

PRO-V6x

SKM VRF Air Conditioners



50Hz

R-410A
REFRIGERANT



Product Range: 8-64HP



CE

Contents

03-06	High Efficiency
06-10	Stable Operation
11-13	User Friendly Experience
14-17	Flexible Design And Installation
18-30	Outdoor Unit
31-51	Indoor Unit
52-61	Controller System

Legend

The following legends are used throughout this manual

cfm..... Cubic Feet per Minute	AFR ... Air Flow Rate
Hz Hertz	MBh ... BTUH x1000
kW Kilowatts	Ph Phase
kg..... Kilogram	PI Power Input of Compressor
lbs Pounds	BPF.... By Pass Factor
l/s Liters per Second	TR..... Tons of Refrigeration
Pa Pascal	V Volts
in. wg . Inch Water Gauge	



SKM reserves the right to change, in part or in whole the specifications of its Air Conditioning Equipment at any time in order to add the latest technology. Therefore, the enclosed information may change without any prior notice.

Introduction

SKM Air Conditioning is a premier name in the Air conditioning industry, known for its indigenously designed and engineered Air conditioning Equipment. It is one of the leading manufacturers of HVAC equipment in the Gulf, operates on a philosophy of total customer satisfaction and offers superior quality HVAC products.

SKM products & services have been manufactured & delivered under the controls established by a Bureau Veritas Certification approved Quality, Environment, Occupational, Health & Safety Management Systems that confirms with ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007. Bureau Veritas Certification under certification numbers IND11.1107, IND10:1005, IND11.4392 HS.

SKM Testing Laboratory quality system and Competency of Testing Laboratory in accordance to ISO 17025:2005.

SKM provides qualified service and stock of replacement parts in all major Middle east countries. See back cover for details.

SKM Air Conditioning LLC



You name it.....We cool it



High Efficiency

Air conditioning is a big power consumer in our daily life. Authoritative statistics show that the energy consumption of central air conditioning generally accounts for 40 % to 60% in the whole building energy consumption, thus energy saving of air-conditioning has important social significance.

SKM PRO-V6x series inverter central air conditioner, all the compressors adopt DC variable speed compressors, and all the fan motors adopt DC motors. The leading full-DC inverter control technology and a variety of intelligent energy-saving technologies realize the optimal energy saving performance of X series.

Large Capacity Full DC Inverter Compressor, More Efficient and More Reliable

New Scroll Compressor

PRO-V6x series adopts large capacity efficient high pressure chamber DC variable speed compressor. And the compressor uses centralized winding stators and 6-stage efficient neodymium magnets rotor, greatly enhancing the capacity, which makes the units more stable, reliable and efficient.

Stable Large Capacity High-pressure Chamber Compressor

The Unloading Valve Inside the Compressing Chamber

High Quality Material Involute Scroll Plate

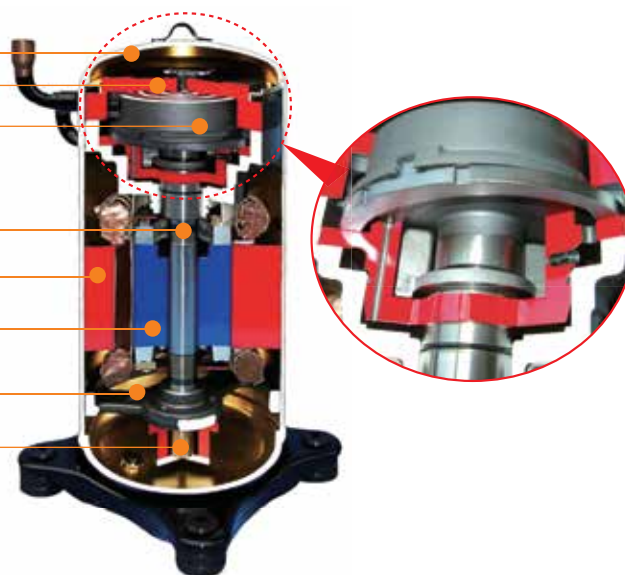
Flexible Frame Structure

"Keel Motor" Concentrated Winding Stator Coil

High Efficiency Neodymium Magnet Rotor

Oil Collecting Cup

Larger Capacity Oil Basin



High-pressure Chamber Design

Sucking air directly can reduce overheating loss and improve compressing efficiency compared to the low-pressure chamber compressor.

Motor Stator

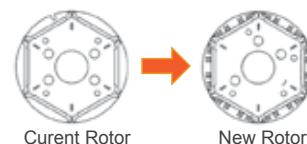
The use of centralized stator winding reduces the copper loss and improves the compressing efficiency; stator coil adopts "keen motor" manufacturing technique, raising the COP of compressor, further enhancing the compressor efficiency under low-load working condition.

Scroll Plate

By the use of special material, reduce friction and leakage of refrigerant gas (mechanical leakage and pressure leakage), improving the efficiency and reliability.

Motor Rotor

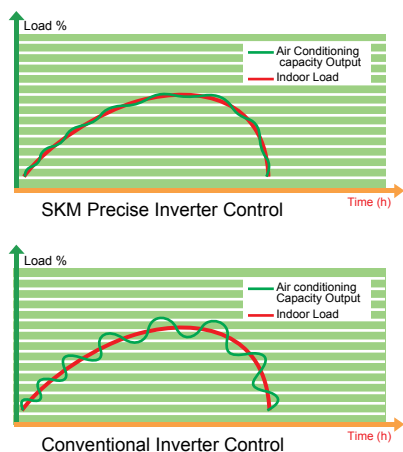
6-pole high efficient neodymium magnets motor rotor reduces motor vibration and noise.



DC Inverter Compressor Technology

Precise Room Temperature Control

The operating speed of DC motor in compressor can be adjusted continuously relating to the variability of system capacity. The technique integrates auto-adaptive control adjusting capacity output according to actual air conditioning load. Its purpose is to achieve a smoother curve of temperature fluctuation to satisfy highest comfort requirements.



Stepless Fan Speed Regulation Technology

Outdoor unit fan motor adopts DC inverter-driven motor which improves the motor efficiency by 40% and reduces the power input significantly. The outdoor unit fan can achieve stepless speed regulation according to the external temperature changes.

Streamlined Air Grille

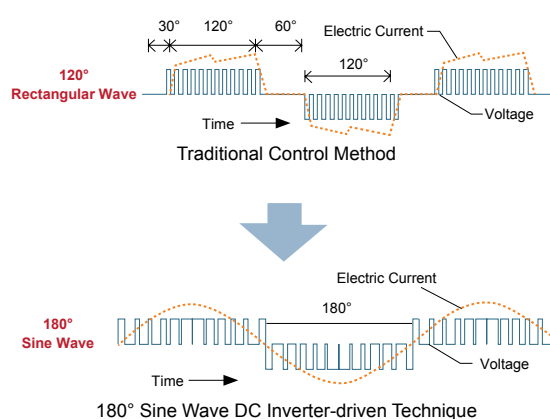


Efficient Axial Fan



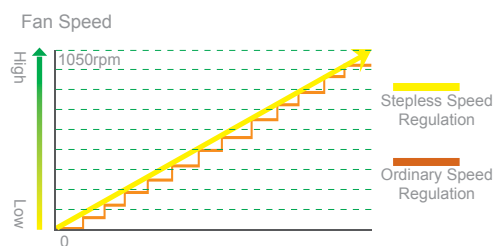
Latest 180-degree Sine Wave DC Inverter-driven Technique

PRO-V6x series is equipped with the most advanced inverter controller-upgrade IGBT inverter controller. It's small but has high precision, and it has self multi-protecting procedure, such as over voltage, under voltage, phase loss, phase error, over-current, overheating, etc. so that can enhance the inverter's precision and reliability.



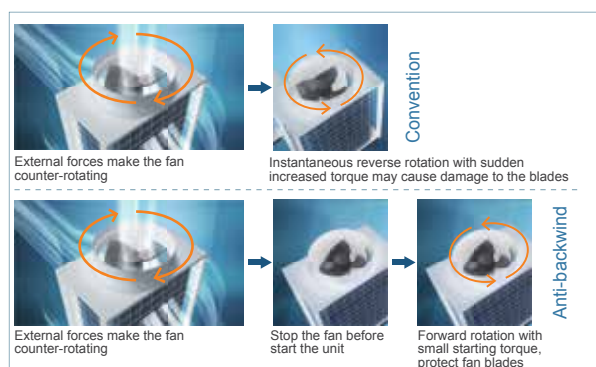
Stepless Frequency Conversion Speed Control of Fan

Ensure stability of compressor discharge pressure and suction pressure to improve unit reliability;
Ensure stability of unit dynamic distribution of refrigerant flow and capacity of indoor unit;
Quickly control response speed of system to better meet the needs of load changes of the air conditioner.



Fan Protection Function

In case that the external forces making outdoor unit fan to rotate inversely, the fan will be stopped first when the air conditioner is started, and then the fan will rotate normally to protect the blades from damage.

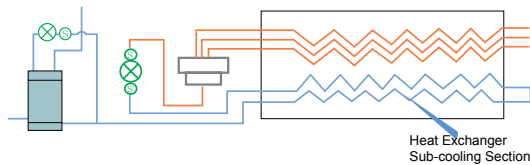




Sub-cooling of Two Stages

The sub-cooling section is designed in the heat exchanger of the ODU to realize the first-stage sub-cooling. Furthermore, a high efficiency double pipe is applied to achieve the second-stage sub-cooling. The total sub-cooling degree is up to 27°C, which improves the cooling capacity and increases the total piping length.

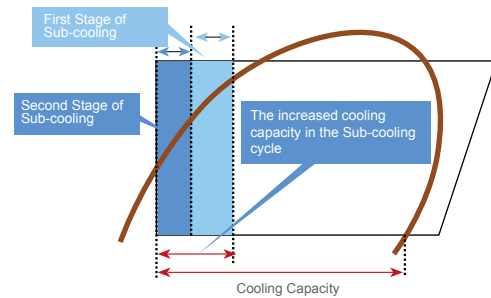
Two-stage Sub-cooling Cycle Diagram



Sub-cooler

- The two-stage sub-cooling cycle improves the cooling capacity;
- The pressure loss of the refrigerant flow in the pipe is reduced;
- The increased sub-cooling degree promotes the stable operation of the electronic expansion valve;
- The increased sub-cooling degree increases the total piping length.

Two-stage Sub-cooling Pressure Enthalpy Diagram

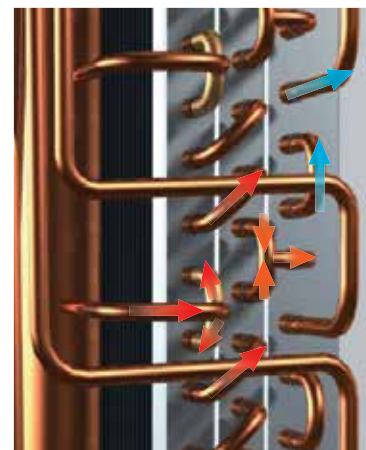
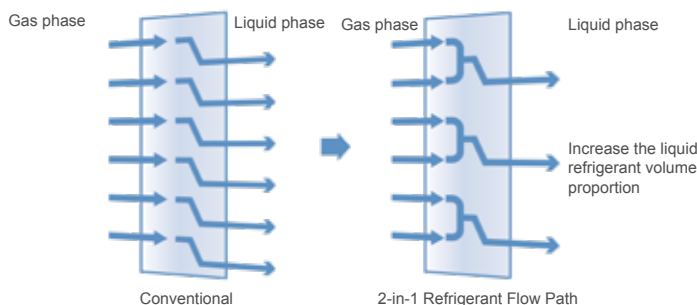


New Efficient Heat Exchanger

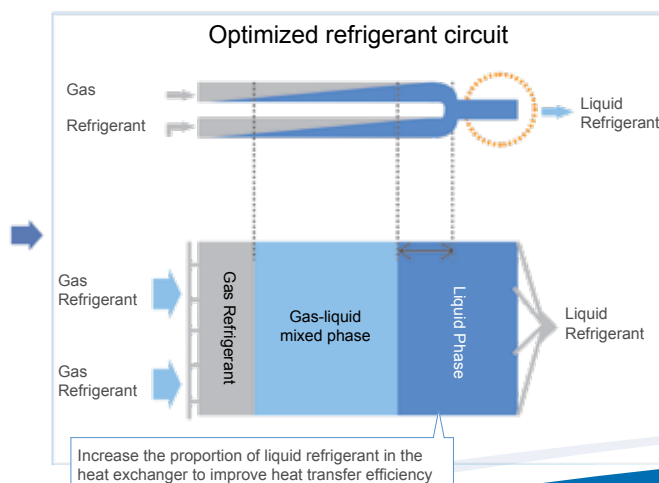
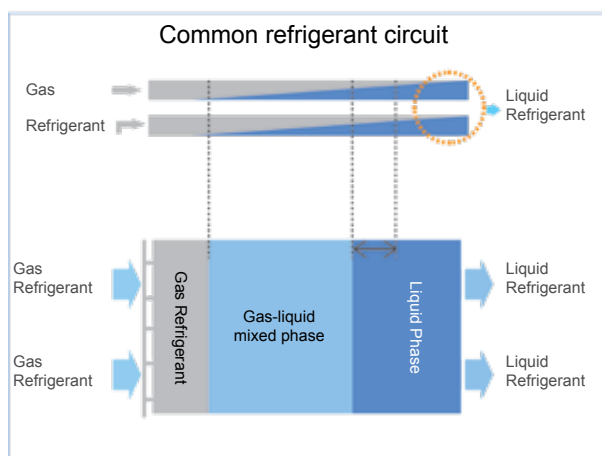
New high-performance heat exchanger adopts efficient thermal conductive $\Phi 7.0\text{mm}$ and new type fins, which reduces the air-flow resistance, makes the heat exchange more even and more sufficient, and improves the heat transfer efficiency considerably.

Optimized Refrigerant Circuit

Through specially designed refrigerant flow, the efficiency of heat exchanger is more optimized.

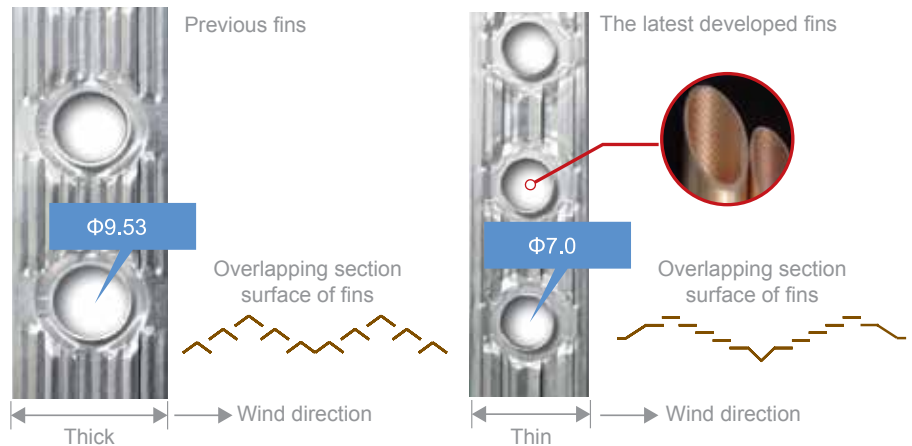


→ Gaseous Refrigerant
→ Gas-liquid Mixed Phase
→ Liquid Refrigerant



Stepped Efficient Heat Transfer Fins

SKM new step-like high-efficiency heat transfer coils use new low-pressure-loss fins and copper tubes which can improve the heat transfer efficiency.



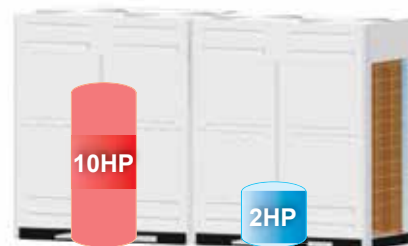
Smart and Precisely Uniform Unit Load

Central air conditioning system is working under partial load in the most of the time; PRO-V6x series optimizes the software and system especially for partial load, making the system more energy efficient under partial load condition.

Tests show that VRF systems are most efficient under 40%~70% partial load condition, and the power consumption is lowest. For example 20HP units (double module), when the units operate under 12HP load, the load distribution of each module: common product is at the lowest level 10HP (full load)+2HP (ultra-low load); SKM PRO-V6x series is 6HP+6HP (intermediate load).



VS



SKM PRO-V6x Series:

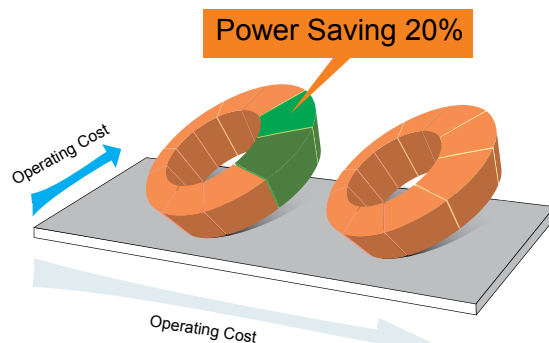
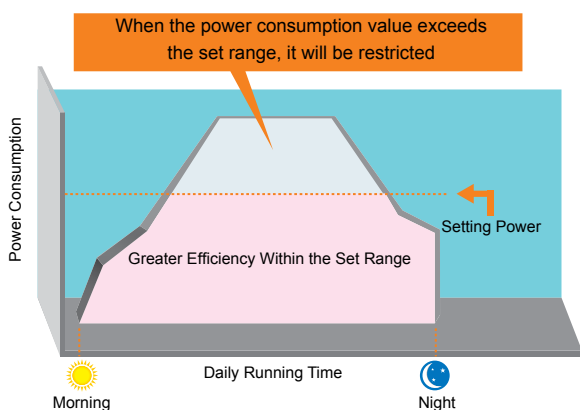
The efficiency will be the highest and the power consumption will be lowest when each module unit is working at 40%-75% partial load.

Common Product:

In normal operation, the module combination is operated at full load + ultra-low load, which influences the lifetime of units and causes energy waste.

Demand Mode (Energy Saving Mode)

The intelligent demand mode can adjust the air-conditioner working condition automatically according to the different power supply condition, thus the power supply can satisfy both the need of air conditioner and daily work.



For mode settings, please contact your local service engineer. Because the operate power is limited, the output capacity will be less than the rated value.



Stable Operation

SKM PRO-V6x series innovatively applies a variety of intelligent technology and realizes a series of intelligent operation from component selection to the unit operation. Comprehensive intelligent control capacity ensures high quality of the system. Meanwhile, based on the high-end technology support platform of SKM inverter central air-conditioning, the operation of PRO-V6x Series is more reliable.

Automatic Addressing

System can assign indoor unit addresses without manual setting automatically, it is suitable for the use of multiple indoor units of large system.

Intelligent Operation Inspection

The 7-segment LED on the outdoor unit makes it easy to monitor and check the details about the operating status, refrigerant temperature, pressure, compressor operation frequency and time, error code and other factors for maintenance, which makes both operation management and maintenance more convenient.



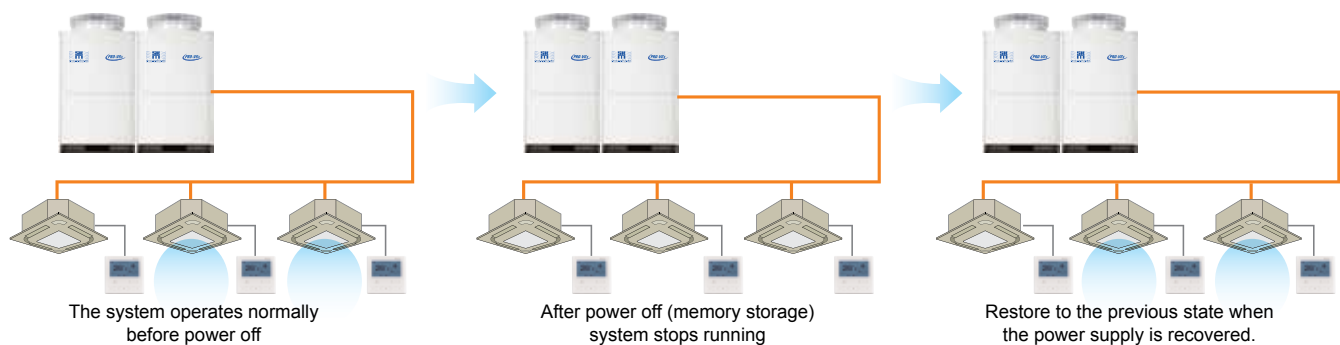
Data Collector

Data Collector is designed to quickly inspect the units operating status. Problems can be found out as early as possible, then solution can be taken accordingly.



Auto-restart Function

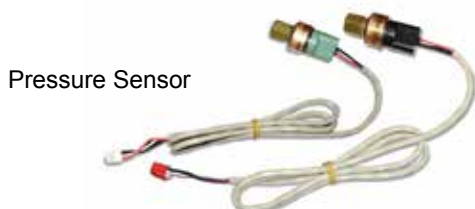
The operating data can be recorded automatically as power failure occurs. When the power supply is restored, the system can fulfill automatic start-up (Manual operation is also allowed), the previous operation mode can be renewed without being reset, which brings more intelligent and considerate service to users.



Accurate Self-diagnosis and Self-control of System Pressure and Temperature

Fast, Accurate Pressure Sensing Technology

The system pressure is controlled by the use of precise high & low pressure sensors, which can collect the system pressure parameter in high frequency continuously and give real-time feedback of measurement results, realizing precise controls in the output through the master controller at first time.



Pressure Sensor

Combined with compressor frequency control, fan speed and electronic expansion valve opening degree, the pressure sensing technology puts the condensing pressure and evaporating pressure of system in the best condition, so as to ensure the unit more stable running, more timely protection and longer service life.



01



02



03

- 01 Compressor Frequency Control
- 02 Fan Operation Control
- 03 Electronic Expansion Valve Opening Degree Control

32-bit MCU and High-speed Transmission Bus

Adopting 32-bit MCU data processing, together with the high-speed transfer bus can make up to dozens of multitasking perfect signal processing of outdoor unit control, indoor unit control, temperature control, compressor frequency, fan motor speed and switches, etc. simultaneously, while maintaining stability it ensures efficient operation, high-speed and efficient non-polar communications while maintain the operation stability.



32-bit Data processing MCU

Refrigerant Flow Control

Indoor units adopt microcomputer electric expansion valve with 2000-step automatic adjustment function, which can make precise flow adjustment automatically according to the actual load of indoor units with more accurate temperature regulation and better energy efficiency.

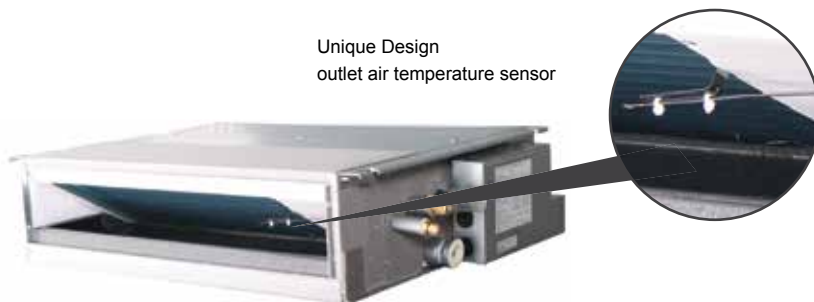
2000-step
Electric Expansion Valve



Temperature Sensing

There are multiple thermal probes in the system, which will make real-time detection and feedback on the outdoor temperature, indoor temperature and outlet air temperature etc., the system output is adjusted by the master controller.

Unique Design
outlet air temperature sensor





Multiple Oil Circuit Protection

Oil balance between outdoor units is realized through two-stage oil separation technology, double oil control technology and oil balancing control, which ensures more secure and reliable operation of the system.

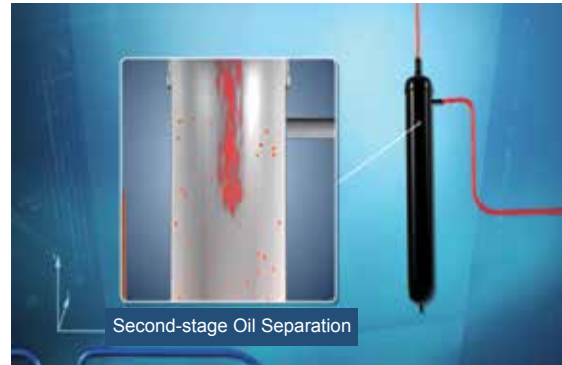
The First-stage Oil Separation

Make first-stage oil separation through efficient oil separation structure inside high-pressure chamber compressor, only a small amount of oil is brought out of the compressor.



The Second-stage Oil Separation

As small amount of oil discharged from the compressor is separated by the second-stage oil separation through large-capacity, high efficiency centrifugal oil separator, the separation efficiency can be over 99%.

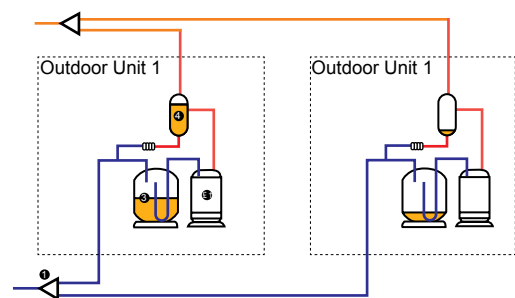


The First-stage Oil-return Control

The accumulator adopts porous oil return technology with a built-in efficient fine strainer; it not only ensures the oil balance between the compressors within the module, but also plays a role in the oil balance between the modules.

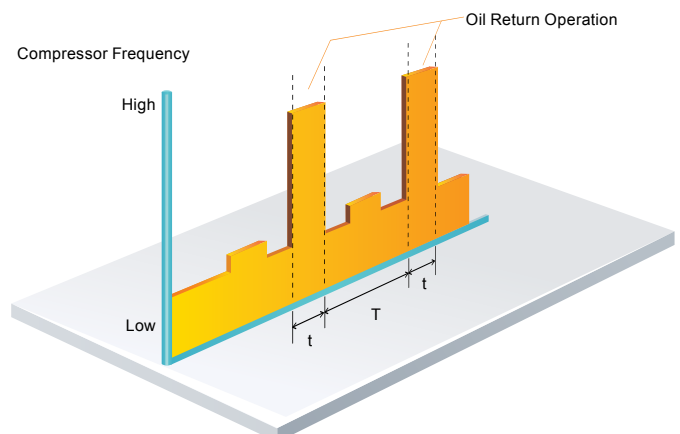


Accumulator



The Second Stage Oil Return Operation

The system implements oil-return operation based on the compressor frequency and corresponding operation time, which avoids the oil retention in the indoor heat exchanger and outdoor heat exchanger when the system is running at low load for a long time, and avoids compressor failure due to lack of refrigeration oil. The oil-return operation time is only 60 seconds. After the oil-return control, it will automatically return to the previous operation state.



Oil Balancing Control Between Outdoor Units

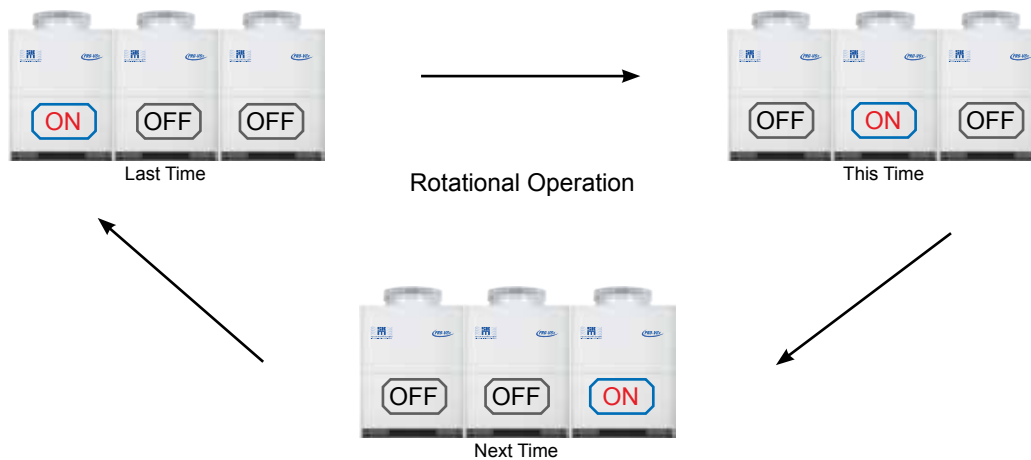
Through adjusting the relationship between the amount of discharge oil and return oil in the compressor, accumulator and the oil separator, it can realize automatic balance of lubricants between the various outdoor units without oil balance pipes, avoid fluctuations of system pressure and temperature caused by oil balance pipe mode, and simplify the construction and improve the operational stability and comfort of system.



Multiple Operation Mode, Ensuring Long Life and Reliable Operation

Rotational Operation

Regulating the operation time of each outdoor unit leads to load reduction on compressors. Therefore, outdoor unit life is improved.



Back-up Operation Function, Satisfying Cooling Requirement Continuously

In multiple compressor outdoor units, in case of failure of one compressor the other will work to meet the cooling requirements.





User Friendly Experience

In order to make the relation more friendly and natural between people and air, people and the environment, SKM PRO-V6x series focuses on user experience in product design and improving the environment-processing and control of air temperature, humidity, speed, cleanliness; moreover, X series pay much attention to the customers' health and convenience in use.

Advocate and Practitioner of Low-carbon Living Space



Environment-friendly Refrigerant

PRO-V6x series products use the efficient and reliable R410A green refrigerant which is non-toxic to humans and will not damage the Earth's ozone layer to create a comfortable and clean living environment for you.

Actively Responding to The Rohs Directive

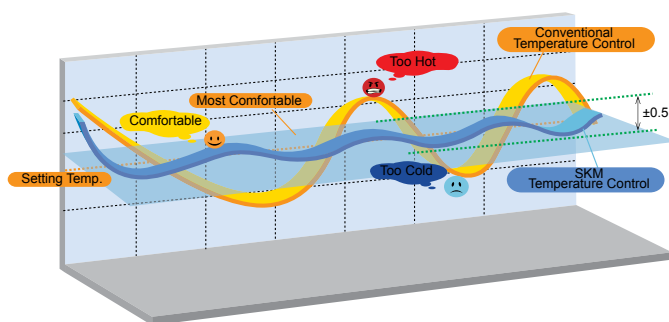
RoHS is short for Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment. The directive bans the use of the following six hazardous substances in electrical and electronic equipment including lead, mercury, cadmium, hexavalent chromium, polybrominated diphenyl ethers (PBDE), and PBB. Actively responding to the European RoHS Directive, SKM VRF has implemented a series of procedures and measures to control hazardous substances. The directive is intended to protect human health and ensure the recycling and the processing of waste electrical and electronic equipment to meet environmental requirements.



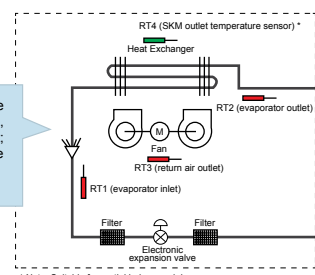
Substances	RoHS limits	Typical Testing Methods
Lead	1000ppm	Wet chemical treatment or X-ray fluorescence
Cadmium	100ppm	Wet chemical treatment or X-ray fluorescence
hexavalent Chromium	1000ppm	Wet chemical treatment or X-ray fluorescence
Mercury	1000ppm	Wet chemical treatment or X-ray fluorescence
PBB/PBDE	1000ppm	GCMS, FTTR, or X-ray fluorescence

Supply Air Temp. Sensor, Three-dimensional Temp Sensing Design, Precise Temp Control

Traditional multi-split air-conditioners control the room temperature according to the indoor return air temperature sensor. PRO-V6x high ambient series adds a wired remote control temperature sensor and air temperature sensor *. The air temperature sensor, return air temperature sensor and room temperature sensor will successfully calculate the indoor temperature precisely adjusting the room supply air temperature.



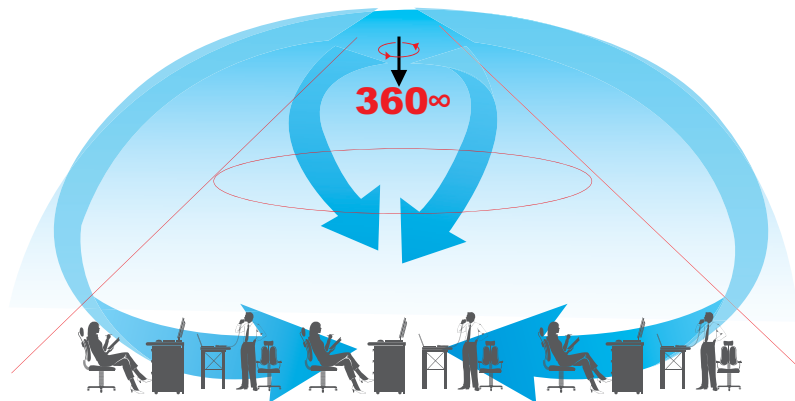
Four indoor temperature sensors on the indoor unit respectively at the trachea, liquid pipe, return air outlet and air outlet; only three temperature sensors on the multi-split air conditioner.



* Note: Suitable for partial indoor models

360° Air Supply

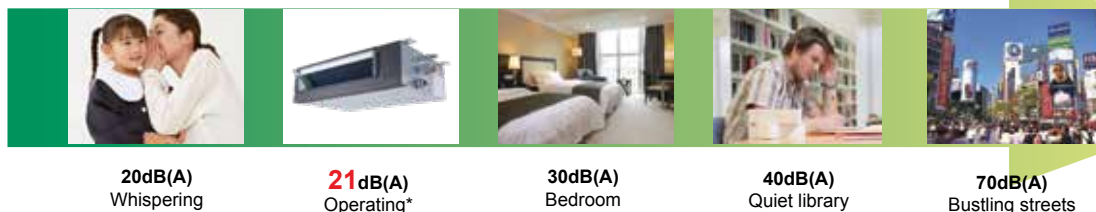
SKM offers 360 degree all directional air flow functionality controlling the vane positions at allow air supply to all corners of the air-conditioned space.



Noise Control Design

Indoor Unit Noise Control

Based on the application occasions of the indoor unit and its structural characteristics, R&D Personnel of SKM do research on technical aspects and installation methods to reduce the noise levels in several aspects, such as electric fan motor, fan blades and duct layout, ensuring that users enjoy a quiet and comfortable air-conditioned environment.



Noise Control of Outdoor Units

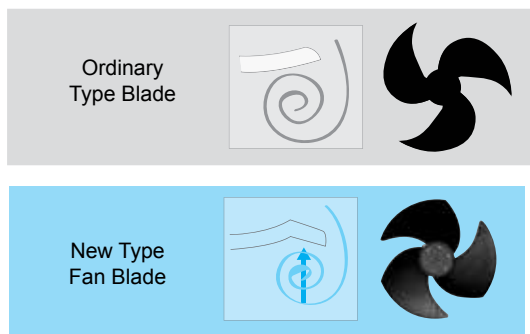
Adopt High Quality Scroll Compressor

Sophisticated manufacturing technology, with characteristics of little vibration and low noise.



New Type Efficient Axial Fan

Develops new type and efficient sector axial fan to reduce turbulence around the fan. Uses special materials to absorb vibration and noise, which can significantly reduce "buzzing" sound.



Optimize the axial air outlet angle and radial air outlet angle

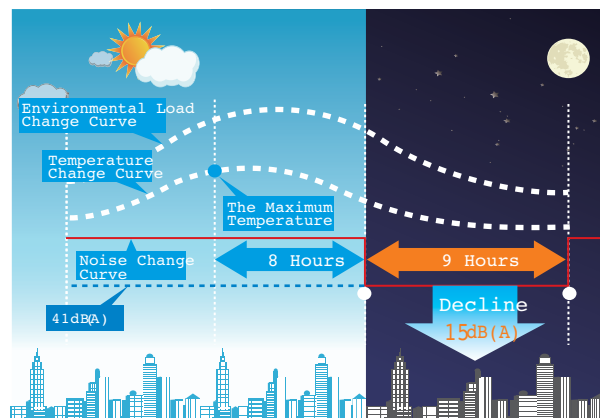
Fan Motor Silencing

The material of fan motor is cast aluminum. The motor bracket is non-resonant hanger structure, which ensures stable motor performance and lowers vibrating noises.



Night Silence Mode

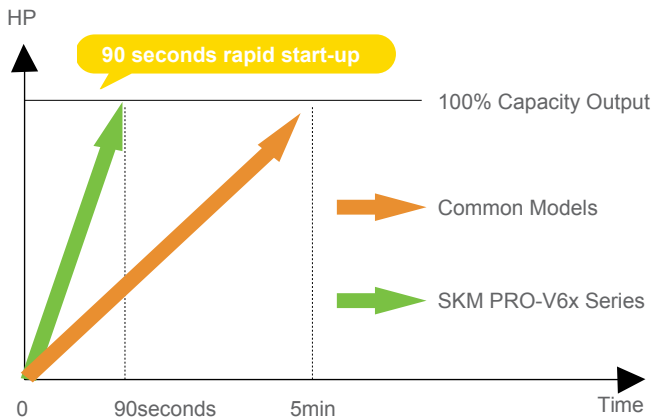
The outdoor unit has a unique Night Mode setting function. The Max. noise level in full load operation at night is 15dB(A) lower than that in normal operation in daytime, only 41dB(A) (for example SK-HPH076)





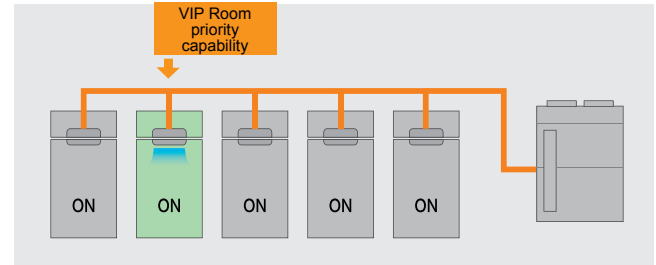
Rapid Heating Start-up

Combining the soft start of DC Inverter compressor and rapid start of fixed speed compressor, the can achieve 100% heating capacity output instantly to meet the air conditioning demand.



VIP setting mode

In the system, the “VIP priority mode” can be set for important air-conditioned rooms. When the system output is limited, the VIP rooms will take the priority to be served.

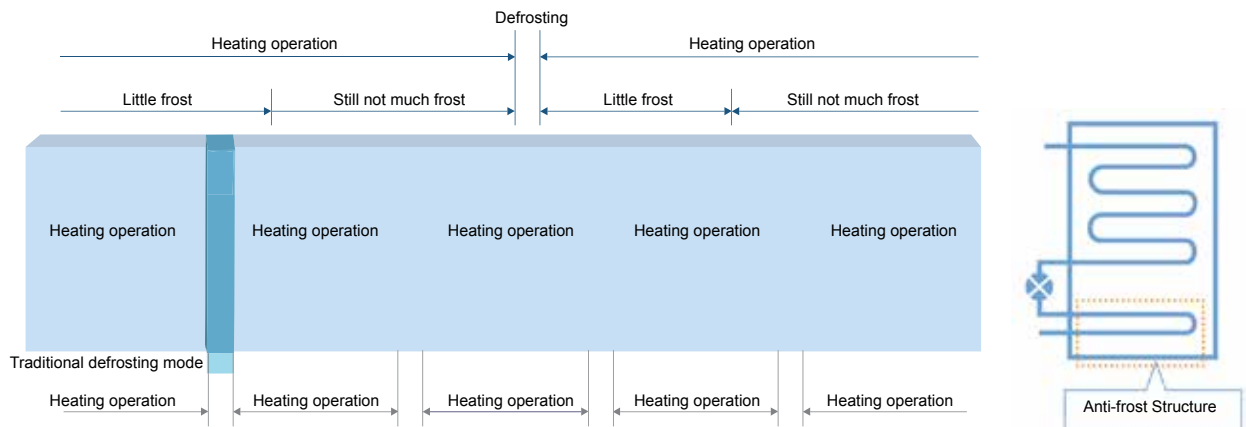


Note: this function is an optional function. It can be set according to the actual requirement (a system can set max. 5 indoor units as VIP). Under the severe operation conditions, other indoor units' capability may be influenced when customers use this function.

Intelligent Defrosting Mode

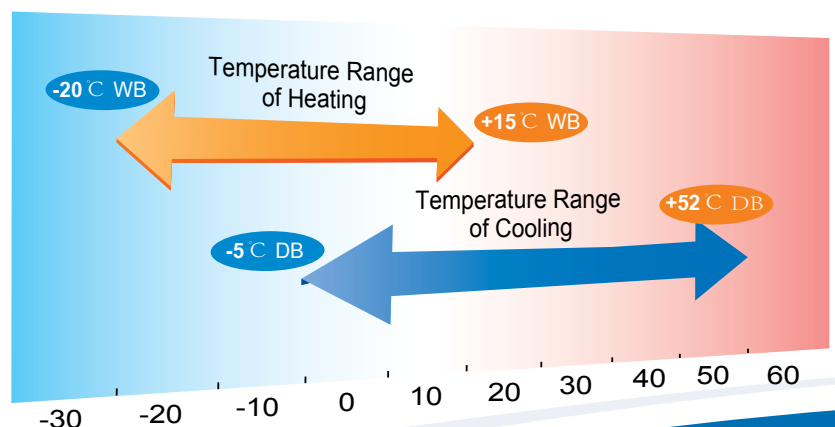
The outdoor unit has 3 sensors for defrosting mode. Also, it has an anti-frost structure at the bottom, both of which reduces the amount of frost to only 1/3 compared to ordinary defrosting mode.

SKM Optimal Defrost Mode



Wide Operating Range

With a wide operating temperature range, the outdoor unit can operate from -20°C to 15°C. The heating effect in winter is strong, which perfectly meets the customers' needs in different environments. The unit is able to operate in -20°C ambient, when the unit is heating mode and also operate at 52°C ambient in cooling mode.



Flexible Design And Installation

Every detail of SKM PRO-V6x series is considered while designing. The diverse models, super-long piping design and layering method realize the convenient installation and maintenance.

Light Weight Making Transportation and Installation Easier

A basic unit (MAX. 16HP) can be lifted by the elevator. The lightweight and compact design makes the unit convenient to transfer and install.

Volume suitable to be delivered by elevators



Extra Long Pipe Enabling The Height Difference Between Indoor and Outdoor Units up to 90 Meters *

With extra long pipe, the height difference between the indoor unit and outdoor unit is up to 90 meters *, which makes installation more flexible.

Maximum length of a single pipe: **190m**
Total length of pipes: **1000m**

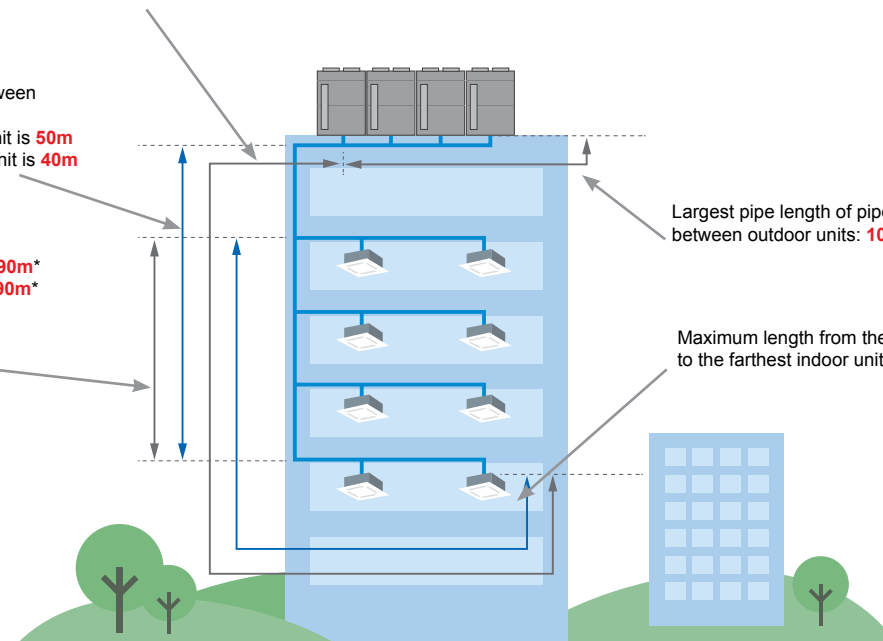
Maximum height difference between indoor and outdoor units:
the upper face of the outdoor unit is **50m**
and the bottom of the outdoor unit is **40m**

By the note corresponding:
when the outdoor unit is above **90m***
when the outdoor unit is below **90m***

Maximum height difference of indoor units: **30m**

Largest pipe length of pipes between outdoor units: **10m**

Maximum length from the first branch pipe to the farthest indoor unit: **90m**

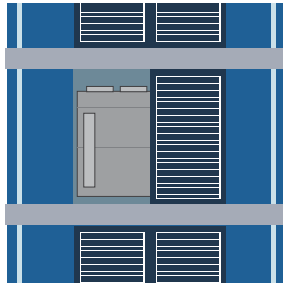


*NOTE: For detailed information, please consult the technical staff.

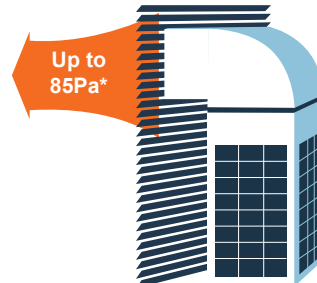


ODU Unit Fan Static Pressure Adjustment For Flexible Installation Space

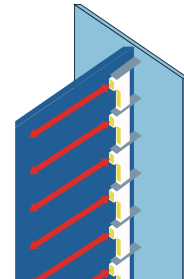
With static pressure adaptive technology, the fan of the outdoor unit can be adjusted in free static pressure based on system requirements to meet a variety of needs in different environments. The maximum external static pressure of the outdoor unit can be up to 85Pa *, which provides better conditions for the layered installation and centralized installation. Higher static pressure and further distance of air supply of the outdoor unit ensure the smooth flow of air and solve condensing problems of the outdoor unit effectively.



Layered installing outdoor units easily dealing with heat dissipation problem.



Easy to conceal outdoor unit, good looking of facades



Air flow diagram

*Note: By the note corresponding, external static pressure of the outdoor unit can be up to 85Pa. For detailed information, please contact SKM's technical staff.

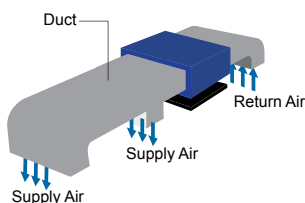
Wide range and capacity of indoor units

Wide capacity range of outdoor units enables free model combination according to the actual situation of building. There are 12 types of indoor units for selection. Customers can choose appropriate type and capacity of indoor units according to interior decoration and functions.

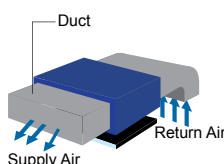


Flexible duct installation

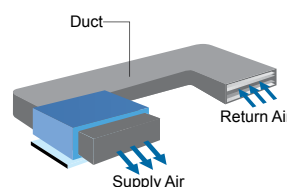
According to different construction structures and interior decoration of buildings, users can now select different duct layouts to suite recommended designer requests. The flexibility of return air applications allow SKM to fit most interior decoration demands and meet all layout requirements.



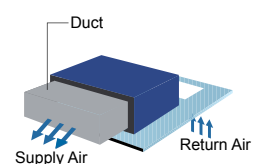
Ceiling Supply Ceiling Return



Side Supply Ceiling Return



Side Supply Side Return

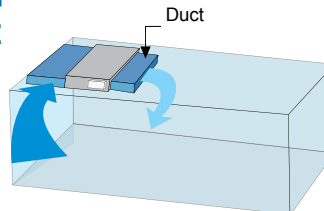


Side Supply Ceiling Return without Air Return Duct

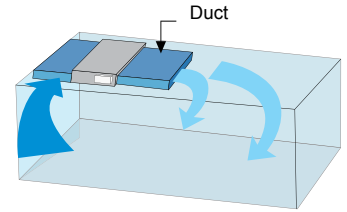
Note: Side Supply Bottom Return will increase the noise level by 5-10 dB. It is not recommended to use in the environment which has high level requirement of noise.

Indoor Unit Static Pressure Adjustment

The indoor unit can be automatically adjusted to suite the static pressure of the installed duct length at the site to ensure correct supply air required.



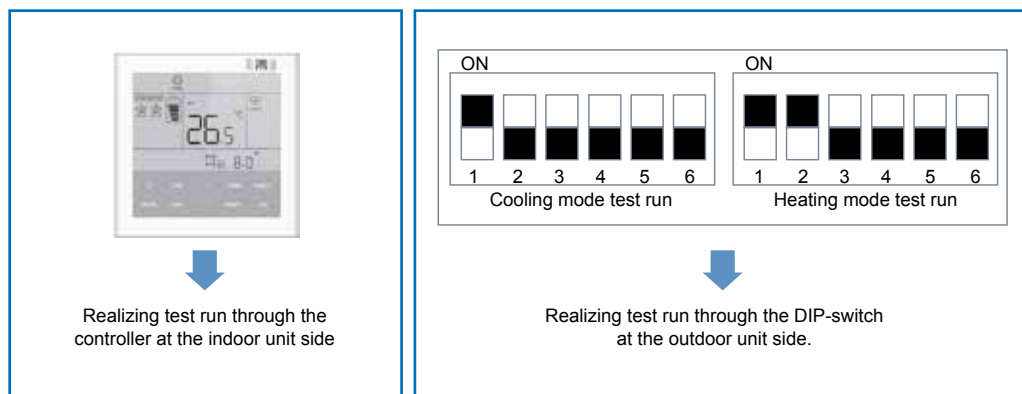
When the required duct is shorter, the static pressure is lower.



When the required duct is longer, the static pressure is higher.

Advanced Commissioning Technology

There is a one-key commissioning on either side of the outdoor unit or the indoor unit to facilitate on-site commissioning adjustment and enhance the installation quality of the project site.



- Automatically detect whether the main powers of the indoor and outdoor units in reverse phase or phase loss.
- Automatically detect the abnormal communication between the outdoor unit board and the inverter motherboard.
- Automatically detect and confirm the wrong wiring of the indoor and outdoor units.
- Automatically identify the length of pipes, correct and optimize the operation based on the length of pipes.
- Automatically detect and confirm the operation status of the parts inside the air conditioning units such as compressors, fan motors, electronic expansion valves, four-way valves, solenoid valves, etc. to ensure that they are all in normal operation.

Indoor Unit Power-down Emergency Maintenance

When a faulty indoor unit needs repairing, it can be powered off alone without affecting the entire system.





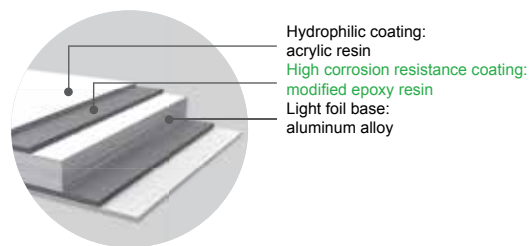
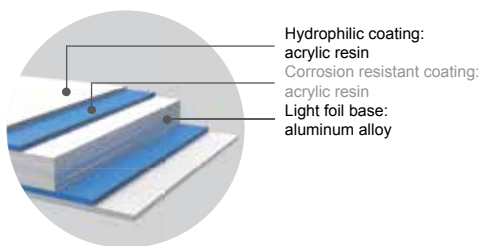
SKM Anti-corrosion Black Fin (optional)

The main film forming resins of traditional blue anticorrosive fins are acrylic resins and the film forming resins of SKM anticorrosive fins are epoxy resins. The film thickness of epoxy resin is 1.5 times that of acrylic resin, and its acid-resistant, alkali-resistant and salt-fog resistant properties are 3 times that of acrylic resin.

Conventional Blue Fin



SKM Anti-corrosion Black Fin



Notes: This black fin can achieve 1500h corrosion resistance under the following conditions: neutral salt spray test, 5% NaCl, 35°C

SKM VRF with Anti-corrosion Black Fin



Intelligent Checking for Refrigerant Pipe Connection

Using high pressure sensor, low pressure sensor together with compressor air outlet temperature sensor to monitor the refrigerant running condition of the system, find and adjust the problems of the refrigerant pipe (such as wrong connection, leakage and so on), to avoid future failures and damages.

Intelligent Checking and Correcting for Wrong Phase Sequence

Adoption of DC inverter motor for compressor, and DC inverter fan motor, with advanced automatic checking and sequence self correcting design, system can automatically correct wrong phase wire connection when it happens.

Automatic Recovery Function of Electrical Control System

While system facing higher temperature, overcurrent, over high or over low of refrigerant pressure, the control circuit will alarm and recover it automatically and keep the system to run under suitable temperature, current and refrigerant pressure, increasing the reliability and extending the life of system.

High Quality Product Lineup

SKM PRO-V6x series provides a wide selection of indoor units for indoor decoration and creates a personalized living space.

PRO-V6x Series central air conditioning meets all the needs of people for space environment, interior decoration and human health with high-quality multi-choice indoor units, outdoor units and fresh air units, providing people with a new central air-conditioning experience.

Extensive outdoor unit products, a single module unit is up to a maximum of 16HP and combined module is up to a maximum of 64HP, which can meet the actual needs of larger and more space.

There 12 different type of indoor units for customers to choose . Customers can select in accordance with the interior decoration and design, which brings a perfect combination from comfort to aesthetic experience.

Taking full consideration of the various requirements of people for the indoor environment, the efficient fresh air unit products can solve the problems of fresh air issues, and make your work and life more healthy.



Diverse Selection of Outdoor Units

PRO-V6x Series offers five single module outdoor units of 8HP, 10HP, 12HP, 14HP, 16HP. The capacity of combination module is up to 64HP, with small size, light weight and diverse combination. Users can choose different products and combinations to meet their own space requirements according to their actual needs.

Capacity	Model	Cooling Capacity (kW)	Outdoor Unit Combination					Max. Number of Connectable Indoor Units
			8HP1	10HP	12HP	14HP	6HP	
8HP	SK-HPH076DXXY	22.4						8
10HP	SK-HPH096DXXY	28.0						10
12HP	SK-HPH114DXXY	33.5						12
14HP	SK-HPH136DXXY	40.0						16
16HP	SK-HPH154DXXY	45.0						16
18HP	SK-HPH172DXXY	50.4						18
20HP	SK-HPH190DXXY	56.0						20
22HP	SK-HPH210DXXY	61.5						22
24HP	SK-HPH229DXXY	67.0						26
26HP	SK-HPH250DXXY	73.5						26
28HP	SK-HPH268DXXY	78.5						28
30HP	SK-HPH290DXXY	85.0						32
32HP	SK-HPH307DXXY	90.0						32
34HP	SK-HPH324DXXY	95.0						36
36HP	SK-HPH343DXXY	101.0						36
38HP	SK-HPH365DXXY	107.0						38
40HP	SK-HPH386DXXY	112.0						42
42HP	SK-HPH404DXXY	118.5						42
44HP	SK-HPH420DXXY	123.5						44
46HP	SK-HPH444DXXY	130.0						48
48HP	SK-HPH460DXXY	135.0						48
50HP	SK-HPH480DXXY	140.4						50
52HP	SK-HPH500DXXY	146.0						52
54HP	SK-HPH520DXXY	151.5						54
56HP	SK-HPH540DXXY	157.0						56
58HP	SK-HPH560DXXY	163.5						60
60HP	SK-HPH580DXXY	168.5						60
62HP	SK-HPH600DXXY	175.0						64
64HP	SK-HPH620DXXY	180.0						64

Outdoor Unit Specifications

Outdoor Unit			 				
Items							
HP			8HP	10HP	12HP	14HP	16HP
Model			SK-HPH076DXXY	SK-HPH096DXXY	SK-HPH114DXXY	SK-HPH136DXXY	SK-HPH154DXXY
Combination			—	—	—	—	—
Power Supply			3Φ/380-415V/50Hz				
Cooling Operation	Cooling Capacity	kW	22.4	28.0	33.5	40.0	45.0
		kBut/h	76.5	95.6	114.3	136.5	153.5
	Power Consumption	kW	5.25	7.31	8.57	11.05	13.16
		EER	kW/kW	4.27	3.83	3.91	3.62
Heating Operation	Heating Capacity	kW	25.0	31.5	37.5	45.0	50.0
		KBtu/h	85.3	107.5	128.0	153.5	170.6
	Power Consumption	kW	5.62	7.61	8.89	11.08	12.47
		COP		4.45	4.14	4.22	4.06
Air Flow Rate		m³/min	155	170	175	190	190
Outer Dimension	H	mm	1720	1720	1720	1720	1720
	W	mm	950	950	1210	1210	1210
	D	mm	750	750	750	750	750
Net Weight		kg	197	197	224	227	247
Gross Weight		kg	223	223	248	250	272
Cabinet Color			Ivory white				
Gas Line		mm	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6
Liquid Line		mm	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7
Max.Indoor Unit Connectable		-	13	16	19	23	26
Max.Single Piping Length		m	190	190	190	190	190
Height Difference	Between Outdoor and Indoor Units	m	50(90 ^{*1})/40(90 ^{*1})	50(90 ^{*1})/40(90 ^{*1})	50(90 ^{*1})/40(90 ^{*1})	50(90 ^{*1})/40(90 ^{*1})	50(90 ^{*1})/40(90 ^{*1})
	Between Indoor Units	m	15(30 ^{*1})	15(30 ^{*1})	15(30 ^{*1})	15(30 ^{*1})	15(30 ^{*1})
Noise Level		dB(A)	62/54	64/55	64/56	65/57	66/58
Operation Range	Cooling Mode	℃ DB	-5~52 ^{*2}				
	HeatingMode	℃ WB	-20~15				

Note:

1. Rated cooling capacity capacity is tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m

Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m

2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

3. The final appearance of outdoor units is subject to the actual products.

4. For data marked by *1, please contact with our professional engineer.

5. For data marked by *2, when the operation temperature is under 48~52°C, please contact with our professional engineer.



Outdoor Unit Specifications

					
18HP	20HP	22HP	24HP	26HP	
SK-HPH172DXXY	SK-HPH190DXXY	SK-HPH210DXXY	SK-HPH229DXXY	SK-HPH250DXXY	
SK-HPH076DXXY SK-HPH096DXXY	SK-HPH076DXXY SK-HPH114DXXY	SK-HPH096DXXY SK-HPH114DXXY	SK-HPH114DXXY SK-HPH114DXXY	SK-HPH114DXXY SK-HPH136DXXY	
3Φ/380-415V/50Hz					
50.4	56.0	61.5	67.0	73.5	
172.0	191.1	209.8	228.6	250.8	
12.56	13.82	15.88	17.14	19.62	
4.01	4.05	3.87	3.91	3.75	
56.5	62.5	69.0	75.0	82.5	
192.8	213.3	235.5	256.0	281.5	
13.23	14.51	16.5	17.78	19.97	
4.27	4.31	4.18	4.22	4.13	
155+170	155+175	170+175	175+175	175+190	
1720	1720	1720	1720	1720	
950+950	950+1210	950+1210	1210+1210	1210+1210	
750	750	750	750	750	
197+197	197+224	197+224	224+224	224+227	
223+223	223+248	223+248	248+248	248+250	
Ivory white					
Φ28.6	Φ28.6	Φ28.6	Φ28.6	Φ31.75	
Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	
26	33	36	40	43	
190	190	190	190	190	
50(90°)/40(90°)	50(90°)/40(90°)	50(90°)/40(90°)	50(90°)/40(90°)	50(90°)/40(90°)	
15(30°)	15(30°)	15(30°)	15(30°)	15(30°)	
66/57	68/60	68/60	68/60	68/60	
-5~52*2					
-20~15					

Note:

- Rated cooling capacity capacity is tested in the following conditions:
Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m
- The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.
- The final appearance of outdoor units is subject to the actual products.
- For data marked by *1, please contact with our professional engineer.
- For data marked by *2, when the operation temperature is under 48~52°C, please contact with our professional engineer.

Outdoor Unit Specifications

Outdoor Unit					
Items					
HP			28HP	30HP	32HP
Model			SK-HPH268DXXY	SK-HPH290DXXY	SK-HPH307DXXY
Combination			SK-HPH114DXXY SK-HPH154DXXY	SK-HPH136DXXY SK-HPH154DXXY	SK-HPH154DXXY SK-HPH154DXXY
Power Supply			3Φ/380-415V/50Hz		
Cooling Operation	Cooling Capacity	kW	78.5	85.0	90.0
		kBut/h	267.8	290.0	307.1
	Power Consumption	kW	21.73	24.21	26.32
		EER	kW/kW	3.61	3.51
Heating Operation	Heating Capacity	kW	87.5	95.0	100.0
		KBtu/h	298.6	324.1	341.2
	Power Consumption	kW	21.36	23.55	24.94
		COP		4.10	4.03
Air Flow Rate		m³/min	175+190	190+190	190+190
Outer Dimension	H	mm	1720	1720	1720
	W	mm	1210+1210	1210+1210	1210+1210
	D	mm	750	750	750
Net Weight		kg	224+247	227+247	247+247
Gross Weight		kg	248+272	250+272	272+272
Cabinet Color			Ivory white		
Gas Line		mm	Φ31.75	Φ31.75	Φ31.75
Liquid Line		mm	Φ19.05	Φ19.05	Φ19.05
Max.Indoor Unit Connectable		-	47	50	53
Max.Single Piping Length		m	190	190	190
Height Difference	Between Outdoor and Indoor Units	m	50(90*1)/40(90*1)	50(90*1)/40(90*1)	50(90*1)/40(90*1)
	Between Indoor Units	m	15(30*1)	15(30*1)	15(30*1)
Noise Level		dB(A)	69/61	69/61	69/62
Operation Range	Cooling Mode	℃ DB	-5~52*2		
	HeatingMode	℃ WB	-20~15		

Note:

1. Rated cooling capacity capacity is tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m

Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m

2.The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

3.The final appearance of outdoor units is subject to the actual products.

4.For data marked by *1, please contact with our professional engineer.

5.For data marked by *2, when the operation temperature is under 48~52°C, please contact with our professional engineer.



Outdoor Unit Specifications

 				
34HP	36HP	38HP	40HP	42HP
SK-HPH324DXXY	SK-HPH343DXXY	SK-HPH365DXXY	SK-HPH386DXXY	SK-HPH404DXXY
SK-HPH096DXXY SK-HPH114DXXY SK-HPH114DXXY	SK-HPH114DXXY SK-HPH114DXXY SK-HPH114DXXY	SK-HPH114DXXY SK-HPH114DXXY SK-HPH136DXXY	SK-HPH114DXXY SK-HPH114DXXY SK-HPH154DXXY	SK-HPH114DXXY SK-HPH136DXXY SK-HPH154DXXY
3Φ/380-415V/50Hz				
96.0	100.5	107.0	113.0	118.5
327.6	342.9	365.1	385.6	404.3
24.45	25.71	28.19	30.3	32.78
3.93	3.91	3.80	3.73	3.62
106.5	112.5	120.0	125.0	132.5
363.5	384.0	409.5	426.6	452.1
25.39	26.67	28.86	30.25	32.44
4.19	4.22	4.16	4.13	4.08
170+175+175	175+175+175	175+175+190	175+175+190	175+190+190
1720	1720	1720	1720	1720
950+1210+1210	1210+1210+1210	1210+1210+1210	1210+1210+1210	1210+1210+1210
750	750	750	750	750
197+224+224	224+224+224	224+224+227	224+224+247	224+227+247
223+248+248	248+248+248	248+248+250	248+248+272	248+250+272
Ivory white				
Φ31.75	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
56	59	64	64	64
190	190	190	190	190
50(90°1)/40(90°1)	50(90°1)/40(90°1)	50(90°1)/40(90°1)	50(90°1)/40(90°1)	50(90°1)/40(90°1)
15(30°1)	15(30°1)	15(30°1)	15(30°1)	15(30°1)
70/63	70/63	71/64	71/64	71/64
-5~52*2				
-20~15				

Note:

1. Rated cooling capacity capacity is tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m
Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m

2.The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

3.The final appearance of outdoor units is subject to the actual products.

4.For data marked by *1, please contact with our professional engineer.

5.For data marked by *2, when the operation temperature is under 48~52°C, please contact with our professional engineer.

Outdoor Unit Specifications

Outdoor Unit					
Items					
HP			44HP	46HP	48HP
Model			SK-HPH420DXXY	SK-HPH444DXXY	SK-HPH460DXXY
Combination			SK-HPH114DXXY SK-HPH154DXXY SK-HPH154DXXY	SK-HPH136DXXY SK-HPH154DXXY SK-HPH154DXXY	SK-HPH154DXXY SK-HPH154DXXY SK-HPH154DXXY
Power Supply			3Φ/380-415V/50Hz		
Cooling Operation	Cooling Capacity	kW	123.5	130.0	135.0
		kBut/h	421.1	443.6	460.6
	Power Consumption	kW	34.89	37.37	39.48
		EER	kW/kW	3.54	3.48
Heating Operation	Heating Capacity	kW	137.5	145.0	150.0
		KBtu/h	469.2	494.7	511.8
	Power Consumption	kW	33.83	36.02	37.41
		COP		4.06	4.03
Air Flow Rate		m³/min	175+190+190	190+190+190	190+190+190
Outer Dimension	H	mm	1720	1720	1720
	W	mm	1210+1210+1210	1210+1210+1210	1210+1210+1210
	D	mm	750	750	750
Net Weight		kg	224+247+247	227+247+247	247+247+247
Gross Weight		kg	248+272+272	250+272+272	272+272+272
Cabinet Color			Ivory white		
Gas Line		mm	Φ38.1	Φ38.1	Φ38.1
Liquid Line		mm	Φ19.05	Φ19.05	Φ19.05
Max.Indoor Unit Connectable		-	64	64	64
Max.Single Piping Length		m	190	190	190
Height Difference	Between Outdoor and Indoor Units	m	50(90 ^{*1})/40(90 ^{*1})	50(90 ^{*1})/40(90 ^{*1})	50(90 ^{*1})/40(90 ^{*1})
	Between Indoor Units	m	15(30 ^{*1})	15(30 ^{*1})	15(30 ^{*1})
Noise Level		dB(A)	72/65	72/65	72/65
Operation Range	Cooling Mode	℃ DB	-5~52 ^{*2}		
	HeatingMode	℃ WB	-20~15		

Note:

1. Rated cooling capacity is tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m

Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m

2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

3. The final appearance of outdoor units is subject to the actual products.

4. For data marked by *1, please contact with our professional engineer.

5. For data marked by *2, when the operation temperature is under 48~52°C, please contact with our professional engineer.



Outdoor Unit Specifications

											
50HP		52HP		54HP		56HP		58HP			
SK-HPH480DXXY		SK-HPH500DXXY		SK-HPH520DXXY		SK-HPH540DXXY		SK-HPH560DXXY			
SK-HPH114DXXY		SK-HPH114DXXY		SK-HPH114DXXY		SK-HPH114DXXY		SK-HPH114DXXY			
SK-HPH114DXXY		SK-HPH114DXXY		SK-HPH114DXXY		SK-HPH114DXXY		SK-HPH136DXXY			
SK-HPH114DXXY		SK-HPH136DXXY		SK-HPH136DXXY		SK-HPH154DXXY		SK-HPH154DXXY			
SK-HPH136DXXY		SK-HPH136DXXY		SK-HPH154DXXY		SK-HPH154DXXY		SK-HPH154DXXY			
3Φ/380-415V/50Hz											
140.4		146.0		151.5		157.0		163.5			
479		498.2		516.9		535.7		557.9			
36.76		39.24		41.35		43.46		45.94			
3.82		3.72		3.66		3.61		3.56			
156.5		163.0		169.0		175.0		182.5			
534.0		556.2		576.6		597.1		622.7			
37.75		39.94		41.33		42.72		44.91			
4.15		4.08		4.09		4.10		4.06			
175+175+175+190		175+175+190+190		175+175+190+190		175+175+190+190		175+190+190+190			
1,720		1,720		1,720		1720		1720			
1,210+1,210+1,210+1,210		1,210+1,210+1,210+1,210		1,210+1,210+1,210+1,210		1210+1210+1210+1210		1210+1210+1210+1210			
750		750		750		750		750			
224+224+224+227		224+224+227+227		224+224+227+247		224+224+247+247		224+227+247+247			
248+248+248+250		248+248+250+250		248+248+250+272		248+248+272+272		248+250+272+272			
Ivory white											
Φ41.3		Φ41.3		Φ41.3		Φ41.3		Φ44.5			
Φ22.2		Φ22.2		Φ22.2		Φ22.2		Φ22.2			
64		64		64		64		64			
190		190		190		190		190			
50(90°1)/40(90°1)		50(90°1)/40(90°1)		50(90°1)/40(90°1)		50(90°1)/40(90°1)		50(90°1)/40(90°1)			
15(30°1)		15(30°1)		15(30°1)		15(30°1)		15(30°1)			
73/66		73/66		73/66		73/66		74/67			
-5~-52 ^{*2}											
-20~15											

Note:

1. Rated cooling capacity capacity is tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27°C DB 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m

Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference: 0m

2.The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

3.The final appearance of outdoor units is subject to the actual products.

4.For data marked by *1, please contact with our professional engineer.

5.For data marked by *2, when the operation temperature is under 48~52°C, please contact with our professional engineer.

Outdoor Unit Specifications

Outdoor Unit					
Items					
HP			60HP	62HP	64HP
Model			SK-HPH580DXXY	SK-HPH600DXXY	SK-HPH620DXXY
Combination			SK-HPH114DXXY SK-HPH154DXXY SK-HPH154DXXY SK-HPH154DXXY	SK-HPH136DXXY SK-HPH154DXXY SK-HPH154DXXY SK-HPH154DXXY	SK-HPH154DXXY SK-HPH154DXXY SK-HPH154DXXY SK-HPH154DXXY
Power Supply			3Φ/380-415V/50Hz		
Cooling Operation	Cooling Capacity	kW	168.5	175.0	180.0
		kBut/h	574.9	597.1	614.2
	Power Consumption	kW	48.05	50.53	52.64
	EER	kW/kW	3.51	3.46	3.42
Heating Operation	Heating Capacity	kW	187.5	195.0	200.0
		KBtu/h	639.8	665.3	682.4
	Power Consumption	kW	46.3	48.49	49.88
	COP		4.05	4.02	4.01
Air Flow Rate		m³/min	175+190+190+190	190+190+190+190	190+190+190+190
Outer Dimension	H	mm	1720	1720	1720
	W	mm	1210+1210+1210+1210	1210+1210+1210+1210	1210+1210+1210+1210
	D	mm	750	750	750
Net Weight		kg	224+247+247+247	227+247+247+247	247+247+247+247
Gross Weight		kg	248+272+272+272	250+272+272+272	272+272+272+272
Cabinet Color			Ivory white		
Gas Line		mm	Φ44.5	Φ44.5	Φ44.5
Liquid Line		mm	Φ22.2	Φ22.2	Φ22.2
Max.Indoor Unit Connectable		-	64	64	64
Max.Single Piping Length		m	190	190	190
Height Difference	Between Outdoor and Indoor Units	m	50(90*1)/40(90*1)	50(90*1)/40(90*1)	50(90*1)/40(90*1)
	Between Indoor Units	m	15(30*1)	15(30*1)	15(30*1)
Noise Level		dB(A)	74/67	74/67	74/67
Operation Range	Cooling Mode	℃ DB	-5~52*2		
	HeatingMode	℃ WB	-20~15		

Note:

1. Rated cooling capacity is tested in the following conditions:

Cooling conditions: indoor air inlet temperature: 27°C DB, 19°C WB, Outdoor air inlet temperature: 35°C DB, pipe length : 7.5m, pipe height difference: 0m

Heating conditions: indoor air inlet temperature: 20°C DB, Outdoor air inlet temperature: 7°C DB 6°C WB, pipe length: 7.5m, pipe height difference : 0m

2. The above noise values are measured in the anechoic chamber without reflected echo, therefore the impact of the reflected echo must be included at the scene.

3. The final appearance of outdoor units is subject to the actual products.

4. For data marked by *1, please contact with our professional engineer.

5. For data marked by *2, when the operation temperature is under 48~52°C, please contact with our professional engineer.



Piping Connection Kits

Main Pipe (When the Piping Length < 100m)

Model	SK-HPH076DXXY	SK-HPH096DXXY	SK-HPH114DXXY	SK-HPH136DXXY	SK-HPH154DXXY	SK-HPH172DXXY
Gas Pipe	Φ19.05	Φ22.2	Φ25.4	Φ25.4	Φ28.6	Φ28.6
Liquid Pipe	Φ9.53	Φ9.53	Φ12.7	Φ12.7	Φ12.7	Φ15.88
The First Branch Pipe	HSB-II0010	HSB-II0010	HSB-II0020	HSB-II0020	HSB-II0020	HSB-II0030

Model	SK-HPH190DXXY	SK-HPH210DXXY	SK-HPH229DXXY	SK-HPH250DXXY	SK-HPH268DXXY	SK-HPH290DXXY
Gas Pipe	Φ28.6	Φ28.6	Φ28.6	Φ31.75	Φ31.75	Φ31.75
Liquid Pipe	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ19.05	Φ19.05
The First Branch Pipe	HSB-II0030	HSB-II0030	HSB-II0030	HSB-II0040	HSB-II0040	HSB-II0040

Model	SK-HPH307DXXY	SK-HPH324DXXY	SK-HPH343DXXY	SK-HPH365DXXY	SK-HPH386DXXY	SK-HPH404DXXY
Gas Pipe	Φ31.75	Φ31.75	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Liquid Pipe	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05	Φ19.05
The First Branch Pipe	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040

Model	SK-HPH420DXXY	SK-HPH444DXXY	SK-HPH460DXXY	SK-HPH480DXXY	SK-HPH500DXXY	SK-HPH520DXXY
Gas Pipe	Φ38.1	Φ38.1	Φ38.1	Φ41.3	Φ41.3	Φ41.3
Liquid Pipe	Φ19.05	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ22.2
The First Branch Pipe	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0050	HSB-II0050	HSB-II0050

Model	SK-HPH540DXXY	SK-HPH560DXXY	SK-HPH580DXXY	SK-HPH600DXXY	SK-HPH620DXXY
Gas Pipe	Φ41.3	Φ44.5	Φ44.5	Φ44.5	Φ44.5
Liquid Pipe	Φ22.2	Φ22.2	Φ22.2	Φ22.2	Φ22.2
The First Branch Pipe	HSB-II0050	HSB-II0050	HSB-II0050	HSB-II0050	HSB-II0050

Main Pipe (When the Piping Length > 100m)

Model	SK-HPH076DXXY	SK-HPH096DXXY	SK-HPH114DXXY	SK-HPH136DXXY	SK-HPH154DXXY	SK-HPH172DXXY
Gas Pipe	Φ22.2	Φ25.4	Φ28.6	Φ28.6	Φ31.75	Φ31.75
Liquid Pipe	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ19.05
The First Branch Pipe	HSB-II0020	HSB-II0020	HSB-II0030	HSB-II0030	HSB-II0030	HSB-II0040

Model	SK-HPH190DXXY	SK-HPH210DXXY	SK-HPH229DXXY	SK-HPH250DXXY	SK-HPH268DXXY	SK-HPH290DXXY
Gas Pipe	Φ31.75	Φ31.75	Φ31.75	Φ38.1	Φ38.1	Φ38.1
Liquid Pipe	Φ19.05	Φ19.05	Φ19.05	Φ22.2	Φ22.2	Φ22.2
The First Branch Pipe	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040

Model	SK-HPH307DXXY	SK-HPH324DXXY	SK-HPH343DXXY	SK-HPH365DXXY	SK-HPH386DXXY	SK-HPH404DXXY
Gas Pipe	Φ38.1	Φ38.1	Φ41.3	Φ41.3	Φ41.3	Φ41.3
Liquid Pipe	Φ22.2	Φ22.22	Φ22.22	Φ22.22	Φ22.22	Φ22.22
The First Branch Pipe	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0040

Model	SK-HPH420DXXY	SK-HPH444DXXY	SK-HPH460DXXY	SK-HPH480DXXY	SK-HPH500DXXY	SK-HPH520DXXY
Gas Pipe	Φ41.3	Φ41.3	Φ41.3	Φ44.5	Φ44.5	Φ44.5
Liquid Pipe	Φ22.22	Φ22.22	Φ22.22	Φ25.4	Φ25.4	Φ25.4
The First Branch Pipe	HSB-II0040	HSB-II0040	HSB-II0040	HSB-II0060	HSB-II0060	HSB-II0060

Model	SK-HPH540DXXY	SK-HPH560DXXY	SK-HPH580DXXY	SK-HPH600DXXY	SK-HPH620DXXY
Gas Pipe	Φ44.5	Φ50.8	Φ50.8	Φ50.8	Φ50.8
Liquid Pipe	Φ25.4	Φ25.4	Φ25.4	Φ25.4	Φ25.4
The First Branch Pipe	HSB-II0060	HSB-II0060	HSB-II0060	HSB-II0060	HSB-II0060



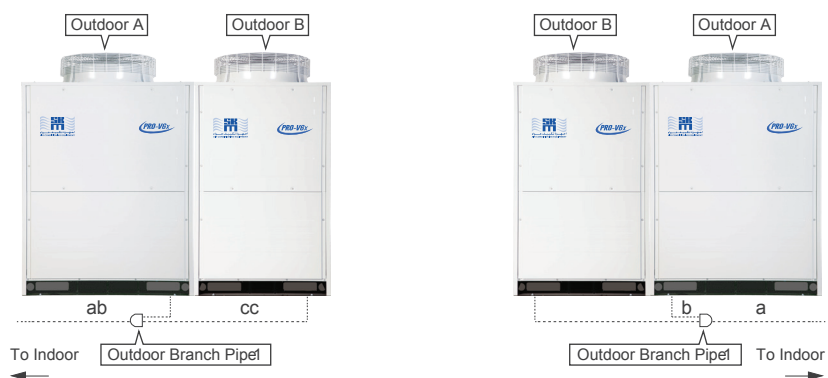
The First Branch Pipe ~ The Last Branch Pipe

Total Indoor Unit Capacity(kBtu/h)	$Q < 57$	$57 \leq Q < 86.0$	$86 \leq Q < 114$	$115 \leq Q < 154$	$154 \leq Q < 172.0$
Gas Pipe	$\Phi 15.88$	$\Phi 19.05$	$\Phi 22.2$	$\Phi 25.4$	$\Phi 28.6$
Liquid Pipe	$\Phi 9.53$	$\Phi 9.53$	$\Phi 9.53$	$\Phi 12.7$	$\Phi 12.7$
Branch Pipe	HSB-II0010	HSB-II0010	HSB-II0010	HSB-II0020	HSB-II0020

Total Indoor Unit Capacity(kBtu/h)	$172.0 \leq Q < 250$	$250 \leq Q < 343$	$343 \leq Q < 460$	$460 \leq Q < 540$	$540 \leq Q < 620$
Gas Pipe	$\Phi 28.6$	$\Phi 31.75$	$\Phi 38.1$	$\Phi 41.3$	$\Phi 44.5$
Liquid Pipe	$\Phi 15.88$	$\Phi 19.05$	$\Phi 19.05$	$\Phi 22.2$	$\Phi 22.2$
Branch Pipe	HSB-II0030	HSB-II0040	HSB-II0040	HSB-II0050	HSB-II0050

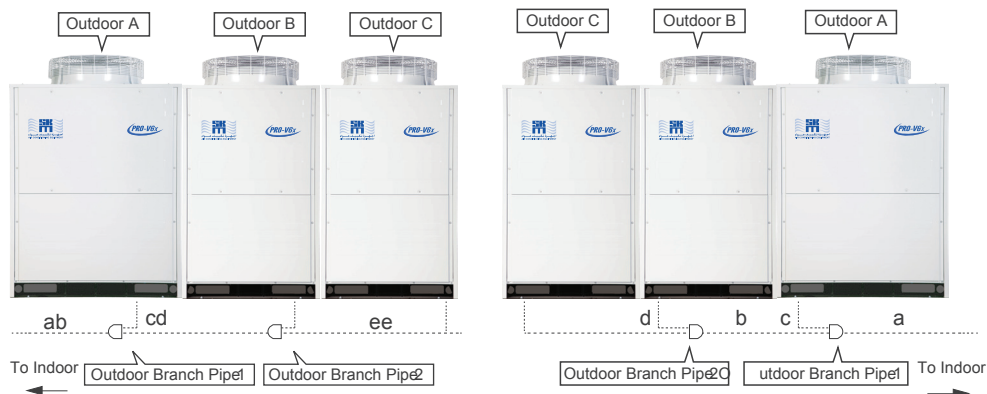
Branch Pipe Between Outdoor Unit (Double Module Combination)

Outdoor Unit	SK-HPH172SK-HPH229	SK-HPH250SK-HPH307
Outdoor Branch Pipe 1	HSB-OI0110	HSB-OI0120



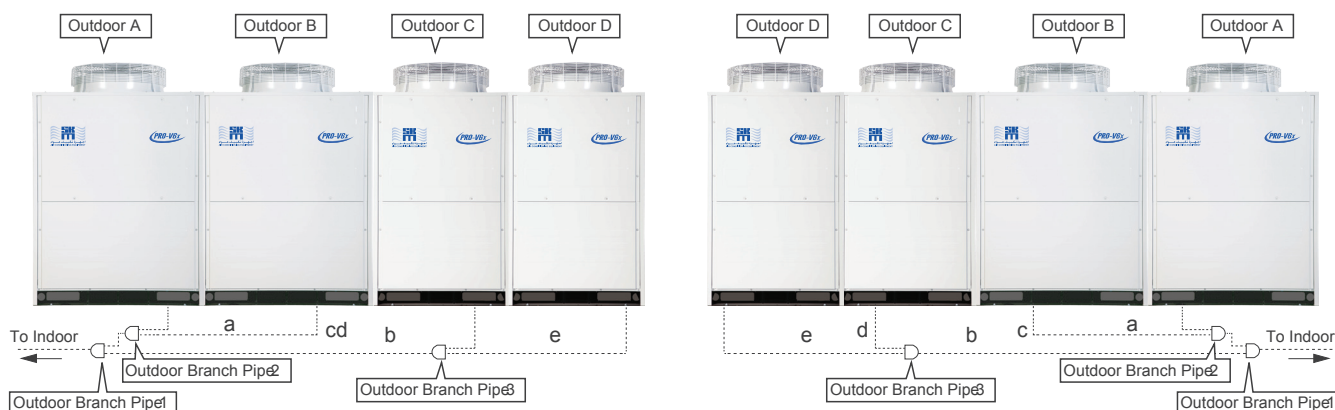
Branch Pipe Between Outdoor Unit (Three Module Combination)

Outdoor Unit	SK-HPH324SK-HPH386	SK-HPH404SK-HPH460
Outdoor Branch Pipe 1	HSB-OI0120	HSB-OI0120
Outdoor Branch Pipe 2	HSB-OI0110	HSB-OI0120



Branch Pipe Between Outdoor Unit (Four Module Combination)

Outdoor Unit	SK-HPH480SK-HPH540	SK-HPH569SK-HPH620
Outdoor Branch Pipe 1	HSB-II0050	HSB-II0050
Outdoor Branch Pipe 2	HSB-OI0120	HSB-OI0120
Outdoor Branch Pipe 3	HSB-OI0110	HSB-OI0120

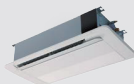


For combined system installation, the outdoor unit with bigger capacity should be installed near to indoor unit.



SKM Indoor Unit Range

SKM PRO-V6x series provide a wide selection of indoor units for indoor decoration and create a personalized living space.

HP		0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	3.0	3.3	4.0	5.0	6.0	8	10
kBtu/h		5	7	9	12	14	17	19	22	24	27	30	38	48	54	76	96
1-Way Cassette Type																	
2-Way Cassette Type																	
4-Way Cassette Type																	
Mini 4-Way Cassette Type																	
Ceiling Ducted Type (High Static Pressure)																	
Ceiling Ducted Type (Low Static Pressure)																	
Ceiling Ducted Type (AC Low-height)																	
Ceiling Ducted Type (DC Low-height)																	
Ceiling & Floor Type																	
Wall Mounted Type																	



1-Way Cassette Type

Efficiency DC Motor, Adjustable Air Speed

Adoption of the efficient DC motor and the optimized duct design assure the smooth air flow.

Wider 3D-air Flow Range Design

Broad air deflector design realized broad air supply range. The wind direction can be adjusted according to the need thus makes the customers feel more comfortable.

Fresh Air Intake

The unit can introduce fresh air from the external environment. With the filter facility, the air quality is guaranteed.

Drain Pump as Standard

Standard equipped drain pump with the maximum drainage height up to 1200mm.

Indoor unit			1-Way Cassette Type					
Model	Power Supply	AC1Φ 220V~240V 50Hz	SKS-C1HP07HS00	SKS-C1HP09HS00	SKS-C1HP12HS00	SKS-C1HP14HS00	SKS-C1HP18HS00	SKS-C1HP24HS00
Cooling Operation		kW	2.2	2.8	3.6	4.0	5.6	7.1
		kcal/h	1,900	2,400	3,100	3,400	4,800	6,100
		Btu/h	7,500	9,600	12,300	13,600	19,100	24,200
Heating Operation		kW	2.5	3.2	4.0	4.5	6.3	8
		kcal/h	2,100	2,700	3,400	3,800	5,400	6,800
		Btu/h	85,00	10,900	13,600	15,400	21,500	27,300
Noise Level		dB(A)	33/32/31/30/29/28	35/34/32/31/29/28	40/36/35/33/30/29	40/36/35/33/30/29	41/39/36/35/33/31	48/46/43/40/37/33
Outer Dimensions	H	mm	192	192	192	192	192	192
	W	mm	910	910	910	910	1,180	1,180
	D	mm	470	470	470	470	470	470
Net Weight		kg	19	19	20	20	24	24
Air Flow Rate		m³/h	372/354/336/306/288/276	396/372/336/306/288/276	498/438/408/372/336/306	498/438/408/372/336/306	726/594/528/492/468/396	936/756/672/594/504/426
Motor Power		W	40	40	40	40	60	60
Refrigerant Piping Connection			Flare-nut Connection (with Flare Nuts)					
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Condensate Drain			VP25 (Outer Diameter Φ32)					
Panel Model			HSD-IK0030	HSD-IK0030	HSD-IK0030	HSD-IK0030	HSD-IK0040	HSD-IK0040
Cabinet Color			Neutral White					
Panel Outer Dimensions	H	mm	55	55	55	55	55	55
	W	mm	1,100	1,100	1,100	1,100	1,370	1,370
	D	mm	550	550	550	550	550	550
Net Weight		kg	5	5	5	5	6	6

Notes:

1. The nominal cooling capacity is based on the following conditions:

Indoor Air Inlet Temperature: 27° DB (80°F DB), 19.0° WB (66.2°F WB) Outdoor Air Inlet Temperature: 35° DB (95°F DB) Piping Length: 7.5 Meters Piping Lift: 0 Meter

2. The sound pressure level is based on the following conditions:

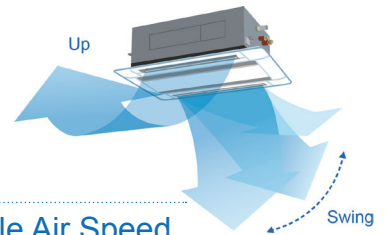
1.0m beneath the unit, 1.0m from Discharge Grille. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.



2-Way Cassette Type

2-way Individual Louver

The newly equipped individual louver setting function allows the angles of the 2 louvers to be adjusted individually.



Efficiency DC Motor, Adjustable Air Speed

The adoption of the efficient DC motor and the optimized duct design assure the smooth air flow.

Super Compact Structure Design, Easy for Installation

Drain Pump as Standard

The maximum drainage height up to 1200mm.

Low Noise Design

The high efficiency turbofan form the wind pressure by rotating. Larger fan blades and slower fan speed realize the low operating noise.

Fresh Air Intake

The unit can introduce fresh air from the external environment. With the filter facility, the air quality is ensured.

Indoor unit			2-Way Cassette Type										
Model	Power Supply	AC1Φ 220V~240V 50Hz	SKS-C2 HP07HS00	SKS-C2 HP09HS00	SKS-C2 HP12HS00	SKS-C2 HP14HS00	SKS-C2 HP18HS00	SKS-C2 HP24HS00	SKS-C2 HP27HS00	SKS-C2 HP30HS00	SKS-C2 HP38HS00	SKS-C2 HP48HS00	SKS-C2 HP54HS00
Cooling Operation		kW	2.2	2.8	3.6	4.3	5.6	7.1	8.4	9.0	11.2	14.0	16.0
		kcal/h	1,900	2,400	3,100	3,700	4,800	6,100	6,900	7,700	9,600	12,000	13,800
		Btu/h	7,500	9,600	12,300	14,700	19,100	24,200	28,700	30,700	38,200	47,800	54,600
Heating Operation		kW	2.8	3.3	4.0	4.9	6.5	8.0	9.0	10.0	13.0	16.0	18.0
		kcal/h	2,400	2,800	3,400	4,200	5,600	6,800	7,800	8,600	11,200	13,800	15,500
		Btu/h	9,600	11,300	13,600	16,700	22,200	27,300	30,700	34,100	44,400	54,600	61,400
Noise Level		dB(A)	32/30/29/27	33/30/29/28	34/31/30/28	40/37/34/32	42/39/36/33	45/42/40/36	47/44/40/36	49/46/42/37	46/44/40/38	48/45/42/38	49/46/43/40
Outer Dimensions	H	mm	298	298	298	298	298	298	298	298	298	298	298
	W	mm	860	860	860	860	860	860	860	860	1,420	1,420	1,420
	D	mm	630	630	630	630	630	630	630	630	630	630	630
Net Weight		kg	22	22	22	24	24	24	24	24	39	39	39
Air Flow Rate		m³/h	600/510 /432/360	660/564 /492/396	720/630 /534/450	900/792 /690/594	1,020/894 /780/672	1,140/984 /858/738	1,260/1,104 /936/756	1,320/1,158 /978/798	1,800/1,584 /1,386/1,188	2,100/1,848 /1,614/1,266	2,220/1,950 /1,704/1,446
Motor Power			57	57	57	57	57	57	57	57	57x2	57x2	57x2
Refrigerant Piping Connection			Flare-nut Connection(with Flare Nuts)										
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25(Outer Diameter Φ32)										
Panel Model			HSD-IK0050	HSD-IK0050	HSD-IK0050	HSD-IK0050	HSD-IK0050	HSD-IK0050	HSD-IK0050	HSD-IK0050	HSD-IK0060	HSD-IK0060	HSD-IK0060
Cabinet Color			Neutral White										
Panel Outer Dimensions	H	mm	30	30	30	30	30	30	30	30	30	30	30
	W	mm	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,660	1,660	1,660
	D	mm	710	710	710	710	710	710	710	710	710	710	710
Net Weight		kg	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.5	10.5	10.5

Notes:

1. The nominal cooling capacity is based on the following conditions:

Indoor Air Inlet Temperature: 27°DB (80°F DB), 19.0° WB(66.2°F WB) Outdoor Air Inlet Temperature: 35° DB(95°F DB) Piping Length: 7.5 Meters Piping Lift: 0 Meter.

2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.

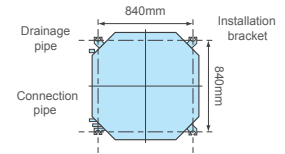
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.



4-Way Cassette Type

Ease of Installation

Squared design for unit body and installation bracket, unit body can be installed in any direction horizontally for convenient pipe connect position.



User-friendly air supply mode

a. The unit has the breeze mode that provides miniature draft through the holes at the four flat corners.

b. The 4 air louvers can be controlled independently and 6 air speed adjustments are available to meet various requirement.

These functions can be achieved by the wired controllers:
HSW-IA0020*, HSW-IA0010*.

Motion Sensor (Optional)

The indoor unit will automatically set through Motion Sensor. This function can be achieved by the wired controllers:
HSW-IA0020*, HSW-IA0010*, HSW-IA0050*.

Standard Equipped Drain Pump

Standard equipped drain pump with the maximum drainage height up to 1200mm.

Indoor unit			4-Way Cassette Type										
Model Power Supply	AC1Φ, 220~240V/50Hz		SKS-C4 HP09HS00	SKS-C4 HP12HS00	SKS-C4 HP15HS00	SKS-C4 HP19HS00	SKS-C4 HP22HS00	SKS-C4 HP24HS00	SKS-C4 HP27HS00	SKS-C4 HP30HS00	SKS-C4 HP38HS00	SKS-C4 HP48HS00	SKS-C4 HP54HS00
Nominal Cooling Capacity		kW	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	11.2	14.0	16.0
		kcal/h	2,400	3,100	3,900	4,800	5,400	6,100	6,900	7,700	9,600	12,000	13,800
		Btu/h	9,600	12,300	15,400	19,100	21,500	24,200	27,300	30,700	38,200	47,800	54,600
Nominal Heating Capacity		kW	3.2	4.0	5.0	6.3	7.1	8.0	9.0	10.0	12.5	16.0	18.0
		kcal/h	2,500	3,400	4,300	5,400	6,100	5,900	7,700	8,600	10,800	13,800	15,500
		Btu/h	9,900	13,600	17,100	21,500	24,200	27,300	30,700	34,100	42,700	54,600	61,400
Noise Level		dB(A)	30/28/28/27/26/26	32/29/29/28/27/26	33/31/29/29/27/26	34/31/30/28/28/26	36/33/32/31/29/28	36/33/32/31/29/28	37/36/35/33/31/30	37/36/35/33/31/30	42/40/38/36/34/33	46/44/40/38/36/34	46/44/41/40/38/36
Outer Dimensions	H	mm	238	238	238	238	238	238	288	288	288	288	288
	W	mm	840	840	840	840	840	840	840	840	840	840	840
	D	mm	840	840	840	840	840	840	840	840	840	840	840
Net Weight		kg	20	20	21	21	23	23	26	26	26	26	26
Air Flow Rate		m³/h	876/804/720/648/600/528	990/840/768/708/648/546	1,212/960/894/816/762/672	1,320/1,050/954/830/816/750	1,530/1,200/1,098/1,020/906/780	1,602/1,260/1,146/1,080/978/882	1,572/1,320/1,218/1,122/1,008/924	1,572/1,380/1,242/1,176/1,062/966	2,160/1,800/1,644/1,488/1,344/1,176	2,166/2,010/1,776/1,632/1,452/1,344	2,166/2,040/1,842/1,734/1,536/1,428
Motor Power		W	60	60	60	60	60	60	60	60	127	127	127
Piping Connections			Flare-nut Connection(with Flare Nuts)										
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain			VP25(Outer Diameter Φ32mm)										
Panel Model			HSD-IO0010										
Cabinet Color			Neutral White										
Panel Outer Dimensions	H	mm	47	47	47	47	47	47	47	47	47	47	47
	W	mm	950	950	950	950	950	950	950	950	950	950	950
	D	mm	950	950	950	950	950	950	950	950	950	950	950
Net Weight		kg	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Packing Volume		m³	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°CWB(66.2°F WB), Outdoor Air Inlet Temperature: 35°C DB(95°F DB)

Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions: 1.5m beneath the unit.

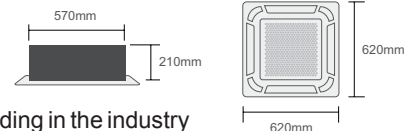
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.



Mini 4-Way Cassette Type

Mini Design

The unit thickness is merely 215mm leading in the industry and the ceiling height required for installation is only 245mm. It is extremely space saving. New appearance of the air return grille is honeycomb structure.



User-friendly air supply mode

a. The unit has the breeze mode that provides miniature draft through the holes at the four flat corners.

b. The 4 air louvers can be controlled independently and 4 air speed adjustments are available to meet various requirement. These functions can be achieved by the wired controllers: HSW-IA0020*, HSW-IA0010*.

Motion Sensor (Optional)

The indoor unit will automatically set through Motion Sensor. This function can be achieved by the wired controllers: HSW-IA0020*, HSW-IA0010, HSW-IA0050*.

Standard Equipped Drain Pump

Standard equipped drain pump with the maximum drainage height up to 1200mm.

Indoor unit			Mini 4-Way Cassette Type						
Model Power Supply	AC1Φ, 220~240V/50Hz		SKS-CMHP05HS00	SKS-CMHP07HS00	SKS-CMHP09HS00	SKS-CMHP12HS00	SKS-CMHP15HS00	SKS-CMHP17HS00	SKS-CMHP19HS00
Nominal Cooling Capacity	kW		1.5	2.2	2.8	3.6	4.5	5.0	5.6
	kcal/h		1,300	1,900	2,400	3,100	3,800	4,300	4,800
	Btu/h		5,100	7,480	9,520	12,240	15,300	17,000	19,040
Nominal Heating Capacity	kW		2.0	2.5	3.3	4.2	5.0	5.6	6.3
	kcal/h		1,700	2,100	2,800	3,600	4,300	4,800	5,400
	Btu/h		6,800	8,500	11,220	14,280	17,000	19,040	21,420
Noise Level	dB(A)		30/29/28/26	30/29/28/26	32/30/28/26	34/32/29/26	38/36/31/28	42/39/36/31	45/42/38/34
Outer Dimensions	H	mm	215	215	215	215	215	215	215
	W	mm	570	570	570	570	570	570	570
	D	mm	570	570	570	570	570	570	570
Net Weight	kg		14.5	14.5	14.8	14.8	15.8	15.8	15.8
Air Flow Rate	m³/h		430/390/370/335	430/390/370/335	470/430/390/350	490/430/390/350	560/524/424/400	660/570/524/424	750/650/560/480
Motor Power	W		57	57	57	57	57	57	57
Piping Connections			Flare-nut Connection(with Flare Nuts)						
Liquid Line	mm		Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Gas Line	mm		Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7
Condensate Drain			VP25(Outer Diameter Φ32mm)						
Panel Model			HSD-IO0020						
Cabinet Color			Neutral White						
Panel Outer Dimensions	H	mm	37	37	37	37	37	37	37
	W	mm	620	620	620	620	620	620	620
	D	mm	620	620	620	620	620	620	620
Net Weight	kg		2.7	2.7	2.7	2.7	2.7	2.7	2.7
Packing Volume	m³		0.046	0.046	0.046	0.046	0.046	0.046	0.046

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0° WB(66.2°F WB), Outdoor Air Inlet Temperature: 35°C DB(95°F DB)

Piping Length: 7.5 Meters Piping Lift: 0 Meter

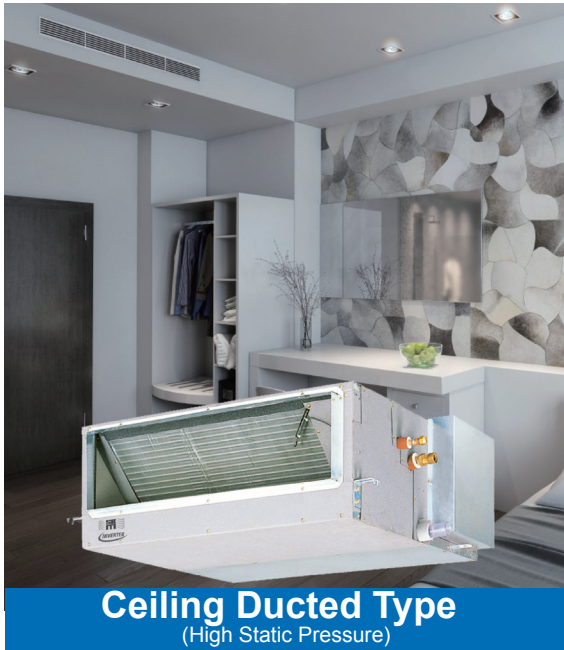
Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions:

1.5m beneath the unit.

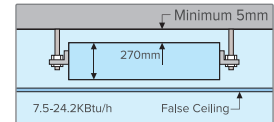
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.



Ceiling Ducted Type
(High Static Pressure)

Installation Space-saving

The height less than 270mm can be easily fit into the limited space in the false ceiling (7.5-24.2KBtu/h).



Satisfying Varied Requests on Installation

NOTE:

When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.



Fresh Air Intake

By introducing fresh outdoor air and being equipped with the air filter to keep indoor air clean.

Excellent Air Flow

The cooling and heating air distributed from the unit to the indoor space through ducts, which creates a comfortable environment.

Optional Parts

The drain pump can be supplied as optional part.

Indoor unit		Ceiling Ducted type (High Static Pressure)																*1
Model	Power Supply	AC1Φ, 220 ~240V/50Hz	SKS-HSH P07HS100	SKS-HSH P09HS100	SKS-HSH P12HS100	SKS-HSH P14HS100	SKS-HSH P17HS100	SKS-HSH P18HS100	SKS-HSH P22HS100	SKS-HSH P24HS100	SKS-HSH P27HS100	SKS-HSH P30HS100	SKS-HSH P38HS100	SKS-HSH P48HS100	SKS-HSH P54HS100	SKS-HSH P76HY00	SKS-HSH HP96HY00	
Nominal Cooling Capacity		kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0	
		kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100	
		Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600	
Nominal Heating Capacity		kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0	25.0	31.5	
		kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500	21,500	27,100	
		Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400	85,300	107,500	
Noise Level (H/M/L)		dB(A)	33-31-29	33-31-29	33-31-29	33-31-29	34-32-30	34-32-30	36-34-32	36-34-32	41-39-34	41-39-34	43-40-36	44-41-36	43-40-37	52	54	
Outer Dimensions	H	mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470	
	W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250	
	D	mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120	
Net Weight		kg	25	25	25	25	34	34	34	34	44	44	44	56	56	94	106	
Air Flow Rate (H/M/L)		m³/h	480/420 /360	480/420 /360	780/660 /540	780/660 /540	900/780 /660	900/780 /660	960/840 /720	960/840 /720	1600/1400 /1150	1600/1400 /1150	1600/1400 /1150	2100/1750 /1450	2150/1800 /1550	3480	4650	
Motor Power		W	110	110	150	150	150	150	150	190	300	300	300	430	430	1030	1280	
Piping Connections			Flare-nut Connection(with Flare Nuts)													Brazing		
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2	
Condensate Drain			VP25(Outer Diameter Φ32)															
External Static Pressure		Pa	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	50(80)	120(90)	120(90)	120(90)	120(90)	120(90)	220	220	
Packing Volume		m³	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06	

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB), Outdoor Air Inlet Temperature: 35°C DB(95°F DB), Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions: 1.5m beneath the unit. With discharge duct (2.0m) and return duct(1.0m) The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

3. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

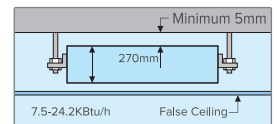
*1: AC 3Φ, 380V/50Hz: SKS-HSHP76HY00; SKS-HSHP96HY00



Ceiling Ducted Type (Low Static Pressure)

Installation Space-saving

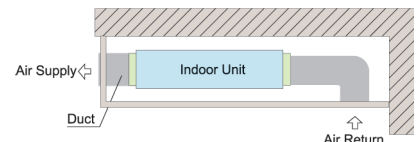
The height less than 270mm can be easily fit into the limited space in the false ceiling (7.5-24.2KBtu/h).



Satisfying Varied Requests on Installation

NOTE:

When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.



Fresh Air Intake

By introducing fresh outdoor air and being equipped with air filter to keep indoor air clean.

Excellent Air Flow

The cooling and heating air distributed from the unit to the indoor space through ducts which creates a comfortable environment.

Optional Parts

Drain pump can be supplied as optional part.

Indoor unit		Ceiling Ducted type (Low Static Pressure)																
Model	Power Supply	AC1Φ, 220~240V/50Hz	SKS-LSH P07HS100	SKS-LSH P09HS100	SKS-LSH P12HS100	SKS-LSH P14HS100	SKS-LSH P17HS100	SKS-LSH P18HS100	SKS-LSH P22HS100	SKS-LSH P24HS100	SKS-LSH P27HS100	SKS-LSH P30HS100	SKS-LSH P38HS100	SKS-LSH P48HS100	SKS-LSH P54HS100	SKS-LSH P76HY100	SKS-LSH P96HY00	
Nominal Cooling Capacity		kW	2.2	2.8	3.6	4.3	5.0	5.6	6.3	7.1	8.4	9.0	11.2	14.2	16.0	22.4	28.0	
		kcal/h	1,900	2,400	3,100	3,700	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200	13,800	19,300	24,100	
		Btu/h	7,500	9,600	12,300	14,700	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500	54,600	76,500	95,600	
Nominal Heating Capacity		kW	2.8	3.3	4.2	4.9	5.6	6.5	7.5	8.5	9.6	10.0	13.0	16.3	18.0	25.0	31.5	
		kcal/h	2,400	2,800	3,600	4,200	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000	15,500	21,500	27,100	
		Btu/h	9,600	11,300	14,300	16,700	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600	61,400	85,300	107,500	
Noise Level (H/M/L)		dB(A)	30-26-24	30-26-24	32-30-28	32-30-28	33-31-29	33-31-29	34-32-30	34-32-30	38-34-30	38-34-30	39-35-31	41-38-33	43-39-34	50	52	
Outer Dimensions	H	mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470	
	W	mm	650+75	650+75	650+75	650+75	900+75	900+75	900+75	900+75	900+75	900+75	900+75	1300+75	1300+75	1060	1250	
	D	mm	720	720	720	720	720	720	720	720	800	800	800	800	800	1120	1120	
Net Weight		kg	25	25	25	25	34	34	34	34	44	44	44	56	56	94	106	
Air Flow Rate (H/M/L)		m³/h	480/420 /360	480/420 /360	780/660 /540	780/660 /540	900/780 /660	900/780 /660	960/840 /720	960/840 /720	1550/1350 /1150	1550/1350 /1150	1550/1350 /1150	2150/1800 /1500	2200/1900 /1500	3480	4320	
Motor Power		W	110	110	150	150	150	150	150	190	300	300	300	430	430	950	1120	
Piping Connections			Flare-nut Connection(with Flare Nuts)														Brazing	
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ19.05	Φ22.2	
Condensate Drain			VP25(Outer Diameter Φ32)															
External Static Pressure		Pa	30	30	30	30	30	30	30	30	60	60	60	60	60	100	100	
Packing Volume		m³	0.21	0.21	0.21	0.21	0.27	0.27	0.27	0.27	0.38	0.38	0.38	0.52	0.52	0.90	1.06	

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)

Outdoor Air Inlet Temperature: 35°C DB(95°F DB), Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions: 1.5m beneath the unit. With discharge duct (2.0m) and return duct(1.0m)

The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

3. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.

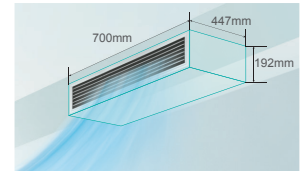
*1: AC3Φ, 380V/50Hz: SKS-HSHP76HY00; SKS-HSHP96HY00



Ceiling Ducted Type
(AC Low-height)

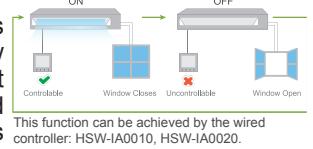
Installation Space-saving

With the height is 192mm and the smallest depth is 447mm, it can make full use of the narrow space to realize various kinds of air flow.



Window contact design

The operation condition of the unit links with the window status through the window sensor and the SKM indoor unit input function. This function saves energy and the automatic switch setting provides convenience for users.

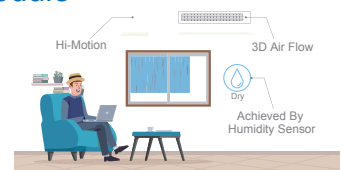


Standard Equipped Drain Pump

Standard equipped drain pump with the maximum drainage height up to 1200mm.

More Choice of the Optional Module

The unit can be controlled automatically through the Hi-Motion. Humidity sensor achieves the automatic dehumidification. 3D air flow provides more comfortable air supply mode.



Indoor unit	Ceiling Ducted Type (AC Low-height)									
Model Power supply	AC 1Φ, 220~240V /50Hz	SKS-ALHP05HS100	SKS-ALHP07HS100	SKS-ALHP09HS100	SKS-ALHP12HS100	SKS-ALHP15HS100	SKS-ALHP17HS100	SKS-ALHP19HS100	SKS-ALHP22HS100	SKS-ALHP24HS100
Nominal Cooling Capacity	kW	1.7	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1
	kcal/h	1,500	1,900	2,400	3,100	3,900	4,300	4,800	5,400	6,100
	Btu/h	5,800	7,500	9,600	12,300	15,300	17,100	19,100	21,500	24,200
Nominal Heating Capacity	kW	1.9	2.5	3.2	4.0	5.0	5.6	6.3	7.1	8.0
	kcal/h	1,700	2,100	2,700	3,450	4,300	4,800	5,400	6,100	6,800
	Btu/h	6,500	8,500	11,300	13,600	17,100	19,100	21,500	24,200	27,300
Noise Level (Hi/Me/Lo)	Sound Pressure-dB(A)	29/24/22	29/24/22	35/25/23	35/25/23	36/25/23	36/25/23	35/25/23	39/26/25	39/26/25
Outer Dimensions	H mm	192	192	192	192	192	192	192	192	192
	W mm	700	700	700	700	910	910	1,180	1,180	1,180
	D mm	447	447	447	447	447	447	447	447	447
Net Weight	kg	16	16	17	17	21	21	25	26	26
Air Flow Rate (Hi/Me/Lo)	m³/h	420/330/282	420/330/282	540/342/288	540/342/288	720/378/330	720/378/330	810/480/462	1,080/558/522	1,080/558/522
Motor Power	W	14	14	29	29	35	35	40	60	60
Piping Connections	Flare-nut Connection(with Flare Nuts)									
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain	VP25(Outer Diameter Ø32mm)									
External Pressure	Pa	10(30)								
Approximate Packing Measurement	m³	0.15	0.15	0.15	0.15	0.18	0.18	0.22	0.22	0.22

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB), Outdoor Air Inlet Temperature: 35°C DB(95°F DB)

Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

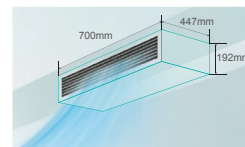
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.



Ceiling Ducted Type
(DC Low-height)

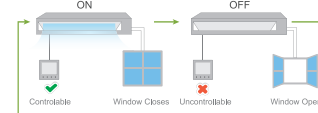
Installation Space-saving

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Window contact design

The operation condition of the unit links with the window status through the window sensor and the SKM indoor unit input function. This function saves energy and the automatic switch setting provides convenience for users.



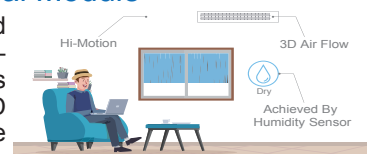
This function can be achieved by the wired controller: HYXE-VA01, HYXM-VB01, HYXE-J01H

Standard Equipped Drain Pump

Standard equipped drain pump with the maximum drainage height up to 1200mm.

More Choice of the Optional Module

The unit can be controlled automatically through the Hi-Motion. Humidity sensor achieves the automatic dehumidification. 3D air flow provides more comfortable air supply mode.



Indoor unit		Ceiling Ducted Type (DC Low-height)										
Model Power supply		AC 1Φ, 220~240V 50Hz	SKS-DLHP05HS00	SKS-DLHP07HS00	SKS-DLHP09HS00	SKS-DLHP12HS00	SKS-DLHP15HS00	SKS-DLHP17HS00	SKS-DLHP19HS00	SKS-DLHP22HS00	SKS-DLHP24HS00	
Nominal Cooling Capacity	kW		1.7	2.2	2.8	3.6	4.5	5.0	5.6	6.3	7.1	
	kcal/h		1,500	1,900	2,400	3,100	3,900	4,300	4,800	5,400	6,100	
	Btu/h		5,800	7,500	9,600	12,300	15,300	17,100	19,100	21,500	24,200	
Nominal Heating Capacity	kW		1.9	2.5	3.2	4.0	5.0	5.6	6.3	7.1	8.0	
	kcal/h		1,700	2,100	2,700	3,450	4,300	4,800	5,400	6,100	6,800	
	Btu/h		6,500	8,500	11,300	13,600	17,100	19,100	21,500	24,200	27,300	
Noise Level		Sound Pressure- dB(A)	28/27/26/24/23/21	28/27/26/24/23/21	35/32/32/30/26/23	35/32/32/30/26/23	35/32/32/30/26/23	35/32/32/30/26/23	35/32/32/30/26/23	38/36/35/33/31/24	38/36/35/33/31/24	
Outer Dimensions	H	mm	192	192	192	192	192	192	192	192	192	
	W	mm	700	700	700	700	910	910	1,180	1,180	1,180	
	D	mm	447	447	447	447	447	447	447	447	447	
Net Weight		kg	16	16	17	17	20	20	24	24	24	
Air Flow Rate		m³/h	420/390/366/ 342/318/288	420/390/366/ 342/318/288	540/486/438/ 402/354/312	540/486/438/ 402/354/312	720/648/564/ 486/408/330	720/648/564/ 486/408/330	810/750/672/ 600/528/462	1,080/966/858/ 738/630/522	1,080/966/858/ 738/630/522	
Motor Power		W	40	40	40	40	40	40	60	60	60	
Piping Connections			Flare-nut Connection(with Flare Nuts)									
Liquid Line		mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	
Gas Line		mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88	
Condensate Drain			VP25(Outer Diameter Ø32mm)									
External Pressure		Pa	10(0-10-30)									
Approximate Packing Measurement		m³	0.15	0.15	0.15	0.15	0.18	0.18	0.22	0.22	0.22	

Notes:

1.The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB), Outdoor Air Inlet Temperature: 35°C DB(95°F DB)

Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions:

1.5m beneath the unit.

With discharge duct (2.0m) and return duct(1.0m)

The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

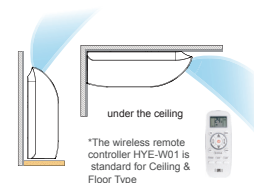
When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.



Ceiling & Floor Type

Flexible Installation

The unit can be installed either stand on the floor or hang under the ceiling.

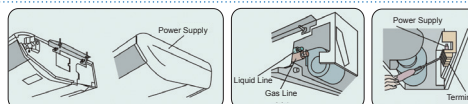


New Fashion Design Appearance and High Quality

The fashionable design and streamline appearance gives a perfect choice for users. The integrative side panel makes the whole unit more concordant. Huge air outlet with an integrative large louver realizes high air volume and low noise.

Convenient Installation and Maintenance

Advanced structure design that makes the unit installation, pipe connection, even wiring work into simple.



1. Unit installation work can be done directly just open the side panel
2. After open side panel, big space for pipe connection provide convenience for pipe installation
3. Set DIP switch by opening electric box cover, simplification and convenience.

Intelligent 3D Air Flow

With horizontal and vertical air louver, the air flow can be adjusted freely. Fullfill the optimum air organization, and bring more comfortable.

Indoor unit		Ceiling & Floor Type							
Model Power Supply	AC1Φ 220V~240V 50Hz	SKS-CFHP17HS00	SKS-CFHP18HS00	SKS-CFHP22HS00	SKS-CFHP24HS00	SKS-CFHP27HS00	SKS-CFHP30HS00	SKS-CFHP38HS00	SKS-CFHP48HS00
Nominal Cooling Capacity	kW	5	5.6	6.3	7.1	8.4	9	11.2	14.2
	kcal/h	4,300	4,800	5,400	6,100	7,200	7,700	9,600	12,200
	Btu/h	17,100	19,100	21,500	24,200	28,700	30,700	38,200	48,500
Nominal Heating Capacity	kW	5.6	6.5	7.5	8.5	9.6	10	13	16.3
	kcal/h	4,800	5,600	6,500	7,300	8,300	8,600	11,200	14,000
	Btu/h	19,100	22,200	25,600	29,000	32,800	34,100	44,400	55,600
Motor Power	W	40	40	70	70	70	80	130	160
Air Flow Rate (H/M/L)	m ³ /h	780/660/540	780/660/540	966/840/678	966/840/678	1,092/912/732	1,164/978/798	1,488/1,230/978	1,980/1,680/1,380
Noise Level (Ceiling)	dB(A)	39/35/30	39/35/30	45/41/37	45/41/37	43/39/34	45/40/36	51/46/40	50/46/42
Noise Level (Floor)	dB(A)	43/38/35	43/38/35	48/44/40	48/44/40	46/41/37	48/43/39	54/49/43	55/50/46
Outer Dimensions	H	mm	230	230	230	230	230	230	230
	W	mm	990	990	990	990	1,285	1,285	1,580
	D	mm	680	680	680	680	680	680	680
Net Weight	kg	31	31	32	32	39	40	41	47
Piping Connections		Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Gas Line	mm	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88	Φ15.88
Condensate Drain		VP25(Outer Diameter Φ32)							
Speed-up Setting HH1	m ³ /h	852	852	1,068	1,068	1,188	1,272	1,620	2,160
Speed-up Setting HH2	m ³ /h	960	960	1,200	1,200	1,338	1,410	1,752	2,244

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°CWB(66.2°F WB), Outdoor Air Inlet Temperature: 35°C DB(95°F DB)

Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

The sound pressure level is based on the following conditions:

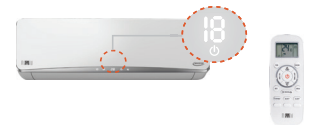
1.0m beneath the unit, 1.0m from Discharge Grille. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, sound pressure will increase according to factors such as installation mode and the room structure.



Wall Mounted Type

Elegant Smooth Panel Design with Hidden LED Display

The quality of "Elegance" is to meet contemporary needs. The simple and smooth form harmonizes with any interior style. The smooth panel can be cleaned easily.



*The wireless remote controller HYE-W01 is standard for Wall Mounted Type.

Anti-mold Filter

Anti-mold filter is equipped as standard accessory.

Flexible Installation

The water drain pipe can be set either on the left side or on the right side of the unit. The connection pipe can be set in left, right or back side of the unit.

Compact and Light Weight, Allowing Easy Installation

For easy installation, a slim design is adopted to this new model by using a high proportion of lightweight resin parts, which greatly reduced the weight of the unit.

The Sleep Mode Offers Comfortable Temperature for People to Enjoy Good Sleep

The sleep mode can be kept for 8 hours. The setting temperature can be adjusted automatically for your comfort.

Quiet Operation for Super Low Sound Level

The one-touch quiet operation can set the system work in a super low speed and make the noise level low to 28 dB(A).

Indoor unit		Wall Mounted Type							
Model Power Supply	AC1Φ220V ~240V/50Hz	SKS-WSHP07HS100	SKS-WSHP09HS100	SKS-WSHP12HS100	SKS-WSHP14HS100	SKS-WSHP17HS100	SKS-WSHP18HS100	SKS-WSHP22HS100	SKS-WSHP24HS100
Nominal Cooling Capacity	kW	2.2	2.8	3.6	4.0	5.0	5.6	6.3	7.1
	kcal/h	1,900	2,400	3,100	3,450	4,300	4,816	5,418	6,106
	Btu/h	7,500	9,500	12,300	13,600	17,000	19,100	21,500	24,200
Nominal Heating Capacity	kW	2.5	3.3	4.0	4.5	5.6	6.3	7.1	8
	kcal/h	2,150	2,800	3,450	3,900	4,800	5,418	6,106	6,880
	Btu/h	8,500	11,100	13,600	15,300	19,100	21,500	24,200	27,300
Air Flow Rate (High/Medium/Low/Mute)	m³/h	660/590/520/460	660/590/520/460	830/660/520/460	830/660/520/460	900/750/590/460	893/782/671/582	1,006/893/716/621	1,122/984/804/649
Noise Level (High/Medium/Low/Mute)	dB(A)	39/34/32/28	39/34/32/28	43/39/32/28	43/39/32/28	45/40/34/29	41/37/34/30	44/41/36/31	46/43/38/33
Net Weight	kg	13.5	13.5	13.5	13.5	13.5	16.0	16.0	16.0
Motor Power	W	50	50	60	60	65	62	72	82
Connections Refrigerant Piping		Flare-nut Connection(with Flare Nuts)							
Liquid Line	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ9.53	Φ9.53	Φ9.53
Gas Line	mm	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ12.7	Φ15.88	Φ15.88	Φ15.88
Condensate Drain		VP16(Outer Diameter Φ32)							
Outer Dimensions	H	mm	315	315	315	315	315	315	315
	W	mm	960	960	960	960	960	1,120	1,120
	D	mm	230	230	230	230	230	230	230
Packing Volume	m³	0.17	0.17	0.17	0.17	0.17	0.19	0.19	0.19
Wireless Remote Controller/Receiver		HSR-IB0010 +Receiver							
Wired Remote Controller		Option	Option	Option	Option	Option	Option	Option	Option
Fan motor		PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor	PG Fan motor
Drain Pump		NO	NO	NO	NO	NO	NO	NO	NO

Notes:

1. The nominal cooling capacity and heating capacity are based on the following conditions:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB), Outdoor Air Inlet Temperature: 35°C DB(95°F DB)

Piping Length: 7.5 Meters Piping Lift: 0 Meter

Heating Operation Conditions

Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

2. The sound pressure level is based on the following conditions:

1.1m beneath the unit and 1.0m from inlet grille. Voltage of the power source for the indoor fan motor is 220V.

In case of the power source of 240V, the sound pressure level increases by about 1~2dB. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.

All Fresh Air Indoor Unit

Create Comfortable and Healthy Indoor Environment

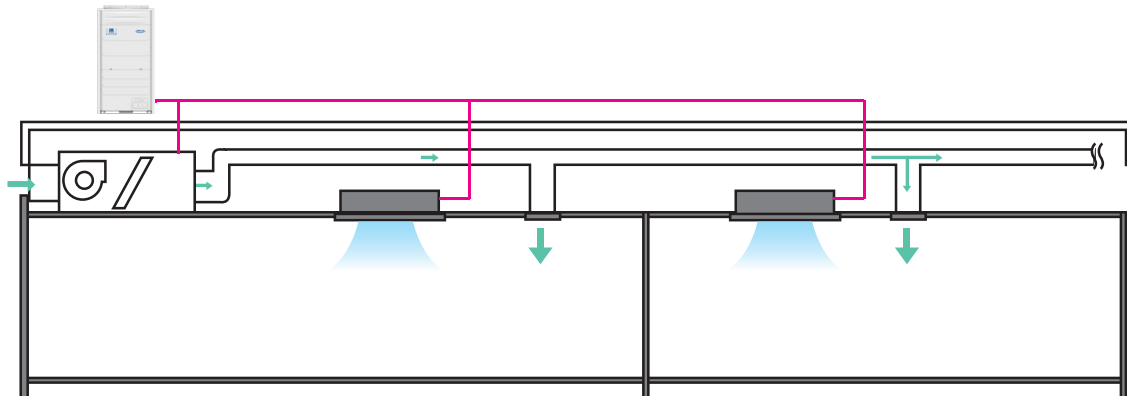
Create a comfortable and healthy indoor environment by introducing fresh outdoor air. By heating or cooling fresh outdoor air to almost the same temperature as room temperature, fresh ambient air can be adapted and then introduced into indoor room. Besides, after filtered, fresh outdoor air in transition seasons can be drawn to indoor room directly with no need of heating or cooling operation, While fresh outdoor air is introduced, other indoor units don't bear fresh air load.

Higher External Static Pressure

Better installation flexibility at site, longer duct can be connected.

Advanced Control

Can be interfaced to central control system. Easy electrical wiring design and installation.



Indoor Unit			All Fresh Air Indoor Unit			
Model	Power Supply	AC1Φ, 220~240V/50Hz	SKS-FAHP30HS100	SKS-FAHP48HS100	SKS-FAHP76HS100	SKS-FAHP96HS100
Nominal Cooling Capacity		kW	9.0	14.0	22.4	28.0
		kcal/h	7,700	12,000	19,300	24,100
		Btu/h	30,700	47,800	76,500	95,600
Nominal Heating Capacity		kW	8.6	13.7	21.9	24.5
		kcal/h	7,400	11,800	18,800	21,100
		Btu/h	29,400	46,800	74,700	83,600
Motor Power		W	150	330	490	510
Outer Dimensions	H	mm	370	370	486	486
	W	mm	920	1,320	1,270	1,270
	D	mm	800	800	1,069	1,069
Noise Level		dB(A)	32	43	45	46
Net Weight		Kg	46	60	97	97
Refrigerant			R410A(Nitrogen-charged for Corrosion-resistance)			
Air Flow Rate		m³/h	660	1,080	1,680	2,100
External Static Pressure		Pa	60(120)	200	220	220
Air Inlet Size		mm	833×306	1233×306	1,100×415	1,100×415
Air Outlet Size		mm	803×220	1203×220	1,106×338	1,106×338
Drain Pipe Size			VP25, Outer Diameter: Φ32mm			
Refrigerant Liquid Line		mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
Refrigerant Gas Line		mm	Φ15.88	Φ15.88	Φ19.05	Φ22.2
Temperature Range of Fresh Air Drawn			Cooling: 20℃ ~43℃, Heating: -7℃ ~15℃			



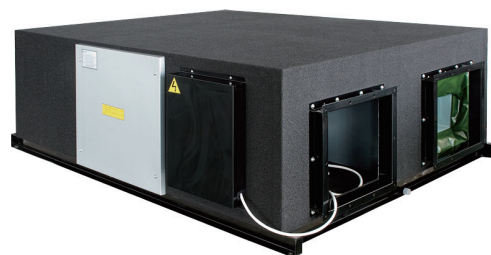
Indoor Unit		All Fresh Air Indoor Unit			
Model Power Supply	AC1Φ, 220_240V/50Hz	SKS-FAHP114HY00	SKS-FAHP154HY00	SKS-FAHP190HY04	SKS-FAHP190HY05
Nominal Cooling Capacity	kW	33.5	45.0	56.0	56.0
	kcal/h	28,800	38,700	48,200	48,200
	Btu/h	114,300	153,600	191,100	191,100
Nominal Heating Capacity	kW	26.8	36.0	44.8	44.8
	kcal/h	23 , 100	31 , 000	38 , 500	38 , 500
	Btu/h	91,500	122,900	152,900	152,900
Motor Power	W	740	1120	1330	1620
Outer Dimensions	H	mm	486	635	735
	W	mm	1,270	1,950	1,950
	D	mm	1,069	805	805
Sound Pressure Level	dB(A)	56	61	64	66
Net Weight	Kg	97	196	222	222
Refrigerant		R410A			
Indoor Fan Air Flow Rate	m ³ /h	3,000	4,000	5,000	6,000
External Static Pressure	Pa	220	300	320	300
Air Inlet Size	mm	1,100×415	1,522×522	1,522×622	1,522×622
Air Outlet Size	mm	1,106×338	850×272	850×272	850×272
Drain Pipe Size		VP25,Outer Diameter: Φ32mm RC1(Internal Screw)			
Refrigerant Liquid Line Size	mm	Φ12.7	Φ12.7	Φ15.88	Φ15.88
Refrigerant Gas Line Size	mm	Φ25.4	Φ25.4	Φ28.6	Φ28.6
Temperature Range of Fresh Air Drawn		Cooling: 20℃ ~43℃ , Heating: -7℃ ~15℃			

NOTES:

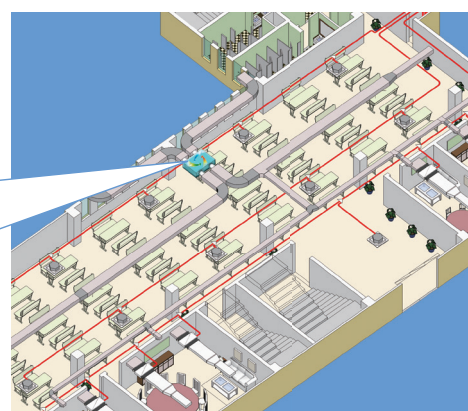
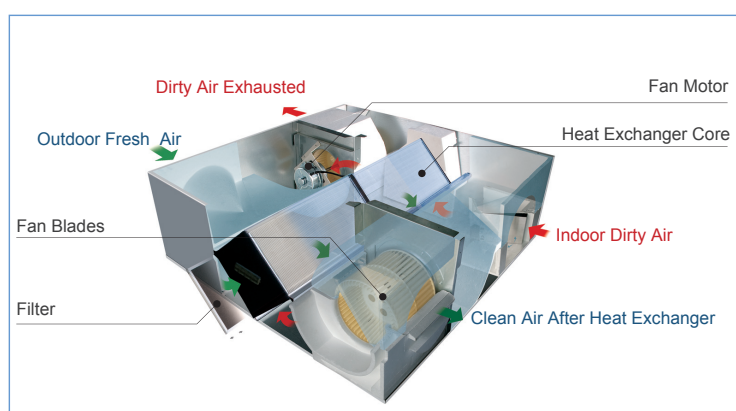
- The nominal cooling capacity and heating capacity are based on following conditions
Cooling operation conditions: 33°C DB, 28°C WB, piping length: 7.5m, piping lift: 0m
Heating operation conditions: 0°C DB, -2.9°C WB, piping length: 7.5m, piping lift: 0m
(Heating capacity is tested when defrosting is not available)
- The sound pressure level is based on following conditions: 1.5 Meter beneath the unit.
The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration in the filed.
- An air filter with duct collection efficiency more than 50% needs to be attached to the duct system of the suction side at site.
- When the resistance of the filed-supplied duct is small, it may cause abnormal stop, malfunction, spraying water, etc.Due to excessive air flow. And the duct, which is to be connected to this unit, shall be insulation for dew protection.
- All fresh air indoor unit is for processing fresh air load and not for stabilizing the room temperature. For adjusting the air conditioning load of the room, the additional air conditioner is required.
- This unit shall be connected to PRO-V6s, G+,X,R,W and PRO-VMx Series outdoor units. In case of connecting this unit with other indoor units in the same refrigerant cycle,calculate the capacity of this unit as 46.1KBtu/h(30.7KBtu/h), 71.7KBtu/h(47.8KBtu/h), 143.3KBtu/h(95.6KBtu/h).
- When VRF outdoor unit connected to only with all fresh air indoor unit, the configuration rate is 100% (Recommended)
- Under cooling mode,when outdoor temperature is lower than 20° ,the system will automatically shift to ventilation operation; Under heating mode, when outdoor temperature is higher than 15°C the system will automatically shift to ventilation operation; In case inlet temperature is below -7°C all fresh air unit will stop.

Heat Recovery Ventilator

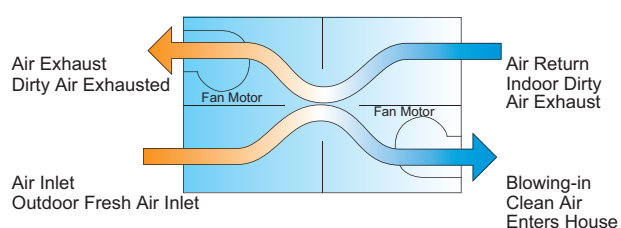
SKM heat recovery ventilator adopts efficient convective transfer material to effectively recycle the heat losses due to ventilation, reduces the fresh air load, achieves the purpose of energy saving and lower running cost of air conditioning unit, fresh air is supplied to indoors continuously which can make your room more comfortable and healthy.



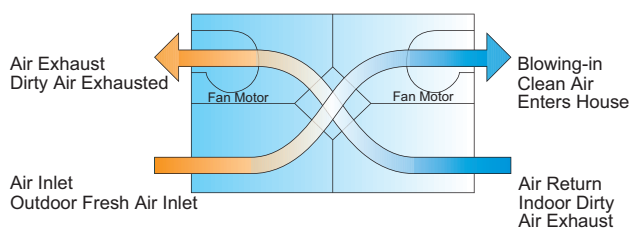
Basic Structure and Operation Principle



Airflow System



SKS-HRHP15HS100 ~ SKS-HRHP100HS100



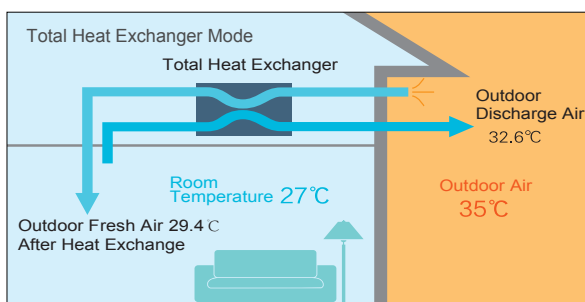
SKS-HRHP150HY00 ~ SKS-HRHP500HY00



Energy Saving Analysis

Summer Energy Saving Analysis

In summer, when the cold energy of 27°C air discharged from indoor pass through the heat exchanger, the 35°C outdoor hot air is pre-cooled to 29.4°C fresh air and supplied to indoors. As shown above, the air conditioner only needs to cool the air by 2.4°C to maintain a comfortable room temperature and fresh air. In this process, the discharge air pre-cools the fresh air by HRV, The temperature recovery efficiency in cooling is 70% max, and enthalpy exchange efficiency is 57% max.



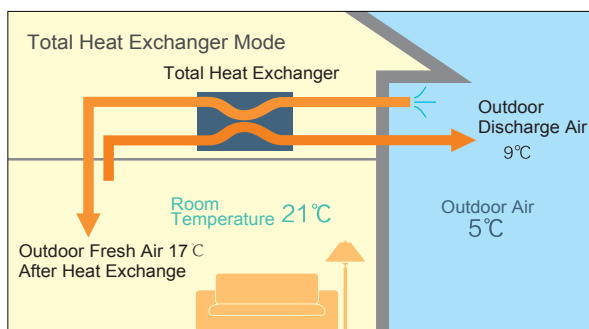
VS ordinary ventilation fan

Air Inlet		Outdoor Air	
	Total Heat Exchanger	Traditional Ventilation Fan	
Dry Bulb Temperature °C	29.4	35	Dry Bulb Temperature °C 35
Wet Bulb Temperature °C	23.3	28	Wet Bulb Temperature °C 28
Moisture Content g/kg	15.7	21.1	Relative Humidity % 59.1
Relative Humidity %	60.1	59.1	Enthalpy Value kJ/kg(DA) 89.4
Enthalpy Value kJ/kg(DA)	69.8	89.4	
Recycling Cold kW	1.57	0	
Heat Load kW	2.8	2.8	

Air Conditioning	Dry Bulb Temperature °C	27
	Wet Bulb Temperature °C	19.5
	Relative Humidity %	49.8
	Enthalpy Value kJ/kg(DA)	55.5

Winter Energy Saving Analysis

In winter, when the heat energy of 27°C air discharged from indoor pass through the heat exchanger, the 5°C outdoor cold air is pre-heated to 17°C fresh air and supplied to indoors. As shown above, when outdoor 5°C air and indoor 21°C air pass through the HRV, the fresh air supplied to indoors is about 17°C, the air conditioner only needs to heat the air by 5°C to maintain a comfortable room temperature and fresh air. The temperature recovery efficiency in heating is 75% max, and enthalpy exchange efficiency is 63% max.



VS ordinary ventilation fan

Air Inlet		Outdoor Air	
	Total Heat Exchanger	Traditional Ventilation Fan	
Dry Bulb Temperature °C	17	5	Dry Bulb Temperature °C 5
Wet Bulb Temperature °C	9.4	2	Wet Bulb Temperature °C 2
Moisture Content g/kg	4.2	6	Relative Humidity % 58.5
Relative Humidity %	35.3	58.5	Enthalpy Value kJ/kg(DA) 12.9
Enthalpy Value kJ/kg(DA)	27.8	12.9	
Recycling Cold kW	1.3	0	
Heat Load kW	2	2	

Air Conditioning	Dry Bulb Temperature °C	21
	Wet Bulb Temperature °C	13
	Relative Humidity %	39.2
	Enthalpy Value kJ/kg(DA)	36.5

Very Low Noise

Through a low-noise fan motor, advanced internal silence insulation device and optimization of air passage, the units have low noise.

The minimum operating sound is only 28dB(A), which will not affect the users' sleep and rest at all.



With Flexible Control, It Has Access to Centralized Control of SKM Air Conditioning System

Features:

- Streamline appearance design, white highlight shell
- Large LCD screen, humanized operation interface
- Touch key control, easy and convenient
- White backlight; operation indicator light
- Infrared remote control is acceptable, realizing two control method: wired control and remote control

HSW-IA0050



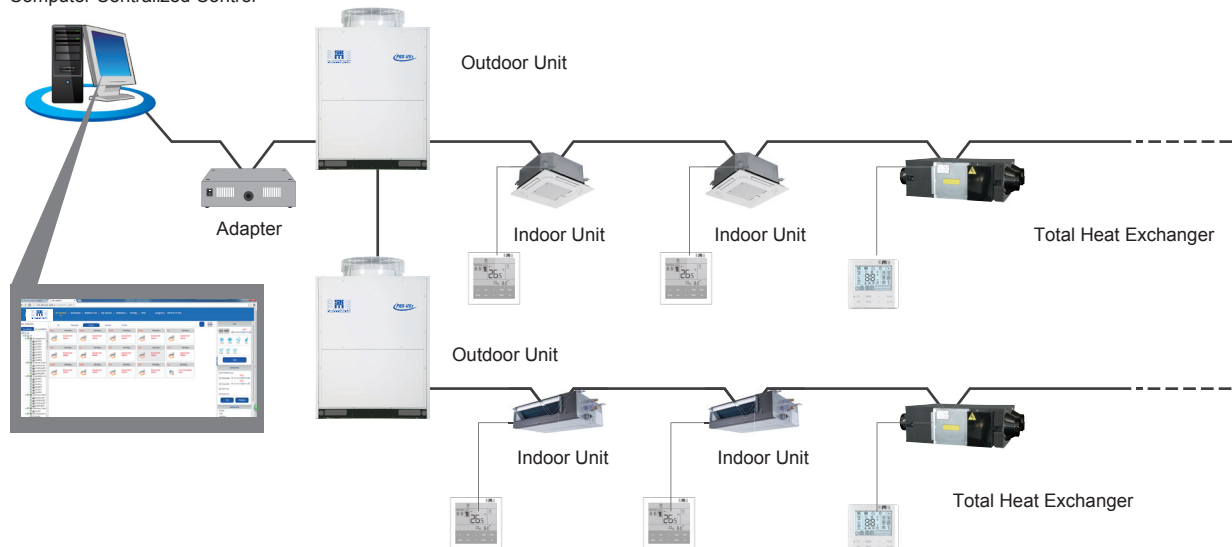
Main Functions:

- | | | | |
|---------------------------------|-----------------------|--------------------------------|------------------------------|
| • 86×86mm smart size | • Inserting | • Cooling/Heating/Dry/Fan/Auto | • Backlight |
| • Multiple speed/Swing louver | • Temperature setting | • 72-hour Timer | • Control Max.6 indoor units |
| • Air filter cleaning reminding | • Check | • Error Code Display | • Dehumidification |

Centralized Control System

SKM centralized control type total heat exchanger products can be connected to the centralized control system of SKM air conditioning* and achieve the linkage with air conditioning system and centralized control, so the operation is more convenient and more intelligent!

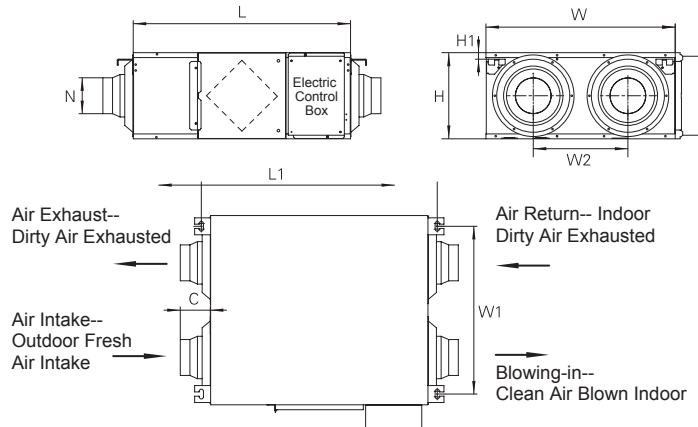
Computer Centralized Control



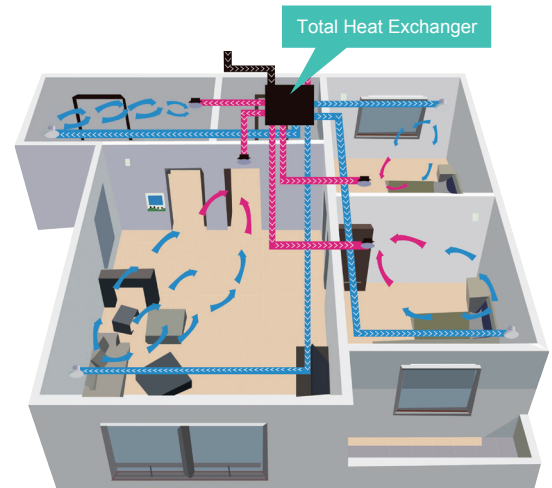


SKS-HRHP15HS100

Product Dimensions:



Model	L	L1	W	W1	W2	H	C	N	H1
SKS-HRHP15HS100	665	723	580	514	290	265	90	Φ 144	20



Fresh Air
 Dirty Air

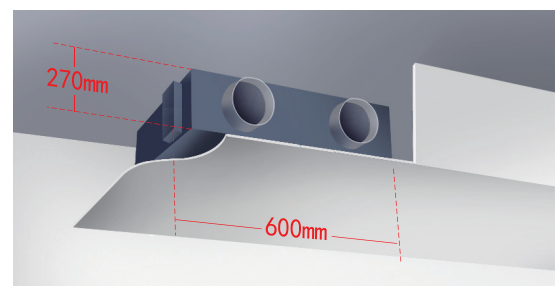
Technical Parameters:

Model	Air Volume m³/h			Enthalpy Efficiency (Summer) η ₁			Enthalpy Efficiency (Winter) η ₂			External Static Pressure Pa			Power Supply	Input Current A			Input Power kW			Noise Level dB(A)			Weight kg
	High	Middle	Low	High	Middle	Low	High	Middle	Low	High	Middle	Low		High	Middle	Low	High	Middle	Low	High	Middle	Low	
SKS-HRHP15HS100*	150	150	110	58	58	60	65	65	69	85	70	65	220-240V /50HZ	0.38	0.36	0.31	2 × 0.041	2 × 0.038	2 × 0.029	30	29	28	25

Product Feature

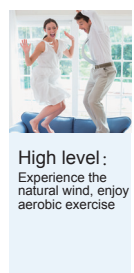
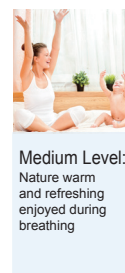
Compact Machine, Convenient Installation

The thickness of machine is not more than 270mm that can be easily installed in the narrow residential ceiling. The width of the machine whose volume is under 300m³/h is less than 600mm, which is particularly suitable for very narrow spaces in the ceiling, and can save the space of installation and ceiling. It is more convenient for construction.



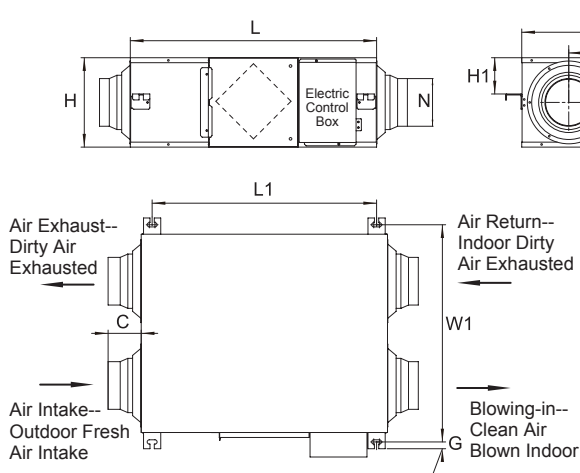
Adjustable Air Volume, Quiet Operation

The air volume can be adjusted at a range of high, medium, or low level, the lowest noise in low level is only 28 dB(A) (SKS-HRHP15HS100 in low level), which reaches the lowest level in the industry.



SKS-HRHP25HS100 ~ SKS-HRHP100HS100

Product Dimensions:



Model	L	L1	W	W1	W2	H	C	G	N	H1
SKS-HRHP25HS100	745	675	600	656	315	270	90	19	Φ144	110
SKS-HRHP35HS100	745	675	805	861	480	270	90	19	Φ144	110
SKS-HRHP50HS100	825	755	905	961	500	270	96	19	Φ194	110
SKS-HRHP65HS100	1115	1050	885	941	430	390	80	19	Φ242	175
SKS-HRHP80HS100	1115	1050	1135	1191	675	390	80	19	Φ242	175
SKS-HRHP100HS100	1115	1050	1135	1191	675	390	80	19	Φ242	175

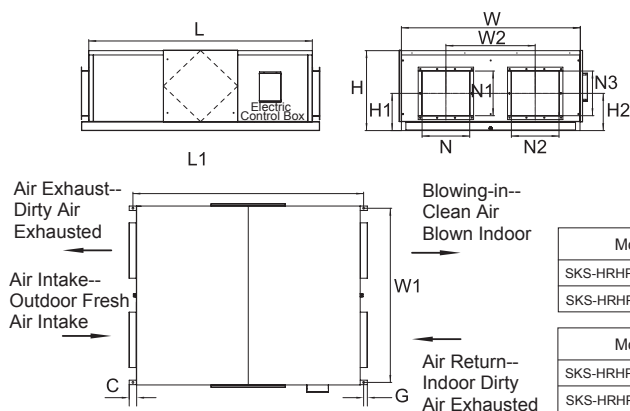


Technical Parameters:

Model	Air Volume m³/h			Enthalpy Efficiency (Summer)η _i			Enthalpy Efficiency (Winter)η _i			External Static PressurePa			Power Supply	Input Current A			Input PowerkW			Noise Level dB(A)			Weight kg
	High	Middle	Low	High	Middle	Low	High	Middle	Low	High	Middle	Low		High	Middle	Low	High	Middle	Low	High	Middle	Low	
SKS-HRHP25HS100	250	250	190	57	57	59	63	63	68	85	65	60	220~240V /50Hz	0.66	0.56	0.52	2×0.069	2×0.055	2×0.049	32	31	28	30
SKS-HRHP35HS100	350	350	270	55	55	57	62	62	65	100	75	65		0.76	0.75	0.71	2×0.083	2×0.079	2×0.075	34	33	31	35
SKS-HRHP50HS100	500	500	400	56	56	58	63	63	65	130	110	100		1.82	1.71	1.52	2×0.189	2×0.157	2×0.124	39	38	36	40
SKS-HRHP65HS100	650	650	550	57	57	59	63	63	68	130	100	100		1.75	1.62	1.51	2×0.193	2×0.178	2×0.164	40	38	35	62
SKS-HRHP80HS100	800	800	650	58	58	59	66	66	68	130	100	90		1.98	1.88	1.75	2×0.211	2×0.196	2×0.18	42	40	37	72
SKS-HRHP100HS100	1000	1000	700	56	56	58	63	63	66	165	120	60		4.68	4.18	3.47	2×0.510	2×0.450	2×0.363	44	42	38	79

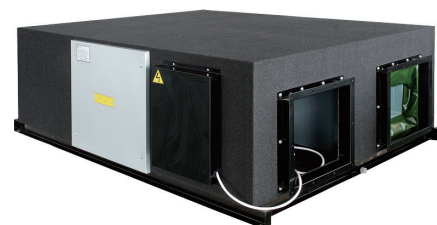
SKS-HRHP150HY00 ~ SKS-HRHP200HY00

Product Dimensions:



Model	L	L1	W	W1	W2	H	H1
SKS-HRHP150HY00	1500	1550	1200	1170	600	540	250
SKS-HRHP200HY00	1550	1600	1400	1370	700	540	250

Model	C	G	N	N1	N2	N3	H2
SKS-HRHP150HY00	50	25	320	300	320	300	250
SKS-HRHP200HY00	50	25	320	300	320	300	250



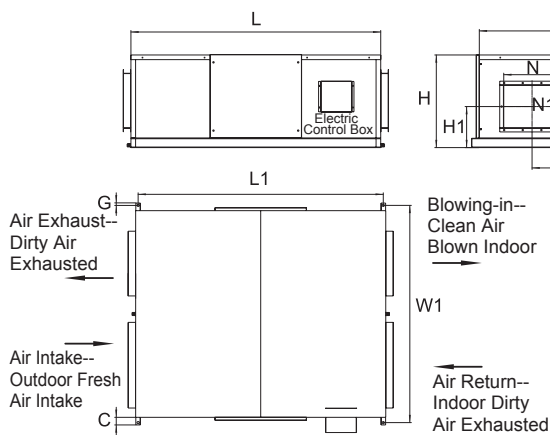
Technical Parameters:

Model	Air Volume m³/h	Enthalpy Efficiency (Summer) η _i	Enthalpy Efficiency (Winter) η _i	External Static Pressure Pa	Power Supply	Input Current A	Input Power	Noise Level dB(A)	Weight kg
SKS-HRHP150HY00	1500	55	63	180	380~415V/50Hz	2.78	2×0.41	48	151
SKS-HRHP200HY00	2000	54	62	160		2.89	2×0.52	49	172



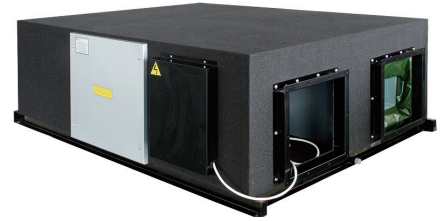
SKS-HRHP250HY00 ~ SKS-HRHP300HY00

Product Dimensions:



Model	L	L1	W	W1	W2	H	H1
SKS-HRHP250HY00	1610	1580	1330	1400	655	600	265
SKS-HRHP300HY00	1700	1670	1500	1570	750	640	272

Model	C	G	N	N1	N2	N3	H2
SKS-HRHP250HY00	50	15	365	275	500	350	300
SKS-HRHP300HY00	50	15	365	275	500	350	309

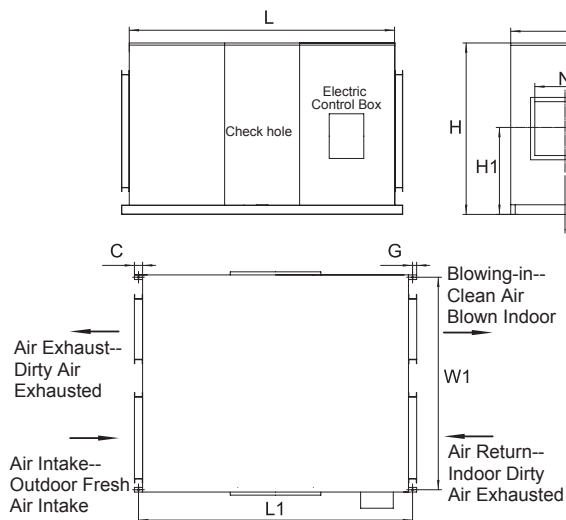


Technical Parameters:

Model A	ir Volume m³/h	Enthalpy Efficiency (Summer) η_1	Enthalpy Efficiency (Winter) η_1	External Static Pressure Pa	Power Supply	Input Current A	Input Power kW	Noise Level dB(A)	Weight kg
SKS-HRHP250HY00	2500	54	62	180	380~415V/50Hz	3.86	2 × 0.72	53	185
SKS-HRHP300HY00	3000	55	63	200		5.12	2 × 1.16	56	222

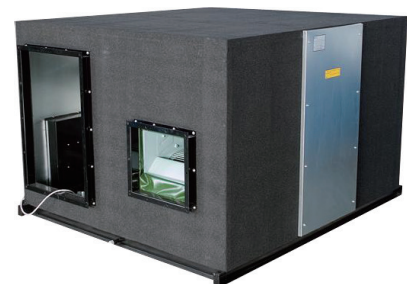
SKS-HRHP400HY00 ~ SKS-HRHP500HY00

Product Dimensions:



Model	L	L1	W	W1	W2	H	H1
SKS-HRHP400HY00	1625	1675	1330	1300	665	1050	490
SKS-HRHP500HY00	1625	1675	1330	1300	665	1050	490

Model	C	G	N	N1	N2	N3	H2
SKS-HRHP400HY00	50	25	370	330	500	690	475
SKS-HRHP500HY00	50	25	370	330	500	690	475



Technical Parameters:

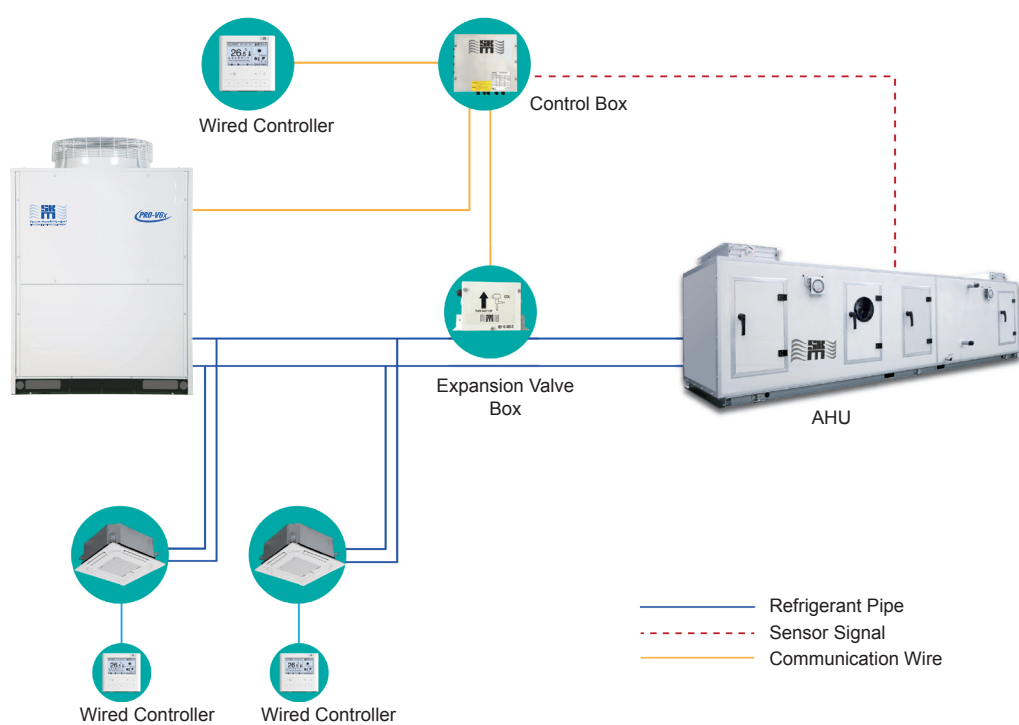
Model A	ir Volume m³/h	Enthalpy Efficiency (Summer) η_1	Enthalpy Efficiency (Winter) η_1	External Static Pressure Pa	Power Supply	Input Current A	Input Power kW	Noise Level dB(A)	Weight kg
SKS-HRHP400HY00	4000	55	63	220	380~415V/50Hz	5.89	2 × 1.71	57	312
SKS-HRHP500HY00	5000	53	61	240		8.78	2 × 2.2	58	321

AHU Connection KIT

The SKM AHU-KIT can integrate external heat exchangers of Air-handling units (AHU) into a SKM VRF system to be used for fresh air applications, which can provide more flexible air conditioning solutions and save more cost in the building air conditioning renovation.

Main Function

- ON/OFF Control
- Temperature Setting
- Capacity Demand
- Operation Mode





Selection and Limitation of Heat Exchanger of AHU

The Heat Exchanger of AHU (field-supplied) should be selected according to the following technical data and limitations. Lifetime of the outdoor unit, operation range or operation reliability may be influenced if these limitations are neglected.

AHU Connection KIT		HSA-IJ0010	HSA-IJ0020	HSA-IJ0030	HSA-IJ0040		HSA-IJ0050					HSA-IJ0060					
Model Power Supply		AC1Ø 220~240V/50HZ															
Nominal Capacity of AHU		HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Allowed Heat Exchanger Capacity (H/M/L)	Cooling	KW	4.0	7.1	11.2	16.0	20.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0
		KW	5.0	9.0	14.0	20.0	25.0	30.0	35.0	43.0	48.0	52.0	58.0	65.0	71.0	76.0	82.0
		KW	5.6	11.2	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	69.0	73.0	80.0	85.0
	Heating	KW	4.5	8.0	12.5	17.9	22.4	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0
		KW	5.6	10.0	16.0	22.4	28.0	33.5	40.0	47.5	53.0	60.0	66.0	75.0	79.0	86.0	92.0
		KW	7.1	12.5	18.0	25.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0	77.5	82.5	90.0	95.0
Heat Exchanger Volume	Min	dm³	0.57	1.03	1.92	2.92	3.89	4.76	5.85	6.79	7.57	8.47	9.04	9.50	10.39	11.39	12.36
	Max	dm³	1.16	2.37	2.92	3.89	4.76	5.91	6.89	8	8.92	9.97	11.13	12.34	12.89	13.86	14.73
Equivalent Indoor Unit Capacity		HP	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
Control Box Model			HSA-IJ/1														
Expansion Valve Box Model			HSA-IJ0010/2	HSA-IJ0020/2	HSA-IJ0030/2	HSA-IJ0040/2		HSA-IJ0050/2					HSA-IJ0060/2				

*Cooling and heating capacity data based on the following indoor and outdoor temperature conditions:

Operation conditions		Cooling	Heating
Indoor air inlet temperature	DB	27.0 °C	20.0 °C
	WB	19.0 °C	—
Outdoor air inlet temperature	DB	35.0 °C	7.0 °C
	WB	—	6.0 °C

DB:dry bulb WB: wet bulb
Pipe Length:7.5m pipe height 0m

Controller System

With High Intelligence

The intelligent control system of SKM central air conditioning can realize automatic control through one computer which makes it easy to learn the overall system operation and detect and solve problems promptly. Meanwhile, this system can achieve electricity household metering with humanized intelligent control and efficient and convenient management to make users enjoy the modern intelligent life.

Wired Controller

Main Functions

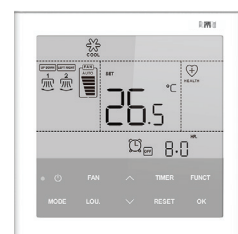
- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Fan speed/Swing Louver
- ◆ Temperature Setting
- ◆ Holiday Setting
- ◆ Weekly Timer
- ◆ Check
- ◆ Error Code Display
- ◆ Error History Display
- ◆ Lock
- ◆ Timer
- ◆ Air Filter Cleaning Reminding
- ◆ Address Setting



HSW-IA0020

Main Functions

- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Multiple Speed
- ◆ Swing Louver
- ◆ 72-hour Timer
- ◆ Optional Setting
- ◆ Max. 16 Indoor Units can be Connected
- ◆ 0.5°C Temperature Setting
- ◆ One Touch Test Run
- ◆ 3D Airflow Setting
- ◆ Backlight Control
- ◆ Air Filter Cleaning Reminder
- ◆ Error Code Display
- ◆ Check



HSW-IA0010

Main Functions

- ◆ 86×86mm Smart Size
- ◆ Multiple Speed/Swing Louver
- ◆ Air Filter Cleaning Reminding
- ◆ Backlight
- ◆ Inserting
- ◆ Temperature Setting
- ◆ Check
- ◆ Control Max.6 Indoor Units
- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ 72-hour Timer
- ◆ Error Code Display
- ◆ Dehumidification



HSW-IA0050



Wired Controller

Main Functions

- ♦ Cooling/Heating/Dry/Fan/Auto
- ♦ Icon Function Display
- ♦ Touch Buttons
- ♦ Quiet
- ♦ Check
- ♦ Temperature Setting
- ♦ Air Filter Cleaning Reminding
- ♦ Dehumidification
- ♦ Fan Speed/Swing Louver
- ♦ 3 or 6 Speed Control
- ♦ Timer
- ♦ Test Run
- ♦ Optional Setting



HSW-IA0060

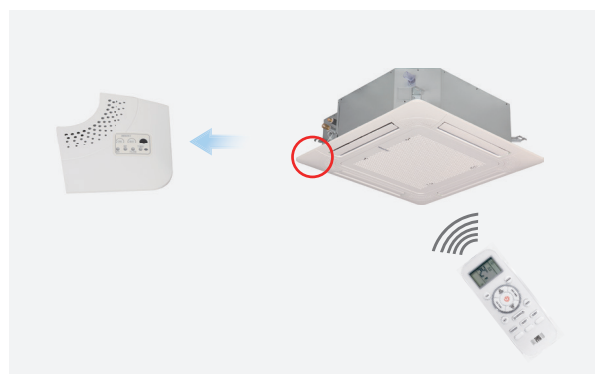
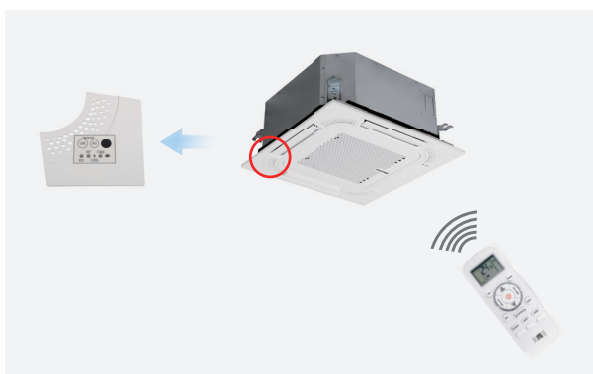
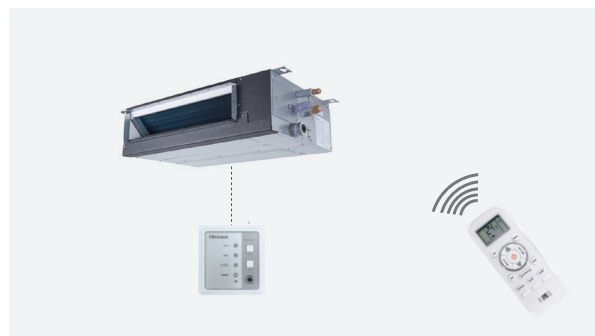
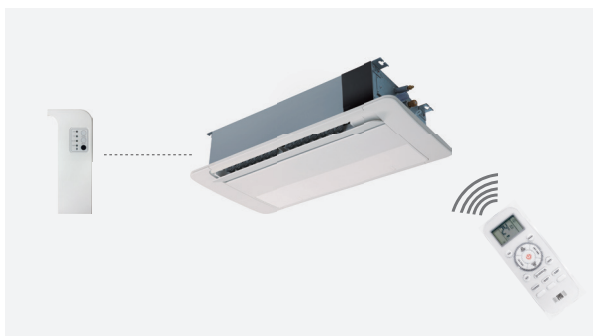
Main Functions

- ♦ Cooling/Heating/Dry/Fan/Auto
- ♦ 24-hour Timer
- ♦ Dehumidification
- ♦ Temperature Setting
- ♦ Quiet Mode Setting
- ♦ 6 Fan Speed/Swing Louver
- ♦ Sleep Mode Setting



HSR-IB0010

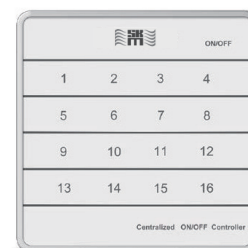
Receiver Kit for Wireless Control - Optional



Centralized Controller

Main Functions

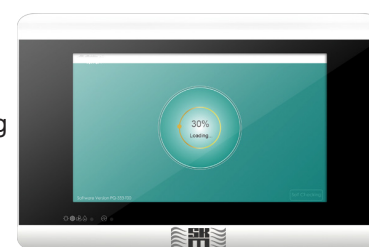
- ◆ Group Control(ON/OFF)
- ◆ Indoor Units Auto Login in
- ◆ Indoor Unit Power OFF Reminder
- ◆ Error Reminder



HSC-IE0010

Main Functions

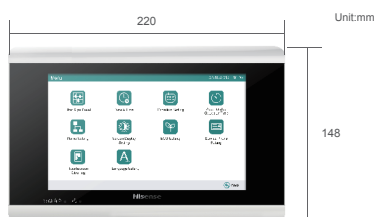
- ◆ Clock Setting
- ◆ Time Display Mode Setting
- ◆ Energy Saving Control Mode
- ◆ Backlight
- ◆ Holiday Setting
- ◆ Setting Temperature Limitation
- ◆ Power Indicator
- ◆ Backlight Brightness
- ◆ Backlight Auto-off Time Adjusting
- ◆ Alarm History
- ◆ Adjusting
- ◆ Weekly Schedule
- ◆ Service Hotline Setting



HSC-ID0010

Smooth Appearance

Easy Installation



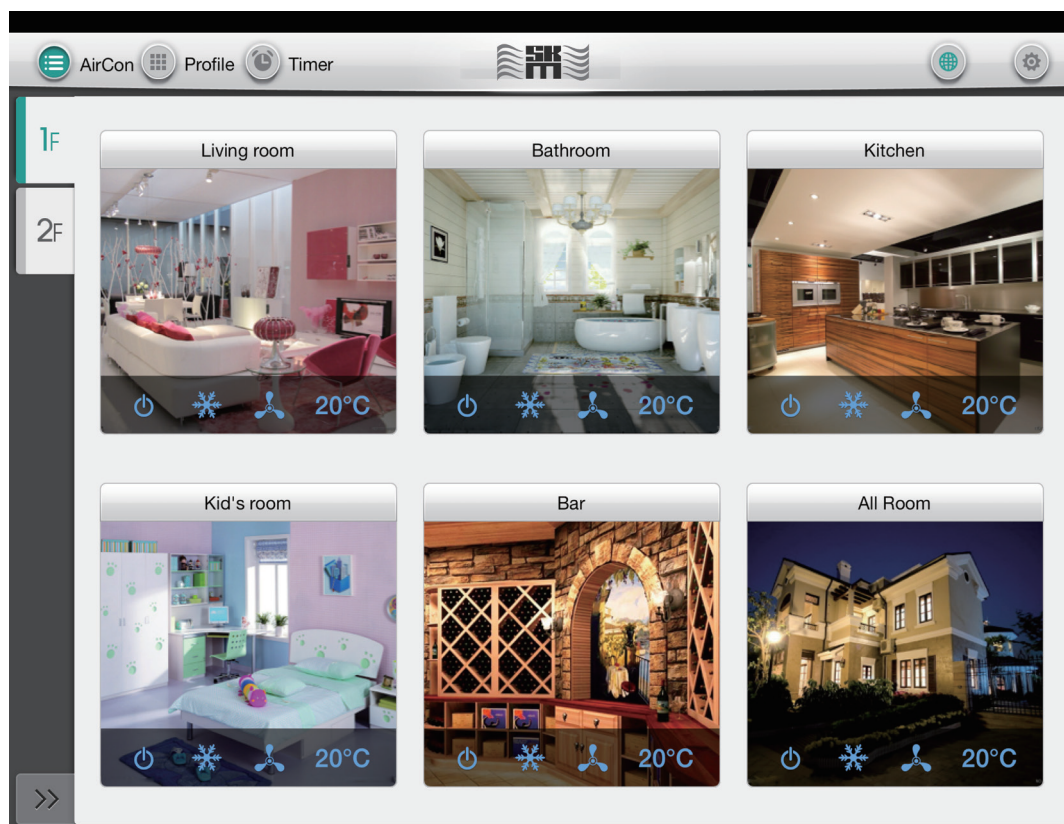


Type		Wired Controller				Wireless Controller
Model		HSW-IA0010	HSW-IA0020	HSW-IA0050	HSW-IA0060	HSR-IB0010
Picture						
Suit for indoor unit	Ceiling Duct Type	○	○	○	○	○
	4-Way Cassette	○	○	○	○	○
	Mini 4-Way Cassette	○	○	○	○	○
	1-Way Cassette	○	○	○	×	○
	2-Way Cassette	○	○	○	×	○
	Ceiling&Floor	○	○	○	○	✓
	Wall Mounted	○	○	○	○	✓
	Floor Concoaled	○	○	○	×	○
	DC Low Height AC Low Height	○	○	○	○	○
	Console Type	○	○	○	○	✓
	All Fresh Air Indoor Unit	○	○	○	○	○
	Heat Recovery Ventilation	○	○	✓	○	×
	3D Air-flow Panel	○	○	○	×	○
	AHU KIT	○	○	○	×	×

Type		Receiver Kit			Centralized Controller	ON/OFF
Model		HSR-IC0010	HSR-IC0040	HSR-IC0050	HSC-ID0010	HSC-IE0010
Picture						
Suit for indoor unit	Ceiling Duct Type	○	×	×	○	○
	4-Way Cassette	×	×	○	○	○
	Mini 4-Way Cassette	×	○	×	○	○
	1-Way Cassette	×	×	×	○	○
	2-Way Cassette	○	×	×	○	○
	Ceiling&Floor	○	×	×	○	○
	Wall Mounted	○	×	×	○	○
	Floor Concoaled	○	×	×	○	○
	DC Low Height AC Low Height	○	×	×	○	○
	Console Type	○	×	×	○	○
	All Fresh Air Indoor Unit	○	×	×	○	○
	Heat Recovery Ventilation	×	×	×	○	○
	3D Air-flow Panel	○	×	×	○	○
	AHU KIT	×	×	×	○	○

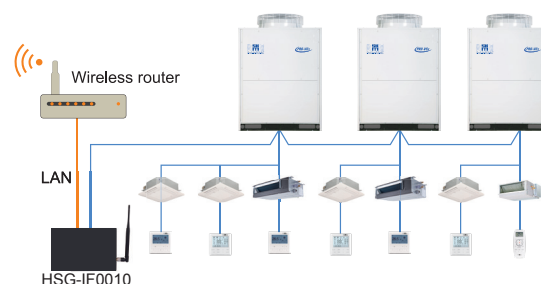
Remarks: ✓ Standard ○ Optional × Incompatibility

Centralized Controller



Main Functions

- ♦ ON/OFF control, Operation mode,
- ♦ Temperature setting
- ♦ Operate according to a schedule
- ♦ Display the alarm code
- ♦ 16 operation modes
- ♦ Max. 32 indoor units can be controlled
- ♦ Dimension: 215×137×38 mm



Adapter Specifications

Model name	HSG-IF0010	Operating temperature	0°C ~ 40°C
Input voltage	AC 110~240V 50Hz	Maximum operating current	10mA (220V)

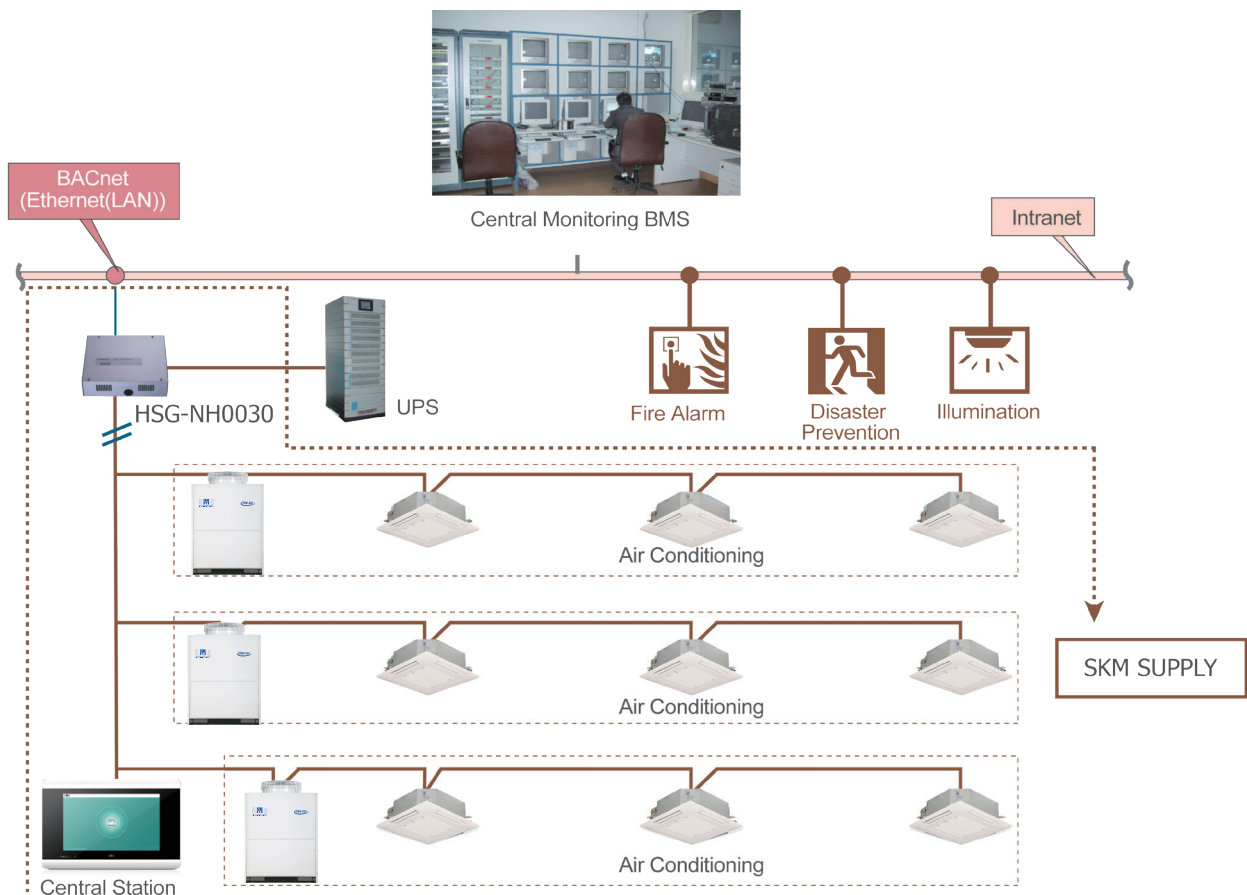


Building Management System

Compatible to multiple communication protocols of BACnet, MODBUS etc. Connectible to BMS or Smart Home System via HSG-NH0030 or HSG-IH0010 all of which can connect to Max. 64 indoor units.

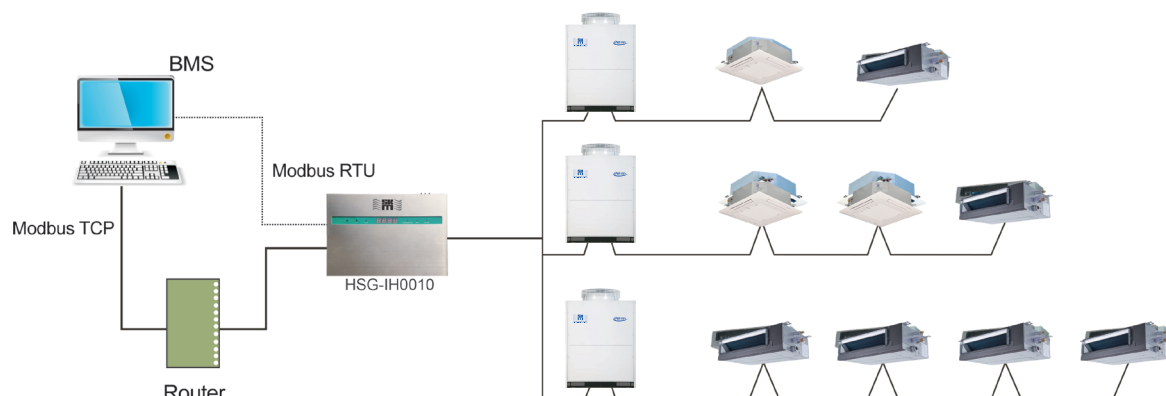
Real-time operation status monitoring on request.
Operation commands from monitoring center

HSG-NH0030 BACnet



- ◆ Running-state Monitoring / On-off Setting
- ◆ Airflow Setting and Monitoring
- ◆ Wireless Controller Permission/Prohibition
- ◆ Operating Mode Setting
- ◆ Alarm Monitoring and Code Display
- ◆ Indoor Temp. Monitoring
- ◆ Temperature Setting and Monitoring
- ◆ Communication Failure Display
- ◆ Filter Cleaning Prompting

HSG-IH0010 Modbus



- ◆ On-Off Setting
- ◆ Operating Mode Setting
- ◆ Airflow Setting and Monitoring
- ◆ Wind Setting and Monitoring
- ◆ Temperature Setting
- ◆ Inlet Air Temp. Monitoring
- ◆ All Units On/Off Control
- ◆ Alarm Monitoring and Code Display

Converter Specifications

Converter		HSG-NH0030	HSG-IH0010
Item			
BMS Connection		BACnet	Modbus
Power Supply		AC100~240V±10%(50Hz)	AC100~240V±10%(50Hz)
Connectable Central Controller		HSC-ID0010	HSC-ID0010, SKM, HSC-IE0010
Max. Number of Connectable indoor Units		64	64
Dimension (LxWxH)		240mm×204mm×70mm	220mm×140mm×50mm



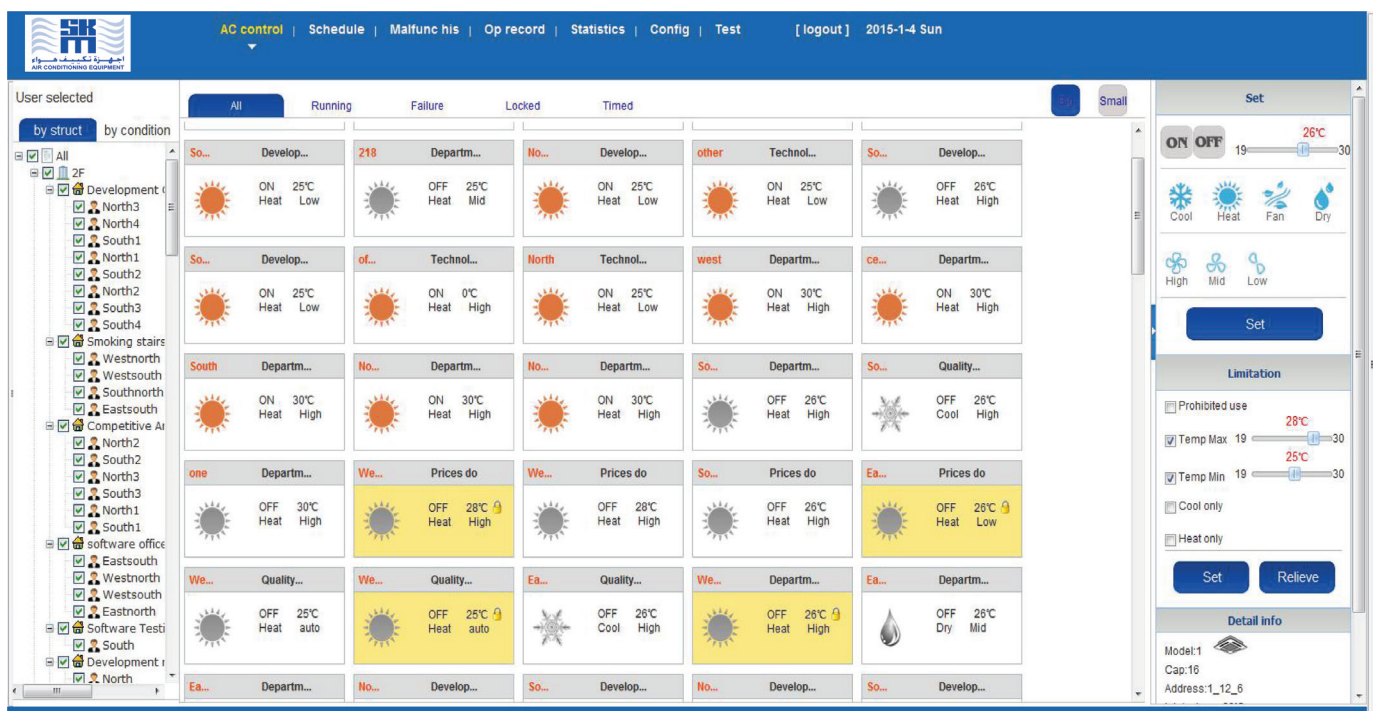
Building Management System with Billing System Feature

Centralized Control

SKM air conditioning management system adopts communication bus connection, air conditioning indoor units are connected to the computer through network converter; the system is controlled automatically by a computer with powerful functions. One single computer control system can manage 4,096 indoor units.

Main Functions

- ◆ Running-state Monitoring
- ◆ Determine the Temperature Limit
- ◆ Running Records Display
- ◆ Controller Prohibition Function
- ◆ Access Control
- ◆ Automatic Operation According to Settings
- ◆ Multifunction Alarm
- ◆ Service Monitoring



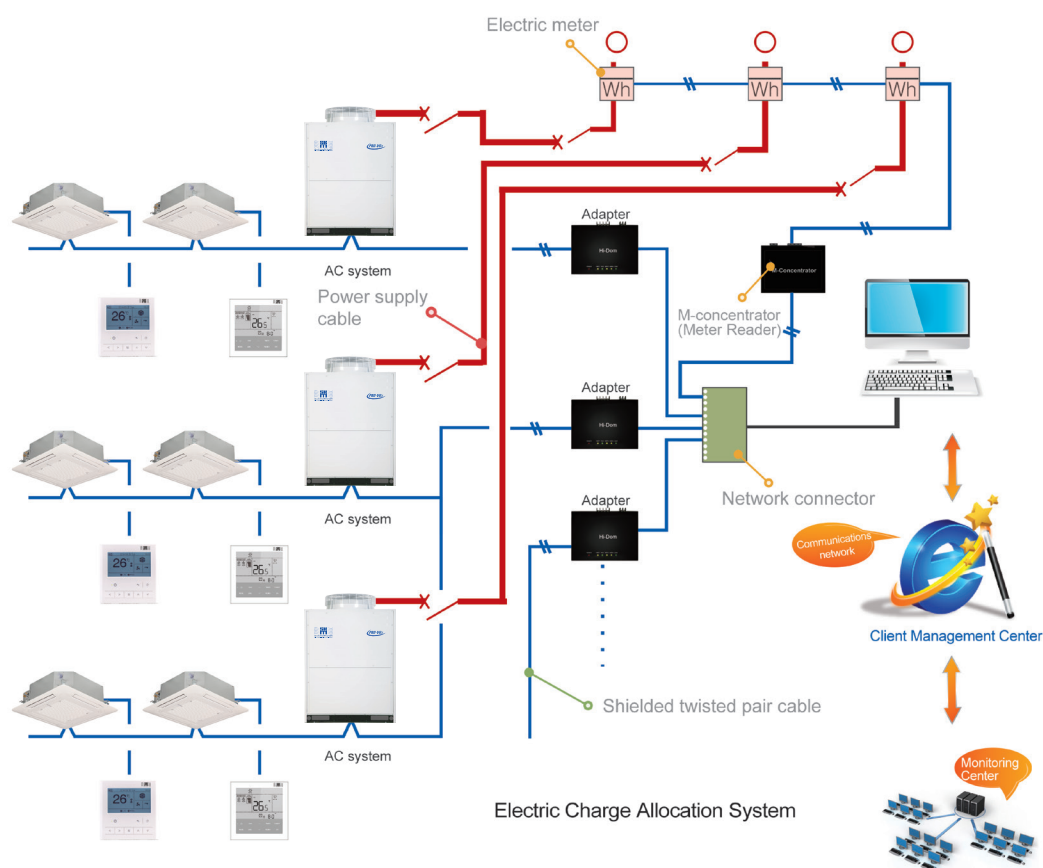
All the indoor units and outdoor units connected with one adapter comprise one communication BUS system.
 Max.128 indoor units can be connected to an adapter
 Max.32 adapters can be controlled by one computer.
 Max.4096 indoor units are under control.

Electric Charge Allocation

SKM air conditioning management system consists of meter reading system and air conditioning management system. In accordance with the operation time and capacity output of indoor and outdoor units, the electric charge allocation software allocates the total power consumption to each indoor unit.

Note: Due to different laws and regulations in different regions, SKM electrical charge calculation software need to customize processing in project according to the users' requirement.

Note: Only



SKM System Specifications

Adapter (SKM)	Model Name	Power Supply	Dimension(mm)	Charging Function
	HSG-IG0010	DC 12V	180×110×40	With charging function
	HSG-IG0020	DC 12V	180×110×40	Without charging function
	HSG-IG0030	DC 12V	180×110×40	—

Note: HSG-IG0030 is an essential equipment for HSG-IG0010 to charging.



Drain Pump - Optional

Model	Power supply	Consumption	MAX. Lift (mm)	Applicable models	HPS-132/HPS-162	HPS-151
HSP-IL0020	AC 220~240V(50Hz)	9±1.5 W	900	For Ceiling ducted type(0.8~2.5HP)		
HSP-IL0010	AC 220~240V(50Hz)	9±1.5 W	900	For Ceiling ducted type(3.0~6.0HP)		
HSP-IL0030	AC 220~240V(50Hz)	9±1.5 W	600	External type,for general purpose(0.8~10HP)		

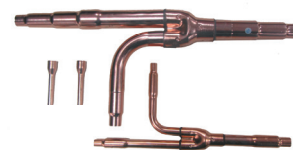
3D Air-Flow Panel

Panel Model	Applicable Models	Outer Dimensions (H×W×D)	Interface Dimension (H×W×D)
HSO-IK0010	0.8~1.5HP	180×950×70	750×130
HSO-IK0020	1.8~2.5HP	180×1220×70	1020×130

Receiver Kit for Wireless Control

HSR-IC0010	HSR-IC0040	HSR-IC0050	HSR-IC0030	NOTE
				HSR-IC0010 is for Ceiling Ducted, 2-Way Cassette, Floor Concealed, All Fresh Air Indoor Unit and 3D Air-flow Panel HSR-IC0040 is for Mini 4-Way Cassette HSR-IC0050 is for 4-Way Cassette HSR-IC0030 is for 1-Way Cassette

Branch Pipe Parameter

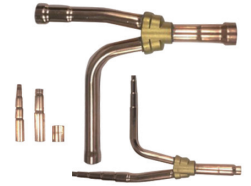


Model	Gas Line	Liquid Line	Reducer for Gas Line	Reducer for Liquid Line
HSB-II0150				
HSB-II0010				
HSB-II0020				
HSB-II0030				
HSB-II0040				
HSB-II0050				
HSB-II0060				

Unit: mm, ID: Inner Diameter, OD: Outer Diameter



Manifold Pipe Parameter



Model G	as Line	Liquid Line	Reducer for Gas Line	Reducer for Liquid Line
HSB-OI0110				
HSB-OI0120				
HSB-OI0130				
HSB-OI0140				

Unit: mm, ID: Inner Diameter, OD: Outer Diameter

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