

High Performance Air-Conditioning 2017



CE

50/60Hz

17P01E

FD series

Inverter Packaged Air-Conditioners



High Performance Air-Conditioning FDseries

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

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

CONTENTS

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



New Generation FDT



Automatic energy saving control

Keep maximum comfort with minimal draft

Quiet operation

New!

Draft Prevention Panel (Option)

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

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

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

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



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

New!

Motion Sensor (Option)

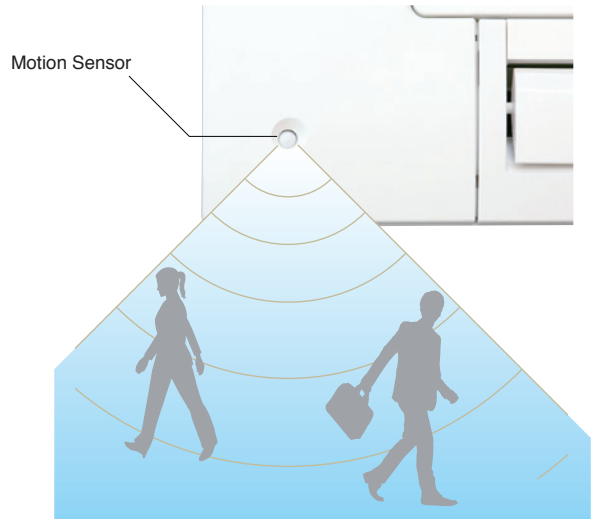
Two energy saving control by detecting human moving

Power Control

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

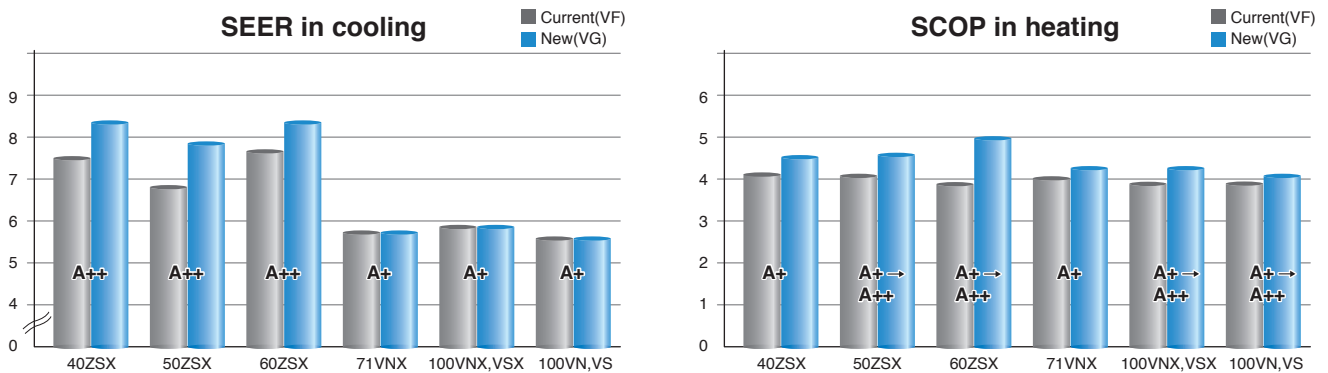
Auto-off

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



High energy efficiency with new technology

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

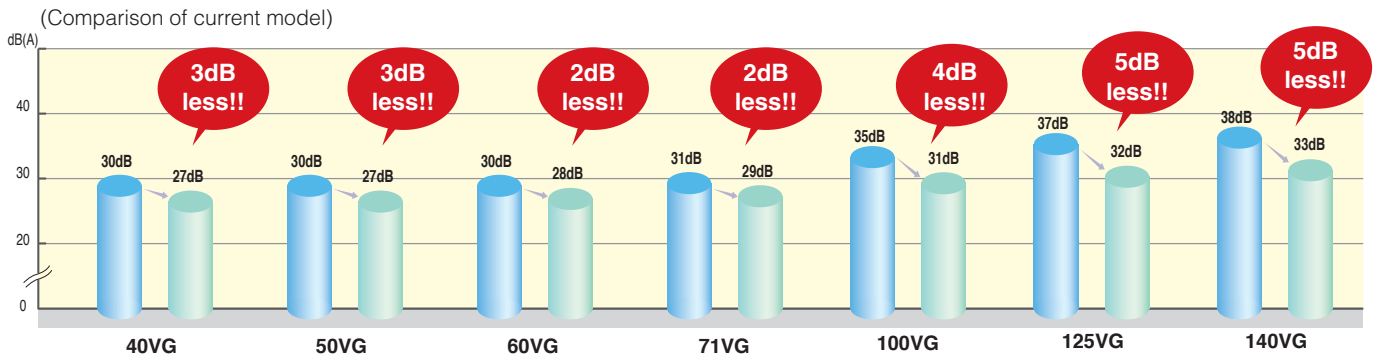


● SEER and SCOP is defined in European regulations. Please refer to P70.

More quiet noise

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

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

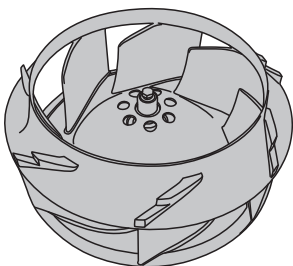


Improve the aerodynamic performance of the unit

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

● New design turbo fan

● Fan guard (standard equipment)





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

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

It is now a global design award with participation from numerous Japanese and international companies and organizations. The "G Mark", the symbol of the Good Design Award, is known widely as a symbol of excellent design.

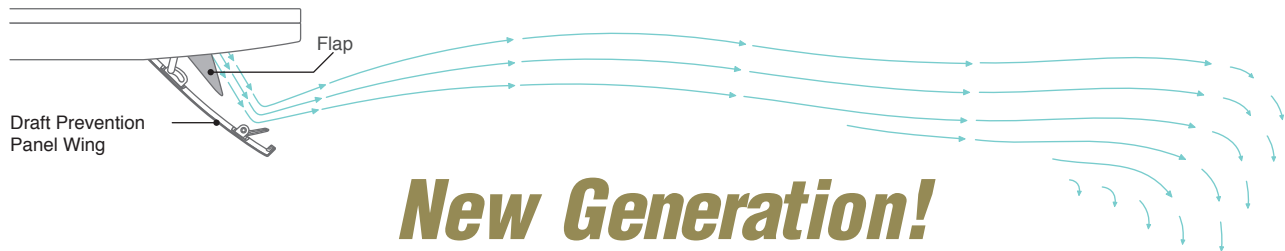
User



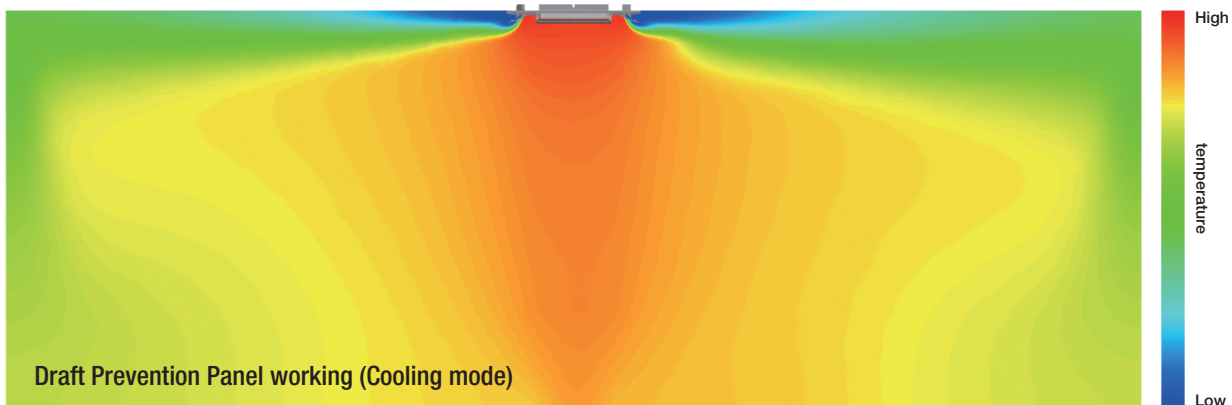
Draft Prevention Panel

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

Draft Prevention Panel Operating Image



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.

Motion sensor

Energy saving control by detecting human moving

User



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

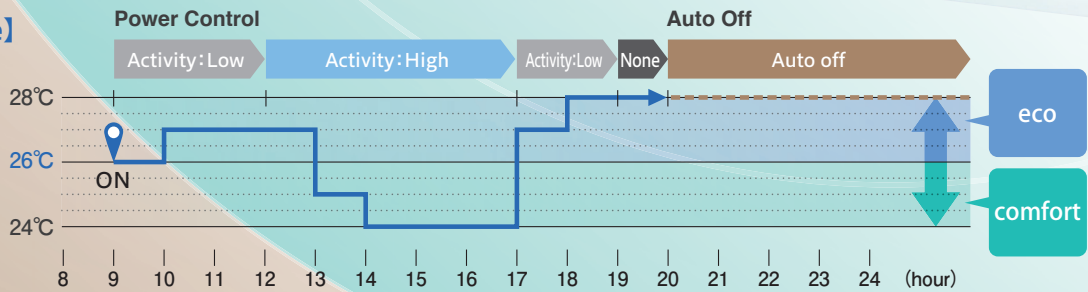
Auto Off

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

[temperature]

26°C

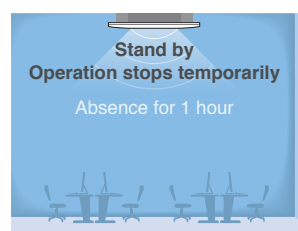
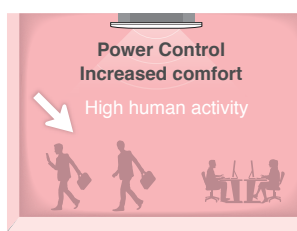
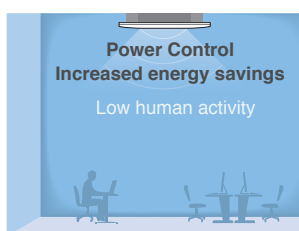
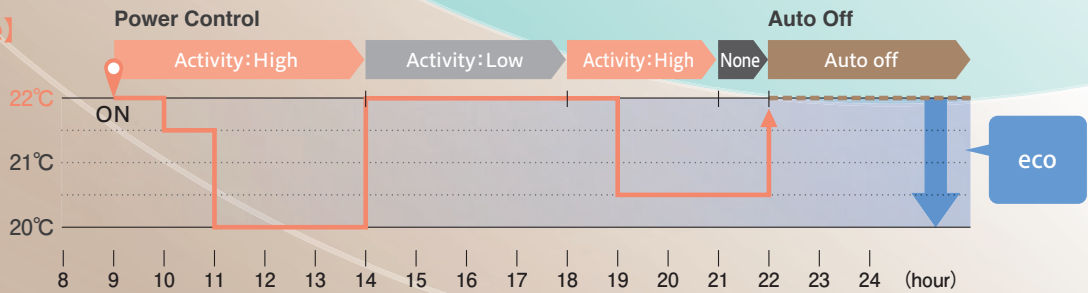
in cooling



[temperature]

22°C

in heating



Operation mode and Control of Motion sensor

eco operation
comfort operation

Operation mode

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

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

Serviceability & workability

Easy and quick installation and maintenance

Builder Maintenance



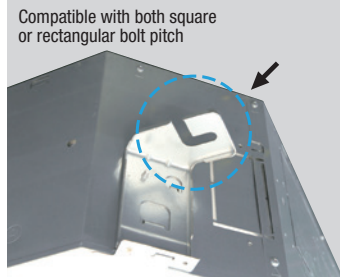
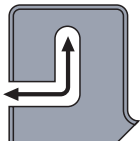
Quick positioning !

Indoor unit is easily positioned and installed

1 Adjustable easier positioning of unit by new slits

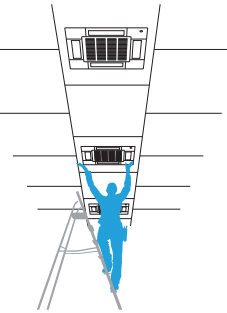
New shape of slit is suitable to install the unit with more flexibility, according to many kinds of suspending bolt pitch on site.

Any rectangular or squared pitch of suspending bolts are available with this slit.



2 New slit in panel allows easier installation on site.

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

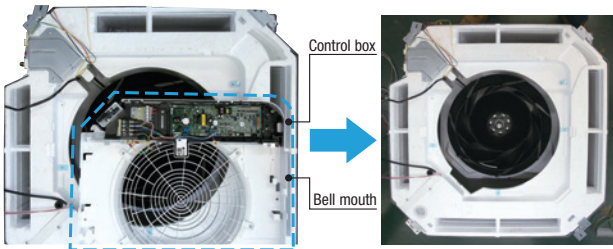


Quick installation and maintenance

1 Easy access to component part for easy maintenance.

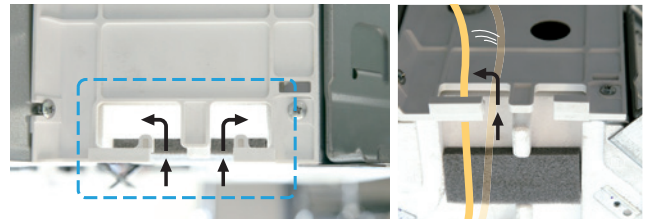
1 The control box and bell mouth can be removed together.

2 Easy access to impeller and fan motor.



2 New shape of path of wiring

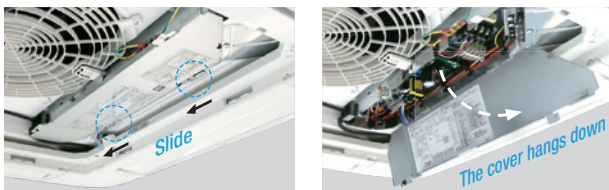
New shape of path gives easy wiring work for installation.



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

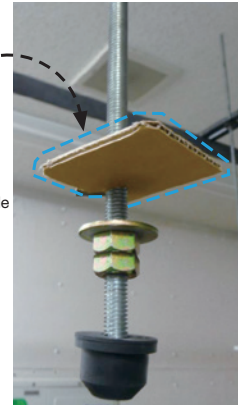
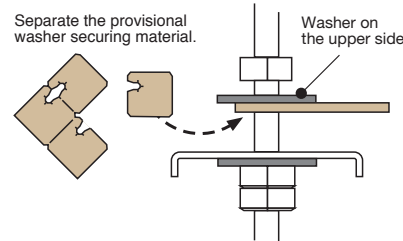
It is possible to loose and slide open the cover without remove of the screws.

This prevents the cover from falling and damaging to stuffs on site.



4 More safe installation by stopper of washer

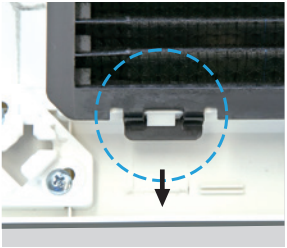
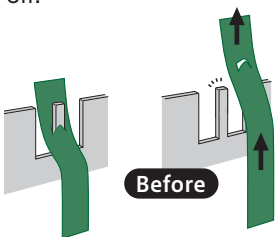

When unit is installed with hook between washers, this stopper helps to install the unit safely, without adjusting washer.

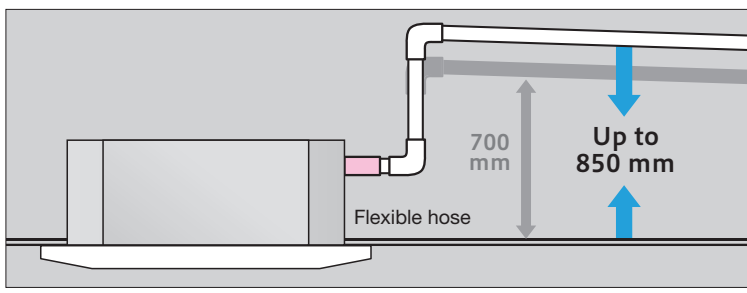
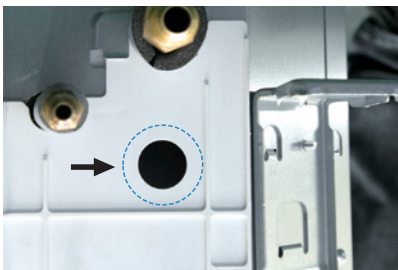


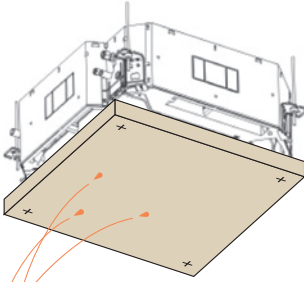
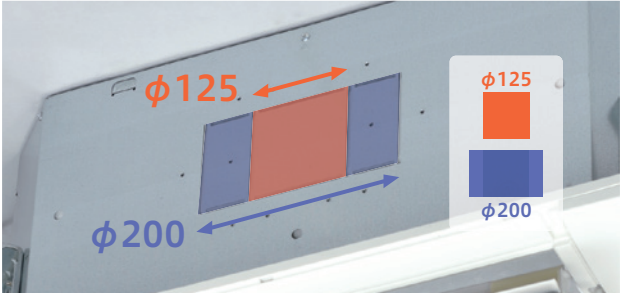


For smooth and easy working

Good help for installation and maintenance

| | |
|---|---|
| <p>1 Easy and flexible hook to remove the filter</p> <p>Hook of soft material helps to remove the filter without dust spreading.</p>  <p>Press the filter tab to the outside and remove the filter.</p> | <p>2 Surely fix the corner lid by strap</p> <p>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.</p>   <p>Easy to hook but not easy to loose</p> |
|---|---|

| | |
|---|---|
| <p>3 Drain-up-lift increases up to 850 mm (previous:700mm)</p> <p>The drain can be lifted up to 850 mm from the ceiling surface.</p>  | <p>4 New port to check drain water flow</p> <p>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.)</p>  |
|---|---|

| | |
|---|--|
| <p>5 Re-use of packages during construction work</p> <p>Package material (carton) help to protect the unit from unexpected welding spatter or coming dust to the new unit.</p>  | <p>6 More flexible outlet for ducting</p> <p>Both $\phi 125$ and $\phi 200$ (oval shaped) are available.</p>  |
|---|--|



Simple use with advanced setting **REMOTE CONTROL**

Easy touch and Easy view with full dot Liquid Crystal display



RC-EX1A



RC-EX3

Bright screen

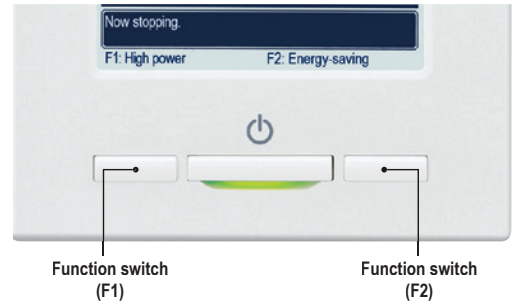
New!

New functions

Function Switch

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

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



1 High Power Mode

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



2 Energy Saving Mode

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



3 Quiet Mode

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



4 Home Leave Mode

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



5 Favorite Mode

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

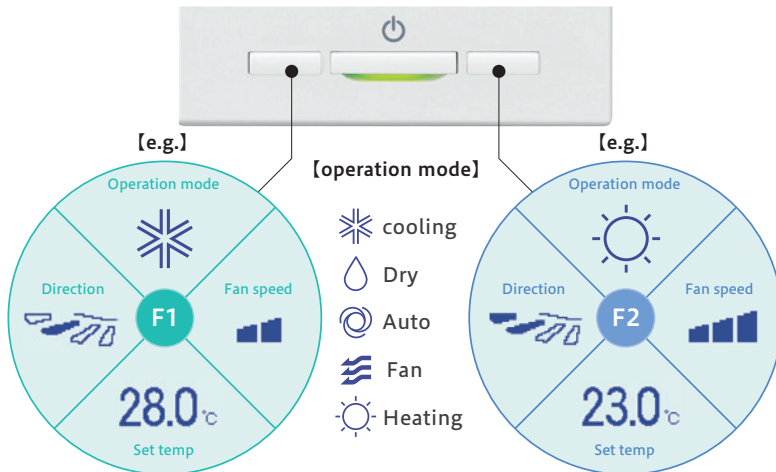


6 Filter Sign

Announces the due time for cleaning the air filter.

Favorite Mode

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



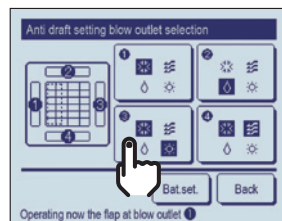
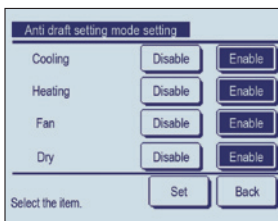
Adjusting Brightness of the Operation lamp

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



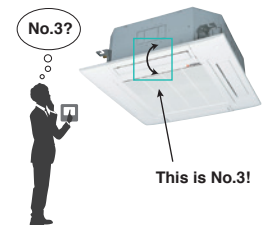
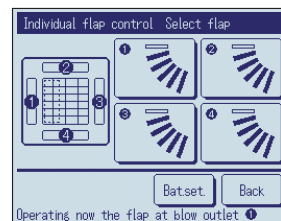
Draft prevention setting(only FDT series)

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



Easy modification of Air Flow

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



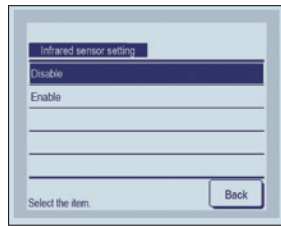
Motion sensor control

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

- 1 Select Enable / Disable
Motion sensor control



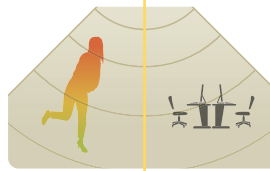
Enable / Disable



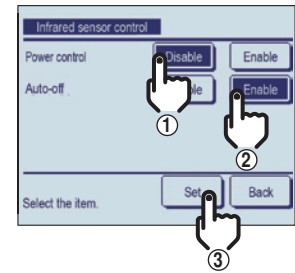
Select [Enable] / [Disable] for the motion sensor of the indoor unit connected to the R/C.

- 2 Select Enable / Disable per control

- Power control
- Auto-off



Enable / Disable



Backup Control

Control restricted to two indoor units (two groups)

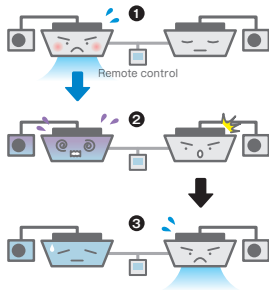


Fault backup control



Keep back up all the time!

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

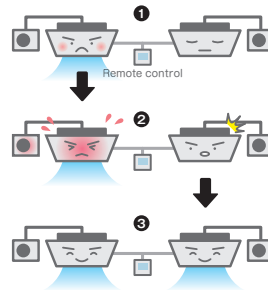


Capacity backup control



Maintains users' comfort!

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

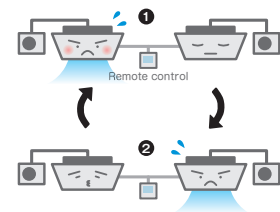


Rotational operation control



Energy saving and longer life!

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



Additional functions of External Input / Output

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



Remote surveillance system



Card key on-off

External Input

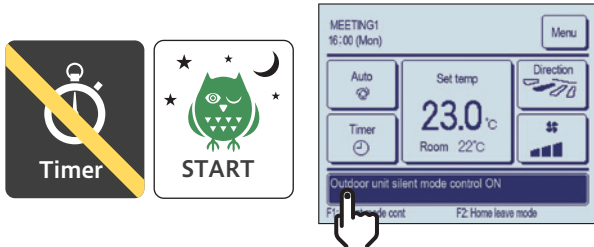
| CNT (1-6) CNTA (1-2) | |
|-------------------------|--|
| Input | On/Off Permission/Prohibition Cooling/Heating Emergency Stop |
| Newly added | Set temp. shift Forced thermo-off IU operation stop Silent mode |

External Output

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

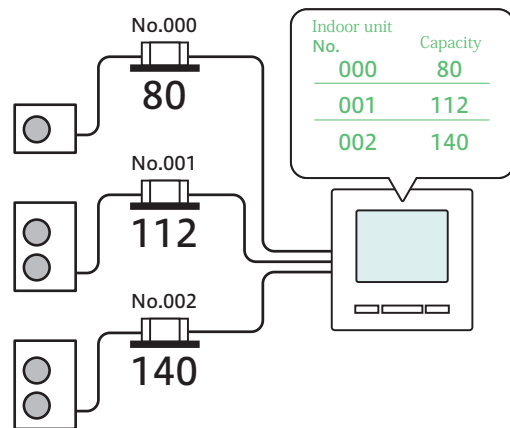
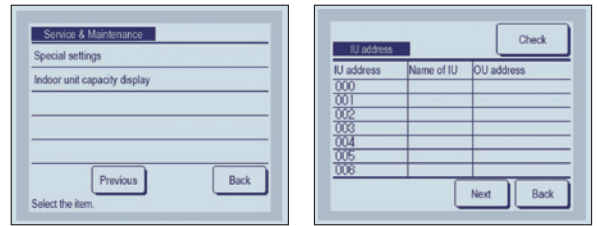
Silent mode control

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



Indoor unit capacity display

Capacities of Indoor units connected to the RC-EX3 are displayed.



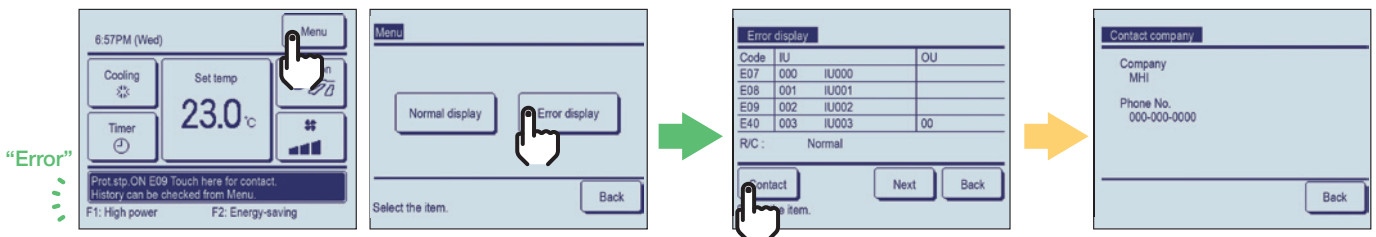
Language Switching

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



Contact company & Error display

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



New Wireless Kit & New Wireless Remote Controller

New Line-up

| Model | Wireless kit |
|-------|---------------|
| FDT | RCN-T-5AW-E2 |
| FDTC | RCN-TC-24W-E2 |
| FDE | RCN-E-E2 |
| FDU | RCN-KIT4-E2 |
| FDUM | |
| FDF | |

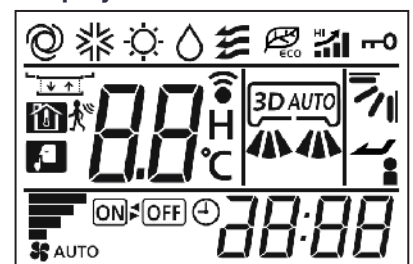
Function added

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

The functions and the operations will be improved.



Display



Hyper Inverter

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

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



Line up

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

NEW



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



FDC71VNX (3.0HP)

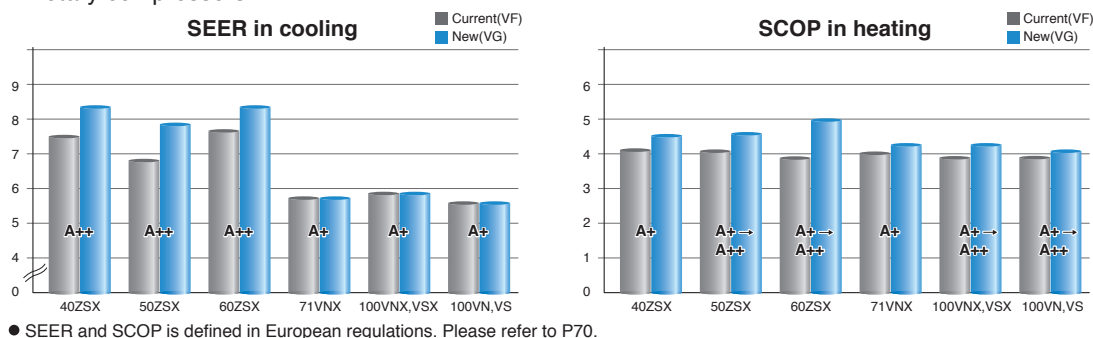


FDC100VNX/VSX (4.0HP)
FDC125VNX/VSX (5.0HP)
FDC140VNX/VSX (6.0HP)



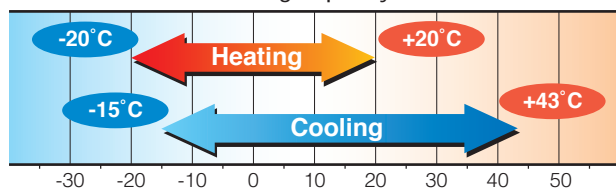
High efficiency (comparison of FDT series)

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



Strong heating (Hyper Inverter 3~6HP)

-20°C : Heating operation down to -20°C
 -15°C : Nominal heating capacity maintained at -15°C

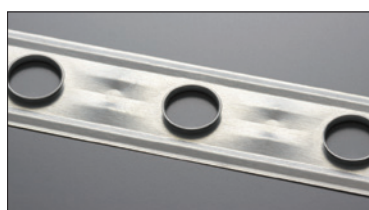
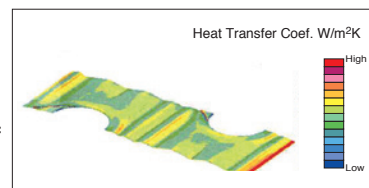


Max. heating capacity (kW)

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

Heat exchanger (All outdoor units)

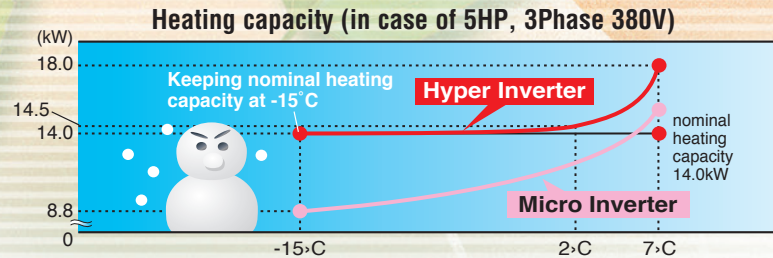
Thanks to changing fin configuration from flat sheet to M shape fin. This high dimensional structure provides optimum balance of heat transfer and airflow.



Leading powerful heating capacity in the industry

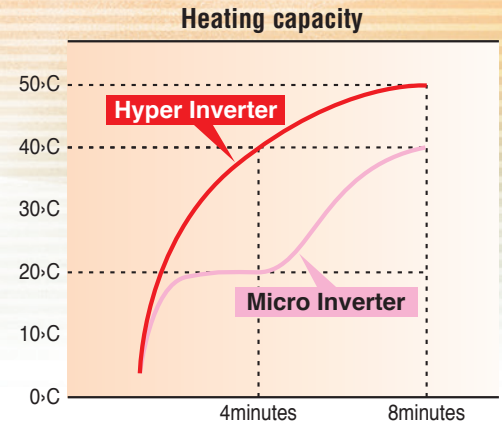
Thanks to optimization of refrigeration control with use of electric expansion valve and development of twin rotary compressors, max heating capacity has been increased. Hyper Inverter series can reach the set temperature very quickly, keeping nominal heating capacity when outdoor temperature is -15°C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

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



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

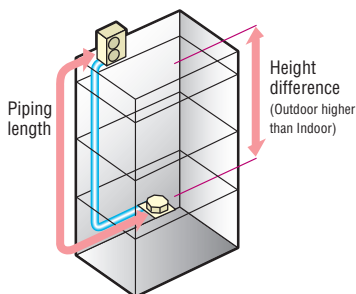
Please refer to our technical manual for installation conditions, operation range and heating/cooling capacities. (including 1Phase 220V)



Installation workability

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

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



Hyper Inverter

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

Micro Inverter

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

Standard Inverter

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

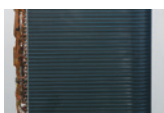
Point 2 Refrigerant precharged piping length extending to 30m

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

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

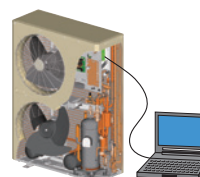
Point 3 Blue Fin (3~10HP)

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



Point 4 Monitoring Function (All series)

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



Point 5 Base heater kit (option)

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

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



Micro Inverter

Line up

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



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

Blue Fin



FDC200VSA (8.0HP)

Blue Fin



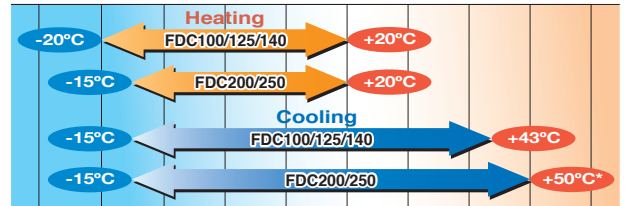
FDC250VSA (10.0HP)

Blue Fin

Tropical Usage Mode

Wide range of operation

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



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

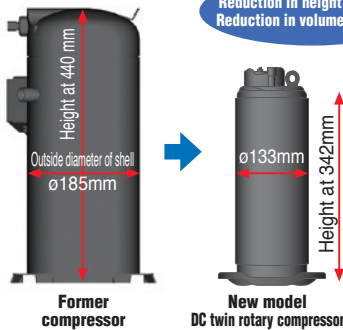
2 Layer Construction (Micro Inverter 10HP)

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



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

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



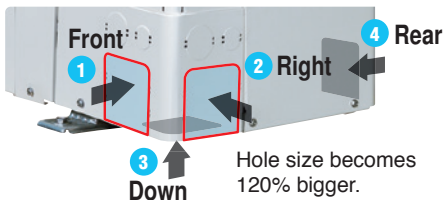
Reduction in height by 22.3%
 Reduction in volume by 44.1%

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



Serviceability (Micro Inverter 10HP)

● Improved freedom of piping layout



Hole size becomes 120% bigger.

● Four handles

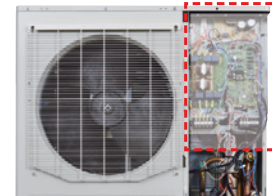


● Wire insertion holes for fall prevention



Located at the same level for easy transport and transfer.

● A transparent rain cover



Attached as a standard for easy maintenance.

● Fixing screws to service panel

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

Standard Inverter

Line up

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



FDC71VNP (3.0HP)

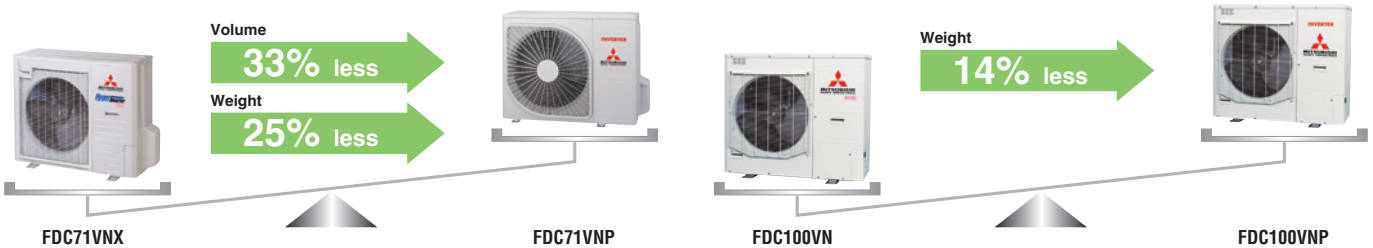


FDC90VNP (3.5HP)



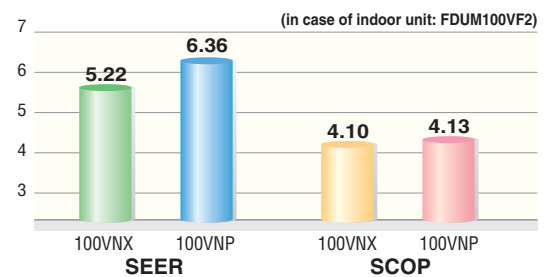
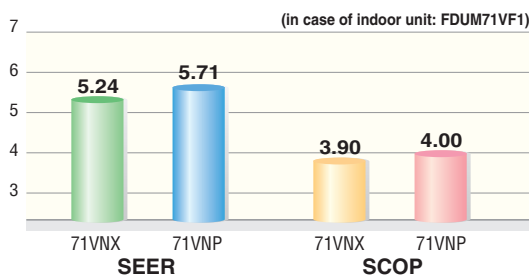
FDC100VNP (4.0HP)

Compact Design of outdoor units



High SEER & SCOP

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



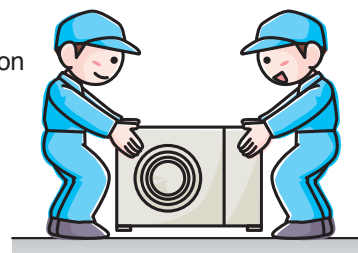
※ Please refer to P70.

All outdoor units (Hyper, Micro, Standard)

Fits into elevators










Easy installation



PRODUCT LINE UP

SINGLE SPLITS

| Type | | Hyper Inverter | | | | | | | |
|-------------------|--|--|------------|--------------------|--------------------|--------------------|----------------------|----------------------|---------------------|
| | | HP | 1.5 | 2.0 | 2.5 | 3.0 | 4.0 | | |
| | | kW | 4.0 | 5.0 | 6.0 | 7.1 | 10.0 | | |
| | | Btu/h | 13,600 | 17,100 | 20,500 | 24,200 | 34,100 | | |
| | | kcal/h | 3,440 | 4,300 | 5,160 | 6,100 | 8,600 | | |
| CEILING CASSETTE | 4way FDT  NEW P.24 | 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 (600 x 600mm) FDTC  P.32 | Set | 1Phase | FDT40ZSXVF | FDT50ZSXVF | FDT60ZSXVF | | | |
| Indoor unit | | | FDTC40VF | FDTC50VF | FDTC60VF | | | | |
| Outdoor unit | | 1Phase | SRC40ZSX-S | SRC50ZSX-S | SRC60ZSX-S | | | | |
| | 3Phase | | | | | | | | |
| DUCT CONNECTED | High Static pressure FDU  P.36 | Set | 1Phase | | | | FDU71VNXVF1 | FDU100VNXVF2 | |
| | | | 3Phase | | | | | FDU100VSXVF2 | |
| | | Indoor unit | | | | | FDU71VF1 | FDU100VF2 | |
| | Outdoor unit | 1Phase | | | | FDC71VNX | FDC100VNX | | |
| | | 3Phase | | | | | | FDC100VSX | |
| | Low/Middle Static pressure FDUM  P.41 | 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.48 | Set | 1Phase | | | | | | |
| | | Indoor unit | | | | | | | |
| | | Outdoor unit | 1Phase | | | | | | |
| CEILING SUSPENDED | FDE  P.52 | 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.58 | Set | 1Phase | | | | FDF71VNXVD1 | FDF100VNXVD2 |
| | | | 3Phase | | | | | FDF100VSXVD2 | |
| Indoor unit | | | | | | FDF71VD1 | FDF100VD2 | | |
| Outdoor unit | | | 1Phase | | | | FDC71VNX | FDC100VNX | |
| | 3Phase | | | | | | FDC100VSX | | |

Capacity Range (Nominal Cooling Capacity)

| | | <i>Micro Inverter</i> | | | | | <i>Standard Inverter</i> | | |
|---------------------|---------------------|-----------------------|--------------------|--------------------|---------------------|---------------------|--------------------------|---------------------|-----------------------|
| 5.0 | 6.0 | 4.0 | 5.0 | 6.0 | 8.0 | 10.0 | 3.0 | 3.5 | 4.0 |
| 12.5 | 14.0 | 10.0 | 12.5 | 14.0 | 20.0 | 24.0 | 7.1 | 9.0 | 10.0 |
| 42,700 | 47,800 | 34,100 | 42,700 | 47,800 | 68,200 | 81,300 | 24,200 | 30,700 | 34,100 |
| 10,750 | 12,040 | 8,600 | 10,750 | 12,040 | 17,200 | 20,640 | 6,100 | 7,740 | 8,600 |
| FDT125VNXVG | FDT140VNXVG | FDT100VNVG | FDT125VNVG | FDT140VNVG | | | FDT71VNPVG | FDT90VNPVG | FDT100VNP1VG |
| FDT125VSXVG | FDT140VSXVG | FDT100VSVG | FDT125VSVG | FDT140VSVG | | | | | |
| FDT125VG | FDT140VG | FDT100VG | FDT125VG | FDT140VG | | | FDT71VG | FDT100VG | FDT100VG |
| FDC125VNX | FDC140VNX | FDC100VN | FDC125VN | FDC140VN | | | FDC71VNP | FDC90VNP | FDC100VNP |
| FDC125VSX | FDC140VSX | FDC100VS | FDC125VS | FDC140VS | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| FDU125VNXVF | FDU140VNXVF | FDU100VNVF2 | FDU125VNVF | FDU140VNVF | | | FDU71VNPVF1 | FDU90VNPVF2 | FDU100VNP1VF2 |
| FDU125VSXVF | FDU140VSXVF | FDU100VSF2 | FDU125VSF | FDU140VSF | FDU200VSAVG* | FDU250VSAVG* | | | |
| FDU125VF | FDU140VF | FDU100VF2 | FDU125VF | FDU140VF | FDU200VG | FDU250VG | FDU71VF1 | FDU100VF2 | FDU100VF2 |
| FDC125VNX | FDC140VNX | FDC100VN | FDC125VN | FDC140VN | | | FDC71VNP | FDC90VNP | FDC100VNP |
| FDC125VSX | FDC140VSX | FDC100VS | FDC125VS | FDC140VS | FDC200VSA | FDC250VSA | | | |
| FDUM125VNXVF | FDUM140VNXVF | FDUM100VNVF2 | FDUM125VNVF | FDUM140VNVF | | | FDUM71VNPVF1 | FDUM90VNPVF2 | FDUM100VNP1VF2 |
| FDUM125VSXVF | FDUM140VSXVF | FDUM100VSF2 | FDUM125VSF | FDUM140VSF | | | | | |
| FDUM125VF | FDUM140VF | FDUM100VF2 | FDUM125VF | FDUM140VF | | | FDUM71VF1 | FDUM100VF2 | FDUM100VF2 |
| FDC125VNX | FDC140VNX | FDC100VN | FDC125VN | FDC140VN | | | FDC71VNP | FDC90VNP | FDC100VNP |
| FDC125VSX | FDC140VSX | FDC100VS | FDC125VS | FDC140VS | | | | | |
| | | | | | | | | | SRK100VNP1ZR |
| | | | | | | | | | SRK100ZR-S |
| | | | | | | | | | FDC100VNP |
| FDE125VNXVG | FDE140VNXVG | FDE100VNVG | FDE125VNVG | FDE140VNVG | | | FDE71VNPVG | FDE90VNPVG | FDE100VNP1VG |
| FDE125VSXVG | FDE140VSXVG | FDE100VSVG | FDE125VSVG | FDE140VSVG | | | | | |
| FDE125VG | FDE140VG | FDE100VG | FDE125VG | FDE140VG | | | FDE71VG | FDE100VG | FDE100VG |
| FDC125VNX | FDC140VNX | FDC100VN | FDC125VN | FDC140VN | | | FDC71VNP | FDC90VNP | FDC100VNP |
| FDC125VSX | FDC140VSX | FDC100VS | FDC125VS | FDC140VS | | | | | |
| FDV125VNXVD | FDV140VNXVD | FDV100VNV2 | FDV125VNV2 | FDV140VNV2 | | | FDV71VNPVD1 | FDV90VNPVD2 | FDV100VNP1VD2 |
| FDV125VSXVD | FDV140VSXVD | FDV100VSVD2 | FDV125VSVD | FDV140VSVD | | | | | |
| FDV125VD | FDV140VD | FDV100VD2 | FDV125VD | FDV140VD | | | FDV71VD1 | FDV100VD2 | FDV100VD2 |
| FDC125VNX | FDC140VNX | FDC100VN | FDC125VN | FDC140VN | | | FDC71VNP | FDC90VNP | FDC100VNP |
| FDC125VSX | FDC140VSX | FDC100VS | FDC125VS | FDC140VS | | | | | |

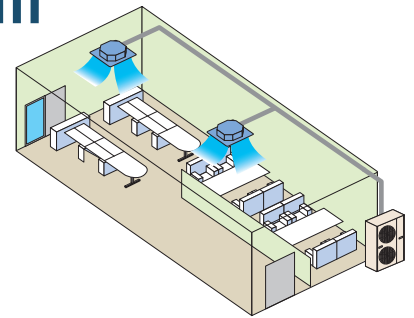
*Tropical Usage Mode

■ MULTI SYSTEM



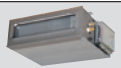



Twin / Triple / Double Twin Multi System

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

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



■ Applicable indoor units

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

■ Combination of indoor units

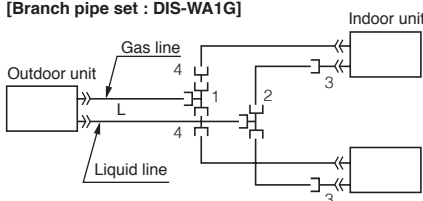
| Outdoor Unit | Hyper Inverter | | | | Micro Inverter | | | | |
|--------------------|----------------|------------------------|------------------------|------------------------|----------------------|----------------------|----------------------|--------------|-------------|
| | FDC71VNX | FDC100VNX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

Decision of piping specification

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

Twin type

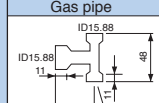
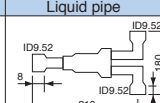
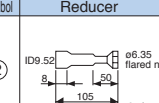
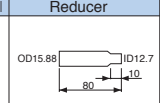
Models FDC71VNX, FDC100~140VN/VS
[Branch pipe set : DIS-WA1G]



(Example)

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

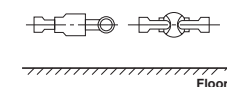
Notes (1) When 40-60 models of indoor units are applied to this combination, the reducer 3 supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size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

| Chart of shapes of branch piping parts (DIS-WA1G) | Gas pipe | Symbol | Liquid pipe | Symbol | Reducer | Symbol | Reducer | Symbol |
|---|---|---------------------------------------|-------------|---|--------------------------------------|--|---|--|
| |  | ID15.88 ID15.88 ø9 ø11 24 | ① |  | ID9.52 ID9.52 ø8 ø11 210 | ② |  | ID9.52 ø6.35 flared nut 105 2 piece |
| | | | | | |  | OD15.88 ID12.7 ø10 80 2 piece | ④ |

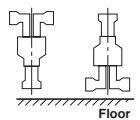
Notes (1) Symbol 1 to 4 in the drawing shows the symbols of branch piping parts in the chart respectively.
(2) Branch piping should always be arranged to have level or perpendicular position.

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

2-Way Branch

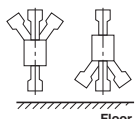
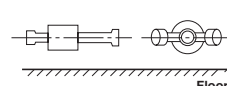


Mount sections level with the floor.



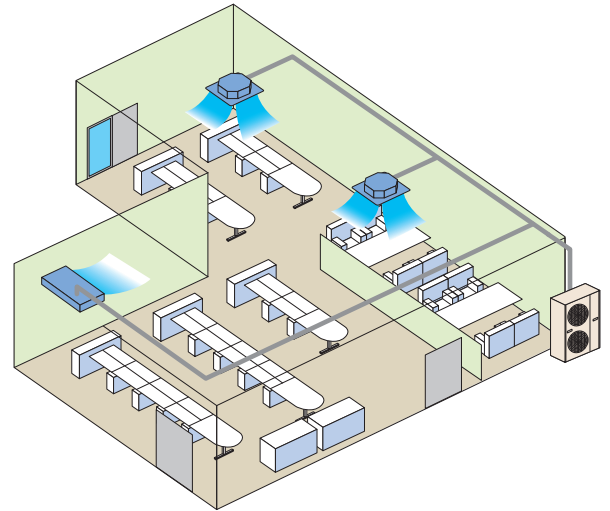
Mount sections perpendicular to the floor.

3-Way Branch



V Multi System

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



Applicable indoor units

| Model | Capacity | | | | | |
|---------------------------------|----------|----|----|----|-----|-----|
| | 40 | 50 | 60 | 71 | 100 | 125 |
| 4way FDT | | | | | | |
| Ceiling Suspended FDE | | | | | | |

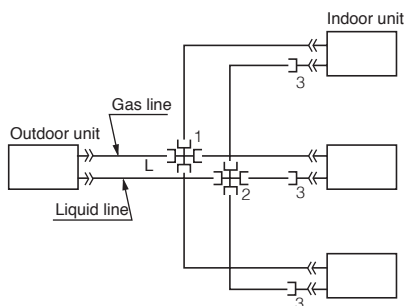
Combination of indoor units

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

Triple type

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

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



(Example)

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


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



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








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

BENEFITS SUMMARY

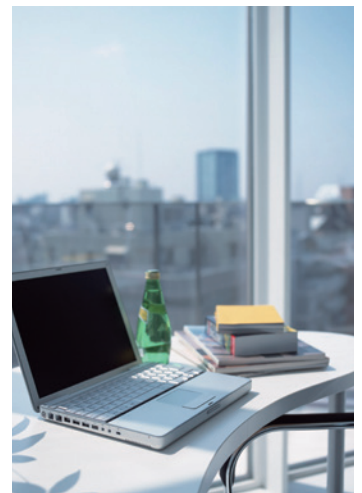
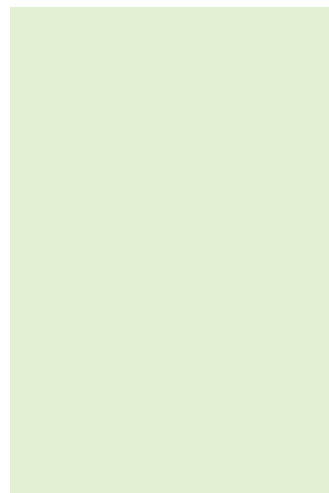
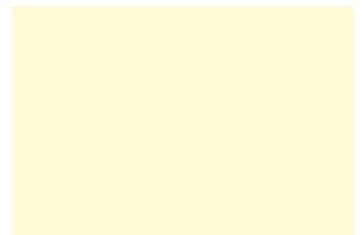
Indoor units

When using RC-EX3 (Remote control), functions with symbol  are available. However, for RC-E5 (Remote control), functions with ※ are not available.

| | | |
|------------|---|---|
| Economy | 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 ※ | 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. |
| | Set temperature auto return ※ | The temperature automatically returns to the previously set temperature. |
| Comfort | Automatic operation | The air conditioner automatically selects from among heating, cooling operations. |
| | Silent mode | The unit can be set to prioritise the period of time it operates at a lower noise level. |
| | Draft prevention | When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draft. After warming up, air discharge and fan speed are set as desired. |
| | Hi power mode ※ | The high power operation adjusts the room temperature quickly to a pleasant level by increasing the operation capacity. The high power operation continues for 15 minutes at maximum and returns to the normal operation automatically. |
| Air flow | Flap control system | Motion range (upper and lower limit positions) of the flap at each air outlet can be set at a desired range individually. |
| | Vertical auto swing | Flap moves up and down continuously. The Up/Down flap swing can be fixed at the preferred operation angle. |
| | Ceiling stain prevention | The shape & angled louver redirects the air current away from the ceiling reducing ceiling stains. |
| | Automatic fan speed | The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature. |
| Timer | Sleep timer | Set the time period from start to stop of operation. The selectable range of setting time is from 30 to 240 minutes (at 10-minute intervals). |
| | Peak-cut timer ※ | Capacity control can be set by using peak cut function on RC-EX3 for better energy saving. Five-step capacity control is available. |
| | Weekly timer | On or Off timer can be set on a weekly basis. |
| Convenient | Function Switch ※  | The function switch allows user to select and set two functions among six available functions. (Cannot be used when a centralied control remote is connected) |
| | Favorite setting ※  | Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting. |
| | Static pressure adjustment | This is operable when connecting duct type indoor units equipped with the external static pressure adjustment function. It will adjust the airflow accordingly based on the connected duct static pressure. |
| | Remote control | User can select wired remote controls, wireless remote controls or central remote controls. |
| | Select the language ※ | Set the language to be displayed on the remote control. |
| | Air filter | Removes airborne dust particles through the air filter to ensure a steady supply of clean air. |
| | Filter sign | Announces the due time for cleaning of the air filter. |
| | Outside air intake | Outside fresh air can be taken inside. |
| Others | Self-diagnosis | In the case that the air conditioner malfunctions, an internal microcomputer automatically runs a self-diagnosis. (Inspection and repair should be performed by authorized dealers.) |
| | Drain up | It allows for a flexible piping layout for condensate allowing a high degree of freedom depending on the installation location |

| FDT | FDTC | FDU | FDUM | SRK | FDE | FDG |
|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | | | ● | ● | |
| ● | ● | ● | ● | ● | ● | |
| ● | ● | | | ● | ● | |
| ● | ● | | | ● | ● | ● |
| ● | ● | | | ● | ● | |
| ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● |
| | ● | ● | ● | | ● | |
| Option | Option | Option | Option | Option | Option | Option |
| ● | ● | ● | ● | ● | ● | |
| ● | ● | Procure locally | Option | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● |
| ● | Option | ● | ● | | ● | |
| ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | | | |

*1 : Except 200 • 250



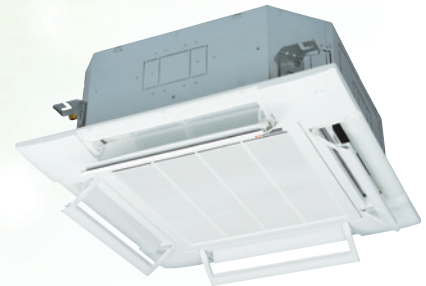
CEILING CASSETTE -4way- FDT



NEW



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

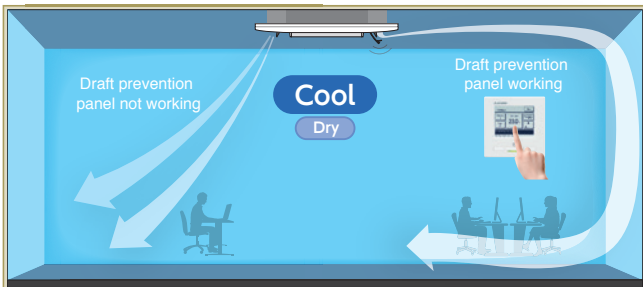


Draft Prevention Panel (Option)



Point 1 Draft Prevention Panel (Option)

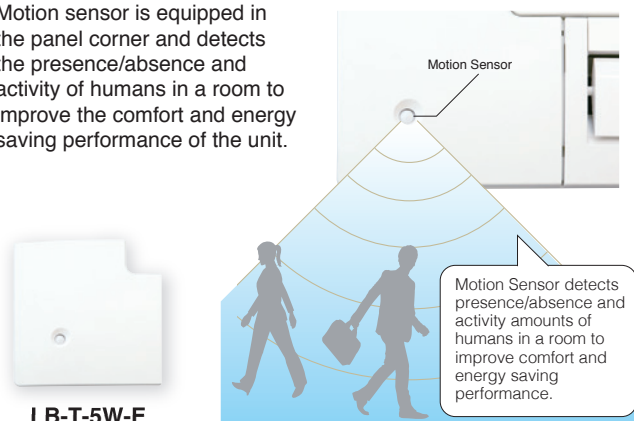
Draft Prevention Panel prevents cold/hot draft being blown directly on the user. It is possible to set Draft Prevention Panel for each air outlet.



User can position Draft Prevention Panel panels by using the remote controller only (RC-EX3, 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

NEW Wireless

NEW



RC-EX3



RC-E5



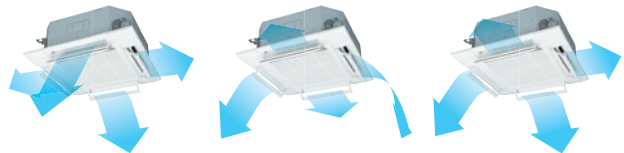
RCH-E3



RCN-T-5AW-E2

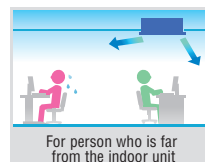
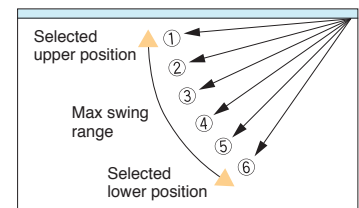
Point 3 Individual flap control system

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



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

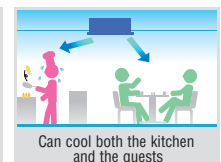
※The wireless remote control is not applicable to the Individual flap control system.



For person who is far from the indoor unit



For both persons who are feeling hot or cold

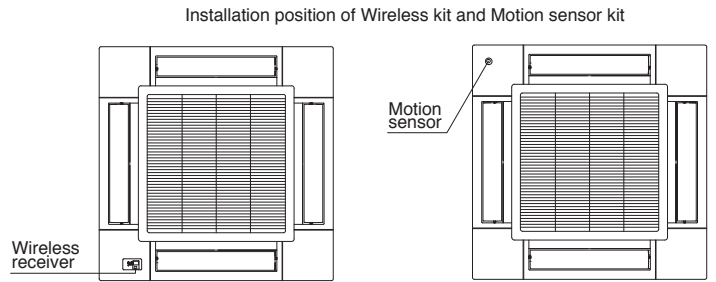
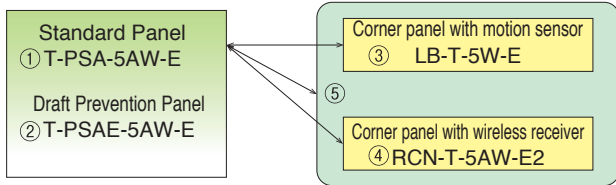


Can cool both the kitchen and the guests

Point 4 Panel select pattern

(Option)

8 patterns of panel are available.

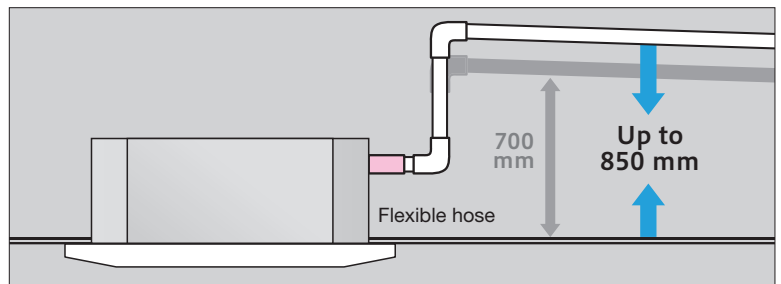


*Wireless receiver and Motion sensor can be installed to the position as shown

- 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

Point 5 850mm Drain Pump

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

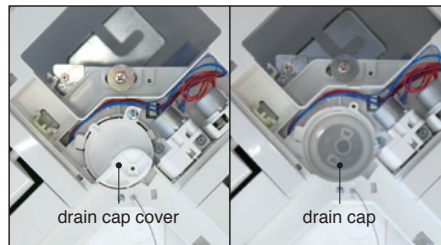


Point 6 Easy check of drain pan

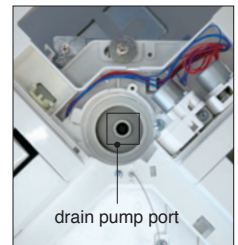
Easy check of drain pan condition is available by removing corner lid only.



Remove corner lid.












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



Clean up the area around the drain pump port.

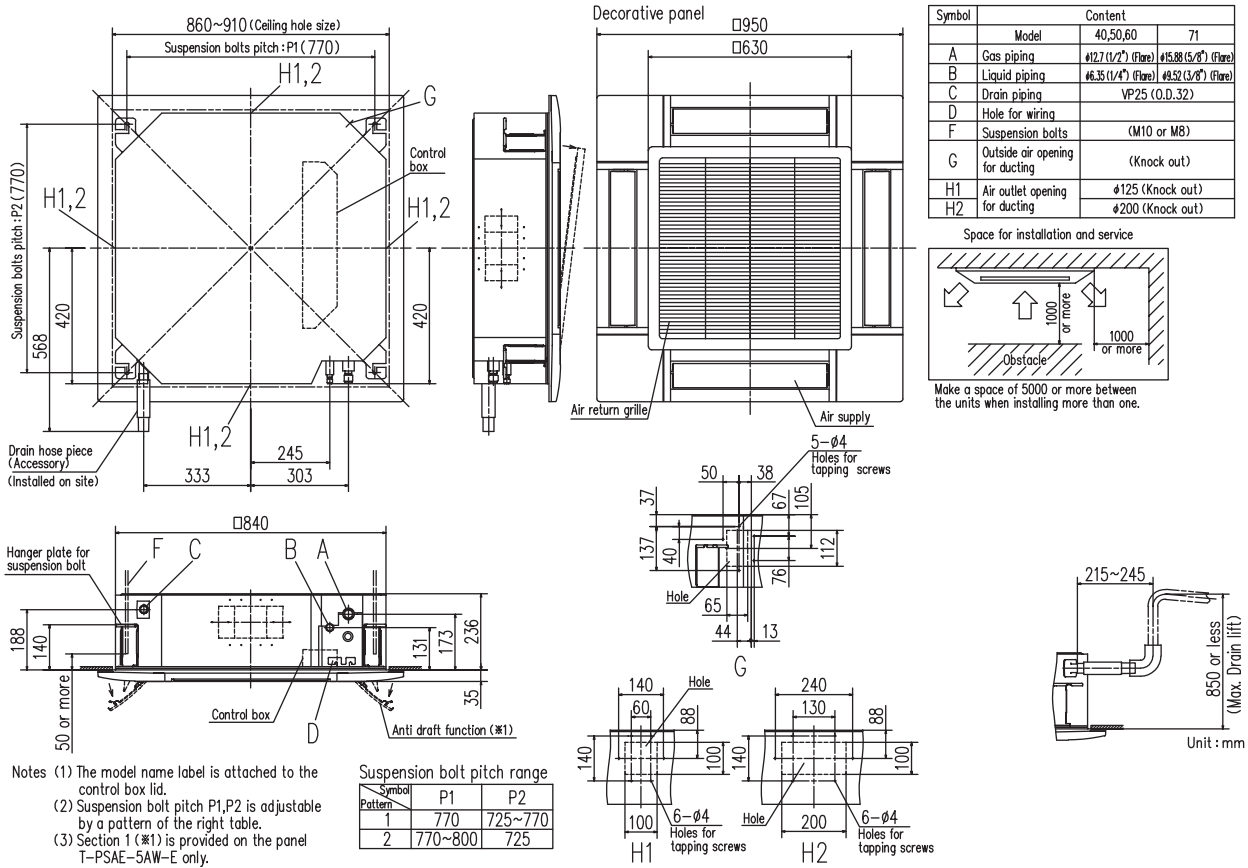
OUTDOOR UNIT

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

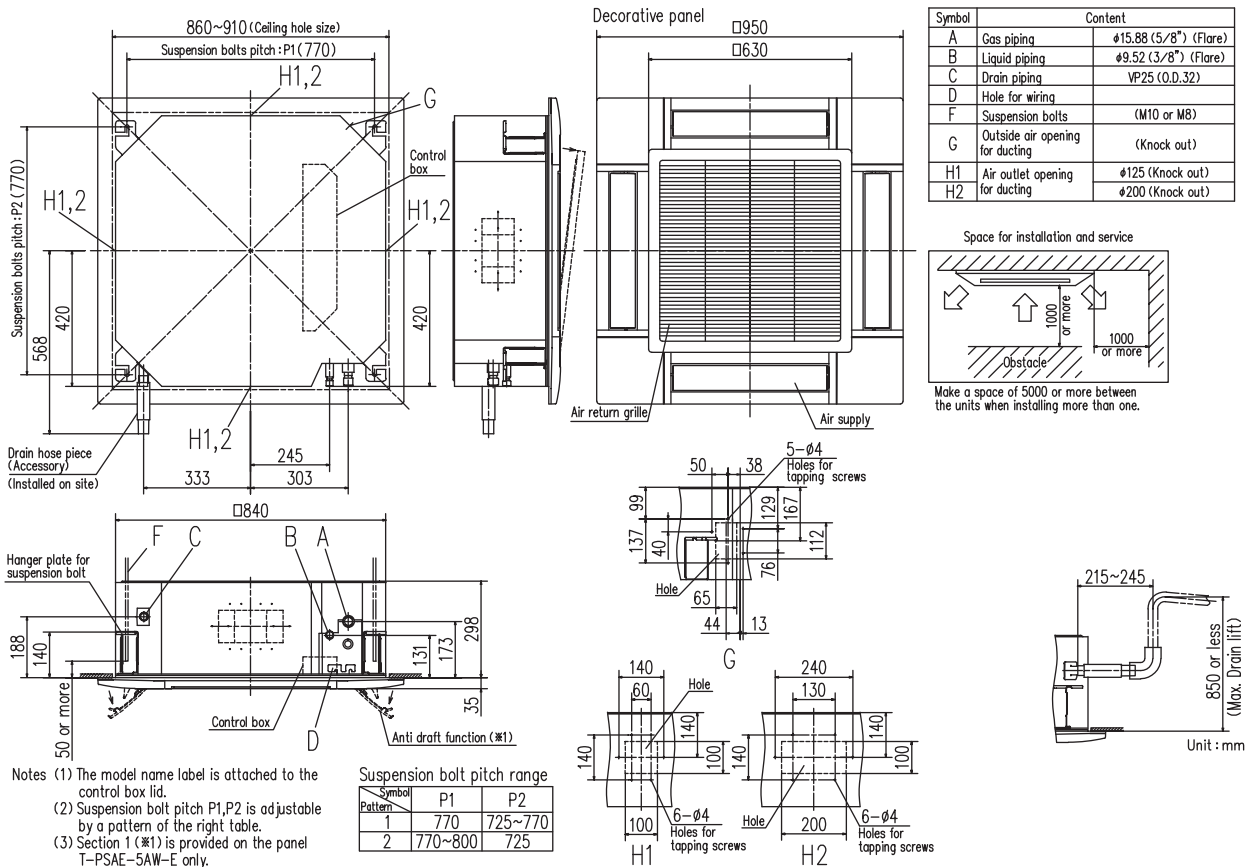
| FDC | Standard Inverter | | |
|-----------------------------|---|---|---|
| | 71VNP | 90VNP | 100VNP |
| model |  |  |  |
| Chargeless | 15m | | |
| Height x Width x Depth (mm) | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 845 x 970 x 370 |

DIMENSIONS (Unit:mm)

Models FDT40VG,50VG,60VG,71VG



Models FDT100VG,125VG,140VG



SPECIFICATIONS

| | | <i>HyperInverter</i> | | | |
|-------------------------------------|-----------------|---|---|-------------------|------------------------------|
| 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 |
| Max. current | | | 12 | 15 | 15 |
| Sound power level*1 | Indoor | Cooling/Heating | 53 / 53 | 54 / 54 | 60 / 60 |
| | Outdoor | | Cooling/Heating | 63 / 63 | 63 / 63 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | dB(A) 33 / 30 / 27 | | 35 / 34 / 29 |
| | | Heating (Hi/Me/Lo) | 33 / 30 / 27 | | 35 / 34 / 29 |
| | Outdoor | Cooling/Heating | 50 / 49 | | 51 / 48 |
| | | Cooling/Heating | 16 / 13 / 10 | | 18 / 15 / 12 |
| Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | m³/min 16 / 13 / 10 | | 18 / 15 / 12 |
| | Outdoor | Cooling/Heating | 36 / 33 | | 60 / 50 |
| Exterior dimensions | | Indoor | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 | | |
| | | Outdoor | 640 x 800(+71) x 290 | | |
| | | | 750 x 880(+88) x 340 | | |
| Net weight | | Indoor | kg 24(Unit:19 Standard Panel:5) | | 26(Unit:21 Standard Panel:5) |
| | | Outdoor | 45 | | 60 |
| Ref.piping size | | Liquid/Gas | ømm 6.35(1/4") / 12.7(1/2") | | 9.52(3/8") / 15.88(5/8") |
| Refrigerant line (one way) length | | | m Max.30 | | Max. 50 |
| Vertical height differences | | Outdoor is higher/lower | m Max.20 / Max.20 | | Max.30 / Max.15 |
| Outdoor operating temperature range | | Cooling | °C -15~-46*3 | | -15-43*3 |
| | | Heating | -20~-24 | | -20~-20 |
| Panel | | T-PSA-5AW-E, T-PSAE-5AW-E | | | |
| Air filter, Q'ty | | Pocket plastic net x 1(Washable) | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | |

| | | <i>HyperInverter</i> | | | | | |
|-------------------------------------|-----------------|---|---|---------------------|-------------------------------------|---------------------|---------------------|
| 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 |
| Max. current | | | 24 | 26 | 26 | 15 | 15 |
| Sound power level*1 | Indoor | Cooling/Heating | 63 / 63 | 64 / 64 | 64 / 64 | 63 / 63 | 64 / 64 |
| | Outdoor | | Cooling/Heating | 70 / 70 | 70 / 70 | 72 / 72 | 70 / 70 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | dB(A) 39 / 37 / 31 | | 41 / 39 / 32 | 42 / 39 / 33 | 39 / 37 / 31 |
| | | Heating (Hi/Me/Lo) | 39 / 37 / 31 | | 41 / 39 / 32 | 42 / 39 / 33 | 39 / 37 / 31 |
| | Outdoor | Cooling/Heating | 48 / 50 | | 48 / 50 | 49 / 52 | 48 / 50 |
| | | Cooling/Heating | 26 / 23 / 17 | | 28 / 25 / 18 | 29 / 26 / 19 | 26 / 23 / 17 |
| Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | m³/min 26 / 23 / 17 | | 28 / 25 / 18 | 29 / 26 / 19 | 26 / 23 / 17 |
| | Outdoor | Cooling/Heating | 100 / 100 | | 100 / 100 | 100 / 100 | 100 / 100 |
| Exterior dimensions | | Indoor | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950 | | | | |
| | | Outdoor | 1,300 x 970 x 370 | | | | |
| Net weight | | Indoor | kg 30(Unit:25 Standard Panel:5) | | | | |
| | | Outdoor | 105 | | | | |
| Ref.piping size | | Liquid/Gas | ømm 9.52(3/8") / 15.88(5/8") | | | | |
| Refrigerant line (one way) length | | | m Max.100 | | | | |
| Vertical height differences | | Outdoor is higher/lower | m Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | | Cooling | °C -15~-43*3 | | | | |
| | | Heating | -20~-20 | | | | |
| Panel | | T-PSA-5AW-E, T-PSAE-5AW-E | | | | | |
| Air filter, Q'ty | | Pocket plastic net x 1(Washable) | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | | | |

※1 Powerful-Hi can be selected.

Sound pressure level: 40ZSXVG 36dB(A), 50ZSXVG 38dB(A), 60ZSXVG 44dB(A), 71VNXVG 46dB(A), 100VN(S)XVG 48dB(A), 125/140VN(S)XVG 49dB(A)
Air flow: 40ZSXVG 19m³/min, 50ZSXVG 20m³/min, 60ZSXVG 26m³/min, 71VNXVG 28m³/min, 100VN(S)XVG 37m³/min, 125/140VN(S)XVG 38m³/min

NOTES:

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

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

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

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

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | Hyper Inverter | | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|---------------------|------------------------------|------------------------------|
| | | FDT71VNXPGV | FDT100VNXPGV | FDT125VNXPGV | FDT140VNXPGV | FDT140VNXTVG |
| | | Twin | | | | Triple |
| Indoor unit | | FDT40VG | FDT50VG | FDT60VG | FDT71VG | FDT50VG |
| Outdoor unit | | FDC71VNX | FDC100VNX | FDC125VNX | FDC140VNX | FDC140VNX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | |
| Nominal cooling capacity (Min~Max) | kW | 7.1 (3.2 ~ 8.0) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | 14.0 (5.0 ~ 16.0) |
| Nominal heating capacity (Min~Max) | kW | 8.0 (3.6 ~ 9.0) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 17.0) | 16.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 18.0) |
| Power consumption | Cooling/Heating | 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 | | 5 | 5 | 5 | 5 | 5 |
| Max. current | A | 17 | 24 | 26 | 26 | 26 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 53 / 53 | 54 / 54 | 60 / 60 | 62 / 62 |
| | Outdoor | Cooling/Heating | 66 / 66 | 70 / 70 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | 33 / 30 / 27 | 33 / 30 / 27 | 34 / 32 / 28 | 35 / 34 / 29 |
| | Outdoor | Heating (Hi/Me/Lo) | 33 / 30 / 27 | 33 / 30 / 27 | 34 / 32 / 28 | 35 / 34 / 29 |
| Air flow ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | 16 / 13 / 10 | 16 / 13 / 10 | 17 / 14 / 11 | 18 / 15 / 12 |
| | Outdoor | Heating (Hi/Me/Lo) | 16 / 13 / 10 | 16 / 13 / 10 | 17 / 14 / 11 | 18 / 15 / 12 |
| Exterior dimensions | Indoor | HeightxWidthxDpeth | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 | | | |
| | Outdoor | HeightxWidthxDpeth | 750 x 880(+88) x 340 | 1,300 x 970 x 370 | | |
| Net weight | Indoor | | 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 | °C | -20~20 | | | |
| Panel | | | T-PSA-5AW-E, T-PSAE-5AW-E | | | |
| Air filter, Q'ty | | | Pocket plastic net x 1(Washable) | | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | |

The values are for simultaneous Multi operation.

| Set model name | | Hyper Inverter | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|------------------------------|------------------------------|
| | | FDT100VSXPGV | FDT125VSXPGV | FDT140VSXPGV | FDT140VSXTVG |
| | | Twin | | | Triple |
| Indoor unit | | FDT50VG | FDT60VG | FDT71VG | FDT50VG |
| Outdoor unit | | FDC100VSX | FDC125VSX | FDC140VSX | FDC140VSX |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | |
| Nominal cooling capacity (Min~Max) | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | 14.0 (5.0 ~ 16.0) |
| Nominal heating capacity (Min~Max) | kW | 11.2 (4.0 ~ 16.0) | 14.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 20.0) | 16.0 (4.0 ~ 20.0) |
| Power consumption | Cooling/Heating | 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 | | 5 | 5 | 5 | 5 |
| Max. current | A | 15 | 15 | 15 | 15 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 54 / 54 | 60 / 60 | 62 / 62 |
| | Outdoor | Cooling/Heating | 70 / 70 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | 33 / 30 / 27 | 34 / 32 / 28 | 35 / 34 / 29 |
| | Outdoor | Heating (Hi/Me/Lo) | 33 / 30 / 27 | 34 / 32 / 28 | 35 / 34 / 29 |
| Air flow ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | 16 / 13 / 10 | 17 / 14 / 11 | 18 / 15 / 12 |
| | Outdoor | Heating (Hi/Me/Lo) | 16 / 13 / 10 | 17 / 14 / 11 | 18 / 15 / 12 |
| Exterior dimensions | Indoor | HeightxWidthxDpeth | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 | | |
| | Outdoor | HeightxWidthxDpeth | 1,300 x 970 x 370 | | |
| Net weight | Indoor | | 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 | °C | -20~20 | | |
| Panel | | | T-PSA-5AW-E, T-PSAE-5AW-E | | |
| Air filter, Q'ty | | | Pocket plastic net x 1(Washable) | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | |

※1 Powerful-Hi can be selected.

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

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

NOTES:

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

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

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

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

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

SPECIFICATIONS

| | | Micro Inverter | | | | | | | | |
|-------------------------------------|---------|---|-------------------|--------------------|-------------------------------------|---|-------------------|------------------------------|-----------------|--------------|
| Set model name | | FDT100VNVG | FDT125VNVG | FDT140VNVG | FDT100VSVG | FDT125VSVG | FDT140VSVG | | | |
| Indoor unit | | FDT100VG | FDT125VG | FDT140VG | FDT100VG | FDT125VG | FDT140VG | | | |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN | FDC100VS | FDC125VS | FDC140VS | | | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | | |
| Nominal cooling capacity (Min~Max) | | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | | |
| Nominal heating capacity (Min~Max) | | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | | |
| Power consumption | | Cooling/Heating kW | 2.76 / 2.74 | 4.05 / 3.77 | 4.98 / 4.57 | 2.76 / 2.74 | 4.05 / 3.77 | 4.98 / 4.57 | | |
| EER/COP | | | Cooling/Heating | 3.62 / 4.09 | 3.09 / 3.71 | 2.81 / 3.50 | 3.62 / 4.09 | 3.09 / 3.71 | 2.81 / 3.50 | |
| Inrush current | | A | | 5 | 5 | 5 | 5 | 5 | 5 | |
| Max. current | | | 24 | 24 | 24 | 15 | 15 | 15 | 15 | |
| Sound power level*1 | Indoor | Cooling/Heating | 63 / 63 | 64 / 64 | 64 / 64 | 63 / 63 | 64 / 64 | 64 / 64 | | |
| | Outdoor | | 70 / 70 | 72 / 72 | 73 / 73 | 70 / 70 | 72 / 72 | 73 / 73 | | |
| Sound pressure level*1 ※2 | Indoor | Cooling (Hi/Me/Lo) | dB(A) | 39 / 37 / 31 | 41 / 39 / 32 | 42 / 39 / 33 | 39 / 37 / 31 | 41 / 39 / 32 | 42 / 39 / 33 | |
| | | | | Heating (Hi/Me/Lo) | 39 / 37 / 31 | 41 / 39 / 32 | 42 / 39 / 33 | 39 / 37 / 31 | 41 / 39 / 32 | 42 / 39 / 33 |
| | Outdoor | Cooling/Heating | | 49 / 49 | 50 / 51 | 51 / 51 | 49 / 49 | 50 / 51 | 51 / 51 | |
| | | | | Cooling (Hi/Me/Lo) | 26 / 23 / 17 | 28 / 25 / 18 | 29 / 26 / 19 | 26 / 23 / 17 | 28 / 25 / 18 | 29 / 26 / 19 |
| Air flow ※2 | Indoor | Heating (Hi/Me/Lo) | m³/min | 26 / 23 / 17 | 28 / 25 / 18 | 29 / 26 / 19 | 26 / 23 / 17 | 28 / 25 / 18 | 29 / 26 / 19 | |
| | | | | Cooling/Heating | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 |
| Exterior dimensions | | Indoor Outdoor | | HeightxWidthxDepth | mm | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950 | | | 845 x 970 x 370 | |
| Net weight | | | | | | Indoor Outdoor | kg | 30(Unit:25 Standard Panel:5) | | |
| Ref.piping size | | Liquid/Gas | ømm | | 9.52(3/8") / 15.88(5/8") | | | | | |
| Refrigerant line (one way) length | | | | m | Max.50 | | | | | |
| Vertical height differences | | Outdoor is higher/lower | | | m | Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | | Cooling Heating | | | °C | -15~43*3 | | | | |
| | | | | | | -20~20 | | | | |
| Panel | | T-PSA-5AW-E, T-PSAE-5AW-E | | | | | | | | |
| Air filter, Q'ty | | Pocket plastic net x 1(Washable) | | | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | | | | | | |

The values are for simultaneous Multi operation.

| | | Micro Inverter | | | | | | | | |
|-------------------------------------|----------|---|-------------------|--------------------|--------------------------|---|--------------|------------------------------|-----------------|------------------------------|
| Set model name | | FDT100VNPVG | FDT125VNPVG | FDT140VNPVG | FDT140VNTVG | | | | | |
| | | Twin | | Triple | | | | | | |
| Indoor unit | | FDT50VG | FDT60VG | FDT71VG | FDT50VG | | | | | |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN | FDC140VN | | | | | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | | | | | |
| Nominal cooling capacity (Min~Max) | | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 14.0 (5.0 ~ 14.5) | | | | |
| Nominal heating capacity (Min~Max) | | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 16.0 (4.0 ~ 16.5) | | | | |
| Power consumption | | Cooling/Heating kW | 2.82 / 3.09 | 3.95 / 3.70 | 4.51 / 4.58 | 4.65 / 4.63 | | | | |
| EER/COP | | | Cooling/Heating | 3.55 / 3.62 | 3.16 / 3.78 | 3.10 / 3.49 | 3.01 / 3.46 | | | |
| Inrush current | | A | | 5 | 5 | 5 | 5 | | | |
| Max. current | | | 24 | 24 | 24 | 24 | 24 | | | |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 54 / 54 | 60 / 60 | 62 / 62 | 54 / 54 | | | | |
| | Outdoor | | 70 / 70 | 72 / 72 | 73 / 73 | 73 / 73 | | | | |
| Sound pressure level*1 ※2 | Indoor*2 | Cooling (Hi/Me/Lo) | dB(A) | 33 / 30 / 27 | 34 / 32 / 28 | 35 / 34 / 29 | 33 / 30 / 27 | | | |
| | | | | Heating (Hi/Me/Lo) | 33 / 30 / 27 | 34 / 32 / 28 | 35 / 34 / 29 | 33 / 30 / 27 | | |
| | Outdoor | Cooling/Heating | | 49 / 49 | 50 / 51 | 51 / 51 | 51 / 51 | | | |
| | | | | Cooling (Hi/Me/Lo) | 16 / 13 / 10 | 17 / 14 / 11 | 18 / 15 / 12 | 16 / 13 / 10 | | |
| Air flow ※2 | Indoor*2 | Heating (Hi/Me/Lo) | m³/min | 16 / 13 / 10 | 17 / 14 / 11 | 18 / 15 / 12 | 16 / 13 / 10 | | | |
| | | | | Cooling/Heating | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | | |
| Exterior dimensions | | Indoor Outdoor | | HeightxWidthxDepth | mm | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 | | | 845 x 970 x 370 | |
| Net weight | | | | | | Indoor Outdoor | kg | 24(Unit:19 Standard Panel:5) | | 26(Unit:21 Standard Panel:5) |
| Ref.piping size | | Liquid/Gas | ømm | | 9.52(3/8") / 15.88(5/8") | | | | | |
| Refrigerant line (one way) length | | | | m | Max.50 | | | | | |
| Vertical height differences | | Outdoor is higher/lower | | | m | Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | | Cooling Heating | | | °C | -15~43*3 | | | | |
| | | | | | | -20~20 | | | | |
| Panel | | T-PSA-5AW-E, T-PSAE-5AW-E | | | | | | | | |
| Air filter, Q'ty | | Pocket plastic net x 1(Washable) | | | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | | | | | | |

※2 Powerful-Hi can be selected.

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | FDT100VSPVG | | FDT125VSPVG | | FDT140VSPVG | | |
|-------------------------------------|---|-------------------------------------|------------------------------|---|------------------------------|---------------------|--------------|--|
| | | Twin | | Twin | | Twin | | |
| Indoor unit | | FDT50VG | | FDT60VG | | FDT71VG | | |
| Outdoor unit | | FDC100VS | | FDC125VS | | FDC140VS | | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | | | |
| Nominal cooling capacity (Min~Max) | | kW 10.0 (4.0 ~ 11.2) | | 12.5 (5.0 ~ 14.0) | | 14.0 (5.0 ~ 14.5) | | |
| Nominal heating capacity (Min~Max) | | kW 11.2 (4.0 ~ 12.5) | | 14.0 (4.0 ~ 16.0) | | 16.0 (4.0 ~ 16.5) | | |
| Power consumption | Cooling/Heating | kW 2.82 / 3.09 | | 3.95 / 3.70 | | 4.51 / 4.58 | | |
| EER/COP | Cooling/Heating | 3.55 / 3.62 | | 3.16 / 3.78 | | 3.10 / 3.49 | | |
| Inrush current | A | 5 | | 5 | | 5 | | |
| Max. current | | 15 | | 15 | | 15 | | |
| Sound power level*1 | Indoor*2 | Cooling/Heating | | 54 / 54 | | 60 / 60 | | |
| | Outdoor | Cooling/Heating | | 70 / 70 | | 72 / 72 | | |
| Sound pressure level*1 ※1 | Indoor*2 | dB(A) | Cooling (Hi/Me/Lo) | 33 / 30 / 27 | | 34 / 32 / 28 | | |
| | | | Heating (Hi/Me/Lo) | 33 / 30 / 27 | | 34 / 32 / 28 | | |
| | Outdoor | Cooling/Heating | 49 / 49 | | 50 / 51 | | 51 / 51 | |
| | | Cooling (Hi/Me/Lo) | 16 / 13 / 10 | | 17 / 14 / 11 | | 18 / 15 / 12 | |
| Air flow ※1 | Outdoor | m³/min | Heating (Hi/Me/Lo) | 16 / 13 / 10 | | 17 / 14 / 11 | | |
| | | | Cooling/Heating | 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 | | 83 | | | | | |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | | | | |
| Refrigerant line (one way) length | | m | Max.50 | | | | | |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 | | | | | |
| Outdoor operating temperature range | Cooling | °C | -15~43*3 | | | | | |
| | Heating | | -20~20 | | | | | |
| Panel | T-PSA-5AW-E, T-PSAE-5AW-E | | | | | | | |
| Air filter, Q'ty | Pocket plastic net x 1(Washable) | | | | | | | |
| Remote control (option) | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | | | | | |

The values are for simultaneous Multi operation.

| Set model name | | FDT200VSAPVG | | FDT250VSAPVG | | FDT140VSTVG | | |
|-------------------------------------|---|-------------------------------------|------------------------------|---|--------------------------|---------------------|------------------------------|--|
| | | Twin | | Twin | | Triple | | |
| Indoor unit | | FDT100VG | | FDT125VG | | FDT50VG | | |
| Outdoor unit | | FDC200VSA | | FDC250VSA | | FDC140VS | | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | | | |
| Nominal cooling capacity (Min~Max) | | kW 19.0 (5.2 ~ 22.4) | | 24.0 (6.9 ~ 28.0) | | 14.0 (5.0 ~ 14.5) | | |
| Nominal heating capacity (Min~Max) | | kW 22.4 (3.3 ~ 25.0) | | 27.0 (5.5 ~ 31.5) | | 16.0 (4.0 ~ 16.5) | | |
| Power consumption | Cooling/Heating | kW 6.25 / 6.02 | | 8.36 / 7.15 | | 4.65 / 4.63 | | |
| EER/COP | Cooling/Heating | 3.04 / 3.72 | | 2.87 / 3.78 | | 3.01 / 3.46 | | |
| Inrush current | A | 5 | | 5 | | 5 | | |
| Max. current | | 20 | | 21 | | 15 | | |
| Sound power level*1 | Indoor*2 | Cooling/Heating | | 63 / 63 | | 64 / 64 | | |
| | Outdoor | Cooling/Heating | | 72 / 74 | | 73 / 75 | | |
| Sound pressure level*1 ※1 | Indoor*2 | dB(A) | Cooling (Hi/Me/Lo) | 39 / 37 / 31 | | 41 / 39 / 32 | | |
| | | | Heating (Hi/Me/Lo) | 39 / 37 / 31 | | 41 / 39 / 32 | | |
| | Outdoor | Cooling/Heating | 58 / 59 | | 59 / 62 | | 51 / 51 | |
| | | Cooling (Hi/Me/Lo) | 26 / 23 / 17 | | 28 / 25 / 18 | | 16 / 13 / 10 | |
| Air flow ※1 | Outdoor | m³/min | Heating (Hi/Me/Lo) | 26 / 23 / 17 | | 28 / 25 / 18 | | |
| | | | Cooling/Heating | 135 / 135 | | 143 / 151 | | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm | Unit: 298 x 840 x 840 Panel: 35 x 950 x 950 | | | | |
| | Outdoor | | | 1,300 x 970 x 370 | | 1,505 x 970 x 370 | | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 845 x 970 x 370 |
| Net weight | Indoor | kg | 30(Unit:25 Standard Panel:5) | | | | 24(Unit:19 Standard Panel:5) | |
| | Outdoor | | 115 | | 143 | | 83 | |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 22.22(7/8") | | 12.7(1/2") / 22.22(7/8") | | 9.52(3/8") / 15.88(5/8") | |
| Refrigerant line (one way) length | | m | Max.70 | | | | | |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 | | | | | |
| Outdoor operating temperature range | Cooling | °C | -15~50*3 | | | | -15~43*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-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | | | | | |

※1 Powerful-Hi can be selected.

Sound pressure level: 100VSPVG 38dB(A), 125VSPVG 44dB(A), 140VSPVG 46dB(A), 140VNTVG 38dB(A), 200VSAPVG 48dB(A), 250VSAPVG 49dB(A), 140VSTVG 38dB(A)

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | FDT200VSATVG | | FDT200VSADVG | | FDT250VSADVG | | |
|-------------------------------------|----------|---|---------------------|---|---------------------|--------------------------------|---------------------|--|
| | | Triple | | Double Twin | | | | |
| Indoor unit | | FDT71VG | | FDT50VG | | FDT60VG | | |
| Outdoor unit | | FDC200VSA | | FDC200VSA | | FDC250VSA | | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | | | |
| Nominal cooling capacity (Min~Max) | | kW 19.0 (5.2 ~ 22.4) | | kW 19.0 (5.2 ~ 22.4) | | kW 24.0 (6.9 ~ 28.0) | | |
| Nominal heating capacity (Min~Max) | | kW 22.4 (3.3 ~ 25.0) | | kW 22.4 (3.3 ~ 25.0) | | kW 27.0 (5.5 ~ 31.5) | | |
| Power consumption | | Cooling/Heating kW 6.01 / 5.76 | | Cooling/Heating kW 6.26 / 6.15 | | Cooling/Heating kW 7.42 / 6.83 | | |
| EER/COP | | Cooling/Heating 3.16 / 3.89 | | Cooling/Heating 3.04 / 3.64 | | Cooling/Heating 3.23 / 3.95 | | |
| Inrush current | | A 5 | | A 5 | | A 5 | | |
| Max. current | | A 20 | | A 20 | | A 21 | | |
| Sound power level*1 | Indoor*2 | Cooling/Heating 62 / 62 | | Cooling/Heating 54 / 54 | | Cooling/Heating 60 / 60 | | |
| | Outdoor | Cooling/Heating 72 / 74 | | Cooling/Heating 72 / 74 | | Cooling/Heating 73 / 75 | | |
| Sound pressure level*1 **2 | Indoor*2 | Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo) | dB(A) 35 / 34 / 29 | | dB(A) 33 / 30 / 27 | | dB(A) 34 / 32 / 28 | |
| | | | 35 / 34 / 29 | | 33 / 30 / 27 | | 34 / 32 / 28 | |
| | Outdoor | Cooling/Heating 58 / 59 | | Cooling/Heating 58 / 59 | | Cooling/Heating 59 / 62 | | |
| Air flow **2 | Indoor*2 | Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo) | m³/min 18 / 15 / 12 | | m³/min 16 / 13 / 10 | | m³/min 17 / 14 / 11 | |
| | | | 18 / 15 / 12 | | 16 / 13 / 10 | | 17 / 14 / 11 | |
| | Outdoor | Cooling/Heating 135 / 135 | | Cooling/Heating 135 / 135 | | Cooling/Heating 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 | | | | |
| Net weight | | Indoor kg | | 26(Unit:21 Standard Panel:5) | | 24(Unit:19 Standard Panel:5) | | |
| | | Outdoor | | 115 | | | | |
| Ref.piping size | | Liquid/Gas ømm | | 9.52(3/8") / 22.22(7/8") | | | | |
| Refrigerant line (one way) length | | m | | Max.70 | | | | |
| Vertical height differences | | Outdoor is higher/lower m | | Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | | Cooling °C | | -15~50*3 | | | | |
| | | Heating °C | | -15~20 | | | | |
| Panel | | T-PSA-5AW-E, T-PSAE-5AW-E | | | | | | |
| Air filter, Q'ty | | Pocket plastic net x 1(Washable) | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | | | | |

| Set model name | | Standard Inverter | | | | | | |
|-------------------------------------|---------|---|---------------------|---|---------------------|--------------------------------|---------------------|--|
| | | FDT71VNPVG | | FDT90VNPVG | | FDT100VNP1VG | | |
| Indoor unit | | FDT71VG | | FDT100VG | | FDT100VG | | |
| Outdoor unit | | FDC71VNP | | FDC90VNP | | FDC100VNP | | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | | | |
| Nominal cooling capacity (Min~Max) | | kW 7.1 (1.4 ~ 7.1) | | kW 9.0 (1.9 ~ 9.0) | | kW 10.0 (2.8 ~ 11.2) | | |
| Nominal heating capacity (Min~Max) | | kW 7.1 (1.0 ~ 7.1) | | kW 9.0 (1.5 ~ 9.0) | | kW 11.2 (2.5 ~ 12.5) | | |
| Power consumption | | Cooling/Heating kW 2.50 / 1.90 | | Cooling/Heating kW 2.67 / 2.19 | | Cooling/Heating kW 2.76 / 2.84 | | |
| EER/COP | | Cooling/Heating 2.84 / 3.74 | | Cooling/Heating 3.37 / 4.11 | | Cooling/Heating 3.62 / 3.94 | | |
| Inrush current | | A 5 | | A 5 | | A 5 | | |
| Max. current | | A 14.5 | | A 18.0 | | A 21.0 | | |
| Sound power level*1 | Indoor | Cooling/Heating 62 / 62 | | Cooling/Heating 63 / 63 | | Cooling/Heating 63 / 63 | | |
| | Outdoor | Cooling/Heating 67 / 67 | | Cooling/Heating 69 / 69 | | Cooling/Heating 70 / 70 | | |
| Sound pressure level*1 **2 | Indoor | Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo) | dB(A) 35 / 34 / 29 | | dB(A) 39 / 37 / 31 | | dB(A) 39 / 37 / 31 | |
| | | | 35 / 34 / 29 | | 39 / 37 / 31 | | 39 / 37 / 31 | |
| | Outdoor | Cooling/Heating 54 / 54 | | Cooling/Heating 57 / 55 | | Cooling/Heating 57 / 61 | | |
| Air flow **2 | Indoor | Cooling (Hi/Me/Lo) Heating (Hi/Me/Lo) | m³/min 18 / 15 / 12 | | m³/min 26 / 23 / 17 | | m³/min 26 / 23 / 17 | |
| | | | 18 / 15 / 12 | | 26 / 23 / 17 | | 26 / 23 / 17 | |
| | Outdoor | Cooling/Heating 36 / 36 | | Cooling/Heating 63 / 49.5 | | Cooling/Heating 75 / 79 | | |
| Exterior dimensions | | Indoor HeightxWidthxDepth mm | | Unit: 236 x 840 x 840 Panel: 35 x 950 x 950 | | | | |
| | | Outdoor | | 640 x 800(+71) x 290 | | | | |
| Net weight | | Indoor kg | | 26(Unit:21 Standard Panel:5) | | 30(Unit:25 Standard Panel: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 °C | | -15~20 | | | | |
| Panel | | T-PSA-5AW-E, T-PSAE-5AW-E | | | | | | |
| Air filter, Q'ty | | Pocket Plastic net x1(Washable) | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-T-5AW-E2 | | | | | | |

**2 Powerful-Hi can be selected.

Sound pressure level : 200VSATVG 46dB(A), 200VSADVG 38dB(A), 250VSADVG 44dB(A), 71VNPVG 46dB(A), 90VNPVG 48dB(A), 100VNP1VG 48dB(A)
Air flow : 200VSATVG 28m³/min, 200VSADVG 20m³/min, 250VSADVG 26m³/min, 71VNPVG 28m³/min, 90VNPVG 37m³/min, 100VNP1VG 37m³/min

NOTES:

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

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

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

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

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

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

FDTC



Fits into standard 600 x 600 ceiling



FDTC 40/50/60

Remote control (Option)



RC-EX3

RC-E5

RCH-E3

RCN-TC-24W-E2

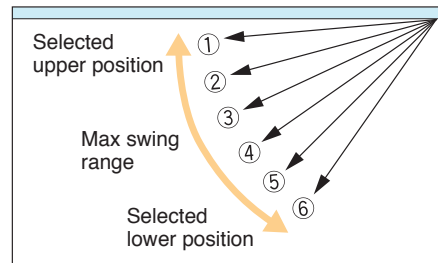
Point 1 Individual flap control system

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

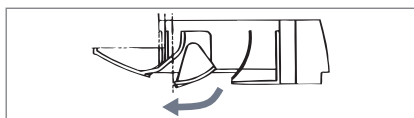
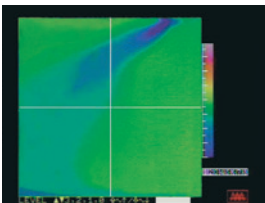


*The wireless remote control is not applicable to the Individual flap control system.

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



Point 2 "CLEARER" Air Flow



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

Point 3 Installation Workability



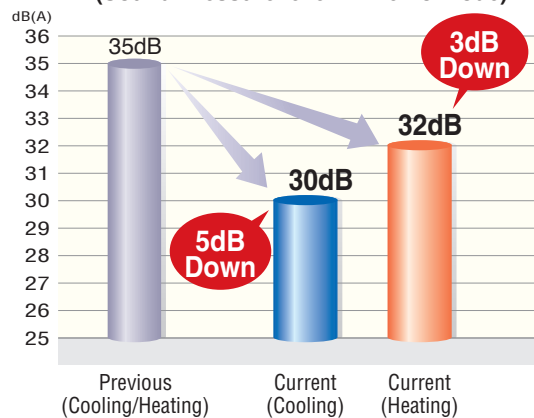
For wireless control simply insert the infrared receiver kit on a corner of the panel



wireless remote control RCN-TC-24W-E2

Point 4 Quiet operation

(Sound Pressure level in the Lo mode)



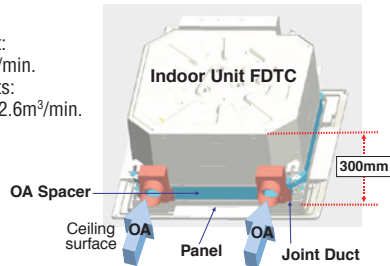
Point 5

Taking OA (Outside Air) into inside

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

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

Using 1 joint duct:
 OA up to 1.3m³/min.
 Using 2 joint ducts:
 OA from 1.3 to 2.6m³/min.

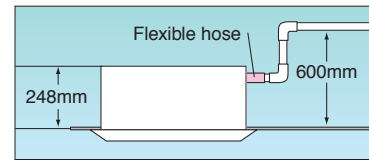


Point 6

600mm Drain Pump

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

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



Point 7

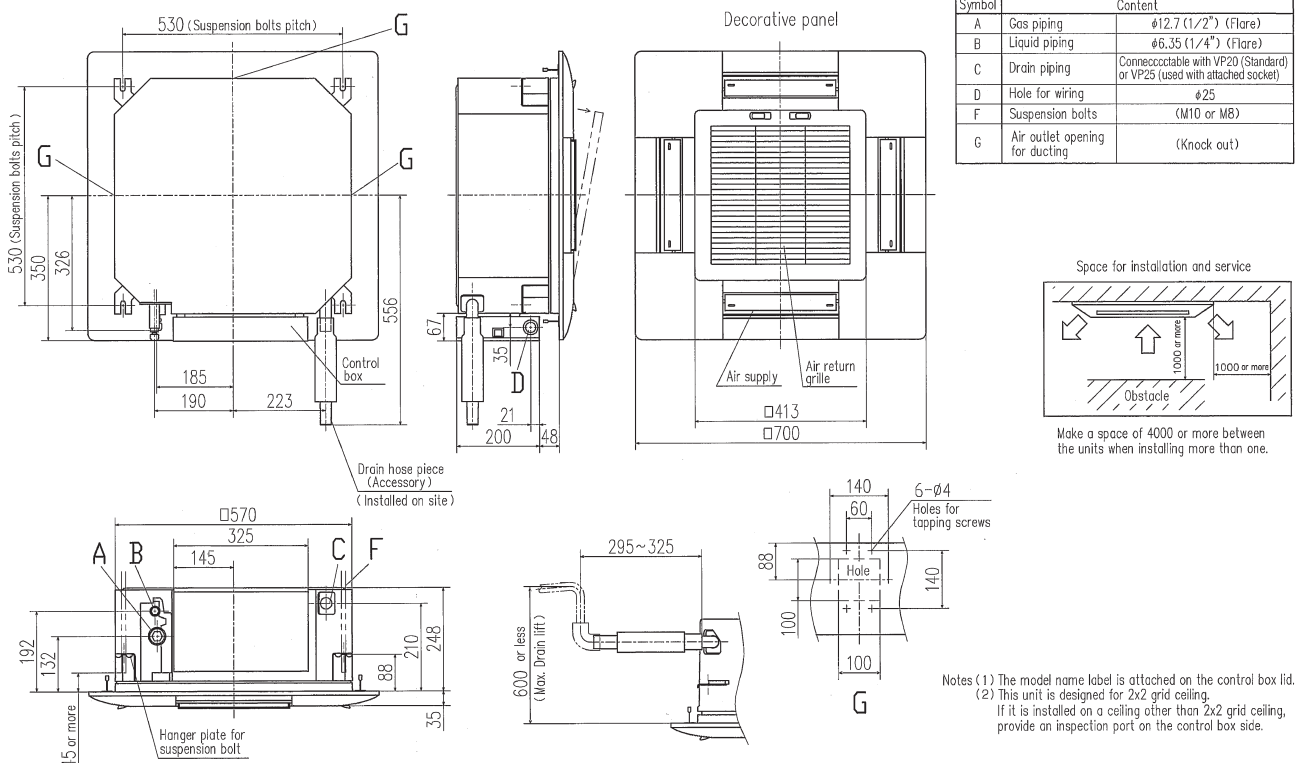
Arrangement of installation balance of indoor unit

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

OUTDOOR UNIT

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

DIMENSIONS (Unit:mm)



SPECIFICATIONS

| | | Hyper Inverter | | |
|-------------------------------------|-------------------------|-------------------------------------|--|-------------------|
| Set model name | | FDTC40ZSXVF | FDTC50ZSXVF | FDTC60ZSXVF |
| Indoor unit | | FDTC40VF | FDTC50VF | FDTC60VF |
| Outdoor unit | | SRC40ZSX-S | SRC50ZSX-S | SRC60ZSX-S |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | |
| Nominal cooling capacity (Min~Max) | kW | 4.0 (1.1 ~ 4.7) | 5.0 (1.1 ~ 5.6) | 5.6 (1.1 ~ 6.3) |
| Nominal heating capacity (Min~Max) | kW | 4.5 (0.6 ~ 5.4) | 5.4 (0.6 ~ 6.3) | 6.7 (0.6 ~ 6.7) |
| Power consumption | Cooling/Heating kW | 1.04 / 1.10 | 1.56 / 1.45 | 1.99 / 2.07 |
| EER/COP | Cooling/Heating | 3.85 / 4.09 | 3.21 / 3.72 | 2.81 / 3.24 |
| Inrush current | A | 5 | 5 | 5 |
| Max. current | | 12 | 15 | 15 |
| Sound power level*1 | Indoor | Cooling/Heating | 60 / 60 | 60 / 60 |
| | Outdoor | Cooling/Heating | 63 / 63 | 65 / 64 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | 42 / 36 / 30 | 42 / 36 / 30 |
| | | Heating (Hi/Me/Lo) | 42 / 36 / 32 | 46 / 39 / 32 |
| | Outdoor | Cooling/Heating | 50 / 49 | 50 / 49 |
| | | Cooling/Heating | 11.5 / 9 / 7 | 11.5 / 9 / 7 |
| Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | 11.5 / 9 / 7 | 13.5 / 10 / 7 |
| | | Heating (Hi/Me/Lo) | 11.5 / 9 / 8 | 13.5 / 10 / 8 |
| | Outdoor | Cooling/Heating | 36 / 33 | 41.5 / 39 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | Unit: 248 x 570 x 570 Panel: 35 x 700 x 700 | |
| | Outdoor | | 640 x 800(+71) x 290 | |
| Net weight | Indoor | | 18.5(Unit:15 Panel:3.5) | |
| | Outdoor | | 45 | |
| Ref.piping size | Liquid/Gas | ømm | 6.35(1/4") / 12.7(1/2") | |
| Refrigerant line (one way) length | | m | Max.30 | |
| Vertical height differences | Outdoor is higher/lower | m | Max.20 / Max.20 | |
| Outdoor operating temperature range | Cooling | °C | -15~-46*3 | |
| | Heating | | -20~-24 | |
| Panel | | | TC-PSA-25W-E | |
| Air filter, Q'ty | | | Pocket plastic net x 1(Washable) | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2 | |

The values are for simultaneous Multi operation.

| | | Hyper Inverter | | | | | | |
|-------------------------------------|-------------------------|-------------------------------------|--|---------------------|---------------------|-------------------------------------|---------------------|---------------------|
| Set model name | | FDTC71VNXPFV | FDTC100VNXPFV | FDTC125VNXPFV | FDTC140VNXTVF | FDTC100VXSXPFV | FDTC125VXSXPFV | FDTC140VXSXTVF |
| | | Twin | | | Triple | Twin | | Triple |
| Indoor unit | | FDTC40VF | FDTC50VF | FDTC60VF | FDTC50VF | FDTC50VF | FDTC60VF | FDTC50VF |
| Outdoor unit | | FDC71VNX | FDC100VNX | FDC125VNX | FDC140VNX | FDC100VSX | FDC125VSX | FDC140VSX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | |
| Nominal cooling capacity (Min~Max) | kW | 7.1 (3.2 ~ 8.0) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) |
| Nominal heating capacity (Min~Max) | kW | 8.0 (3.6 ~ 9.0) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 17.0) | 16.0 (4.0 ~ 18.0) | 11.2 (4.0 ~ 16.0) | 14.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 20.0) |
| Power consumption | Cooling/Heating kW | 2.04 / 2.21 | 3.18 / 3.20 | 4.10 / 4.10 | 4.34 / 4.34 | 3.18 / 3.20 | 4.10 / 4.10 | 4.34 / 4.34 |
| EER/COP | Cooling/Heating | 3.48 / 3.62 | 3.14 / 3.50 | 3.05 / 3.41 | 3.23 / 3.69 | 3.14 / 3.50 | 3.05 / 3.41 | 3.23 / 3.69 |
| Inrush current | A | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Max. current | | 17 | 24 | 26 | 26 | 15 | 15 | 15 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 60 / 60 | 60 / 60 | 60 / 60 | 60 / 60 | 60 / 60 |
| | Outdoor | Cooling/Heating | 66 / 66 | 70 / 70 | 70 / 70 | 72 / 72 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | 42 / 36 / 30 | 42 / 36 / 30 | 46 / 39 / 30 | 42 / 36 / 30 | 42 / 36 / 30 | 46 / 39 / 30 |
| | | Heating (Hi/Me/Lo) | 42 / 36 / 32 | 42 / 36 / 32 | 46 / 39 / 32 | 42 / 36 / 32 | 42 / 36 / 32 | 46 / 39 / 32 |
| | Outdoor | Cooling/Heating | 51 / 48 | 48 / 50 | 48 / 50 | 49 / 52 | 48 / 50 | 48 / 50 |
| | | Cooling/Heating | 11.5 / 9 / 7 | 11.5 / 9 / 7 | 13.5 / 10 / 7 | 11.5 / 9 / 7 | 11.5 / 9 / 7 | 13.5 / 10 / 7 |
| Air flow ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | 11.5 / 9 / 7 | 11.5 / 9 / 7 | 13.5 / 10 / 7 | 11.5 / 9 / 7 | 11.5 / 9 / 7 | 13.5 / 10 / 7 |
| | | Heating (Hi/Me/Lo) | 11.5 / 9 / 8 | 11.5 / 9 / 8 | 13.5 / 10 / 8 | 11.5 / 9 / 8 | 11.5 / 9 / 8 | 13.5 / 10 / 8 |
| | Outdoor | Cooling/Heating | 60 / 50 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | Unit: 248 x 570 x 570 Panel: 35 x 700 x 700 | | | | | |
| | Outdoor | | 750 x 880(+88) x 340 1,300 x 970 x 370 | | | | | |
| Net weight | Indoor | | 18.5(Unit:15 Panel:3.5) | | | | | |
| | Outdoor | | 60 105 | | | | | |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | | | | |
| Refrigerant line (one way) length | | m | Max.50 Max.100 | | | | | |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 | | | | | |
| Outdoor operating temperature range | Cooling | °C | -15~-43*3 | | | | | |
| | Heating | | -20~-20 | | | | | |
| Panel | | | TC-PSA-25W-E | | | | | |
| Air filter, Q'ty | | | Pocket plastic net x 1(Washable) | | | | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2 | | | | | |

※1 Powerful-Hi can be selected.

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

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

NOTES:

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

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

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

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

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | Micro Inverter | | |
|-------------------------------------|-------------------------|-------------------------------------|--|-------------------|
| | | FDTC100VNPVF | FDTC125VNPVF | FDTC140VNTVF |
| | | Twin | | Triple |
| Indoor unit | | FDTC50VF | FDTC60VF | FDTC50VF |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | |
| Nominal cooling capacity (Min~Max) | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) |
| Nominal heating capacity (Min~Max) | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) |
| Power consumption | Cooling/Heating kW | 3.25 / 3.26 | 5.35 / 4.62 | 4.64 / 4.52 |
| EER/COP | Cooling/Heating | 3.08 / 3.44 | 2.34 / 3.03 | 3.02 / 3.54 |
| Inrush current | | 5 | 5 | 5 |
| Max. current | | 24 | 24 | 24 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 60 / 60 |
| | Outdoor | Cooling/Heating | 70 / 70 | 73 / 73 |
| Sound pressure level*1 **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 42 / 36 / 30 | 42 / 36 / 30 |
| | Outdoor | Cooling/Heating | 49 / 49 | 51 / 51 |
| Air flow **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 11.5 / 9 / 7 | 11.5 / 9 / 7 |
| | Outdoor | Cooling/Heating | 75 / 73 | 75 / 73 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | Unit: 248 x 570 x 570 Panel: 35 x 700 x 700 | |
| | Outdoor | | 845 x 970 x 370 | |
| Net weight | Indoor | | 18.5(Unit:15 Panel:3.5) | |
| | Outdoor | | 81 | |
| Ref.piping size | Liquid/Gas | | 9.52(3/8") / 15.88(5/8") | |
| Refrigerant line (one way) length | | | Max.50 | |
| Vertical height differences | Outdoor is higher/lower | | Max.30 / Max.15 | |
| Outdoor operating temperature range | Cooling | | -15~43*3 | |
| | Heating | | -20~20 | |
| Panel | | | TC-PSA-25W-E | |
| Air filter, Q'ty | | | Pocket plastic net x 1(Washable) | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2 | |

The values are for simultaneous Multi operation.

| Set model name | | Micro Inverter | | | | | |
|-------------------------------------|-------------------------|-------------------------------------|--|-------------------|--------------------------|-------------------|---------------|
| | | FDTC100VSPVF | FDC125VSPVF | FDC140VSTVF | FDC200VSADVF | FDC250VSADVF | |
| | | Twin | | Triple | Double Twin | | |
| Indoor unit | | FDTC50VF | FDTC60VF | FDTC50VF | FDTC50VF | FDTC60VF | |
| Outdoor unit | | FDC100VS | FDC125VS | FDC140VS | FDC200VSA | FDC250VSA | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | | |
| Nominal cooling capacity (Min~Max) | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 19.0 (5.2 ~ 22.4) | 24.0 (6.9 ~ 28.0) | |
| Nominal heating capacity (Min~Max) | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 22.4 (3.3 ~ 25.0) | 27.0 (5.5 ~ 31.5) | |
| Power consumption | Cooling/Heating kW | 3.25 / 3.26 | 5.35 / 4.62 | 4.64 / 4.52 | 6.95 / 6.98 | 11.10 / 9.66 | |
| EER/COP | Cooling/Heating | 3.08 / 3.44 | 2.34 / 3.03 | 3.02 / 3.54 | 2.73 / 3.21 | 2.16 / 2.80 | |
| Inrush current | | 5 | 5 | 5 | 5 | 5 | |
| Max. current | | 15 | 15 | 15 | 20 | 21 | |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 60 / 60 | 60 / 60 | 60 / 60 | |
| | Outdoor | Cooling/Heating | 70 / 70 | 72 / 72 | 73 / 73 | 72 / 74 | 75 / 75 |
| Sound pressure level*1 **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 42 / 36 / 30 | 46 / 39 / 30 | 42 / 36 / 30 | 42 / 36 / 30 | 46 / 39 / 30 |
| | Outdoor | Cooling/Heating | 49 / 49 | 50 / 51 | 51 / 51 | 58 / 59 | 61 / 62 |
| Air flow **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 11.5 / 9 / 7 | 13.5 / 10 / 7 | 11.5 / 9 / 7 | 11.5 / 9 / 7 | 13.5 / 10 / 7 |
| | Outdoor | Cooling/Heating | 75 / 73 | 75 / 73 | 75 / 73 | 135 / 135 | 143 / 151 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | Unit: 248 x 570 x 570 Panel: 35 x 700 x 700 | | | | |
| | Outdoor | | 845 x 970 x 370 | | 1,300 x 970 x 370 | | |
| Net weight | Indoor | | 18.5(Unit:15 Panel:3.5) | | | | |
| | Outdoor | | 83 | | 115 | | |
| Ref.piping size | Liquid/Gas | | 9.52(3/8") / 15.88(5/8") | | 9.52(3/8") / 22.22(7/8") | | |
| Refrigerant line (one way) length | | | Max.50 | | Max.70 | | |
| Vertical height differences | Outdoor is higher/lower | | Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | Cooling | | -15~43*3 | | | -15~50*3 | |
| | Heating | | -20~20 | | | -15~20 | |
| Panel | | | TC-PSA-25W-E | | | | |
| Air filter, Q'ty | | | Pocket plastic net x 1(Washable) | | | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-TC-24W-E2 | | | | |

**2 Powerful-Hi can be selected.

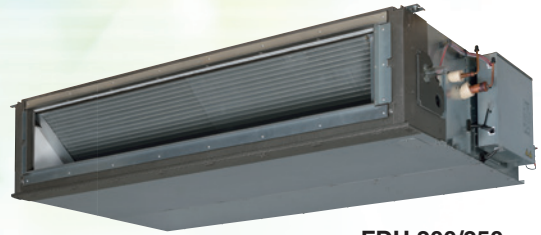
Sound pressure level: 100/125VN(S)PVF 47dB(A), 140VN(S)TVF 47dB(A), 200/250VSADVF 47dB(A)

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

DUCT CONNECTED -High Static pressure- FDU



FDU 71/100/125/140



FDU 200/250
Tropical Usage Mode

Remote control (Option)



RC-EX3

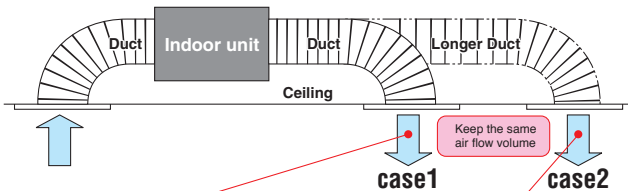
RC-E5

RCH-E3

RCN-KIT4-E2

Point 1

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



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

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

<Expansion of external static pressure range>

Previous 10~130Pa → Current 10~200Pa

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

E.S.P. button

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



RC-E5

Point 2

More quiet noise

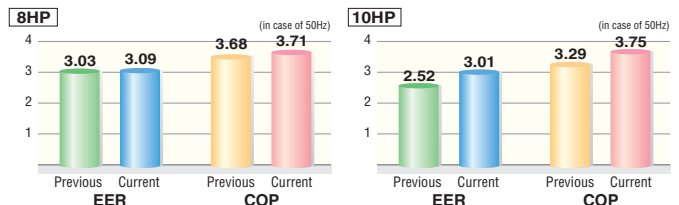
Thanks to use of DC fan motor, fan steps increase from two to four and quiet operation is achieved.(FDU200/250)

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

Point 3

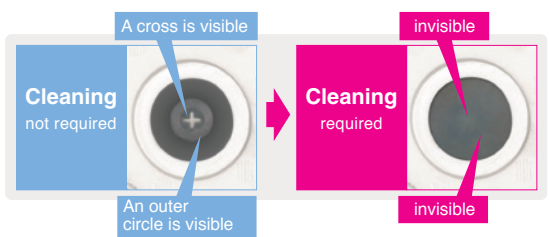
High efficiency

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



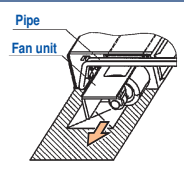
Point 4 Transparent inspection window

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



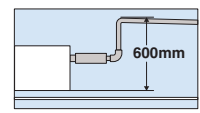
Point 5 Improvement of the serviceability

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



Point 6 Enhanced installation workability

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



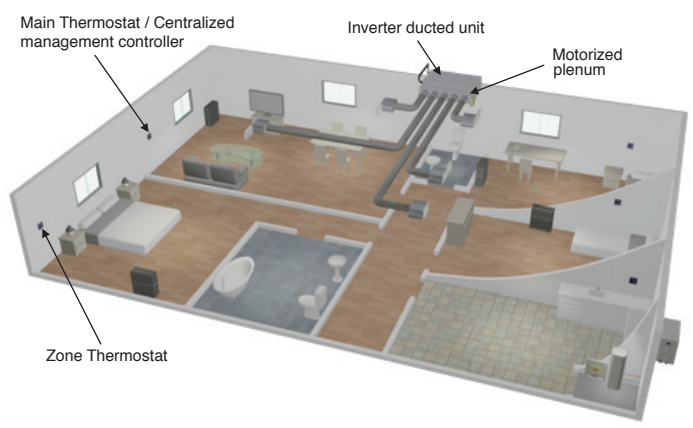
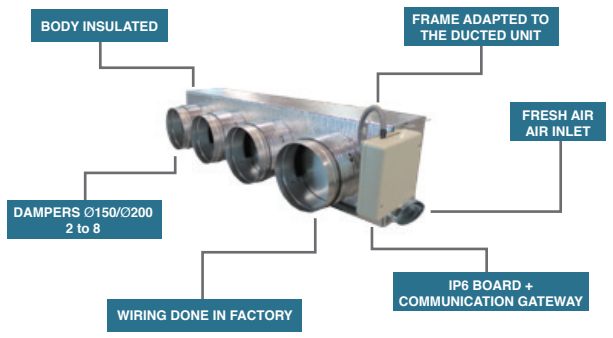
Round duct adapter



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

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

Main components



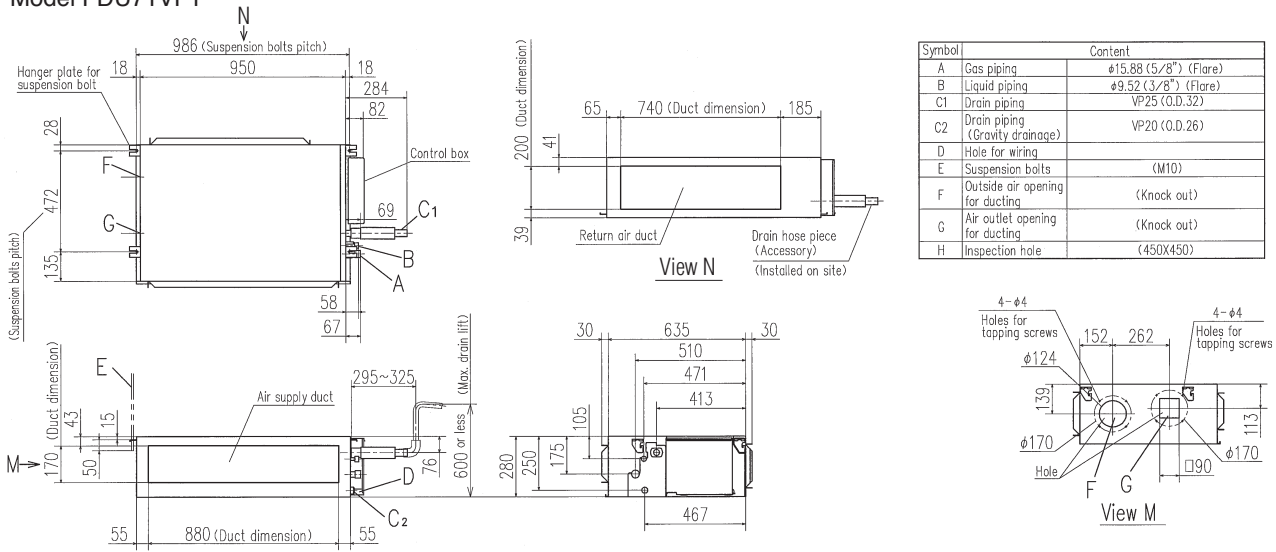
OUTDOOR UNIT

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

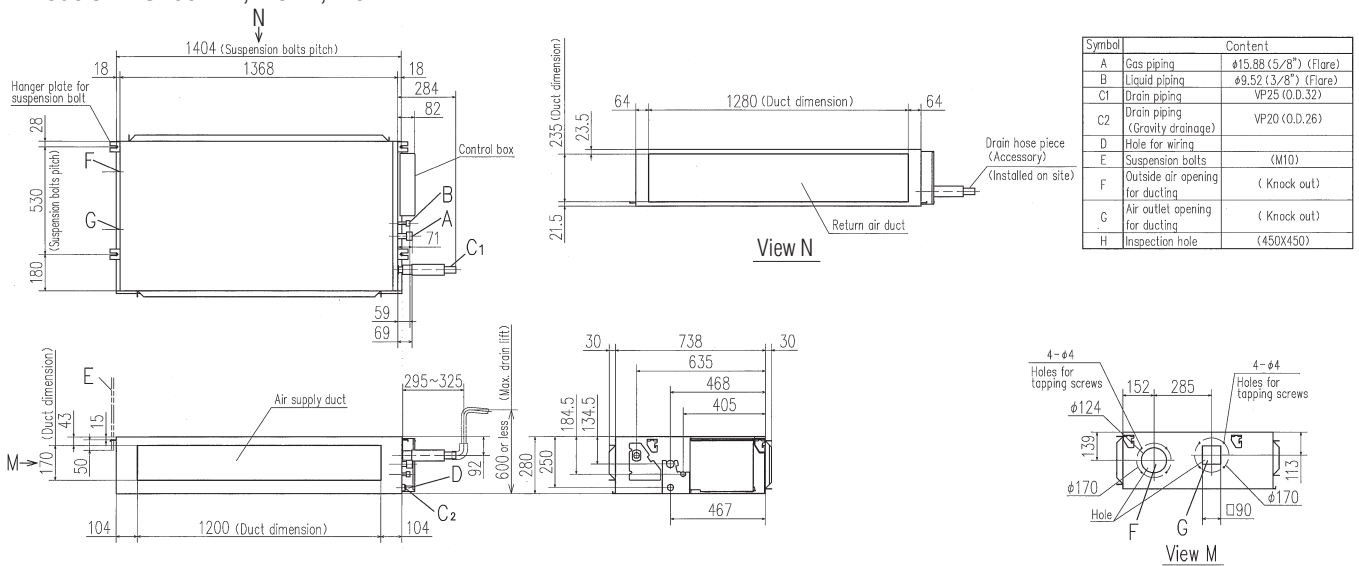
| FDC | Standard Inverter | | |
|-----------------------------|----------------------|----------------------|-----------------|
| | 71VNP | 90VNP | 100VNP |
| model | | | |
| Chargeless | 15m | | |
| Height x Width x Depth (mm) | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 845 x 970 x 370 |

DIMENSIONS (Unit:mm)

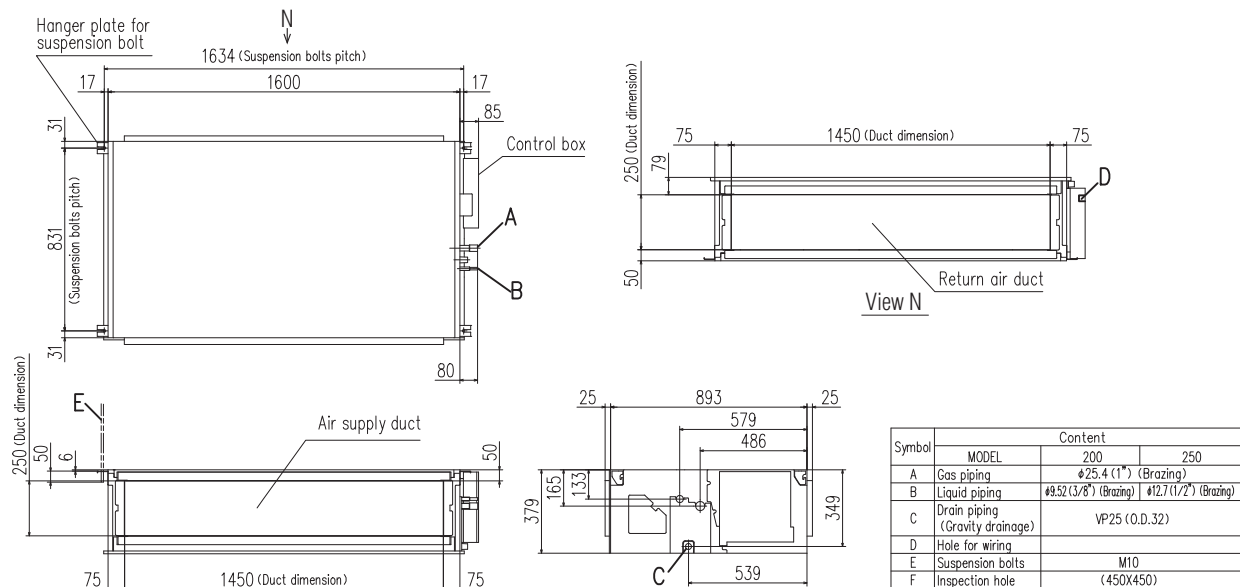
Model FDU71VF1



Models FDU100VF2, 125VF, 140VF



Models FDU200VG, 250VG



SPECIFICATIONS

| | | <i>HyperInverter</i> | | | |
|-------------------------------------|-----------------|-------------------------------------|--|-------------------|-------------------|
| Set model name | | FDU71VN(X)VF1 | FDU100VN(X)VF2 | FDU125VN(X)VF | FDU140VN(X)VF |
| Indoor unit | | FDU71VF1 | FDU100VF2 | FDU125VF | FDU140VF |
| Outdoor unit | | FDC71VNX | FDC100VNX | FDC125VNX | FDC140VNX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | |
| Nominal cooling capacity (Min~Max) | | kW 7.1 (3.2 ~ 8.0) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) |
| Nominal heating capacity (Min~Max) | | kW 8.0 (3.6 ~ 9.0) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 17.0) | 16.0 (4.0 ~ 18.0) |
| Power consumption | Cooling/Heating | kW 2.05 / 2.01 | 2.68 / 3.02 | 3.49 / 3.77 | 4.28 / 4.42 |
| EER/COP | Cooling/Heating | 3.46 / 3.98 | 3.73 / 3.71 | 3.58 / 3.71 | 3.27 / 3.62 |
| Inrush current | | A 5 | 5 | 5 | 5 |
| Max. current | | 17 | 25 | 29 | 30 |
| Sound power level*1 | Indoor | Cooling/Heating | 65 / 65 | 67 / 67 | 70 / 70 |
| | Outdoor | Cooling/Heating | 66 / 66 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | 33 / 29 / 25 | 38 / 36 / 30 | 40 / 34 / 29 |
| | | Heating (Hi/Me/Lo) | 33 / 29 / 25 | 38 / 36 / 30 | 40 / 34 / 29 |
| | Outdoor | Cooling/Heating | 51 / 48 | 48 / 50 | 48 / 50 |
| | | Cooling/Heating | 51 / 48 | 48 / 50 | 48 / 50 |
| Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | m ³ /min 19 / 15 / 10 | 28 / 25 / 19 | 32 / 26 / 20 |
| | | Heating (Hi/Me/Lo) | 19 / 15 / 10 | 28 / 25 / 19 | 32 / 26 / 20 |
| | Outdoor | Cooling/Heating | 60 / 50 | 100 / 100 | 100 / 100 |
| | | Cooling/Heating | 60 / 50 | 100 / 100 | 100 / 100 |
| External static pressure*2 | | Pa Standard:35 Max:200 | Standard:60 Max:200 | | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm 280 x 950 x 635 | | |
| | Outdoor | HeightxWidthxDepth | 750 x 880(+88) x 340 | | |
| Net weight | Indoor | | kg 34 | | |
| | Outdoor | | 105 | | |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | |
| Refrigerant line (one way) length | | m | Max.50 | Max.100 | |
| Vertical height differences | | Outdoor is higher/lower | m Max.30 / Max.15 | | |
| Outdoor operating temperature range | Cooling | °C | -15~43*3 | | |
| | Heating | | -20~20 | | |
| Air filter | | | Procure locally | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | |

| | | <i>HyperInverter</i> | | | |
|-------------------------------------|-----------------|-------------------------------------|--|-------------------|--------------|
| Set model name | | FDU100VS(X)VF2 | FDU125VS(X)VF | FDU140VS(X)VF | |
| Indoor unit | | FDU100VF2 | FDU125VF | FDU140VF | |
| Outdoor unit | | FDC100VSX | FDC125VSX | FDC140VSX | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | |
| Nominal cooling capacity (Min~Max) | | kW 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | |
| Nominal heating capacity (Min~Max) | | kW 11.2 (4.0 ~ 16.0) | 14.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 20.0) | |
| Power consumption | Cooling/Heating | kW 2.68 / 3.02 | 3.49 / 3.77 | 4.28 / 4.42 | |
| EER/COP | Cooling/Heating | 3.73 / 3.71 | 3.58 / 3.71 | 3.27 / 3.62 | |
| Inrush current | | A 5 | 5 | 5 | |
| Max. current | | 16 | 18 | 19 | |
| Sound power level*1 | Indoor | Cooling/Heating | 65 / 65 | 67 / 67 | 70 / 70 |
| | Outdoor | Cooling/Heating | 70 / 70 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | 38 / 36 / 30 | 40 / 34 / 29 | 40 / 35 / 30 |
| | | Heating (Hi/Me/Lo) | 38 / 36 / 30 | 40 / 34 / 29 | 40 / 35 / 30 |
| | Outdoor | Cooling/Heating | 48 / 50 | 48 / 50 | 49 / 52 |
| | | Cooling/Heating | 48 / 50 | 48 / 50 | 49 / 52 |
| Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | m ³ /min 28 / 25 / 19 | 32 / 26 / 20 | 35 / 28 / 22 |
| | | Heating (Hi/Me/Lo) | 28 / 25 / 19 | 32 / 26 / 20 | 35 / 28 / 22 |
| | Outdoor | Cooling/Heating | 100 / 100 | 100 / 100 | 100 / 100 |
| | | 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 | HeightxWidthxDepth | 1,300 x 970 x 370 | | |
| Net weight | Indoor | | kg 54 | | |
| | Outdoor | | 105 | | |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | |
| Refrigerant line (one way) length | | m | Max.100 | | |
| Vertical height differences | | Outdoor is higher/lower | m Max.30 / Max.15 | | |
| Outdoor operating temperature range | Cooling | °C | -15~43*3 | | |
| | Heating | | -20~20 | | |
| Air filter | | | Procure locally | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | |

*1 Powerful-Hi can be selected.

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

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

NOTES:

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

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

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

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

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

SPECIFICATIONS

| | | Micro Inverter | | | | | | | | |
|-------------------------------------|--------------|--|--------------------|---------------------|-------------------------------------|-------------------|-------------------|-------------------|--------------|--------------|
| Set model name | | FDU100VNVF2 | FDU125VNVF | FDU140VNVF | FDU100VSVF2 | FDU125VSVF | FDU140VSVF | | | |
| Indoor unit | | FDU100VF2 | FDU125VF | FDU140VF | FDU100VF2 | FDU125VF | FDU140VF | | | |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN | FDC100VS | FDC125VS | FDC140VS | | | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | | |
| Nominal cooling capacity (Min~Max) | | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | | |
| Nominal heating capacity (Min~Max) | | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | | |
| Power consumption | | Cooling/Heating | kW | | 2.80 / 3.02 | 3.90 / 3.88 | 4.95 / 4.69 | 2.80 / 3.02 | 3.90 / 3.88 | 4.95 / 4.69 |
| EER/COP | | | Cooling/Heating | | 3.57 / 3.71 | 3.21 / 3.61 | 2.83 / 3.41 | 3.57 / 3.71 | 3.21 / 3.61 | 2.83 / 3.41 |
| Inrush current | | A | 5 | | 5 | 5 | 5 | 5 | 5 | |
| Max. current | | | 25 | | 27 | 28 | 16 | 18 | 19 | |
| Sound power level*1 | Indoor | Cooling/Heating | 65 / 65 | | 67 / 67 | 70 / 70 | 65 / 65 | 67 / 67 | 70 / 70 | |
| | Outdoor | | 70 / 70 | | 72 / 72 | 73 / 73 | 70 / 70 | 72 / 72 | 73 / 73 | |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | dB(A) | | 38 / 36 / 30 | 40 / 34 / 29 | 40 / 35 / 30 | 38 / 36 / 30 | 40 / 34 / 29 | 40 / 35 / 30 |
| | | | Heating (Hi/Me/Lo) | 38 / 36 / 30 | | 40 / 34 / 29 | 40 / 35 / 30 | 38 / 36 / 30 | 40 / 34 / 29 | 40 / 35 / 30 |
| | Outdoor | Cooling/Heating | | 49 / 49 | | 50 / 51 | 51 / 51 | 49 / 49 | 50 / 51 | 51 / 51 |
| | | | Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | m³/min | | 28 / 25 / 19 | 32 / 26 / 20 | 35 / 28 / 22 |
| Heating (Hi/Me/Lo) | 28 / 25 / 19 | | | | | 32 / 26 / 20 | 35 / 28 / 22 | 28 / 25 / 19 | 32 / 26 / 20 | 35 / 28 / 22 |
| | Outdoor | Cooling/Heating | 75 / 73 | | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | |
| External static pressure*2 | | | Pa | Standard:60 Max:200 | | | | | | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm | | 280 x 1,370 x 740 | | | 845 x 970 x 370 | | |
| | Outdoor | | 845 x 970 x 370 | | | | | | | |
| Net weight | Indoor | | kg | | 54 | | | 83 | | |
| | Outdoor | | 81 | | 83 | | | | | |
| Ref.piping size | | Liquid/Gas | ømm | | 9.52(3/8") / 15.88(5/8") | | | | | |
| Refrigerant line (one way) length | | m | | Max.50 | | | | | | |
| Vertical height differences | | Outdoor is higher/lower | m | | Max.30 / Max.15 | | | | | |
| Outdoor operating temperature range | Cooling | °C | | -15~43*3 | | | | | | |
| | Heating | -20~20 | | | | | | | | |
| Air filter | | Procure locally | | | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | | | | | | |

| | | Micro Inverter | | Standard Inverter | | | | | | | | | | |
|-------------------------------------|--------------|--|--------------------|-------------------------------------|--|---------------------|-----------------------|-----------------|-------------------------|----------------------|--------------------------|-----------------|--------------------------|--|
| Set model name | | FDU200VSAVG | FDU250VSAVG | FDU71VNPVF1 | FDU90VNPVF2 | FDU100VNP1VF2 | | | | | | | | |
| Indoor unit | | FDU200VG | FDU250VG | FDU71VF1 | FDU100VF2 | FDU100VF2 | | | | | | | | |
| Outdoor unit | | FDC200VSA | FDC250VSA | FDC71VNP | FDC90VNP | FDC100VNP | | | | | | | | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | | | | | | | |
| Nominal cooling capacity (Min~Max) | | kW | 19.0 (5.2 ~ 22.4) | 24.0 (6.9 ~ 28.0) | 7.1 (1.4 ~ 7.1) | 9.0 (1.9 ~ 9.0) | 10.0 (2.8 ~ 11.2) | | | | | | | |
| Nominal heating capacity (Min~Max) | | kW | 22.4 (3.3 ~ 25.0) | 27.0 (5.5 ~ 31.5) | 7.1 (1.0 ~ 7.1) | 9.0 (1.5 ~ 9.0) | 11.2 (2.5 ~ 12.5) | | | | | | | |
| Power consumption | | Cooling/Heating | kW | | 6.15 / 6.03 | 7.98 / 7.20 | 2.63 / 1.96 | 2.65 / 2.25 | 3.00 / 2.93 | | | | | |
| EER/COP | | | Cooling/Heating | | 3.09 / 3.71 | 3.01 / 3.75 | 2.70 / 3.62 | 3.40 / 4.00 | 3.33 / 3.82 | | | | | |
| Inrush current | | A | 5 | | 5 | 5 | 5 | 5 | | | | | | |
| Max. current | | | 25 | | 27 | 14.5 | 18.0 | 22.0 | | | | | | |
| Sound power level*1 | Indoor | Cooling/Heating | 75 / 75 | | 75 / 75 | 65 / 65 | 65 / 65 | 65 / 65 | | | | | | |
| | Outdoor | | 72 / 74 | | 73 / 75 | 67 / 67 | 69 / 69 | 70 / 70 | | | | | | |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | dB(A) | | 50 / 47 / 45 | 50 / 47 / 45 | 33 / 29 / 25 | 38 / 36 / 30 | 38 / 36 / 30 | | | | | |
| | | | Heating (Hi/Me/Lo) | 50 / 47 / 45 | | 50 / 47 / 45 | 33 / 29 / 25 | 38 / 36 / 30 | 38 / 36 / 30 | | | | | |
| | Outdoor | Cooling/Heating | | 57 / 59 | | 59 / 62 | 54 / 54 | 57 / 55 | 57 / 61 | | | | | |
| | | | Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | m³/min | | 72 / 64 / 56 | 72 / 64 / 56 | 19 / 15 / 10 | 28 / 25 / 19 | 28 / 25 / 19 | | |
| Heating (Hi/Me/Lo) | 72 / 64 / 56 | | | | | 72 / 64 / 56 | 19 / 15 / 10 | 28 / 25 / 19 | 28 / 25 / 19 | | | | | |
| | Outdoor | Cooling/Heating | 135 / 135 | | 143 / 151 | 36 / 36 | 63 / 49.5 | 75 / 79 | | | | | | |
| External static pressure*2 | | | Pa | Standard:72 Max:200 | | Standard:35 Max:200 | Standard:60 Max:200 | | | | | | | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm | | 379 x 1,600 x 893 | | | 280 x 950 x 635 | | | 280 x 1,370 x 740 | | | |
| | Outdoor | | 1,300 x 970 x 370 | | 1,505 x 970 x 370 | | 640 x 800(+71) x 290 | | | 750 x 880(+88) x 340 | | 845 x 970 x 370 | | |
| Net weight | Indoor | | kg | | 89 | | | 34 | | | 54 | | | |
| | Outdoor | | 115 | | 143 | | 45 | | | 57 | | 70 | | |
| Ref.piping size | | Liquid/Gas | ømm | | 9.52(3/8") / 22.22(7/8") | | 12.7(1/2") / 25.4(1") | | 6.35(1/4") / 12.7(1/2") | | 6.35(1/4") / 15.88(5/8") | | 9.52(3/8") / 15.88(5/8") | |
| Refrigerant line (one way) length | | m | | Max.70 | | | | | | | | | | |
| 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 | | | | | | | | | | |
| | Heating | -15~20 | | | | | | | | | | | | |
| Air filter | | Procure locally | | | | | | | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | | | | | | | |

※1 Powerful-Hi can be selected.

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

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

NOTES:

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

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

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

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

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

DUCT CONNECTED -Low/Middle Static pressure-

FDUM



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

Remote control (Option)

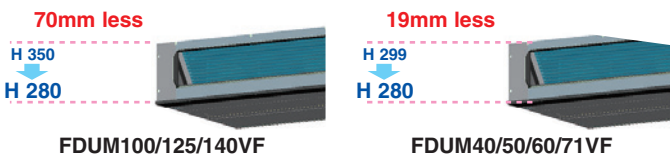


Filter kit (option)

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

Point 1 Thin design

The height of all FDUM models is only 280mm.



Point 2 Automatic external static pressure (E.S.P.) control

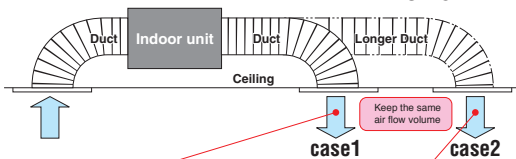
You can set External Static Pressure (E.S.P.) by method of manual setting on remote control. Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting. You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of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

E.S.P. button

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



RC-E5



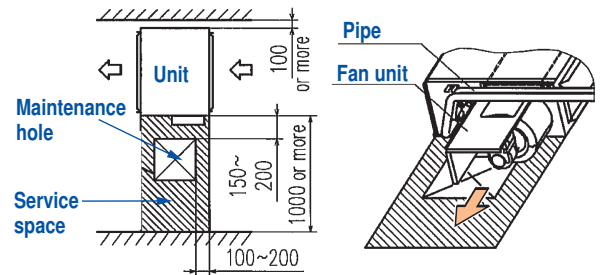
| Setting No. | No.8 | No.9 | No.10 | No.11 | No.12 | No.13 | No.14 | No.15 |
|-------------|------|------|-------|-------|-------|-------|-------|-------|
| E.S.P. | 80Pa | 90Pa | 100Pa | 110Pa | 120Pa | 130Pa | 140Pa | 150Pa |

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

<Expansion of external static pressure range>
 Previous 10-130Pa → Current 10-200Pa

Point 3 Improvement of the serviceability

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

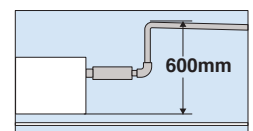


Point 4 Transparent inspection window

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

Point 5 Enhanced installation workability

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



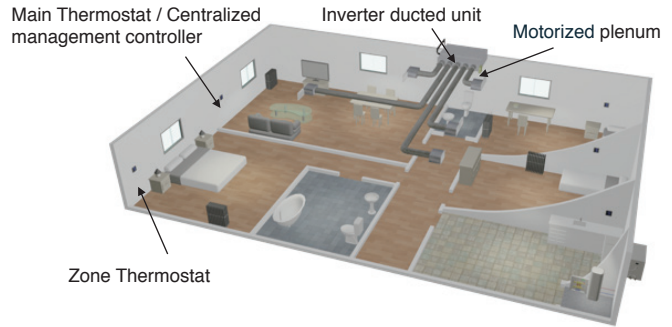
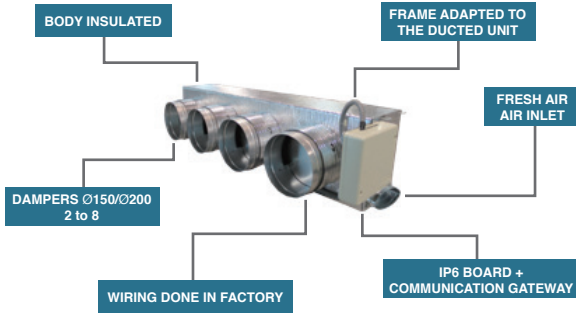
Round duct adapter

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












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

Main components



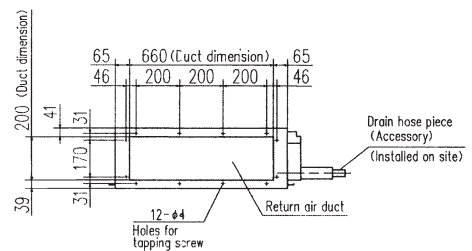
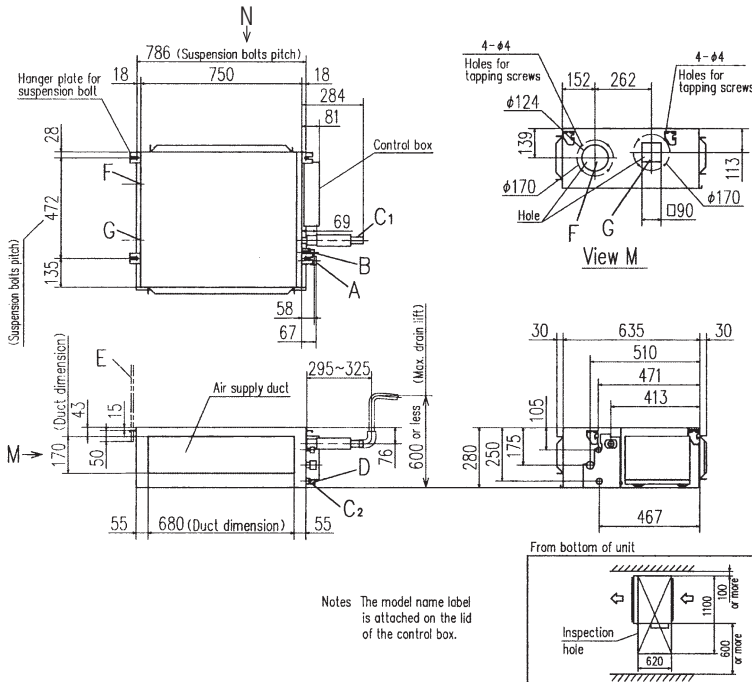
OUTDOOR UNIT

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

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

DIMENSIONS (Unit:mm)

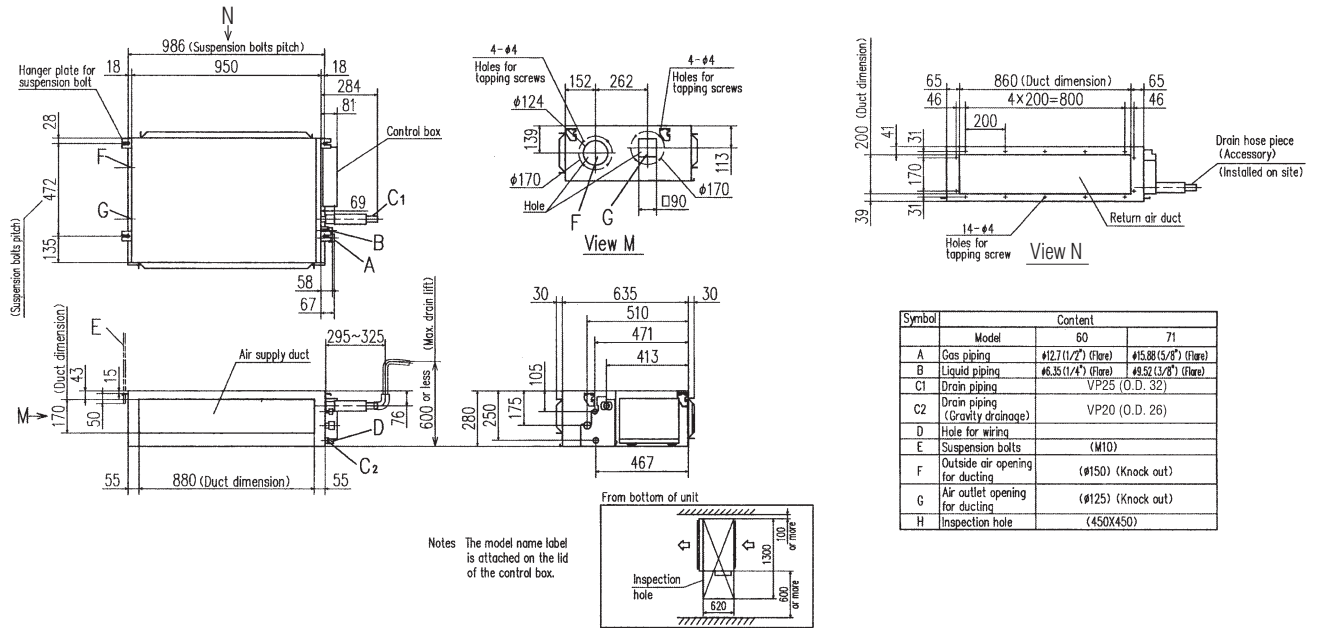
Models FDUM40VF, FDUM50VF



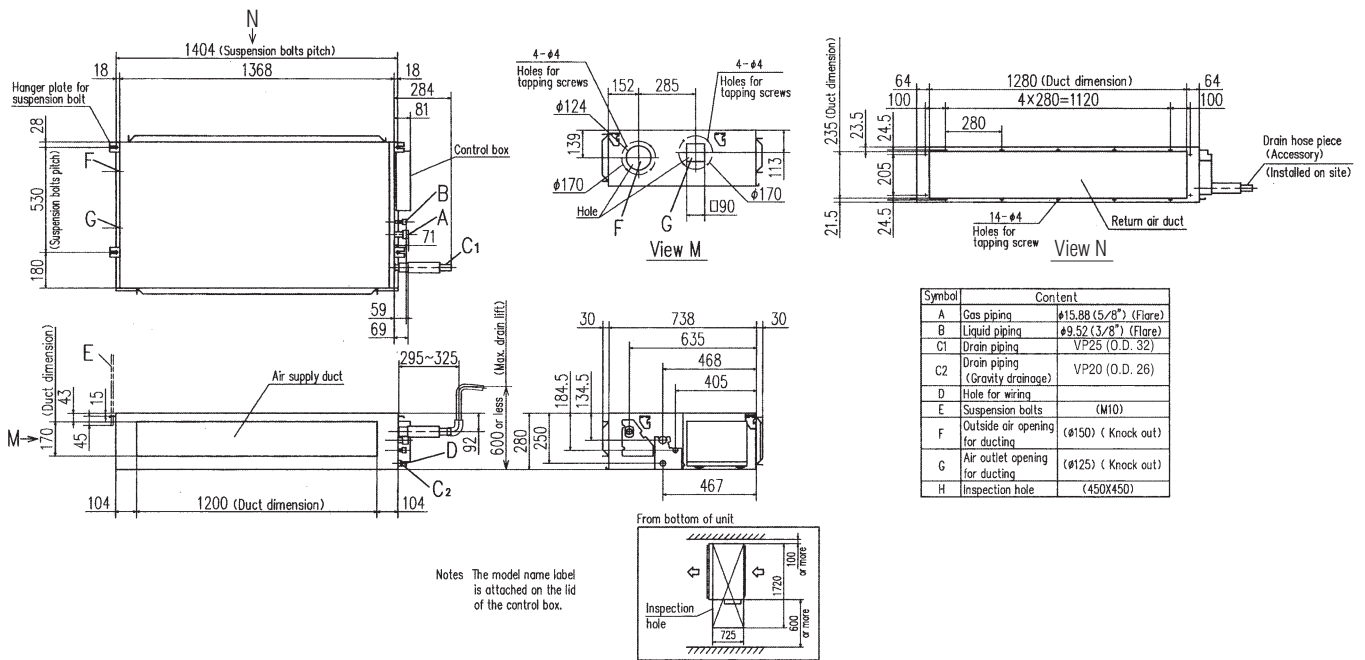
| Symbol | Content | |
|--------|---------------------------------|----------------------|
| A | Gas piping | ø12.7 (1/2") (Flare) |
| B | Liquid piping | ø6.35 (1/4") (Flare) |
| C1 | Drain piping | VP25 (O.D. 32) |
| C2 | Drain piping (Gravity drainage) | VP20 (O.D. 26) |
| D | Hole for wiring | |
| E | Suspension bolts | (M10) |
| F | Outside air opening for ducting | (ø150) (Knock out) |
| G | Air outlet opening for ducting | (ø125) (Knock out) |
| H | Inspection hole | (450X450) |

DIMENSIONS (Unit:mm)

Models FDUM60VF,71VF1



Models FDUM100VF2,125VF,140VF



SPECIFICATIONS

| | | HyperInverter | | | | |
|-------------------------------------|-------------------------|-------------------------------------|--|-----------------|--------------------------|---------------------|
| Set model name | | FDUM40ZSXVF | FDUM50ZSXVF | FDUM60ZSXVF | FDUM71VNXVF1 | FDUM100VNXVF2 |
| Indoor unit | | FDUM40VF | FDUM50VF | FDUM60VF | FDUM71VF1 | FDUM100VF2 |
| Outdoor unit | | SRC40ZSX-S | SRC50ZSX-S | SRC60ZSX-S | FDC71VNX | FDC100VNX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | |
| Nominal cooling capacity (Min~Max) | | kW 4.0 (1.1 ~ 4.7) | 5.0 (1.1 ~ 5.6) | 5.6 (1.1 ~ 6.3) | 7.1 (3.2 ~ 8.0) | 10.0 (4.0 ~ 11.2) |
| Nominal heating capacity (Min~Max) | | kW 4.5 (0.6 ~ 5.4) | 5.4 (0.6 ~ 6.3) | 6.7 (0.6 ~ 7.1) | 8.0 (3.6 ~ 9.0) | 11.2 (4.0 ~ 12.5) |
| Power consumption | Cooling/Heating | kW 0.952 / 1.07 | 1.38 / 1.45 | 1.54 / 1.75 | 2.03 / 1.99 | 2.68 / 3.02 |
| EER/COP | Cooling/Heating | 4.20 / 4.21 | 3.62 / 3.72 | 3.64 / 3.83 | 3.50 / 4.02 | 3.73 / 3.71 |
| Inrush current | | A 5 | 5 | 5 | 5 | 5 |
| Max. current | | 12 | 15 | 15 | 17 | 24 |
| Sound power level*1 | Indoor | Cooling/Heating | 60 / 60 | 60 / 60 | 65 / 65 | 65 / 65 |
| | Outdoor | Cooling/Heating | 63 / 63 | 63 / 63 | 65 / 64 | 70 / 70 |
| Sound pressure level*1 **1 | Indoor | Cooling (Hi/Me/Lo) | 32 / 29 / 26 | 32 / 29 / 26 | 31 / 28 / 25 | 33 / 29 / 25 |
| | | Heating (Hi/Me/Lo) | 32 / 29 / 26 | 32 / 29 / 26 | 31 / 28 / 25 | 33 / 29 / 25 |
| | Outdoor | Cooling/Heating | 50 / 49 | 50 / 49 | 52 / 52 | 51 / 48 |
| | | Cooling/Heating | 10 / 9 / 8 | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 |
| Air flow **1 | Indoor | Cooling (Hi/Me/Lo) | 10 / 9 / 8 | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 |
| | | Heating (Hi/Me/Lo) | 10 / 9 / 8 | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 |
| | Outdoor | Cooling/Heating | 36 / 33 | 40 / 33 | 41.5 / 39 | 60 / 50 |
| External static pressure*3 | | Pa Standard:35 Max:100 | | | | Standard:60 Max:100 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm 280 x 750 x 635 | | 280 x 950 x 635 | |
| | Outdoor | HeightxWidthxDepth | 640 x 800(+71) x 290 | | 750 x 880(+88) x 340 | |
| Net weight | Indoor | | kg 29 | | 34 | |
| | 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 Max.100 | |
| Vertical height differences | Outdoor is higher/lower | m | Max.20 / Max.20 | | Max.30 / Max.15 | |
| Outdoor operating temperature range | Cooling | °C | -15~46*4 | | -15~43*4 | |
| | Heating | | -20~24 | | -20~20 | |
| Air filter | | | Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option) | | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | |

| | | HyperInverter | | | | |
|-------------------------------------|-------------------------|-------------------------------------|--|-------------------|-------------------------------------|-------------------|
| Set model name | | FDUM125VNXVF | FDUM140VNXVF | FDUM100VNXVF2 | 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 | 67 / 67 | 70 / 70 | 65 / 65 | 67 / 67 |
| | Outdoor | Cooling/Heating | 70 / 70 | 72 / 72 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 **1 | Indoor | Cooling (Hi/Me/Lo) | 40 / 34 / 29 | 40 / 35 / 30 | 38 / 36 / 30 | 40 / 34 / 29 |
| | | Heating (Hi/Me/Lo) | 40 / 34 / 29 | 40 / 35 / 30 | 38 / 36 / 30 | 40 / 34 / 29 |
| | Outdoor | Cooling/Heating | 48 / 50 | 49 / 52 | 48 / 50 | 48 / 50 |
| | | Cooling/Heating | 32 / 26 / 20 | 35 / 28 / 22 | 28 / 25 / 19 | 32 / 26 / 20 |
| Air flow **1 | Indoor | Cooling (Hi/Me/Lo) | 32 / 26 / 20 | 35 / 28 / 22 | 28 / 25 / 19 | 32 / 26 / 20 |
| | | Heating (Hi/Me/Lo) | 32 / 26 / 20 | 35 / 28 / 22 | 28 / 25 / 19 | 32 / 26 / 20 |
| | Outdoor | Cooling/Heating | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| External static pressure*3 | | Pa Standard:60 Max:100 | | | | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm 280 x 1,370 x 740 | | | |
| | Outdoor | HeightxWidthxDepth | 1,300 x 970 x 370 | | | |
| Net weight | Indoor | | kg 54 | | | |
| | Outdoor | | 105 | | | |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | | |
| Refrigerant line (one way) length | | m | Max.100 | | | |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 | | | |
| Outdoor operating temperature range | Cooling | °C | -15~43*4 | | | |
| | Heating | | -20~20 | | | |
| Air filter | | | Filter kit : UM-FL3EF (option) | | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | |

**1 Powerful-Hi can be selected.

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

NOTES:

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | Hyper Inverter | | | | |
|-------------------------------------|-------------------------|--|----------------------|---------------------|---------------------|---------------------|
| | | FDUM71VNXPVF | FDUM100VNXPVF | FDUM125VNXPVF | FDUM140VNXPVF1 | FDUM140VNXXTVF |
| | | Twin | | | Triple | |
| Indoor unit | | FDUM40VF | FDUM50VF | FDUM60VF | FDUM71VF1 | FDUM50VF |
| Outdoor unit | | FDC71VNX | FDC100VNX | FDC125VNX | FDC140VNX | FDC140VNX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | |
| Nominal cooling capacity (Min-Max) | kW | 7.1 (3.2 ~ 8.0) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | 14.0 (5.0 ~ 16.0) |
| Nominal heating capacity (Min-Max) | kW | 8.0 (3.6 ~ 9.0) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 17.0) | 16.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 18.0) |
| Power consumption | Cooling/Heating kW | 2.01 / 1.91 | 2.66 / 3.02 | 3.26 / 3.66 | 4.36 / 4.35 | 4.21 / 4.69 |
| EER/COP | Cooling/Heating | 3.53 / 4.19 | 3.76 / 3.71 | 3.83 / 3.83 | 3.21 / 3.68 | 3.33 / 3.41 |
| Inrush current | A | 5 | 5 | 5 | 5 | 5 |
| Max. current | | 17 | 24 | 26 | 26 | 26 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 60 / 60 | 60 / 60 | 65 / 65 |
| | Outdoor | Cooling/Heating | 66 / 66 | 70 / 70 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 *2 | Indoor*2 | Cooling (Hi/Me/Lo) | 39 / 29 / 26 | 32 / 29 / 26 | 31 / 28 / 25 | 33 / 29 / 25 |
| | | Heating (Hi/Me/Lo) | 39 / 29 / 26 | 32 / 29 / 26 | 31 / 28 / 25 | 33 / 29 / 25 |
| | Outdoor | Cooling/Heating | 51 / 48 | 48 / 50 | 48 / 50 | 49 / 52 |
| | | Cooling/Heating | 10 / 9 / 8 | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 |
| Air flow *2 | Indoor*2 | Cooling (Hi/Me/Lo) | 10 / 9 / 8 | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 |
| | | Heating (Hi/Me/Lo) | 10 / 9 / 8 | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 |
| | Outdoor | Cooling/Heating | 60 / 50 | 100 / 100 | 100 / 100 | 100 / 100 |
| External static pressure*3 | Pa | Standard:35 Max:100 | | | | |
| Exterior dimensions | Indoor | 280 x 750 x 635 | | | 280 x 950 x 635 | |
| | Outdoor | HeightxWidthxDepth | 750 x 880(+88) x 340 | | | 1,300 x 970 x 370 |
| Net weight | Indoor | 29 | | | 34 | |
| | Outdoor | 60 | | | 105 | |
| Ref.piping size | Liquid/Gas | ømm 9.52(3/8") / 15.88(5/8") | | | | |
| Refrigerant line (one way) length | m | Max.50 | | | Max.100 | |
| Vertical height differences | Outdoor is higher/lower | m Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | Cooling | °C -15~43**4 | | | | |
| | Heating | °C -20~20 | | | | |
| Air filter | | Filter kit : UM-FL1EF / UM-FL2EF (option) | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | | |

The values are for simultaneous Multi operation.

| Set model name | | Hyper Inverter | | | | |
|-------------------------------------|-------------------------|--|---------------------|---------------------|---------------------|-----------------|
| | | FDUM100VFXPVF | FDUM125VFXPVF | FDUM140VFXPVF1 | FDUM140VFXXTVF | |
| | | Twin | | Triple | | |
| Indoor unit | | FDUM50VF | FDUM60VF | FDUM71VF1 | FDUM50VF | |
| Outdoor unit | | FDC100VFX | FDC125VFX | FDC140VFX | FDC140VFX | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | |
| Nominal cooling capacity (Min-Max) | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | 14.0 (5.0 ~ 16.0) | |
| Nominal heating capacity (Min-Max) | kW | 11.2 (4.0 ~ 16.0) | 14.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 20.0) | 16.0 (4.0 ~ 20.0) | |
| Power consumption | Cooling/Heating kW | 2.66 / 3.02 | 3.26 / 3.66 | 4.36 / 4.35 | 4.21 / 4.69 | |
| EER/COP | Cooling/Heating | 3.76 / 3.71 | 3.83 / 3.83 | 3.21 / 3.68 | 3.33 / 3.41 | |
| Inrush current | A | 5 | 5 | 5 | 5 | |
| Max. current | | 15 | 15 | 15 | 15 | |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 60 / 60 | 65 / 65 | |
| | Outdoor | Cooling/Heating | 70 / 70 | 70 / 70 | 72 / 72 | |
| Sound pressure level*1 *2 | Indoor*2 | Cooling (Hi/Me/Lo) | 32 / 29 / 26 | 31 / 28 / 25 | 33 / 29 / 25 | |
| | | Heating (Hi/Me/Lo) | 32 / 29 / 26 | 31 / 28 / 25 | 33 / 29 / 25 | |
| | Outdoor | Cooling/Heating | 48 / 50 | 48 / 50 | 49 / 52 | |
| | | Cooling/Heating | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 | |
| Air flow *2 | Indoor*2 | Cooling (Hi/Me/Lo) | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 | |
| | | Heating (Hi/Me/Lo) | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 | |
| | Outdoor | Cooling/Heating | 100 / 100 | 100 / 100 | 100 / 100 | |
| External static pressure*3 | Pa | Standard:35 Max:100 | | | | |
| Exterior dimensions | Indoor | 280 x 750 x 635 | | | 280 x 950 x 635 | |
| | Outdoor | HeightxWidthxDepth | 1,300 x 970 x 370 | | | 280 x 750 x 635 |
| Net weight | Indoor | 29 | | | 34 | |
| | Outdoor | 60 | | | 105 | |
| Ref.piping size | Liquid/Gas | ømm 9.52(3/8") / 15.88(5/8") | | | | |
| Refrigerant line (one way) length | m | Max.100 | | | | |
| Vertical height differences | Outdoor is higher/lower | m Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | Cooling | °C -15~43**4 | | | | |
| | Heating | °C -20~20 | | | | |
| Air filter | | Filter kit : UM-FL1EF / UM-FL2EF (option) | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | | |

**2 Powerful-Hi can be selected.

Sound pressure level: 71VNXPVF/100VN(S)XPVF 37dB(A), 125VN(S)XPVF 36dB(A), 140VN(S)XPVF1 38dB(A), 140VN(S)XTVF 37dB(A)
Air flow: 71VNXPVF/100VN(S)XPVF 13m³/min, 125VN(S)XPVF 20m³/min, 140VN(S)XPVF1 24m³/min, 140VN(S)XTVF 13m³/min

SPECIFICATIONS

| Set model name | | Micro Inverter | | | | | | | | |
|-------------------------------------|------------|--|--------------------|--------------------------|-------------------------------------|-------------------|-------------------|-------------------|---------------------|--------------|
| | | FDUM100VNVF2 | FDUM125VNVF | FDUM140VNVF | FDUM100VSVF2 | FDUM125VSVF | FDUM140VSVF | | | |
| Indoor unit | | FDUM100VF2 | FDUM125VF | FDUM140VF | FDUM100VF2 | FDUM125VF | FDUM140VF | | | |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN | FDC100VS | FDC125VS | FDC140VS | | | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | | |
| Nominal cooling capacity (Min~Max) | | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | | |
| Nominal heating capacity (Min~Max) | | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | | |
| Power consumption | | Cooling/Heating | kW | | 2.80 / 3.02 | 3.90 / 3.88 | 4.95 / 4.69 | 2.80 / 3.02 | 3.90 / 3.88 | 4.95 / 4.69 |
| EER/COP | | | Cooling/Heating | | 3.57 / 3.71 | 3.21 / 3.61 | 2.83 / 3.41 | 3.57 / 3.71 | 3.21 / 3.61 | 2.83 / 3.41 |
| Inrush current | | A | 5 | | 5 | 5 | 5 | 5 | 5 | |
| Max. current | | | 24 | | 24 | 24 | 15 | 15 | 15 | |
| Sound power level*1 | Indoor | Cooling/Heating | dB(A) | | 65 / 65 | 67 / 67 | 70 / 70 | 65 / 65 | 67 / 67 | 70 / 70 |
| | Outdoor | | Cooling/Heating | | 70 / 70 | 72 / 72 | 73 / 73 | 70 / 70 | 72 / 72 | 73 / 73 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | dB(A) | | 38 / 36 / 30 | 40 / 34 / 29 | 40 / 35 / 30 | 38 / 36 / 30 | 40 / 34 / 29 | 40 / 35 / 30 |
| | | | Heating (Hi/Me/Lo) | dB(A) | | 38 / 36 / 30 | 40 / 34 / 29 | 40 / 35 / 30 | 38 / 36 / 30 | 40 / 34 / 29 |
| | Outdoor | Cooling/Heating | | dB(A) | | 49 / 49 | 50 / 51 | 51 / 51 | 49 / 49 | 50 / 51 |
| | | | Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | m³/min | | 28 / 25 / 19 | 32 / 26 / 20 | 35 / 28 / 22 |
| Heating (Hi/Me/Lo) | m³/min | | | | | 28 / 25 / 19 | 32 / 26 / 20 | 35 / 28 / 22 | 28 / 25 / 19 | 32 / 26 / 20 |
| | Outdoor | Cooling/Heating | m³/min | | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 |
| External static pressure*3 | | | Pa | | | | | | Standard:60 Max:100 | |
| Exterior dimensions | Indoor | HeightxWidthxDpeth | mm | | 280 x 1,370 x 740 | | | | | |
| | Outdoor | | 845 x 970 x 370 | | | | | | | |
| Net weight | Indoor | kg | | 54 | | | | | | |
| | Outdoor | kg | | 81 | | | 83 | | | |
| Ref.piping size | Liquid/Gas | ømm | | 9.52(3/8") / 15.88(5/8") | | | | | | |
| Refrigerant line (one way) length | | m | | Max.50 | | | | | | |
| Vertical height differences | | Outdoor is higher/lower | | m | | Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | Cooling | °C | | -15~43*4 | | | | | | |
| | Heating | °C | | -20~20 | | | | | | |
| Air filter | | Filter kit : UM-FL3EF (option) | | | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | | | | | | |

The values are for simultaneous Multi operation.

| Set model name | | Micro Inverter | | | | | | | | |
|-------------------------------------|------------|--|--------------------|--------------------------|--------------------|-------------------------------------|-------------------|--------------|---------------------|--------------|
| | | FDUM100VNPVF | FDUM125VNPVF | FDUM140VNPVF1 | FDUM140VNTVF | FDUM100VSPVF | | | | |
| Indoor unit | | FDUM50VF | FDUM60VF | FDUM71VF1 | FDUM50VF | FDUM50VF | | | | |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN | FDC140VN | FDC100VS | | | | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | |
| Nominal cooling capacity (Min~Max) | | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 14.0 (5.0 ~ 14.5) | 10.0 (4.0 ~ 11.2) | | | |
| Nominal heating capacity (Min~Max) | | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 16.0 (4.0 ~ 16.5) | 11.2 (4.0 ~ 12.5) | | | |
| Power consumption | | Cooling/Heating | kW | | 2.84 / 3.35 | 3.87 / 4.07 | 4.78 / 4.60 | 4.65 / 5.15 | 2.84 / 3.35 | |
| EER/COP | | | Cooling/Heating | | 3.52 / 3.34 | 3.23 / 3.44 | 2.93 / 3.48 | 3.01 / 3.11 | 3.52 / 3.34 | |
| Inrush current | | A | 5 | | 5 | 5 | 5 | 5 | | |
| Max. current | | | 24 | | 24 | 24 | 15 | 15 | | |
| Sound power level*1 | Indoor*2 | Cooling/Heating | dB(A) | | 60 / 60 | 60 / 60 | 65 / 65 | 60 / 60 | 60 / 60 | |
| | Outdoor | | Cooling/Heating | | 70 / 70 | 72 / 72 | 73 / 73 | 73 / 73 | 70 / 70 | |
| Sound pressure level*1 ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | dB(A) | | 32 / 29 / 26 | 31 / 28 / 25 | 33 / 29 / 25 | 32 / 29 / 26 | 32 / 29 / 26 | |
| | | | Heating (Hi/Me/Lo) | dB(A) | | 32 / 29 / 26 | 31 / 28 / 25 | 33 / 29 / 25 | 32 / 29 / 26 | 32 / 29 / 26 |
| | Outdoor | Cooling/Heating | | dB(A) | | 49 / 49 | 50 / 51 | 51 / 51 | 51 / 51 | 49 / 49 |
| | | | Air flow ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | m³/min | | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 |
| Heating (Hi/Me/Lo) | m³/min | | | | | 10 / 9 / 8 | 15 / 13 / 10 | 19 / 15 / 10 | 10 / 9 / 8 | 10 / 9 / 8 |
| | Outdoor | Cooling/Heating | m³/min | | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | |
| External static pressure*3 | | | Pa | | | | | | Standard:35 Max:100 | |
| Exterior dimensions | Indoor | HeightxWidthxDpeth | 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 | kg | | 81 | | | 83 | | | |
| Ref.piping size | Liquid/Gas | ømm | | 9.52(3/8") / 15.88(5/8") | | | | | | |
| Refrigerant line (one way) length | | m | | Max.50 | | | | | | |
| Vertical height differences | | Outdoor is higher/lower | | m | | Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | Cooling | °C | | -15~43*4 | | | | | | |
| | Heating | °C | | -20~20 | | | | | | |
| Air filter | | Filter kit : UM-FL1EF / UM-FL2EF (option) | | | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | | | | | | |

*1 Powerful-Hi can be selected.

Sound pressure level: 100VN(S)V2 44dB(A), 125VN(S)V2 45dB(A), 140VN(S)V2 47dB(A), 100VN(S)V2 37dB(A), 125VNPVF 36dB(A), 140VNPVF1 38dB(A), 140VNTVF 37dB(A)

Air flow: 100VN(S)V2 36m³/min, 125VN(S)V2 39m³/min, 140VN(S)V2 48m³/min, 100VN(S)V2 13m³/min, 125VNPVF 20m³/min, 140VNPVF1 24m³/min, 140VNTVF 13m³/min

NOTES:

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

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

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

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

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

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | Micro Inverter | | | | | | |
|-------------------------------------|----------|--|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | FDUM125VSPVF | FDUM140VSPVF1 | FDUM200VSAPVF2 | FDUM250VSAPVF | FDUM140VSTVF | FDUM200VSATVF1 | |
| Indoor unit | | FDUM60VF | FDUM71VF1 | FDUM100VF2 | FDUM125VF | FDUM50VF | FDUM71VF1 | |
| Outdoor unit | | FDC125VS | FDC140VS | FDC200VSA | FDC250VSA | FDC140VS | FDC200VSA | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | | | |
| Nominal cooling capacity (Min~Max) | | kW 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 19.0 (5.2 ~ 22.4) | 24.0 (6.9 ~ 28.0) | 14.0 (5.0 ~ 14.5) | 19.0 (5.2 ~ 22.4) | |
| Nominal heating capacity (Min~Max) | | kW 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 22.4 (3.3 ~ 25.0) | 27.0 (5.5 ~ 31.5) | 16.0 (4.0 ~ 16.5) | 22.4 (3.3 ~ 25.0) | |
| Power consumption | | Cooling/Heating kW 3.87 / 4.07 | 4.78 / 4.60 | 6.51 / 6.04 | 8.33 / 7.52 | 4.65 / 5.15 | 6.46 / 6.15 | |
| EER/COP | | Cooling/Heating 3.23 / 3.44 | 2.93 / 3.48 | 2.92 / 3.71 | 2.88 / 3.59 | 3.01 / 3.11 | 2.94 / 3.64 | |
| Inrush current | | A | 5 | 5 | 5 | 5 | 5 | |
| Max. current | | | 15 | 15 | 22 | 24 | 15 | 22 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 65 / 65 | 65 / 65 | 67 / 67 | 60 / 60 | 65 / 65 |
| | Outdoor | Cooling/Heating | 72 / 72 | 73 / 73 | 72 / 74 | 73 / 75 | 73 / 73 | 72 / 74 |
| Sound pressure level*1 **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 31 / 28 / 25 | 33 / 29 / 25 | 38 / 36 / 30 | 40 / 34 / 29 | 32 / 29 / 26 | 33 / 29 / 25 |
| | | Heating (Hi/Me/Lo) | 31 / 28 / 25 | 33 / 29 / 25 | 38 / 36 / 30 | 40 / 34 / 29 | 32 / 29 / 26 | 33 / 29 / 25 |
| | Outdoor | Cooling/Heating | 50 / 51 | 51 / 51 | 58 / 59 | 59 / 62 | 51 / 51 | 58 / 59 |
| | | Cooling (Hi/Me/Lo) | 15 / 13 / 10 | 19 / 15 / 10 | 28 / 25 / 19 | 32 / 26 / 20 | 10 / 9 / 8 | 19 / 15 / 10 |
| Air flow **2 | Outdoor | Heating (Hi/Me/Lo) | 15 / 13 / 10 | 19 / 15 / 10 | 28 / 25 / 19 | 32 / 26 / 20 | 10 / 9 / 8 | 19 / 15 / 10 |
| | | Cooling/Heating | 75 / 73 | 75 / 73 | 135 / 135 | 143 / 151 | 75 / 73 | 135 / 135 |
| External static pressure*3 | | Pa | Standard:35 Max:100 | Standard:60 Max:100 | Standard:35 Max:100 | Standard:35 Max:100 | Standard:35 Max:100 | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm | 280 x 950 x 635 | 280 x 1,370 x 740 | 280 x 750 x 635 | 280 x 950 x 635 | |
| | Outdoor | | 845 x 970 x 370 | 1,300 x 970 x 370 | 1,505 x 970 x 370 | 845 x 970 x 370 | 1,300 x 970 x 370 | |
| Net weight | Indoor | | kg | 34 | 54 | 29 | 34 | |
| | Outdoor | | 83 | 115 | 143 | 83 | 115 | |
| Ref.piping size | | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | 9.52(3/8") / 22.22(7/8") | 12.7(1/2") / 22.22(7/8") | 9.52(3/8") / 15.88(5/8") | 9.52(3/8") / 22.22(7/8") |
| Refrigerant line (one way) length | | | m | Max.50 | Max.70 | Max.50 | Max.70 | |
| Vertical height differences | | Outdoor is higher/lower | m | Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | Cooling | °C | | -15~43*4 | -15~50*4 | -15~43*4 | -15~50*4 | |
| | Heating | | -20~20 | -15~20 | -20~20 | -15~20 | | |
| Air filter | | Filter kit : UM-FL1EF / UM-FL2EF / UM-FL3EF (option) | | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | | | | |

| Set model name | | Standard Inverter | | | | |
|-------------------------------------|---------|--|----------------------|-------------------------|--------------------------|--------------------------|
| | | FDUM71VNPVF1 | FDUM90VNPVF2 | FDUM100VNP1VF2 | | |
| Indoor unit | | FDUM71VF1 | FDUM100VF2 | FDUM100VF2 | | |
| Outdoor unit | | FDC71VNP | FDC90VNP | FDC100VNP | | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | |
| Nominal cooling capacity (Min~Max) | | kW 7.1 (1.4 ~ 7.1) | 9.0 (1.9 ~ 9.0) | 10.0 (2.8 ~ 11.2) | | |
| Nominal heating capacity (Min~Max) | | kW 7.1 (1.0 ~ 7.1) | 9.0 (1.5 ~ 9.0) | 11.2 (2.5 ~ 12.5) | | |
| Power consumption | | Cooling/Heating kW 2.63 / 1.96 | 2.65 / 2.25 | 3.00 / 2.93 | | |
| EER/COP | | Cooling/Heating 2.70 / 3.62 | 3.40 / 4.00 | 3.33 / 3.82 | | |
| Inrush current | | A | 5 | 5 | | |
| Max. current | | | 14.5 | 18.0 | 22.0 | |
| Sound power level*1 | Indoor | Cooling/Heating | 65 / 65 | 65 / 65 | | |
| | Outdoor | Cooling/Heating | 67 / 67 | 69 / 69 | | |
| Sound pressure level*1 **2 | Indoor | Cooling (Hi/Me/Lo) | 33 / 29 / 25 | 38 / 36 / 30 | | |
| | | Heating (Hi/Me/Lo) | 33 / 29 / 25 | 38 / 36 / 30 | | |
| | Outdoor | Cooling/Heating | 54 / 54 | 57 / 55 | | |
| | | Cooling (Hi/Me/Lo) | 19 / 15 / 10 | 28 / 25 / 19 | | |
| Air flow **2 | Outdoor | Heating (Hi/Me/Lo) | 19 / 15 / 10 | 28 / 25 / 19 | | |
| | | Cooling/Heating | 36 / 36 | 63 / 49.5 | | |
| 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-EX3, RC-E5, RCH-E3 wireless:RCN-KIT4-E2 | | | | |

**2 Powerful-Hi can be selected.

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

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

WALL MOUNTED SRK



NEW



Only used with Multi System.

SRK 50•60



Common to the both case of Single and Multi

SRK 100



Point 1 Elegant Timeless Design

The new SRK series air-conditioners have been stylishly designed with rounded contours that fit beautifully into any of Europe's diverse interior settings.

The design was created by the Italian industrial design studio Tensa srl, based in Milan, to respond to a broad spectrum of local user needs.

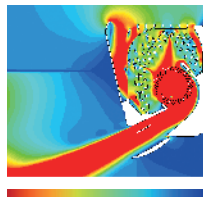
Point 2 Jet Technology

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

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



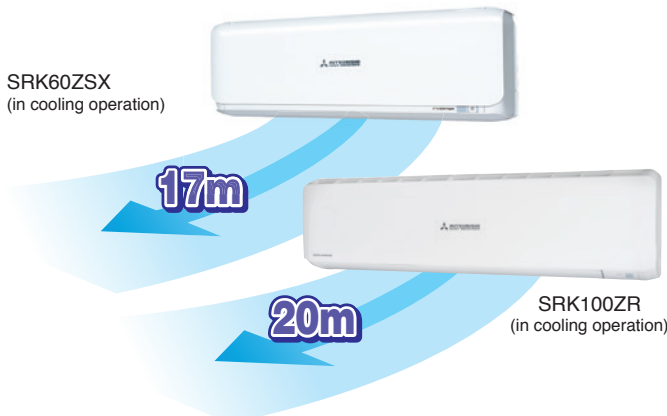
(C) Mitsubishi Aircraft Corporation



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

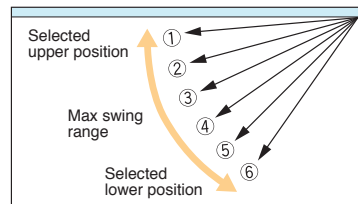
Point 3 Long Reach Air Flow

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



Point 4 Flap control system

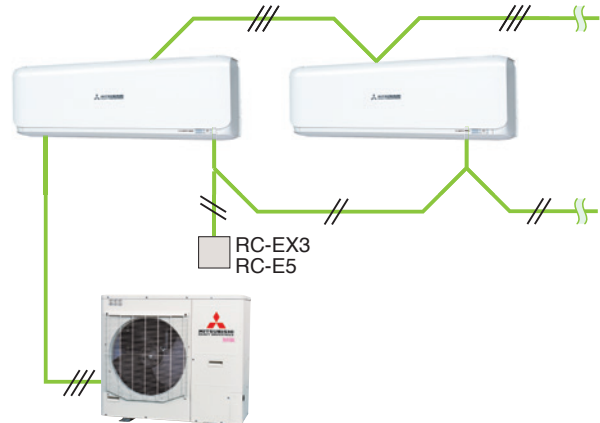
The flap can swing within the range of upper and lower flap position selected.



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

Point 5 Indoor unit connection

Max three indoor units are connectable to one outdoor unit.



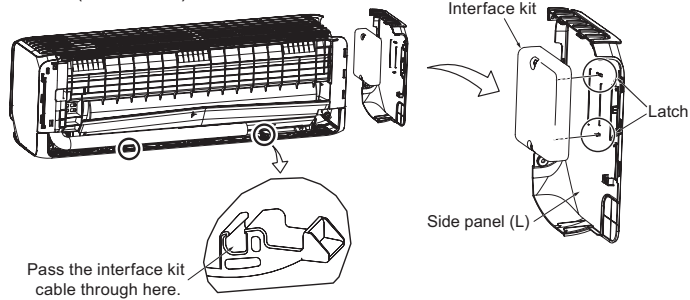
*SC-BIKN-E is necessary to connect to wired remote controller.

Point 6

SC-BIKN-E connection

(option)

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



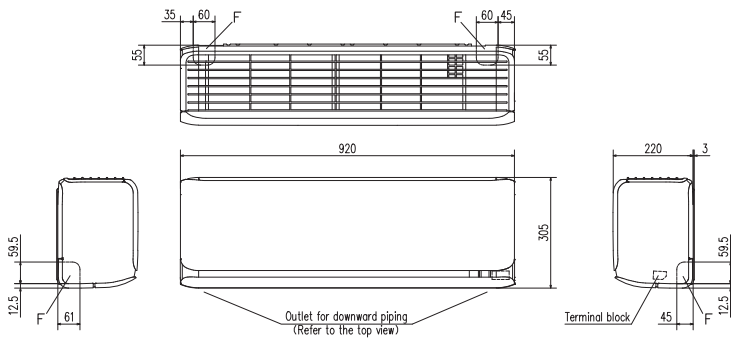
Pass the interface kit cable through here.

OUTDOOR UNIT

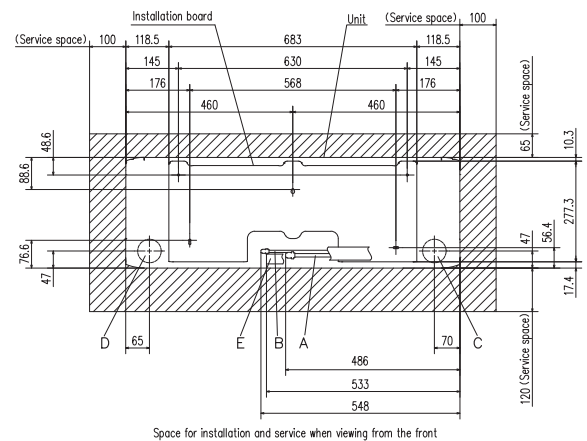
| | <i>Hyper Inverter</i> | <i>Micro Inverter</i> | <i>Standard Inverter</i> |
|-----------------------------|-----------------------|-----------------------|--------------------------|
| FDC | 100~140VN(S)X | 100~140VN(S) | 200VSA |
| model | | | |
| Chargeless | 30m | 30m | 15m |
| Height x Width x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

DIMENSIONS (Unit:mm)

SRK50ZSX-S, 60ZSX-S

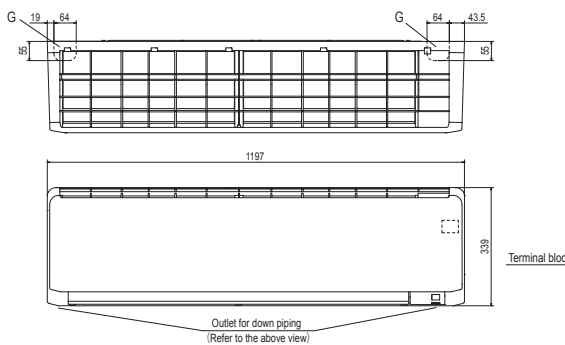


| Symbol | Content |
|--------|--|
| A | Gas piping $\phi 12.7$ (1/2") (Flare) |
| B | Liquid piping $\phi 6.35$ (1/4") (Flare) |
| C | Hole on wall for right rear piping ($\phi 65$) |
| D | Hole on wall for left rear piping ($\phi 65$) |
| E | Drain hose VP16 |
| F | Outlet for piping |

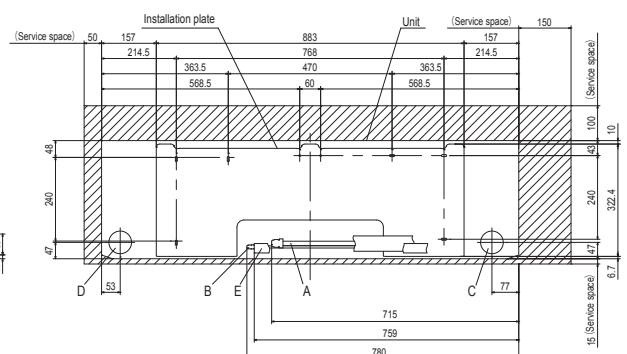


Space for installation and service when viewing from the front

SRK100ZR-S



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



Space for installation and service when viewing from the front

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | Hyper Inverter | | | | | |
|-------------------------------------|-------------------------|---|-------------------------|--------------------------|-------------------------------------|-------------------------|--------------------------|
| | | SRK100VNXPSZX | SRK125VNXPSZX | SRK140VNXPSZX | SRK100VSPZSX | SRK125VSPZSX | SRK140VSPZSX |
| | | Twin | | Triple | Twin | | Triple |
| Indoor unit | | SRK50ZSX-S | SRK60ZSX-S | SRK50ZSX-S | SRK50ZSX-S | SRK60ZSX-S | SRK50ZSX-S |
| Outdoor unit | | FDC100VNX | FDC125VNX | FDC140VNX | FDC100VNX | FDC125VNX | FDC140VNX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | |
| Nominal cooling capacity (Min~Max) | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) |
| Nominal heating capacity (Min~Max) | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 17.0) | 16.0 (4.0 ~ 18.0) | 11.2 (4.0 ~ 16.0) | 14.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 20.0) |
| Power consumption | Cooling/Heating | 2.66 / 2.60 | 3.60 / 3.48 | 3.98 / 3.68 | 2.66 / 2.60 | 3.60 / 3.48 | 3.98 / 3.68 |
| EER/COP | Cooling/Heating | 3.76 / 4.31 | 3.47 / 4.02 | 3.52 / 4.35 | 3.76 / 4.31 | 3.47 / 4.02 | 3.52 / 4.35 |
| Inrush current | A | 5 | 5 | 5 | 5 | 5 | 5 |
| Max. current | | 24 | 26 | 26 | 15 | 15 | 15 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 59 / 62 | 62 / 63 | 59 / 62 | 59 / 62 | 62 / 63 |
| | Outdoor | Cooling/Heating | 70 / 70 | 70 / 70 | 72 / 72 | 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 |
| | | 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 |
| | Outdoor | Cooling/Heating | 48 / 50 | 48 / 50 | 49 / 52 | 48 / 50 | 48 / 50 |
| | | Cooling/Heating | 48 / 50 | 48 / 50 | 49 / 52 | 48 / 50 | 49 / 52 |
| Air flow | Indoor*2 | Cooling (Hi/Me/Lo/Ulo) | 14.3 / 12.4 / 7.8 / 5.4 | 16.3 / 13.4 / 8.9 / 5.4 | 14.3 / 12.4 / 7.8 / 5.4 | 14.3 / 12.4 / 7.8 / 5.4 | 16.3 / 13.4 / 8.9 / 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 |
| | Outdoor | Cooling/Heating | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | 305 x 920 x 220 | | | | |
| | Outdoor | HeightxWidthxDepth | 1,300 x 970 x 370 | | | | |
| Net weight | Indoor | | 13 | | | | |
| | Outdoor | | 105 | | | | |
| Ref.piping size | Liquid/Gas | ømm 9.52(3/8") / 15.88(5/8") | | | | | |
| Refrigerant line (one way) length | m | Max.100 | | | | | |
| Vertical height differences | Outdoor is higher/lower | m Max.30 / Max.15 | | | | | |
| Outdoor operating temperature range | Cooling | °C -15~43*3 | | | | | |
| | Heating | °C -20~20 | | | | | |
| Air filter, Q'ty | | Polypropylene net x 2(washable) | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E | | | | | |

The values are for simultaneous Multi operation.

| Set model name | | Micro Inverter | | | | | |
|-------------------------------------|-------------------------|---|-------------------------|--------------------------|-------------------------------------|-------------------------|--------------------------|
| | | SRK100VNPZSX | SRK125VNPZSX | SRK140VNPZSX | SRK100VSPZSX | SRK125VSPZSX | SRK140VSPZSX |
| | | Twin | | Triple | Twin | | Triple |
| Indoor unit | | SRK50ZSX-S | SRK60ZSX-S | SRK50ZSX-S | SRK50ZSX-S | SRK60ZSX-S | SRK50ZSX-S |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN | FDC100VS | FDC125VS | FDC140VS |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | |
| Nominal cooling capacity (Min~Max) | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) |
| Nominal heating capacity (Min~Max) | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) |
| Power consumption | Cooling/Heating | 2.84 / 2.86 | 4.25 / 4.29 | 4.53 / 4.05 | 2.84 / 2.86 | 4.25 / 4.29 | 4.53 / 4.05 |
| EER/COP | Cooling/Heating | 3.52 / 3.92 | 2.94 / 3.26 | 3.09 / 3.95 | 3.52 / 3.92 | 2.94 / 3.26 | 3.09 / 3.95 |
| Inrush current | A | 5 | 5 | 5 | 5 | 5 | 5 |
| Max. current | | 24 | 24 | 24 | 15 | 15 | 15 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 59 / 62 | 62 / 63 | 59 / 62 | 59 / 62 | 62 / 63 |
| | Outdoor | Cooling/Heating | 70 / 70 | 72 / 72 | 73 / 73 | 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 |
| | | 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 |
| | Outdoor | Cooling/Heating | 49 / 49 | 50 / 51 | 51 / 51 | 49 / 49 | 50 / 51 |
| | | Cooling/Heating | 49 / 49 | 50 / 51 | 51 / 51 | 49 / 49 | 50 / 51 |
| Air flow | Indoor*2 | Cooling (Hi/Me/Lo/Ulo) | 14.3 / 12.4 / 7.8 / 5.4 | 16.3 / 13.4 / 8.9 / 5.4 | 14.3 / 12.4 / 7.8 / 5.4 | 14.3 / 12.4 / 7.8 / 5.4 | 16.3 / 13.4 / 8.9 / 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 |
| | Outdoor | Cooling/Heating | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm 305 x 920 x 220 | | | | |
| | Outdoor | HeightxWidthxDepth | mm 845 x 970 x 370 | | | | |
| Net weight | Indoor | | kg 13 | | | | |
| | Outdoor | | kg 81 | | kg 83 | | |
| Ref.piping size | Liquid/Gas | ømm 9.52(3/8") / 15.88(5/8") | | | | | |
| Refrigerant line (one way) length | m | Max. 50 | | | | | |
| Vertical height differences | Outdoor is higher/lower | m Max.30 / Max.15 | | | | | |
| Outdoor operating temperature range | Cooling | °C -15~43*3 | | | | | |
| | Heating | °C -20~20 | | | | | |
| Air filter, Q'ty | | Polypropylene net x 2(washable) | | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E | | | | | |

SPECIFICATIONS

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

| Set model name | | Standard Inverter | |
|-------------------------------------|-------------------------|-------------------------------------|---|
| | | SRK100VNP1ZR | SRK200VSAPZR Twin |
| Indoor unit | | SRK100ZR-S | SRK100ZR-S |
| Outdoor unit | | FDC100VNP | FDC200VSA |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | 3 Phase 380-415V, 50Hz / 380V, 60Hz |
| Nominal cooling capacity (Min~Max) | kW | 10.0 (2.4 ~ 10.5) | 19.0 (5.2 ~ 22.4) |
| Nominal heating capacity (Min~Max) | kW | 11.2 (3.2 ~ 11.5) | 22.4 (3.3 ~ 25.0) |
| Power consumption | Cooling/Heating | kW | 3.09 / 3.28 |
| EER/COP | Cooling/Heating | | 7.52 / 7.41 |
| Inrush current | | A | 14.4 |
| Max. current | | | 21 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 63 / 63 |
| | Outdoor | Cooling/Heating | 70 / 74 |
| Sound pressure level*1 | Indoor*2 | Cooling (Hi/Me/Lo/Ulo) | 48 / 45 / 40 / 27 |
| | | Heating (Hi/Me/Lo/Ulo) | 48 / 43 / 38 / 30 |
| | Outdoor | Cooling/Heating | 57 / 61 |
| Air flow | Indoor*2 | Cooling (Hi/Me/Lo/Ulo) | 24.5 / 21.3 / 17.6 |
| | | Heating (Hi/Me/Lo/Ulo) | 27.5 / 23.2 / 19.1 |
| | Outdoor | Cooling/Heating | 75 / 80 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | 339 x 1,197 x 262 |
| | Outdoor | | 845 x 970 x 370 |
| Net weight | Indoor | | 16.5 |
| | Outdoor | | 70 |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") |
| Refrigerant line (one way) length | | m | Max.30 |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 |
| Outdoor operating temperature range | Cooling | °C | -15~46*3 |
| | Heating | | -15~20 |
| Air filter, Q'ty | | | Polypropylene net x2 (Washable) |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 & Interface kit:SC-BIKN-E |

NOTES:

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

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

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

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

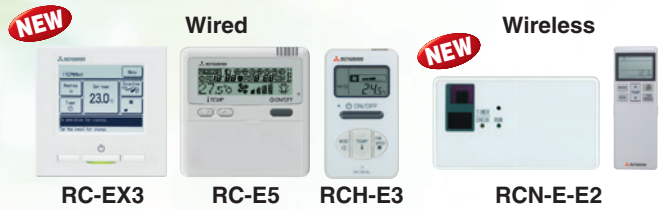
*3 : If a cooling operation is conducted when the outdoor air temperature is -5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop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

CEILING SUSPENDED FDE



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

Remote control (Option)



RC-EX3

RC-E5

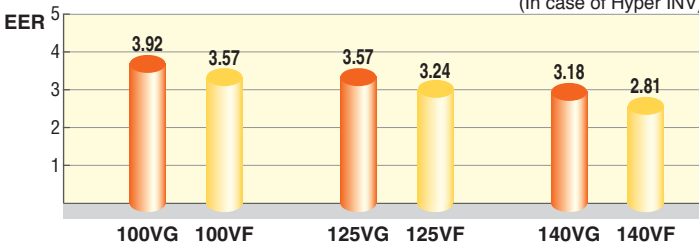
RCH-E3

RCN-E-E2

Point 1 High efficiency

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

(In case of Hyper INV)



Point 2 Reduction of weight

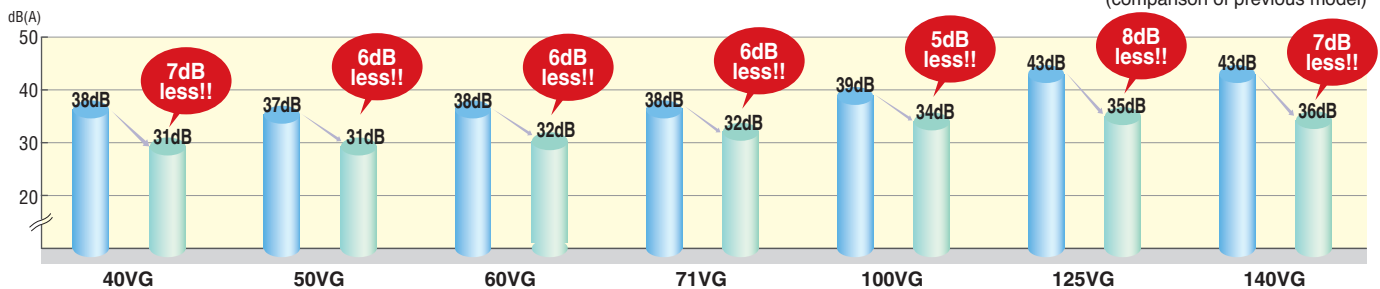
Thanks to decreasing the numbers of fan motor from two to one, reduction of weight was achieved.

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

Point 3 More quiet noise

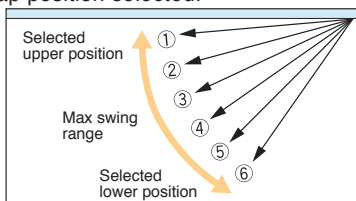
The industry's lowest sound pressure levels were achieved by decreasing air flow volume, decreasing pressure loss with employment of one fan motor and optimizing casing and distributor shape.

(comparison of previous model)



Point 4 Flap control system

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

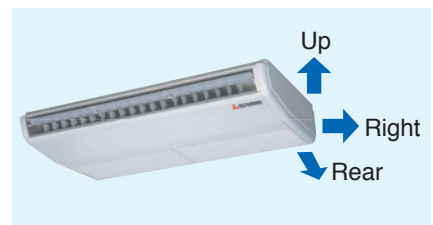


※The wireless remote control is not applicable to the flap control system.







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.



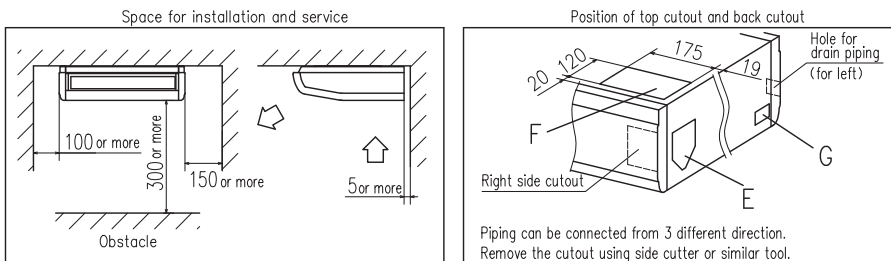
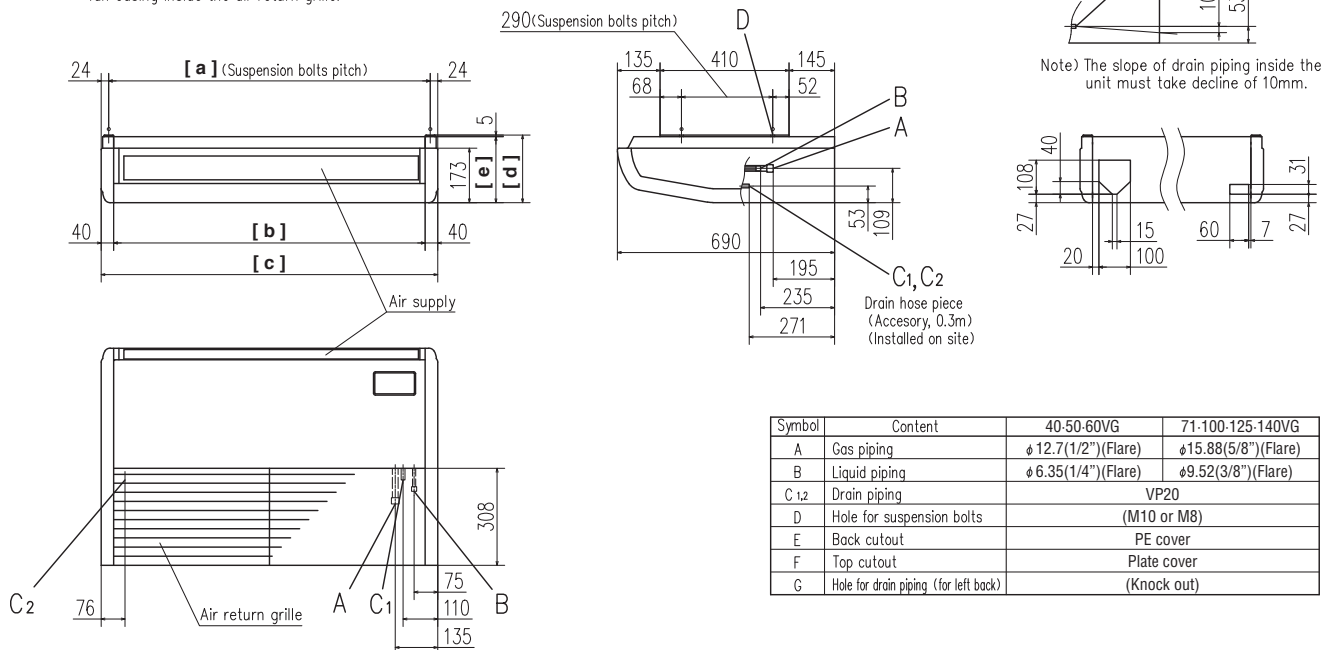
OUTDOOR UNIT

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

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

DIMENSIONS (Unit:mm)

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



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

DIMENSIONS TABLE

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

SPECIFICATIONS

| | | Hyper Inverter | | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|--------------------------|-------------------|---------------------|
| Set model name | | FDE40ZSXVG | FDE50ZSXVG | FDE60ZSXVG | FDE71VNXVG | FDE100VNXVG |
| Indoor unit | | FDE40VG | FDE50VG | FDE60VG | FDE71VG | FDE100VG |
| Outdoor unit | | SRC40ZSX-S | SRC50ZSX-S | SRC60ZSX-S | FDC71VNX | FDC100VNX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | |
| Nominal cooling capacity (Min~Max) | | kW 4.0 (1.1 ~ 4.7) | 5.0 (1.1 ~ 5.6) | 5.6 (1.1 ~ 6.3) | 7.1 (3.2 ~ 8.0) | 10.0 (4.0 ~ 11.2) |
| Nominal heating capacity (Min~Max) | | kW 4.5 (0.6 ~ 5.4) | 5.4 (0.6 ~ 6.3) | 6.7 (0.6 ~ 7.1) | 8.0 (3.6 ~ 9.0) | 11.2 (4.0 ~ 12.5) |
| Power consumption | Cooling/Heating | kW 1.02 / 1.10 | 1.52 / 1.46 | 1.75 / 1.86 | 2.11 / 2.11 | 2.55 / 2.68 |
| EER/COP | Cooling/Heating | 3.92 / 4.09 | 3.29 / 3.70 | 3.20 / 3.60 | 3.36 / 3.79 | 3.92 / 4.18 |
| Inrush current | | A 5 | 5 | 5 | 5 | 5 |
| Max. current | | 12 | 15 | 15 | 17 | 24 |
| Sound power level*1 | Indoor | Cooling/Heating | 60 / 60 | 60 / 60 | 60 / 60 | 64 / 64 |
| | Outdoor | Cooling/Heating | 63 / 63 | 63 / 63 | 65 / 64 | 70 / 70 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | 38 / 36 / 31 | 38 / 36 / 31 | 41 / 37 / 32 | 41 / 37 / 32 |
| | | Heating (Hi/Me/Lo) | 38 / 36 / 31 | 38 / 36 / 31 | 41 / 37 / 32 | 43 / 38 / 34 |
| | Outdoor | Cooling/Heating | 50 / 49 | 50 / 49 | 52 / 52 | 51 / 48 |
| | | Cooling/Heating | 48 / 50 | 48 / 50 | 48 / 50 | 48 / 50 |
| Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | 10 / 9 / 7 | 10 / 9 / 7 | 16 / 13 / 10 | 16 / 13 / 10 |
| | | Heating (Hi/Me/Lo) | 10 / 9 / 7 | 10 / 9 / 7 | 16 / 13 / 10 | 16 / 13 / 10 |
| | Outdoor | Cooling/Heating | 36 / 33 | 40 / 33 | 41.5 / 39 | 60 / 50 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm 210 x 1,070 x 690 | 210 x 1,320 x 690 | 250 x 1,620 x 690 | 250 x 1,620 x 690 |
| | Outdoor | HeightxWidthxDepth | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | 1,300 x 970 x 370 | 1,300 x 970 x 370 |
| Net weight | Indoor | | kg 28 | 33 | 43 | 105 |
| | Outdoor | | 45 | 60 | 105 | |
| Ref.piping size | Liquid/Gas | ømm | 6.35(1/4") / 12.7(1/2") | 9.52(3/8") / 15.88(5/8") | | |
| Refrigerant line (one way) length | | m | Max.30 | Max.50 | Max.100 | |
| Vertical height differences | Outdoor is higher/lower | m | Max.20 / Max.20 | Max.30 / Max.15 | | |
| Outdoor operating temperature range | Cooling | °C | -15~46*3 | -15~43*3 | | |
| | Heating | | -20~24 | -20~20 | | |
| Air filter, Q'ty | | | Pocket Plastic net x2(Washable) | | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2 | | | |

| | | Hyper Inverter | | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|---------------------|-------------------------------------|---------------------|
| Set model name | | FDE125VNXVG | FDE140VNXVG | FDE100VSVXVG | FDE125VSVXVG | FDE140VSVXVG |
| Indoor unit | | FDE125VG | FDE140VG | FDE100VG | FDE125VG | FDE140VG |
| Outdoor unit | | FDC125VNX | FDC140VNX | FDC100VSVX | FDC125VSVX | FDC140VSVX |
| 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 | 64 / 64 | 65 / 65 | 64 / 64 | 64 / 64 |
| | Outdoor | Cooling/Heating | 70 / 70 | 72 / 72 | 70 / 70 | 70 / 70 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | 45 / 40 / 35 | 45 / 40 / 36 | 43 / 38 / 34 | 45 / 40 / 35 |
| | | Heating (Hi/Me/Lo) | 45 / 40 / 35 | 45 / 40 / 36 | 43 / 38 / 34 | 45 / 40 / 35 |
| | Outdoor | Cooling/Heating | 48 / 50 | 49 / 52 | 48 / 50 | 48 / 50 |
| | | Cooling/Heating | 49 / 52 | 48 / 50 | 48 / 50 | 49 / 52 |
| Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | 29 / 23 / 17 | 29 / 23 / 18 | 26 / 21 / 16.5 | 29 / 23 / 17 |
| | | Heating (Hi/Me/Lo) | 29 / 23 / 17 | 29 / 23 / 18 | 26 / 21 / 16.5 | 29 / 23 / 17 |
| | Outdoor | Cooling/Heating | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm 250 x 1,620 x 690 | 1,300 x 970 x 370 | | |
| | Outdoor | HeightxWidthxDepth | | | | |
| Net weight | Indoor | | kg 43 | 105 | | |
| | Outdoor | | | | | |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | | |
| Refrigerant line (one way) length | | m | Max.100 | | | |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 | | | |
| Outdoor operating temperature range | Cooling | °C | -15~43*3 | | | |
| | Heating | | -20~20 | | | |
| Air filter, Q'ty | | | Pocket Plastic net x2(Washable) | | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2 | | | |

※1 Powerful-Hi can be selected.

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

NOTES:

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | Hyper Inverter | | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|---------------------|---------------------|---------------------|
| | | FDE71VNXPVG | FDE100VNXPVG | FDE125VNXPVG | FDE140VNXPVG | FDE140VNXTVG |
| | | Twin | | | | Triple |
| Indoor unit | | FDE40VG | FDE50VG | FDE60VG | FDE71VG | FDE50VG |
| Outdoor unit | | FDC71VNX | FDC100VNX | FDC125VNX | FDC140VNX | FDC140VNX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | | |
| Nominal cooling capacity (Min-Max) | kW | 7.1 (3.2 ~ 8.0) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | 14.0 (5.0 ~ 16.0) |
| Nominal heating capacity (Min-Max) | kW | 8.0 (3.6 ~ 9.0) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 17.0) | 16.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 18.0) |
| Power consumption | Cooling/Heating | 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 | | 5 | 5 | 5 | 5 | 5 |
| Max. current | | 17 | 24 | 26 | 26 | 26 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 60 / 60 | 60 / 60 | 60 / 60 |
| | Outdoor | Cooling/Heating | 66 / 66 | 70 / 70 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 38 / 36 / 31 | 38 / 36 / 31 | 41 / 37 / 32 | 41 / 37 / 32 |
| | | Heating (Hi/Me/Lo) | 38 / 36 / 31 | 38 / 36 / 31 | 41 / 37 / 32 | 41 / 37 / 32 |
| | Outdoor | Cooling/Heating | 51 / 48 | 48 / 50 | 48 / 50 | 49 / 52 |
| | | Cooling/Heating | 10 / 9 / 7 | 10 / 9 / 7 | 16 / 13 / 10 | 16 / 13 / 10 |
| Air flow **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 10 / 9 / 7 | 10 / 9 / 7 | 16 / 13 / 10 | 16 / 13 / 10 |
| | | Heating (Hi/Me/Lo) | 10 / 9 / 7 | 10 / 9 / 7 | 16 / 13 / 10 | 16 / 13 / 10 |
| | Outdoor | Cooling/Heating | 60 / 50 | 100 / 100 | 100 / 100 | 100 / 100 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | 210 x 1,070 x 690 | | 210 x 1,320 x 690 | |
| | Outdoor | | 750 x 880(+88) x 340 | | 1,300 x 970 x 370 | |
| Net weight | Indoor | | 28 | | 33 | |
| | Outdoor | | 60 | | 105 | |
| Ref.piping size | Liquid/Gas | | 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-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2 | | | |

The values are for simultaneous Multi operation.

| Set model name | | Hyper Inverter | | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|---------------------|---------------------|--|
| | | FDE100VSXPVG | FDE125VSXPVG | FDE140VSXPVG | FDE140VSXTVG | |
| | | Twin | | | Triple | |
| Indoor unit | | FDE50VG | FDE60VG | FDE71VG | FDE50VG | |
| Outdoor unit | | FDC100VSX | FDC125VSX | FDC140VSX | FDC140VSX | |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | |
| Nominal cooling capacity (Min-Max) | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 16.0) | 14.0 (5.0 ~ 16.0) | |
| Nominal heating capacity (Min-Max) | kW | 11.2 (4.0 ~ 16.0) | 14.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 20.0) | 16.0 (4.0 ~ 20.0) | |
| Power consumption | Cooling/Heating | 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 | | 5 | 5 | 5 | 5 | |
| Max. current | | 15 | 15 | 15 | 15 | |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 60 / 60 | 60 / 60 | |
| | Outdoor | Cooling/Heating | 70 / 70 | 70 / 70 | 72 / 72 | |
| Sound pressure level*1 **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 38 / 36 / 31 | 41 / 37 / 32 | 41 / 37 / 32 | |
| | | Heating (Hi/Me/Lo) | 38 / 36 / 31 | 41 / 37 / 32 | 41 / 37 / 32 | |
| | Outdoor | Cooling/Heating | 48 / 50 | 48 / 50 | 49 / 52 | |
| | | Cooling/Heating | 10 / 9 / 7 | 16 / 13 / 10 | 16 / 13 / 10 | |
| Air flow **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 10 / 9 / 7 | 16 / 13 / 10 | 16 / 13 / 10 | |
| | | Heating (Hi/Me/Lo) | 10 / 9 / 7 | 16 / 13 / 10 | 16 / 13 / 10 | |
| | Outdoor | Cooling/Heating | 100 / 100 | 100 / 100 | 100 / 100 | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | 210 x 1,070 x 690 | | 210 x 1,320 x 690 | |
| | Outdoor | | | | 1,300 x 970 x 370 | |
| Net weight | Indoor | | 28 | | 33 | |
| | Outdoor | | 60 | | 105 | |
| Ref.piping size | Liquid/Gas | | 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-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2 | | | |

**2 Powerful-Hi can be selected.

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

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

SPECIFICATIONS

| | | Micro Inverter | | | | | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|-------------------|-------------------------------------|-------------------|-------------------|-------------------|--------------|
| Set model name | | FDE100VNVG | FDE125VNVG | FDE140VNVG | FDE100VSVG | FDE125VSVG | FDE140VSVG | | |
| Indoor unit | | FDE100VG | FDE125VG | FDE140VG | FDE100VG | FDE125VG | FDE140VG | | |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN | FDC100VS | FDC125VS | FDC140VS | | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | |
| Nominal cooling capacity (Min~Max) | | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | |
| Nominal heating capacity (Min~Max) | | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | |
| Power consumption | | kW | 2.85 / 2.90 | 4.45 / 4.08 | 5.80 / 4.92 | 2.85 / 2.90 | 4.45 / 4.08 | 5.80 / 4.92 | |
| EER/COP | | | 3.51 / 3.86 | 2.81 / 3.43 | 2.41 / 3.25 | 3.51 / 3.86 | 2.81 / 3.43 | 2.41 / 3.25 | |
| Inrush current | | A | 5 | 5 | 5 | 5 | 5 | 5 | |
| Max. current | | | 24 | 24 | 24 | 15 | 15 | 15 | |
| Sound power level*1 | Indoor | Cooling/Heating | 64 / 64 | 64 / 64 | 65 / 65 | 64 / 64 | 64 / 64 | 65 / 65 | |
| | Outdoor | Cooling/Heating | 70 / 70 | 72 / 72 | 73 / 73 | 70 / 70 | 72 / 72 | 73 / 73 | |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | dB(A) | 43 / 38 / 34 | 45 / 40 / 35 | 45 / 40 / 36 | 43 / 38 / 34 | 45 / 40 / 35 | 45 / 40 / 36 |
| | | Heating (Hi/Me/Lo) | | 43 / 38 / 34 | 45 / 40 / 35 | 45 / 40 / 36 | 43 / 38 / 34 | 45 / 40 / 35 | 45 / 40 / 36 |
| | Outdoor | Cooling/Heating | 49 / 49 | 50 / 51 | 51 / 51 | 49 / 49 | 50 / 51 | 51 / 51 | |
| | | Indoor | Cooling (Hi/Me/Lo) | m³/min | 26 / 21 / 16.5 | 29 / 23 / 17 | 29 / 23 / 18 | 26 / 21 / 16.5 | 29 / 23 / 17 |
| Outdoor | Heating (Hi/Me/Lo) | 26 / 21 / 16.5 | 29 / 23 / 17 | | 29 / 23 / 18 | 26 / 21 / 16.5 | 29 / 23 / 17 | 29 / 23 / 18 | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | mm | 250 x 1,620 x 690 | | | | 845 x 970 x 370 | |
| | Outdoor | | | 43 | | | | | |
| Net weight | Indoor | kg | 81 | | | | 83 | | |
| | Outdoor | | | | | | | | |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | | | | | |
| Refrigerant line (one way) length | | m | Max.50 | | | | | | |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 | | | | | | |
| Outdoor operating temperature range | Cooling | °C | -15~43*3 | | | | | | |
| | Heating | | -20~20 | | | | | | |
| Air filter, Q'ty | | | Pocket Plastic net x2(Washable) | | | | | | |
| Remote control (option) | | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2 | | | | | | |

The values are for simultaneous Multi operation.

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

※1 Powerful-Hi can be selected.

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

NOTES:

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

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

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

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

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | Micro Inverter | | | | |
|-------------------------------------|----------|---|------------------------------|--------------------------|--------------------------|--------------------------|
| | | FDE140VSPVG | FDE200VSAPVG | FDE250VSAPVG | FDE140VSTVG | FDE200VSATVG |
| Indoor unit | | FDE71VG | FDE100VG | FDE125VG | FDE50VG | FDE71VG |
| Outdoor unit | | FDC140VS | FDC200VSA | FDC250VSA | FDC140VS | FDC200VSA |
| Power source | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | | | |
| Nominal cooling capacity (Min~Max) | | kW 14.0 (5.0 ~ 14.5) | 19.0 (5.2 ~ 22.4) | 24.0 (6.9 ~ 28.0) | 14.0 (5.0 ~ 14.5) | 19.0 (5.2 ~ 22.4) |
| Nominal heating capacity (Min~Max) | | kW 16.0 (4.0 ~ 16.5) | 22.4 (3.3 ~ 25.0) | 27.0 (5.5 ~ 31.5) | 16.0 (4.0 ~ 16.5) | 22.4 (3.3 ~ 25.0) |
| Power consumption | | Cooling/Heating kW 4.87 / 4.59 | 6.34 / 6.10 | 8.52 / 7.54 | 4.88 / 4.57 | 6.33 / 5.94 |
| EER/COP | | Cooling/Heating 2.87 / 3.49 | 3.00 / 3.67 | 2.82 / 3.58 | 2.87 / 3.50 | 3.00 / 3.77 |
| Inrush current | | A | 5 | 5 | 5 | 5 |
| Max. current | | | 15 | 20 | 21 | 15 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 60 / 60 | 64 / 64 | 64 / 64 | 60 / 60 |
| | Outdoor | Cooling/Heating | 73 / 73 | 72 / 74 | 73 / 75 | 73 / 73 |
| Sound pressure level*1 **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 41 / 37 / 32 | 43 / 38 / 44 | 45 / 40 / 35 | 38 / 36 / 31 |
| | Outdoor | Heating (Hi/Me/Lo) | 41 / 37 / 32 | 43 / 38 / 44 | 45 / 40 / 35 | 38 / 36 / 31 |
| Air flow **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 16 / 13 / 10 | 26 / 21 / 16.5 | 29 / 23 / 17 | 10 / 9 / 7 |
| | Outdoor | Heating (Hi/Me/Lo) | 16 / 13 / 10 | 26 / 21 / 16.5 | 29 / 23 / 17 | 10 / 9 / 7 |
| Exterior dimensions | | HeightxWidthxDepth | mm 210 x 1,320 x 690 | 250 x 1,620 x 690 | 210 x 1,070 x 690 | 210 x 1,320 x 690 |
| Net weight | | kg | 33 | 43 | 28 | 33 |
| Ref.piping size | | Liquid/Gas | ømm 9.52(3/8") / 15.88(5/8") | 9.52(3/8") / 22.22(7/8") | 12.7(1/2") / 22.22(7/8") | 9.52(3/8") / 15.88(5/8") |
| Refrigerant line (one way) length | | m | Max.50 | Max.70 | Max.50 | Max.70 |
| Vertical height differences | | Outdoor is higher/lower | m Max.30 / Max.15 | | | |
| Outdoor operating temperature range | | Cooling | °C -15~-43*3 | -15~-50*3 | -15~-43*3 | -15~-50*3 |
| | | Heating | -20~-20 | -15~-20 | -20~-20 | -15~-20 |
| Air filter, Q'ty | | Pocket plastic net x 2(Washable) | | | | |
| Remote control (option) | | wired:RC-EX3, RC-E5, RCH-E3 wireless:RCN-E-E2 | | | | |

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

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

**2 Powerful-Hi can be selected.

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

71VNPVG 47dB(A), 90VNPVG 48dB(A), 100VNP1VG 48dB(A)

Air flow: 140VSPVG 20m³/min, 200/250VSAPVG 32m³/min, 140VSTVG 13m³/min, 200VSATVG 20m³/min, 200VSADVG 13m³/min, 250VSADVG 20m³/min,

71VNPVG 20m³/min, 90VNPVG 32m³/min, 100VNP1VG 32m³/min

FLOOR STANDING FDF



Wireless remote control (Option)

NEW



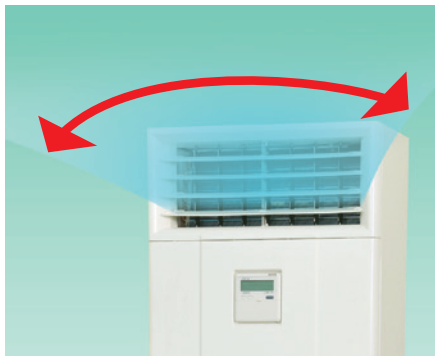
RCN-KIT4-E2



FDF 71/100/125/140

Point 1 Wide and powerful air flow

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



Point 2 Easy Transportation and Installation workability

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

Easy Maintenance

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

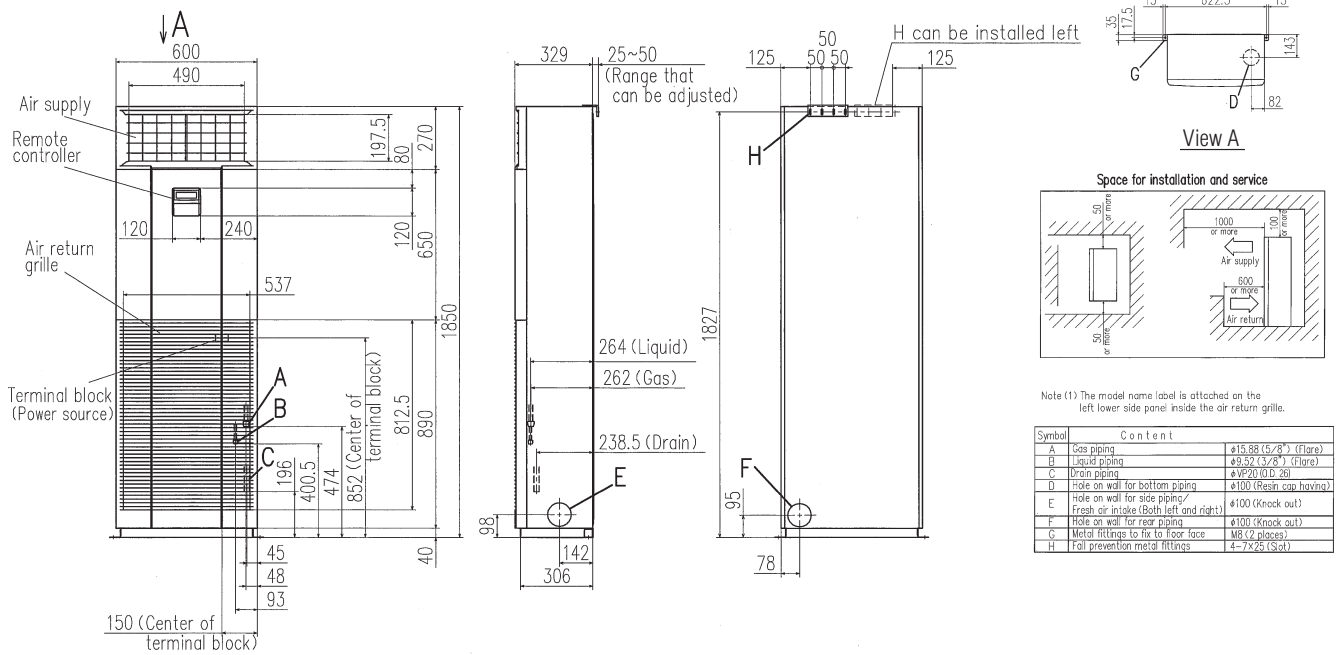


OUTDOOR UNIT

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

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

DIMENSIONS(Unit:mm)



| Symbol | Content | |
|--------|---|-------------------------|
| A | Gas piping | φ15.88(5/8") (Flare) |
| B | Liquid piping | φ9.52(3/8") (Flare) |
| C | Drain piping | φ12.7(1/2") |
| D | Hole on wall for bottom piping | φ100 (Clean cap having) |
| E | Hole on wall for side piping/ Fresh air intake (Both left and right) | φ100 (Knock out) |
| F | Hole on wall for rear piping | φ100 (Knock out) |
| G | Metal fittings to fit to floor face | M8 (2 pieces) |
| H | Fall prevention metal fittings | 4-7x25 (Set) |

SPECIFICATIONS

| | | Hyper Inverter | | | | | | |
|-------------------------------------|---------|---|------------------------------|-------------------|-------------------|-------------------------------------|-------------------|-------------------|
| Set model name | | PDF71VNXVD1 | PDF100VNXVD2 | PDF125VNXVD | PDF140VNXVD | PDF100VSXVD2 | PDF125VSXVD | PDF140VSXVD |
| Indoor unit | | PDF71VD1 | PDF100VD2 | PDF125VD | PDF140VD | PDF100VD2 | PDF125VD | PDF140VD |
| 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 61 / 61 | 65 / 65 | 73 / 73 | 73 / 73 | 65 / 65 | 73 / 73 | 73 / 73 |
| | Outdoor | Cooling/Heating 66 / 66 | 70 / 70 | 70 / 70 | 72 / 72 | 70 / 70 | 70 / 70 | 72 / 72 |
| Sound pressure level*1 **1 | Indoor | Cooling (Hi/Me/Lo) 39 / 35 / 33 | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 |
| | Outdoor | Cooling/Heating 51 / 48 | 48 / 50 | 48 / 50 | 49 / 52 | 48 / 50 | 48 / 50 | 49 / 52 |
| Air flow *1 | Indoor | Cooling (Hi/Me/Lo) 18 / 16 / 14 | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 |
| | Outdoor | Cooling/Heating 60 / 50 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 | 100 / 100 |
| Exterior dimensions | Indoor | 1,850 x 600 x 320 | | | | | | |
| | Outdoor | HeightxWidthxDepth mm | 750 x 880(+88) x 340 | | | | | |
| Net weight | Indoor | 49 | | | | | | |
| | Outdoor | 60 | | | | | | |
| Ref.piping size | | Liquid/Gas | ømm 9.52(3/8") / 15.88(5/8") | | | | | |
| Refrigerant line (one way) length | | m | Max.50 | | | | | |
| Vertical height differences | | Outdoor is higher/lower | m Max.30 / Max.15 | | | | | |
| Outdoor operating temperature range | | Cooling/Heating °C | -15~43*3 -20~20 | | | | | |
| Air filter, Q'ty | | Plastic net x 1 (washable) | | | | | | |
| Remote control | | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) | | | | | | |

*1 Powerful-Hi can be selected.

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

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

NOTES:

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

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

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

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

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| | | <i>Hyper Inverter</i> | |
|-------------------------------------|-------------------------|-------------------------------------|---|
| Set model name | | FDF140VNXPDV1 | FDF140VSPVD1 |
| | | Twin | |
| Indoor unit | | FDF71VD1 | FDF71VD1 |
| Outdoor unit | | FDC140VNX | FDC140VSX |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | 3 Phase 380-415V, 50Hz / 380V 60Hz |
| Nominal cooling capacity (Min~Max) | kW | 14.0 (5.0 ~ 16.0) | 14.0 (5.0 ~ 16.0) |
| Nominal heating capacity (Min~Max) | kW | 16.0 (4.0 ~ 18.0) | 16.0 (4.0 ~ 20.0) |
| Power consumption | Cooling/Heating kW | 4.83 / 4.97 | 4.83/ 4.97 |
| EER/COP | Cooling/Heating | 2.90 / 3.22 | 2.90 / 3.22 |
| Inrush current | A | 5 | 5 |
| Max. current | | 26 | 15 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 61 / 61 |
| | Outdoor | Cooling/Heating | 72 / 72 |
| Sound pressure level*1 ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | 39 / 35 / 33 |
| | | Heating (Hi/Me/Lo) | 39 / 35 / 33 |
| | Outdoor | Cooling/Heating | 49 / 52 |
| | | Cooling/Heating | 49 / 52 |
| Air flow ※1 | Indoor*2 | Cooling (Hi/Me/Lo) | 16 / 14 / 12 |
| | | Heating (Hi/Me/Lo) | 16 / 14 / 12 |
| | Outdoor | Cooling/Heating | 100 / 100 |
| Exterior dimensions | Indoor | HeightxWidthxDPTH | 1,850 x 600 x 320 |
| | Outdoor | HeightxWidthxDPTH | 1,300 x 970 x 370 |
| Net weight | Indoor | kg | 49 |
| | Outdoor | kg | 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 | °C | -20~20 |
| Air filter, Q'ty | | | Plastic net x 1(washable) |
| Remote control | | | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) |

| | | <i>Micro Inverter</i> | | | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|---------------------|-------------------------------------|---------------------|---------------------|
| Set model name | | FDF100VNVD2 | FDF125VNVD | FDF140VNVD | FDF100VSDV2 | FDF125VSVD | FDF140VSVD |
| Indoor unit | | FDF100VD2 | FDF125VD | FDF140VD | FDF100VD2 | FDF125VD | FDF140VD |
| Outdoor unit | | FDC100VN | FDC125VN | FDC140VN | FDC100VS | FDC125VS | FDC140VS |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | | |
| Nominal cooling capacity (Min~Max) | kW | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) | 10.0 (4.0 ~ 11.2) | 12.5 (5.0 ~ 14.0) | 14.0 (5.0 ~ 14.5) |
| Nominal heating capacity (Min~Max) | kW | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) | 11.2 (4.0 ~ 12.5) | 14.0 (4.0 ~ 16.0) | 16.0 (4.0 ~ 16.5) |
| Power consumption | Cooling/Heating kW | 3.12 / 3.10 | 4.40 / 4.36 | 5.15 / 5.31 | 3.12 / 3.10 | 4.40 / 4.36 | 5.15 / 5.31 |
| EER/COP | Cooling/Heating | 3.21 / 3.61 | 2.84 / 3.21 | 2.72 / 3.01 | 3.21 / 3.61 | 2.84 / 3.21 | 2.72 / 3.01 |
| Inrush current | A | 5 | 5 | 5 | 5 | 5 | 5 |
| Max. current | | 24 | 24 | 24 | 15 | 15 | 15 |
| Sound power level*1 | Indoor | Cooling/Heating | 65 / 65 | 73 / 73 | 73 / 73 | 65 / 65 | 73 / 73 |
| | Outdoor | Cooling/Heating | 70 / 70 | 72 / 72 | 73 / 73 | 70 / 70 | 73 / 73 |
| Sound pressure level*1 ※1 | Indoor | Cooling (Hi/Me/Lo) | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 |
| | | Heating (Hi/Me/Lo) | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 | 50 / 48 / 44 |
| | Outdoor | Cooling/Heating | 49 / 49 | 50 / 51 | 51 / 51 | 49 / 49 | 50 / 51 |
| | | Cooling/Heating | 49 / 49 | 50 / 51 | 51 / 51 | 49 / 49 | 50 / 51 |
| Air flow ※1 | Indoor | Cooling (Hi/Me/Lo) | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 |
| | | Heating (Hi/Me/Lo) | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 | 26 / 23 / 19 |
| | Outdoor | Cooling/Heating | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 | 75 / 73 |
| Exterior dimensions | Indoor | HeightxWidthxDPTH | 1,850 x 600 x 320 | | | | |
| | Outdoor | HeightxWidthxDPTH | 845 x 970 x 370 | | | | |
| Net weight | Indoor | kg | 52 | | | | |
| | Outdoor | kg | 81 | | | | 83 |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | | | |
| Refrigerant line (one way) length | | m | Max.50 | | | | |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 | | | | |
| Outdoor operating temperature range | Cooling | °C | -15~43*3 | | | | |
| | Heating | °C | -20~20 | | | | |
| Air filter, Q'ty | | | Plastic net x 1(Washable) | | | | |
| Remote control | | | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) | | | | |

※1 Powerful-Hi can be selected.

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

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

NOTES:

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

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

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

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

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

SPECIFICATIONS

The values are for simultaneous Multi operation.

| Set model name | | Micro Inverter | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|-------------------------------------|--------------------------|
| | | fdf140VNPVD1 | fdf140VSPVD1 | fdf200VSAPVD2 | fdf250VSAPVD |
| Indoor unit | | FDF71VD1 | FDF71VD1 | FDF100VD2 | FDF125VD |
| Outdoor unit | | FDC140VN | FDC140VS | FDC200VSA | FDC250VSA |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | 3 Phase 380-415V, 50Hz / 380V, 60Hz | |
| Nominal cooling capacity (Min~Max) | kW | 14.0 (5.0 ~ 14.5) | 14.0 (5.0 ~ 14.5) | 19.0 (5.2 ~ 22.4) | 24.0 (6.9 ~ 28.0) |
| Nominal heating capacity (Min~Max) | kW | 16.0 (4.0 ~ 16.5) | 16.0 (4.0 ~ 16.5) | 22.4 (3.3 ~ 25.0) | 27.0 (5.5 ~ 31.5) |
| Power consumption | Cooling/Heating kW | 5.16 / 5.01 | 5.16 / 5.01 | 6.74 / 6.42 | 9.15 / 8.49 |
| EER/COP | Cooling/Heating | 2.71 / 3.19 | 2.71 / 3.19 | 2.82 / 3.49 | 2.62 / 3.18 |
| Inrush current | | 5 | 5 | 5 | 5 |
| Max. current | | 24 | 15 | 20 | 21 |
| Sound power level*1 | Indoor*2 | Cooling/Heating | 61 / 61 | 61 / 61 | 65 / 65 |
| | Outdoor | Cooling/Heating | 73 / 73 | 73 / 73 | 72 / 74 |
| Sound pressure level*1 **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 39 / 35 / 33 | 39 / 35 / 33 | 50 / 48 / 44 |
| | Outdoor | Cooling/Heating | 39 / 35 / 33 | 39 / 35 / 33 | 50 / 48 / 44 |
| Air flow **2 | Indoor*2 | Cooling (Hi/Me/Lo) | 16 / 14 / 12 | 16 / 14 / 12 | 26 / 23 / 19 |
| | Outdoor | Cooling/Heating | 16 / 14 / 12 | 16 / 14 / 12 | 26 / 23 / 19 |
| Exterior dimensions | Indoor | HeightxWidthxDepth | 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 | | 49 | | 52 |
| | Outdoor | | 81 | 83 | 115 |
| Ref.piping size | Liquid/Gas | ømm | 9.52(3/8") / 15.88(5/8") | | 9.52(3/8") / 22.22(7/8") |
| Refrigerant line (one way) length | | m | Max.50 | | Max.70 |
| Vertical height differences | Outdoor is higher/lower | m | Max.30 / Max.15 | | |
| Outdoor operating temperature range | Cooling | °C | -15~43*3 | | -15~50*3 |
| | Heating | | -20~20 | | -15~20 |
| Air filter, Q'ty | | | Plastic net x 1 (washable) | | |
| Remote control | | | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) | | |

| Set model name | | Standard Inverter | | | |
|-------------------------------------|-------------------------|-------------------------------------|---|----------------------|--|
| | | fdf71VNPVD1 | fdf90VNPVD2 | fdf100VNP1VD2 | |
| Indoor unit | | FDF71VD1 | FDF100VD2 | FDF100VD2 | |
| Outdoor unit | | FDC71VNP | FDC90VNP | FDC100VNP | |
| Power source | | 1 Phase 220-240V, 50Hz / 220V, 60Hz | | | |
| Nominal cooling capacity (Min~Max) | kW | 7.1 (1.4 ~ 7.1) | 9.0 (1.9 ~ 9.0) | 10.0 (2.8 ~ 11.2) | |
| Nominal heating capacity (Min~Max) | kW | 7.1 (1.0 ~ 7.1) | 9.0 (1.5 ~ 9.0) | 11.2 (2.5 ~ 12.5) | |
| Power consumption | Cooling/Heating kW | 2.63 / 2.08 | 2.79 / 2.25 | 3.19 / 3.09 | |
| EER/COP | Cooling/Heating | 2.70 / 3.41 | 3.23 / 4.00 | 3.13 / 3.62 | |
| Inrush current | | 5 | 5 | 5 | |
| Max. current | | 14.5 | 18.0 | 21.0 | |
| Sound power level*1 | Indoor | Cooling/Heating | 61 / 61 | 65 / 65 | |
| | Outdoor | Cooling/Heating | 67 / 67 | 69 / 69 | |
| Sound pressure level*1 **2 | Indoor | Cooling (Hi/Me/Lo) | 39 / 35 / 33 | 50 / 48 / 44 | |
| | Outdoor | Cooling/Heating | 39 / 35 / 33 | 50 / 48 / 44 | |
| Air flow **2 | Indoor | Cooling (Hi/Me/Lo) | 18 / 16 / 14 | 26 / 23 / 19 | |
| | Outdoor | Cooling/Heating | 18 / 16 / 14 | 26 / 23 / 19 | |
| Exterior dimensions | Indoor | HeightxWidthxDepth | 1,850 x 600 x 320 | | |
| | Outdoor | | 640 x 800(+71) x 290 | 750 x 880(+88) x 340 | |
| Net weight | Indoor | | 49 | | |
| | Outdoor | | 45 | 57 | |
| Ref.piping size | Liquid/Gas | ømm | 6.35(1/4") / 12.7(1/2") | | |
| Refrigerant line (one way) length | | m | Max.23 | | |
| Vertical height differences | Outdoor is higher/lower | m | Max.20 / Max.20 | | |
| Outdoor operating temperature range | Cooling | °C | -15~46*3 | | |
| | Heating | | -15~20 | | |
| Air filter, Q'ty | | | Plastic net x1 (Washable) | | |
| Remote control | | | wired:RC-E5 (installed) wireless:RCN-KIT4-E2 (option) | | |

**2 Powerful-Hi can be selected.

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

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

CONTROL SYSTEMS

Remote Control line up

| wired | | indoor unit | remote control | wireless | | indoor unit | remote control | indoor unit | remote control |
|-------|--|-------------|----------------|----------|-----|---------------|----------------|--------------|----------------|
| | | | RC-EX3 | | FDT | RCN-T-5AW-E2 | FDE | FDU,FDUM,PDF | RCN-E-E2 |
| | | | RC-E5 | | | | | | |
| | | | RCH-E3 | | | | | | |
| | | | | | FDT | RCN-TC-24W-E2 | | | RCN-KIT4-E2 |

Wired remote control (option)

RC-EX3

Easy touch and Easy view with full dot Liquid Crystal display

User friendly

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

NEW

Operation mode setting screen

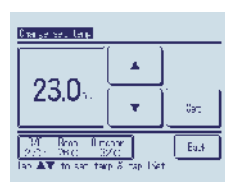


The desired operation mode can be selected by simply tapping this button.

Easy view

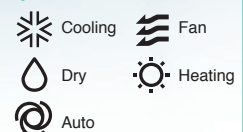
- Big LCD with 3.8 inch full dot display
- Back light function
- Multi language display (12 languages)

Setting temperature screen



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

Operation mode



Run / Stop

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 selectable range of setting time is from 30 to 240 minutes (at 10-minute intervals). |
| | Set temperature auto return | The temperature automatically returns to the previously set temperature. |
| | Set ON timer by hour | When the set time elapses, the air conditioner starts. |
| | Set OFF timer by hour | When the set time elapses, the air conditioner stops. |
| | Set ON timer by clock | The air conditioner starts at the set time. |
| | Set OFF timer by clock | The air conditioner stops at the set time. |
| | Weekly timer | On or Off timer can be set on a weekly basis. |
| | Peak-cut timer | Capacity control can be set by using peak cut function on RC-EX3 for better energy saving. Five-step capacity control is available. |
| | Home leave operation | When the unit is not used for a long period of time, the room temperature is maintained at a moderate level, avoiding extremely hot or cool temperatures. |
| Comfort | Big LCD & Touch screen panel | Large 3.8 inch screen has resulted in improved visibility and operability. |
| | Easy modification of Individual flap control NEW | User can visually confirm and set the direction of louvers using the visual display on the remotecontroller. |
| | Automatic fan speed *1 | The micro-computer automatically adjusts the airflow effectively to follow the changes of return air temperature. |
| | Temp increment setting | Temperature increment for the change of the set temp can be changed. |
| | Silent mode | Set the period of time to operate the Outdoor unit with prioritizing the quietness. |
| Convenience | Function switch *1 NEW | The function switch allows user to select and set two functions among six available functions . |
| | Favorite setting *1 NEW | Operation mode, set temperature, fan speed and air flow direction automatically adjust to the programmed favorite setting. |
| | Adjusting Brightness of the operation lamp NEW | The brightness of the background light can be adjusted by 10 stages. |
| | LCD contrast setting NEW | 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 NEW | 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. | |

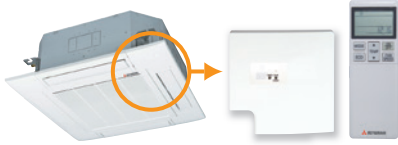
*1 Cannot be used when a centralized control remote is connected.

Wireless remote control (option)

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

NEW

RCN-T-5AW-E2



RCN-TC-24W-E2



RCN-KIT4-E2



RCN-E-E2



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

Wired remote control (option)

RC-E5

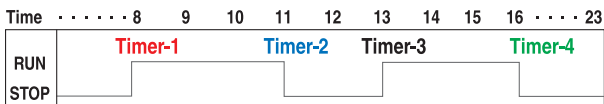


The RC-E5 control enables extensive access to service and maintenance technical data combined with easy to use functions and a clear LCD display.

Weekly timer function as standard

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

Timer operation

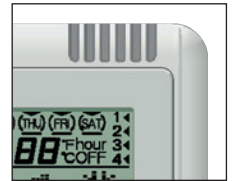


Run hour meters to facilitate maintenance checking

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

Room temperature controlled by the remote control sensor

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



Changeable set temperature ranges

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

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

Simple remote control (option)

RCH-E3 (wired)



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

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

Up to 16 units

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

AUTO restart

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

Thermistor (option)

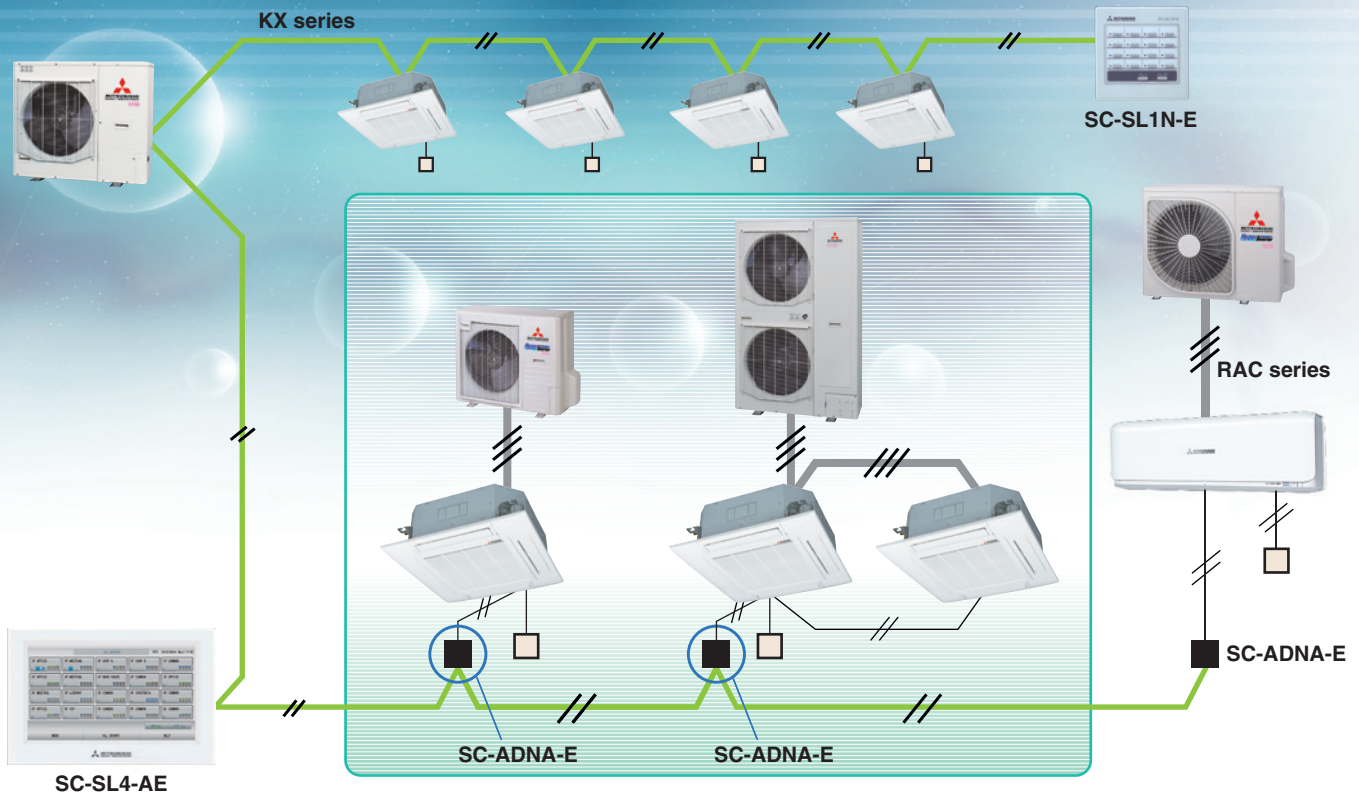
SC-THB-E3

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



CONTROL SYSTEMS

SUPERLINK-II



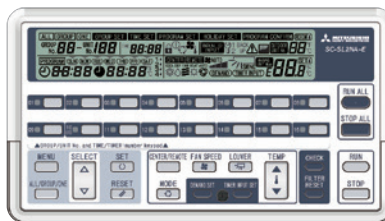
Central Control

SC-SL1N-E



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

SC-SL2NA-E



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

SC-SL4-AE/BE



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

Building Management Systems

NEW

SC-WBGW256* (Web gateway / BACnet gateway)

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



Production by order

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

NEW

SC-LGWNB* (LonWorks gateway)



Production by order

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

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

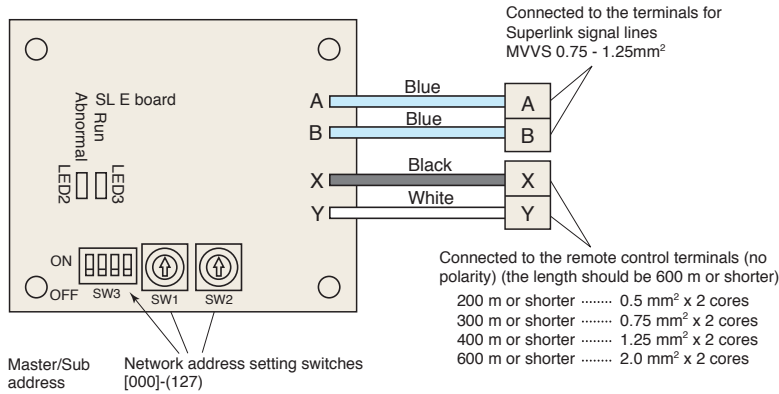
SUPERLINK E BOARD (SC-ADNA-E)

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

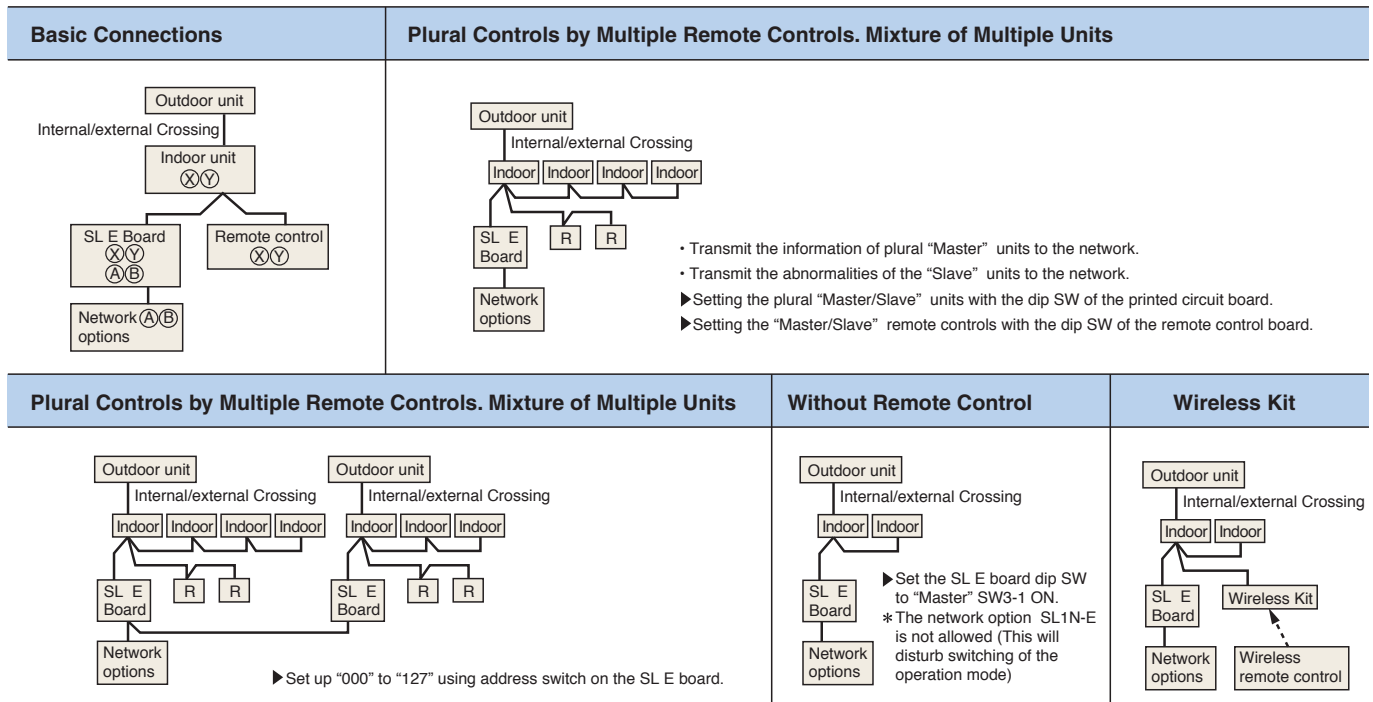
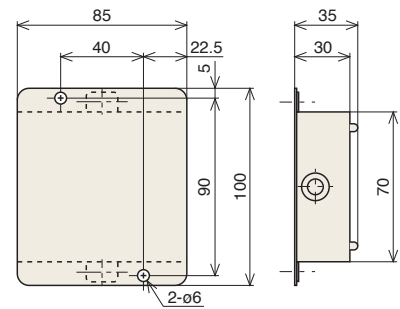
(1) Functions

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

(2) Wiring connection diagram

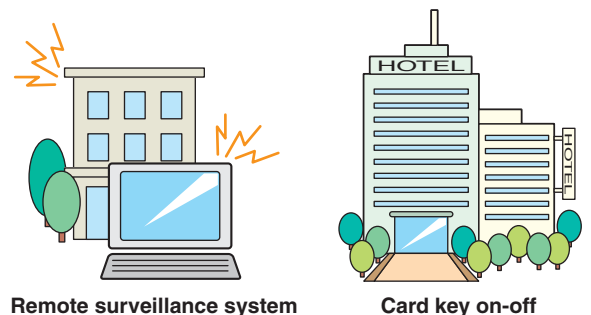


(3) Metal box dimension (unit:mm)



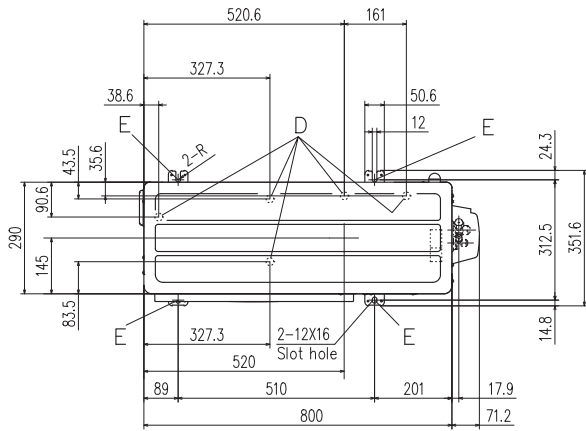
External switch connection CNT, CNTA

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



OUTDOOR UNIT DIMENSIONS (unit:mm)

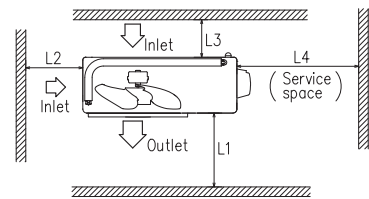
SRC40ZSX-S, 50ZSX-S, 60ZSX-S



| 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 | φ20x5places |
| E | Anchor bolt hole | M10-12x4places |

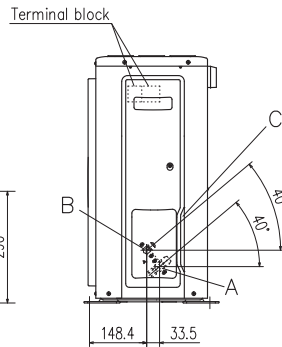
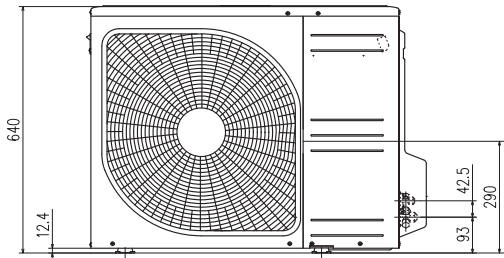
Notes

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



Minimum installation space

| Examples of installation | 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 |

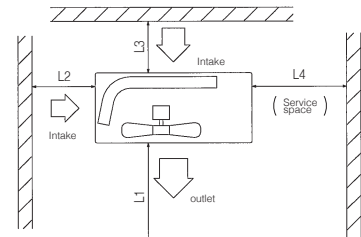
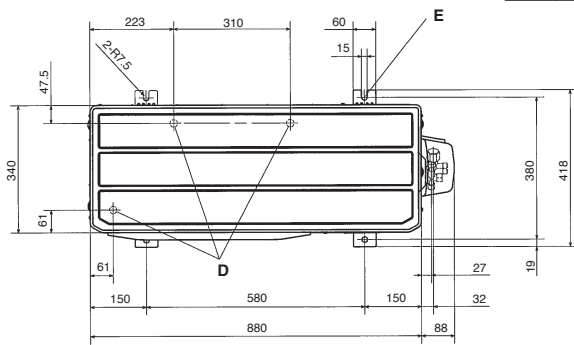


FDC71VNX

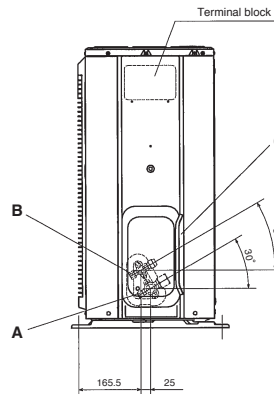
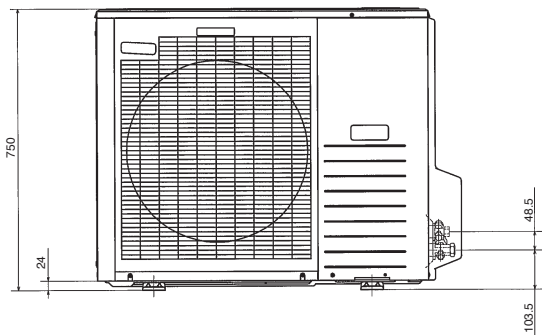
| Mark | Item | |
|------|--|----------------------|
| A | Service valve connection (gas side) | φ15.88(5/8") (Flare) |
| B | Service valve connection (liquid side) | φ9.52(3/8") (Flare) |
| C | Pipe/cable draw-out hole | |
| D | Drain discharge hole | φ20x3places |
| E | Anchor bolt hole | M10x4places |

Notes:

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

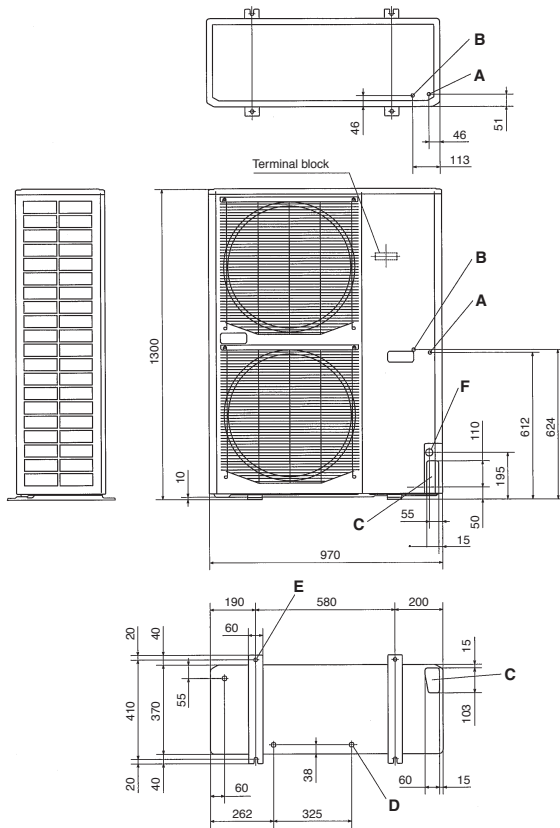


Minimum installation space



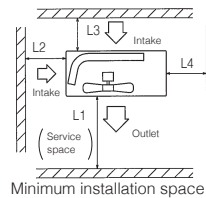
| Examples of installation | Dimensions | | |
|--------------------------|------------|------|------|
| | 1 | 2 | 3 |
| L1 | Open | Open | 500 |
| L2 | 300 | 250 | Open |
| L3 | 100 | 150 | 100 |
| L4 | 250 | 250 | 250 |

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



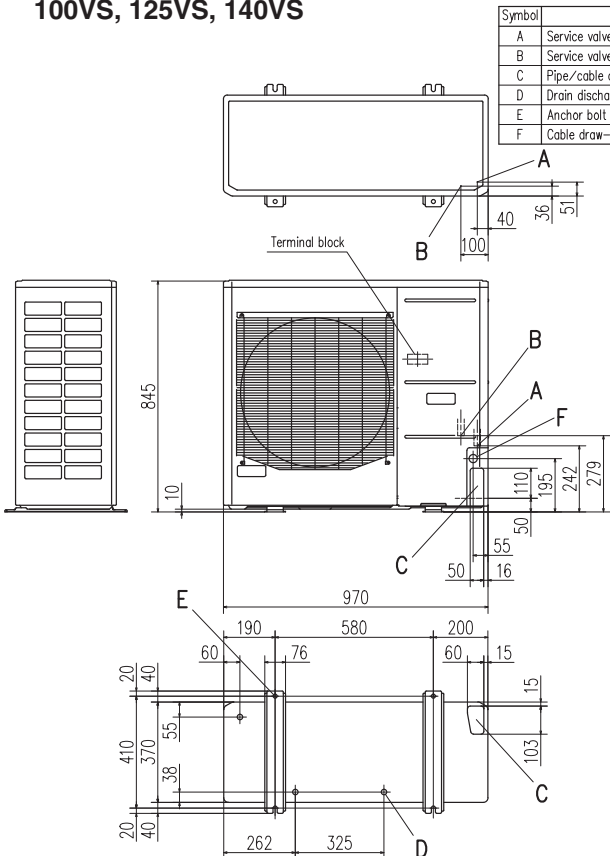
| Mark | Item | |
|------|--|--------------------------------------|
| A | Service valve connection of the attached connecting pipe(gas side) | ø15.88(5/8") (Flare) |
| B | Service valve connection(liquid side) | ø9.52(3/8") (Flare) |
| C | Pipe/cable draw-out hole | |
| D | Drain discharge hole | ø20x3places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

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



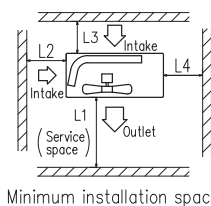
| Examples of installation | 1 | 2 | 3 |
|--------------------------|------|------|------|
| L1 | Open | Open | 500 |
| L2 | 300 | 5 | Open |
| L3 | 150 | 300 | 150 |
| L4 | 5 | 5 | 5 |

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



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

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

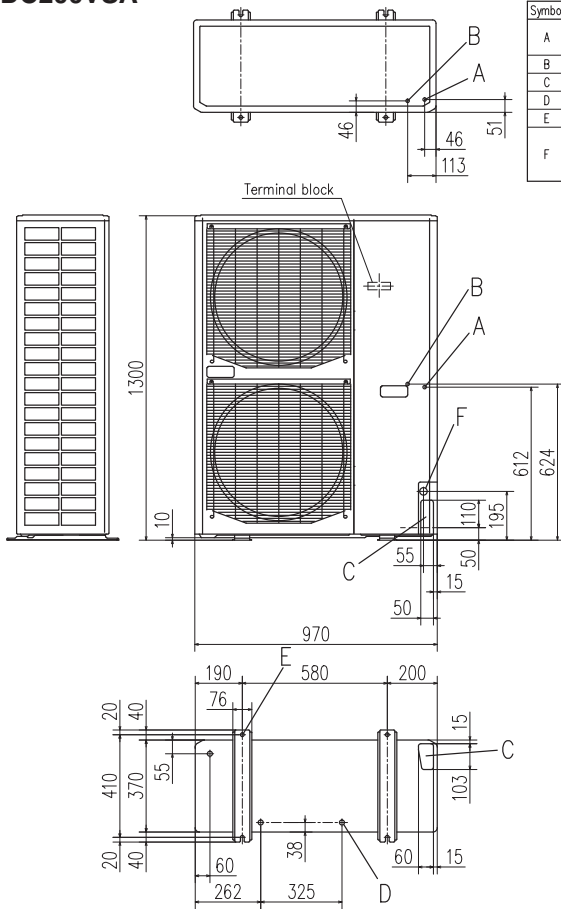


| Examples of installation | I | II | III |
|--------------------------|------|------|------|
| L1 | Open | Open | 500 |
| L2 | 300 | 5 | Open |
| L3 | 150 | 300 | 150 |
| L4 | 5 | 5 | 5 |

Unit:mm

OUTDOOR UNIT DIMENSIONS (unit:mm)

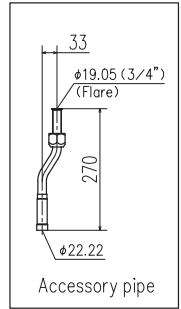
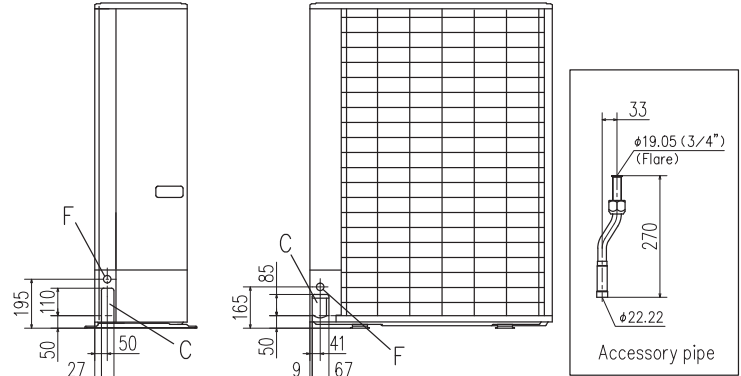
FDC200VSA



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

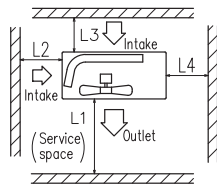
Notes

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



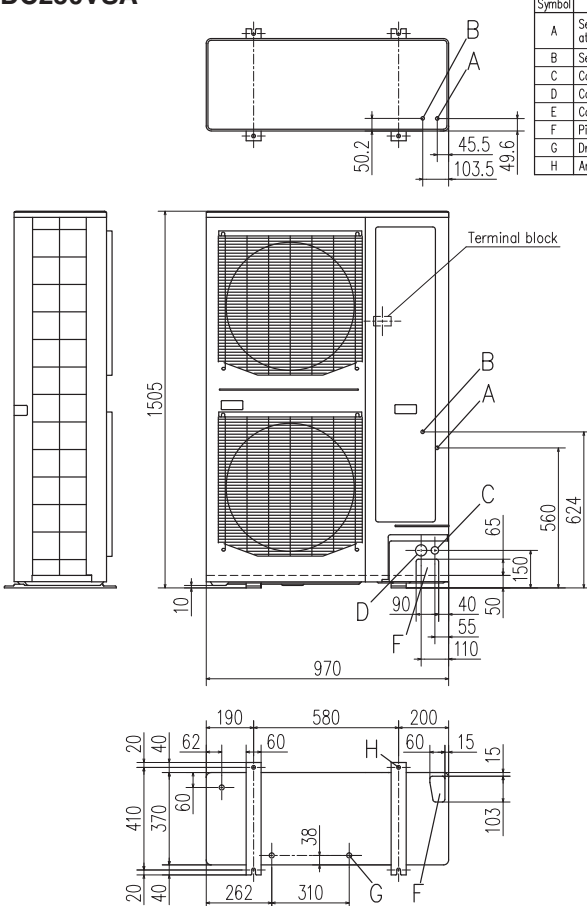
Unit: mm

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



Minimum installation space

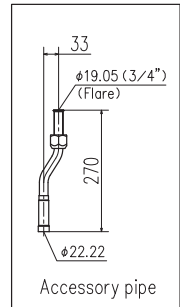
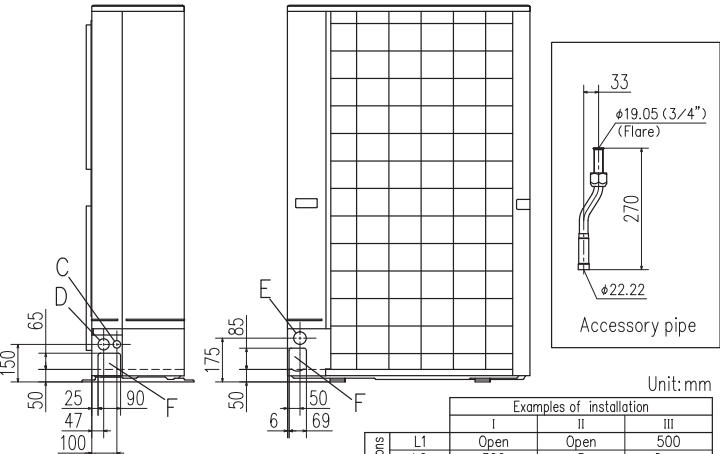
FDC250VSA



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

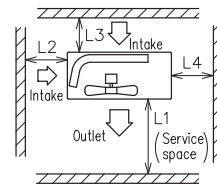
Notes

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



Unit: mm

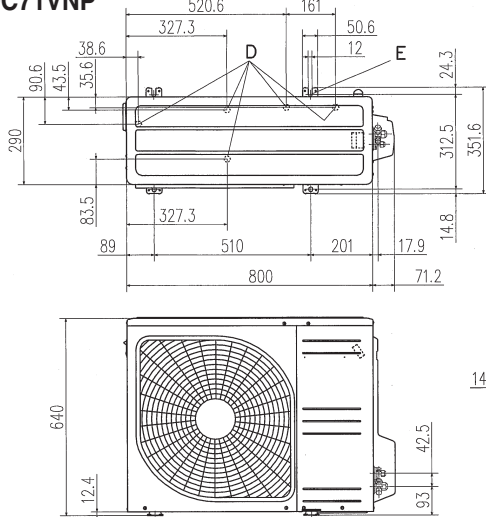
| | | Examples of installation | | |
|------------|----|--------------------------|------------|------------|
| | | I | II | III |
| Dimensions | L1 | Open | Open | 500 |
| | L2 | 300 | 5 | Open |
| | L3 | 150 | 300 | 150 |
| | L4 | 250 (5) *1 | 250 (5) *1 | 250 (5) *1 |



Minimum installation space

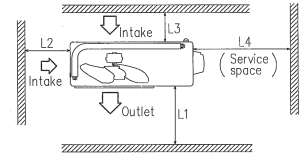
*1 At the time of the installation at () dimension, Secure space of 250mm in lateral (L4) by unit movement at the time of the exchange work of the compressor.

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 | φ20x3places |
| E | Anchor bolt hole | M10x4places |

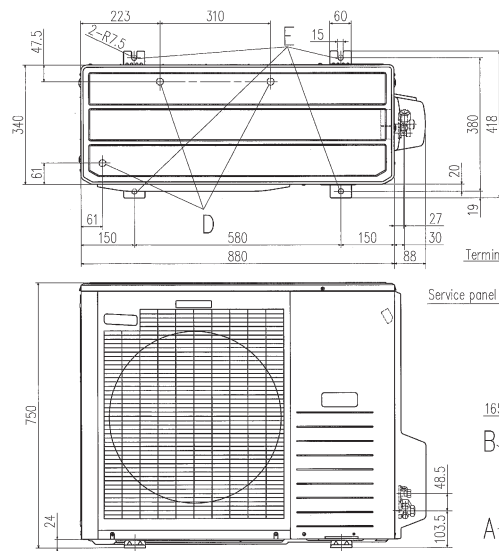
- Notes
- (1) It must not be surrounded by walls on the four sides.
 - (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
 - (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant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



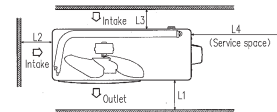
Minimum installation space

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

FDC90VNP



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

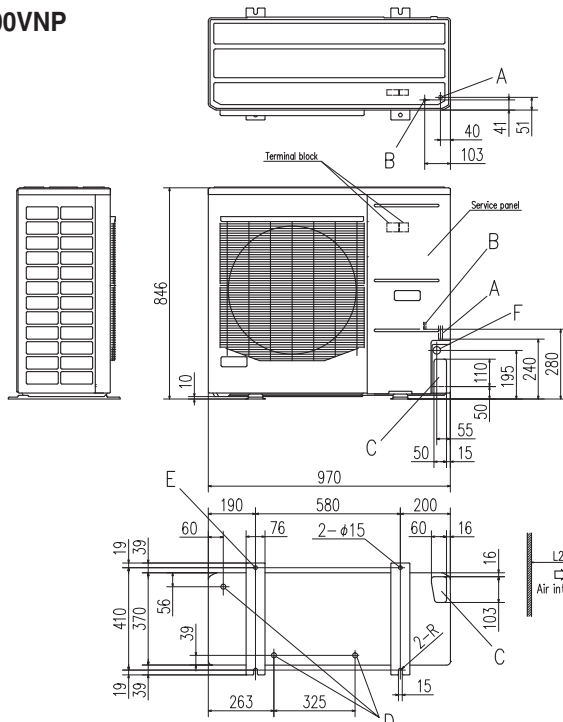


Minimum installation space

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

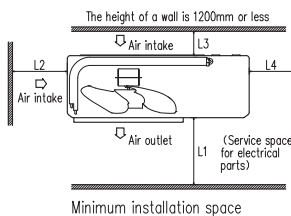
| Symbol | Content | |
|--------|--|-----------------------|
| A | Service valve connection (gas side) | φ15.88 (5/8") (Flare) |
| B | Service valve connection (liquid side) | φ6.35 (1/4") (Flare) |
| C | Pipe/cable draw-out hole | |
| D | Drain discharge hole | φ20 x 3 places |
| E | Anchor bolt hole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

FDC100VNP



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

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



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

Unit: mm

ENERGY LABEL [FOR EU/EEA AREA ONLY]

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

ENERGY LABEL

SEER and SCOP is defined in European regulations listed below.

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

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

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

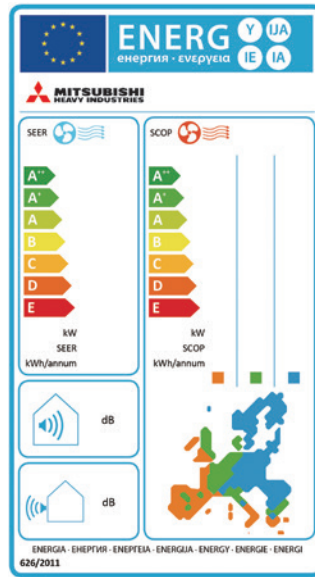
Set by the EU's new regulation implementing Eco-Design Directive for Energy Related Product (ErP) which specifies the minimum efficiency of air-conditioners manufacturers must integrate into their products.

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

SEER - Seasonal Efficiency Ratio (value in cooling)

SCOP - Seasonal Coefficient of Performance (value in heating)

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



Employment of lead-free solder

Adapted to RoHS directive

RoHS:Restriction of Hazardous substances

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

Employment of R410A

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

Excellent Energy Saving

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

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

| Indoor unit | | FDT100VG | FDT100VG | FDT50VGx2 | FDT50VGx2 | FDT71VG | FDT100VG | FDT100VG | FDT40VF | FDT50VF |
|--|------------------------------|-----------|----------|-----------|-----------|-----------|----------|-----------|------------|------------|
| Outdoor unit | | FDC100VN | FDC100VS | FDC100VN | FDC100VS | FDC71VNP | FDC90VNP | FDC100VNP | SRC40ZSX-S | SRC50ZSX-S |
| Energy class (cooling/heating) | | A+/A+ | A+/A+ | A+/A+ | A+/A+ | A++/A+ | A++/A+ | A+/A+ | A+/A+ | A+/A+ |
| SEER | | 5.61 | 5.61 | 5.90 | 5.90 | 6.14 | 6.78 | 6.78 | 6.53 | 6.01 |
| SCOP (Average climate) | | 4.10 | 4.10 | 4.00 | 4.00 | 4.27 | 4.12 | 4.53 | 3.96 | 3.85 |
| Pdesignc | kW | 10.0 | 10.0 | 10.0 | 10.0 | 7.1 | 9.0 | 10.0 | 4.0 | 5.0 |
| Pdesignh (@-10°C) | kW | 7.9 | 7.9 | 7.9 | 7.9 | 5.7 | 8.1 | 8.1 | 4.0 | 4.8 |
| Annual electricity consumption (cooling/heating) | kWh/a | 625/2699 | 625/2699 | 593/2765 | 593/2765 | 405/1870 | 465/2756 | 517/2505 | 215/1416 | 291/1745 |
| Refrigerant (R410A) | GWP | 2088 | | | | | | | | |
| | charge kg/TCO ₂ e | 3.8/7.934 | | | | 1.6/3.341 | | 2.1/4.385 | 2.55/5.324 | |
| Designated heating season | | Average | | | | | | | | |

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

| Indoor unit | FDU100VF2 | FDU100VF2 | FDU171VF1 | FDU100VF2 | FDU100VF2 | FDM40VF | FDM50VF | FDM60VF | FDM71VF1 | |
|--|------------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|----------|------------|
| Outdoor unit | FDC100VN | FDC100VS | FDC71VNP | FDC90VNP | FDC100VNP | SRC40ZSX-S | SRC50ZSX-S | SRC60ZSX-S | FDC71VNX | |
| Energy class (cooling/heating) | B/A | B/A | A+/A+ | A++/A+ | A++/A+ | A+/A+ | A+/A+ | A++/A+ | A/A | |
| SEER | 5.06 | 5.03 | 5.71 | 6.86 | 6.36 | 6.01 | 5.68 | 6.42 | 5.24 | |
| SCOP (Average climate) | 3.94 | 3.94 | 4.00 | 4.20 | 4.13 | 4.15 | 4.36 | 4.37 | 3.90 | |
| Pdesignc | kW | 10.0 | 10.0 | 7.1 | 9.0 | 10.0 | 4.0 | 5.0 | 5.6 | 7.1 |
| Pdesignh (@-10°C) | kW | 9.3 | 9.3 | 5.7 | 8.1 | 8.1 | 3.5 | 4.3 | 5.4 | 7.0 |
| Annual electricity consumption (cooling/heating) | kWh/a | 692/3303 | 696/3307 | 436/1996 | 459/2703 | 551/2746 | 233/1182 | 309/1382 | 306/1731 | 475/2513 |
| Refrigerant (R410A) | GWP | 2088 | | | | | | | | |
| | charge kg/TCO ₂ e | 3.8/7.934 | | 1.6/3.341 | 2.1/4.385 | 2.55/5.324 | | 1.5/3.132 | | 2.95/6.160 |
| Designated heating season | Average | | | | | | | | | |

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

| Indoor unit | FDM71VF1 | FDM100VF2 | FDM100VF2 | SRK100Z-S | SRK50ZSX-Sx2 | SRK50ZSX-Sx2 | SRK50ZSX-Sx2 | SRK50ZSX-Sx2 | |
|--|------------------------------|-----------|-----------|------------|--------------|--------------|--------------|--------------|----------|
| Outdoor unit | FDC71VNP | FDC90VNP | FDC100VNP | FDC100VNP | FDC100VNX | FDC100VSX | FDC100VN | FDC100VS | |
| Energy class (cooling/heating) | A+/A+ | A++/A+ | A++/A+ | A++/A+ | A++/A+ | A++/A+ | A+/A+ | A+/A+ | |
| SEER | 5.71 | 6.86 | 6.36 | 6.60 | 6.11 | 6.11 | 5.61 | 5.61 | |
| SCOP (Average climate) | 4.00 | 4.20 | 4.13 | 4.40 | 4.16 | 4.16 | 4.00 | 4.00 | |
| Pdesignc | kW | 7.1 | 9.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | |
| Pdesignh (@-10°C) | kW | 5.7 | 8.1 | 8.1 | 7.2 | 10.4 | 10.4 | 7.7 | |
| Annual electricity consumption (cooling/heating) | kWh/a | 436/1996 | 459/2703 | 551/2746 | 531/2289 | 574/3504 | 574/3504 | 624/2697 | 624/2697 |
| Refrigerant (R410A) | GWP | 2088 | | | | | | | |
| | charge kg/TCO ₂ e | 1.6/3.341 | 2.1/4.385 | 2.55/5.324 | 2.55/5.324 | 4.5/9.396 | | 3.8/7.934 | |
| Designated heating season | Average | | | | | | | | |

| Indoor unit | FDE40VG | FDE50VG | FDE60VG | FDE71VG | FDE100VG | FDE100VG | FDE40VGx2 | FDE50VGx2 | FDE50VGx2 | |
|--|------------|------------|------------|------------|-----------|-----------|-----------|------------|-----------|-----------|
| Outdoor unit | SRC40ZSX-S | SRC50ZSX-S | SRC60ZSX-S | FDC71VNX | FDC100VNX | FDC100VSX | FDC71VNX | FDC100VNX | FDC100VSX | |
| Energy class (cooling/heating) | A+/A | A++/A | A++/A+ | B/A+ | A+/A+ | A+/A+ | A+/A+ | A/A | A/A | |
| SEER | 6.46 | 6.10 | 6.72 | 4.87 | 5.89 | 5.84 | 5.26 | 5.53 | 5.49 | |
| SCOP (Average climate) | 3.93 | 3.92 | 4.08 | 4.00 | 4.18 | 4.17 | 4.09 | 3.94 | 3.94 | |
| Pdesignc | kW | 4.0 | 5.0 | 5.6 | 7.1 | 10.0 | 7.1 | 10.0 | 10.0 | |
| Pdesignh (@-10°C) | kW | 3.0 | 3.8 | 4.3 | 6.0 | 11.2 | 11.2 | 6.0 | 10.8 | |
| Annual electricity consumption (cooling/heating) | kWh/a | 217/1069 | 288/1358 | 292/1475 | 511/2102 | 595/3754 | 599/3758 | 473/2054 | 634/3836 | 638/3840 |
| Refrigerant (GWP) | 2088 | | | | | | | | | |
| | 1.5/3.132 | | | 2.95/6.160 | | 4.5/9.396 | | 2.95/6.160 | | 4.5/9.396 |
| Designated heating season | Average | | | | | | | | | |

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

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

Before starting use

Heating performance

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

Indication of sound values

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

Use in oil atmosphere

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

Use in acidic or alkaline atmosphere

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

Use in places with high ceilings

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

Refrigerant leakage

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

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

Use in snowy areas

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

•Snow prevention

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

•Snow piling

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

Automatic defrosting device

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

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

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

Servicing the air-conditioner

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

⚠ Safety Precautions

Air-conditioner usage target

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

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

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

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

Before use

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

Installation

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

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

Usage place

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

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



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

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

Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001



Certificate Number : JGA-0709



Certificate: 34176 1999 0813



Certificate Number : 5170-1996-AQ-RCG-RuA

Certified ISO 14001



ISO 14001



Certificate: 34176 1998 0813 03



Certificate number : 01-1998-083

