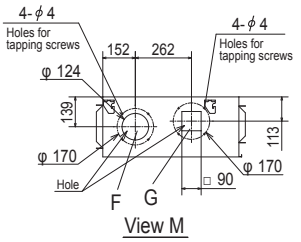
	Standard Inverter		
FDC	71VNP	90VNP1	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm)

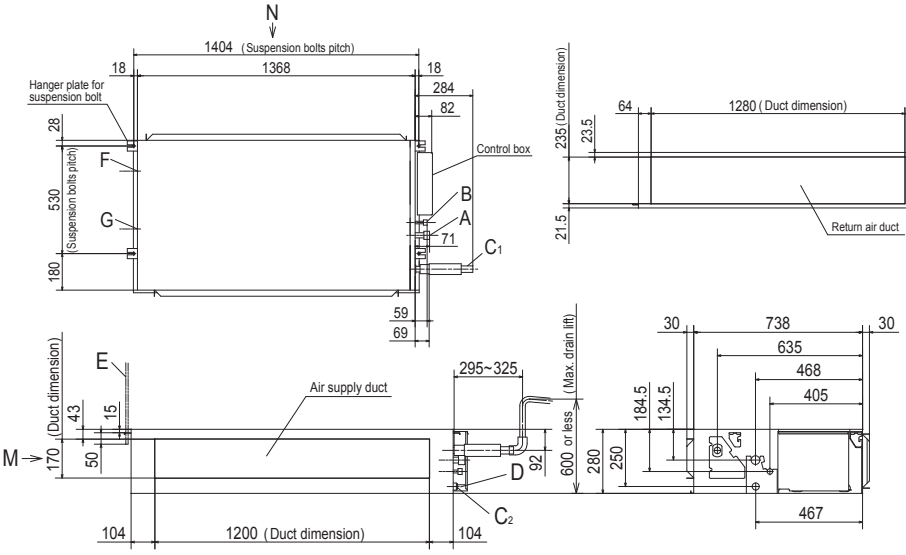
Model FDU71VF1



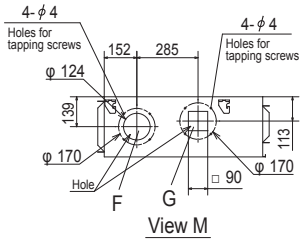
Symbol	Content	
A	Gas piping	φ 15.88 (5/8")(Flare)
B	Liquid piping	φ 9.52 (3/8")(Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20,O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
H	Inspection hole	(450X450)



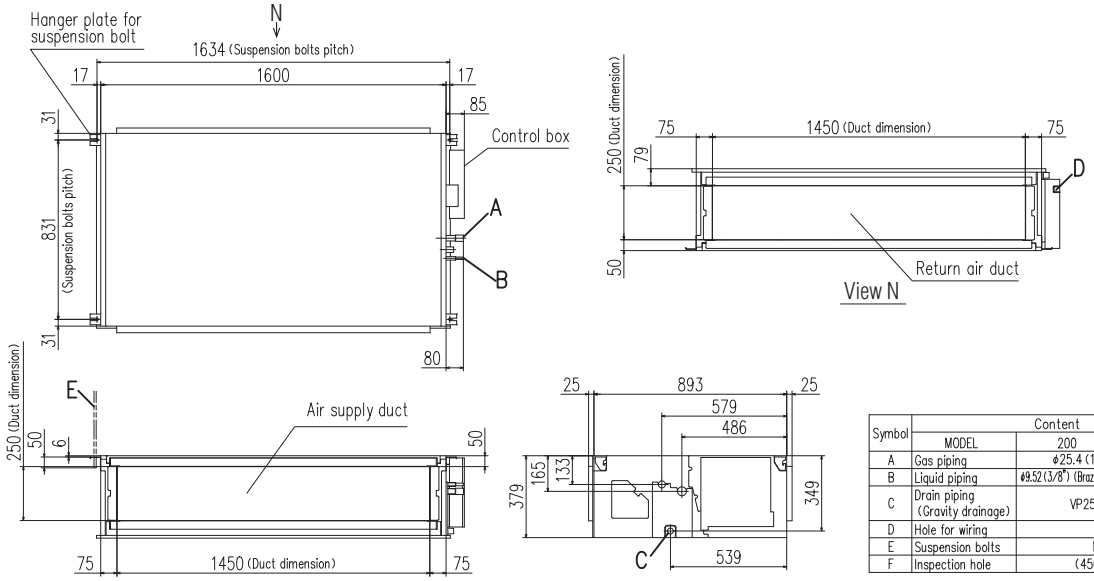
Models FDU100VF2,125VF,140VF



Symbol	Content	
A	Gas piping	φ 15.88 (5/8")(Flare)
B	Liquid piping	φ 9.52 (3/8")(Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20,O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
H	Inspection hole	(450X450)



Models FDU200VG, 250VG



Symbol	Content		
	MODEL	200	250
A	Gas piping	φ25.4 (1") (Brazing)	
B	Liquid piping	φ9.52 (3/8") (Brazing)	φ12.7 (1/2") (Brazing)
C	Drain piping (Gravity drainage)	VP25 (O.D.32)	
D	Hole for wiring		
E	Suspension bolts	M10	
F	Inspection hole	(450X450)	

SPECIFICATIONS

				Hyper Inverter			
Set model name				FDU71VNXVF1	FDU100VNXVF2	FDU125VNXVF	FDU140VNXVF
Indoor unit				FDU71VF1	FDU100VF2	FDU125VF	FDU140VF
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating	kW	2.05 / 2.01	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP		Cooling/Heating		3.46 / 3.98	3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current			A	5	5	5	5
Max. current				17	25	29	30
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Heating (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100
External static pressure*2			Pa	Standard:35 Max:200	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635	280 x 1,370 x 740		
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370		
Net weight	Indoor		kg	34	54		
	Outdoor			60	105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.50	Max.100		
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range		Cooling	°C	-15~43*3			
		Heating		-20~20			
Air filter				Procure locally			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

				Hyper Inverter		
Set model name				FDU100VSXVF2	FDU125VSXVF	FDU140VSXVF
Indoor unit				FDU100VF2	FDU125VF	FDU140VF
Outdoor unit				FDC100VSX	FDC125VSX	FDC140VSX
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	2.68 / 3.02	3.49 / 3.77	4.28 / 4.42
EER/COP		Cooling/Heating		3.73 / 3.71	3.58 / 3.71	3.27 / 3.62
Inrush current			A	5	5	5
Max. current				16	18	19
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Heating (P-Hi/Hi/Me/Lo)		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100
External static pressure*2			Pa	Standard:60 Max:200		
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740		
	Outdoor			1,300 x 970 x 370		
Net weight	Indoor		kg	54		
	Outdoor			105		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		
Refrigerant line (one way) length			m	Max.100		
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15		
Outdoor operating temperature range		Cooling	°C	-15~43*3		
		Heating		-20~20		
Air filter				Procure locally		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

NOTES:

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

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

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

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

SPECIFICATIONS

				Micro Inverter					
Set model name				FDU100VNAVF2	FDU125VNAVF	FDU140VNAVF	FDU100VSAVF2	FDU125VSAVF	FDU140VSAVF
Indoor unit				FDU100VF2	FDU125VF	FDU140VF	FDU100VF2	FDU125VF	FDU140VF
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP		Cooling/Heating		3.52 / 4.03	2.87 / 3.79	2.76 / 3.68	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current			A	5	5	5	5	5	5
Max. current				26	26	27	17	17	18
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Heating (P-Hi/Hi/Me/Lo)		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*2			Pa	Standard:60 Max:200					
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740					
	Outdoor			845 x 970 x 370					
Net weight	Indoor		kg	54					
	Outdoor			80			82		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.50					
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15					
Outdoor operating temperature range		Cooling	°C	-15~50*3					
		Heating		-20~20					
Air filter				Procure locally					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

				Micro Inverter		Standard Inverter		
Set model name				FDU200VSAVG	FDU250VSAVG	FDU71VNPVF1	FDU90VNP1VF2	FDU100VNP1VF2
Indoor unit				FDU200VG	FDU250VG	FDU71VF1	FDU100VF2	FDU100VF2
Outdoor unit				FDC200VSA	FDC250VSA	FDC71VNP	FDC90VNP1	FDC100VNP
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz		1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption		Cooling/Heating	kW	6.15 / 6.03	7.98 / 7.20	2.60 / 1.89	2.69 / 2.25	3.00 / 2.93
EER/COP		Cooling/Heating		3.09 / 3.71	3.01 / 3.75	2.73. / 3.76	3.35 / 4.00	3.33 / 3.82
Inrush current			A	5	5	5	5	5
Max. current				25	27	14.5	18.0	22.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	75 / 75	75 / 75	65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating		72 / 74	73 / 75	67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		52 / 50 / 47 / 45	52 / 50 / 47 / 45	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)		52 / 50 / 47 / 45	52 / 50 / 47 / 45	38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating		57 / 59	59 / 62	54 / 54	57 / 55	57 / 61
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	80 / 72 / 64 / 56	80 / 72 / 64 / 56	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
		Heating (P-Hi/Hi/Me/Lo)		80 / 72 / 64 / 56	80 / 72 / 64 / 56	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
	Outdoor	Cooling/Heating		135 / 135	143 / 151	36 / 36	63 / 49.5	75 / 79
External static pressure*2			Pa	Standard:72 Max:200		Standard:35 Max:200	Standard:60 Max:200	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	379 x 1,600 x 893		280 x 950 x 635	280 x 1,370 x 740	
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	89		34	54	
	Outdoor			115	143	45	57	70
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 25.4(1")	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.70		Max.30		
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15		Max.20 / Max.20		
Outdoor operating temperature range		Cooling	°C	-15~50*3		-15~46*3		
		Heating		-15~20		-15~20		
Air filter				Procure locally		Procure locally		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

NOTES:

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

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

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

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

DUCT CONNECTED -Low/Middle Static pressure-

FDUM

R410A

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

Remote control (option)

Wired			Wireless	
				
RC-EX3A	RC-E5	RCH-E3	RCN-KIT4-E2	

Filter kit (option)

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

Energy Saving | Hi Power | Silent Operation | Automatic Operation | Weekly/Sleep/Peak-Cut Timer | Self-Diagnostics

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

Point 1 Thin design

The height of all FDUM models is only 280mm.

FDUM100/125/140VF

70mm less

H 350mm → H 280mm

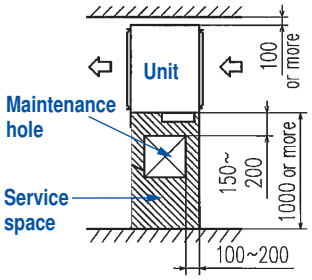
FDUM40/50/60/71VF

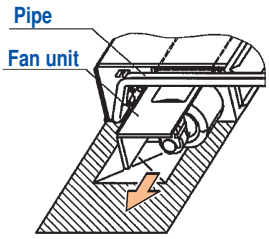
19mm less

H 299mm → H 280mm

Point 2 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.

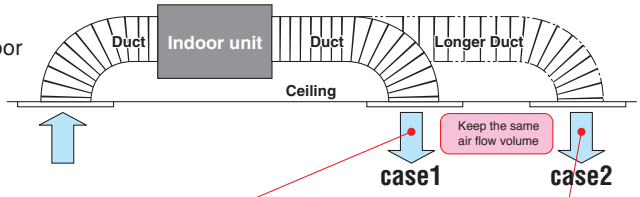




Point 3 Automatic external static pressure (E.S.P.) control

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.

RC-E5
E.S.P. button
External Static Pressure (E.S.P.) can be set by E.S.P. button.



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

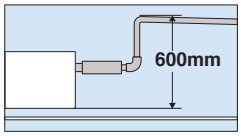
Current
10~200Pa

Point 4 Transparent inspection window

Dirt condition of the bottom of a drain pan can be checked through this transparent inspection window without removing drain pan.(Please refer to P39)

Point 5 Enhanced installation workability

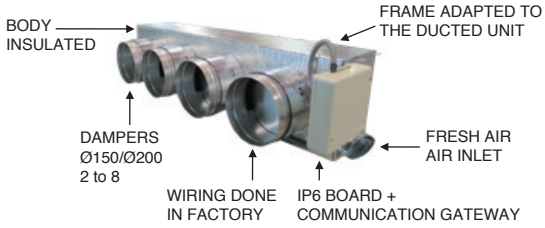
600mm Drain Pump is mounted in all models.
The indoor unit is completely hidden in the ceiling, so this is suitable for spaces with classy interior decoration.



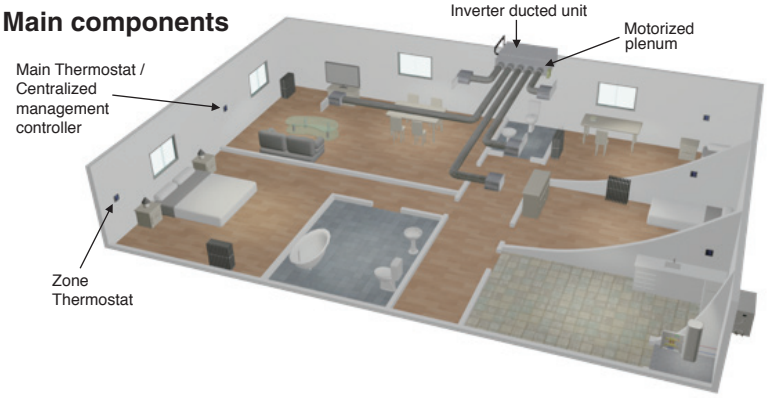
Round duct adapter

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

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



Main components



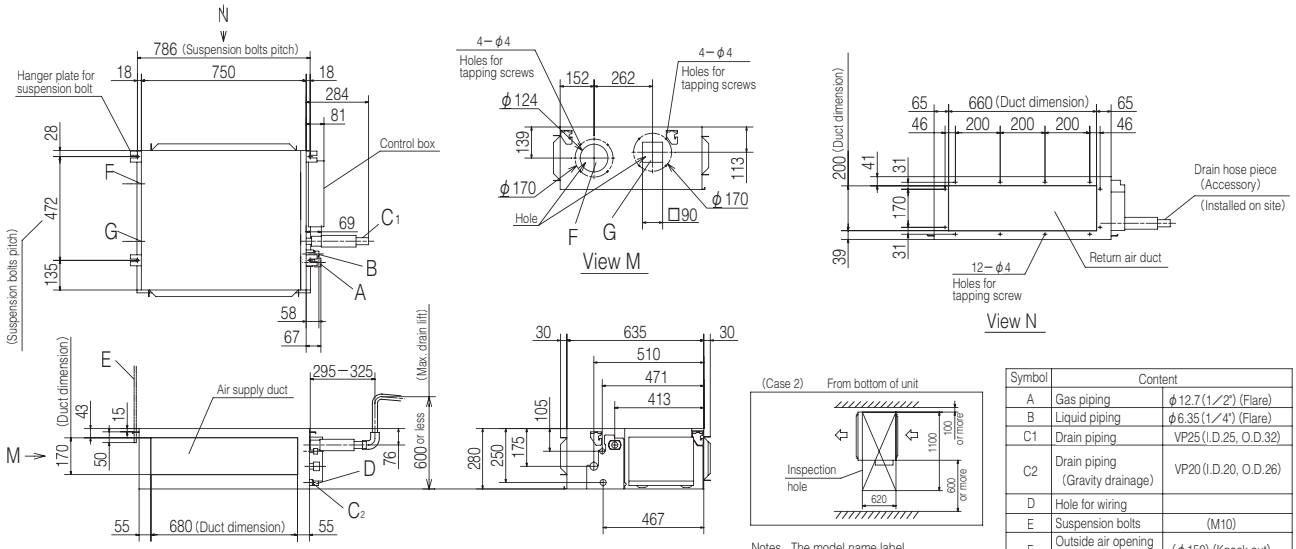
OUTDOOR UNIT

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

	Standard Inverter		
FDC	71VNP	90VNP1	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

DIMENSIONS (Unit:mm)

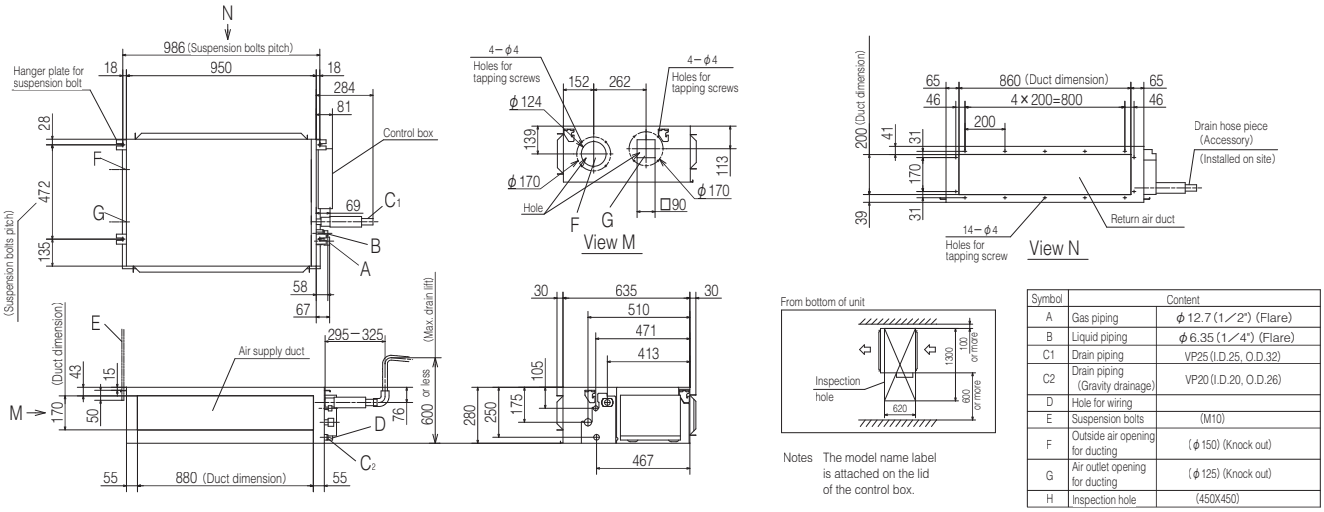
Models FDUM40VF, FDUM50VF



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

Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C1	Drain piping	VP25 (I.D.25, O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20, O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)
H	Inspection hole	(450X450)

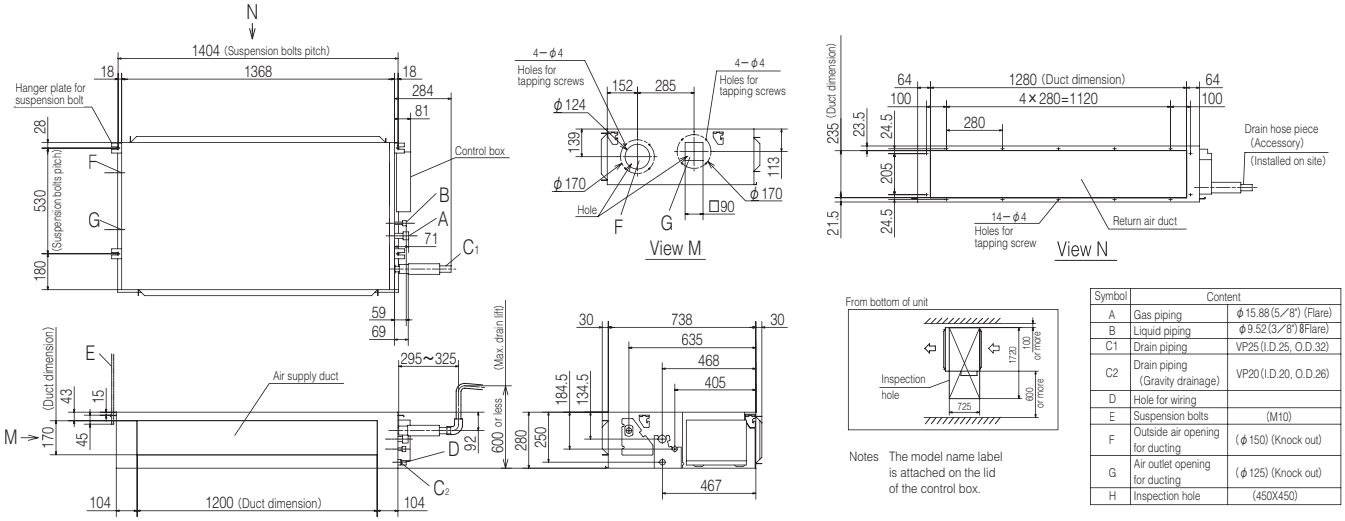
Models FDUM60VF,71VF1



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

Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C1	Drain piping	VP25 (I.D.25, O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20, O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)
H	Inspection hole	(450X450)

Models FDUM100VF2,125VF,140VF



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

Symbol	Content	
A	Gas piping	φ15.88 (5/8") (Flare)
B	Liquid piping	φ9.52 (3/8") 8Flare)
C1	Drain piping	VP25 (I.D.25, O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20, O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ150) (Knock out)
G	Air outlet opening for ducting	(φ125) (Knock out)
H	Inspection hole	(450X450)

SPECIFICATIONS

				Hyper Inverter				
Set model name				FDUM40ZSXVF	FDUM50ZSXVF	FDUM60ZSXVF	FDUM71VNXVF1	FDUM100VNXVF2
Indoor unit				FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1	FDUM100VF2
Outdoor unit				SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 7.1)	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)
Power consumption		Cooling/Heating	kW	0.952 / 1.07	1.38 / 1.45	1.54 / 1.75	2.03 / 1.99	2.68 / 3.02
EER/COP		Cooling/Heating		4.20 / 4.21	3.62 / 3.72	3.64 / 3.83	3.50 / 4.02	3.73 / 3.71
Inrush current			A	5	5	5	5	5
Max. current				12	15	15	17	24
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	65 / 65	65 / 65
	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64	66 / 66	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52	51 / 48	48 / 50
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19
	Outdoor	Cooling/Heating		36 / 33	40 / 33	41.5 / 39	60 / 50	100 / 100
External static pressure*3			Pa	Standard:35 Max:100				Standard:60 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 1,370 x 740
	Outdoor			640 x 800(+71) x 290			750 x 880(+88) x 340	1,300 x 970 x 370
Net weight	Indoor		kg	29		34		54
	Outdoor			45			60	105
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")			9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.30			Max.50	Max.100
Vertical height differences	Outdoor is higher/lower		m	Max.20 / Max.20			Max.30 / Max.15	
Outdoor operating temperature range	Cooling		°C	-15~46*4			-15~43*4	
	Heating			-20~24			-20~20	
Air filter				Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

				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	5	5	5	5	5
Max. current				26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Heating (P-Hi/Hi/Me/Lo)		39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
External static pressure*3			Pa	Standard:60 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740				
	Outdoor			1,300 x 970 x 370				
Net weight	Indoor		kg	54				
	Outdoor			105				
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.100				
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling		°C	-15~43*4				
	Heating			-20~20				
Air filter				Filter kit : UM-FL3EF (option)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

NOTES:

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

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

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

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

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name				Hyper Inverter				
				FDUM71VNXPVF	FDUM100VNXPVF	FDUM125VNXPVF	FDUM140VNXPVF1	FDUM140VNXTVF
				Twin				Triple
Indoor unit				FDUM40VF x 2	FDUM50VF x 2	FDUM60VF x 2	FDUM71VF1 x 2	FDUM50VF x 3
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating	kW	2.01 / 1.91	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69
EER/COP		Cooling/Heating		3.53 / 4.19	3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41
Inrush current			A	5	5	5	5	5
Max. current				17	24	26	26	26
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 8	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
External static pressure*3			Pa	Standard:35 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635		280 x 950 x 635		280 x 750 x 635
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor		kg	29		34		29
	Outdoor			60	105			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50	Max.100			
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15				
Outdoor operating temperature range	Cooling		°C	-15~43*4				
	Heating			-20~20				
Air filter				Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

The values are for simultaneous Multi operation.

Set model name				Hyper Inverter			
				FDUM100VSXPVF	FDUM125VSXPVF	FDUM140VSXPVF1	FDUM140VSXTVF
				Twin			Triple
Indoor unit				FDUM50VF x 2	FDUM60VF x 2	FDUM71VF1 x 2	FDUM50VF x 3
Outdoor unit				FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	2.66 / 3.02	3.26 / 3.66	4.36 / 4.35	4.21 / 4.69
EER/COP		Cooling/Heating		3.76 / 3.71	3.83 / 3.83	3.21 / 3.68	3.33 / 3.41
Inrush current			A	5	5	5	5
Max. current				15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100
External static pressure*3			Pa	Standard:35 Max:100			
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635	280 x 950 x 635		280 x 750 x 635
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	29	34		29
	Outdoor			105			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.100			
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15			
Outdoor operating temperature range	Cooling		°C	-15~43*4			
	Heating			-20~20			
Air filter				Filter kit : UM-FL1EF / UM-FL2EF (option)			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2			

SPECIFICATIONS

				Micro Inverter					
Set model name				FDUM100VNAVF2	FDUM125VNAVF	FDUM140VNAVF	FDUM100VSAVF2	FDUM125VSAVF	FDUM140VSAVF
Indoor unit				FDUM100VF2	FDUM125VF	FDUM140VF	FDUM100VF2	FDUM125VF	FDUM140VF
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21	2.84 / 2.78	4.36 / 3.69	4.93 / 4.21
EER/COP		Cooling/Heating		3.52 / 4.03	2.87 / 3.79	2.76 / 3.68	3.52 / 4.03	2.87 / 3.79	2.76 / 3.68
Inrush current			A	5	5	5	5	5	5
Max. current				26	26	27	17	17	18
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	67 / 67	70 / 70	65 / 65	67 / 67	70 / 70
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
		Heating (P-Hi/Hi/Me/Lo)		44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30	44 / 38 / 36 / 30	45 / 40 / 34 / 29	47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
		Heating (P-Hi/Hi/Me/Lo)		36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22	36 / 28 / 25 / 19	39 / 32 / 26 / 20	48 / 35 / 28 / 22
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*3			Pa	Standard:60 Max:100					
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 1,370 x 740					
	Outdoor			845 x 970 x 370					
Net weight	Indoor		kg	54					
	Outdoor			80			82		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.50					
Vertical height differences	Outdoor is higher/lower		m	Max.50 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~50*4					
	Heating			-20~20					
Air filter				Filter kit : UM-FL3EF (option)					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

The values are for simultaneous Multi operation.

				Micro Inverter				
Set model name				FDUM100VNAPVF	FDUM125VNAPVF	FDUM140VNAPVF1	FDUM140VNATVF	FDUM100VSAPVF
				Twin			Triple	Twin
Indoor unit				FDUM50VF x 2	FDUM60VF x 2	FDUM71VF1 x 2	FDUM50VF x 3	FDUM50VF x 2
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA	FDC100VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)
Power consumption		Cooling/Heating	kW	3.25 / 3.21	4.53 / 3.75	5.02 / 4.20	5.02 / 4.20	3.25 / 3.21
EER/COP		Cooling/Heating		3.08 / 3.49	2.76 / 3.73	2.71 / 3.69	2.71 / 3.69	3.08 / 3.49
Inrush current			A	5	5	5	5	5
Max. current				26	26	27	27	17
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	65 / 65	60 / 60	60 / 60
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	73 / 73	70 / 70
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26	37 / 32 / 29 / 26
		Heating (P-Hi/Hi/Me/Lo)		37 / 32 / 29 / 26	36 / 31 / 28 / 25	38 / 33 / 29 / 25	37 / 32 / 29 / 26	37 / 32 / 29 / 26
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	57 / 59	54 / 56
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8	13 / 10 / 9 / 8
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 8	20 / 15 / 13 / 10	24 / 19 / 15 / 10	13 / 10 / 9 / 8	13 / 10 / 9 / 8
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
External static pressure*3			Pa	Standard:35 Max:100				
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 750 x 635	280 x 950 x 635		280 x 750 x 635	
	Outdoor			845 x 970 x 370				
Net weight	Indoor		kg	29	34		29	
	Outdoor			80				82
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.50				
Vertical height differences	Outdoor is higher/lower		m	Max.50 / Max.15				
Outdoor operating temperature range	Cooling		°C	-15~50*4				
	Heating			-20~20				
Air filter				Filter kit : UM-FL1EF / UM-FL2EF (option)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2				

NOTES:

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter					
Set model name				FDUM125VSAPVF	FDUM140VSAPVF1	FDUM200VSAPVF2	FDUM250VSAPVF	FDUM140VSATVF	FDUM200VSATVF1
				Twin				Triple	
Indoor unit				FDUM60VF x 2	FDUM71VF1 x 2	FDUM100VF2 x 2	FDUM125VF x 2	FDUM50VF x 3	FDUM71VF1 x 3
Outdoor unit				FDC125VSA	FDC140VSA	FDC200VSA	FDC250VSA	FDC140VSA	FDC200VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz					
Nominal cooling capacity (Min~Max)			kW	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	13.6 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)
Nominal heating capacity (Min~Max)			kW	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	15.5 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)
Power consumption		Cooling/Heating	kW	4.53 / 3.75	5.02 / 4.20	6.51 / 6.04	8.33 / 7.52	5.02 / 4.20	6.46 / 6.15
EER/COP		Cooling/Heating		2.76 / 3.73	2.71 / 3.69	2.92 / 3.71	2.88 / 3.59	2.71 / 3.69	2.94 / 3.64
Inrush current			A	5	5	5	5	5	5
Max. current				17	18	22	24	18	22
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	65 / 65	65 / 65	67 / 67	60 / 60	65 / 65
	Outdoor	Cooling/Heating		71 / 71	73 / 73	72 / 74	73 / 75	73 / 73	72 / 74
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	37 / 32 / 29 / 26	38 / 33 / 29 / 25
		Heating (P-Hi/Hi/Me/Lo)		36 / 31 / 28 / 25	38 / 33 / 29 / 25	44 / 38 / 36 / 30	45 / 40 / 34 / 29	37 / 32 / 29 / 26	38 / 33 / 29 / 25
	Outdoor	Cooling/Heating		55 / 57	57 / 59	58 / 59	59 / 62	57 / 59	58 / 59
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	13 / 10 / 9 / 8	24 / 19 / 15 / 10
		Heating (P-Hi/Hi/Me/Lo)		20 / 15 / 13 / 10	24 / 19 / 15 / 10	36 / 28 / 25 / 19	39 / 32 / 26 / 20	13 / 10 / 9 / 8	24 / 19 / 15 / 10
	Outdoor	Cooling/Heating		75 / 73	75 / 73	135 / 135	143 / 151	75 / 73	135 / 135
External static pressure*3			Pa	Standard:35 Max:100		Standard:60 Max:100		Standard:35 Max:100	Standard:35 Max:100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635		280 x 1,370 x 740		280 x 750 x 635	280 x 950 x 635
	Outdoor			845 x 970 x 370		1,300 x 970 x 370	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			82		115	143	82	115
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.50		Max.70		Max.50	Max.70
Vertical height differences	Outdoor is higher/lower		m	Max.50 / Max.15		Max.30 / Max.15		Max.50 / Max.15	Max.30 / Max.15
Outdoor operating temperature range	Cooling		°C	-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-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2					

				Standard Inverter		
Set model name				FDUM71VNPVF1	FDUM90VNP1VF2	FDUM100VNP1VF2
Indoor unit				FDUM71VF1	FDUM100VF2	FDUM100VF2
Outdoor unit				FDC71VNP	FDC90VNP1	FDC100VNP
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption		Cooling/Heating	kW	2.60 / 1.89	2.69 / 2.25	3.00 / 2.93
EER/COP		Cooling/Heating		2.73 / 3.76	3.35 / 4.00	3.33 / 3.82
Inrush current			A	5	5	5
Max. current				14.5	18.0	22.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	65 / 65	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
		Heating (P-Hi/Hi/Me/Lo)		38 / 33 / 29 / 25	44 / 38 / 36 / 30	44 / 38 / 36 / 30
	Outdoor	Cooling/Heating		54 / 54	57 / 55	57 / 61
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
		Heating (P-Hi/Hi/Me/Lo)		24 / 19 / 15 / 10	36 / 28 / 25 / 19	36 / 28 / 25 / 19
	Outdoor	Cooling/Heating		36 / 36	63 / 49.5	75 / 79
External static pressure*3			Pa	Standard:35 Max:100	Standard:60 Max:100	
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	280 x 950 x 635	280 x 1,370 x 740	
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	34	54	
	Outdoor			45	57	70
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.30		
Vertical height differences	Outdoor is higher/lower		m	Max.20 / Max.20		
Outdoor operating temperature range	Cooling		°C	-15~46*4		
	Heating			-15~20		
Air filter				Filter kit : UM-FL2EF / UM-FL3EF (option)		
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2		

WALL MOUNTED
SRK

R410A

Only used with Multi System.

SRK 50•60

Common to the both case of Single and Multi

SRK 100

Energy Saving | Home Leave | Hi Power | Silent Operation | Flap Control | Weekly Timer

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

Wired remote control (Option)

RC-EX3A

RC-E5

RCH-E3

Point 1 Elegant Timeless Design

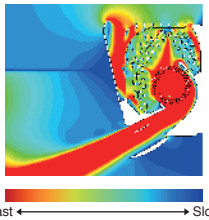
The new SRK series air-conditioners have been stylishly designed with rounded contours that fit beautifully into any of Europe's diverse interior settings.
The design was created by the Italian industrial design studio Tensa srl, based in Milan, to respond to a broad spectrum of local user needs.

Point 2 Jet Technology

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

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

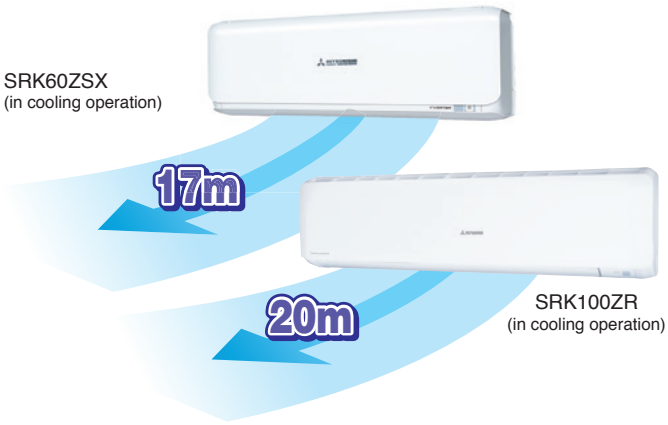
(C) Mitsubishi Aircraft Corporation



Colors in the figure show the air speed.

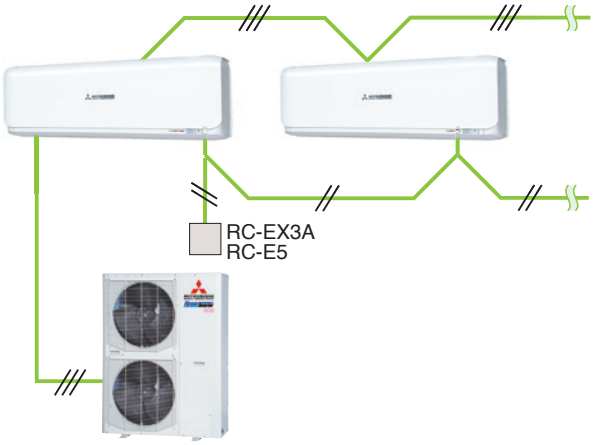
Point 3 Long Reach Air Flow

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



Point 4 Indoor unit connection

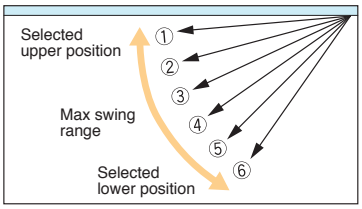
Max three indoor units are connectable to one outdoor unit.



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

Point 5 Flap control system

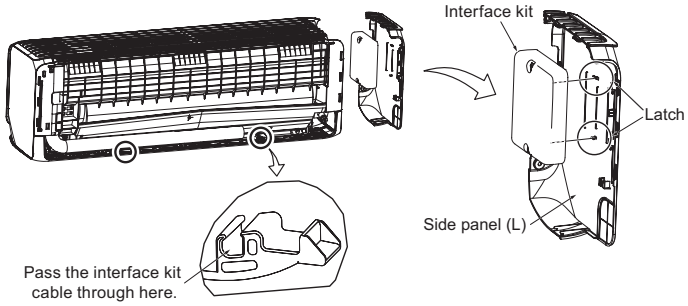
The flap can swing within the range of upper and lower flap position selected.



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

Point 6 SC-BIKN2-E connection (option)

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

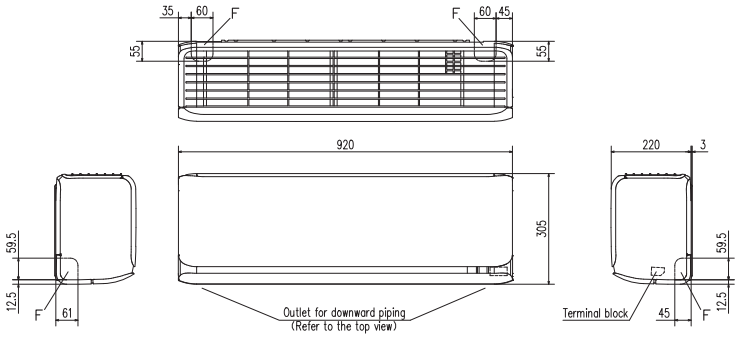


OUTDOOR UNIT

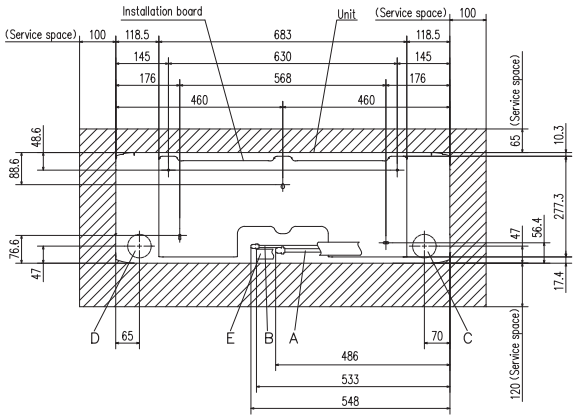
	Hyper Inverter	Micro Inverter		Standard Inverter
FDC	100~140VN(S)X	100~140VN(S)A	200VSA	100VNP
model				
Chargeless	30m	30m	30m	15m
Height x Width x Depth (mm)	1,300 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370	845 x 970 x 370

DIMENSIONS (Unit:mm)

SRK50ZSX-W, 60ZSX-W

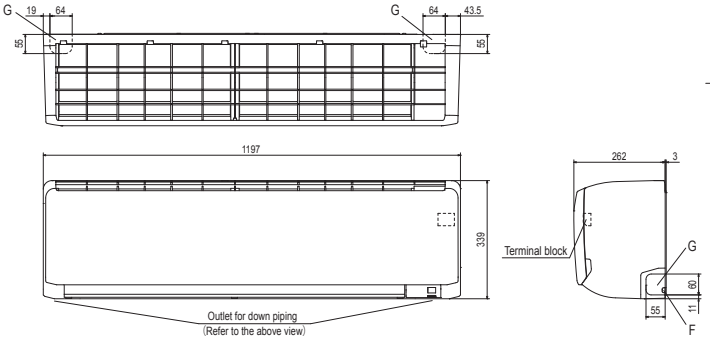


Symbol	Content	
A	Gas piping	ϕ12.7 (1/2") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)
C	Hole on wall for right rear piping	(ϕ65)
D	Hole on wall for left rear piping	(ϕ65)
E	Drain hose	VP16
F	Outlet for piping	

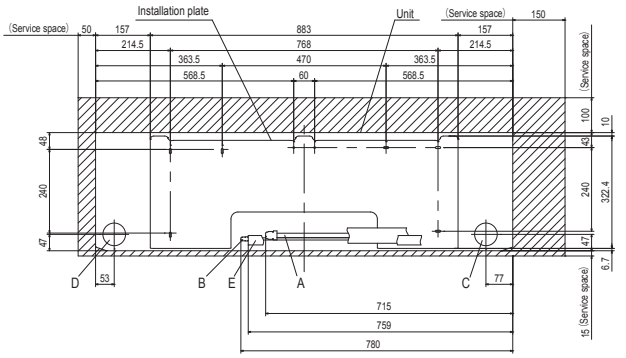


Space for installation and service when viewing from the front

SRK100ZR-S



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



Space for installation and service when viewing from the front

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name				Hyper Inverter					
				SRK100VNXPZSX	SRK125VNXPZSX	SRK140VNXTZSX	SRK100VSXPZSX	SRK125VSXPZSX	SRK140VSXTZSX
				Twin		Triple	Twin		Triple
Indoor unit				SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3	SRK50ZSX-W x 2	SRK60ZSX-W x 2	SRK50ZSX-W x 3
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	dB(A)	59 / 62	62 / 63	59 / 62	59 / 62	62 / 63	59 / 62
	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)		44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22	44 / 39 / 31 / 22	46 / 41 / 33 / 22	44 / 39 / 31 / 22
		Heating (Hi/Me/Lo/Ulo)		46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23	46 / 41 / 33 / 23	46 / 42 / 34 / 23	46 / 41 / 33 / 23
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
Air flow	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	m^3/min	14.3/ 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4	14.3/ 12.4 / 7.8 / 5.4	16.3 / 13.4 / 8.9 / 5.4	14.3 / 12.4 / 7.8 / 5.4
		Heating (Hi/Me/Lo/Ulo)		17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2	17.3 / 14.3 / 9.8 / 6.2	17.8 / 13.7 / 10.9 / 6.2	17.3 / 14.3 / 9.8 / 6.2
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	305 x 920 x 220					
	Outdoor			1,300 x 970 x 370					
Net weight	Indoor		kg	13					
	Outdoor			105					
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.100					
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15					
Outdoor operating temperature range	Cooling		°C	-15~43*3					
	Heating			-20~20					
Air filter, Q'ty				Polypropylene net x 2(washable)					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E					

Set model name				Micro Inverter	
				SRK100VNAZR	SRK100VSAZR
Indoor unit				SRK100ZR-S	SRK100ZR-S
Outdoor unit				FDC100VNA	FDC100VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	11.2 (4.0 ~ 12.5)
Power consumption		Cooling/Heating	kW	3.19 / 2.78	3.19 / 2.78
EER/COP		Cooling/Heating		3.13 / 4.03	3.13 / 4.03
Inrush current			A	5	5
Max. current				24	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	63 / 63	63 / 63
	Outdoor	Cooling/Heating		70 / 70	70 / 70
Sound pressure level*1	Indoor	Cooling (Hi/Me/Lo/Ulo)		48 / 45 / 40 / 27	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)		48 / 43 / 38 / 30	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating		54 / 56	54 / 56
Air flow	Indoor	Cooling (Hi/Me/Lo/Ulo)	m^3/min	24.5 / 21.3 / 17.6/ 10.4	24.5 / 21.3 / 17.6/ 10.4
		Heating (Hi/Me/Lo/Ulo)		27.5 / 23.2 / 19.1/ 13.6	27.5 / 23.2 / 19.1/ 13.6
	Outdoor	Cooling/Heating		75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	339 / 1,197 / 262	
	Outdoor			845 / 970 / 370	
Net weight	Indoor		kg	16.5	
	Outdoor			80	82
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.50	
Vertical height differences	Outdoor is higher/lower		m	Max.50 / Max.15	
Outdoor operating temperature range	Cooling		°C	-15~50*3	
	Heating			-20~20	
Air filter, Q'ty				Polypropylene net x2 (Washable)	
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E	

NOTES:

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

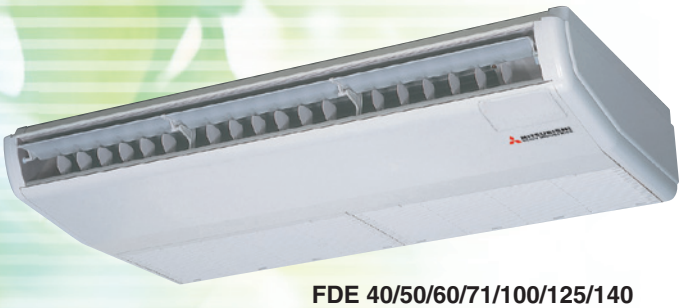
SPECIFICATIONS

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

				Micro Inverter	Standard Inverter
Set model name				SRK200VSAPZR Twin	SRK100VNP1ZR
Indoor unit				SRK100ZR-S x 2	SRK100ZR-S
Outdoor unit				FDC200VSA	FDC100VNP
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz	1 Phase 220-240V, 50Hz / 220V, 60Hz
Nominal cooling capacity (Min~Max)			kW	19.0 (5.2 ~ 22.4)	10.0 (2.4 ~ 10.5)
Nominal heating capacity (Min~Max)			kW	22.4 (3.3 ~ 25.0)	11.2 (3.2 ~ 11.5)
Power consumption		Cooling/Heating	kW	7.52 / 7.41	3.09 / 3.28
EER/COP		Cooling/Heating		2.53 / 3.02	3.24 / 3.41
Inrush current			A	5	14.4
Max. current				20	21
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	63 / 63	63 / 63
	Outdoor	Cooling/Heating		72 / 74	70 / 74
Sound pressure level*1	Indoor*2	Cooling (Hi/Me/Lo/Ulo)		48 / 45 / 40 / 27	48 / 45 / 40 / 27
		Heating (Hi/Me/Lo/Ulo)		48 / 43 / 38 / 30	48 / 43 / 38 / 30
	Outdoor	Cooling/Heating		58 / 59	57 / 61
Air flow	Indoor*2	Cooling (Hi/Me/Lo/Ulo)	m^3/min	24.5 / 21.3 / 17.6 / 10.4	24.5 / 21.3 / 17.6
		Heating (Hi/Me/Lo/Ulo)		27.5 / 23.2 / 19.1 / 13.6	27.5 / 23.2 / 19.1
	Outdoor	Cooling/Heating		135 / 135	75 / 80
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	339 x 1,197 x 262	
	Outdoor			1,300 x 970 x 370	845 x 970 x 370
Net weight	Indoor		kg	16.5	
	Outdoor			115	70
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.70	Max.30
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15	Max.20 / Max.20
Outdoor operating temperature range		Cooling	℃	-15~50*3	-15~46*3
		Heating		-15~20	
Air filter, Q'ty				Polypropylene net x2 (Washable)	
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 & Interface kit:SC-BIKN2-E	

CEILING SUSPENDED
FDE

R410A



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

Energy Saving | Home Leave | Hi Power | Silent Operation | Flap Control | Favourite Setting

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

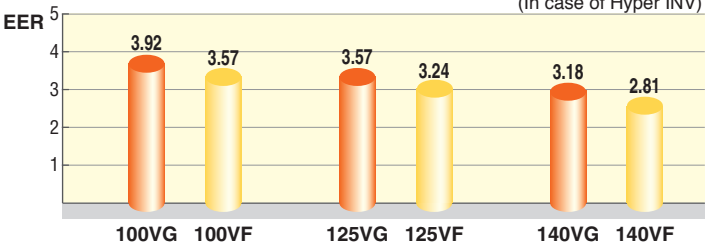
Remote control (option)

Wired			Wireless
			
RC-EX3A	RC-E5	RCH-E3	RCN-E-E3

Point 1 High efficiency

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

(In case of Hyper INV)



Point 2 Reduction of weight

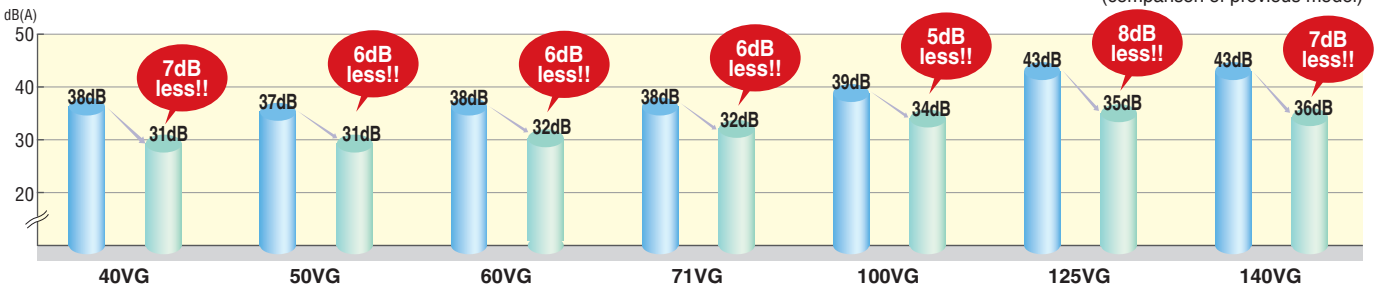
Thanks to decreasing the numbers of fan motor from two to one, reduction of weight was achieved.

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

Point 3 More quiet noise

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

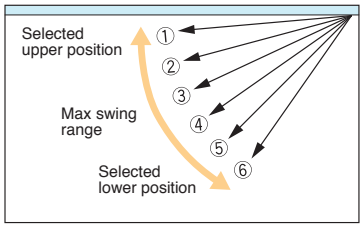
(comparison of previous model)



Point 4 Flap control system

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

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



Point 5 Improved installation workability

Increased freedom of a piping layout

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

OUTDOOR UNIT

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

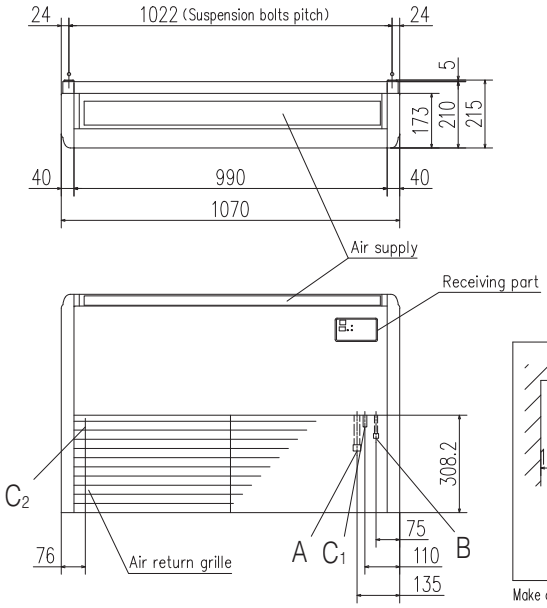
	Standard Inverter		
FDC	71VNP	90VNP1	100VNP
model			
Chargeless	15m		
Height x Width x Depth (mm)	640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370

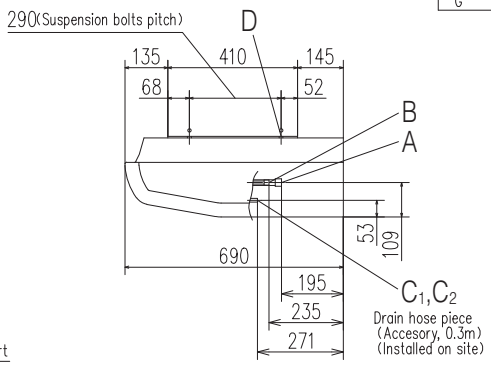
DIMENSIONS (Unit:mm)

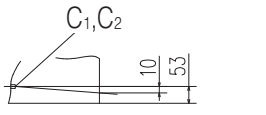
Models FDE40VG, 50VG

Symbol	Content	
A	Gas piping	ϕ12.7 (1/2") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)
C 1,2	Drain piping	VP20 (I.D.20, O.D.26)
D	Hole for suspension bolts	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Drain piping (for left back)	(Knock out)

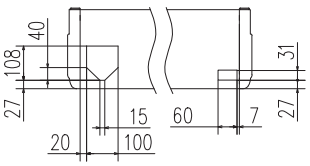
Note (1) The model name label is attached on the fan casing inside the air return grille.



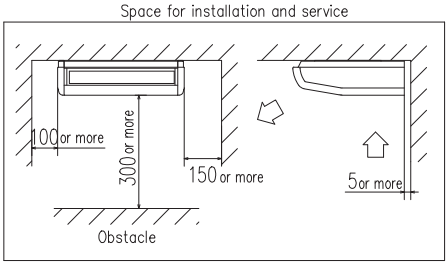




Note) The slope of drain piping inside the unit must take decline of 10mm.

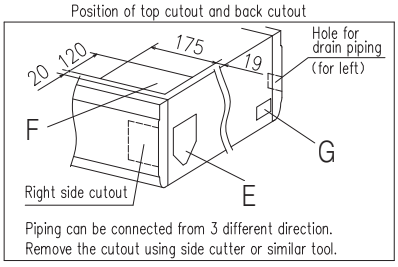


Space for installation and service



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

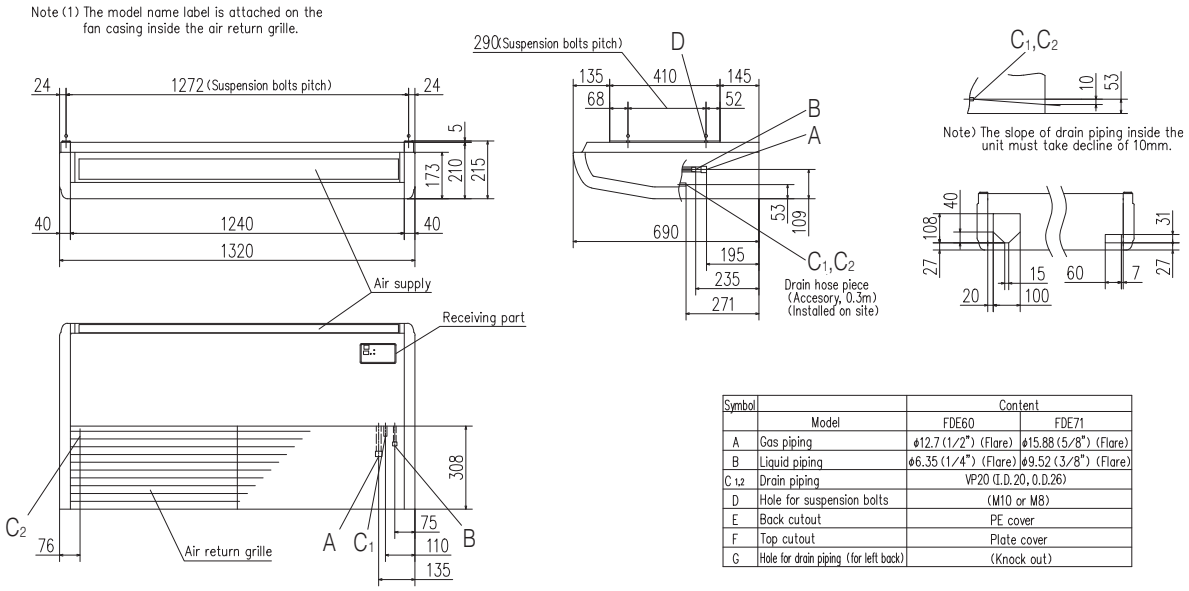
Position of top cutout and back cutout



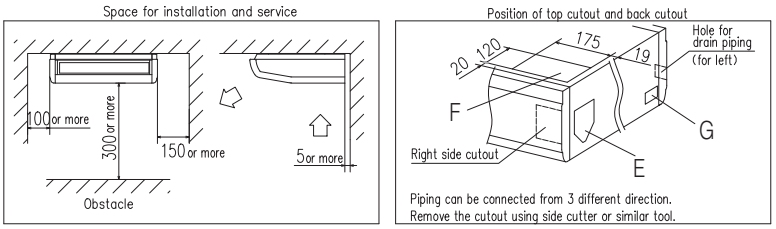
Piping can be connected from 3 different direction.
Remove the cutout using side cutter or similar tool.

DIMENSIONS (Unit:mm)

Models FDE60VG, 71VG

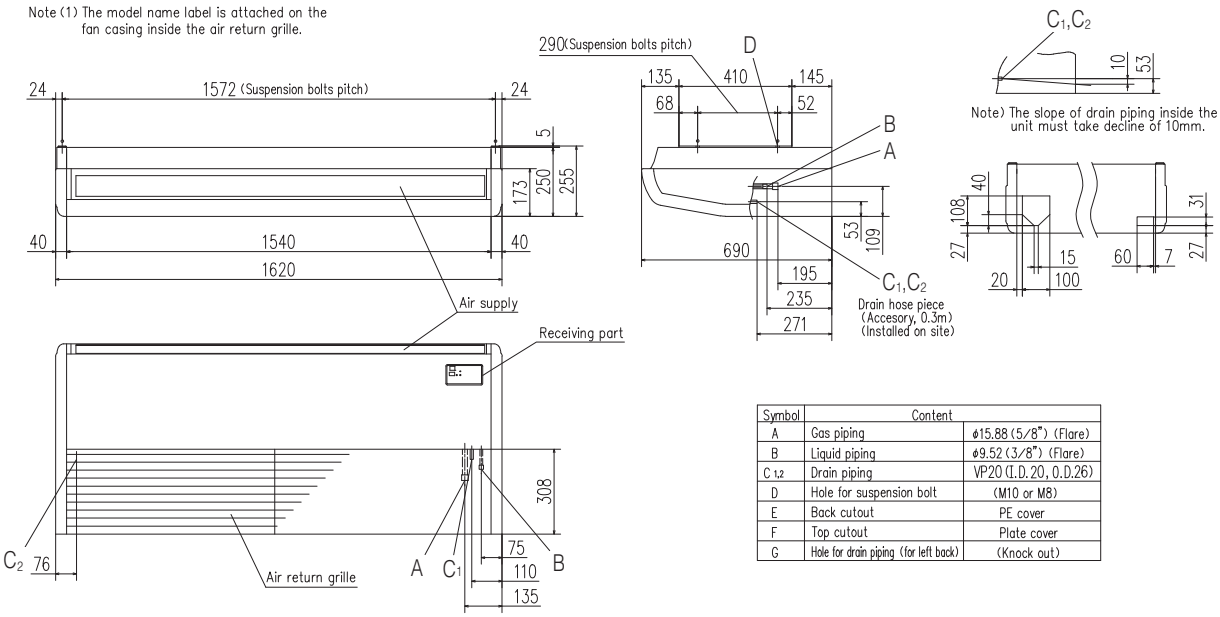


Symbol		Content	
	Model	FDE60	FDE71
A	Gas piping	ϕ12.7 (1/2") (Flare)	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ6.35 (1/4") (Flare)	ϕ9.52 (3/8") (Flare)
C 1,2	Drain piping	VP20 (I.D.20, O.D.26)	
D	Hole for suspension bolts	(M10 or M8)	
E	Back cutout	PE cover	
F	Top cutout	Plate cover	
G	Hole for drain piping (for left back)	(Knock out)	

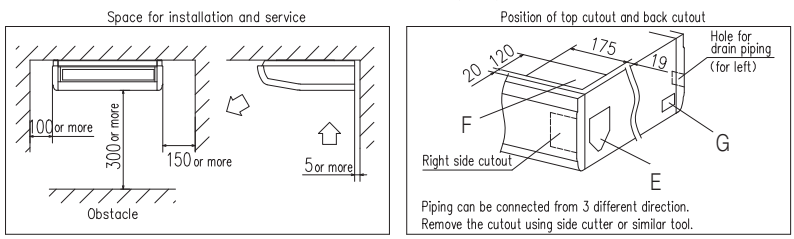


Make a space of 4500 or more between the units when installing more than one.

Models FDE100VG, 125VG, 140VG



Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C 1,2	Drain piping	VP20 (I.D.20, O.D.26)
D	Hole for suspension bolt	(M10 or M8)
E	Back cutout	PE cover
F	Top cutout	Plate cover
G	Hole for drain piping (for left back)	(Knock out)



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

SPECIFICATIONS

				Hyper Inverter				
Set model name				FDE40ZSXVG	FDE50ZSXVG	FDE60ZSXVG	FDE71VNXVG	FDE100VNXVG
Indoor unit				FDE40VG	FDE50VG	FDE60VG	FDE71VG	FDE100VG
Outdoor unit				SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	4.0 (1.1 ~ 4.7)	5.0 (1.1 ~ 5.6)	5.6 (1.1 ~ 6.3)	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	4.5 (0.6 ~ 5.4)	5.4 (0.6 ~ 6.3)	6.7 (0.6 ~ 7.1)	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)
Power consumption		Cooling/Heating	kW	1.02 / 1.10	1.52 / 1.46	1.75 / 1.86	2.11 / 2.11	2.55 / 2.68
EER/COP		Cooling/Heating		3.92 / 4.09	3.29 / 3.70	3.20 / 3.60	3.36 / 3.79	3.92 / 4.18
Inrush current			A	5	5	5	5	5
Max. current				12	15	15	17	24
Sound power level*1	Indoor	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	64 / 64
	Outdoor	Cooling/Heating		63 / 63	63 / 63	65 / 64	66 / 66	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	48 / 43 / 38 / 34
		Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	48 / 43 / 38 / 34
	Outdoor	Cooling/Heating		50 / 49	50 / 49	52 / 52	51 / 48	48 / 50
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5
	Outdoor	Cooling/Heating		36 / 33	40 / 33	41.5 / 39	60 / 50	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690		250 x 1,620 x 690
	Outdoor			640 x 800(+71) x 290			750 x 880(+88) x 340	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	-15~46*2			-15~43*2	
		Heating		-20~24			-20~20	
Air filter, Q'ty				Pocket Plastic net x2(Washable)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3				

				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		Cooling/Heating	kW	3.50 / 3.77	4.40 / 4.69	2.55 / 2.68	3.50 / 3.77	4.40 / 4.69
EER/COP		Cooling/Heating		3.57 / 3.71	3.18 / 3.41	3.92 / 4.18	3.57 / 3.71	3.18 / 3.41
Inrush current			A	5	5	5	5	5
Max. current				26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	65 / 65	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating		70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo)		48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
	Outdoor	Cooling/Heating		48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
		Heating (P-Hi/Hi/Me/Lo)		32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690				
	Outdoor			1,300 x 970 x 370				
Net weight	Indoor		kg	43				
	Outdoor			105				
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")				
Refrigerant line (one way) length			m	Max.100				
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15				
Outdoor operating temperature range		Cooling	°C	-15~43*3				
		Heating		-20~20				
Air filter, Q'ty				Pocket Plastic net x2(Washable)				
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3				

NOTES:

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

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

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name				Hyper Inverter				
				FDE71VNXPVG	FDE100VNXPVG	FDE125VNXPVG	FDE140VNXPVG	FDE140VNXTVG
				Twin				Triple
Indoor unit				FDE40VG x 2	FDE50VG x 2	FDE60VG x 2	FDE71VG x 2	FDE50VG x 3
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC140VNX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 18.0)
Power consumption		Cooling/Heating	kW	2.05 / 2.35	3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP		Cooling/Heating		3.46 / 3.40	3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current			A	5	5	5	5	5
Max. current				17	24	26	26	26
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690		210 x 1,320 x 690		210 x 1,070 x 690
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370			
Net weight	Indoor		kg	28		33		28
	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-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3				

The values are for simultaneous Multi operation.

Set model name				Hyper Inverter			
				FDE100VSXPVG	FDE125VSXPVG	FDE140VSXPVG	FDE140VSXTVG
				Twin			Triple
Indoor unit				FDE50VG x 2	FDE60VG x 2	FDE71VG x 2	FDE50VG x 3
Outdoor unit				FDC100VSX	FDC125VSX	FDC140VSX	FDC140VSX
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz			
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	3.00 / 3.39	3.97 / 3.70	4.67 / 4.58	4.66 / 4.53
EER/COP		Cooling/Heating		3.33 / 3.30	3.15 / 3.78	3.00 / 3.49	3.00 / 3.53
Inrush current			A	5	5	5	5
Max. current				15	15	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		70 / 70	70 / 70	72 / 72	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
		Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31
	Outdoor	Cooling/Heating		48 / 50	48 / 50	49 / 52	49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7
	Outdoor	Cooling/Heating		100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690
	Outdoor			1,300 x 970 x 370			
Net weight	Indoor		kg	28	33		28
	Outdoor			105			
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")			
Refrigerant line (one way) length			m	Max.100			
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15			
Outdoor operating temperature range		Cooling	°C	-15~43*3			
		Heating		-20~20			
Air filter, Q'ty				Pocket plastic net x 2(Washable)			
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3			

NOTES:

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

SPECIFICATIONS

				Micro Inverter					
Set model name				FDE100VNAVG	FDE125VNAVG	FDE140VNAVG	FDE100VSAVG	FDE125VSAVG	FDE140VSAVG
Indoor unit				FDE100VG	FDE125VG	FDE140VG	FDE100VG	FDE125VG	FDE140VG
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	2.85 / 2.70	4.45 / 3.74	5.21/ 4.42	2.85 / 2.70	4.45 / 3.74	5.21 / 4.42
EER/COP		Cooling/Heating		3.51 / 4.15	2.81 / 3.74	2.61 / 3.51	3.51 / 4.15	2.81 / 3.74	2.61 / 3.51
Inrush current			A	5	5	5	5	5	5
Max. current				24	24	24	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	64 / 64	64 / 64	65 / 65	64 / 64	64 / 64	65 / 65
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
		Heating (P-Hi/Hi/Me/Lo)		48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36	48 / 43 / 38 / 34	48 / 45 / 40 / 35	49 / 45 / 40 / 36
	Outdoor	Cooling/Heating		54 / 56	55/ 57	57 / 59	54 / 56	55/ 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
		Heating (P-Hi/Hi/Me/Lo)		32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	34 / 29 / 23 / 18
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	250 x 1,620 x 690					
	Outdoor			845 x 970 x 370					
Net weight	Indoor		kg	43					
	Outdoor			80			82		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.50					
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15					
Outdoor operating temperature range		Cooling	°C	-15~50*3					
		Heating		-20~20					
Air filter, Q'ty				Pocket Plastic net x2(Washable)					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3					

The values are for simultaneous Multi operation.

				Micro Inverter					
Set model name				FDE100VNAPVG	FDE125VNAPVG	FDE140VNAPVG	FDE140VNATVG	FDE100VSAPVG	FDE125VSAPVG
				Twin			Triple	Twin	
Indoor unit				FDE50VG x 2	FDE60VG x 2	FDE71VG x 2	FDE50VG x 3	FDE50VG x 2	FDE60VG x 2
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC140VNA	FDC100VSA	FDC125VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)
Power consumption		Cooling/Heating	kW	3.12 / 2.99	4.16 / 3.54	4.74 / 4.21	4.74 / 4.21	3.12 / 2.99	4.16 / 3.54
EER/COP		Cooling/Heating		3.21 / 3.75	3.00 / 3.95	2.87 / 3.68	2.87 / 3.68	3.21 / 3.75	3.00 / 3.95
Inrush current			A	5	5	5	5	5	5
Max. current				24	24	24	24	15	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60	60 / 60
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	73 / 73	70 / 70	71 / 71
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32	47 / 41 / 37 / 32	46 / 38 / 36 / 31	46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	57 / 59	54 / 56	55 / 57
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	20 / 16 / 13 / 10	20 / 16 / 13 / 10	13 / 10 / 9 / 7	13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		75 / 73	75 / 73	75 / 73	75 / 73	75 / 73	75 / 73
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690		210 x 1,070 x 690		210 x 1,320 x 690
	Outdoor			845 x 970 x 370					
Net weight	Indoor		kg	28	33		28		33
	Outdoor			80				82	
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max. 50					
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15					
Outdoor operating temperature range		Cooling	°C	-15~50*3					
		Heating		-20~20					
Air filter, Q'ty				Pocket plastic net x 2(Washable)					
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3					

SPECIFICATIONS

The values are for simultaneous Multi operation.

Set model name				Micro Inverter				
				FDE140VSAPVG	FDE200VSAPVG	FDE250VSAPVG	FDE140VSATVG	FDE200VSATVG
				Twin			Triple	
Indoor unit				FDE71VG x 2	FDE100VG x 2	FDE125VG x 2	FDE50VG x 3	FDE71VG x 3
Outdoor unit				FDC140VSA	FDC200VSA	FDC250VSA	FDC140VSA	FDC200VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz				
Nominal cooling capacity (Min~Max)			kW	13.6 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)	13.6 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)
Nominal heating capacity (Min~Max)			kW	15.5 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)	15.5 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)
Power consumption		Cooling/Heating	kW	4.74 / 4.21	6.34 / 6.10	8.52 / 7.54	4.74 / 4.21	6.33 / 5.94
EER/COP		Cooling/Heating		2.87 / 3.68	3.00 / 3.67	2.82 / 3.58	2.87 / 3.68	3.00 / 3.77
Inrush current			A	5	5	5	5	5
Max. current				15	20	21	15	20
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	64 / 64	64 / 64	60 / 60	60 / 60
	Outdoor	Cooling/Heating		73 / 73	72 / 74	73 / 75	73 / 73	72 / 74
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		47 / 41 / 37 / 32	48 / 43 / 38 / 44	48 / 45 / 40 / 35	46 / 38 / 36 / 31	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)		47 / 41 / 37 / 32	48 / 43 / 38 / 44	48 / 45 / 40 / 35	46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating		57 / 59	58 / 59	59 / 62	57 / 59	58 / 59
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	13 / 10 / 9 / 7	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		20 / 16 / 13 / 10	32 / 26 / 21 / 16.5	32 / 29 / 23 / 17	13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		75 / 73	135 / 135	143 / 151	75 / 73	135 / 135
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,320 x 690	250 x 1,620 x 690		210 x 1,070 x 690	210 x 1,320 x 690
	Outdoor			845 x 970 x 370	1,300 x 970 x 370	1,505 x 970 x 370	845 x 970 x 370	1,300 x 970 x 370
Net weight	Indoor		kg	33	43		28	33
	Outdoor			82	115	143	82	115
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")	9.52(3/8") / 15.88(5/8")	9.52(3/8") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.50	Max.70		Max.50	Max.70
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15	Max.30 / Max.15		Max.50 / Max.15	Max.30 / Max.15
Outdoor operating temperature range		Cooling	°C	-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-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3				

The values are for simultaneous Multi operation.

Set model name				Micro Inverter	
				FDE200VSADVG	FDE250VSADVG
				Double Twin	
Indoor unit				FDE50VG x 4	FDE60VG x 4
Outdoor unit				FDC200VSA	FDC250VSA
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz	
Nominal cooling capacity (Min~Max)			kW	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min~Max)			kW	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption		Cooling/Heating	kW	6.90 / 7.10	8.00 / 7.02
EER/COP		Cooling/Heating		2.75 / 3.15	3.00 / 3.85
Inrush current			A	5	5
Max. current				20	21
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	60 / 60	60 / 60
	Outdoor	Cooling/Heating		72 / 74	73 / 75
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32
		Heating (P-Hi/Hi/Me/Lo)		46 / 38 / 36 / 31	47 / 41 / 37 / 32
	Outdoor	Cooling/Heating		58 / 59	59 / 62
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	13 / 10 / 9 / 7	20 / 16 / 13 / 10
		Heating (P-Hi/Hi/Me/Lo)		13 / 10 / 9 / 7	20 / 16 / 13 / 10
	Outdoor	Cooling/Heating		135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	210 x 1,070 x 690	210 x 1,320 x 690
	Outdoor			1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		kg	28	33
	Outdoor			115	143
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.70	
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15	
Outdoor operating temperature range		Cooling	°C	-15~50*3	
		Heating		-15~20	
Air filter, Q'ty				Pocket plastic net x 2(Washable)	
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-E-E3	

NOTES:

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

SPECIFICATIONS

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

FLOOR STANDING

FDF

Set Temperature Auto Return* | Vertical Auto Swing | Automatic Operation | Weekly Timer | Filter Sign | Self-Diagnostics

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

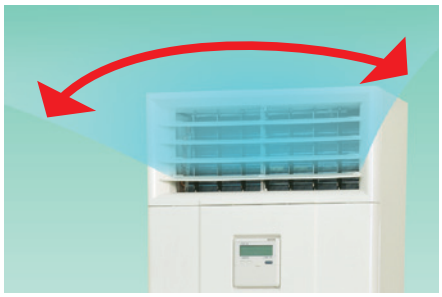
Wireless remote control (Option)

RCN-KIT4-E2

FDF 71/100/125/140

Point 1 Wide and powerful air flow

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

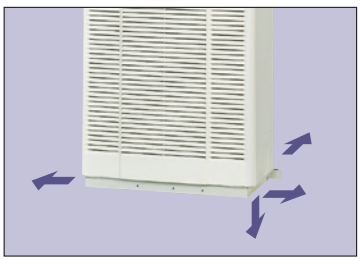


Point 2 Easy Transportation and Installation workability

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

Easy Maintenance

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

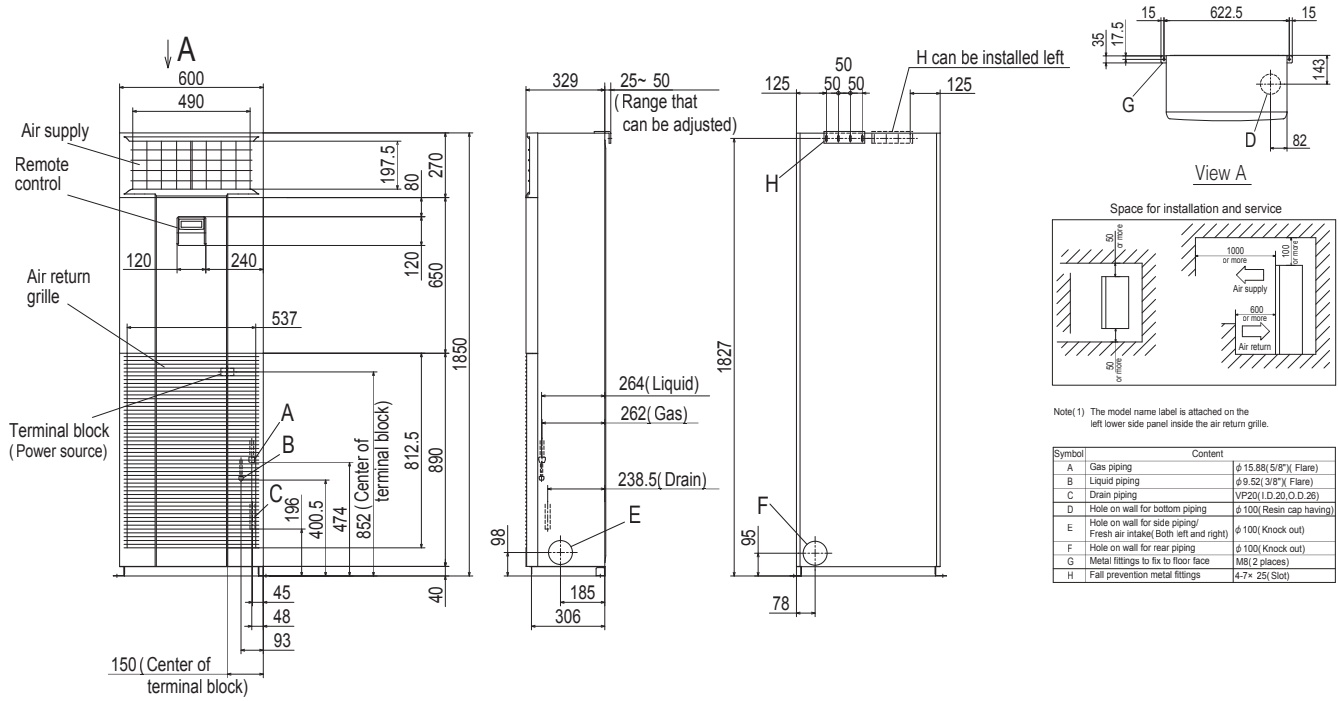


OUTDOOR UNIT

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

	Standard Inverter		
FDC	71VNP	90VNP1	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)



Symbol	Content	
A	Gas piping	ϕ 15.88(5/8")(Flare)
B	Liquid piping	ϕ 9.52(3/8")(Flare)
C	Drain piping	VP20(I.D.20,O.D.26)
D	Hole on wall for bottom piping	ϕ 100(Resin cap having)
E	Hole on wall for side piping/ Fresh air intake(Both left and right)	ϕ 100(Knock out)
F	Hole on wall for rear piping	ϕ 100(Knock out)
G	Metal fittings to fix to floor face	M8(2 places)
H	Fall prevention metal fittings	4-7× 25(Slot)

SPECIFICATIONS

				Hyper Inverter						
Set model name				FDF71VNXVD1	FDF100VNXVD2	FDF125VNXVD	FDF140VNXVD	FDF100VSXVD2	FDF125VSXVD	FDF140VSXVD
Indoor unit				FDF71VD1	FDF100VD2	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD
Outdoor unit				FDC71VNX	FDC100VNX	FDC125VNX	FDC140VNX	FDC100VSX	FDC125VSX	FDC140VSX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz				3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	7.1 (3.2 ~ 8.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	8.0 (3.6 ~ 9.0)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 17.0)	16.0 (4.0 ~ 18.0)	11.2 (4.0 ~ 16.0)	14.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	2.21 / 2.21	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69	2.83 / 3.04	3.89 / 3.88	4.65 / 4.69
EER/COP		Cooling/Heating		3.21 / 3.62	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41	3.53 / 3.68	3.21 / 3.61	3.01 / 3.41
Inrush current			A	5	5	5	5	5	5	5
Max. current				17	24	26	26	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		66 / 66	70 / 70	70 / 70	72 / 72	70 / 70	70 / 70	72 / 72
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		51 / 48	48 / 50	48 / 50	49 / 52	48 / 50	48 / 50	49 / 52
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		60 / 50	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320						
	Outdoor			750 x 880(+88) x 340	1,300 x 970 x 370					
Net weight	Indoor		kg	49	52					
	Outdoor			60	105					
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")						
Refrigerant line (one way) length			m	Max.50	Max.100					
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15						
Outdoor operating temperature range		Cooling	℃	-15~43*2						
		Heating		-20~20						
Air filter, Q'ty				Plastic net x 1(washable)						
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)						

NOTES:

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Hyper Inverter	
Set model name				FDF140VNXPVD1	FDF140VSXPVD1
				Twin	
Indoor unit				FDF71VD1 x 2	FDF71VD1 x 2
Outdoor unit				FDC140VNX	FDC140VSX
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V 60Hz
Nominal cooling capacity (Min~Max)			kW	14.0 (5.0 ~ 16.0)	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	16.0 (4.0 ~ 18.0)	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	4.83 / 4.97	4.83/ 4.97
EER/COP		Cooling/Heating		2.90 / 3.22	2.90 / 3.22
Inrush current			A	5	5
Max. current				26	15
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	61 / 61	61 / 61
	Outdoor	Cooling/Heating		72 / 72	72 / 72
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33
	Outdoor	Cooling/Heating		49 / 52	49 / 52
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	18 / 16 / 14 / 12	18 / 16 / 14 / 12
		Heating (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12	18 / 16 / 14 / 12
	Outdoor	Cooling/Heating		100 / 100	100 / 100
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320	
	Outdoor			1,300 x 970 x 370	
Net weight	Indoor		kg	49	
	Outdoor			105	
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")	
Refrigerant line (one way) length			m	Max.100	
Vertical height differences	Outdoor is higher/lower		m	Max.30 / Max.15	
Outdoor operating temperature range		Cooling	°C	-15~43*3	
		Heating		-20~20	
Air filter, Q'ty				Plastic net x 1(washable)	
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)	

				Micro Inverter					
Set model name				FDF100VNAVD2	FDF125VNAVD	FDF140VNAVD	FDF100VSAVD2	FDF125VSAVD	FDF140VSAVD
Indoor unit				FDF100VD2	FDF125VD	FDF140VD	FDF100VD2	FDF125VD	FDF140VD
Outdoor unit				FDC100VNA	FDC125VNA	FDC140VNA	FDC100VSA	FDC125VSA	FDC140VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz			3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 13.0)	13.0 (5.0 ~ 13.0)	10.0 (4.0 ~ 11.2)	12.5 (5.0 ~ 14.0)	13.6 (5.0 ~ 14.5)
Nominal heating capacity (Min~Max)			kW	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)	11.2 (4.0 ~ 12.5)	14.0 (4.0 ~ 16.0)	15.5 (4.0 ~ 16.5)
Power consumption		Cooling/Heating	kW	3.12 / 2.94	4.65 / 4.14	5.02 / 4.98	3.12 / 2.94	4.65/ 4.14	5.42 / 4.98
EER/COP		Cooling/Heating		3.21 / 3.81	2.69 / 3.38	2.59 / 3.11	3.21 / 3.81	2.69 / 3.38	2.51 / 3.11
Inrush current			A	5	5	5	5	5	5
Max. current				24	24	24	15	15	15
Sound power level*1	Indoor	Cooling/Heating	dB(A)	65 / 65	73 / 73	73 / 73	65 / 65	73 / 73	73 / 73
	Outdoor	Cooling/Heating		70 / 70	71 / 71	73 / 73	70 / 70	71 / 71	73 / 73
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		54 / 56	55 / 57	57 / 59	54 / 56	55 / 57	57 / 59
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 26 / 23 / 19	29 / 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		kg	52					
	Outdoor			80			82		
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")					
Refrigerant line (one way) length			m	Max.50					
Vertical height differences	Outdoor is higher/lower		m	Max.50 / Max.15					
Outdoor operating temperature range		Cooling	°C	-15~50*3					
		Heating		-20~20					
Air filter, Q'ty				Plastic net x 1(Washable)					
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)					

NOTES:

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

				Micro Inverter			
Set model name				FDF140VNAPVD1	FDF140VSAPVD1	FDF200VSAPVD2	FDF250VSAPVD
				Twin			
Indoor unit				FDF71VD1 x 2	FDF71VD1 x 2	FDF100VD2 x 2	FDF125VD x 2
Outdoor unit				FDC140VNA	FDC140VSA	FDC200VSA	FDC250VSA
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz	3 Phase 380-415V, 50Hz / 380V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	13.6 (5.0 ~ 14.5)	13.6 (5.0 ~ 14.5)	19.0 (5.2 ~ 22.4)	24.0 (6.9 ~ 28.0)
Nominal heating capacity (Min~Max)			kW	15.5 (4.0 ~ 16.5)	15.5 (4.0 ~ 16.5)	22.4 (3.3 ~ 25.0)	27.0 (5.5 ~ 31.5)
Power consumption		Cooling/Heating	kW	5.15 / 4.35	5.15 / 4.35	6.74 / 6.42	9.15 / 8.49
EER/COP		Cooling/Heating		2.64 / 3.56	2.64 / 3.56	2.82 / 3.49	2.62 / 3.18
Inrush current			A	5	5	5	5
Max. current				24	15	20	21
Sound power level*1	Indoor*2	Cooling/Heating	dB(A)	61 / 61	61 / 61	65 / 65	73 / 73
	Outdoor	Cooling/Heating		73 / 73	73 / 73	72 / 74	73 / 75
Sound pressure level*1	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		57 / 59	57 / 59	58 / 59	59 / 62
Air flow	Indoor*2	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		18 / 16 / 14 / 12	18 / 16 / 14 / 12	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		75 / 73	75 / 73	135 / 135	143 / 151
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320			
	Outdoor			845 x 970 x 370		1,300 x 970 x 370	1,505 x 970 x 370
Net weight	Indoor		kg	49		52	
	Outdoor			80	82	115	143
Ref.piping size	Liquid/Gas		ømm	9.52(3/8") / 15.88(5/8")		9.52(3/8") / 22.22(7/8")	12.7(1/2") / 22.22(7/8")
Refrigerant line (one way) length			m	Max.50		Max.70	
Vertical height differences		Outdoor is higher/lower	m	Max.50 / Max.15		Max.30 / Max.15	
Outdoor operating temperature range		Cooling	°C	-15~50*3			
		Heating		-20~20		-15~20	
Air filter, Q'ty				Plastic net x 1(washable)			
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)			

				Standard Inverter		
Set model name				FDF71VNPVD1	FDF90VNP1VD2	FDF100VNP1VD2
Indoor unit				FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit				FDC71VNP	FDC90VNP1	FDC100VNP
Power source				1 Phase 220-240V, 50Hz / 220V, 60Hz		
Nominal cooling capacity (Min~Max)			kW	7.1 (1.4 ~ 7.1)	9.0 (1.9 ~ 9.0)	10.0 (2.8 ~ 11.2)
Nominal heating capacity (Min~Max)			kW	7.1 (1.0 ~ 7.1)	9.0 (1.5 ~ 9.0)	11.2 (2.5 ~ 12.5)
Power consumption		Cooling/Heating	kW	2.67 / 2.04	2.81 / 2.25	3.19 / 3.09
EER/COP		Cooling/Heating		2.66 / 3.48	3.20 / 4.00	3.13 / 3.62
Inrush current			A	5	5	5
Max. current				14.5	18.0	21.0
Sound power level*1	Indoor	Cooling/Heating	dB(A)	61 / 61	65 / 65	65 / 65
	Outdoor	Cooling/Heating		67 / 67	69 / 69	70 / 70
Sound pressure level*1	Indoor	Cooling (P-Hi/Hi/Me/Lo)	dB(A)	42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
		Heating (P-Hi/Hi/Me/Lo)		42 / 39 / 35 / 33	54 / 50 / 48 / 44	54 / 50 / 48 / 44
	Outdoor	Cooling/Heating		54 / 54	57 / 55	57 / 61
Air flow	Indoor	Cooling (P-Hi/Hi/Me/Lo)	m^3/min	20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19
		Heating (P-Hi/Hi/Me/Lo)		20 / 18 / 16 / 14	29 / 26 / 23 / 19	29 / 26 / 23 / 19
	Outdoor	Cooling/Heating		36 / 36	63 / 49.5	75 / 79
Exterior dimensions	Indoor	HeightxWidthxDepth	mm	1,850 x 600 x 320		
	Outdoor			640 x 800(+71) x 290	750 x 880(+88) x 340	845 x 970 x 370
Net weight	Indoor		kg	49	52	
	Outdoor			45	57	70
Ref.piping size	Liquid/Gas		ømm	6.35(1/4") / 12.7(1/2")	6.35(1/4") / 15.88(5/8")	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.23		Max.30
Vertical height differences		Outdoor is higher/lower	m	Max.20 / Max.20		
Outdoor operating temperature range		Cooling	°C	-15~46*3		
		Heating		-15~20		
Air filter, Q'ty				Plastic net x1(Washable)		
Remote control				wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option)		

CONTROL SYSTEMS

Remote Control line up

	indoor unit	remote control
wired	all models	RC-EX3A
		RC-E5
		RCH-E3

	indoor unit	remote control	indoor unit	remote control
wireless	FDT	RCN-T-5AW-E2	FDE	RCN-E-E3
	FDTC	RCN-TC-5AW-E2	FDU,FDUM,FDF	RCN-KIT4-E2

Wired remote control (option)

RC-EX3A

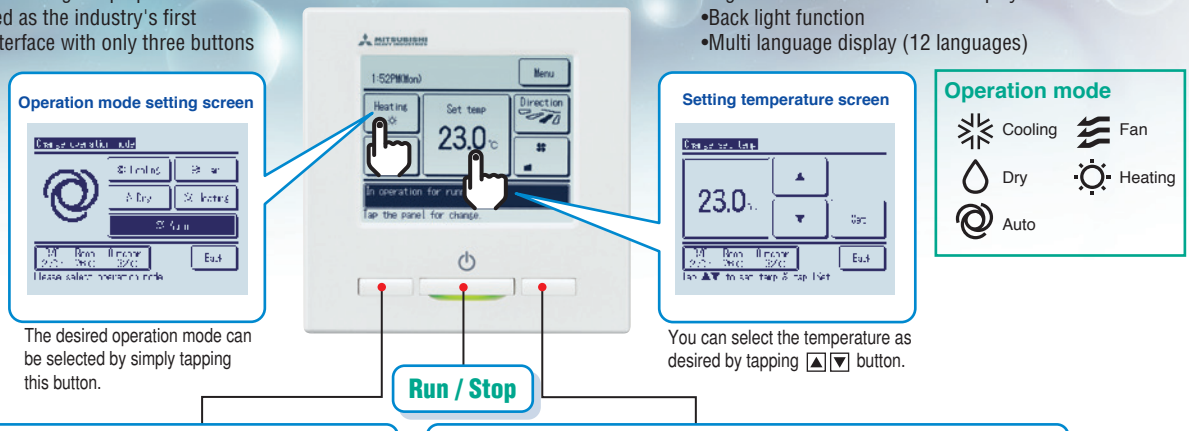
Easy touch and Easy view with full dot Liquid Crystal display

User friendly

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

Easy view

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



High power operation

The highest capacity operation (Max 15 minutes)

- Increasing compressor speed
- Increasing air flow volume

Energy-saving operation

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

Main functions

	Function name	Description
Economy & Timer	Energy-saving operation	Since the capacity is controlled automatically based on the outdoor temperature, energy can be saved without losing comfort.
	Sleep timer	Set the time period from start to stop of operation. The selectablerange of setting time is from 30 to 240 minutes (at 10-minute intervals).
	Set temperature auto return	The temperature automatically returns to the previously set temperature.
	Set ON timer by hour	When the set time elapses, the air conditioner starts.
	Set OFF timer by hour	When the set time elapses, the air conditioner stops.
	Set ON timer by clock	The air conditioner starts at the set time.
	Set OFF timer by clock	The air conditioner stops at the set time.
	Weekly timer	On or Off timer can be set on a weekly basis.
	Peak-cut timer	Capacity control can be set by using peak cut function on RC-EX3A for better energy saving. Five-step capacity control is available.
	Home leave operation	When the unit is not used for a long period of time, the room temperature is maintained at a moderate level, avoiding extremely hot or cool temperatures.
Comfort	Big LCD & Touch screen panel	Large 3.8 inch screen has resulted in improved visibility and operability.
	Easy modification of Individual flap control	User can visually confirm and set the direction of louvres using the visual display on the remotecontroller.
	Automatic fan speed *1	The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature.
	Temp increment setting	Temperature increment for the change of the set temp can be changed.
	Silent mode	Set the period of time to operate the Outdoor unit with prioritizing the quietness.
Convenience	Function switch*1	The function switch allows user to select and set two functions among seven available functions .
	Favorite setting*1	Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting.
	Adjusting Brightness of the operation lamp	The brightness of the background light can be adjusted by 10 stages.
	LCD contrast setting	This function allows user to adjust LCD display contrast.
	High power operation	High Power Mode increases the unit operating ability for 15 minutes to quickly adjust the room temperature to a comfortable level.
	Back light setting	This convenient function allows user to see controls under low light conditions.
	Administrator settings	This function only allows specific individuals to operate the unit.
	Setting temp range	Limited range of setting temperature in the heating or the cooling operation can be selected.
	External Input/Output Function	The external input/output of indoor unit by remote controller can set input/output based on user needs.
	Select the language	Set the language to be displayed on the remote control.
Service	USB connection (mini-B)	This function allows batch input of schedule timer settings and other settings involving a large amount of data.
	Error code display	This function allows user to check information displayed when abnormal function of the unit occurs.
	Operation data display	Displays various types of air conditioner operation data in real time.
	Contact company display	Address of the service contact is displayed.
	Filter sign	Announces the due time for cleaning of the air filter.
	Static pressure adjustment	Allows user to adjust duct static pressure using the remote control.
	Backup Control	Allows for rotation control, fault backup control, and capacity backup control.

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

Wired remote control (option)

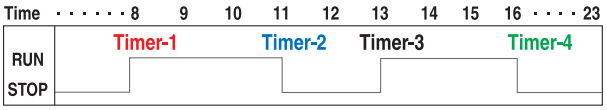
RC-E5

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

Weekly timer function as standard

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

Timer operation

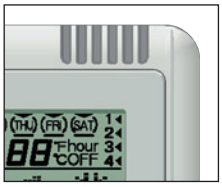


Run hour meters to facilitate maintenance checking

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

Room temperature controlled by the remote control sensor

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



Changeable set temperature ranges

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

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

Simple remote control (option)

RCH-E3 (wired)

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

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

Up to 16 units

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

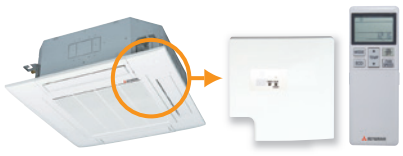
AUTO restart

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

Wireless remote control (option)

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

RCN-T-5AW-E2



RCN-TC-5AW-E2

RCN-KIT4-E2

RCN-E-E3

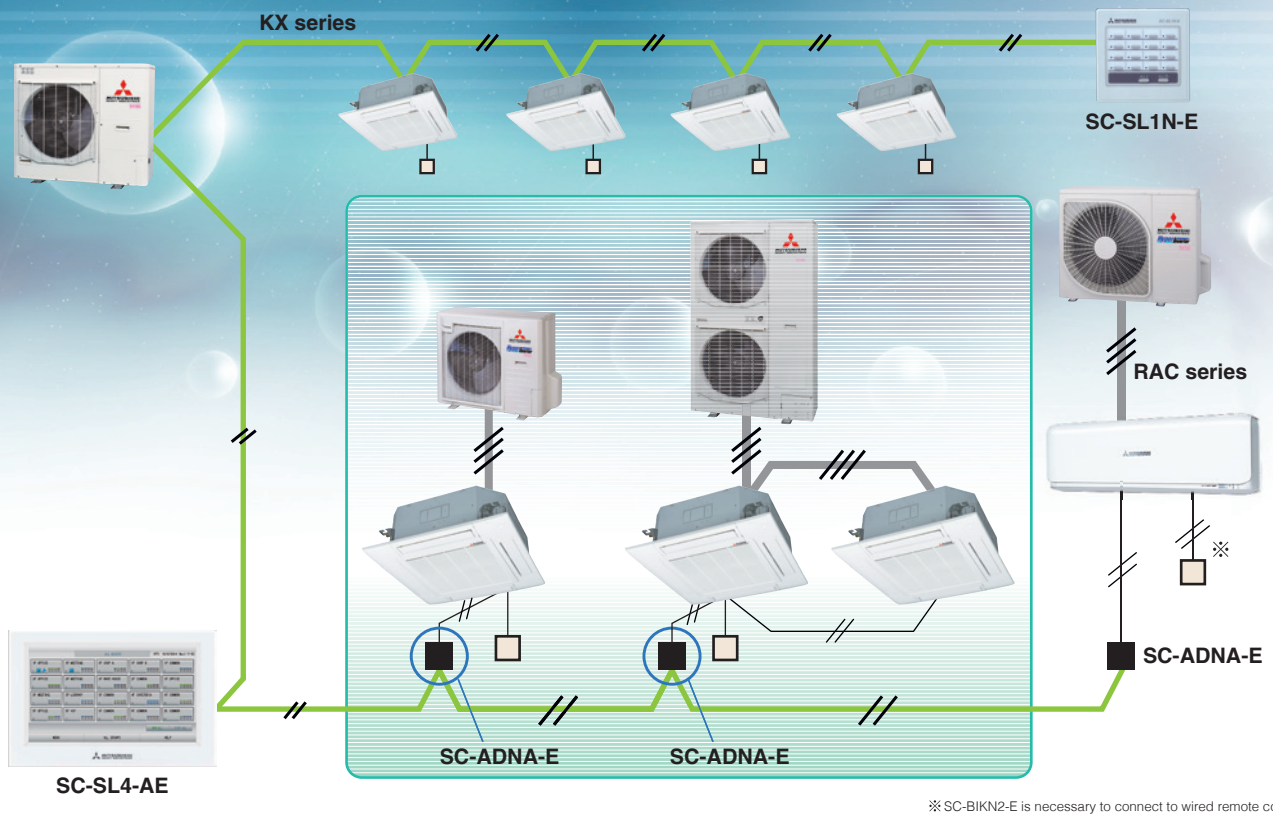
※Wireless remote control is not applicable to the Individual flap control system.

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 censor is required (as when center control system is in place), install SC-THB-E3 at proper place in the rooms.

SUPERLINK-Ⅱ



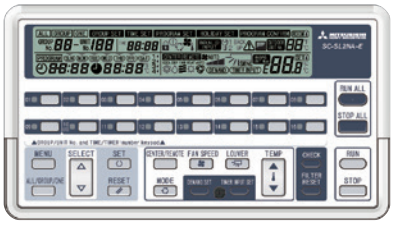
※SC-BIKN2-E is necessary to connect to wired remote controller.

Central Control

SC-SL1N-E

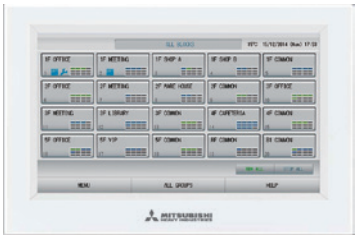
Start/stop control of up to 16 indoor units is possible either individually or collectively. With simple operations, you can effect centralized control.

SC-SL2NA-E



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

SC-SL4-AE/BE



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

Building Management Systems

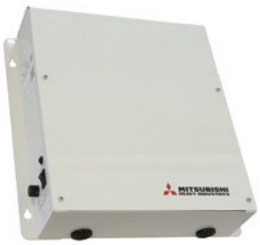
SC-WBGW256*
(Web gateway / BACnet gateway)

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

Production by order

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

SC-LGWNB*
(LonWorks gateway)



Production by order

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

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

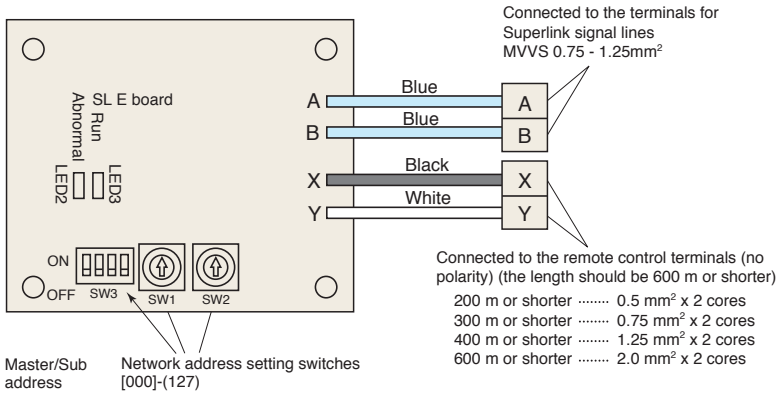
SUPERLINK E BOARD (SC-ADNA-E)

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

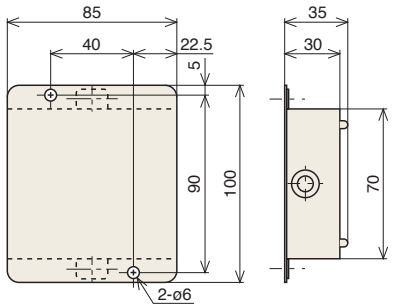
(1) Functions

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

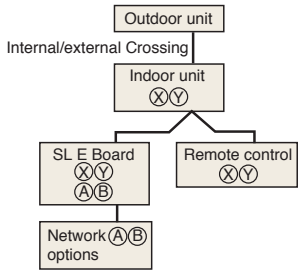
(2) Wiring connection diagram



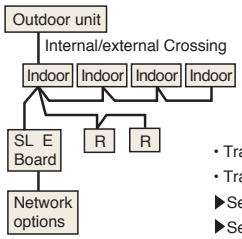
(3) Metal box dimension (unit:mm)



Basic Connections



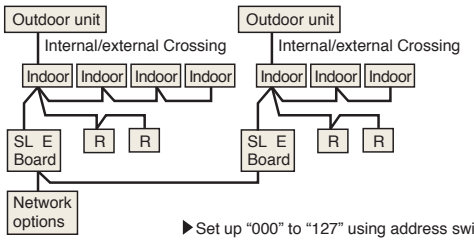
Plural Controls by Multiple Remote Controls. Mixture of Multiple Units



- Transmit the information of plural "Master" units to the network.
- Transmit the abnormalities of the "Slave" units to the network.

▶Setting the plural "Master/Slave" units with the dip SW of the printed circuit board.
▶Setting the "Master/Slave" remote controls with the dip SW of the remote control board.

Plural Controls by Multiple Remote Controls. Mixture of Multiple Units

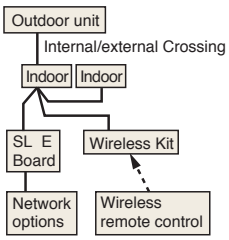


▶Set up "000" to "127" using address switch on the SL E board.

Without Remote Control

▶Set the SL E board dip SW to "Master" SW3-1 ON.
∗The network option SL1N-E is not allowed (This will disturb switching of the operation mode)

Wireless Kit



External switch connection CNT, CNTA

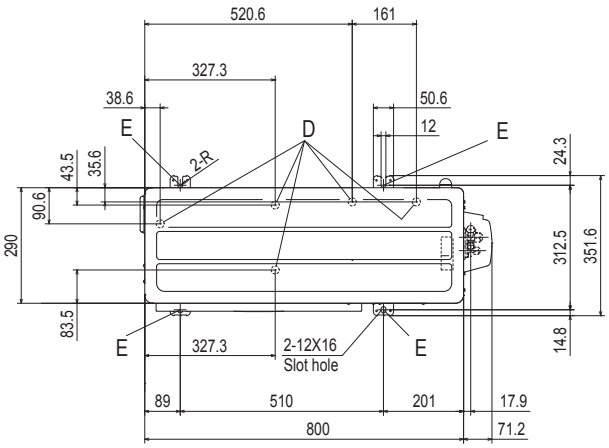
All indoor units are equipped with an additional connection point CnT to connect indoor units to an external ON/OFF switch; e.g. time clock, fire alarm, etc.

Remote surveillance system

Card key on-off

OUTDOOR UNIT DIMENSIONS (unit:mm)

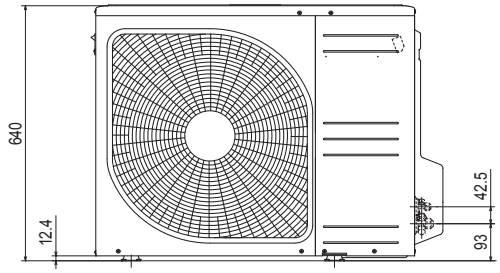
SRC40ZSX-S, 50ZSX-S, 60ZSX-S

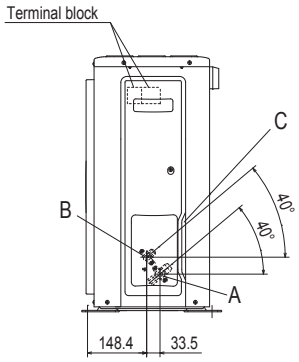


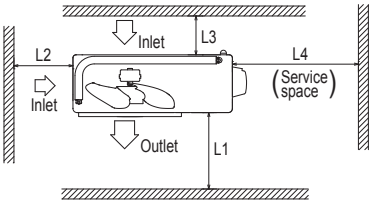
Symbol	Content	
A	Service valve connection (Gas side)	ϕ12.7(1/2")(Flare)
B	Service valve connection (Liquid side)	ϕ6.35(1/4")(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20×5 places
E	Anchor bolt hole	M10-12×4 places

Notes

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







Minimum installation space

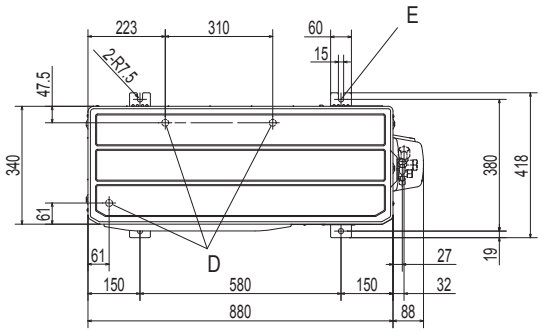
Examples installation / Size	I	II	III	IV
L1	Open	280	280	180
L2	100	75	Open	Open
L3	100	80	80	80
L4	250	Open	250	Open

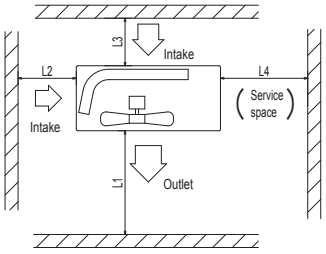
FDC71VNX

Symbol	Content	
A	Service valve connection (gas side)	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	ϕ20 × 3places
E	Anchor bolt hole	M10 × 4places

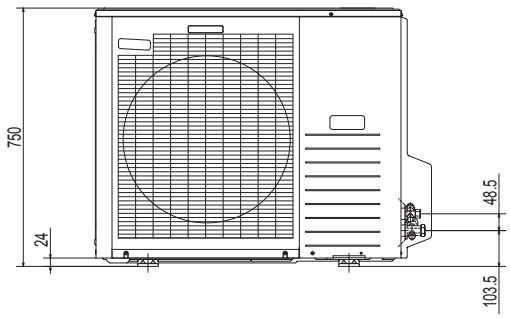
Notes

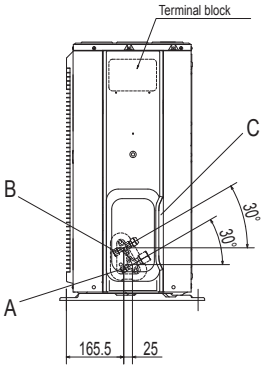
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more the 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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





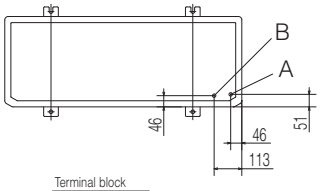
Minimum installation space





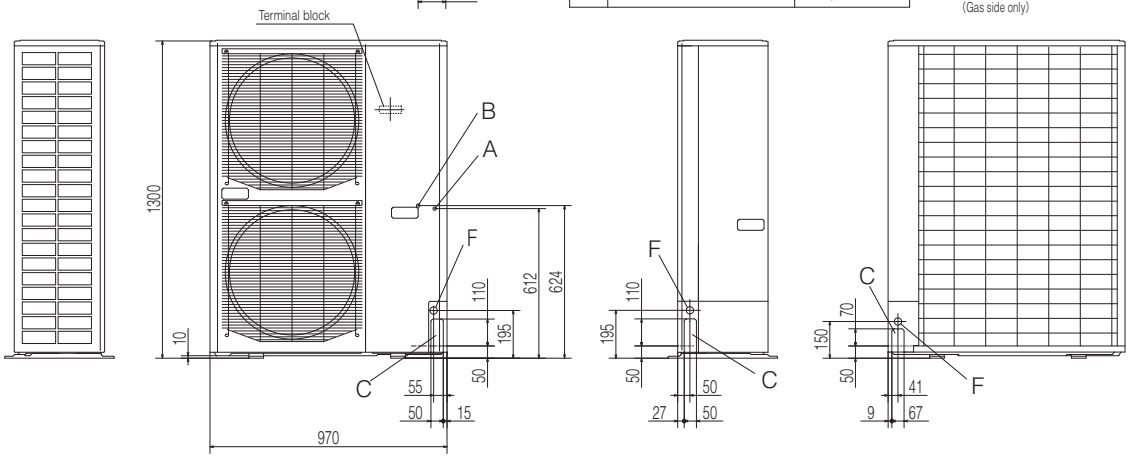
Examples of installation / Dimensions	I	II	III
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

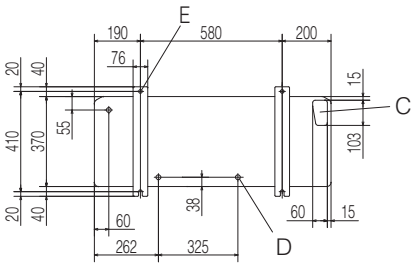
FDC100VNX, 100VSX, 125VNX, 125VSX, 140VNX, 140VSX

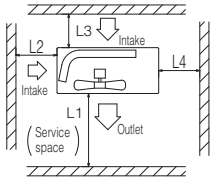


Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	ϕ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	ϕ9.52 (3/8") (Flare)
C	Pipe / cable draw-out hole	
D	Drain discharge hole	ϕ20 × 3places
E	Anchor bolt hole	M10 × 4places
F	Cable draw-out hole	ϕ30 (front) ϕ45 (side) ϕ50 (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)







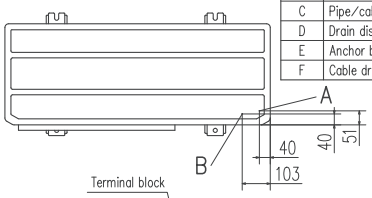
Minimum installation space

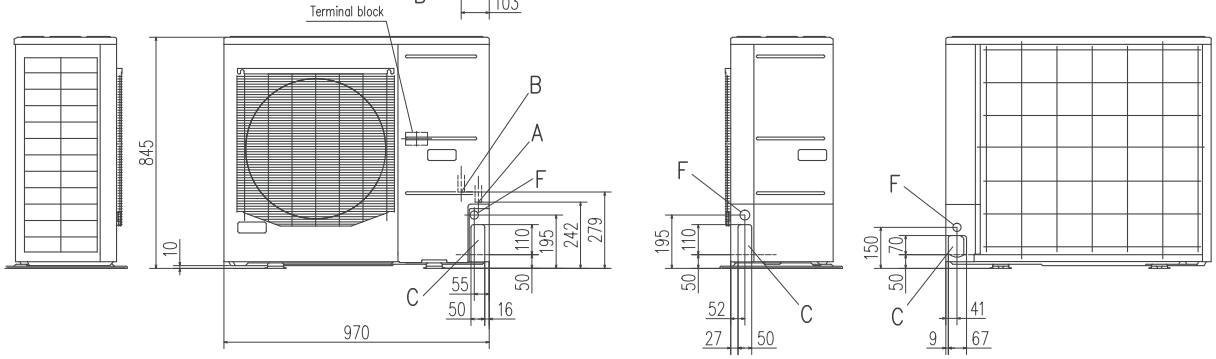
Examples of installation / Dimensions	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

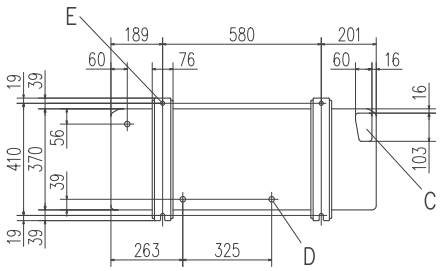
FDC100VNA, 125VNA, 140VNA 100VSA, 125VSA, 140VSA

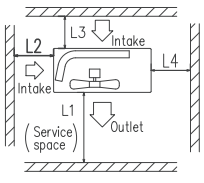
Symbol	Content	
A	Service valve connection (gas side)	ϕ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	ϕ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20×3places
E	Anchor bolt hole	M10×4places
F	Cable draw-out hole	ϕ30×3places

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 the 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The model name label is attached on the lower right corner of the front panel.







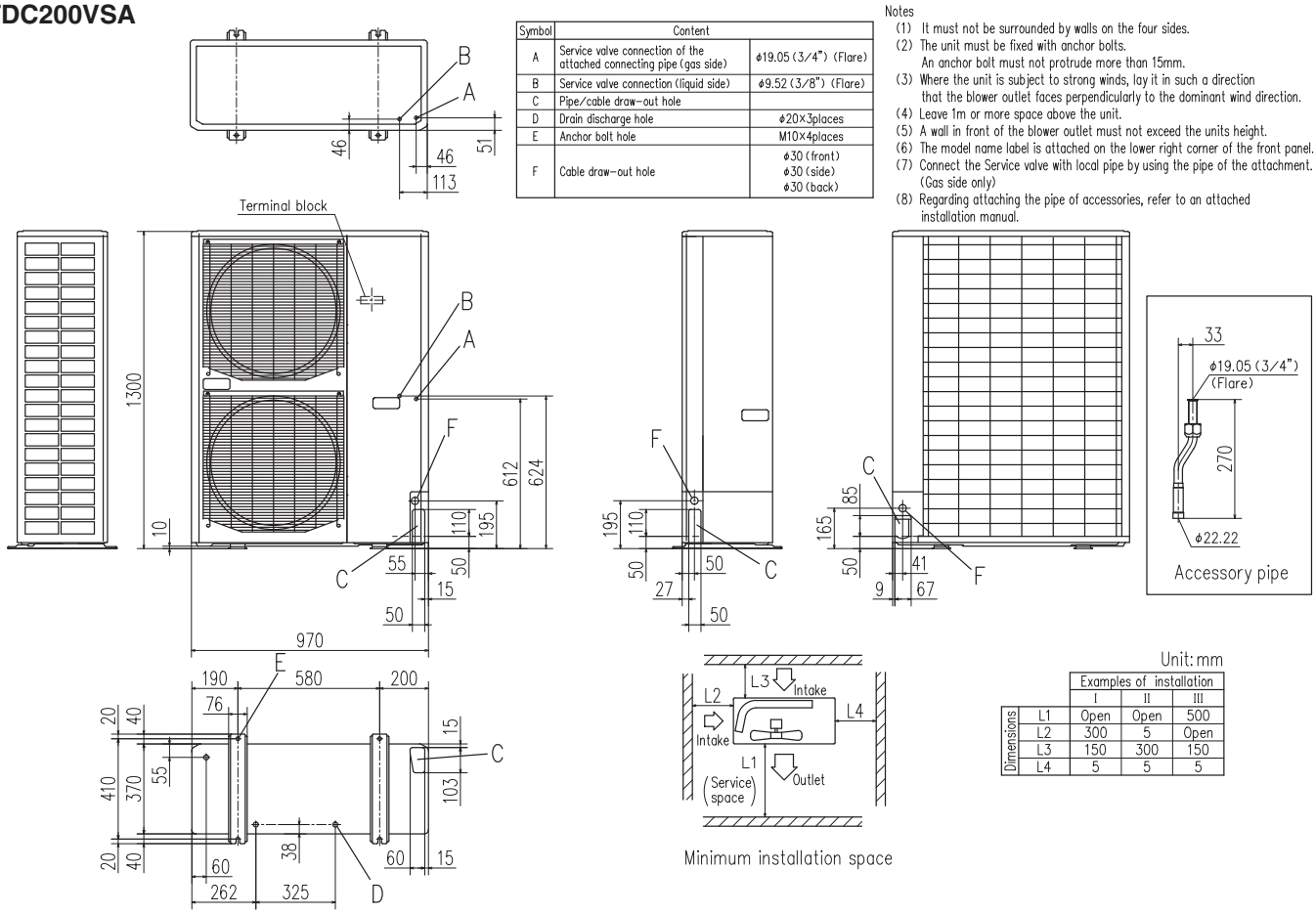


Minimum installation space

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

OUTDOOR UNIT DIMENSIONS (unit:mm)

FDC200VSA



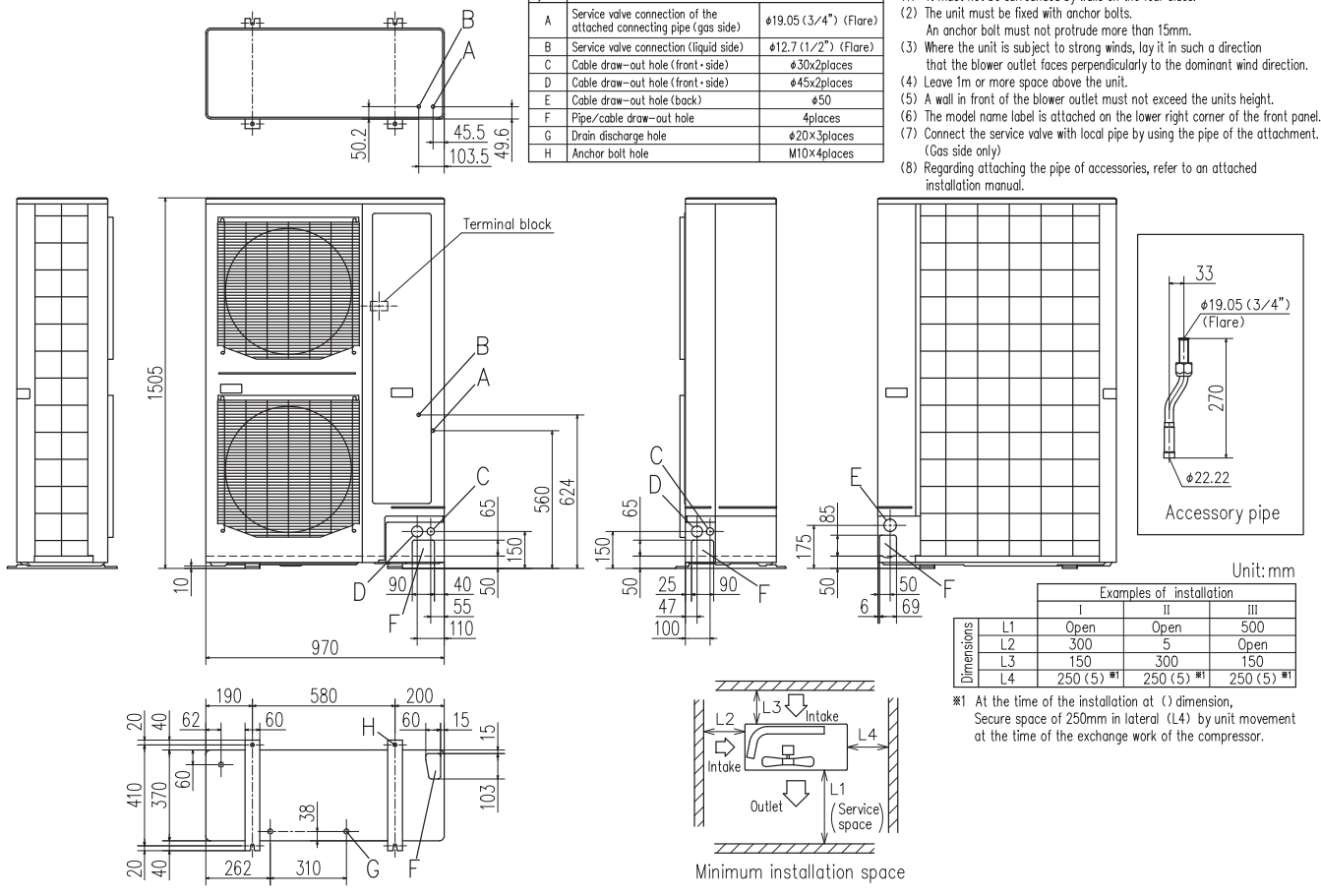
Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	ϕ19.05 (3/4") (Flare)
B	Service valve connection (liquid side)	ϕ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20×3places
E	Anchor bolt hole	M10×4places
F	Cable draw-out hole	ϕ30 (front) ϕ30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

Unit: mm

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

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

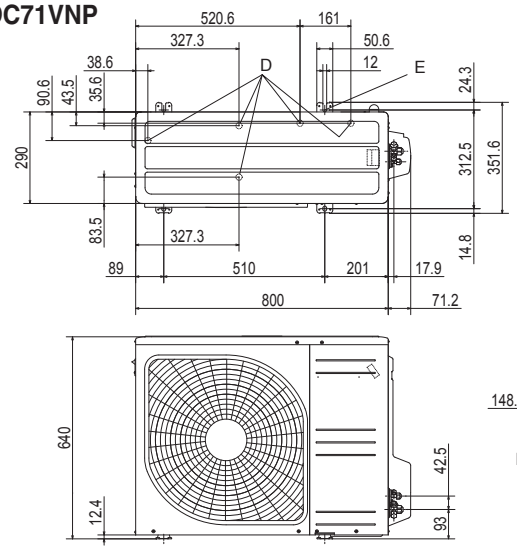
Notes
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts.
An anchor bolt must not protrude more than 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the 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)
(8) Regarding attaching the pipe of accessories, refer to an attached installation manual.

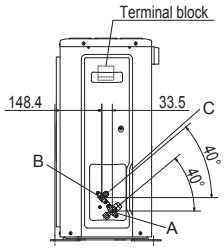
Unit: mm

		Examples of installation		
		I	II	III
Dimensions	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.

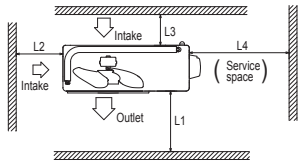
FDC71VNP





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	ϕ20× 5 places
E	Anchor bolt hole	M10× 4 places

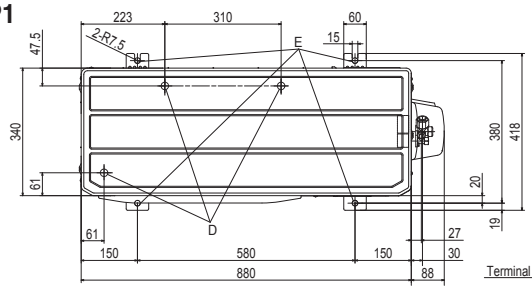
Notes
(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.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

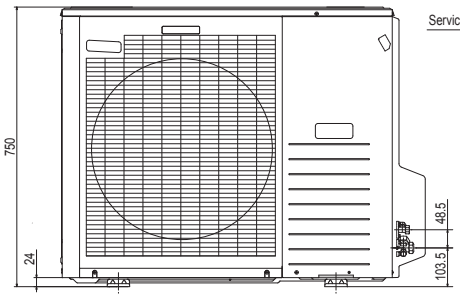


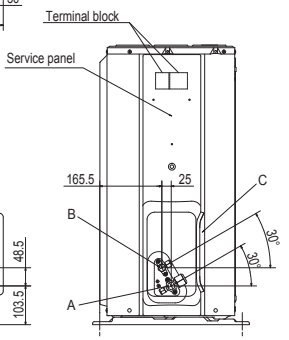
Minimum installation space

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

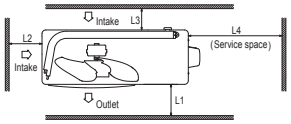
FDC90VNP1







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

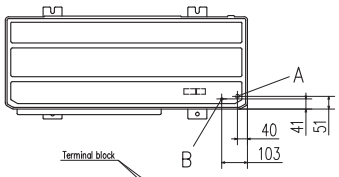


Minimum installation space

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

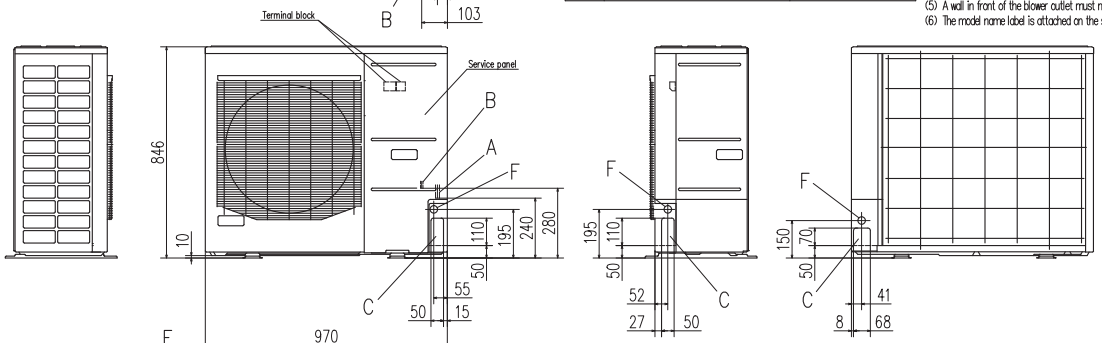
Symbol	Content	
A	Service valve connection(gas side)	ϕ 15.88(5/8")(Flare)
B	Service valve connection(liquid side)	ϕ 6.35(1/4")(Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20 x 3 places
E	Anchor bolt hole	M10 x 4 places

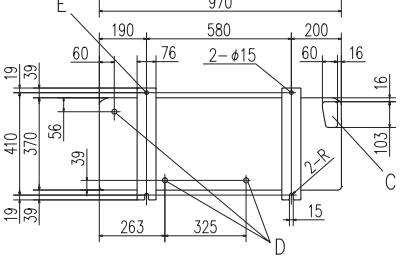
FDC100VNP

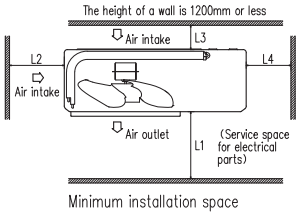


Symbol	Content	
A	Service valve connection (gas side)	ϕ15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	ϕ9.52 (3/8") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20×3 places
E	Anchor bolt hole	M10×4 places
F	Cable draw-out hole	ϕ30×3 places

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







Minimum installation space

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 EFFICIENT AND ENVIRONMENTALLY CONSCIOUS

Several radical design changes and engineering developments have brought abou 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.

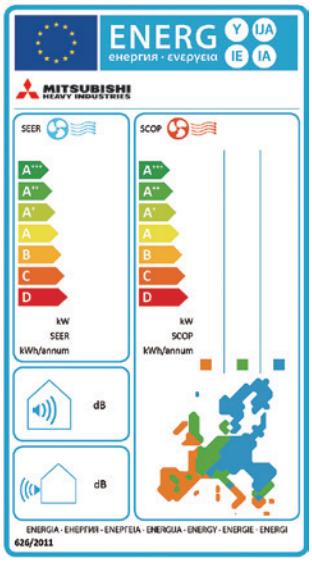
Seasonal efficiency is the new way of rating the true efficiency of heating and cooling products over an entire year.

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 t 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 increase capacity and employment of high efficiency DC motor.

Indoor unit			FDT40VG	FDT50VG	FDT60VG	FDT71VG	FDT100VG	FDT100VG	FDT40VGx2	FDT50VGx2	FDT50VGx2
Outdoor unit			SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX
Energy class (cooling/heating)			A++/A+	A++/A++	A++/A++	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+	A+/A+
SEER			8.28	7.76	8.26	5.72	5.90	5.90	5.77	5.92	5.92
SCOP (Average climate)			4.45	4.61	5.00	4.34	4.32	4.32	4.34	4.16	4.16
Pdesign (cooling/heating (@-10°C))		kW	4.0/3.8	5.0/4.1	5.6/4.7	7.1/5.8	10.0/11.2	10.0/11.2	7.1/5.8	10.0/11.2	10.0/11.2
Annual electricity consumption (cooling/heating)		kWh/a	170/1197	226/1246	238/1317	435/1870	594/3626	594/3626	431/1872	592/3774	592/3774
Refrigerant (R410A)	GWP		1975								
	charge	kg/TCO$_2$E$_q$	1.5/3.132			2.95/6.160	4.5/9.396		2.95/6.160	4.5/9.396	
Designated heating season			Average								

Indoor unit			FDT100VG	FDT100VG	FDT50VGx2	FDT50VGx2	FDT71VG	FDT100VG	FDT100VG	FDTC40VG	FDTC50VG
Outdoor unit			FDC100VNA	FDC100VSA	FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP	SRC40ZSX-S	SRC50ZSX-S
Energy class (cooling/heating)			A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
SEER			6.78	6.78	6.89	6.89	6.14	6.78	6.78	6.93	6.49
SCOP (Average climate)			4.52	4.52	4.47	4.47	4.27	4.12	4.53	4.37	4.30
Pdesign (cooling/heating (@-10°C))		kW	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5	7.1/5.7	9.0/8.1	10.0/8.1	4.0/4.0	5.0/4.3
Annual electricity consumption (cooling/heating)		kWh/a	516/2631	516/2631	508/2662	508/2662	405/1870	465/2756	517/2505	202/1281	270/1402
Refrigerant (R410A)	GWP		1975								
	charge	kg/TCO$_2$E$_q$	3.8/7.934				1.6/3.341	2.1/4.385	2.55/5.324	1.5/3.132	
Designated heating season			Average								

Indoor unit			FDTC60VG	FDTC40VGx2	FDTC50VGx2	FDTC50VGx2	FDTC50VGx2	FDTC50VGx2	FDU71VF1	FDU100VF2	FDU100VF2
Outdoor unit			SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	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			6.39	5.50	5.56	5.56	6.00	6.00	5.24	5.22	5.19
SCOP (Average climate)			4.09	4.05	3.87	3.87	4.38	4.38	3.90	4.10	4.10
Pdesign (cooling/heating (@-10°C))		kW	5.6/5.4	7.1/6.0	10.0/10.8	10.0/10.8	10.0/8.4	10.0/8.4	7.1/7.0	10.0/13.0	10.0/13.0
Annual electricity consumption (cooling/heating)		kWh/a	307/1848	453/2077	630/3910	630/3910	584/2682	584/2682	475/2513	670/4437	675/4441
Refrigerant (R410A)	GWP		1975								
	charge	kg/TCO$_2$E$_q$	1.5/3.132	2.95/6.160	4.5/9.396		3.8/7.934		2.95/6.160	4.5/9.396	
Designated heating season			Average								

Indoor unit			FDU100VF2	FDU100VF2	FDU71VF1	FDU100VF2	FDU100VF2	FDUM40VF	FDUM50VF	FDUM60VF	FDUM71VF1
Outdoor unit			FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP	SRC40ZSX-S	SRC50ZSX-S	SRC60ZSX-S	FDC71VNX
Energy class (cooling/heating)			A++/A+	A++/A+	A+/A+	A++/A	A++/A+	A+/A+	A+/A+	A++/A+	A/A
SEER			6.11	6.11	5.73	6.56	6.36	6.01	5.68	6.42	5.24
SCOP (Average climate)			4.19	4.19	4.00	3.98	4.13	4.15	4.36	4.37	3.90
Pdesign (cooling/heating (@-10°C))		kW	10.0/8.5	10.0/8.5	7.1/5.7	9.0/8.1	10.0/8.1	4.0/3.5	5.0/4.3	5.6/5.4	7.1/7.0
Annual electricity consumption (cooling/heating)		kWh/a	573/2843	573/2843	434/1995	480/2848	551/2746	233/1182	309/1382	306/1731	475/2513
Refrigerant (R410A)	GWP		1975								
	charge	kg/TCO$_2$E$_q$	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324	1.5/3.132			2.95/6.160
Designated heating season			Average								

- R410A refrigerant contained in the products is a fluorinated greenhouse gas listed in Regulation (EU) No 517/2014.
- SEER/SCOP are based on EN14825.2016 and Commission regulation(EU) No.2016/2281. Temperature conditions for calculating SCOP are based on "Average climate".
- 'tonne(s) of CO_2 equivalent' means a quantity of greenhouse gases- expressed as the product of the weight of the greenhouse gases in metric tonnes and of their global warming potential.

Indoor unit			FDUM100VF2	FDUM100VF2	FDUM40VFx2	FDUM50VFx2	FDUM50VFx2	FDUM100VF2	FDUM100VF2	FDUM50VFx2	FDUM50VFx2
Outdoor unit			FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	FDC100VNA	FDC100VSA
Energy class (cooling/heating)			A/A+	A/A+	A+/A+	A/A	A/A	A++/A+	A++/A+	A/A	A/A
SEER			5.22	5.19	5.61	5.14	5.11	6.11	6.11	5.50	5.50
SCOP (Average climate)			4.10	4.10	4.05	3.88	3.87	4.19	4.19	3.94	3.94
Pdesign (cooling/heating (@-10°C))		kW	10.0/13.0	10.0/13.0	7.1/7.0	10.0/10.0	10.0/10.0	10.0/8.5	10.0/8.5	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)		kWh/a	670/4437	675/4441	444/2422	681/3611	685/3614	573/2843	573/2843	637/3022	637/3022
Refrigerant (R410A)	GWP		1975								
	charge	kg/TCO$_2$E$_q$	4.5/9.396		2.95/6.160	4.5/9.396		3.8/7.934			
Designated heating season			Average								

Indoor unit			FDUM71VF1	FDUM100VF2	FDUM100VF2	SRK50ZSX-Wx2	SRK50ZSX-Wx2	SRK100ZR-S	SRK100ZR-S	SRK100ZR-S	FDE40VG	FDE50VG
Outdoor unit			FDC71VNP	FDC90VNP1	FDC100VNP	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA	FDC100VNP	SRC40ZSX-S	SRC50ZSX-S
Energy class (cooling/heating)			A+/A+	A++/A	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+	A++/A	A++/A
SEER			5.73	6.56	6.36	6.11	6.11	6.26	6.26	6.60	6.46	6.10
SCOP (Average climate)			4.00	3.98	4.13	4.16	4.16	4.33	4.33	4.40	3.93	3.92
Pdesign (cooling/heating (@-10°C))		kW	7.1/5.7	9.0/8.1	10.0/8.1	10.0/10.4	10.0/10.4	10.0/8.5	10.0/8.5	10.0/7.2	4.0/3.0	5.0/3.8
Annual electricity consumption (cooling/heating)		kWh/a	434/1995	480/2848	551/2746	574/3504	574/3504	560/2750	560/2750	531/2289	217/1069	288/1358
Refrigerant (R410A)	GWP		1975									
	charge	kg/TCO$_2$E$_q$	1.6/3.341	2.1/4.385	2.55/5.324	4.5/9.396		3.8/7.934		2.55/5.324	1.5/3.132	
Designated heating season			Average									

Indoor unit			FDE60VG	FDE71VG	FDE100VG	FDE100VG	FDE40VGx2	FDE50VGx2	FDE50VGx2	FDE100VG	FDE100VG
Outdoor unit			SRC60ZSX-S	FDC71VNX	FDC100VNX	FDC100VSX	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA	FDC100VSA
Energy class (cooling/heating)			A++/A+	B/A+	A+/A+	A+/A+	A/A+	A/A	A/A	A++/A+	A++ /A+
SEER			6.72	4.87	5.89	5.84	5.26	5.53	5.49	6.35	6.35
SCOP (Average climate)			4.08	4.00	4.18	4.17	4.09	3.94	3.94	4.31	4.31
Pdesign (cooling/heating (@-10°C))		kW	5.6/4.3	7.1/6.0	10.0/11.2	10.0/11.2	7.1/6.0	10.0/10.8	10.0/10.8	10.0/8.5	10.0/8.5
Annual electricity consumption (cooling/heating)		kWh/a	292/1475	511/2102	595/3754	599/3758	473/2054	634/3836	638/3840	552/2762	552/2762
Refrigerant (R410A)	GWP		1975								
	charge	kg/TCO$_2$E$_q$	1.5/3.132	2.95/6.160	4.5/9.396		2.95/6.160	4.5/9.396		3.8/7.934	
Designated heating season			Average								

Indoor unit			FDE50VGx2	FDE50VGx2	FDE71VG	FDE100VG	FDE100VG	FDF71VD1	FDF100VD2	FDF100VD2	FDF100VD2
Outdoor unit			FDC100VNA	FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP	FDC71VNX	FDC100VNX	FDC100VSX	FDC100VNA
Energy class (cooling/heating)			A+/A+	A+/A+	A++/A+	A++/A+	A++/A+	B/A	A/A	A/A	A+/A+
SEER			5.71	5.71	6.35	6.63	6.73	4.80	5.20	5.17	5.70
SCOP (Average climate)			4.10	4.10	4.22	4.25	4.44	3.81	3.80	3.80	4.00
Pdesign (cooling/heating (@-10°C))		kW	10.0/8.5	10.0/8.5	7.1/5.8	9.0/8.2	10.0/8.1	7.1/6.7	10.0/13.0	10.0/13.0	10.0/8.5
Annual electricity consumption (cooling/heating)		kWh/a	613/2904	613/2904	392/1925	475/2704	521/2556	518/2464	673/4792	678/4795	614/2978
Refrigerant (R410A)	GWP		1975								
	charge	kg/TCO$_2$E$_q$	3.8/7.934		1.6/3.341	2.1/4.385	2.55/5.324	2.95/6.160	4.5/9.396	4.5/9.396	3.8/7.934
Designated heating season			Average								

Indoor unit			FDF100VD2	FDF71VD1	FDF100VD2	FDF100VD2
Outdoor unit			FDC100VSA	FDC71VNP	FDC90VNP1	FDC100VNP
Energy class (cooling/heating)			A+/A+	A/A	A+/A+	A/A
SEER			5.70	5.25	5.69	5.41
SCOP (Average climate)			4.00	3.91	4.01	3.94
Pdesign (cooling/heating (@-10°C))		kW	10.0/8.5	7.1/5.5	9.0/8.1	10.0/8.1
Annual electricity consumption (cooling/heating)		kWh/a	614/2978	474/1972	554/2825	647/2875
Refrigerant (R410A)	GWP		1975			
	charge	kg/TCO$_2$E$_q$	3.8/7.934	1.6/3.341	2.1/4.385	2.55/5.324
Designated heating season			Average			

SEER and SCOP is defined in European regulations listed below.

No.2016/2281: requirement for air-heating products, cooling products, high temperature process chillers and fan coil units.Seasonal efficiency is the new way of rating the true efficiency of heating and cooling products over an entire year.
Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.
The new Seasonal Efficiency rating system that must be used for heating and cooling by all manufacturers are;

Indoor unit	FDT125VG	FDT140VG	FDT125VG	FDT140VG	FDT125VG	FDT140VG	FDT125VG	FDT140VG	FDU125VF
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNX
SEER	5.77	5.66	5.94	5.82	6.52	6.16	6.52	6.16	5.34
SCOP (Average climate)	4.08	4.04	4.03	3.99	4.38	4.28	4.38	4.28	3.87

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

Indoor unit	FDUM125VF	FDUM140VF	FDUM125VF	FDUM140VF	FDUM125VF	FDUM140VF	FDUM125VF	FDUM140VF	FDE125VG
Outdoor unit	FDC125VNX	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNX
SEER	5.34	5.22	5.49	5.36	5.26	5.08	5.26	5.08	5.56
SCOP (Average climate)	3.87	3.85	3.91	3.88	4.13	4.01	4.13	4.01	3.71

Indoor unit	FDE140VG	FDE125VG	FDE140VG	FDE125VG	FDE140VG	FDE125VG	FDE140VG	FDF125VD	FDF140VD
Outdoor unit	FDC140VNX	FDC125VSX	FDC140VSX	FDC125VNA	FDC140VNA	FDC125VSA	FDC140VSA	FDC125VNX	FDC140VNX
SEER	5.41	5.74	5.56	6.03	5.76	6.03	5.76	4.97	4.80
SCOP (Average climate)	3.66	3.66	3.62	4.30	4.15	4.30	4.15	3.60	3.56

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

Before starting use

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

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

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

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

Use in places with high ceilings
If the ceiling is high, install a circulator to improve the heat and air flow distribution when heating.

Refrigerant leakage
The refrigerant (R410A) used for Air conditioner is non-toxic and inflammable in its original state.
However, in consideration of a state where the refrigerant leaks into the room, measures against refrigerant leaks must be taken in small rooms where the tolerable level could be exceeded. Take measures by installing ventilation devices, etc.

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

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

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

Automatic defrosting device
If the temperature is low, and the humidity is high, frost will stick to the heat exchanger of the outdoor unit. If use is continued, the heating performance will drop.
The "Automatic defrosting device" will function to remove this frost.
After heating for approx, three to ten minutes, it will stop, and the frost will be removed. After defrosting, hot air will be blown again.

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

⚠ Safety Precautions

Air-conditioner usage target
The air-conditioner described in this catalog is a dedicated cooling/heating device for human use.
Do not use it for special applications such as the storage of food items, animals or plants, precision devices or valuable art, etc.
This could cause the quality of the items to drop, etc.
Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

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

Installation
Always commission the installation to a dealer or specialist. Improper installation will lead to water leakage, electric shocks and fires.
Make sure that the outdoor unit is stable in installation. Fix the unit to stable base.

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

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Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001
Certificate Number : JQA-0709
Certificate Number : 4333-2007-AQ-RGC-RvA

Certified ISO 14001
Certificate Number : YKA4005636
Certificate number : 02117E10160R0M