PRO-VMx

SKM VRF Air Conditioners

اجهـــزة تكـيـيـف هـــواء
AIR CONDITIONING EQUIPMENT

50Hz

R-410A
REFRIGERANT

Product Range: 3-12HP

CE

Why SKM VRF?

Because It....

- Adopts newest technology.
- Owns comprehesive product lineup.
- Maintains high efficiency performance with reliable quality.
- Assures convenient and fast transportation and installation.
- Meets intelligent control system.
- Serves as a local team of sale, technical supports and maintenance.

Contents

Legend

The following legends are used throughout this manual

cfm..... Cubic Feet per Minute
Hz ..... Hertz
kW ..... Kilowatts
kg..... Kilogram
lbs..... Pounds
l/s..... Liters per Second
Pa ..... Pascal
in. wg . Inch Water Gauge

AFR ... Air Flow Rate
MBh ... BTUH x1000
Ph ..... Phase
PI ..... Power Input of Compressor
BPF.... By Pass Factor
TR..... Tons of Refrigration
V ..... Volts

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

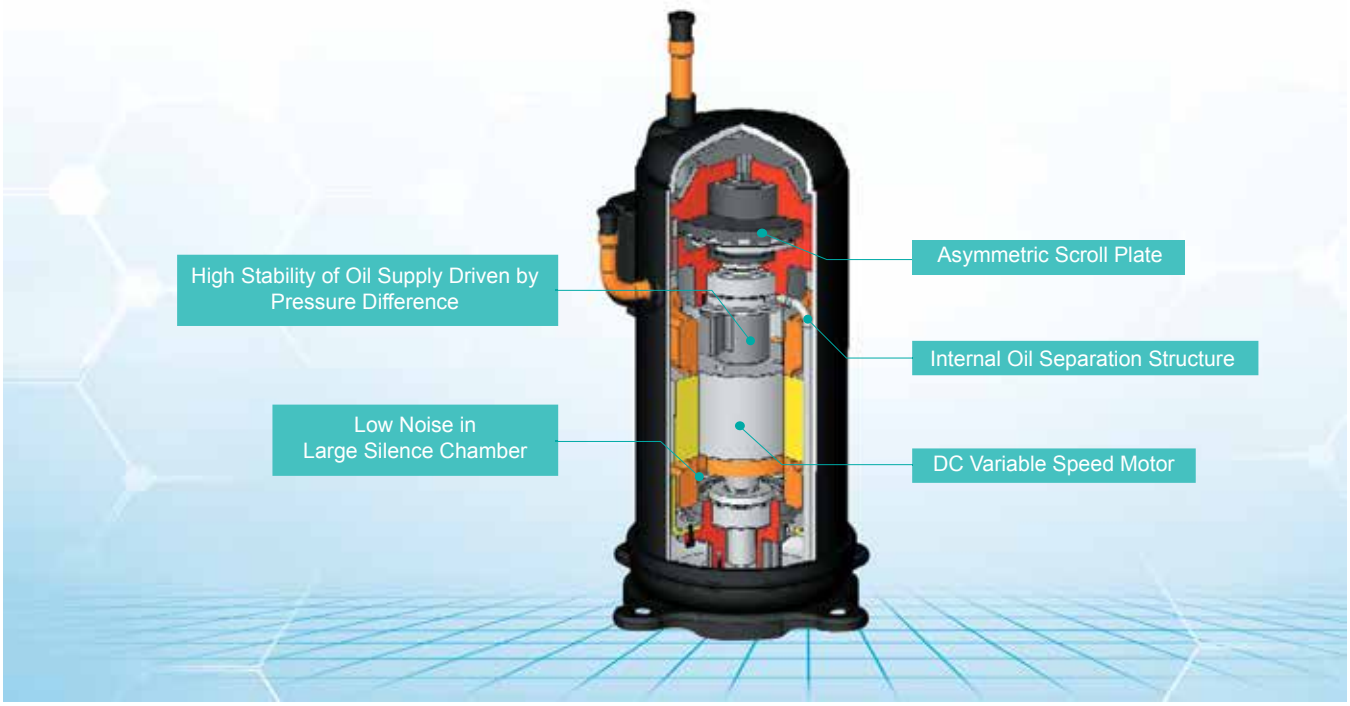
High Efficiency

Strong Heating Performance

Statistics shows that the central air conditioning consumes 40% to 60% energy of the entire building therefore energy-saving air-conditioning is essential for the modern building.

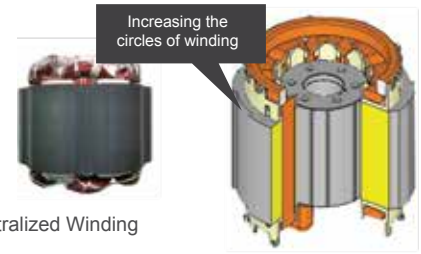
High-efficiency DC Inverter Compressor

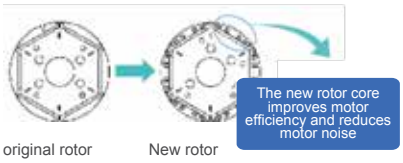
High-efficiency full DC inverter compressor is used for products of SKM VRF Series, whose motor is more efficient and energy-saving. The compressor has a special anti-vibration structure design, ensuring stable operation, small vibration and a long service life. The design promotes the high reliability and low noise of outdoor unit, greatly improving user experience.

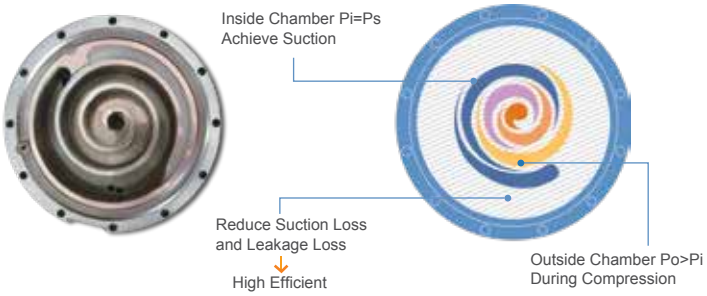


Asymmetrical Scroll Structure

The asymmetric scroll structure effectively reduces refrigerant gas leakage during suction and compression and enhances operation efficiency and reliability.





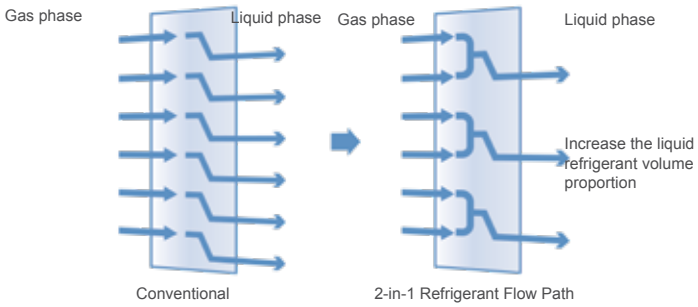


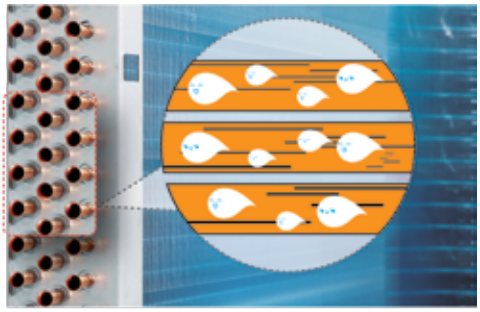
- The concentrated winding stator lowers the copper loss and increases higher compressor efficiency; the stator coil applies “keel motor” manufacturing techinique to enhance the compressor COP, and to further enhance the compressor efficiency under low load.
- The new 6-pole high efficiency rubidium magnet rotor core of motor rotor improves the motor efficiency and reduces noise of the motor.

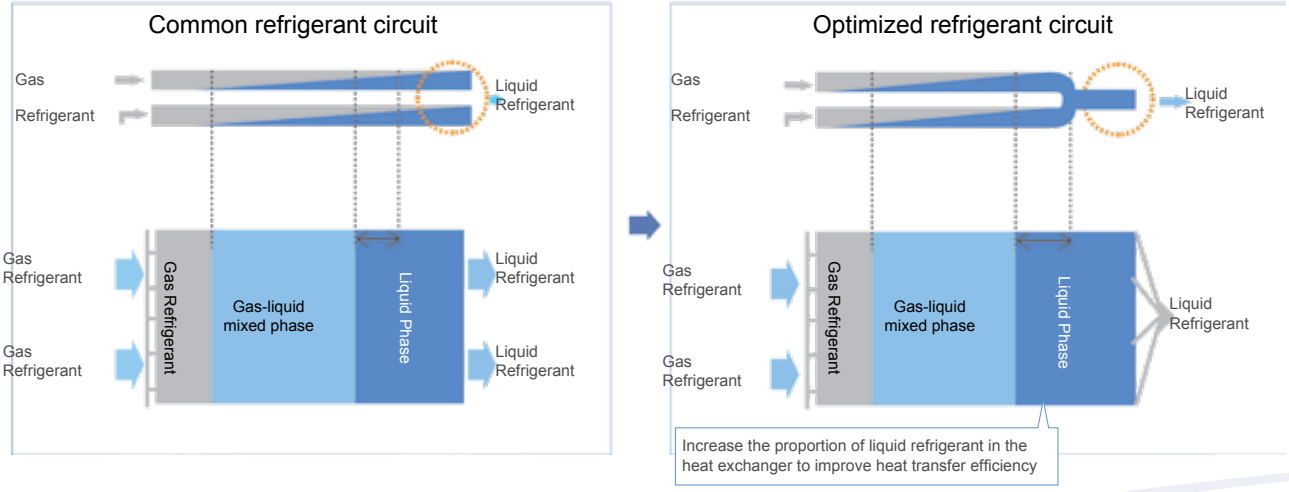
The New Heat Exchanger, More Efficient and Powerful

Optimized Refrigerant Circuit

Using high precision imported equipment, our SKM VRF manufactured heat exchangers are of the highest quality. The non-expansion tube technology avoids reduced lifetime reliability caused by the stretching of copper pipes. The multi-column Φ7 refrigerant tubes effectively increase the heat exchange area and improve the heat exchanging efficiency.

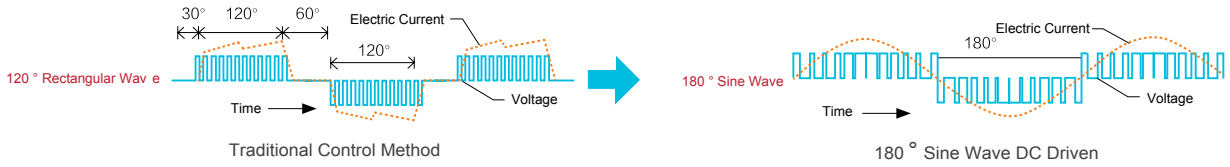






Latest 180° Sine Wave DC Variable Speed Driven Technology

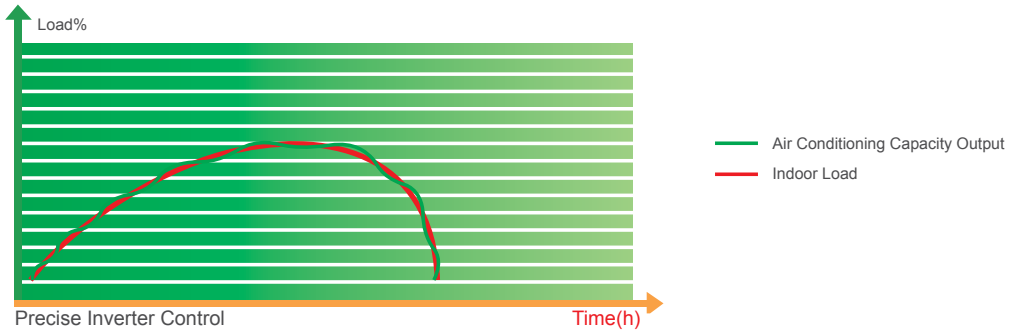
The industry's advanced inverter, which is the upgraded product of mainstream IGBT inverter, is adopted. Its small size and high precision, as well as the internal multiple protection controls (over voltage, under voltage, phase shortage, phase dislocation, overcurrent, overheating etc.), greatly improve the control accuracy and reliability of the inverter.



DC Frequency Inverter Technology in Compressor

Stepless Frequency Conversion Control Technology

SKM VRF Series adopts a high-precision inverter compressor with an adjustment range of 0-450Hz and the control accuracy is 0.01Hz. The operating speed of outdoor DC inverter compressor can be adjusted continuously and freely, which does not only improve user experience, but also enhances the energy efficiency of the unit.

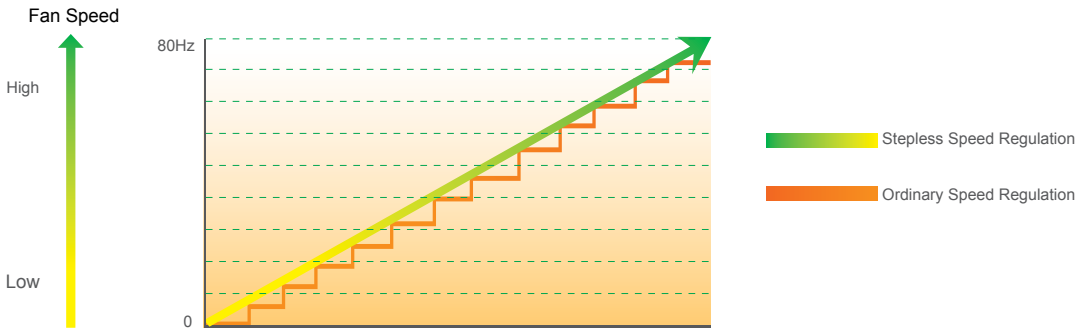


Fans of Outdoor Units With Variable Speed Control, More Efficient and More Stable

DC variable speed motor are used on outdoor fans which increases the motor efficiency by 40 percent and significantly reduces the power consumption. Matching the stepless frequency conversion technology of the compressor the fans carry out stepless speed control with high precision influenced by the environmental conditions and air conditioning load conditions therefore ensuring that the system runs more steadily and reliably.

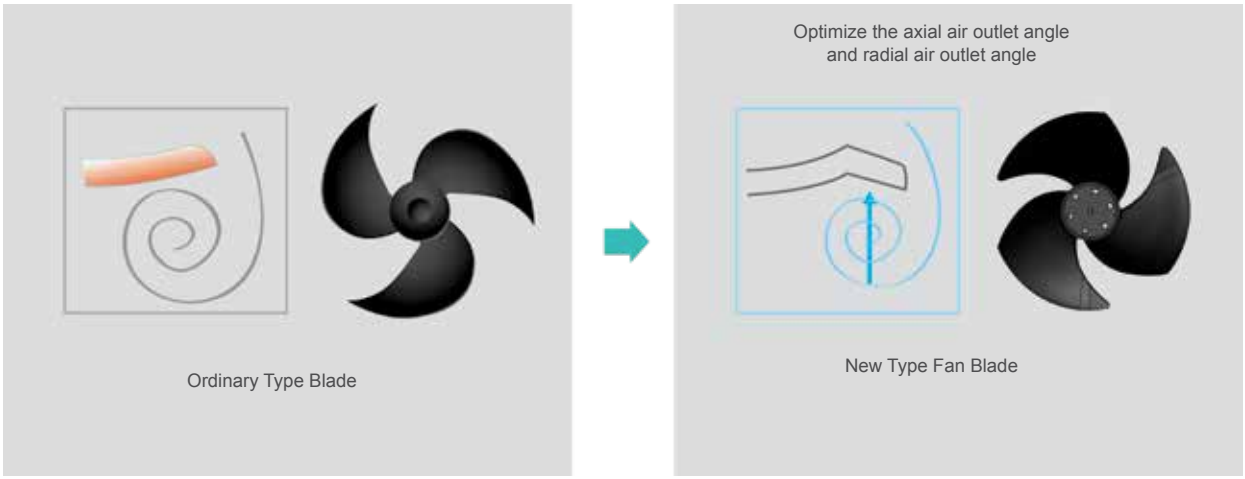
Stepless Frequency Conversion Speed Control of Fan

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.



The New High Efficiency Axial Fan

The new high efficiency axial fan can reduce turbulence around the fan by up to 60% with even lower running sound. The use of noise reduction mica composite materials with good sound-absorbing effect can significantly reduce the “buzzing”.



Stable Operation

With High Intelligence

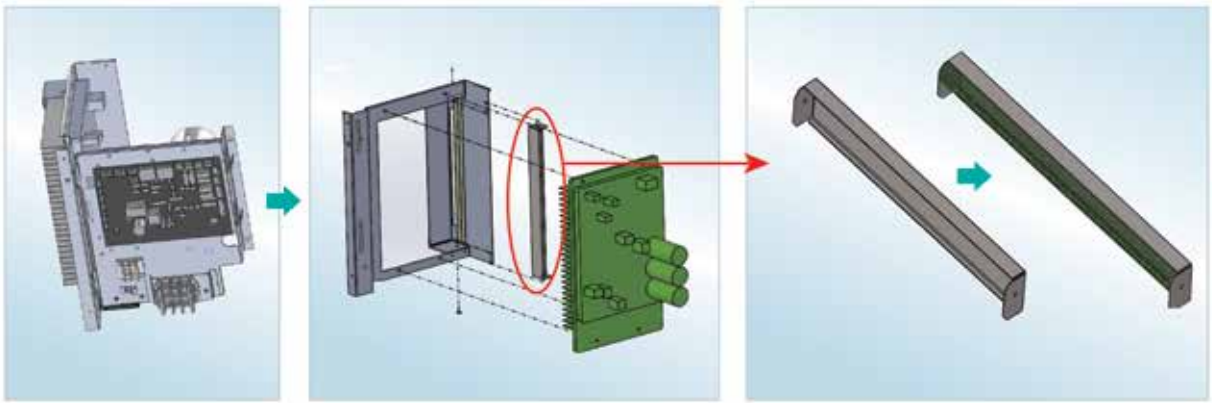
SKM VRF Series has an innovative structure appearance It applies a variety of intelligent technologies which achieves intelligent operation from component selection to unit operation.

Aviation Level Grille Design

SKM VRF Series creates a high-quality quiet environment. The design of the grilling follows the design concept of the aircraft engine design, which conforms to the aerodynamics principle. The noise has been greatly reduced. The grill also increases safety.

Electrical System Insect-resistant Design

Electrical system add insect-resistant design, effectively prevent insect damage to the electrical system, improve the electrical system.



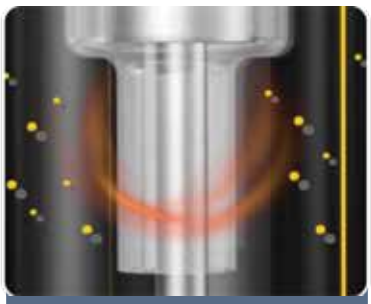
Multiple Oil Separation Circuits Ensuring High Efficiency and Reliability

Utilizing multiple oil separation technology, oil return and advanced system control the oil balance between outdoor units can be maintained ensuring the stable and reliable system operation with oil return of up to 99%.

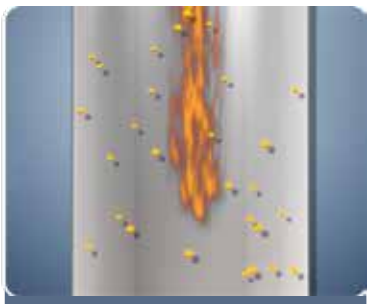
Multistage Oil Separation Technology

With multiple oil separation technology, through components such as barrier oil separation, centrifugal oil separation and gravity oil separation in the high-pressure chamber, industry leading internal multistage oil separation is carried out. Utilizing technology of oil supply through pressure differences and intelligent oil level control maintains a stable internal oil level with only a small amount of oil loss from the compressor. After the compressor, the small amount of oil discharged is re-separated by a high-efficiency centrifugal oil separator of large capacity and a gas-liquid separator. The overall separation efficiency is up to 99.9% or more.

Barrier Oil Separation



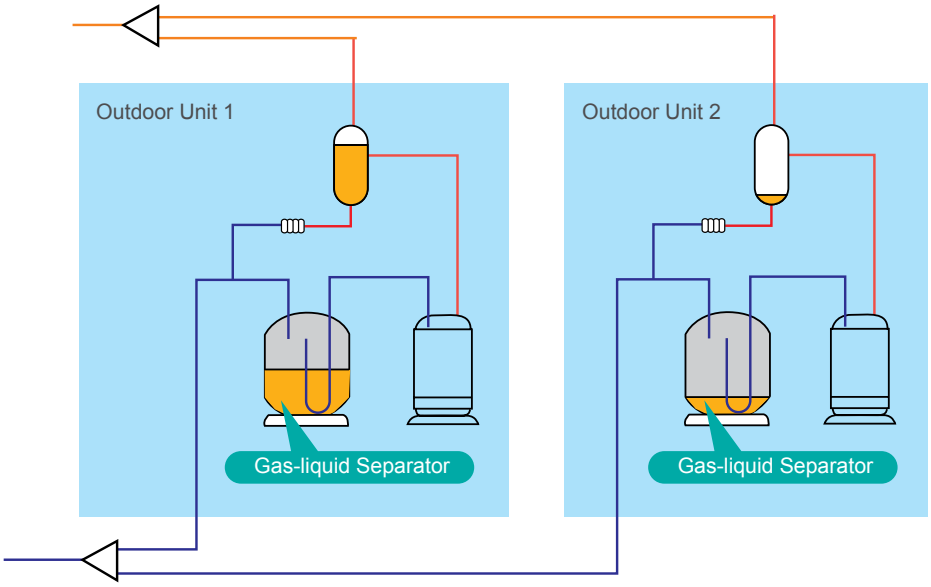
Gravity Oil Separation



Centrifugal Oil Separation

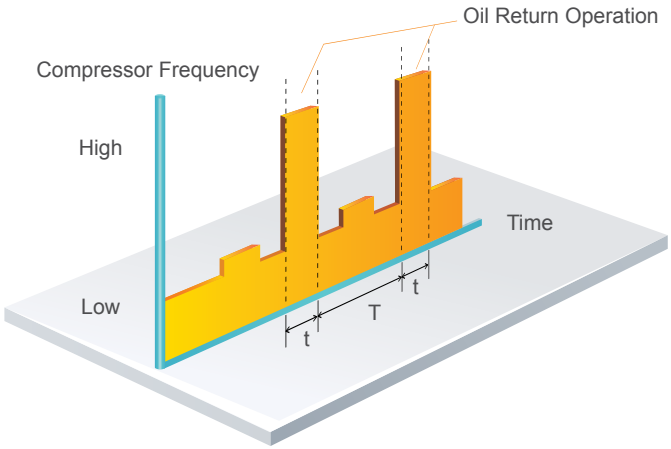
The First Stage Oil Return Control

Using porous oil return technology, the gas-liquid separator with a built-in high-efficiency fine mesh keeps the oil balance between modules.



The Second Stage Oil Return Operation

The system carries out oil return operation according to the compressor operating frequency and corresponding operating time, thus avoiding oil remaining in the indoor or outdoor heat exchanger when system runs with low load for a long time causing compressor failure by the lack of refrigeration oil. The oil return operation lasts only 60 seconds, after which, it will automatically return to the former status.



When heating in winter, there is no need to change the mode to carry out oil return operation, achieving oil return without stopping operation and a better heating effect.

Multiple Protections Ensuring Safer and More Stable Operation

Compressor Protection
- ○ Compressor suction
- ○ Discharge pressure protection
- ○ Compression ratio protection
- ○ Discharge temperature protection
- ○ Oil return protection

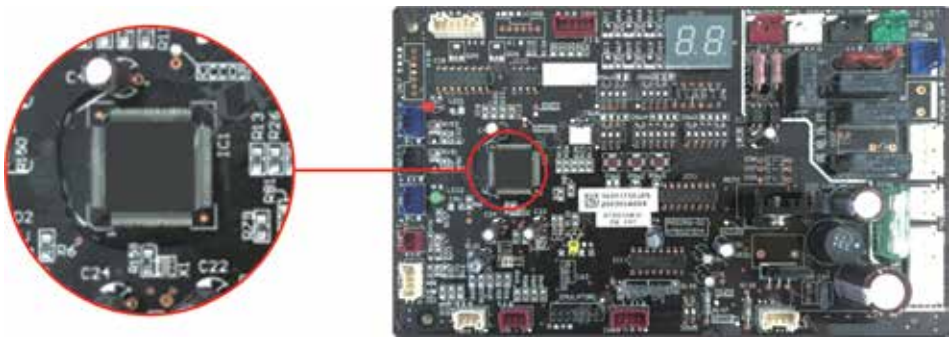
System Protection
- ○ Four-way valve protection
- ○ Indoor and outdoor temperature protection
- ○ Subcooling protection

Inverter Protection
- ○ Inverter temperature protection
- ○ Voltage protection

Electric Protection
- ○ Voltage phase failure
- ○ Current protection
- ○ Motor protection
- ○ protecting from Lightning

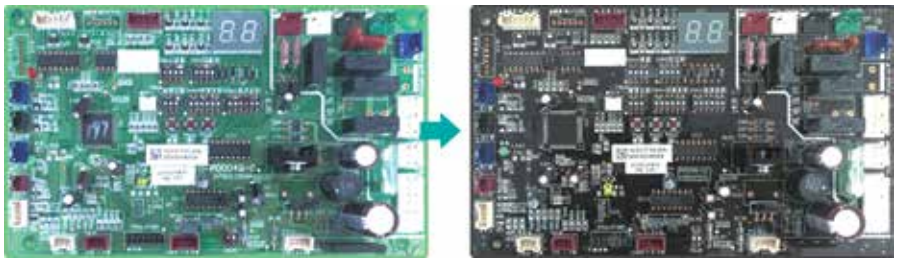
Error Information Storage “Black Box”

Both the main computer board and the wired controller of the outdoor unit can store error information so that the maintenance personnel can detect the operation information before the malfunction and determine the cause.



Black PCB Board Design

Indoor and outdoor substrates are made of double sided resin PCB board with high integration level, which make maintenance and repair simpler.

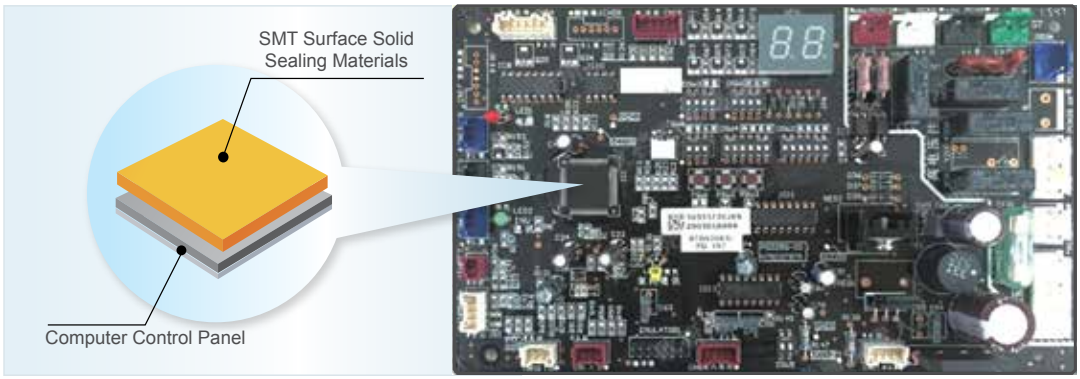


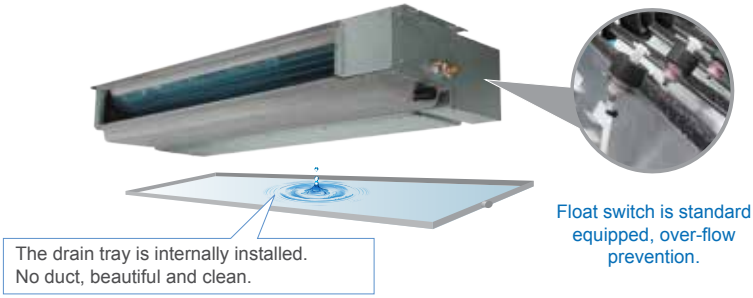
SKM PCB board:
Epoxy resin composite substrate: double-sided printing, SMD welding, high strength, good weather resistance, great flame retardancy, high reliability, compact structure, small size.

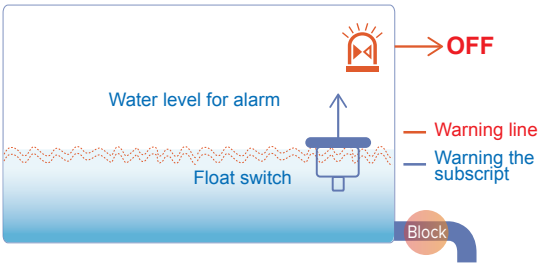
Ordinary PCB board:
Paper-made phenolic substrate: single-sided printing, inserting welding, bad weather resistance, less flame retardancy, big size.

Control Panel of High Reliability

The SMT sealing technology, through strict op e environment test, high temperature environment test, on-line inspection, functional inspection, and vibration and stress test, can effectively improve the anti-interference ability of the control panel without being affected by smog, sand storm, high temperature and humidity, and significantly improve the anti-corrosion performance.







Best Comfort

User-Friendly

In order to enhance user experience and pursue harmonious coexistence between human and ambient environment, SKM series focuses on improving the quality of the environment by handling and controlling air temperature, humidity, speed and air cleanliness, This will create a healthy and comfortable environment for all users.

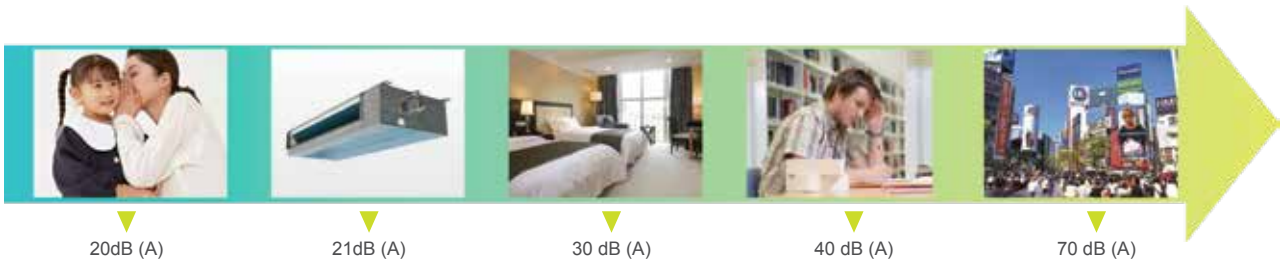
15 Mute Technologies Offer You A Quiet and Comfortable Environment

Advanced Mute Design, Ideal Mute Environment

At present, more and more people are beginning to pay attention to the quality of their living environment, which forms part of their high quality of life. SKM central air conditioning systems are concerned about peoples physical and mental well being and therefore focus on creating the most comfortable environment by attentively creating a harmonious and healthy atmosphere.

Noise Control of Indoor Unit

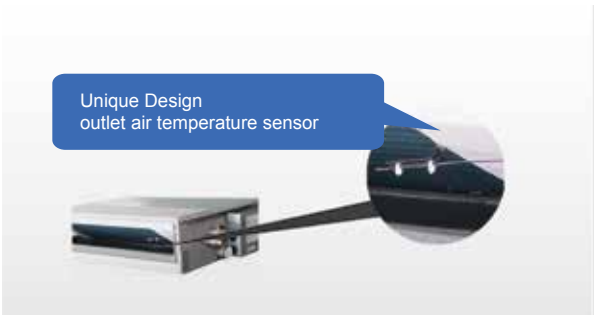
Based on the application occasions of the indoor unit and its structural characteristics, R&D Personnel of SKM do research on technical aspects and installation methods to reduce the noise levels in several aspects, such as electric fan motor, fan blades and duct layout, ensuring that users enjoy a quiet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



Precise Temperature Control

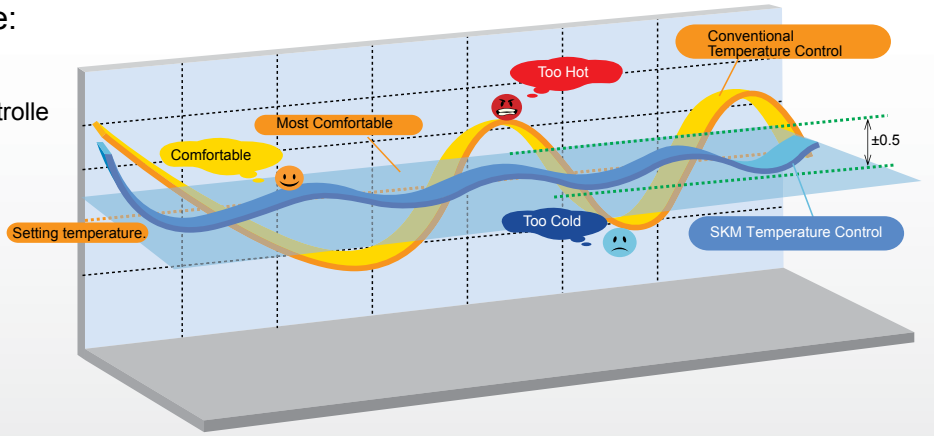
Multiple thermal probes in indoor unit to provide precise real-time temperature feedback.

2000-step electronic expansion valve to ensure precise flow adjustment based on the actual load of Indoor Unit.



Precisely judge indoor temperature:

(1)Air return temperature. sensor
(2)temperature. sensor on Wired remote controlle
(3)Based on the average value.
Suitable for irregularly
shaped room



Environmental Protection Concerns, Creating A Low-carbon Living Space

Environment-friendly Refrigerant

SKM 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 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 Meethods
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

Flexible Design And Installation

With High Intelligence

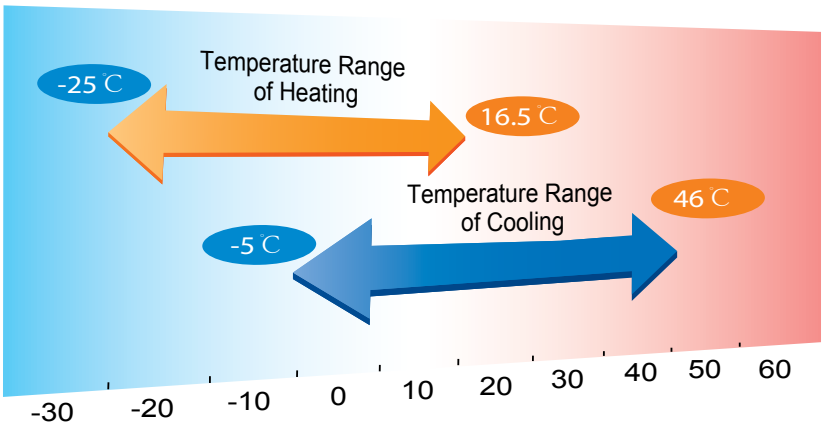
SKM Series has the flexibility design and installation which provide more convenience for users.

Light Weight Making Transportation and Installation Easier

The largest size of module 12HP is only 1650mm×1100mm×390mm (height×width×depth), which can be delivered through freight elevator, making transportation and installation easier.

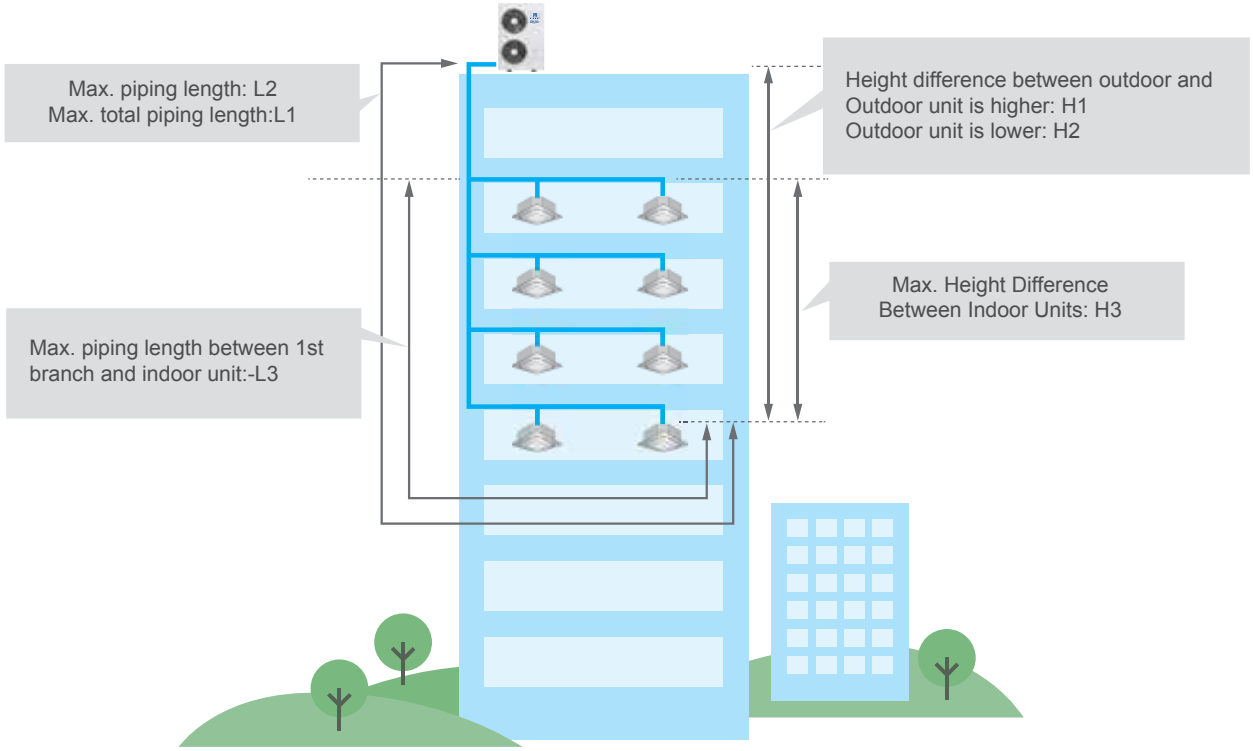
Wide Operating Range Meets Greater Demand

With a wide operating temperature range, the outdoor unit can operate from -25°C to 16.5°C. The heating effect in winter is strong, which perfectly meets the customers' needs in different environments. The unit is able to operate in -25°C ambient, when the unit is heating mode and also operate at 46°C ambient in cooling mode.



Flexible Refrigerant Piping Work

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

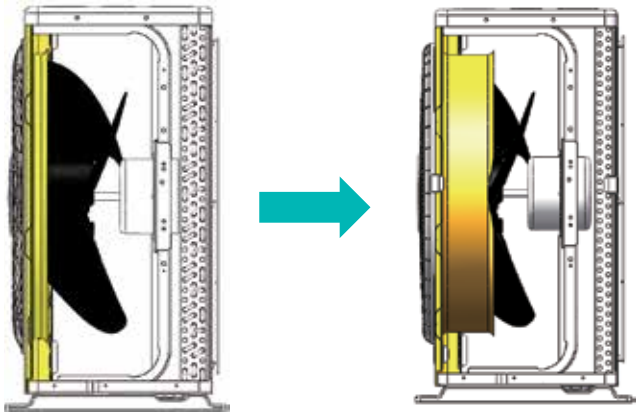


Note: For data marked by*, please contact with our professional engineer.

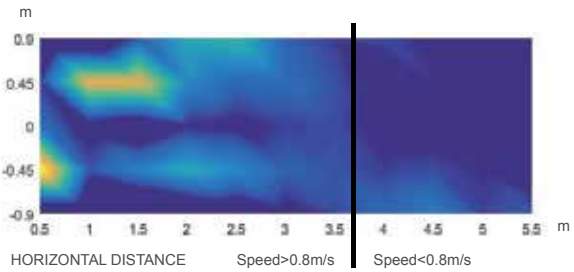
POWER SUPPLY		AC 220~240V 1Φ 50Hz			AC 380~415V 3Φ 50Hz	AC 220~240V 1Φ 50Hz	AC 380~415V 3Φ 50Hz	AC 380~415V 3Φ 50Hz
HP		3HP	4HP	5HP	5HP	4/5/6HP	5/6HP	8/10/12HP
Picture								
Total piping length-L1		30	40	60	60	120	120	250
longest length actual-L2		25	25	50	50	75	75	100
Longest length after first branch-L3		10	15	20	20	30	30	40
Level difference between indoor and outdoor unit up	Outdoor unit is higher-H1	20	20	20	30	30	30	50
	Outdoor unit is lower-H2	20	20	20	20	30	30	40
Level difference between indoor unit-H3		3.5	3.5	3.5	3.5	10	15	15

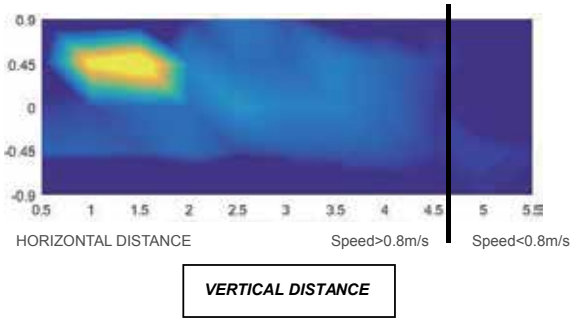
Optimize Air Duct System Design

Optimized air duct system design, improve air supply distance, avoid short circuit of return air and improve heat exchange ability.



Similarly, the wind speed of 0.8m/s is taken as the critical judgment point. According to the measured results, the air supply distance of the grille before changing is 3.7m.The modified air supply distance was 4.6m, and the air supply distance was increased by about 24%.





Indoor Unit Power-down Emergency Maintenance

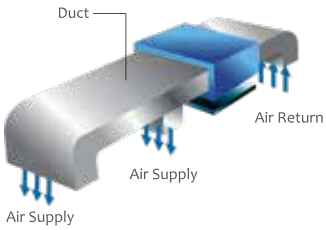
When a faulty indoor unit needs repairing, it can be powered off alone without affecting the entire system.

More Connected Indoor Unit

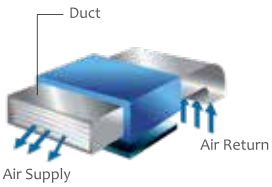
For one 12HP SKM Series unit, the most connected indoor unit is 19, which effectively reduces the cost, enhances the installation flexibility and increases the range of application.

A Variety of Air Return Modes to Fit Different Decoration Designs of the Room

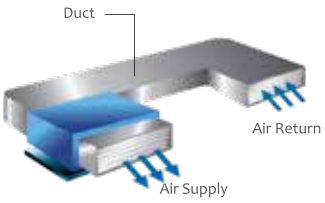
According to different construction structures and interior decoration of buildings, users can now select different duct layouts to suite recommended designer requests. The flexibility of return air applications allow SKM to fit most interior decoration demands and meet all layout requirements.



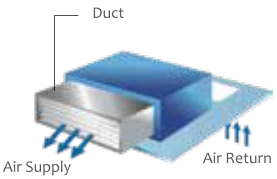
Ceiling Supply
Ceiling Return



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 recommend to use in the environment which has high level requirement of noise.

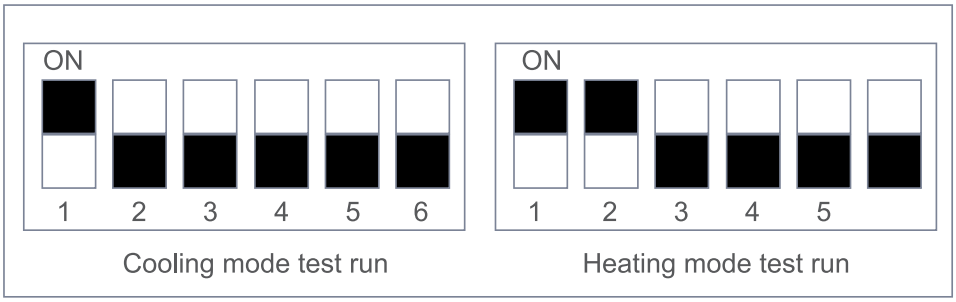
Refrigerant Automatic Judging

By judging the temperature of the outdoor environment where system is in operation, the air supply temperature and air return temperature of the indoor unit, the undercooling degree of the system, the high pressure and the low pressure, the refrigerant filling state of the outdoor unit can accurately and effectively be determined, so that the repair and maintenance become more convenient.

Advanced Commissioning Technology

There is a one-key commissioning 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.

Realizing test run through the controller at the indoor unit side

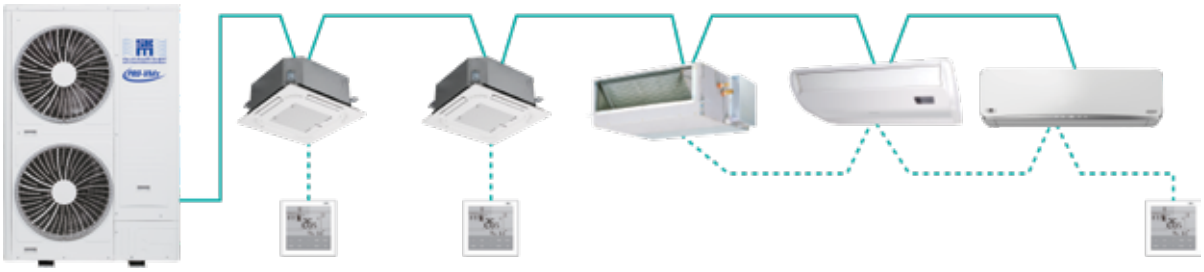


Realizing test run through the DIP-switch at the outdoor unit side.

- 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.

Wiring System Without Polarity

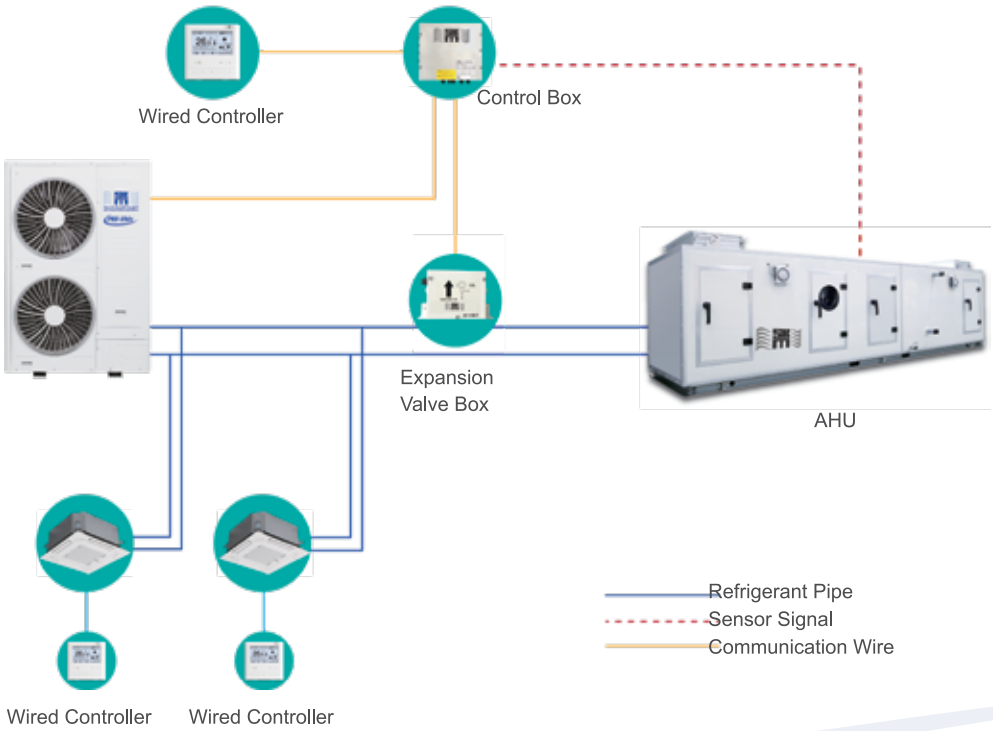
SKM adopts no polarity twisted pair lines to make incorrect connections. In addition, saving time for installation.



AHU-Kit Function

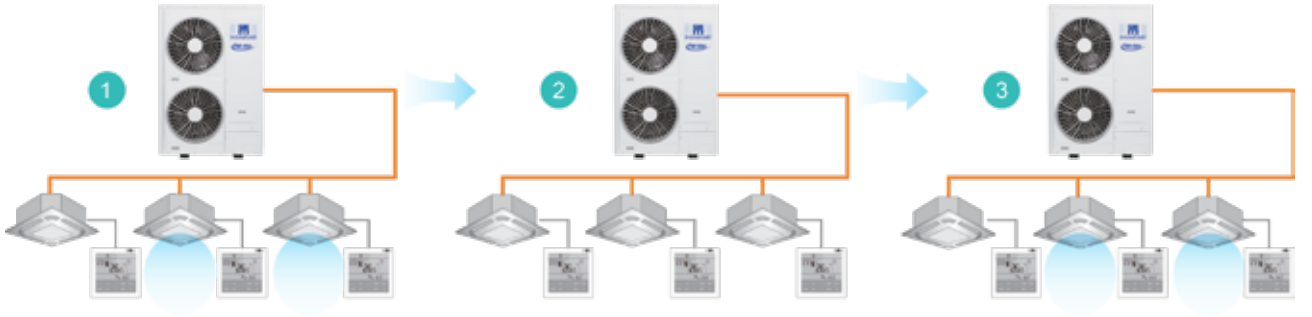
Connect AHU with AHU-Kit, provide high quality air for users.

- When it is online, the connection can only be made by dragging and dropping, and the ratio must be 100%.
- The temperature control of return air and air outlet air can be satisfied and can be set by function selection.



Automatic Restart After Power Failure

The system will automatically save the setting memory when the power off occurs for a long time. The system will restart automatically when the power is restored (or set to manual start). The set points before the power failure will not be erased but will be stored allowing the setting to take affect eliminating the need to re-set all the procedures which is more intelligent and cost effective.



Normal operation before power off

System (with memory storage) stoping running after power off,

Back to the original state when power reset

Intelligent Unit Operation and Control

Automatic Addressing

The system automatically allocates the address to the indoor units, which is suitable for the large system with multiple indoor units, without manual dialing.

Access Control

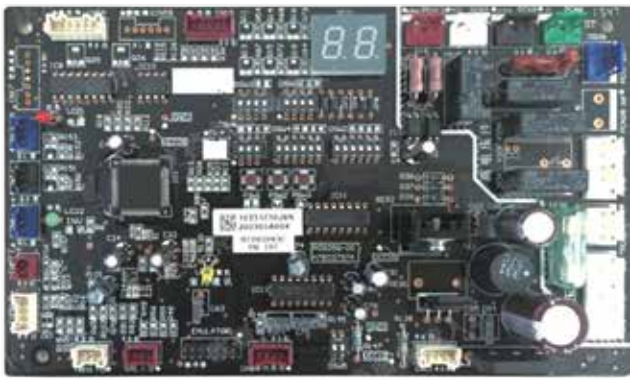
The function setting of room card and access control can achieve the linked control for hotel room management or smart home system. When the key card inserted, the air conditioner starts to work and executes the memorized mode which can avoid waste of operation.

Fire Control Function

The Indoor unit function interface can be linked with the building's fire protection system. When a fire alarm beeps, the system will automatically shut down to ensure safety.

Fault Parameters Display

The system automatically stores and displays the parameters of different diagnostics. By adjusting the main control panel keys of the outdoor unit's, four 7-segment high-brightness digital display tubes can show the real-time fault parameters which is convenient for after sales service, troubleshooting and maintenance.



Outdoor Unit Specifications

Model(HP)			3	4	5	5
Model			SK-HPH028DXH1S	SK-HPH034DXH1S	SK-HPH043DXH1S	SK-HPH043DXH1YR
Power Supply		-	AC 220~240V 1Φ 50Hz			AC 380~415V 3Φ 50Hz
Cooling Operation	Nominal Capacity	kBtu/h	27.3	34.1	42.7	42.7
		kW	8.0	10.0	12.5	12.5
	Power Consumption	kW	1.93	2.34	2.98	3.81
	EER	-	4.15	4.27	4.19	3.28
Heating Operation	Nominal Capacity	kBtu/h	32.4	38.2	47.8	47.8
		kW	9.5	11.2	14.0	14.0
	Power Consumption	kW	2.37	3.01	4.15	3.68
	COP	-	4.01	3.72	3.37	3.80
Air Flow Rate		m³/min	46.5	69.0	78.0	75.0
Out Dimension(H×W×D)		mm	800×950×370	800×950×370	800×950×370	800×950×370
Packing Dimension(H×W×D)		mm	930×1025×460	930×1025×460	930×1025×460	930×1025×460
Net Weight		kg	65	73	78	84
Gross Weight		kg	72	81	86	96
Refrigerant Piping	Liquid Line	mm(in.)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)
	Gas Line	mm(in.)	Φ15.88(5/8)	Φ15.88(5/8)	Φ15.88(5/8)	Φ15.88(5/8)
Max. number of connectable IDU		-	5	6	8	8
Sound Pressure Level (Cooling/Heating)		dB(A)	50/52	53/55	54/57	55/57
Operation Range	Cooling	℃ DB	-5~46			
	Heating	℃ WB	-15~15.5			-15~15.5
Branch Pipe		-	HSB-II0150			
Compressor Type		-	Rotary			Scroll

Notes:

1- Rated cooling capacity and rated heating capacity are 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

Outdoor Unit Specifications

Model(HP)			4	5	6	5	6
Model			SK-HPH038DXH1S	SK-HPH048DXH1S	SK-HPH054DXH1S	SK-HPH048DXH1YR	SK-HPH054DXH1YR
Power Supply		-	AC 220~240V 1Φ 50Hz			AC 380~415V 3Φ 50Hz	
Cooling Operation	Nominal Capacity	kBtu/h	38.2	47.8	52.9	47.8	52.9
		kW	11.2	14.0	15.5	14.0	15.5
	Power Consumption	kW	2.60	3.46	4.21	3.92	4.44
	EER	-	4.31	4.05	3.68	3.57	3.49
Heating Operation	Nominal Capacity	kBtu/h	42.7	54.6	61.4	54.6	61.4
		kW	12.5	16.0	18.0	16.0	18.0
	Power Consumption	kW	2.78	3.71	4.47	4.03	4.74
	COP	-	4.50	4.31	4.03	3.97	3.80
Air Flow Rate		m^3/min	90.0	90.0	100.0	90.0	100.0
Out Dimension(H×W×D)		mm	1380×950×370	1380×950×370	1380×950×370	1380×950×370	1380×950×370
Packing Dimension(H×W×D)		mm	1520×1025×460	1520×1025×460	1520×1025×460	1520×1025×460	1520×1025×460
Net Weight		kg	93	95	97	103	103
Gross Weight		kg	111	111	111	118	118
Refrigerant Piping	Liquid Line	mm(in.)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)
	Gas Line	mm(in.)	Φ15.88(5/8)	Φ15.88(5/8)	Φ15.88(5/8)	Φ15.88(5/8)	Φ15.88(5/8)
Max. number of connectable IDU		-	9	11	11	11	11
Sound Pressure Level (Cooling/Heating)		dB(A)	50/52	52/54	53/55	48/50	50/52
Operation Range	Cooling	℃ DB	-5~46				
	Heating	℃ WB	-20~15.5				
Branch Pipe		-	HSB-II0150				
Compressor Type		-	Rotary			Scroll	

Notes:

1- Rated cooling capacity and rated heating capacity are 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

Outdoor Unit Specifications

Model(HP)			8	10	12
Model			SK-HPH076DXH1YR	SK-HPH096DXH1YR	SK-HPH114DXH1YR
Power Supply		-	AC 380~415V 3Φ 50Hz		
Cooling Operation	Nominal Capacity	kBtu/h	76.5	95.6	114.3
		kW	22.4	28.0	33.5
	Power Consumption	kW	6.36	7.80	10.60
	EER	-	3.52	3.59	3.16
Heating Operation	Nominal Capacity	kBtu/h	85.3	107.5	128
		kW	25.0	31.5	37.5
	Power Consumption	kW	5.81	7.00	10.11
	COP	-	4.30	4.50	3.71
Air Flow Rate		m^3/min	150.0	163.0	163.0
Out Dimension(H×W×D)		mm	1650×1100×390	1650×1100×390	1650×1100×390
Packing Dimension(H×W×D)		mm	1748×1151×500	1748×1151×500	1748×1151×500
Net Weight		kg	160	170	170
Gross Weight		kg	179	194	194
Refrigerant Piping	Liquid Line	mm(in.)	Φ12.7(1/2)	Φ12.7(1/2)	Φ12.7(1/2)
	Gas Line	mm(in.)	Φ22.2(7/8)	Φ25.4(1/1)	Φ25.4(1/1)
Max. number of connectable IDU		-	15	17	19
Sound Pressure Level (Cooling/Heating)		dB(A)	58/60	59/61	59/61
Operation Range	Cooling	℃ DB	-5~46		
	Heating	℃ WB	-20~15.5		
Branch Pipe		-	HSB-II0020		
Compressor Type		-	Scroll		

Notes:

Rated cooling capacity and rated heating capacity are 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 6oC WB, pipe length: 7.5m, pipe height difference : 0m

SKM Indoor Unit Range

SKM 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	 NEW			■	■	■		■	■	■	■	■	■	■	■		
Mini 4-Way Cassette Type	 NEW	■	■	■	■	■	■	■									
Ceiling Ducted Type (High Static Pressure)			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Ceiling Ducted Type (Low Static Pressure)			■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Ceiling Ducted Type (AC Low-height)	 NEW	■	■	■	■	■	■	■	■	■							
Ceiling Ducted Type (DC Low-height)	 NEW	■	■	■	■	■	■	■	■	■							
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 accordingto 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		m^3/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:

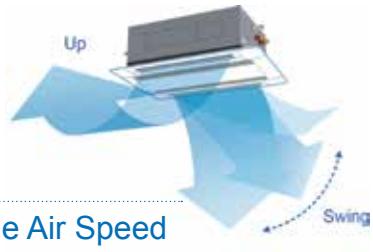
1. The nominal cooling capacity is based on the following conditions:
Indoor Air Inlet Temperature: 27° DB (80°F DB), 19.0° WB(66.2°F WB) Outdoor Air Inlet Temperature: 35° DB(95°F DB) Piping Length: 7.5 Meters Piping Lift: 0 Meter

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.

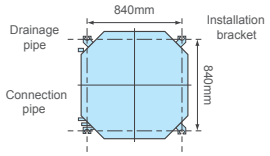
Indoor unit			2-Way Cassette Type										
Model Power Supply	AC1Φ 220V~240V 50Hz		SKS-C2 HP07HS00	SKS-C2 HP09HS00	SKS-C2 HP12HS00	SKS-C2 HP14HS00	SKS-C2 HP18HS00	SKS-C2 HP24HS00	SKS-C2 HP27HS00	SKS-C2 HP30HS00	SKS-C2 HP38HS00	SKS-C2 HP48HS00	SKS-C2 HP54HS00
Cooling Operation		kW	2.2	2.8	3.6	4.3	5.6	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		m^3/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 /978/786	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		m^3/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 /930/816/750	1,530/1,200/1098 /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		m^3	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110

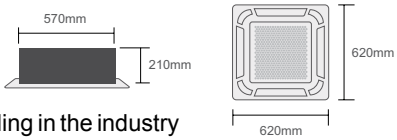
Notes:

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		m^3/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		m^3	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

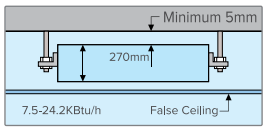
Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB),, 6°C WB(43°F WB)

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)														
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-HS 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)		m^3/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		m^3	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

*1

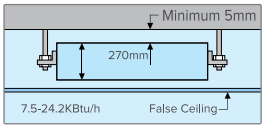
Notes:

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 *1
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)		m^3/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		m^3	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:

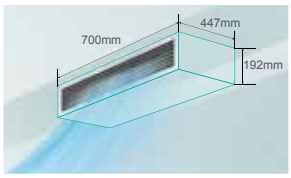
1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB)
Outdoor Air Inlet Temperature: 35°C DB(95°F DB), Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation 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

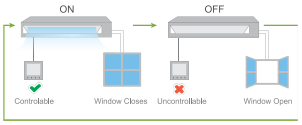
Ceiling Ducted Type
(AC Low-height)

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.

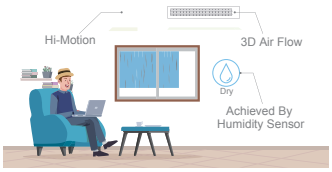
This function can be achieved by the wired controller: HSW-IA0010, HSW-IA0020.

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)		m^3/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		m^3	0.15	0.15	0.15	0.15	0.18	0.18	0.22	0.22	0.22

Notes:

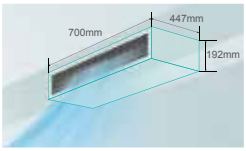
1.The nominal cooling capacity and heating capacity are based on the following conditions:
Cooling Operation Conditions
Indoor Air Inlet Temperature: 27°C DB(80°F DB), 19.0°C WB(66.2°F WB), Outdoor Air Inlet Temperature: 35°C DB(95°F DB)
Piping Length: 7.5 Meters Piping Lift: 0 Meter
Heating Operation 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)

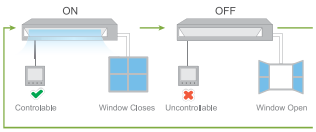
Installation Space-saving

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.



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		m^3/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		m^3	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

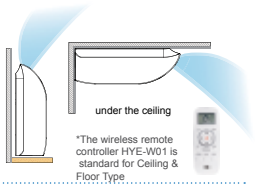
Heating Operation Conditions
Indoor Air Inlet Temperature: 20°C DB(68°F DB), Outdoor Air Inlet Temperature: 7°C DB(45°F DB), 6°C WB(43°F WB)

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.

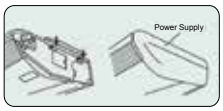


New Fashion Design Appearance and High Quality

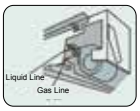
The fashionable design and streamline appearance gives a perfect choice for users.The integrative side panel makes the whole unit more concordant.Huge air outlet with an integrative large louver realizes high air volume and low noise.

Convenient Installation and Maintenance

Advanced structure design that makes the unit installatioin,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	230
	W	mm	990	990	990	990	1,285	1,285	1,285	1,580
	D	mm	680	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
		kcalh	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
		kcalh	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)		m^3/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	315
	W	mm	960	960	960	960	960	1,120	1,120	1,120
	D	mm	230	230	230	230	230	230	230	230
Packing Volume		m^3	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.

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
- Holiday Setting
- Error Code Display
- Timer
- Fan speed/Swing Louver
- Weekly Timer
- Error History Display
- Air Filter Cleaning Reminding
- Temperature Setting
- Check
- Lock
- 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

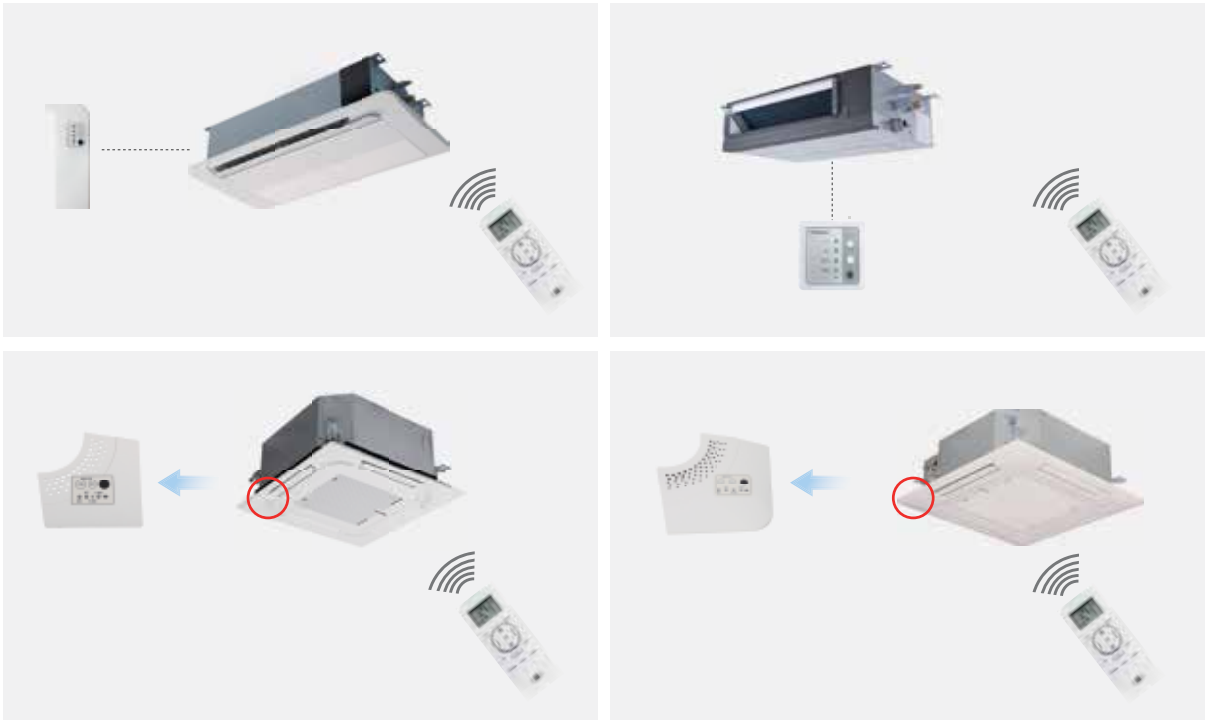
HSW-IA0060

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 Unit Power OFF Reminder
- Indoor Units Auto Login in
- Error Reminder

HSC-IE0010

Main Functions

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

HSC-ID0010

Smooth Appearance

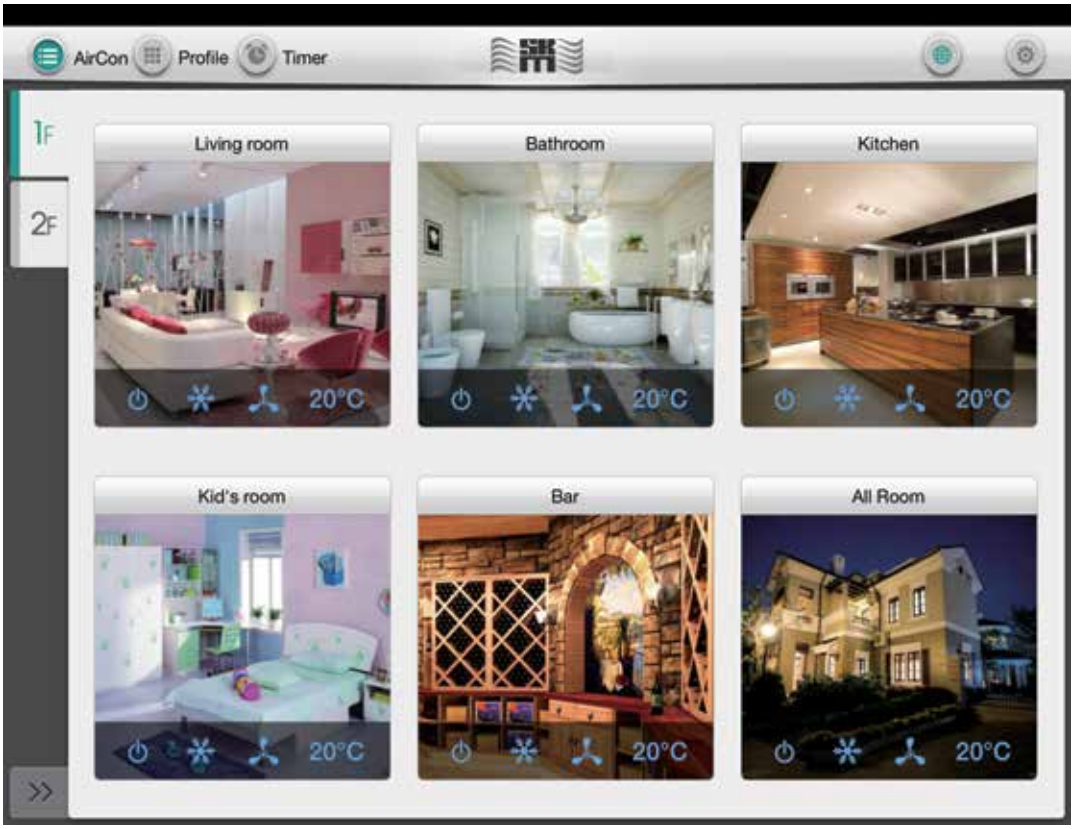
Easy Installation

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

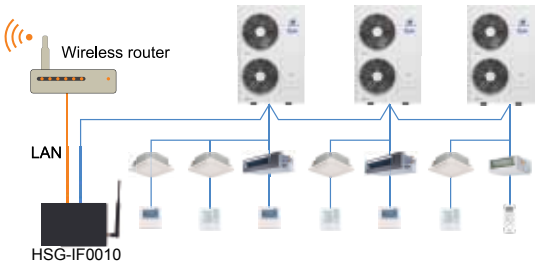
Remarks: √ Standard ○ Optional × Incompatible

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

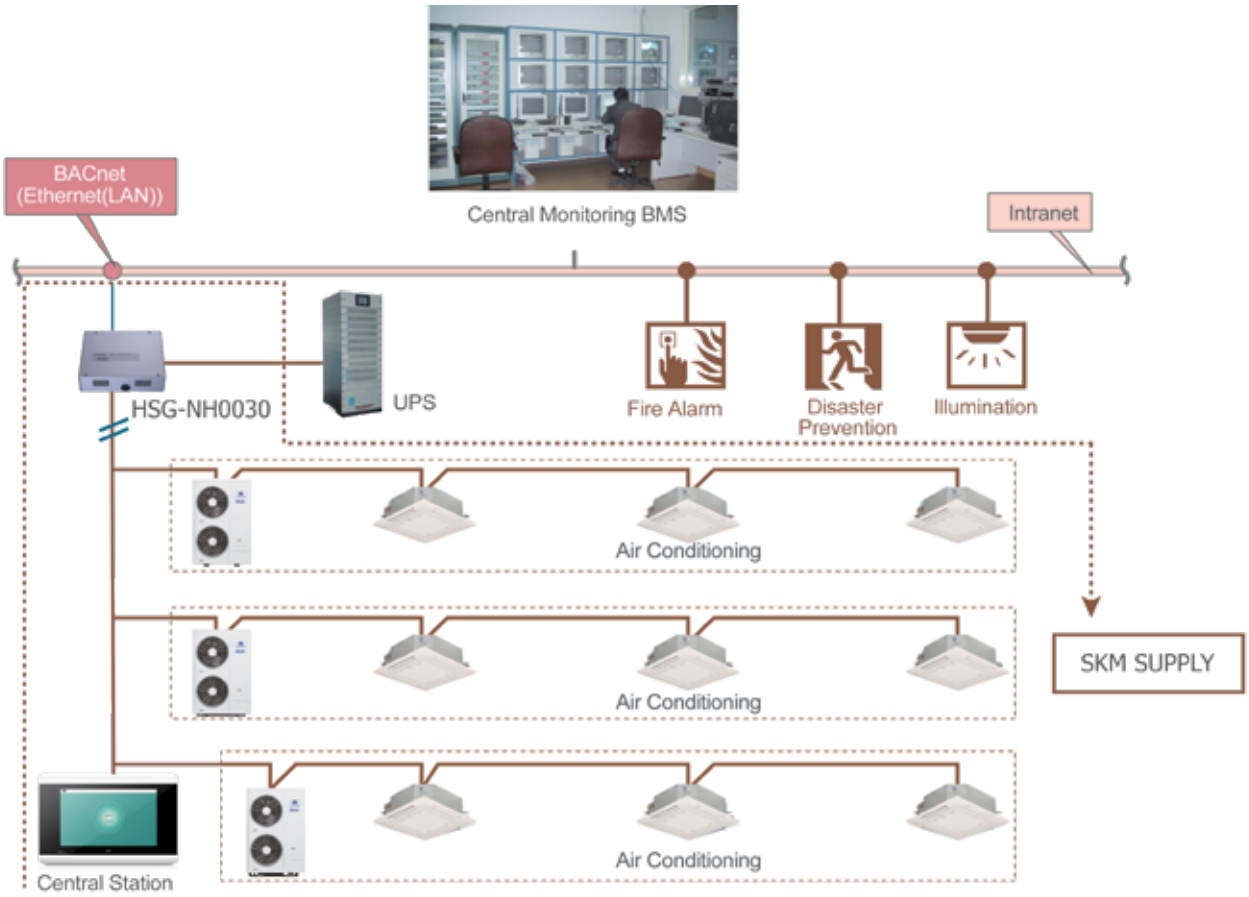
Model name	HSG-IF0010	Operating temperature	0°C ~ 40°C
Input voltage	AC 110~240V 50Hz	Maximum operating current	10mA (220V)

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.

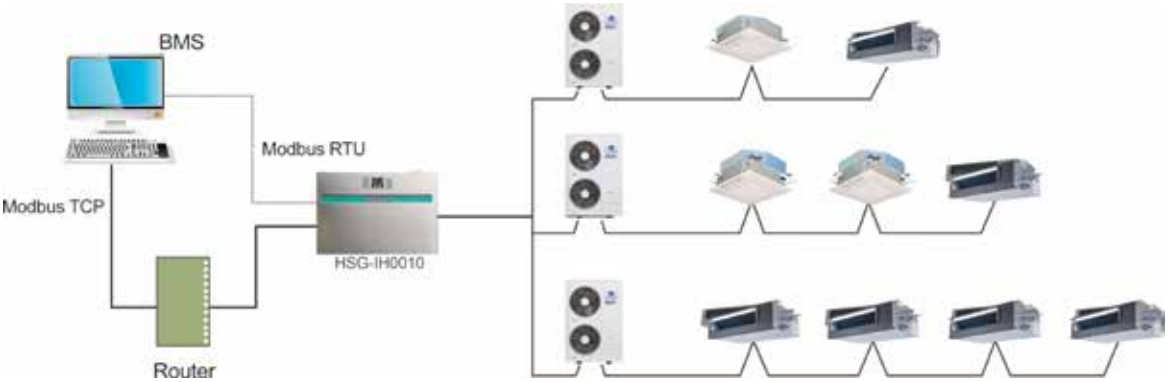
Real-time operation status monitoring on request.
Operation commands from monitoring center

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 / Item	HSG-NH0030	HSG-IH0010
		
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

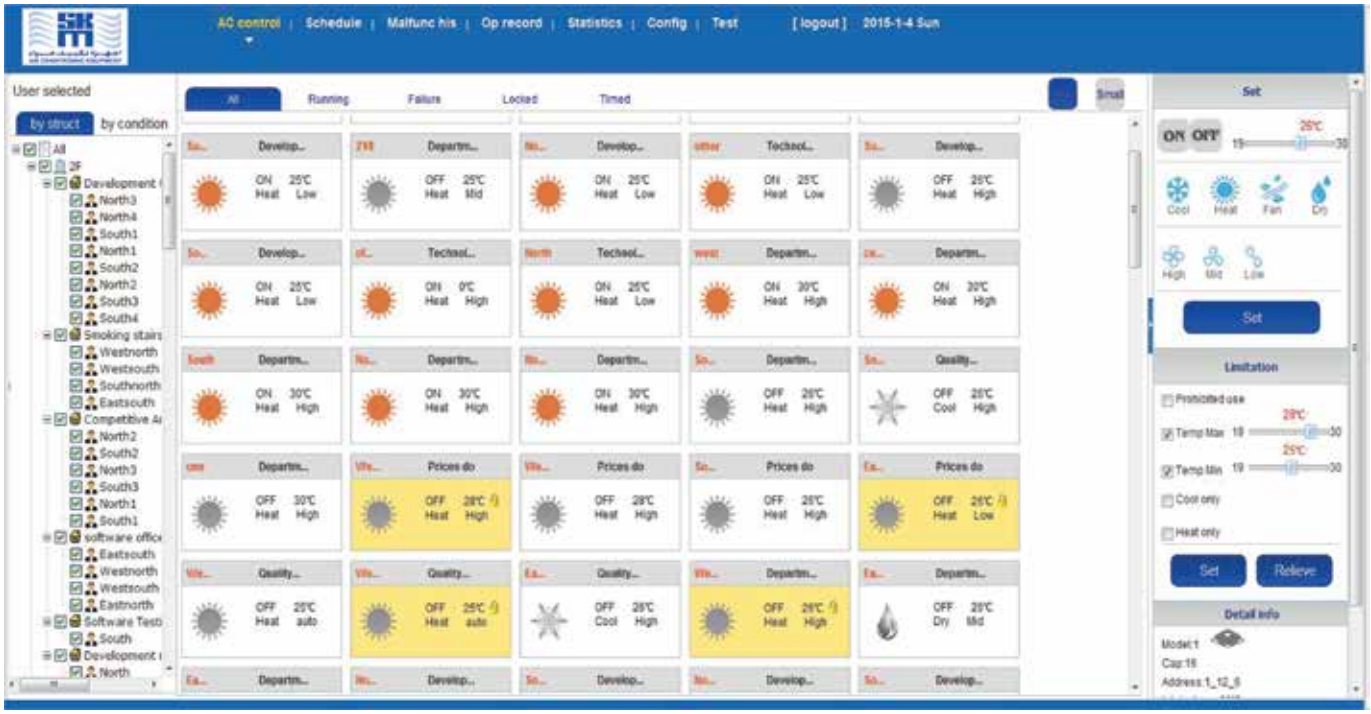
Building Management System with Billing System Feature

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



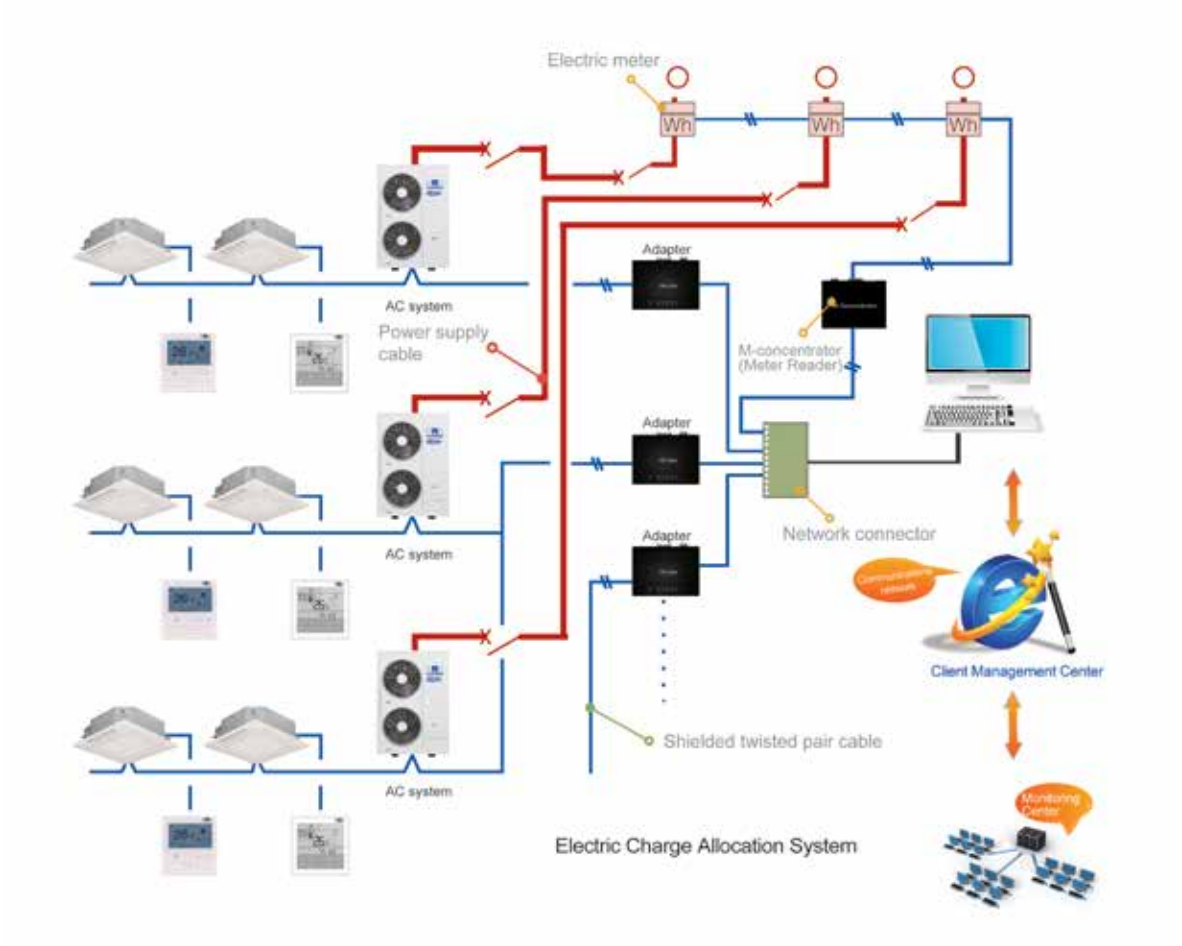
All the indoor units and outdoor units connected with one adapter comprise one communication BUS system.
Max.128 indoor units can be connected to an adapter
Max.32 adapters can be controlled by one computer.
Max.4096 indoor units are under control.

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 support iEM3150 or iEm3350, which is supplied by Schneider Electric



SKM System Specifications

	Model Name	Power Supply	Dimension(mm)	Charging Function
Adapter (SKM)	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

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AIR CONDITIONING EQUIPMENT

CONTACT US

HEAD OFFICE

P.O Box: 6004, Sharjah,
United Arab Emirates

Tel: +971 6 514 3333
Fax: +971 6 514 3300

Email: sales@skmaircon.com
Email: info@skmaircon.com

Spare Parts Division
spareparts.skm@skmaircon.com

Service Center
aftersales@skmaircon.com

For SKM Regional Offices & Distributors
visit: www.skmaircon.com

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