



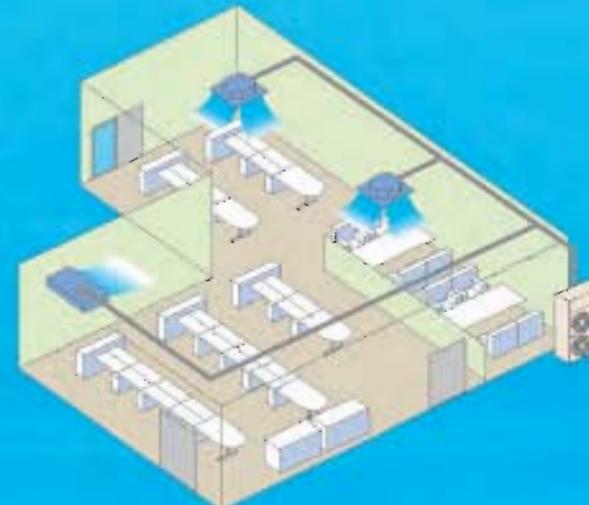
Our Technologies, Your Tomorrow



SCM Multi System
V Multi System

Eco-lution

High Performance Air-Conditioning



Our factories are ISO9001 and ISO14001 certified.

Certified ISO 9001



Certified ISO 14001



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Air-Conditioning & Refrigeration Systems Headquarters
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INVERTER MULTI SYSTEM
Residential & Packaged Air Conditioners

50Hz



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Product Line Up

Model		Capacity Range (kW : Rated cooling capacity)									Page
		kW	2.5	3.5	4.5	5.0	6.0	7.1	8.0	12.5	
HEATPUMP DC INVERTER Multi	SRK-ZJ	*									13
	FDTC-VF	*									13
	SRR-ZJ	*									14
	FDUM-VF										14
	FDEN-VF										15
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Capacity Range (kW : Rated cooling capacity)

	2.5	3.5	4.5	5.0	6.0	7.1	8.0	12.5
Btu/h	9,000	12,000	15,354	17,060	20,472	24,225	27,296	42,650

SRK: Wall Mounted type, SRR: Ceiling Concealed type, FDTC: 4way Ceiling Cassette type, SRF: Floor Standing type, FDEN: Ceiling Suspended type, FDUM: Duct Connected type.

Inverter Multi-split System

The multi-split system allows a single outdoor unit to service a range of configurations of up to six indoor unit --- from a lineup of 8 units ranging from 6.0kW to 19.5kW.



Functions

Airflow

Clean Operation / Filter

Allergen Clear System
The system is equipped to suppress the influence of the allergen caught by the filter by controlled the temperature and humidity.

Self Clean Operation
The operation is operated for 2 hours after the unit has stopped its normal operation. The indoor unit is dried up and growth of mold is restrained.

Allergen Clear Filter
The filter breaks down the pollen, lice, and all allergens that live on cat skins, etc. and deactivates them.

Photocatalytic Washable Deodorizing Filter
It keeps air fresh by deodorizing the molecules causing odor. The deodorizing ability can be easily restored simply by cleaning and exposing to the sunlight.

Natural Enzyme Filter
Enzymes used in the filter are naturally occurring lytic enzymes which attack cell walls of microorganisms trapped on the filter and destroy them.

Comfortable Functions

Fuzzy Auto Mode
Automatically, the unit determines its operating mode and temperature setting based on a fuzzy calculation, and adjusts the inverter frequency.

Automatic Operation
The air conditioner automatically selects from among heating, cooling and dry operations.

"HI POWER" Operation
The unit can operate continuously in "HI POWER" mode for 15 minutes. This mode is convenient to reach the desired temperature quickly.

Three "Hot" System
This series offers three "hot" systems. "Hot start" allows the unit to begin operating immediately, while the "hot spurt" fast-heating system works to increase the temperature setting by two degrees. The "hot keep" system is used during automatic defrosting or to prevent the influx of cool air. These three operational control systems help ensure comfortable and efficient heating.

Comfortable Air Flow Functions

3D Auto
You can choose the best cooling or heating pattern by only pushing one button.

Air Scroll
The swing of the flap causes the air flow to spiral as it reaches the floor, and breeze reaches all of a room.

COOLING & DRY
Horizontal blowing
HEATING
Slant forward blowing

Up/Down Flap Swing
Flap moves up and down continuously. The Up/Down flap swing can be fixed at the preferred operation angle.

Right/Left Louver swing
Louver moves right and left continuously. The Right/Left louver swing can be fixed at the preferred operation angle.

Air Outlet Selection
Both lower and upper air outlets and upper air outlet can be selected.

Memory Flap
While the flap is swinging, it can be stopped at any angle desired. The flap returns to the position that it was in when operation last stopped.

Positioning of Installation
You can set the left-right air flow directions when you installed the air conditioner near the side wall by remote controller operation.

Convenience & Economy Functions

On Timer
This facility enables the operation to start a little earlier, so that the room approaches optimum temperature at ON time when the operation is started by ON-TIMER. Thus it will try to be at the temperature you want, when you want.

Economy Mode
The unit realizes effective energy saving operation, while still keeping a comfortable cooling and heating condition.

Dry Operation
The unit dehumidifies the room by intermittent cooling operation.

Off Timer
The unit stops automatically at the set time.

24-hour On/Off Programmable Timer
By combining a start timer with a stop timer, you can register two timer operations a day. Once set, timers will faithfully start or stop the system at a specified time of the day repeatedly.

Sleep Mode
The room temperature is automatically controlled during the set sleep mode period, ensuring that room temperature will not get too cold or too hot.

Maintenance & Prevention Functions

Microcomputer-Operated Defrosting
This mode automatically eliminates frost, and helps minimize excessive operation in other modes.

Self-Diagnostic Function
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.)

Detachable Indoor Air Inlet Panel
The air inlet panel on the indoor unit opens and closes easily, making filter cleaning simple. The suction panel can also be removed.

When removing the air inlet panel for internal cleaning or others, open the grill and then pull it to this side.

Others

Backup Switch
On the main unit, there is a backup on/off switch, which is useful when you can't use remote control, or batteries are flat.

Auto Restart Function
Power blackout auto restart function is a function that records the operational status of the air-conditioner immediately prior to it being switched off by a power cut, and then automatically resumes operations at that point after the power has been restored.

24-hour ION
Tourmaline-coated sheet generates negative ions around the clock. Even when the air conditioner is not running, it generates as many negative ions as a forest, stream or falls does, allowing you to experience them without incurring any electricity charges.

Luminous Button
With wireless "Luminous" remote controls that even "glow in the dark", it is possible to operate all desired functions of the unit with the click of a button.

3D AUTO Vertical + Horizontal AIR SCROLL

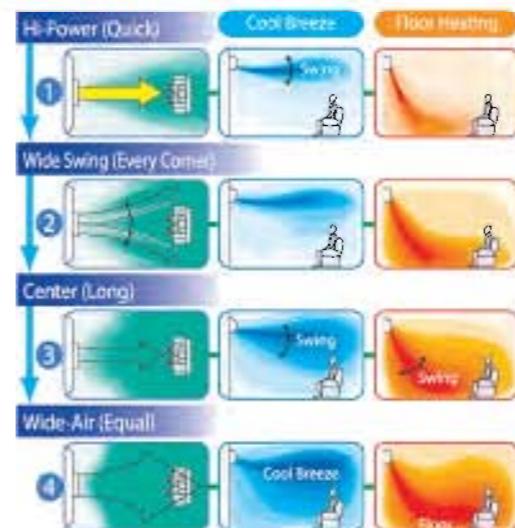


Applied models
SRK-ZJ
Manual Setting only

3D AUTO is one touch programmed and three motors (one vertical working motor + two horizontal working motors) make three independent air flow controls.

The uniform and quiet airflow can be delivered to every corner of the room, achieving economical operation and minimizing energy loss.

Programmed 3D AUTO



The airflow direction from the right and left louvers can be controlled individually. Eight different air flow patterns can be selected.

Thanks to automatic control of air flow volume and air flow direction, comfortable air conditioning of the entire room can be done effectively. The cooled air flows directly to the ceiling in cooling operation mode, not directly at the occupants of the room. Comfort cooled air flow comes via the ceiling like a cool breeze. In the heating mode, warm air flow can be sent down to the floor directly. The warm air then spreads along the floor achieving optimum comfort.

Aircraft technology was used in the design of the air conditioner's airflow system
Jet Air Scroll Long Reach & Silent Air Flow

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



Installation Positioning

The air flow direction can be set to suit your room's configuration.



New louver

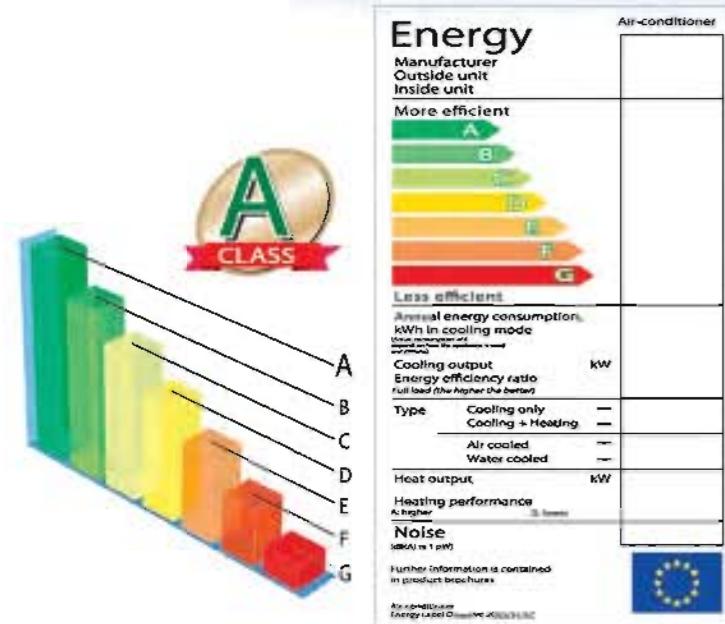
Our newly redesigned louver has 80% more surface area. Air flow direction can now be more targeted.



Consideration for the Environment

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

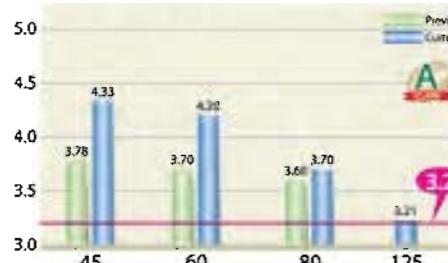
ENERGY LABEL "Class A"



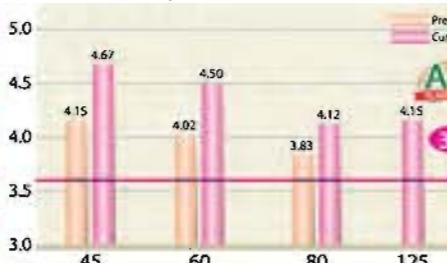
The industry's highest COP levels

Our new models, SCM45~125ZJ-S have realized the highest level of COP (coefficient of performance) in the industry with full model change to both of outdoor and indoor (SRK series) units. Outdoor unit uses new advanced compressors with new inverter control (Vector control) and new M shape fin. Indoor units SRK series are the latest series, which are common to both of single and multi system, using the new heat exchanger and improved air flow system.

EER In Cooling



COP in Heating



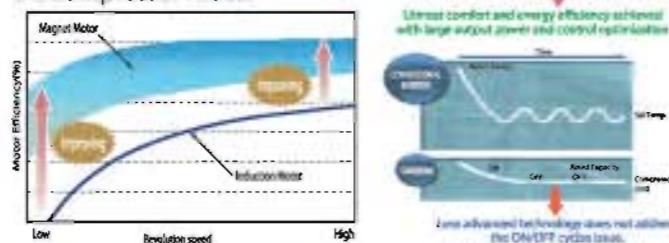
QUICK & HIGH EFFICIENCY Control DC PAM inverter

An inverter driven system has a number of performance advantages over a constant speed system. For example, its variable compressor outputs can ensure quick heating after a startup and attain a set temperature more quickly.

Then, the air conditioner can slow down its compressor speed to save energy, keeping comfortable conditions. Moreover, the compressor is DC driven, so it provides higher performance.



DC compressor motor



New Inverter Control (Vector control)

The new inverter control, with the advanced vector control technology, functions at high efficiency.

- Smooth operation from low speed to high speed
- Smooth Sine Voltage Wave form are attained
- Energy efficiency is further improved in low speed range

Applied models
All inverter models

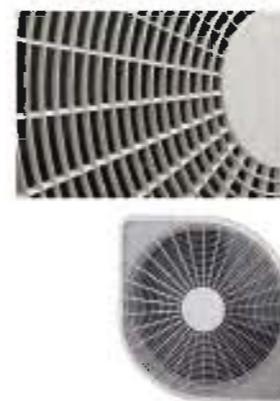
Our latest technologies

New propeller fan



Energy saving leaf shape grill

The radial shape grill has been developed in order to send airflow efficiently out unit along the grill. Decreasing the load for motor and propeller fan leads to greater energy efficiency and contributes to quieter sound.



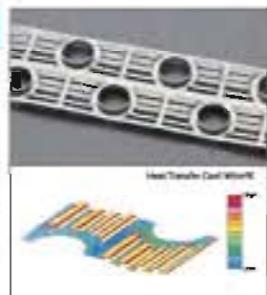
Superior corrosion resistance hot dipping steel sheet

Superior corrosion resistance hot dipping steel sheet is applied at the base of outdoor units. It has superior corrosion resistance and scratch resistance properties compared to conventional materials.



Indoor unit

Our optimal combination of fin configuration and copper tube has maximized airflow volume without expanding indoor unit's size in width. The heat exchanger efficiency rate has been drastically improved by 33% compared with that of previous models. New fin can maximize airflow volume and save energy simultaneously.



Silicon-coated PCB

The printed wiring board of the outdoor unit is coated by silicon. It lasts long having a tolerance for humidity.



High efficiency DC twin rotary compressor

The newly developed DC twin rotary compressor performs highly efficient operation under the wide range conditions from low speed to high speed. Besides low vibration, low sound level and high efficiency can be also achieved by the optimization of mechanical parts dimension and by the application of high power Neodymium motor. (SRC40/50/60ZJX-S, SCM series)



Outdoor unit

Thanks to changing fin configuration from flat sheet to new M shape fin, efficiency has increased by 10%. This high dimensional structure provides optimum balance of heat transfer and airflow.





Generates the same amount of negative ions as a forest environment

24-hour ION

The air conditioner main body employs a tourmaline-coated sheet. The sheet generates negative ions around the clock. Even when the air conditioner is not running, it generates as many negative ions (2,500–3,000/cc) as in a forest, stream or fall does, allowing you to experience them without incurring any electrical charges.



Always keeping the indoor unit clean

Self Clean Operation

"Self clean operation" is operated for 2 hours after the unit has stopped its normal operation. The indoor unit is dried up and the growth of mold is restrained. Users can select whether this mode is utilized or not.

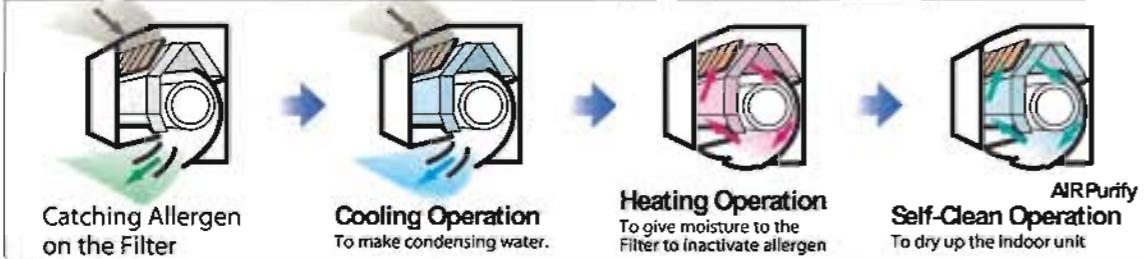


The air in your room is kept fresh

Allergen Clear System

"Allergen clear system" is equipped to suppress the influence of the allergen caught by the filter by controlling the temperature and humidity.

In case of Multi-split system, Allergen Clear System is not available.
If [Allergen] button is pushed by mistake, the indoor unit will stop.



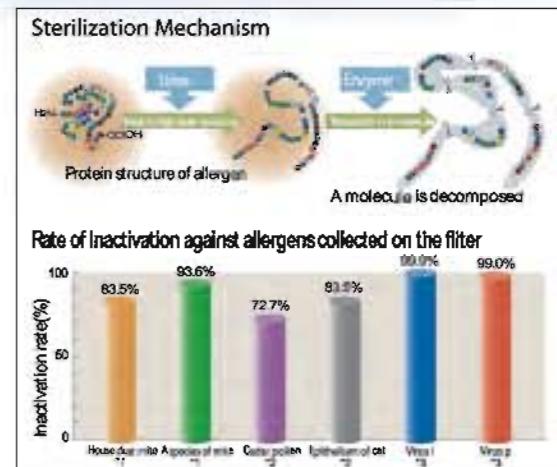
This is the original and only technology to control the temperature and humidity for inactivating allergens

Allergen Clear Filter

Enzyme + Urea deactivates allergens and kills bacteria.



The allergen clear filter breaks down the pollen, lice, and allergens that live on cat skins, etc. and deactivates them. The secret of deactivation is the Enzyme-urea compound. It deactivates not only allergens but also all kinds of bacteria, molds and viruses. Even if allergens and bacteria, etc. fly off of the filter, they are deactivated, so the air in your room is kept fresh.



- *1 Test method:
ELISA colorimetric method / ELISA fluorescence method
Laboratory:
Independent administrative agency national hospital mechanism Saganmiharu Hospital No.1536
- *2 Test method:
ELISA colorimetric method
Laboratory:
Independent administrative agency national hospital mechanism Saganmiharu Hospital No.1536
- *3 Test method:
TCID (Infection value 50%)
Laboratory:
Foundation of Xiamen Environmental Science Center, No.13-0145

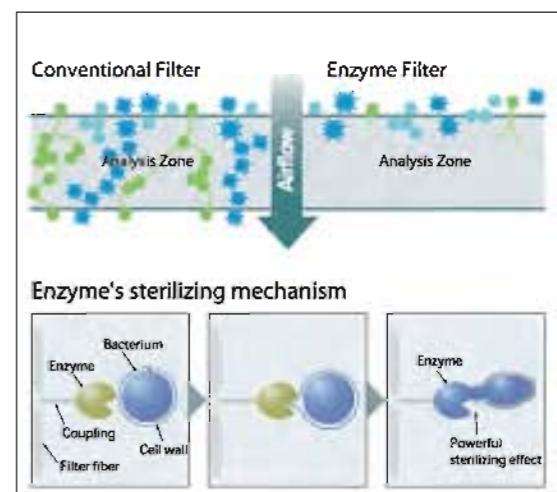
Sure to destroy fungi and bacteria, also effective on viruses and allergenic compounds
(Cat hair, dust mite, pollen etc.)

Natural Enzyme Filter

The first release in this range of the enzyme-sterilizing filter



Enzymes used in these filters are naturally occurring lytic enzymes. The lytic enzymes attack cell walls of microorganisms trapped on a filter and destroy them and doing so, have a powerful sterilizing which will effect decrease the number of molds and bacteria. Natural Enzyme Filter will clean and sanitize air passing through it to keep air in the room clean and safe.



The deodorizing ability of this filter can be easily restored simply by cleaning and exposing to the sunlight

Photocatalytic Washable Deodorizing Filter



It will keep the air fresh by deodorizing the molecules causing odor. Its deodorizing power can be restored by washing with water and drying under the sun, as such it is a Recycling deodorizing filter capable of repeat use.



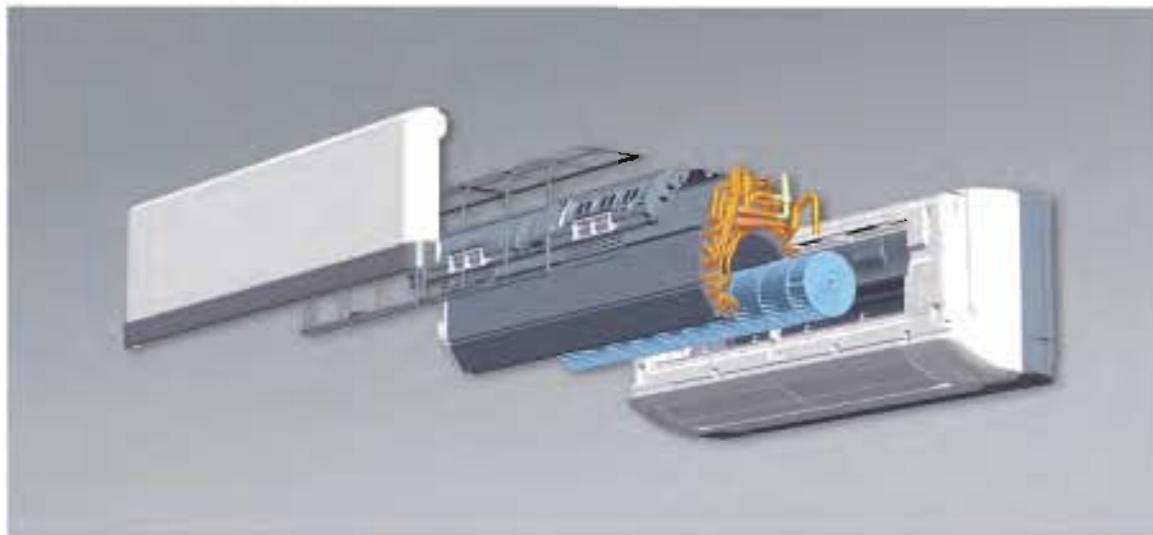
Used in models

Filter	Indoor Unit	SRK-ZJ
Allergen Clear Filter		1pc
Natural Enzyme Filter		—
Photocatalytic Washable Deodorizing Filter		1pc

Applied models
All SRK

Anti-microbial specifications and design will deliver cleanliness and safety

Anti-microbial fan



The fan has undergone anti-microbial treatment to resist mold and germs, making the system clean and safe. Foul odors and molds, etc. which can occur when an air conditioning system is not in operation are prevented.



Comparison of growth of bacteria and mold on fan surfaces (microscopic image)

Intestinal bacteria (Escherichia coli IFO 3972)
Staphylococcus aureus subsp. aureus IFO 12732
Testing Authority: Japan Food Analysis Center
Test Results Issued: 2004-4-7.
Test Report No.: 104034022-001
Tests were conducted with reference to the antimicrobial strength tests in JIS Z 2801 2000 "Antimicrobial Products-Antimicrobial Test Method" -5.2
Antimicrobial Effects: Test Methods for Plastic Products, etc.
Aspergillus niger IFO 6341
Testing Authority: Japan Food Analysis Center
Test Results Issued: 2004-4-23.
Test Report No.: 104034022-002
Tests were conducted with reference to the antimicrobial strength tests in JIS Z 2801 2000 "Antimicrobial Products-Antimicrobial Test Method" -5.2
Antimicrobial Effects: Test Methods for Plastic Products, etc.



In tests conducted at the Mitsubishi Heavy Industries Nagoya Research Lab, 24 hrs after contact with bacteria, cultured on agar media.

Live Bacteria Count on Measured Test Pieces

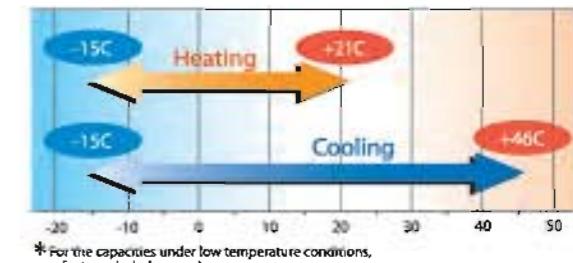
Tested Contaminant	Measurement	Test Pieces	Bacteria Count Per Test Piece		
			Measurement 1	Measurement 2	Measurement 3
Escherichia coli IFO 3972	Immediately after contact	Not treated	1.9×10^5	1.6×10^5	1.3×10^5
	After 24 hrs at 35C	Test piece 1 Not treated	<10	<10	<10
Staphylococcus aureus	Immediately after contact	Not treated	1.4×10^5	1.6×10^5	1.3×10^5
	After 24 hrs at 35C	Test piece 1 Not treated	<10	<10	<10
Aspergillus niger	Immediately after contact	Not treated	1.5×10^4	2.2×10^4	1.8×10^4
	After 24 hrs at 35C	Test piece 1 Not treated	<10	<10	<10

Test Pieces 1) Products with Antimicrobial and Antifungal Treatment

Wide Operation Range

Heating and cooling operations are possible at an outdoor temperature as low as -15C.

Our new advanced technology has expanded the heating and cooling operation range. This permits installation of the units considering a heating and cooling operation under a low temperature condition down to -15C.



* For the capacities under low temperature conditions, refer to technical manual.

Hi quality air long reach & silent flow Quiet Operation

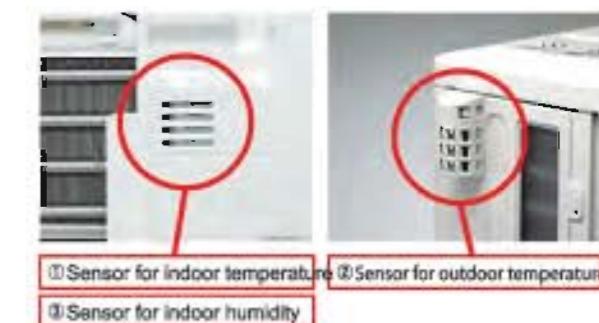
This is the secret of quiet operation.

In addition to a jet airflow system delivering uniform winds to every corner, it has an optimized serration stabilizer configuration, which ensures smooth wind flow. It makes it possible to lower operation noises further by minimizing the interaction between wind flows and the fan.



Three Sensors

Control of room temperature and humidity is very important for people to live a comfortable life. Use of three sensors to control indoor temperature, indoor humidity and outdoor temperature enable unit to obtain optimum air-conditioning.



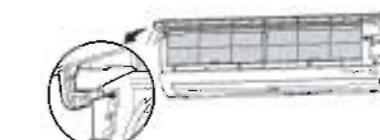
Applied models
①② All SRK, SRR, FDTC
③ SKR35/50ZJ

Applied models
All SRX

Washable filter and easy cleaning of air inlet panel

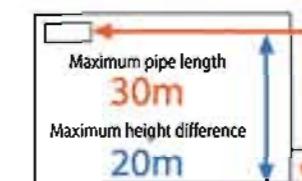
Removing air filter is quite easy. Keeping air filter clean is effective way to save energy and to keep the original powerful performance.

Air inlet panel is also removable and can be cleaned easily.



Long piping length

Piping length has been extended and design flexibility has been improved.



Applied models
FDTC40/50/60VF

Multi System OUTDOOR UNIT



SCM45ZJ-S, SCM60ZJ-S



SCM71ZJ-S1, SCM80ZJ-S1

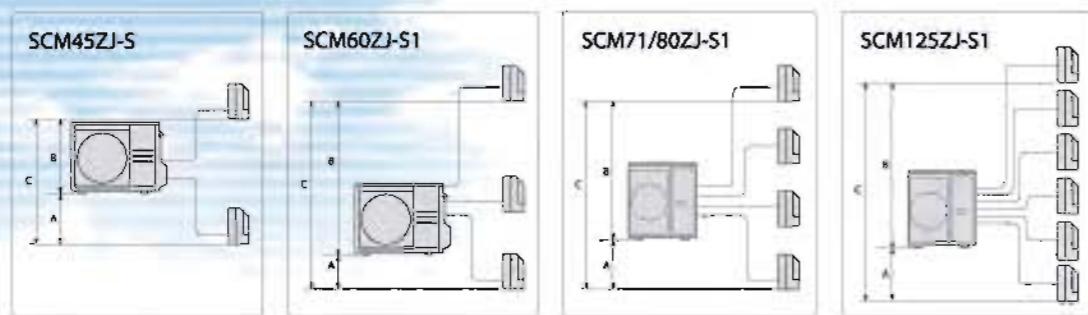


SCM125ZJ-S1

PIPING LENGTH

Limit The maximum piping length of the refrigerant pipes for the outdoor units, and the maximum height difference for the outdoor units are as shown below.

	SCM45ZJ-S	SCM60ZJ-S1	SCM71/80ZJ-S1	SCM125ZJ-S1
height difference	length for one indoor unit	under 25m	under 25m	under 25m
	total length for all rooms	under 30m	under 40m	under 70m
	lower installation spot of the indoor unit (A)	under 15m	under 15m	under 20m
	upper installation spot of the indoor unit (B)	under 15m	under 15m	under 20m
	maximum height difference of the indoor units (C)	under 25m	under 25m	under 25m
length of precharged refrigerant pipe				
30m				
40m				
40m				
50m				



OUTDOOR UNIT SPECIFICATIONS

Item	Model	For two rooms		For three rooms		For four rooms		For six rooms	
		SCM45ZJ-S	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1	SCM125ZJ-S1			
1Phase, 220/230/240V, 50Hz									
Nominal cooling capacity	ISO-T1 kW	4.5(1.8~6.4)	6.0(1.8~7.5)	7.1(1.8~8.8)	8.0(1.8~9.2)	12.5(1.8~14.0)			
Nominal heating capacity	ISO-T1 kW	3.6(1.4~7.4)	6.8(1.5~7.8)	8.6(1.5~9.4)	9.3(1.5~9.8)	13.5(1.5~14.0)			
Cooling input	at 230V kW	1.04(0.49~2.14)	1.43(0.50~2.39)	1.74(0.48~2.75)	2.16(0.48~2.83)	3.90(0.65~4.80)			
Heating input	at 230V kW	1.20(0.47~2.57)	1.51(0.60~3.00)	2.00(0.60~3.35)	2.26(0.26~3.43)	3.25(0.70~3.42)			
Energy label	Cooling/Heating	A/A	A/A	A/A	A/A	A/A			
EER (in cooling)		4.33	4.2	4.08	3.70	3.21			
COP (in heating)		4.67	4.5	4.30	4.12	4.15			
Running current	Cooling A	4.8/4.6/4.4	6.8/6.5/6.2	8.0/7.6/7.3	9.9/9.4/9.0	17.7/17.0/16.3			
	Heating A	5.5/5.3/5.1	7.1/6.8/6.6	9.2/8.8/8.4	10.4/10.0/9.5	14.8/14.1/13.6			
Inrush current (Max)	A	5.5/5.3/5.1(14)	7.1/6.8/6.6(17)	9.2/8.8/8.4(20)	10.4/10.0/9.5(20)	17.7/17.0/16.3(29)			
Sound power level *	Cooling dB(A)	60	63	65	66	69			
	Heating dB(A)	62	65	66	66	72			
Sound pressure level *	Cooling dB(A)	47	50	52	54	57			
	Heating dB(A)	49	52	54	54	60			
Air flow	Cooling CMM	40.0	42.0	56.0	56.0	75.0			
	Heating CMM	40.0	42.0	56.0	56.0	82.0			
Exterior dimensions (HxWxD)	mm	640X850(+65)X290		750X880(+73)X340		945X970(+73)X370			
Net weight	kg	47	49	62	92				
Refrigerant		R410A							
Total indoor units capacity	kW	7.0	11.0	12.5	13.5	19.5			

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

Multi System INDOOR UNIT



Premium Series SRK-ZJ Wall Mounted type

FUNCTION



Comfortable Functions



Convenient & Economy Functions



Measurement & Protection Functions



Others



SPECIFICATIONS

Item	Model	SRK25ZJ-S	SRK35ZJ-S	SRK50ZJ-S
Nominal cooling capacity	ISO-T1(JIS)	kW	2.5	3.5
Nominal heating capacity	ISO-T1(JIS)	kW	3.4	4.5
Sound power level *	Cooling dB(A)	50	55	58
	Heating dB(A)	55	59	61
Sound pressure level *	Cooling dB(A)	Hi:34 Me:28 Lo:21	Hi:42 Me:32 Lo:22	Hi:46 Me:37 Lo:26
	Heating dB(A)	Hi:39 Me:31 Lo:24	Hi:43 Me:37 Lo:25	Hi:45 Me:37 Lo:31
Air flow	CMM	Hi:7.9 Me:6.0 Lo:5.0	Hi:10.1 Me:6.4 Lo:5.0	Hi:11.3 Me:7.8 Lo:5.3
Exterior dimensions (HxWxD)	mm	294X798X229		
Net weight	kg	9.5		
Clean filter		Allergen Clear Filter X 1, Photocatalytic Washable Deodorizing Filter X 1		
Piping	Liquid line Gas line	mm(in) mm(in)	φ 6.35(1/4") φ 9.52(3/8")	φ 12.7(1/2")

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.

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

FDTC-VF 4way Ceiling Cassette type

Fits into standard 600 x 600 ceiling



Wired remote control RC-E5 (option)

RCH-E3 (option)

RCN-TC-24W-ER (option)

FUNCTION



Comfortable Functions



Convenient & Economy Functions



Measurement & Protection Functions



Others



Item	Model	FDTC25VF	FDTC35VF	FDTC50VF	FDTC60VF
Nominal cooling capacity	ISO-T1(JIS)	kW	2.5	3.5	5.0
Nominal heating capacity	ISO-T1(JIS)	kW	3.4	4.5	6.8
Sound pressure level *	Cooling dB(A)	Hi:36 Me:32 Lo:29	Hi:40 Me:36 Lo:30	Hi:42 Me:36 Lo:30	Hi:46 Me:39 Lo:30
	Heating dB(A)	Hi:38 Me:33 Lo:29.5	Hi:42 Me:35 Lo:32	Hi:42 Me:36 Lo:32	Hi:46 Me:39 Lo:32
Air flow	CMM	Hi:9 Me:8 Lo:6.5	Hi:9.5 Me:9 Lo:7	Hi:11.5 Me:9 Lo:7	Hi:13.5 Me:10 Lo:7
	Heating CMM	Hi:9.5 Me:8.5 Lo:7	Hi:10 Me:9 Lo:8	Hi:11.5 Me:9 Lo:8	Hi:13.5 Me:10 Lo:8
Exterior dimensions (HxWxD)	Main unit mm	248X570X570			
	Panel mm	35X700X700			
Net weight	Main unit kg	15			
	Panel kg	3.5			
Piping	Liquid line Gas line	mm(in) mm(in)	φ 6.35(1/4") φ 9.52(3/8")	φ 6.35(1/4") φ 12.	

Multi System INDOOR UNIT

SRR-ZJ

Ceiling Concealed type

FUNCTION



Standard equipment

OPTIONAL PARTS FOR DUCTED TYPE



SPECIFICATIONS

Item	Model	SRR25ZJ-S	SRR35ZJ-S	SRR50ZJ-S	SRR60ZJ-S
Nominal cooling capacity	ISO-T1(JIS) kW	2.5	3.5	5.0	6.0
Nominal heating capacity	ISO-T1(JIS) kW	3.4	4.5	5.8	6.8
Sound power level *	Cooling dB(A)	54	56	60	63
	Heating dB(A)	55	57	60	63
Sound pressure level *	Cooling dB(A)	Hi:40 Me:35 Lo:29	Hi:42 Me:37 Lo:30	Hi:48 Me:42 Lo:33	Hi:51 Me:44 Lo:35
	Heating dB(A)	Hi:41 Me:38 Lo:31	Hi:43 Me:40 Lo:32	Hi:48 Me:45 Lo:36	Hi:51 Me:47 Lo:38
Air flow	Cooling CMM	Hi:8.5 Me:7.0 Lo:5.0	Hi:9.0 Me:7.5 Lo:5.5	Hi:10.5 Me:8.0 Lo:5.0	Hi:12.5 Me:9.0 Lo:5.5
	Heating CMM	Hi:10.0 Me:9.0 Lo:6.5	Hi:11.0 Me:9.5 Lo:7.0	Hi:13.0 Me:11.5 Lo:7.5	Hi:15.0 Me:12.5 Lo:8.0
Exterior dimensions(HxWxD)	mm	230X740X455			
Net weight	kg	22			
Piping	Liquid line mm(in)	Φ 6.35(1/4")			
	Gas line mm(in)	Φ 9.52(3/8")			
		Φ 12.7(1/2")			

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

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

FDUM-VF

Duct Connected-Low/Middle Static Pressure-



FUNCTION



SPECIFICATIONS

Item	Model	FDUM50VF
Nominal cooling capacity	ISO-T1(JIS) kW	5.0
Nominal heating capacity	ISO-T1(JIS) kW	5.8
Sound pressure level *	Cooling dB(A)	Hi:32 Me:29 Lo:26
	Heating dB(A)	Hi:32 Me:29 Lo:26
Air flow	Cooling CMM	Hi:10 Me:9 Lo:8
	Heating CMM	Hi:10 Me:9 Lo:8
Exterior dimensions (HxWxD)	mm	280X750X635
Net weight	kg	29
Air filter		Procure locally
Piping	Liquid line mm(in)	Φ 6.35(1/4")
	Gas line mm(in)	Φ 12.7(1/2")

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

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

*Powerful-Hi can be selected. Sound pressure level dB(A):Cooling:37 Heating:37, Air flow:13CMM

FDEN-VF

Ceiling Suspended



Wired remote control Wireless remote control



FUNCTION



SPECIFICATIONS

Item	Model	FDEN50VF
Nominal cooling capacity	ISO-T1(JIS) kW	5.0
Nominal heating capacity	ISO-T1(JIS) kW	5.8
Sound pressure level *	Cooling dB(A)	Hi:39 Me:38 Lo:37
	Heating dB(A)	Hi:39 Me:38 Lo:37
Air flow	Cooling CMM	Hi:11 Me:9 Lo:7
	Heating CMM	Hi:11 Me:9 Lo:7
Exterior dimensions (HxWxD)	mm	210X1070X690
Net weight	kg	28
Air filter		Plastic net X 2 (Washable)
Piping	Liquid line mm(in)	Φ 6.35(1/4")
	Gas line mm(in)	Φ 12.7(1/2")

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

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

*Powerful-Hi can be selected. Sound pressure level dB(A):Cooling:46 Heating:46, Air flow:13CMM

Combinations

Combination table for Outdoor unit and Indoor unit

Indoor	Outdoor	SCM45ZJ-S	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1	SCM125ZJ-S1
SRK	25ZJ-S	O	O	O	O	O
	35ZJ-S	O	O	O	O	O
	50ZJ-S	-	O	O	O	O
SRR	25ZJ-S	O	O	O	O	O
	35ZJ-S	O	O	O	O	O
	50ZJ-S	-	O	O	O	O
FDTC	25VF	O	O	O	O	O
	35VF	O	O	O	O	O
	50VF	-	O	O	O	O
FDUM	50VF	-	O	O	O	O
	50VD	-	O	O	O	O
FDEN	50VD	-	O	O	O	O

O:Yes -:No

Number of connectable Indoor units

	SCM45ZJ-S	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1	SCM125ZJ-S1
Min	2	2	2	2	4*
Max	2	3	4	4	6

* In case of combination with SRK-ZJ-S, SRK71ZK-S, FDEN50VF only, 3 Indoor units can be connectable.

In case of SRK71ZK-S+SRK71ZK-S, 2 Indoor units can be connectable.

Connectable total indoor units capacity

	SCM45ZJ-S	SCM60ZJ-S1	SCM71ZJ-S1	SCM80ZJ-S1	SCM125ZJ-S1
kW	7.0	11.0	12.5	13.5	19.5

Table of Indoor unit combination SCM45ZJ-S
<with all indoor unit SRK-ZJ-S/S1 type only>
(Heating operation)

Indoor unit combination	Heating capacity (kW)				Power consumption (W)			Standard current (A)				
	Room heating capacity (kW)	Total capacity (kW)	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V	
1 room	25	3.4	—	1.4	3.4	4.2	470	920	1210	4.2	4.0	3.9
	35	4.5	—	1.4	4.5	5.0	470	1210	1450	5.6	5.3	5.1
2 room	25 + 25	3.25	3.25	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3
	25 + 35	2.71	3.79	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3
3 room	35 + 35	3.25	3.25	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3

(Cooling operation)

Indoor unit combination	Cooling capacity (kW)				Power consumption (W)			Standard current (A)				
	Room cooling capacity (kW)	Total capacity (kW)	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V	
1 room	25	2.5	—	1.8	2.0	2.8	490	530	880	2.4	2.3	2.2
	35	3.5	—	1.8	2.5	3.4	490	670	1040	3.1	2.9	2.8
2 room	25 + 25	2.50	2.50	3.0	5.0	6.2	560	1280	2050	5.9	5.6	5.4
	25 + 35	2.42	3.38	3.0	5.8	6.4	560	1740	2140	8.0	7.6	7.3
3 room	35 + 35	2.90	2.90	3.0	5.8	6.4	560	1740	2140	8.0	7.6	7.3

Table of Indoor unit combination SCM45ZJ-S

<with indoor unit except all indoor unit SRK-ZJ-S/S1 type only>

(Heating operation)

Indoor unit combination	Heating capacity (kW)				Power consumption (W)			Standard current (A)				
	Room heating capacity (kW)	Total capacity (kW)	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V	
1 room	25	3.4	—	1.4	3.4	4.0	470	1070	1210	4.9	4.7	4.5
	35	4.5	—	1.4	4.5	4.8	470	1340	1450	6.2	5.9	5.6
2 room	25 + 25	3.25	3.25	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5
	25 + 35	2.71	3.79	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5
3 room	35 + 35	3.25	3.25	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5

(Cooling operation)

Indoor unit combination	Cooling capacity (kW)				Power consumption (W)			Standard current (A)				
	Room cooling capacity (kW)	Total capacity (kW)	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V	
1 room	25	2.5	—	1.8	2.5	3.2	490	710	1040	3.3	3.1	3.0
	35	3.5	—	1.8	3.5	3.7	490	1030	1200	4.7	4.5	4.3
2 room	25 + 25	2.50	2.50	3.0	5.0	6.1	560	1340	2050	6.2	5.9	5.6
	25 + 35	2.42	3.38	3.0	5.8	6.3	560	1820	2140	8.4	8.0	7.7
3 room	35 + 35	2.90	2.90	3.0	5.8	6.3	560	1820	2140	8.4	8.0	7.7

Table of Indoor unit combination SCM60ZJ-S1

<with all indoor unit SRK-ZJ-S/S1 type only>

(Heating operation)

Indoor unit combination	Heating capacity (kW)				Power consumption (W)			Standard current (A)				
	Room heating capacity (kW)	Total capacity (kW)	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V	
1 room	25	3.4	—	1.5	3.4	4.2	600	950	1510	4.4	4.2	4.0
	35	4.5	—	1.5	4.5	5.0	600	1290	1790	5.9	5.7	5.4
2 room	25 + 25	3.15	3.15	2.1	6.3	7.6	630	1630	3000	7.5	7.2	6.9
	25 + 35	2.79	3.91	2.1	6.7	7.6	630	1760	3000	8.1	7.8	7.5
3 room	35 + 35	3.50	3.50	2.1	7.0	7.3	630	1940	3000	9.0	8.7	8.4
	35 + 50	2.92	4.18	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
50 + 50	3.55	3.55	—	2.1	7.1	7.3	630	1980	3000	9.1	8.7	8.3
	50 + 60	3.23	3.87	—	2.1	7.1	7.3	630	1980	3000	9.1	8.7
50 + 60	2.27	2.27	—	2.1	6.8	7.6	660	1540	3000	7.3	7.0	6.7
	25 + 25 + 25	2.06	2.88	3.2	7.0	7.6	660	1730	3000	8.2	7.8	7.5
50 + 60 + 60	1.80	1.80	—	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2
	25 + 35 + 35	1.87	2.62	2.62	3.2	7.1	660	1780	3000	8.4	8.1	7.7
50 + 60 + 60	1.64	2.29	3.27	3.2	7.2	7.6	660	1900	3000	9.0	8.6	8.2
	35 + 35 + 35	2.40	2.40	3.2	7.2	7.8	660	1860	3000	8.8	8.4	8.1

Table of Indoor unit combination SCM60ZJ-S1
<with all indoor unit SRK-ZJ-S/S1 type only>
(Cooling operation)

Indoor unit combination	Cooling capacity (kW)				Power consumption (W)			Standard current (A)		
Room Cooling capacity (k										

Table of Indoor unit combination SCM71ZJ-S1
<with all indoor unit SRK-ZJ-S/S1 type only>
(Heating operation)

Indoor unit combination	Heating capacity (kW)							Power consumption (W)			Standard current (A)			
	Room heating capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V	
	A room	B room	C room	D room	Min.	Standard	Max.							
1 room	25	3.4	—	—	1.5	3.4	4.2	600	1000	1510	4.6	4.4	4.2	
	35	4.5	—	—	1.5	4.5	5.0	600	1330	1790	6.1	5.8	5.6	
	50	5.8	—	—	1.5	5.8	6.5	600	1780	2310	8.2	7.8	7.5	
2 room	25 + 25	3.20	3.20	—	—	2.1	6.4	8.1	630	1700	2480	7.8	7.5	7.2
	25 + 35	3.08	4.32	—	—	2.1	7.4	8.6	630	2090	2910	9.6	9.2	8.8
	25 + 50	2.73	5.47	—	—	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	35 + 35	4.10	4.10	—	—	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	35 + 50	3.38	4.82	—	—	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
3 room	50 + 50	4.10	4.10	—	—	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	25 + 25 + 25	2.80	2.80	2.80	—	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 35	2.47	2.47	3.46	—	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 50	2.10	2.10	4.20	—	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 35 + 35	2.21	3.09	3.09	—	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 35 + 50	1.91	2.67	3.82	—	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 50 + 50	1.68	3.36	3.36	—	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	35 + 35 + 35	2.80	2.80	2.80	—	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
4 room	35 + 35 + 50	2.45	2.45	3.50	—	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 25 + 25	2.13	2.13	2.13	2.13	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	25 + 25 + 25 + 35	1.95	1.95	1.95	2.74	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	25 + 25 + 25 + 50	1.72	1.72	1.72	3.44	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	25 + 25 + 35 + 35	1.79	1.79	2.51	2.51	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4

Table of Indoor unit combination SCM71ZJ-S1
<with indoor unit except all indoor unit SRK-ZJ-S/S1 type only>
(Heating operation)

Indoor unit combination	Heating capacity (kW)							Power consumption (W)			Standard current (A)			
	Room heating capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V	
	A room	B room	C room	D room	Min.	Standard	Max.							
1 room	25	3.4	—	—	1.5	3.4	4.2	600	1220	1510	5.6	5.4	5.1	
	35	4.5	—	—	1.5	4.5	4.8	600	1510	1790	6.9	6.6	6.4	
	50	5.8	—	—	1.5	5.8	6.2	600	1950	2310	9.0	8.6	8.2	
2 room	60	6.8	—	—	—	—	—	1.5	6.8	7.1	600	2240	2660	
	25 + 25	3.20	3.20	—	—	2.1	6.4	7.7	630	1740	2480	8.0	7.6	7.3
	25 + 35	3.08	4.32	—	—	2.1	7.4	8.2	630	2130	2910	9.8	9.4	9.0
	25 + 50	2.73	5.47	—	—	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	25 + 60	2.41	5.79	—	—	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
3 room	35 + 35	4.10	4.10	—	—	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	35 + 50	3.38	4.82	—	—	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	50 + 50	3.02	5.18	—	—	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	60 + 60	4.10	4.10	—	—	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	25 + 25 + 25	2.80	2.80	2.80	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
4 room	25 + 25 + 35	2.47	2.47	3.46	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 50	2.10	2.10	4.20	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 35	2.21	3.09	3.09	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 50	1.91	2.67	3.82	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 60	1.75	2.45	4.20	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
3 room	25 + 50 + 50	1.68	2.36	3.36	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	35 + 35 + 35	2.80	2.80	2.80	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	35 + 35 + 50	2.45	2.45	3.50	—	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 25 + 25	2.13	2.13	2.13	2.13	3.6	8.5	9.1	800	2030	3350	9.3	8.9	8.5
	25 + 25 + 25 + 35	1.95	1.95	1.95	2.74	3.6	8.6	9.1	800	2050	335			

Table of Indoor unit combination SCM80ZJ-S1
<with all indoor unit SRK-ZJ-S/S1 type only>
(Heating operation)

Indoor unit combination		Heating capacity (kW)				Power consumption (W)			Standard current (A)		
		A room	B room	C room	D room	Min.	Standard	Max.	220V	230V	240V
1 room	25	3.4	—	—	—	1.5	3.4	4.2	600	1000	1510
	35	4.5	—	—	—	1.5	4.5	5.0	600	1330	1790
	50	5.8	—	—	—	1.5	5.8	6.5	600	1780	2310
2 room	25 + 25	3.20	3.20	—	—	2.1	6.4	8.1	630	1700	2480
	25 + 35	3.08	4.32	—	—	2.1	7.4	8.6	630	2090	2910
	25 + 50	2.77	5.53	—	—	2.1	8.3	8.8	630	2460	3430
	35 + 35	4.15	4.15	—	—	2.1	8.3	8.8	630	2460	3430
	35 + 50	3.42	4.88	—	—	2.1	8.3	8.8	630	2460	3430
3 room	50 + 50	4.15	4.15	—	—	2.1	8.3	8.8	630	2460	3430
	25 + 25 + 25	2.83	2.83	—	—	3.2	8.5	9.3	660	2090	3430
	25 + 25 + 35	2.65	2.65	3.71	—	3.2	9.0	9.3	660	2250	3430
	25 + 25 + 50	2.25	2.25	4.50	—	3.2	9.0	9.3	660	2250	3430
	25 + 35 + 35	2.37	3.32	3.32	—	3.2	9.0	9.3	660	2250	3430
	25 + 35 + 50	2.05	2.86	4.09	—	3.2	9.0	9.3	660	2250	3430
	25 + 50 + 50	1.80	3.60	3.60	—	3.2	9.0	9.3	660	2250	3430
	35 + 35 + 35	3.00	3.00	3.00	—	3.2	9.0	9.3	660	2250	3430
	35 + 35 + 50	2.63	2.63	3.75	—	3.2	9.0	9.3	660	2250	3430
	35 + 50 + 50	2.33	3.33	3.33	—	3.2	9.0	9.3	660	2250	3430
4 room	25 + 25 + 25 + 25	2.30	2.30	2.30	2.30	3.6	9.2	9.8	800	2240	3430
	25 + 25 + 25 + 35	2.09	2.09	2.93	3.6	9.2	9.8	800	2240	3430	10.3
	25 + 25 + 25 + 50	1.86	1.86	1.86	3.72	3.6	9.3	800	2260	3430	10.4
	25 + 25 + 35 + 35	1.94	1.94	2.71	3.6	9.3	9.8	800	2260	3430	10.4
	25 + 25 + 35 + 50	1.72	1.72	2.41	3.44	3.6	9.3	9.8	800	2260	3430
	25 + 35 + 35 + 35	1.79	2.50	2.50	2.50	3.6	9.3	9.8	800	2260	3430

Table of Indoor unit combination SCM80ZJ-S1
<with indoor unit except all indoor unit SRK-ZJ-S/S1 type only>
(Heating operation)

Indoor unit combination		Heating capacity (kW)				Power consumption (W)			Standard current (A)		
		A room	B room	C room	D room	Min.	Standard	Max.	220V	230V	240V
1 room	25	3.4	—	—	—	1.5	3.4	4.2	600	1220	1510
	35	4.5	—	—	—	1.5	4.5	5.6	600	1510	1790
	50	5.8	—	—	—	1.5	5.8	6.2	600	1950	2310
2 room	25 + 25	3.20	—	—	—	2.1	6.4	7.5	630	1740	2480
	25 + 35	3.08	4.32	—	—	2.1	7.4	8.2	630	2130	2910
	25 + 50	2.77	5.53	—	—	2.1	8.3	8.4	630	2510	3430
	35 + 35	4.15	4.15	—	—	2.1	8.3	8.4	630	2510	3430
	35 + 50	3.42	4.88	—	—	2.1	8.3	8.4	630	2510	3430
3 room	50 + 50	4.15	4.15	—	—	2.1	8.3	8.8	630	2240	3430
	25 + 25 + 25	2.83	2.83	—	—	3.2	8.5	9.2	660	2130	3430
	25 + 25 + 35	2.65	2.65	3.71	—	3.2	9.0	9.1	660	2300	3430
	25 + 25 + 50	2.25	2.25	4.50	—	3.2	9.0	9.1	660	2300	3430
	25 + 35 + 35	2.37	3.32	3.32	—	3.2	9.0	9.5	660	2300	3430
	25 + 35 + 50	2.05	2.86	4.09	—	3.2	9.0	9.5	660	2300	3430
	25 + 50 + 50	1.80	3.60	3.60	—	3.2	9.0	9.5	660	2300	3430
	35 + 35 + 35	3.00	3.00	3.00	—	3.2	9.0	9.5	660	2300	3430
	35 + 35 + 50	2.63	2.63	3.75	—	3.2	9.0	9.5	660	2300	3430
	35 + 50 + 50	2.33	3.33	3.33	—	3.2	9.0	9.5	660	2300	3430
4 room	25 + 25 + 25 + 25	2.30	2.30	2.30	2.30	3.6	9.2	9.5	800	2290	3430
	25 + 25 + 25 + 35	2.09	2.09	2.93	3.6	9.2	9.5	800	2290	3430	10.1
	25 + 25 + 25 + 50	1.86	1.86	1.86	3.72	3.6	9.3	9.5	800	2310	3430
	25 + 25 + 25 + 60	1.72	1.72	1.72	4.13	3.6	9.3	9.5	800	2310	3430
	25 + 25 + 35 + 35	1.94	1.94	2.71	3.6	9.3	9.5	800	2310	3430	10.1
	25 + 25 + 35 + 50	1.72	1.72	2.41	3.44	3.6	9.3	9.5	800	2310	3430
	25 + 35 + 35 + 35	1.79	2.50	2.50	2.50	3.6	9.3	9.5	800	2310	3430

Table of Indoor unit combination SCM80ZJ-S1
<with all indoor unit SRK-ZJ-S/S1 type only>
(Cooling operation)

Indoor unit combination		Cooling capacity (kW)				Power consumption (W)			Standard current (A)		
		A room	B room	C room	D room	Min.	Standard	Max.	220V	230V	240V
1 room	25	2.5	—	—	—	1.8	2.5	3.4	480	680	1080
	35	3.5	—	—	—	1.8	3.5	3.9	480	1010	1240
	50	5.0	—	—	—	1.8	5.0	6.1			

**Table of Indoor unit combination SCM125ZJ-S1
<with all indoor unit SRK-ZJ-S/S1 type only>
(Heating operation)**

Indoor unit combination	Heating capacity (kW)						Power consumption (W)			Standard current (A)						
	Room heating capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V				
	A room	B room	C room	D room	E room	F room										
1 room	25	3.4	-	-	-	-	1.5	3.4	4.2	700	1150	1540	5.3	5.1	4.8	
	35	4.5	-	-	-	-	1.5	4.5	5.0	700	1540	1840	7.1	6.8	6.5	
	50	5.8	-	-	-	-	1.5	5.8	6.5	700	2000	2410	9.2	8.8	8.4	
	25 + 25	3.40	3.40	-	-	-	2.1	6.8	8.4	750	1740	2420	8.0	7.6	7.3	
	25 + 35	3.29	4.61	-	-	-	2.1	7.9	9.2	750	2100	2820	9.6	9.2	8.8	
2 room	25 + 50	3.07	6.13	-	-	-	2.1	9.2	10.7	750	2580	3610	11.8	11.3	10.9	
	35 + 35	4.50	4.50	-	-	-	2.1	9.0	10.0	750	2470	3210	11.3	10.8	10.4	
	35 + 50	4.24	6.06	-	-	-	2.1	10.3	11.5	750	2980	3710	13.7	13.1	12.5	
	50 + 50	5.80	5.80	-	-	-	2.1	11.6	13.0	750	3590	4620	16.5	15.8	15.1	
	25 + 25 + 25	3.40	3.40	3.40	-	-	3.2	10.2	12.6	780	2710	3880	12.4	11.9	11.4	
	25 + 25 + 35	3.32	3.32	4.65	-	-	3.2	11.3	13.4	780	3110	4120	14.3	13.7	13.1	
3 room	25 + 25 + 50	3.15	3.15	6.30	-	-	3.2	12.6	14.0	780	3620	4350	16.6	15.9	15.2	
	25 + 35 + 35	3.26	4.57	4.57	-	-	3.2	12.4	14.0	780	3710	4350	17.0	16.3	15.6	
	25 + 35 + 50	3.07	4.30	6.14	-	-	3.2	13.5	14.0	780	4060	4350	18.6	17.8	17.1	
	25 + 50 + 50	2.70	5.40	5.40	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0	
	35 + 35 + 35	4.50	4.50	4.50	-	-	3.2	13.5	14.0	780	4060	4350	18.6	17.8	17.1	
	35 + 35 + 50	3.94	3.94	5.63	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.1	
	35 + 50 + 50	3.50	5.00	5.00	-	-	3.2	13.5	14.0	780	4050	4350	18.6	17.8	17.0	
	50 + 50 + 50	4.50	4.50	4.50	-	-	3.2	13.5	14.0	780	4040	4350	18.5	17.7	17.0	
	25 + 25 + 25 + 25	3.38	3.38	3.38	3.38	-	3.6	13.5	14.0	950	3700	3920	16.8	16.1	15.4	
	25 + 25 + 25 + 35	3.07	3.07	3.07	4.30	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4	
	25 + 25 + 25 + 50	2.70	2.70	5.40	5.40	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3	
	25 + 25 + 35 + 35	2.81	2.81	3.94	3.94	-	3.6	13.5	14.0	950	3690	3920	16.8	16.1	15.4	
	25 + 25 + 35 + 50	2.50	2.50	3.50	5.00	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3	
4 room	25 + 25 + 50 + 50	2.25	2.25	4.50	4.50	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3	
	25 + 35 + 35 + 35	2.60	3.63	3.63	3.63	-	3.6	13.5	14.0	950	3680	3920	16.7	16.0	15.3	
	25 + 35 + 35 + 50	2.33	3.26	3.26	4.66	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3	
	25 + 35 + 50 + 50	2.11	2.95	4.22	4.22	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3	
	25 + 50 + 50 + 50	1.93	3.86	3.86	3.86	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3	
	35 + 35 + 35 + 35	3.38	3.38	3.38	3.38	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3	
	35 + 35 + 35 + 50	3.05	3.05	3.05	4.35	-	3.6	13.5	14.0	950	3670	3920	16.7	16.0	15.3	
	35 + 35 + 50 + 50	2.78	2.78	3.97	3.97	-	3.6	13.5	14.0	950	3660	3920	16.7	15.9	15.3	
	35 + 50 + 50 + 50	2.55	3.65	3.65	3.65	-	3.6	13.5	14.0	950	3650	3920	16.6	15.9	15.2	
	25 + 25 + 25 + 25 + 25	2.70	2.70	2.70	2.70	-	4.0	13.5	14.0	1050	3370	3470	15.3	14.7	14.1	
	25 + 25 + 25 + 25 + 35	2.50	2.50	3.50	3.50	-	4.0	13.5	14.0	1050	3360	3470	15.3	14.6	14.0	
	25 + 25 + 25 + 25 + 50	2.25	2.25	2.25	4.50	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0	
	25 + 25 + 25 + 35 + 35	2.33	2.33	2.33	3.26	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0	
5 room	25 + 25 + 25 + 35 + 50	2.11	2.11	2.11	2.95	4.22	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 25 + 25 + 50 + 50	1.93	1.93	1.93	3.86	3.86	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 25 + 35 + 35 + 35	2.18	2.18	3.05	3.05	3.05	-	4.0	13.5	14.0	1050	3350	3470	15.2	14.6	14.0
	25 + 25 + 35 + 35 + 50	1.99	1.99	2.78	2.78	3.97	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 25 + 35 + 50 + 50	1.82	1.82	2.55	3.65	3.65	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	25 + 35 + 35 + 35 + 35	2.05	2.86	2.86	2.86	2.86	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	25 + 35 + 35 + 35 + 50	1.88	2.63	2.63	2.63	3.75	-	4.0	13.5	14.0	1050	3330	3470	15.2	14.5	13.9
	25 + 35 + 35 + 50 + 50	1.73	2.42	2.42	3.46	3.46	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	35 + 35 + 35 + 35 + 35	2.70	2.70	2.70	2.70	2.70	-	4.0	13.5	14.0	1050	3340	3470	15.2	14.5	13.9
	35 + 35 + 35 + 35 + 50	2.49	2.49	2.49	2.49	3.55	-	4.0	13.5	14.0	1050	3320	3470	15.1	14.4	13.8
	25 + 25 + 25 + 25 + 35 + 35	2.11	2.11													

Table of Indoor unit combination SCM125ZJ-S1
<with indoor unit except all indoor unit SRK-ZJ-S/S1 type only>
(Heating operation)

Indoor unit combination	Heating capacity (kW)						Power consumption (W)			Standard current (A)		
	Room heating capacity (kW)						Total capacity (kW)			Min.	Standard	Max.
	A room	B room	C room	D room	E room	F room	Min.	Standard	Max.	220V	230V	240V
1 room	25	3.4	-	-	-	-	1.5	3.4	4.1	700	1265	1540
	35	4.5	-	-	-	-	1.5	4.5	4.9	700	1650	1840
	50	5.8	-	-	-	-	1.5	5.8	6.4	700	2120	2410
	60	6.8	-	-	-	-	1.5	6.8	7.4	700	2500	2760
	71	8.0	-	-	-	-	1.5	8.0	8.1	700	3020	3090
2 room	25 + 25	3.40	3.40	-	-	-	2.1	6.8	8.2	750	1770	2420
	25 + 35	3.29	4.61	-	-	-	2.1	7.9	9.0	750	2140	2820
	25 + 50	3.07	6.13	-	-	-	2.1	9.2	10.5	750	2630	3610
	25 + 60	3.00	7.20	-	-	-	2.1	10.2	11.5	750	3040	3790
	25 + 71	2.97	8.43	-	-	-	2.1	11.4	12.1	750	3440	4250
	35 + 35	4.50	4.50	-	-	-	2.1	9.0	9.8	750	2520	3210
	35 + 50	4.24	6.06	-	-	-	2.1	10.3	11.3	750	3040	3710
	35 + 60	4.16	7.14	-	-	-	2.1	11.3	12.3	750	3420	4320
	35 + 71	4.13	8.37	-	-	-	2.1	12.5	12.9	750	4030	4690
	50 + 50	5.80	5.80	-	-	-	2.1	11.6	12.8	750	3660	4620
3 room	50 + 60	5.73	6.87	-	-	-	2.1	12.6	13.8	750	4090	5230
	50 + 71	5.58	7.92	-	-	-	2.1	13.5	13.8	750	4540	5230
	60 + 60	6.75	6.75	-	-	-	2.1	13.5	13.8	750	4540	5230
	60 + 71	6.18	7.32	-	-	-	2.1	13.5	13.8	750	4540	5230
	71 + 71	6.75	6.75	-	-	-	2.1	13.5	13.8	750	4540	5230
	25 + 25 + 25	3.40	3.40	3.40	-	-	3.2	10.2	12.4	780	2760	3880
	25 + 25 + 35	3.32	3.32	4.65	-	-	3.2	11.3	13.2	780	3170	4120
	25 + 25 + 50	3.15	3.15	6.30	-	-	3.2	12.6	13.8	780	3690	4350
	25 + 25 + 60	3.07	3.07	7.36	-	-	3.2	13.5	13.8	780	4130	4350
	25 + 25 + 71	2.79	2.79	7.92	-	-	3.2	13.5	13.8	780	4130	4350
4 room	25 + 35 + 35	3.26	4.57	-	-	-	3.2	12.4	13.8	780	3780	4350
	25 + 35 + 50	3.07	4.30	6.14	-	-	3.2	13.5	13.8	780	4140	4350
	25 + 35 + 60	2.81	3.94	6.75	-	-	3.2	13.5	13.8	780	4140	4350
	25 + 35 + 71	2.58	3.61	7.32	-	-	4.2	13.5	13.8	780	4130	4350
	25 + 50 + 50	2.70	5.40	5.40	-	-	3.2	13.5	13.8	780	4130	4350
	25 + 50 + 60	2.50	5.00	6.00	-	-	3.2	13.5	13.8	780	4130	4350
	25 + 50 + 71	2.31	4.62	6.57	-	-	3.2	13.5	13.8	780	4130	4350
	25 + 60 + 60	2.33	5.59	-	-	-	3.2	13.5	13.8	780	4130	4350
	25 + 60 + 71	2.16	5.19	6.14	-	-	3.2	13.5	13.8	780	4120	4350
	25 + 71 + 71	2.02	5.74	5.74	-	-	3.2	13.5	13.8	780	4120	4350
5 room	35 + 35 + 35	4.50	4.50	4.50	-	-	3.2	13.5	13.8	780	4140	4350
	35 + 35 + 50	3.94	3.94	5.63	-	-	3.2	13.5	13.8	780	4140	4350
	35 + 35 + 60	3.63	3.63	6.23	-	-	3.2	13.5	13.8	780	4130	4350
	35 + 35 + 71	3.35	3.35	6.80	-	-	3.2	13.5	13.8	780	4130	4350
	35 + 50 + 50	3.50	5.00	5.00	-	-	3.2	13.5	13.8	780	4130	4350
	35 + 50 + 60	3.26	4.66	5.59	-	-	3.2	13.5	13.8	780	4130	4350
	35 + 50 + 71	3.03	4.33	6.14	-	-	3.2	13.5	13.8	780	4120	4350
	35 + 60 + 60	3.05	5.23	5.23	-	-	3.2	13.5	13.8	780	4120	4350
	35 + 60 + 71	2.85	4.88	5.77	-	-	3.2	13.5	13.8	780	4120	4350
	35 + 71 + 71	2.67	5.42	5.42	-	-	3.2	13.5	13.8	780	4120	4350
6 room	50 + 50 + 50	4.50	4.50	4.50	-	-	3.2	13.5	13.8	780	4120	4350
	50 + 50 + 60	4.22	4.22	5.06	-	-	3.2	13.5	13.8	780	4120	4350
	50 + 50 + 71	3.95	3.95	5.61	-	-	3.2	13.5	13.8	780	4120	4350
	50 + 60 + 60	3.97	4.76	4.76	-	-	3.2	13.5	13.8	780	4120	4350
	50 + 60 + 71	3.73	4.48	5.30	-	-	3.2	13.5	13.8	780	4110	4350
	60 + 60 + 60	4.50	4.50	4.50	-	-	3.2	13.5	13.8	780	4110	4350
	60 + 60 + 71	4.24	4.24	5.02	-	-	3.2	13.5	13.8	780	4110	4350
	25 + 25 + 25	3.38	3.38	3.38	-	-	3.6	13.5	13.8	950	3770	3920
	25 + 25 + 35	3.07	3.07	4.30	-	-	3.6	13.5	13.8	950	3760	3920
	25 + 25 + 50	2.70	2.70	5.40	-	-	3.6	13.5	13.8	950	3750	3920
7 room	25 + 25 + 60	2.50	2.50	6.00	-	-	3.6	13.5	13.8	950	3750	3920
	25 + 25 + 71	2.31	2.31	6.57	-	-	3.6	13.5	13.8	950	3740	3920
	25 + 25 + 35 + 35	2.81	2.81	3.94	-	-	3.6	13.5	13.8	950	3760	3920
	25 + 25 + 50 + 50	2.50	2.50	5.00	-	-	3.6	13.5	13.8	950	3750	3920
	25 + 25 + 35 + 60	2.33	2.33	5.59	-	-	3.6	13.5	13.8	950	3740	3920

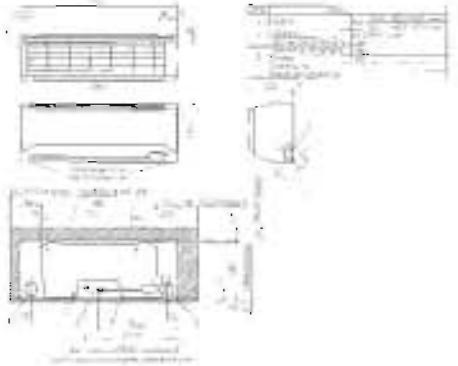
Indoor unit combination	Cooling capacity (kW)						Power consumption (W)			Standard current (A)		
	A room	B room	C room	D room	E room	F room	Min.	Standard	Max.	220V	230V	240V
3 room	35+35+50	3.50	5.00	-	-	-	3.7	12.0	12.6	880	4440	4800
	35+35+60	3.37	3.37	5.77	-	-	3.7	12.5	12.6	880	4670	4800
	35+35+71	3.10	3.10	6.29	-	-	3.7	12.5	12.6	880	4660	4800
	35+50+50	3.24	4.63	4.03	-	-	3.7	12.5	12.6	880	4670	4800
	35+50+60	3.02	4.31	5.17	-	-	3.7	12.5	12.6	880	4660	4800
	35+50+71	2.80	4.01	5.09	-	-	3.7	12.5	12.6	880	4660	4800
	35+60+60	2.82	4.84	4.84	-	-	3.7	12.5	12.6	880	4660	4800
	35+60+71	2.64	4.52	5.35	-	-	3.7	12.5	12.6	880	4660	4800
	35+71+71	2.47	5.01	5.01	-	-	3.7	12.5	12.6	880	4650	4800
	50+50+50	4.17	4.17	4.17	-	-	3.7	12.5	12.6	880	4650	4800
4 room	50+50+60	3.91	3.91	4.69	-	-	3.7	12.5	12.6	880	4660	4800
	50+50+71	3.65	3.65	5.19	-	-	3.7	12.5	12.6	880	4660	4800
	50+60+60	3.68	4.41	4.41	-	-	3.7	12.5	12.6	880	4650	4800
	50+60+71	3.45	4.14	4.90	-	-	3.7	12.5	12.6	880	4650	4800
	60+60+60	4.17	4.17	4.17	-	-	3.7	12.5	12.6	880	4650	4800
	60+60+71	3.93	3.93	4.65	-	-	3.7	12.5	12.6	880	4650	4800
	25+25+25+25	2.50	2.50	2.50	-	-	4.4	10.0	12.8	1100	3210	4800
	25+25+25+35	2.50	2.50	3.50	-	-	4.4	11.0	12.8	1100	3580	4800
	25+25+25+50	2.50	2.50	5.00	-	-	4.4	12.5	12.8	1100	4740	4800
	25+25+25+60	2.31	2.31	2.31	5.56	-	4.4	12.5	12.8	1100	4730	4800
5 room	25+25+25+71	2.14	2.14	2.14	6.08	-	4.4	12.5	12.8	1100	4730	4800
	25+25+35+35	2.50	2.50	3.50	-	-	4.4	12.0	12.8	1100	4100	4800
	25+25+35+50	2.31	2.31	3.24	4.63	-	4.4	12.5	12.8	1100	4730	4800
	25+25+35+60	2.16	2.16	3.02	5.17	-	4.4	12.5	12.8	1100	4730	4800
	25+25+35+71	2.00	2.00	2.80	5.69	-	4.4	12.5	12.8	1100	4720	4800
	25+25+50+50	2.08	2.08	4.17	4.17	-	4.4	12.5	12.8	1100	4730	4800
	25+25+50+60	1.95	1.95	3.91	4.69	-	4.4	12.5	12.8	1100	4720	4800
	25+25+50+71	1.83	1.83	3.65	5.19	-	4.4	12.5	12.8	1100	4720	4800
	25+25+60+60	1.84	1.84	4.41	4.41	-	4.4	12.5	12.8	1100	4720	4800
	25+25+60+71	1.73	1.73	4.14	4.90	-	4.4	12.5	12.8	1100	4710	4800
6 room	25+25+71+71	1.63	1.63	4.62	4.62	-	4.4	12.5	12.8	1100	4700	4800
	25+35+35+35	2.40	3.37	3.37	3.37	-	4.4	12.5	12.8	1100	4740	4800
	25+35+35+50	2.16	3.02	4.31	-	-	4.4	12.5	12.8	1100	4730	4800
	25+35+35+60	2.02	2.82	2.82	4.84	-	4.4	12.5	12.8	1100	4720	4800
	25+35+35+71	1.88	2.64	2.64	5.35	-	4.4	12.5	12.8	1100	4720	4800
	25+35+50+50	1.95	2.73	3.91	3.91	-	4.4	12.5	12.8	1100	4720	4800
	25+35+50+60	1.84	2.57	3.68	4.41	-	4.4	12.5	12.8	1100	4720	4800
	25+35+50+71	1.73	2.42	3.45	4.90	-	4.4	12.5	12.8	1100	4710	4800
	25+35+60+60	1.74	2.43	4.17	4.17	-	4.4	12.5	12.8	1100	4710	4800
	25+35+60+71	1.64	2.29	3.93	4.65	-	4.4	12.5	12.8	1100	4700	4800
7 room	25+35+70+71	1.79	1.79	3.57	3.57	-	4.4	12.5	12.8	1100	4700	4800
	25+35+50+50	1.79	2.29	3.27	4.65	-	4.4	12.5	12.8	1100	4700	4800
	25+35+60+60	2.30	2.30	3.95	3.95	-	4.4	12.5	12.8	1100	4700	4800
	25+50+50+50	2.36	3.38	3.38	3.38	-	4.4	12.5	12.8	1100	4710	4800
	25+50+50+60	2.24	3.21	3.21	3.85	-	4.4	12.5	12.8	1100	4700	4800
	25+25+25+25+25	2.50	2.50	2.50	2.50	-	5.1	12.5	13.3	1210	4440	4800
	25+25+25+25+35	2.31	2.31	2.31	3.24	-	5.1	12.5	13.3	1210	4430	4800
	25+25+25+25+50	2.08	2.08	2.08	4.17	-	5.1	12.5	13.3	1210	4410	4800
	25+25+25+25+60	1.95	1.95	1.95	4.69	-	5.1	12.5	13.3	1210	4410	4800
	25+25+25+35+35	2.16	2.16	2.16	3.02	-	5.1	12.5	13.3	1210	4420	4800
8 room	25+25+25+35+50	1.95	1.95	1.95	2.73	3.91	5.1	12.5	13.3	1210	4410	4800
	25+25+25+35+60	1.84	1.84	1.84	2.57	4.41	5.1	12.5	13.3	1210	4400	4800
	25+25+25+35+71	1.73	1.73	1.73	2.42	4.90	5.1	12.5	13.3	1210	4390	4800
	25+25+25+50+50	1.79	1.79	1.79	3.57	3.57	5.1	12.5	13.3	1210	4390	4800
	25+25+25+50+60	1.69	1.69	1.69	3.38	4.05	5.1	12.5	13.3	1210	4390	4800
	25+25+25+50+71	1.64	1.64	1.64	2.36	3.38	5.1	12.5	13.3	1210	4380	4800
	25+25+35+35+35	2.02	2.02	2.02	2.82	2.82	5.1	12.5	13.3	1210	4410	4800
	25+25+35+35+50	1.84	1.84	1.84	2.57	3.68	5.1	12.5	13.3	1210	4400	4800
	25+25+35+35+60	1.74	1.74	1.74</								

Dimensions

INDOOR UNIT

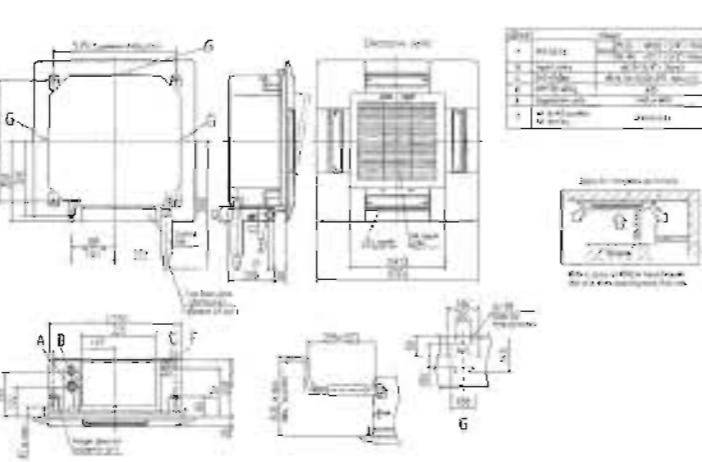
Wall Mounted type

SRK25ZJ-S SRK35ZJ-S SRK50ZJ-S



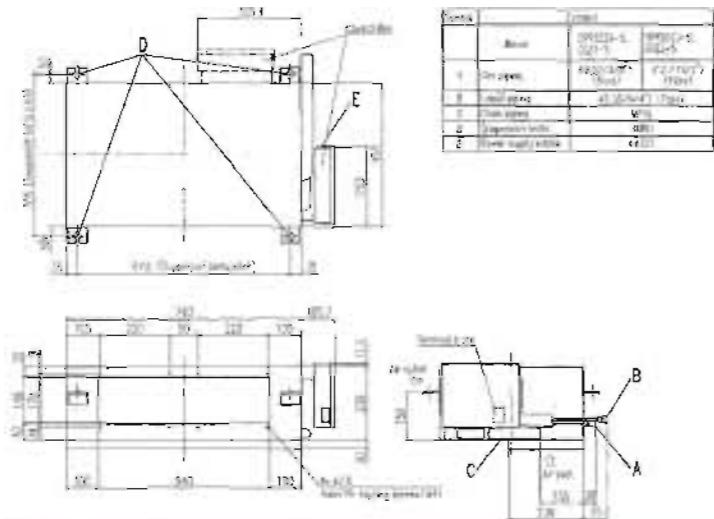
4way Ceiling Cassette type

FDTC25VF FDTC35VF FDTC40VF FDTC50VF FDTC60VF



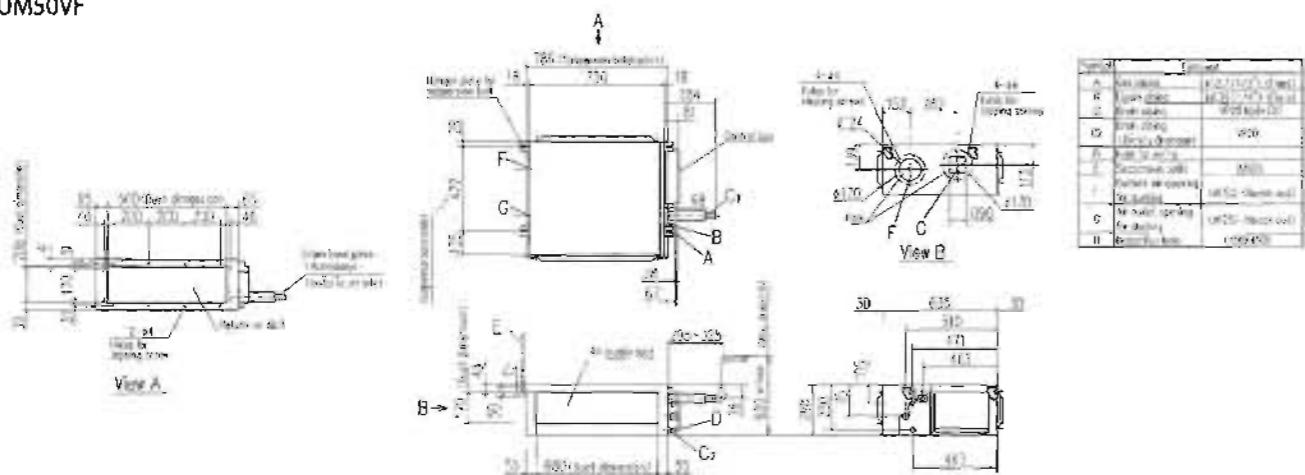
Ceiling Concealed

SRR25ZJ-S SRR35ZJ-S SRR50ZJ-S SRR60ZJ-S



Duct Connected-Low/Middle Static Pressure-

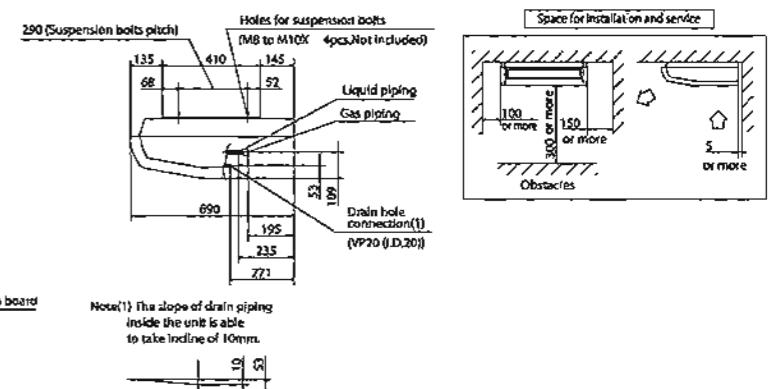
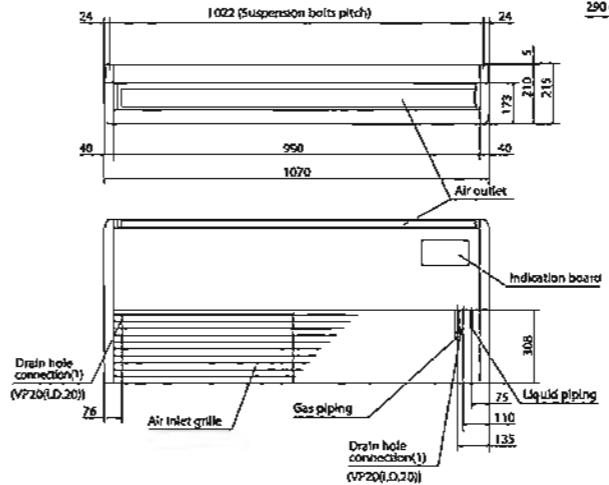
FDUM50VF



INDOOR UNIT

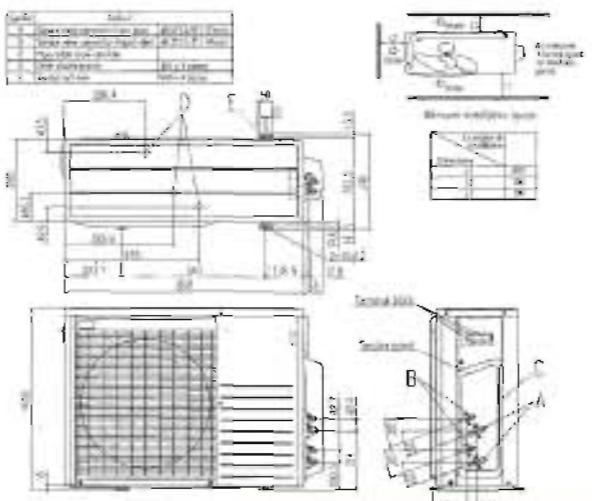
Ceiling Suspended

FDEN50VF

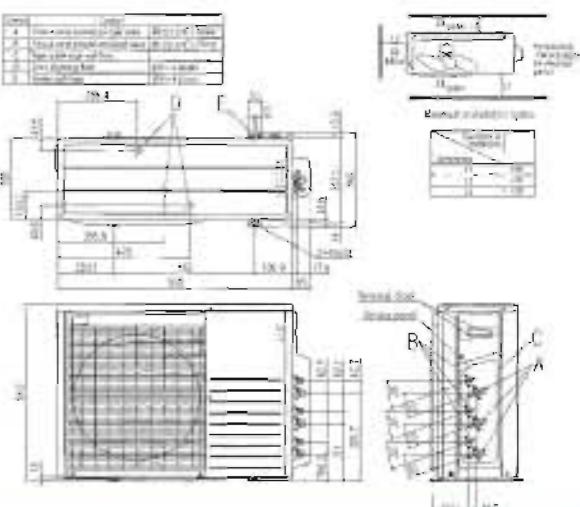


OUTDOOR UNIT

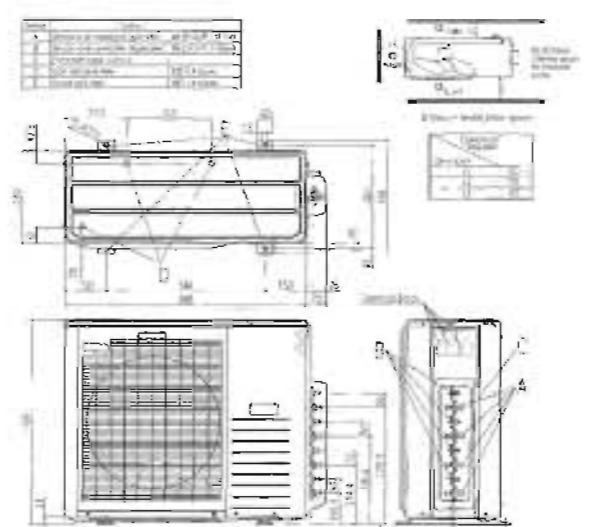
SCM45ZJ-S



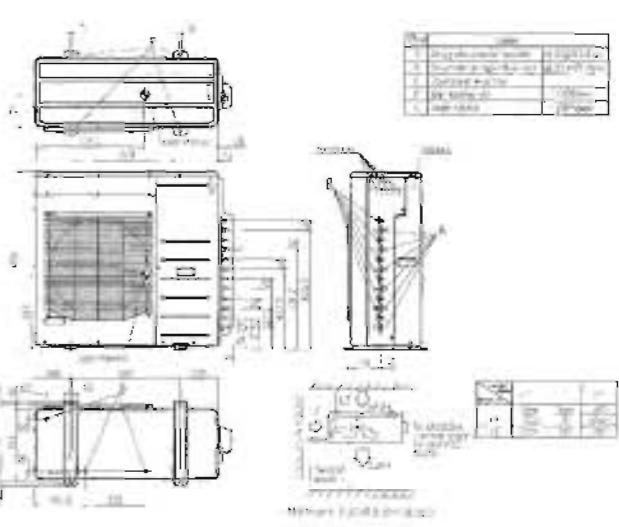
SCM60ZJ-S1



SCM71ZJ-S1 SCM80ZJ-S1



SCM125ZJ-S1

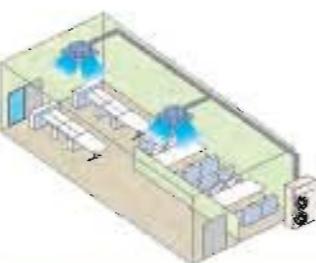


Contents

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Specifications	32-35
Control system	36
Dimensions	37-38

Product Line Up

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



Twin / Triple / Double Twin Multi System

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

Applicable indoor units

Model	Capacity					Combination		
	50	60	71	100	125	Twin	Triple	Double Twin
4way FDT	●	●	●	●	●	●	●	●
4way compact (600 x 600mm) FDTC	●							
Low/Middle Static pressure FDUM	●		●	●	●	●	●	
Ceiling Suspended FDEN	●	●	●	●	●	●	●	●

Combination of indoor units

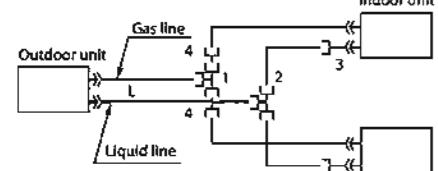
Outdoor Unit	Hyper Inverter	Micro Inverter				
		FDC71VN	FDC100VN	FDC125VN	FDC140VN	FDC200VS
Twin	40 + 40	50 + 50	60 + 60	71 + 71	100 + 100	125 + 125
Triple				50 + 50 + 50	71 + 71 + 71	60 + 60 + 125 71 + 71 + 100
Double Twin				50+50+50+50	60+60+60+60	50+50+50+50 60+60+60+60

Decision of piping specification

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

Twin type

Models FDC71VN, FDC100~140VN/VS
(Branch pipe set : DIS-WA1)



Item Model	Indoor unit combinations	Liquid pipe Main pipe	Liquid pipe Branch pipe	Gas pipe Main pipe	Gas pipe Branch pipe
FDC71	40+40				
FDC100	50+50	ø9.52x10.8	ø9.52x10.8	ø15.88x11.0	
FDC125	60+60				
FDC140	71+71			ø15.88x11.0	

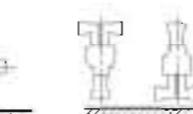
Notes (1) When 40-60 models of indoor units are applied to this combination, the reducer 3 supplied with the branch piping set should be used in order to reduce the liquid piping size from ø9.52mm to ø6.35mm at indoor unit side (flare connection). Accordingly be sure to select the liquid piping size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

Chart of shapes of branch piping parts (DIS-WA1)

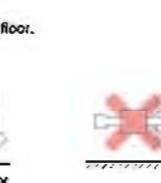
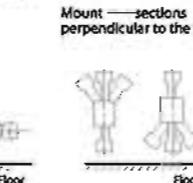
Notes (1) Symbol 1 to 4 in the drawing shows the symbols of branch piping parts in the chart respectively.
(2) Branch piping should always be arranged to have level or perpendicular position.

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

2-Way Branch

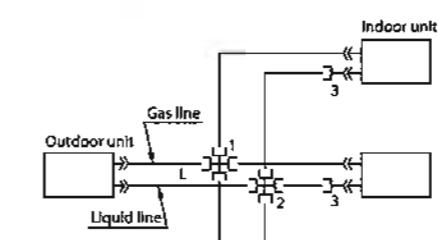


3-Way Branch



Triple type

Model FDC140VN/VS
(Branch pipe set : DIS-TA1)



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

Item Model	Indoor unit combinations	Liquid pipe Main pipe	Liquid pipe Branch pipe	Gas pipe Main pipe	Gas pipe Branch pipe
FDC140	50+50+50	ø9.52x10.8	ø9.52x10.8	ø15.88x11.0	ø12.7x10.8

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.

Item Model	Indoor unit combinations	Gas pipe Symbol	Liquid pipe Symbol	Gas pipe Symbol	Liquid pipe Symbol	Reducer Symbol	Symbol
		ø9.52	ø9.52	ø15.88	ø6.35	ø9.52	ø6.35

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.



V Multi System

Different models and capacities can be selected.

Applicable Indoor units

Model	Capacity	50	60	71	100	125
		●	●	●	●	●
4way FDT						
Ceiling Suspended FDEN		●	●	●	●	●

Combination of indoor units

Outdoor Unit	Hyper Inverter					
		FDC71VN	FDC100VN	FDC125VN	FDC140VN	FDC200VS
Twin	40 + 40	50 + 50	60 + 60	71 + 71	100 + 100	125 + 125
Triple				50 + 50 + 50	71 + 71 + 71	60 + 60 + 125 71 + 71 + 100
Double Twin				50+50+50+50	60+60+60+60	50+50+50+50 60+60+60+60

MULTI [INDOOR UNIT]

CEILING CASSETTE -4way-

FDT



R410A

Remote control (Option)

Wired

Wireless

FDT 100/125VF

RC-EX1A RC-E5 RCH-E3 RCN-T-36W-E

SPECIFICATIONS

The values are for simultaneous Multi operation.

Micro Inverter								
Set model name	FDT100VNPVF	FDT125VNPVF	FDT140VNPVF	FDT140VNTVF	FDT100VSPVF	FDT125VSPVF	FDT140VSPVF	
Indoor name	FDT50VF	FDT60VF	FDT71VF	FDT50VF	FDT50VF	FDT60VF	FDT71VF	
Outdoor name	FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS	
Power source	1Phase 220-240V 50Hz, 1Phase 220V 60Hz	3Phase 380-415V 50Hz, 3Phase 380V 60Hz						
Nominal cooling capacity (Min~Max)	ISO-T1(JIS) kW (4.0~11.2)	10.0 (5.0~14.0)	12.5 (5.0~14.5)	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)	ISO-T1(JIS) kW (4.0~12.5)	11.2 (4.0~16.0)	14.0 (4.0~16.5)	16.0 (4.0~16.5)	11.2 (4.0~16.0)	14.0 (4.0~16.0)	16.0 (4.0~16.5)	
Power consumption	Cooling/Heating kW 2.94/3.09	3.05/3.70	4.51/4.58	4.65/4.63	2.94/3.09	3.05/3.70	4.51/4.58	
COP	Cooling/Heating	3.40/3.62	3.16/3.78	3.10/3.49	3.01/3.46	3.40/3.62	3.16/3.78	3.10/3.49
Energy label	Cooling/Heating A/A	B/A	B/B	B/B	A/A	B/A	B/B	
Inrush current (Max. running current)	A	5(24)				5(15)	5(24)	
Sound pressure level ^a	Indoor ^b dB(A) Me:31 Lo:30	Hi:33 Me:31 Lo:30	Hi:35 Me:33 Lo:31	Hi:33 Me:31 Lo:30	Hi:33 Me:31 Lo:30	Hi:35 Me:33 Lo:31	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32	
Sound power level ^c	Outdoor dB(A) 70	49	Cooling:50 Heating:51	73	73	70	72	73
Air flow [*]	Indoor ^b CMM	Hi:18 Me:16 Lo:14	Hi:21 Me:19 Lo:17	Hi:18 Me:16 Lo:14	Hi:18 Me:16 Lo:14	Hi:21 Me:19 Lo:17	Cooling:75 Heating:73	
Exterior dimensions	Height x Width x Depth mm	Unit:248x640x840 Panel:35x950x950						
Net weight	Unit+Panel kg	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)			
Panel		T-PSA-3BW-E						
Air filter, Q'ty		Pocket Plastic net x1 (Washable)						
Remote control(option)		Wired:RC-EX1A, RC-E5, RCH-E3 Wireless:RCN-T-36W-E						
Exterior dimensions	Height x Width x Depth mm	845x970x370						
Net weight	kg	81		83				
Ref.amount precharged	kg(m)	3.8(30)						
Ref.piping size	Liquid/Gas ϕ	9.52/15.88						
Ref.piping length	m	50						
Vertical height difference	O/U is higher m	30						
O/U is lower m		15						
Operating temperature range	Cooling O/U	-15~43 ^a		Heating O/U	-20~20			

* Powerful-Hi can be selected. Sound level: 100VNPVF 39dB, 125/140VNPVF 46dB, 140VNTVF 39dB, 100VSPVF 39dB, 125/140VSPVF 46dB

Air flow: 100VNPVF 20CMM, 125/140VNPVF 28CMM, 140VNTVF 20CMM, 100VSPVF 20CMM, 125/140VSPVF 28CMM

SPECIFICATIONS

The values are for simultaneous Multi operation.

Micro Inverter							
Set model name	FDT200VSPVF	FDT250VSPVF	FDT140VSTVF	FDT200VSTVF	FDT200VSDVF	FDT250VSDVF	
Indoor name	FDT100VF	FDT125VF	FDT50VF	FDT71VF	FDT50VF	FDT60VF	
Outdoor name	FDC200VS	FDC250VS	FDC140VS	FDC200VS	FDC200VS	FDC250VS	
Power source	3Phase 380-415V 50Hz, 3Phase 380V 60Hz						
Nominal cooling capacity (Min~Max)	ISO-T1(JIS) kW (7.0~22.4)	20.0 (10.0~28.0)	25.0 (5.0~14.5)	14.0 (7.0~22.4)	20.0 (7.0~22.4)	25.0 (10.0~28.0)	
Nominal heating capacity (Min~Max)	ISO-T1(JIS) kW (7.6~25.0)	22.4 (9.5~31.5)	28.0 (4.0~16.5)	22.4 (7.6~25.0)	22.4 (7.6~25.0)	28.0 (9.5~31.5)	
Power consumption	Cooling/Heating kW 6.58/8.02	8.30/7.75	4.65/4.63	6.49/6.12	8.58/6.15	8.28/7.70	
COP	Cooling/Heating 3.04/3.72	3.01/3.81	3.01/3.46	3.08/3.66	3.04/3.64	3.02/3.64	
Energy label	Cooling/Heating B/A	B/A	B/A	B/A	B/A	B/A	
Inrush current (Max. running current)	A 5(19)	5(22)	5(15)	5(19)	5(19)	5(22)	
Sound pressure level ^a	Indoor ^b dB(A) Me:37 Lo:35	Hi:40 Me:40 Lo:37	Hi:42 Me:31 Lo:30	Hi:33 Me:33 Lo:31	Hi:33 Me:31 Lo:30	Hi:33 Me:31 Lo:30	Cooling : Hi:42 Me:36 Lo:30 Heating : Hi:42 Me:36 Lo:32
Sound power level ^c	Outdoor dB(A) 57	Cooling:57 Heating:58	51	57	57	Cooling:57 Heating:58	
Air flow [*]	Indoor ^b CMM	Hi:27 Me:24 Lo:20	Hi:30 Me:27 Lo:23	Hi:18 Me:16 Lo:14	Hi:17 Me:19 Lo:17	Hi:18 Me:16 Lo:14	Cooling:150 Heating:145
Exterior dimensions	Height x Width x Depth mm	Unit:298x640x840 Panel:36x950x950					
Net weight	Unit+Panel kg	32.5(Unit:27 Panel:5.5)	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)	27.5(Unit:22 Panel:5.5)	29.5(Unit:24 Panel:5.5)	
Panel		T-PSA-3BW-E					
Air filter, Q'ty		Pocket Plastic net x1 (Washable)					
Remote control(option)		Wired:RC-EX1A, RC-E5, RCH-E3 Wireless:RCN-T-36W-E					
Exterior dimensions	Height x Width x Depth mm	1,300x970x370	1,505x970x370	845x970x370	1,300x970x370	1,505x970x370	
Net weight	kg	122	140	83	122	140	
Ref.amount precharged	kg(m)	5.4(30)	7.2(30)	3.8(30)	5.4(30)	7.2(30)	
Ref.piping size	Liquid/Gas ϕ	9.52/22.22	12.7/22.22	9.52/15.88	9.52/22.22	12.7/22.22	
Ref.piping length	m	70	50	50	70	70	
Vertical height difference	O/U is higher m	30					
O/U is lower m		15					
Operating temperature range	Cooling O/U	-15~20		Heating O/U	-20~20		-15~20

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.

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

^b : The values are for one indoor unit operation.

^c : 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.

* Powerful-Hi can be selected. Sound level: 200/250VSPVF 51dB, 140VSTVF 39dB, 200VSTVF 46dB, 200VSDVF 39dB, 250VSDVF 46dB

Air flow: 200/250VSPVF 37CMM, 140VSTVF 20CMM, 200VSTVF 28CMM, 200VSDVF 20CMM, 250VSDVF 28CMM

MULTI [INDOOR UNIT]

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

FDT



Fits into standard 600 x 600 ceiling

Remote control (Option)

Wired

Wireless

SPECIFICATIONS

The values are for simultaneous Multi operation.

Micro Inverter							
Set model name	FDT100VNPVF	FDT140VNTVF	FDT140VSPVF	FDT140VNTVF	FDT100VSPVF	FDT140VNTVF	FDT140VNTVF
Indoor name	FDT50VF	FDT60VF	FDT71VF	FDT50VF	FDT50VF	FDT60VF	FDT71VF
Outdoor name	FDC100VN	FDC125VN	FDC140VN	FDC140VN	FDC100VS	FDC125VS	FDC140VS
Power source	1Phase 220-240V 50Hz, 1Phase 220V 60Hz	3Phase 380-415V 50Hz, 3Phase 380V 60Hz					
Nominal cooling capacity (Min~Max)	ISO-T1(JIS) kW (4.0~11.						

Control Systems [Individual control]

Remote Control line up

indoor unit	remote control	indoor unit	remote control
wired	RC-EX1A	FDT	RCN-T-36W-E
	RC-ES		RCN-TC-24W-ER
	RCH-E3		RCN-KIT3-E
wireless	FDTC	FDUM, FDU	RCN-E1R
	FDEN		

Wired remote control with weekly timer (option)

RC-ES



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

Run hour meters to facilitate maintenance checking

RC-ES 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.



Weekly timer function as standard

RC-ES 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

Time	8	9	10	11	12	13	14	15	16	...	23
RUN			Timer-1	Timer-2	Timer-3	Timer-4					
STOP											

Changeable set temperature ranges

RC-ES 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	20~30C(effective for heating operation)
Lower limit	18~26C(effective for non-heating operation)

Simple remote control (option)

RCH-E3 (wired)



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

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

Up to 16 units

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

AUTO restart

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

Wireless remote control (option)

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

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

RCN-KIT3-E

RCN-E1R



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

Thermistor (option)

SC-THB-E3

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

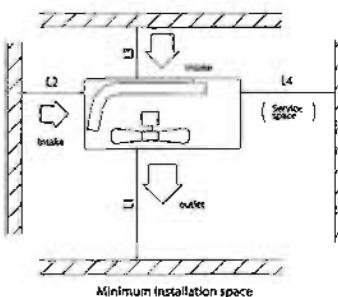
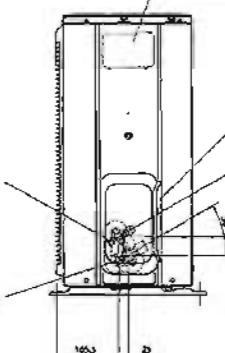
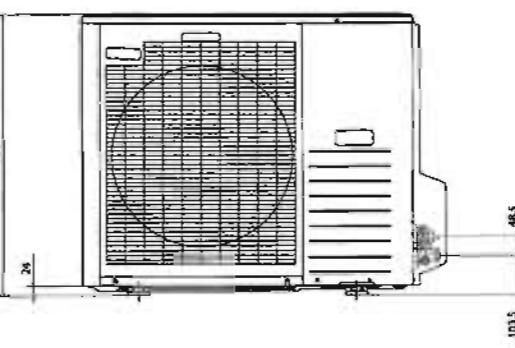
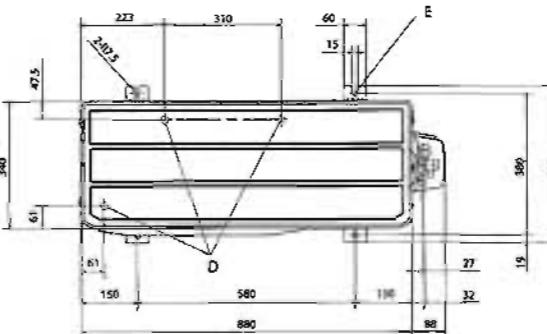


OUTDOOR UNIT DIMENSIONS (unit:mm)

FDC71VN

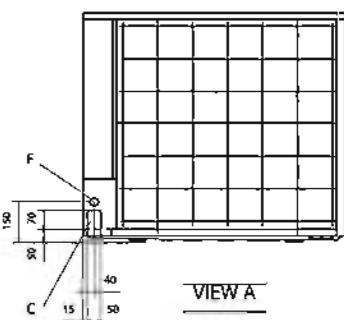
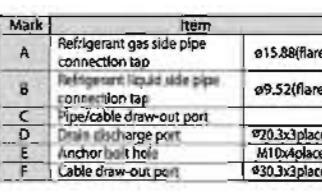
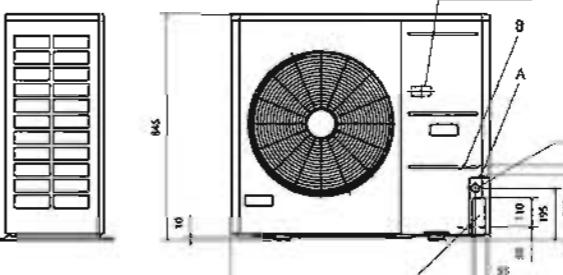
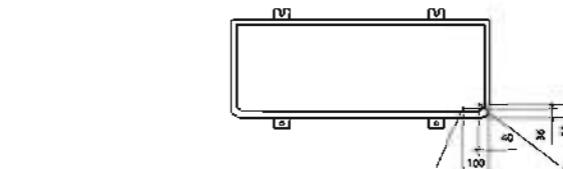
Mark	Item
A (gas side)	Service valve connection $\varnothing 15.88(5/8")$ (flare)
B	Service valve connection $\varnothing 9.52(3/8")$ (flare)
C	Pipe/cable draw-out hole $\varnothing 20x3$ places
D	Drain discharge hole $\varnothing 20x3$ places
E	Anchor bolt hole $M10x4$ places

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

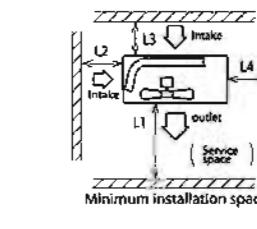
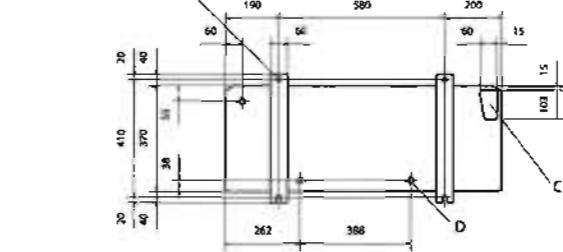


Dimensions	1	2	3
L1	Open	Open	500
L2	300	250	Open
L3	100	150	100
L4	250	250	250

FDC100VN, 125VN, 140VN



Dimensions	1	2	3
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

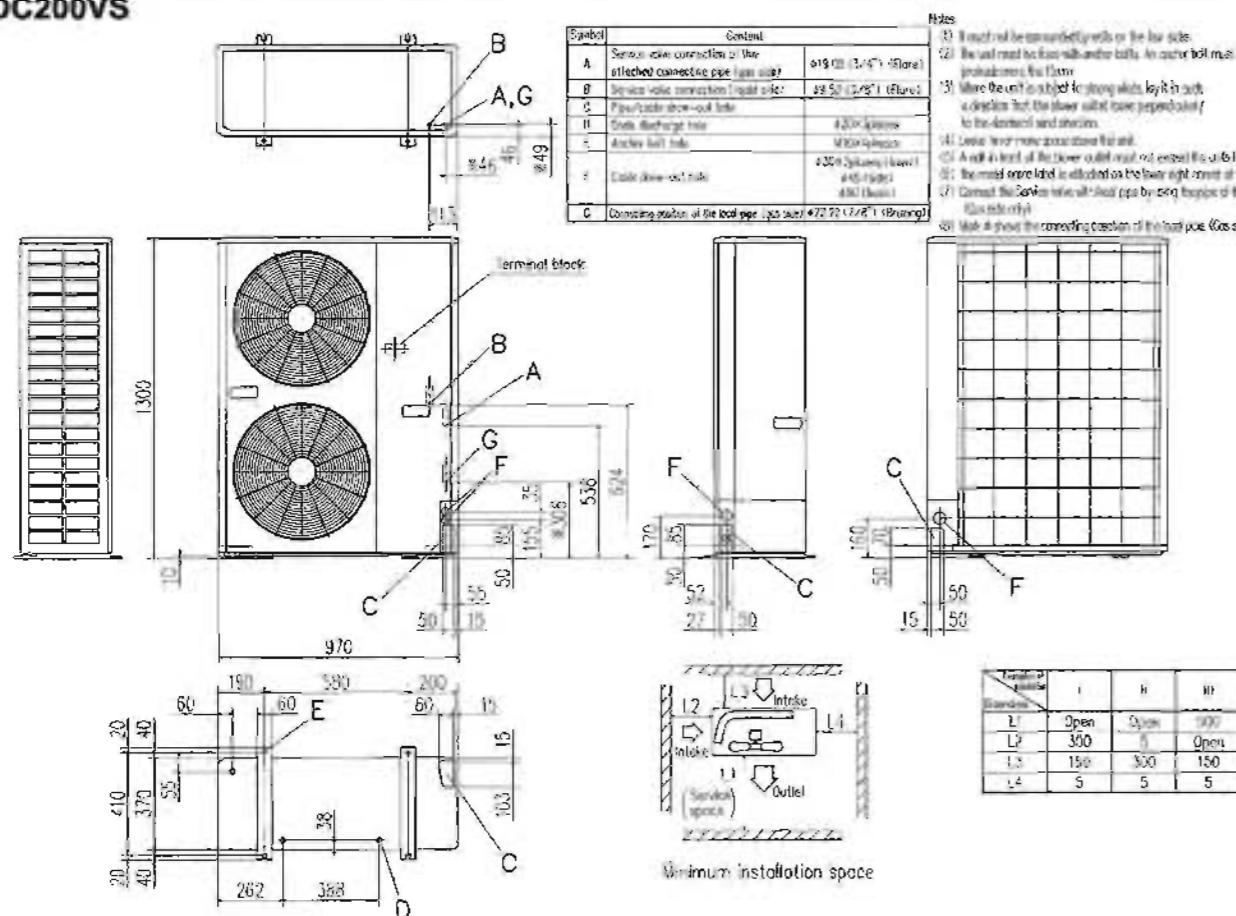


Dimensions	1	2	3
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

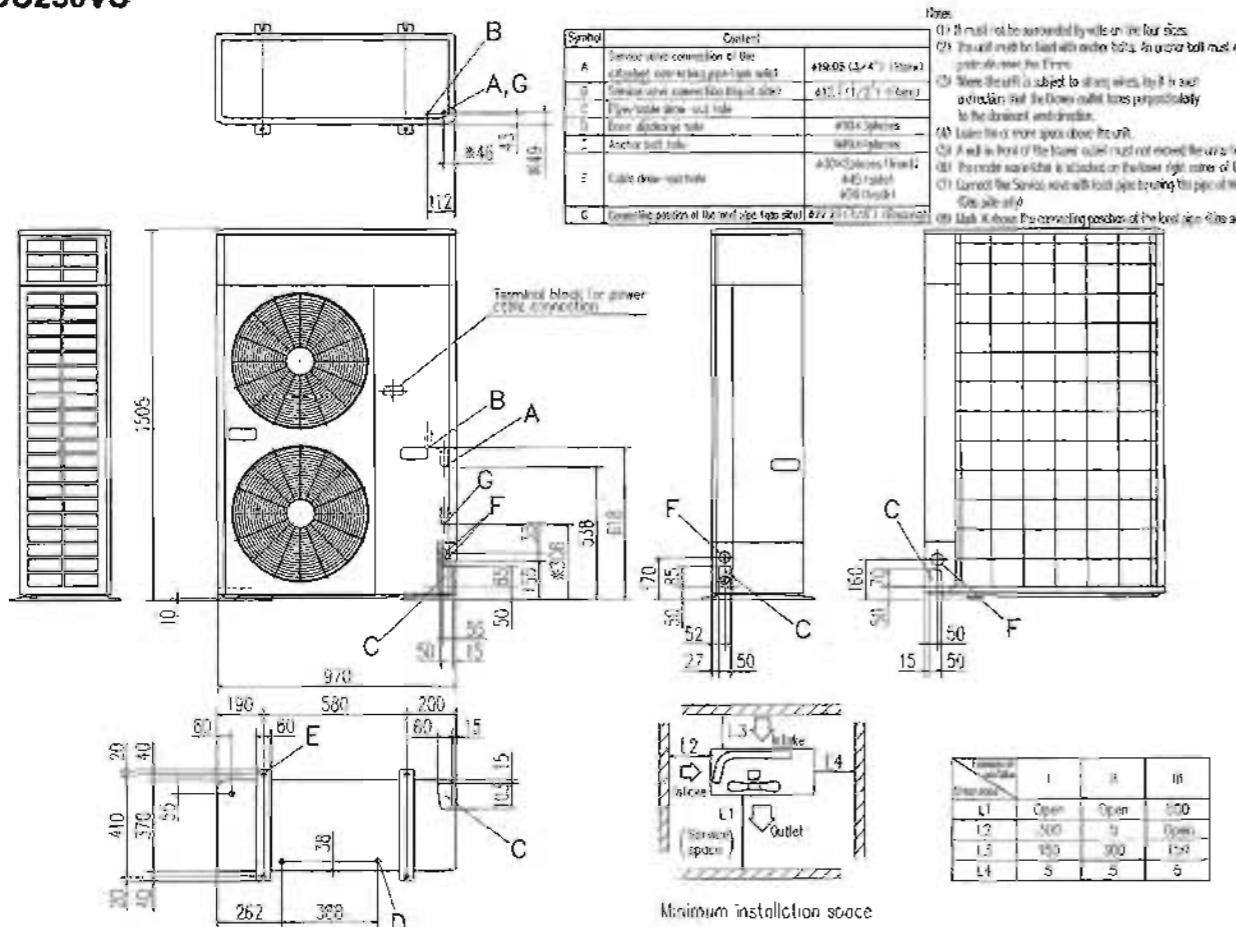
Notes:
 (1) It must not be surrounded by walls on the four sides.
 (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
 (3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind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

OUTDOOR UNIT DIMENSIONS (unit:mm)

FDC200VS



FDC250VS



Before starting use

Heating performance

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

Indication of sound values

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

Use in oil atmosphere

Avoid installing this unit in 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.

Safety Precautions

Air-conditioner usage target

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

Before use

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

Refrigerant leakage

The refrigerant (R410A) used for the Residential 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.

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.