

PRO-VMs

SKM VRF Air Conditioners



50/60Hz

R-410A
REFRIGERANT



Product Range: 4-10HP



CE

Why SKM VRF?

Because It....

- ▶ Adopts newest technology.
- ▶ Owns comprehensive 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.





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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

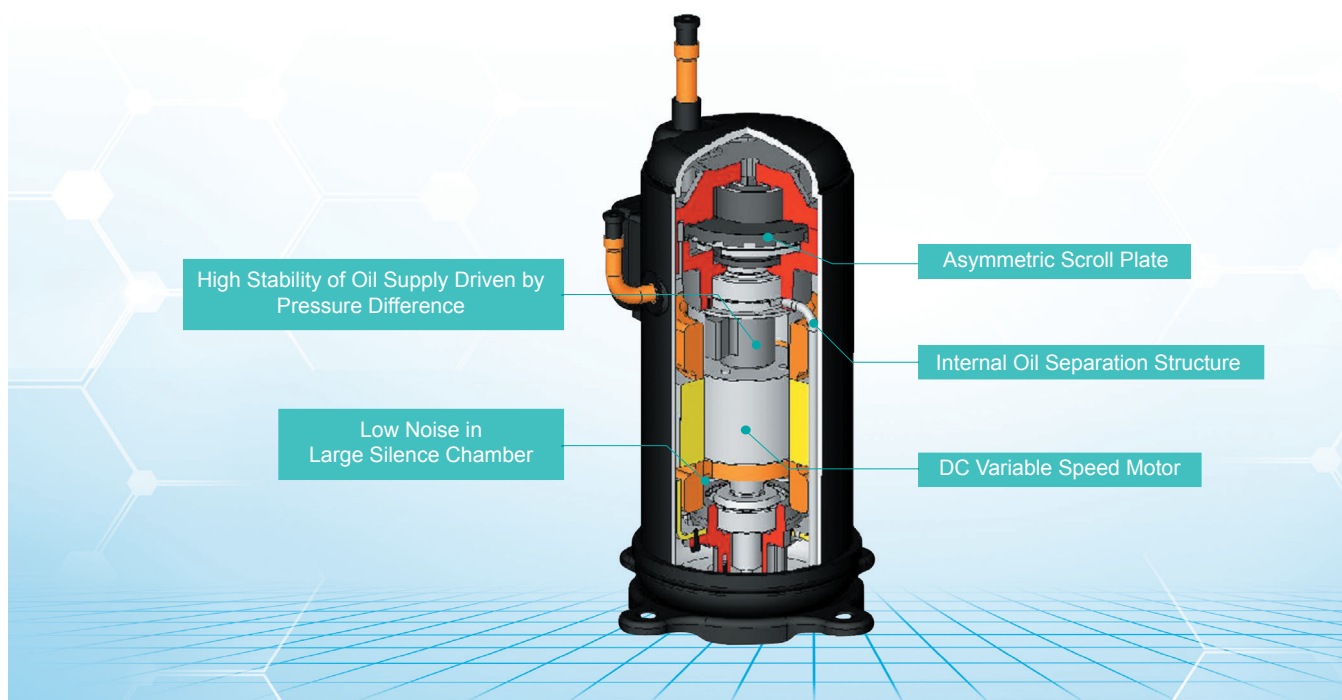


You name it.... We cool it

Advanced Core Technology

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.

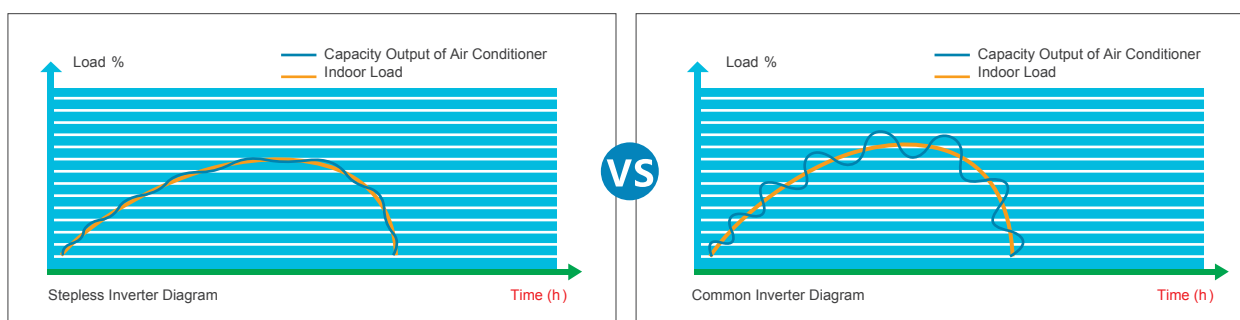


DC Inverter Technology of Compressor

The industry's leading stepless inverter linear control technology and the latest 180° sine wave DC inverter driven technology are adopted. SKM PRO-VMs Series can adjust the speed of the machine freely and smoothly according to the system capacity and indoor actual load. The operation of the complete machine is accurate and stable, bringing higher comfort level for the space.

Stepless Inverter Technology

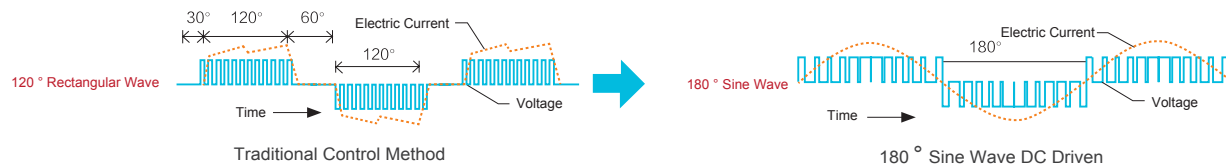
The frequency range of compressor is 10-115Hz; the adjustment range of inverter is 20-230Hz; the operation speed can be adjusted continuously and freely based on changes of system capacity with higher accuracy; combining with adaptive control technology, capacity output is adjusted automatically according to the actual air conditioning load, ensuring to achieve a smoother curve to offer greater comfort level.





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.

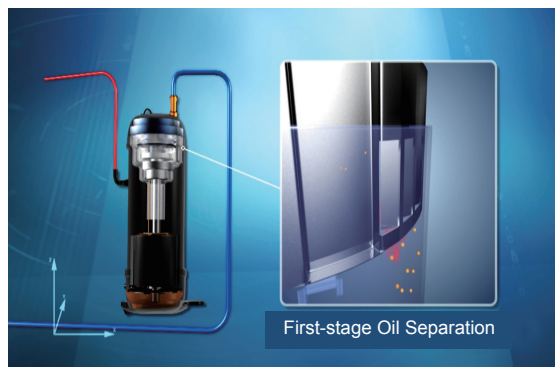


Multiple Oil Circuit Protection

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.

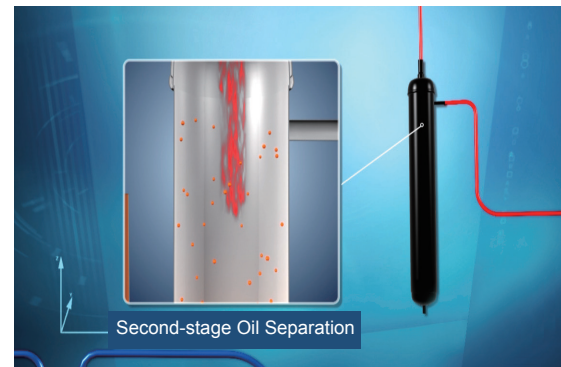
The First-stage Oil Separation

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.



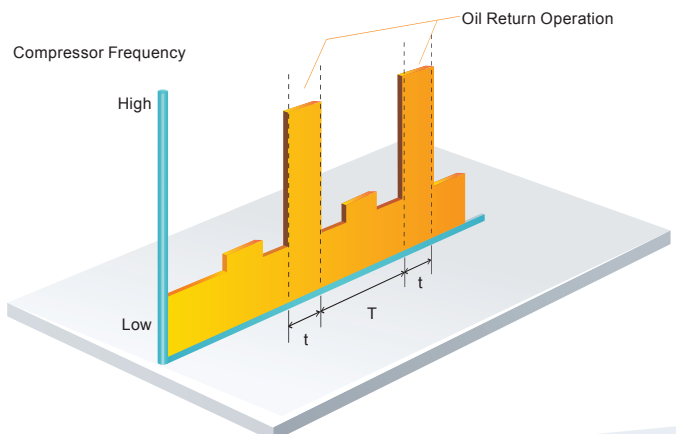
The Second-stage Oil Separation

A 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 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.

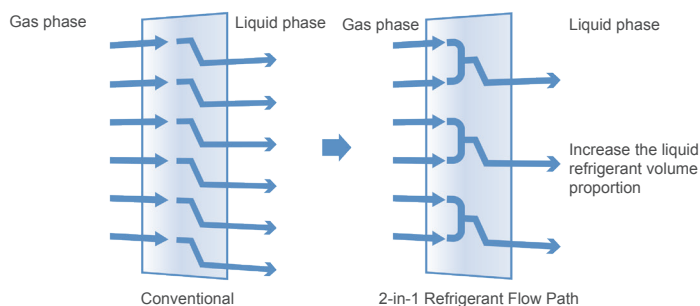


New High-efficiency Heat Exchanger

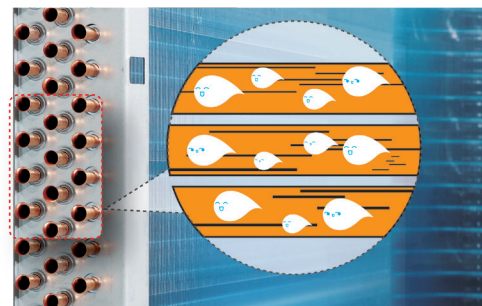
SKM PRO-VMs Series adopts high-efficiency inner grooved copper pipe with diameter of $\phi 7$ and the latest high-efficiency corrugated fins, improving heat transfer efficiency substantially. The defrost cycle is extended to enhance the heating performance. With strong salt fog resistance, service life of heat exchanger is prolonged.

Optimized Refrigerant Circuit

The heat-exchange efficiency is substantially increased due to the specially designed refrigerant flow structure.



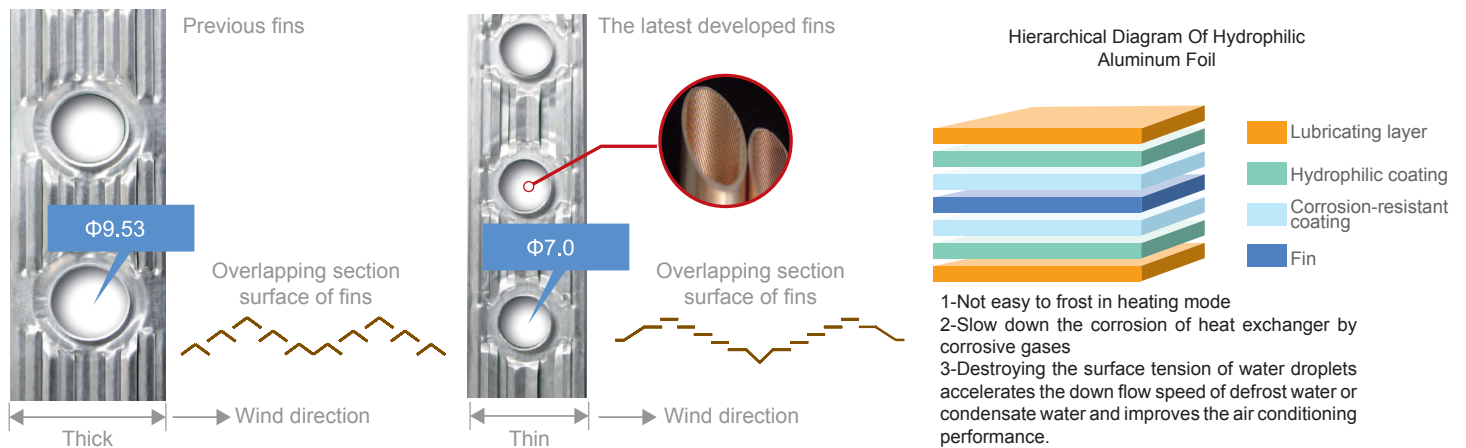
Common refrigerant circuit



Optimized refrigerant circuit

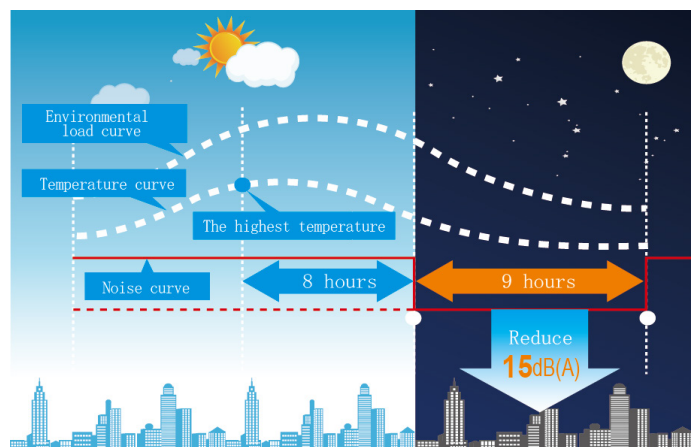
High-efficiency Inner Grooved Tube and Stepped Fins

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



Night Silent 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.





DC Variable Speed Fan Motor

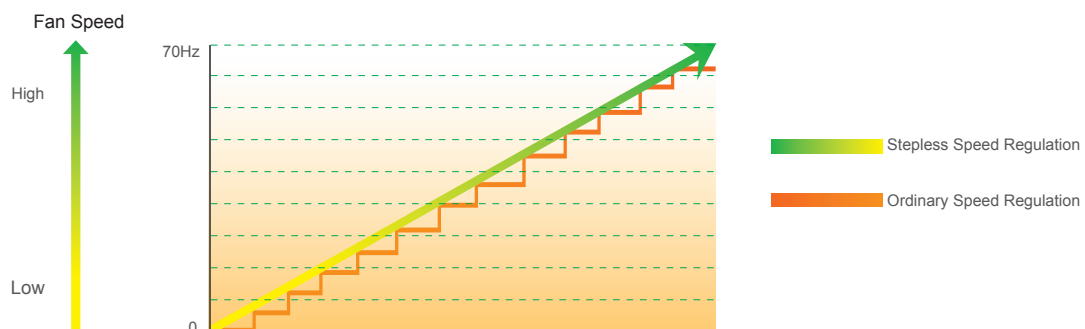
DC variable speed fan motor is used on outdoor unit, increasing motor efficiency by 40% compared to AC motor, and significantly reducing input power. Stepless speed regulation can be achieved for fan of the outdoor unit according to the changes of ambient temperature.

High-efficiency Axial Fan

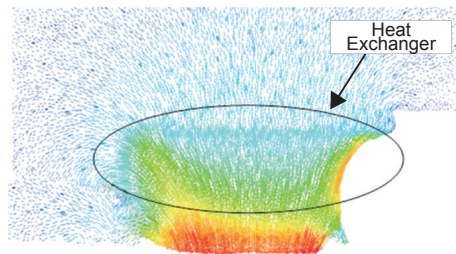


Stepless Frequency Conversion Speed Control of Fan

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.



Design for New Wind Outlet Grille, With Small Resistance and Far Air Supply



New Streamline Spiral Wind Outlet Grille

The new wind outlet grille adopts streamline spiral design, optimizes air flow, achieving larger air flow field, and longer wind supply distance, and ensuring heat transfer performance of the system to be more superior, stable and reliable.

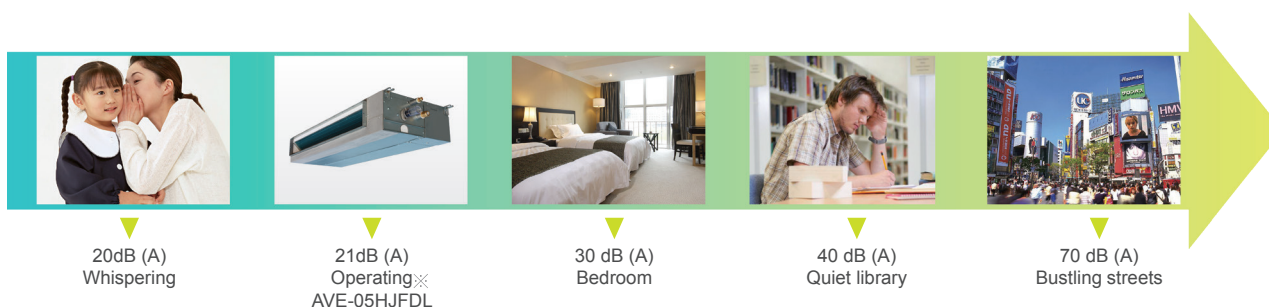
Low Indoor Unit Operation Sound Level

Superb Noise Reduction Technology

SKM PRO-VMs Series intends to create high-quality quiet environment — optimize design of components of the indoor unit and outdoor unit to greatly reduce noise; at the same time, full soundproofing noise test room is used to decrease noise of high and low frequency and abnormal sound, so as to create a unique quiet environment.

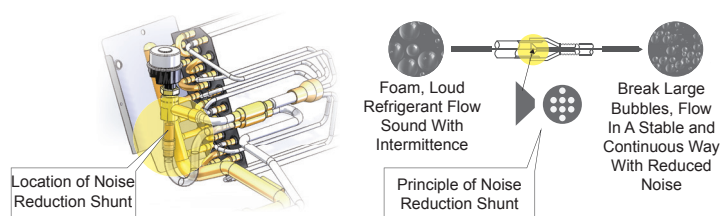
Indoor Unit Operates With Noise Reduction, and Multiple Noise Reduction Technology are Adopted to Ensure A Quiet Environment

The design of commercial air conditioning indoor unit is based on the using places and structure features. SKM adopts many noise reduction technologies and installation methods, which can be able to reduce the indoor unit operating noise. The most quiet and comfortable air conditioning environment is ensured by researching the noise control methods of fan motor, fan blade and air duct layout.



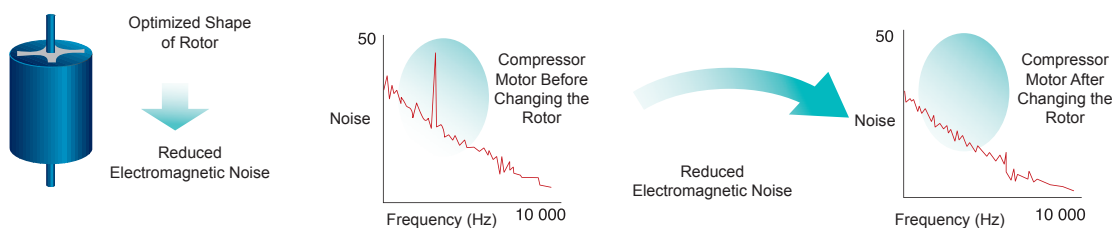
New Noise Reduction Shunt

The noise reduction shunt with new design can break large bubbles in the refrigerant flow, so as to effectively reduce the sound of refrigerant flow, making refrigerant flow stable, continuous and quiet.



Low Noise Design for Outdoor Unit, Ensuring Quietness

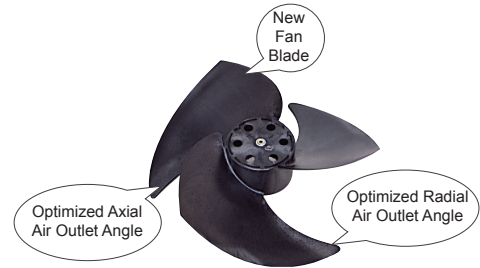
The Electromagnetic Noise of the Compressor is Reduced





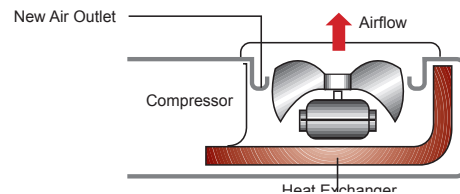
New Axial Fan, Higher Efficiency and Less Noise

New efficient axial fan which can reduce the turbulence flow around the fan is applied, and special materials are used, so as to provide good absorption of vibration and noise, significantly reducing the “buzzing” sound during running.



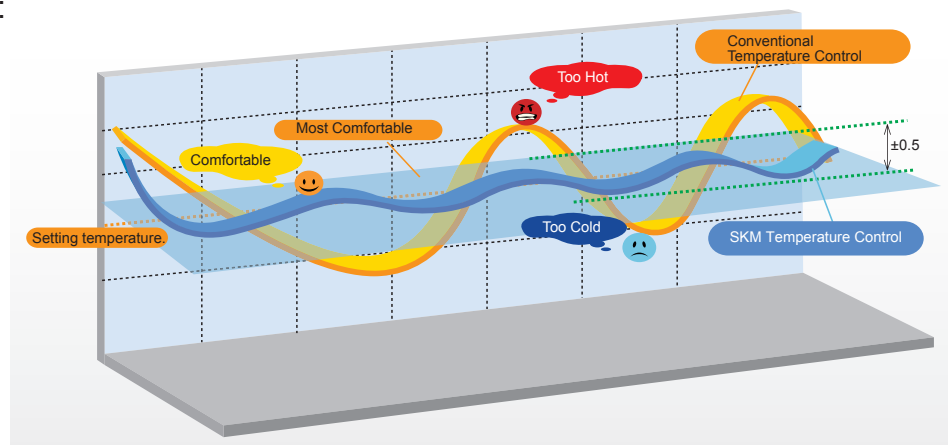
Application of New Air Outlet, Significantly Reduces Noise Arising From Air Friction

New resin air outlet is chosen to reduce air frictional resistance, ensuring smooth air flow and achieving low noise and high efficiency.



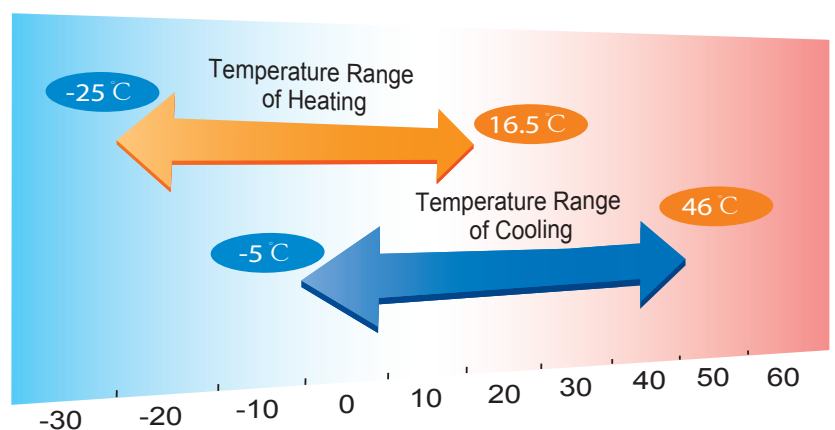
Precisely judge indoor temperature:

SKM PRO-VMs Series sets temperature sensors on air outlet/ inlet, gas / liquid pipe of indoor units and remote controller, and adopts microcomputer control 2000-step high precision electronic expansion valve to adjust refrigerant flow, which can remain the room temperature within 0.5°C of setting temperature and satisfy the indoor comfort requirement.



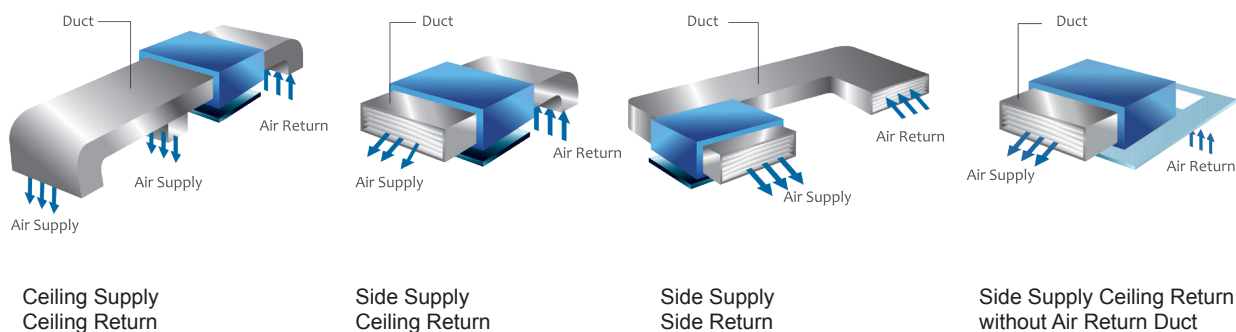
Wide Operating Range Meets Greater Demand

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 55°C ambient in cooling mode.



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.



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.

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 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, FTIR, or X-ray fluorescence



Multiple Protections Ensuring Safer and More Stable Operation

Compressor Protection

- Compressor suction
- Exhaustion pressure protection
- Compression ratio protection
- Exhausting temperature protection
- Oil return protection

System Protection

- Ventilator pressure protection
- Four-way valve protection
- Indoor and outdoor temperature protection
- Subcooling protection

Inverter Protection

- Inverter temperature protection
- Voltage protection

Electric Protection

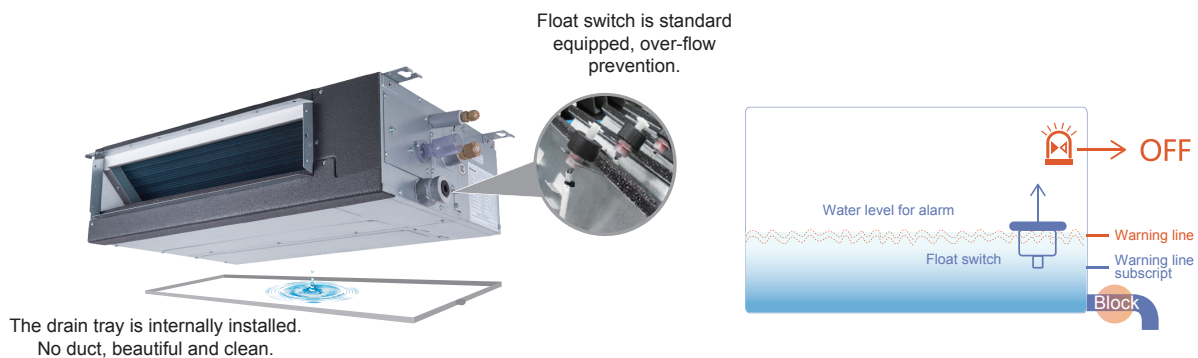
- Voltage phase failure
- Current protection
- Motor protection
- protecting from Lightning

Reliable Electrical Box Design

Electrical box is designed with a unique labyrinth type, which can easily deal with rainstorms, typhoons and other severe weather. Even if there is heavy rainfall, it can be ensured no water inside, making electrical equipment safe secure and reliable considering middle east weather features.

Float Switch Design, Ensure Decoration Safety

The new float switch can monitor the water level of the water pan in the indoor unit at any time. When the problems like blocked drainage, pump failure, insufficient slope and air block occur, the new float switch can quickly and automatically issue warning sign and stop the machine. As a result, the home life is more secure and the system is more reliable.



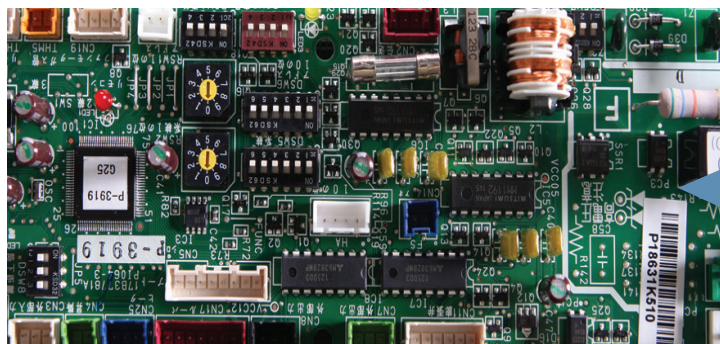
Intelligent Detection Function

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.



PCB Protection

To create high-quality electronic control board through rigorous testing: electronic control board runs for 1000 hours under the temperature of 60°C, and relative humidity of 95%. Outstanding performance of core components is ensured through rigorous testing.



Epoxy resin composite baseplate: printed on both sides and SMT welding; high strength, strong weather resistance, good flame resistance and high reliability; compact structure with small volume.

Lightning Strike Prevention

With the lightning strike prevention module, the system can operate more stable and reliable.



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



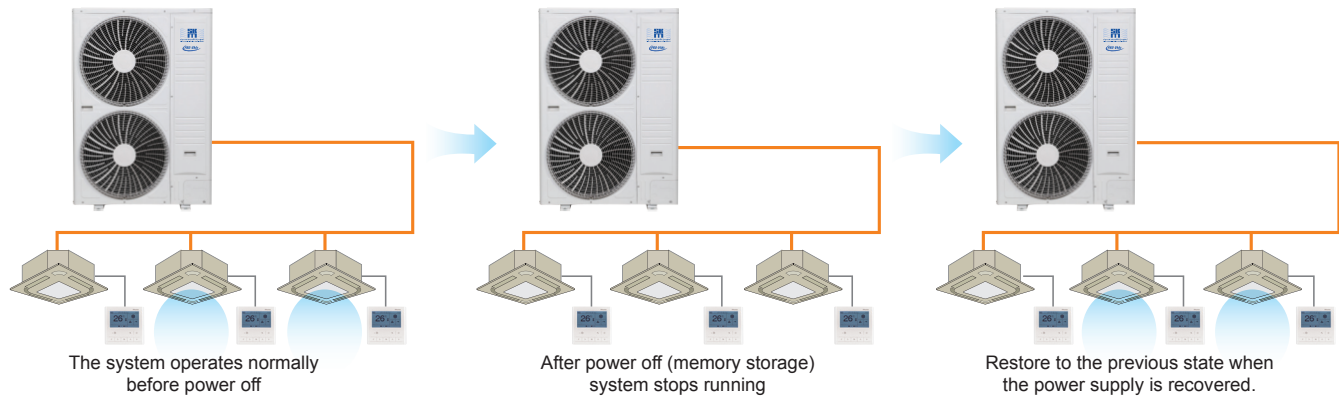
Realizing test run through the DIP-switch at the outdoor unit side.

- 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.



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.

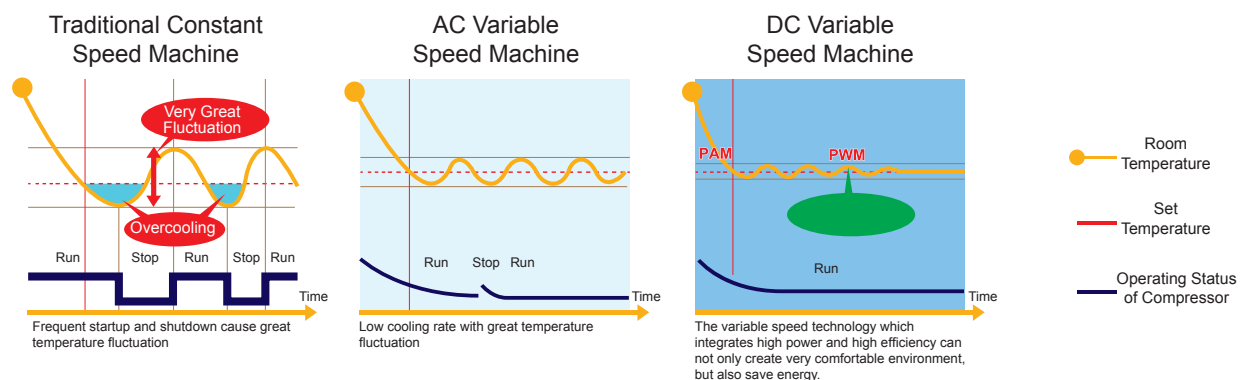


SKM PRO-VMs Series

SKM PRO-VMs Series is designed and developed for high-end residential and commercial space.

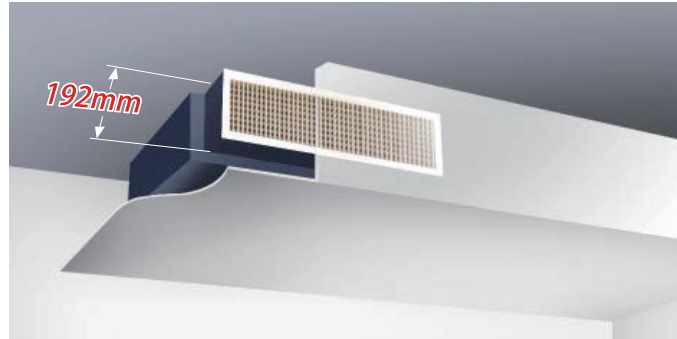
- DC inverter-driven compressor
- Low noise technologies
- Compact and lightweight design
- Long refrigerant pipe and drop

Full Dc Inverter Technology, Combined With Adaptive Adjustment Technology, Rapidly Responding To Load Changes Of Air Conditioners



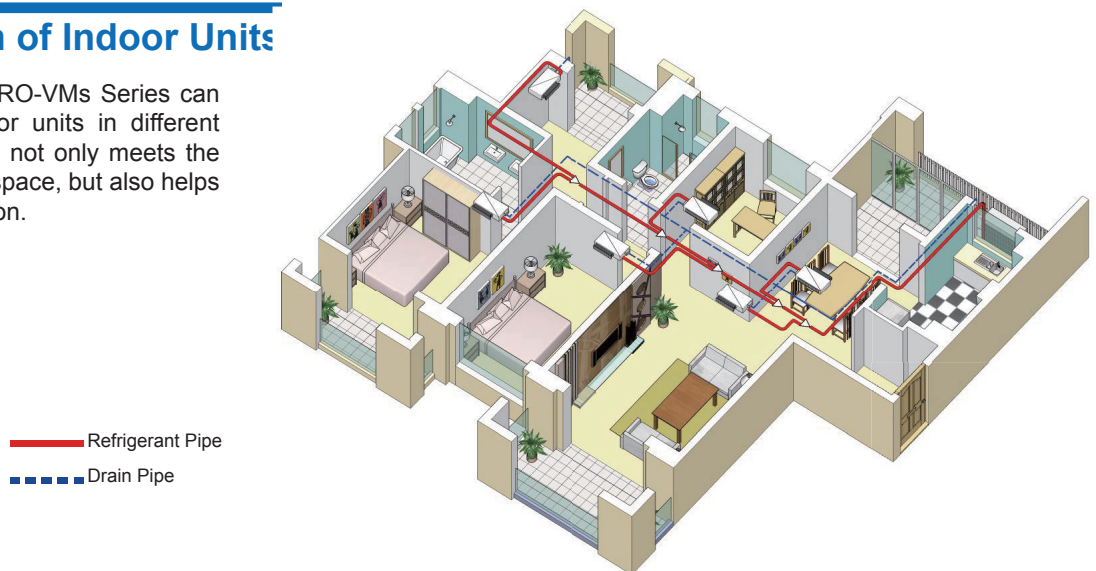
Slim Design

The compact outdoor unit can be flexibly placed according to outdoor location. Low-height ducted type can be easily installed inside the low-height (192mm) residential ceiling.



Free Combination of Indoor Units

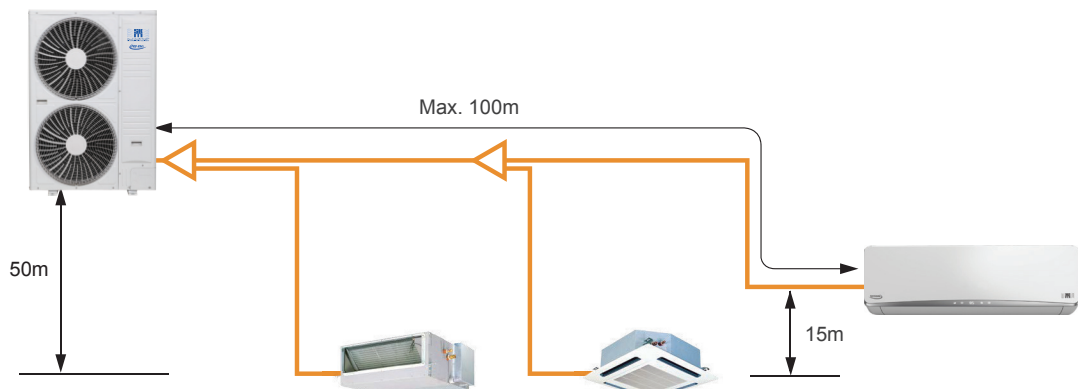
One outdoor unit of SKM PRO-VMs Series can connect maximum 10 indoor units in different types. The free combination not only meets the air condition needs of large space, but also helps to match the indoor decoration.



Long Piping Design

Long refrigerant piping design makes project design and installation works more convenient.

- Total piping length can be 120m.
- Max. piping length is 100m.
- Max. height difference between outdoor and indoor units is 50m.
- Max. height difference between the highest and the lowest indoor units is 15m.





Outdoor Unit Specifications



PRO-VMs Series			HP	4	5	6	8	10
Model				SK-HPH038DXH3S	SK-HPH048DXH3S	SK-HPH054DXH3S	SK-HPH076DXH3YR	SK-HPH096DXH3YR
Power Supply				AC1 220-240V 50/60Hz			AC3 380-415V/50Hz	
Cooling T1 35°C	Capacity	Ton		3.2	4.0	4.4	6.4	8.0
	Capacity	kW		11.1	13.9	15.4	22.3	28.1
	Capacity	Btu/h		38000	47500	52500	76000	96000
	EER	(Btu/h)/W		12.8	12.0	11.6	12.2	11.6
	PI	kW		2.97	3.96	4.53	6.23	8.28
Cooling T3 46°C	Capacity	kW		9.7	12.2	13.5	16.7	18.2
	Capacity	Btu/h		33000	41500	46000	57000	62000
	EER	(Btu/h)/W		10.50	9.93	9.31	9.78	9.28
	PI	kW		3.14	4.18	4.94	5.83	6.68
Cooling T4 48°C	Capacity	kW		8.8	11.1	12.2	14.6	15.4
	Capacity	Btu/h		30200	37500	41500	49500	52500
	EER	(Btu/h)/W		10.3	9.7	9.0	9.2	9.0
	PI	kW		2.93	3.87	4.61	5.38	5.83
Heating	Capacity	kW		12.5	16	18	25	31.5
	Capacity	Btu/h		42700	54600	61400	85300	107500
	COP	(Btu/h)/W		14.4	13.6	12.9	13.6	13.0
	PI	kW		2.97	4.01	4.77	6.25	8.29
Compressor Quantity						1		
Condenser Fan Quantity						2		
Air Flow Rate			m³/h	5400	5400	6000	9780	9780
Outer Dimensions	HxWxD	mm		1380x950x370			1650x1100x390	
Packing Dimensions	HxWxD	mm		1520x1025x460			1748x1151x500	
Net Weight	Unit	kg		93	95	97	171	171
Gross Weight	Unit	kg		106	108	110	182	182
Cabinet Color				Ivory White				
Refrigerant Piping	Gas Line	mm		φ15.88	φ15.88	φ15.88	φ19.05	φ22.2
	Liquid Line	mm		φ9.53	φ9.53	φ9.53	φ9.53	φ12.7
Max. Connectable Indoor Units				9	9	9	10	10
Max. Piping Length			m	75	75	75	100	100
Height Difference	Between ODU&IDU	m		30	30	30	50(40)	50(40)
	Between IDUs	m		15	15	15	15	15
Sound Level	Sound Power	dB(A)		64	65	66	70	71
	Sound Pressure	dB(A)		50	51	52	54	55
Operation Range Cooling				-5°C~55°C				
Operation Range Heating				-20°C~16.5°C				

1. The cooling and heating performances are the values when combined with our specified indoor units (Piping length : 7.5 Meters, Piping lift : 0 Meter).

(1)Cooling Operation Conditions: Indoor Air Inlet Temperature 26.7°C DB/ 19.4°C WB, Outdoor Ambient Temperature 35°C DB.

(2)Cooling Operation Conditions: Indoor Air Inlet Temperature 29.0°C DB/ 19.0°C WB, Outdoor Ambient Temperature 46°C DB.

(3)Heating Operation Conditions: Indoor Air Inlet Temperature 20°C DB, Outdoor Ambient Temperature 7°C DB/ 6°C WB.

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																	
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/60Hz	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:

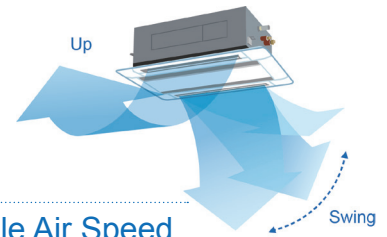
1.0m beneath the unit, 1.0m from Discharge Grille. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the 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		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 /978/786	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.

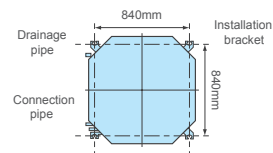
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.



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(60Hz)	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
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
Noise Level	Btu/h	9,900	13,600	17,100	21,500	24,200	27,300	30,700	34,100	42,700	54,600	61,400
	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	288	288	288	288	288
	W	mm	840	840	840	840	840	840	840	840	840	840
	D	mm	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	1,320/1,050/954/830/816/750	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	2,160/2,010/1,776/1,632/1,452/1,344	2,160/2,040/1,842/1,734/1,536/1,428
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
	W	mm	950	950	950	950	950	950	950	950	950	950
	D	mm	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.

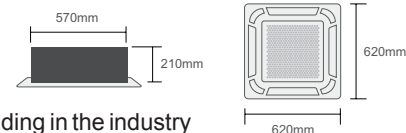
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.



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(60Hz)		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.

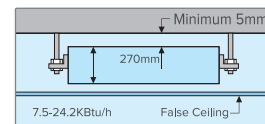
The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field.



Ceiling Ducted Type
(High Static Pressure)

Installation Space-saving

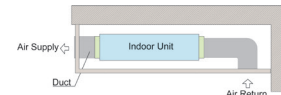
The height less than 270mm can be easily fit into the limited space in the false ceiling (7.5-24.2KBtu/h).



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)															
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	
	AC1Φ, 220V/60Hz	SKS-HSH P07HS200	SKS-HSH P09HS200	SKS-HSH P12HS200	SKS-HSH P14HS200	SKS-HSH P17HS200	SKS-HSH P18HS200	SKS-HSH P22HS200	SKS-HSH P24HS200	SKS-HSH P27HS200	SKS-HSH P30HS200	SKS-HSH P38HS200	SKS-HSH P48HS200	SKS-HSH P54HS200	SKS-HSH P76HR00	SKS-HSH HP96HR00	
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	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	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: AC3Φ, 380V/50Hz: SKS-HSHP76HY00; SKS-HSHP96HY00

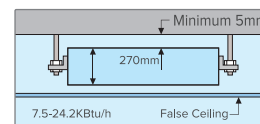
*2: AC3Φ, 380V/60Hz: SKS-HSHP76HR00; SKS-HSHP96HR00



Ceiling Ducted Type
(Low Static Pressure)

Installation Space-saving

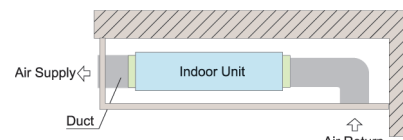
The height less than 270mm can be easily fit into the limited space in the false ceiling (7.5-24.2KBtu/h).



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, 220V/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
	AC1Φ, 220V/60Hz	SKS-LSH P07HS200	SKS-LSH P09HS200	SKS-LSH P12HS200	SKS-LSH P14HS200	SKS-LSH P17HS200	SKS-LSH P18HS200	SKS-LSH P22HS200	SKS-LSH P24HS200	SKS-LSH P27HS200	SKS-LSH P30HS200	SKS-LSH P38HS200	SKS-LSH P48HS200	SKS-LSH P54HS200	SKS-LSH P76HR00	SKS-LSH P96HR00	
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	*2
	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	
	H mm	270	270	270	270	270	270	270	270	350	350	350	350	350	470	470	
Outer Dimensions	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	
	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

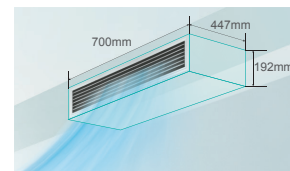
*2: AC3Φ, 380V/60Hz: SKS-HSHP76HR00; SKS-HSHP96HR00



Ceiling Ducted Type
(AC Low-height)

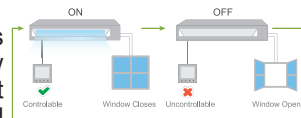
Installation Space-saving

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.



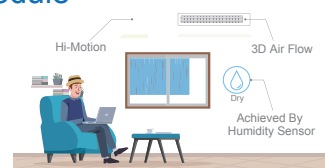
This function can be achieved by the wired controller: HSW-IA0010, HSW-IA0020.

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)		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)

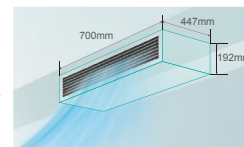
2. The sound pressure level is based on the following conditions: 1.5m beneath the unit. The above data was measured in an anechoic chamber so that the reflected sound should be taken into consideration in the field. When bottom air inlet is adopted, the sound pressure will increase according to factors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



Ceiling Ducted Type
(DC Low-height)

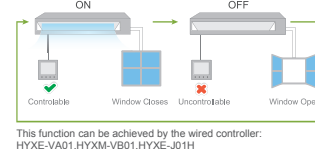
Installation Space-saving

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.



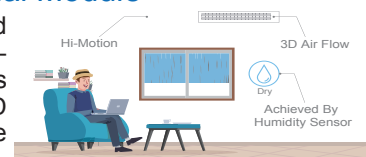
This function can be achieved by the wired controller: HYXE-VA01, HYXM-VB01, HYXE-J01H

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(60Hz)	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.

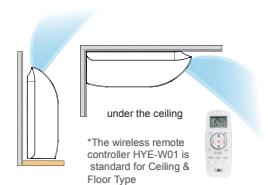
When bottom air inlet is adopted, the sound pressure will increase according to factors such as installation mode and the room structure.



Ceiling & Floor Type

Flexible Installation

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

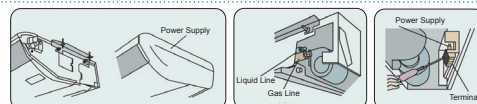


New Fashion Design Appearance and High Quality

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/60Hz	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)

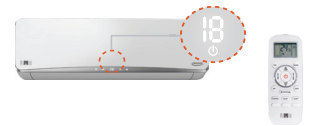
The sound pressure level is based on the following conditions:

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.



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-WSH07HS100	SKS-WSH09HS100	SKS-WSH12HS100	SKS-WSH14HS100	SKS-WSH17HS100	SKS-WSH18HS100	SKS-WSH22HS100	SKS-WSH24HS100
	AC1Φ220V/60Hz	SKS-WSH07HS200	SKS-WSH09HS200	SKS-WSH12HS200	SKS-WSH14HS200	SKS-WSH17HS200	SKS-WSH18HS200	SKS-WSH22HS200	SKS-WSH24HS200
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								
Fan motor	PG Fan motor								
Drain Pump	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

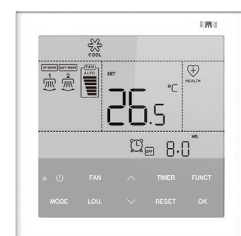
- ◆ Cooling/Heating/Dry/Fan/Auto
- ◆ Holiday Setting
- ◆ Error Code Display
- ◆ Timer
- ◆ Fan speed/Swing Louver
- ◆ Weekly Timer
- ◆ Error History Display
- ◆ Air Filter Cleaning Reminding
- ◆ Temperature Setting
- ◆ Check
- ◆ Lock
- ◆ Address Setting



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

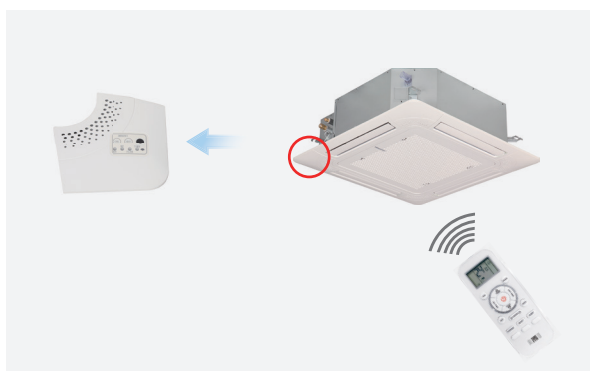
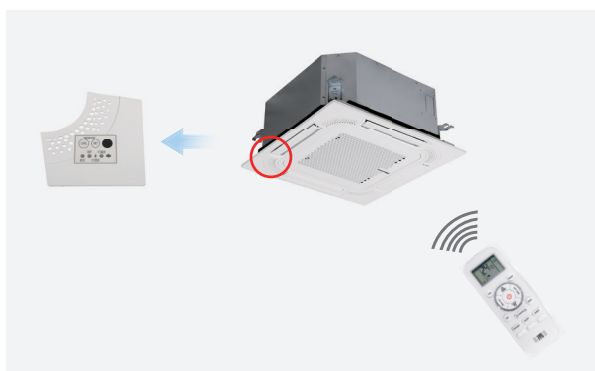
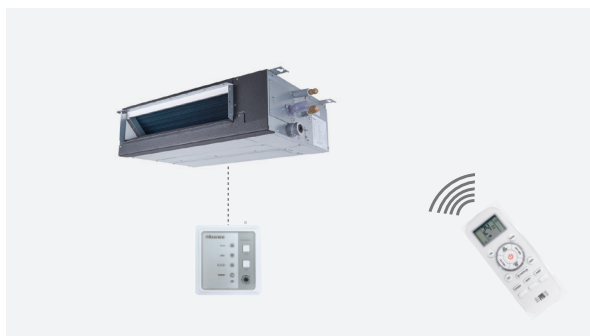
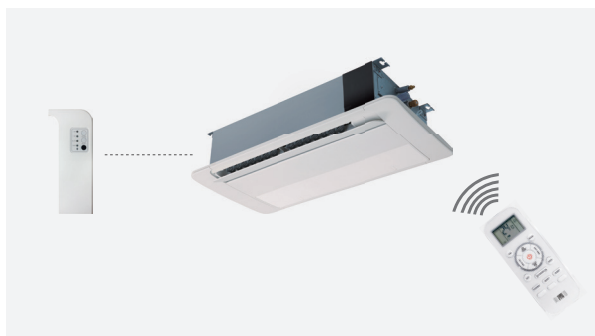
Main Functions

- ♦ 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

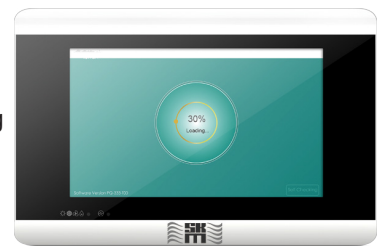
- ◆ Group Control(ON/OFF)
- ◆ Indoor Unit Auto Login in
- ◆ Indoor Unit Power OFF Reminder
- ◆ Error Reminder



HSC-IE0010

Main Functions

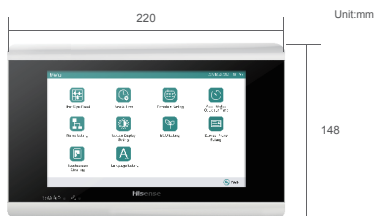
- ◆ Clock Setting
- ◆ Backlight
- ◆ Power Indicator
- ◆ Alarm History
- ◆ Time Display Mode Setting
- ◆ Holiday Setting
- ◆ Backlight Brightness
- ◆ Adjusting
- ◆ Service Hotline Setting
- ◆ Energy Saving Control Mode
- ◆ Setting Temperature Limitation
- ◆ Backlight Auto-off Time Adjusting
- ◆ Weekly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



HSC-ID0010

Smooth Appearance

Easy Installation



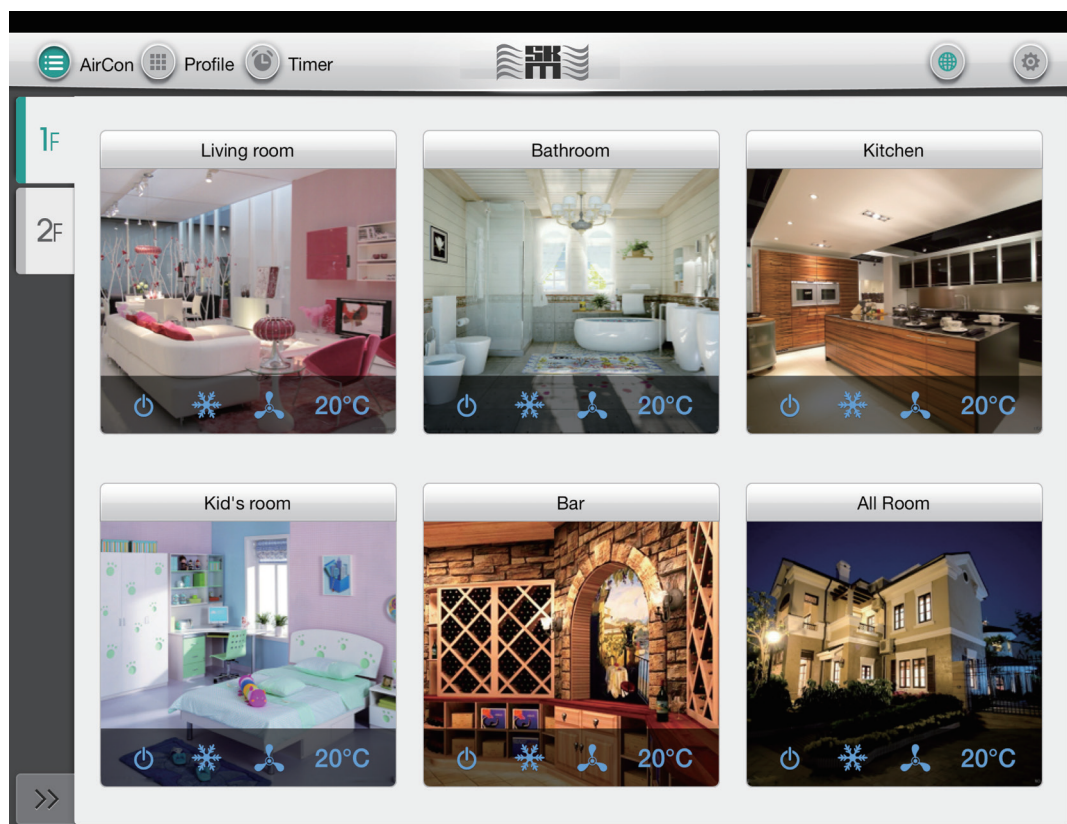
Type		Wired Controller				Wireless Controller
Model		HSW-IA0010	HSW-IA0020	HSW-IA0050	HSW-IA0060	HSR-IB0010
Picture						
Suit for indoor unit	Ceiling Duct Type	○	○	○	○	○
	4-Way Cassette	○	○	○	○	○
	Mini 4-Way Cassette	○	○	○	○	○
	1-Way Cassette	○	○	○	×	○
	2-Way Cassette	○	○	○	×	○
	Ceiling&Floor	○	○	○	○	✓
	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	Ceiling 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

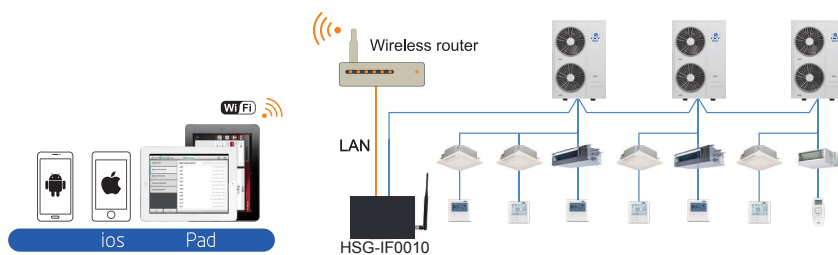


Centralized Controller



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

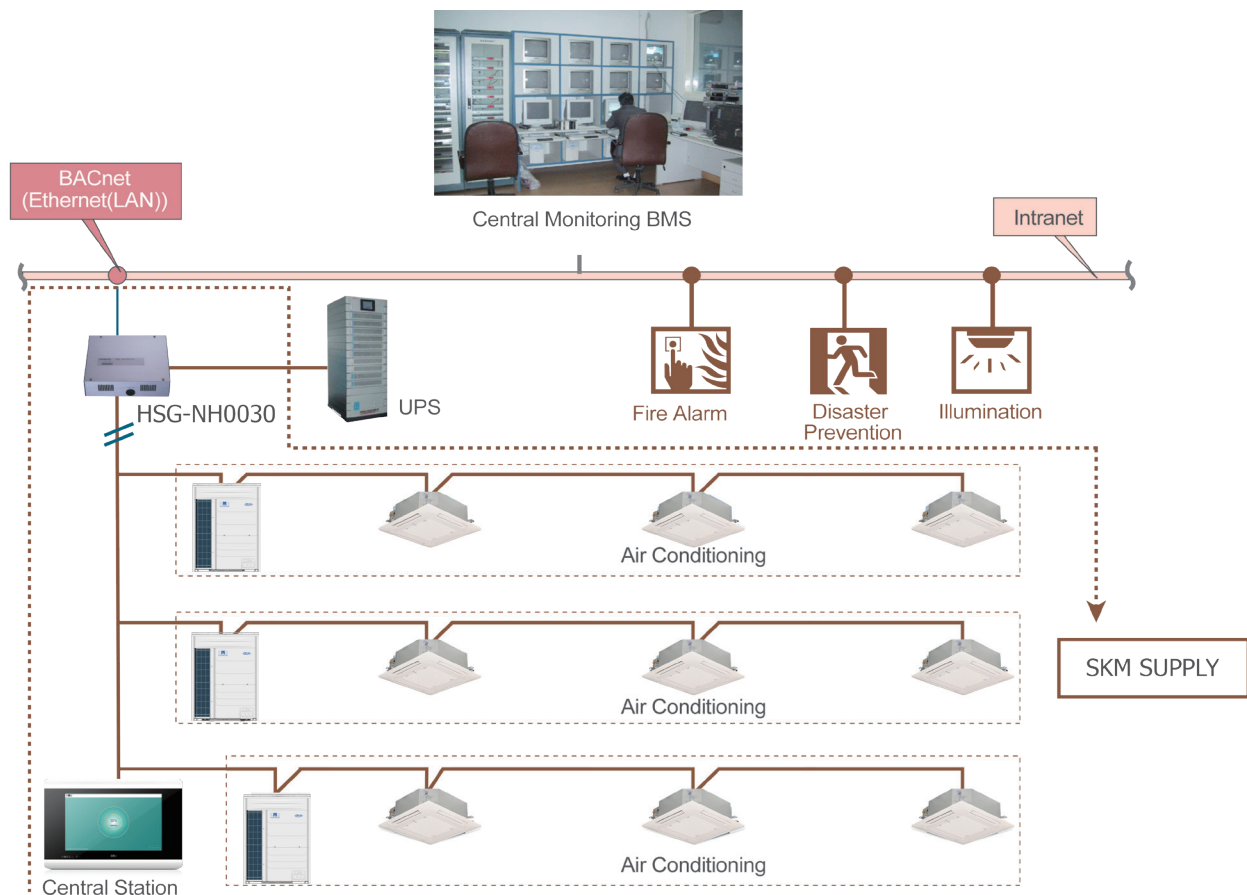
Model name	HSG-IF0010	Operating temperature	0°C ~ 40°C
Input voltage	AC 110~240V 50Hz/60Hz	Maximum operating current	10mA (220V)

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

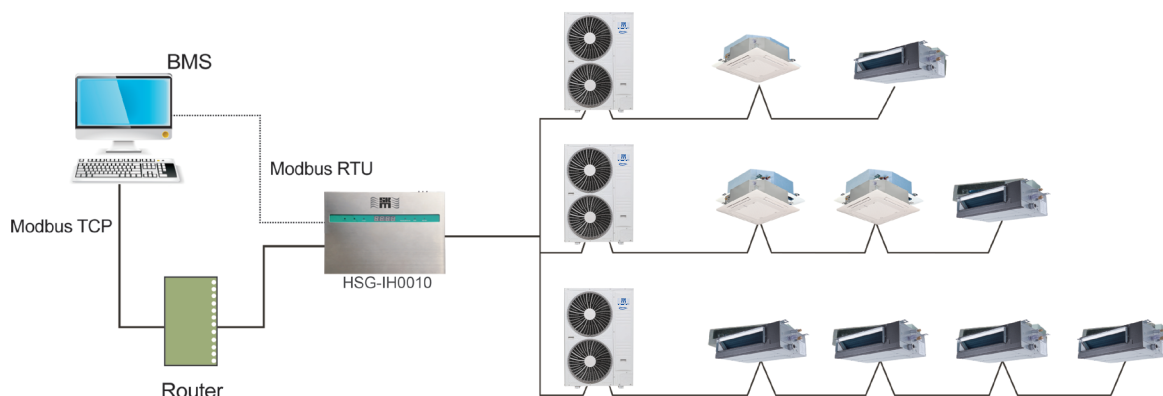
HSG-NH0030 BACnet



- ♦ 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
			
BMS Connection		BACnet	Modbus
Power Supply		AC100~240V±10%(50Hz/60Hz)	AC100~240V±10%(50Hz/60Hz)
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

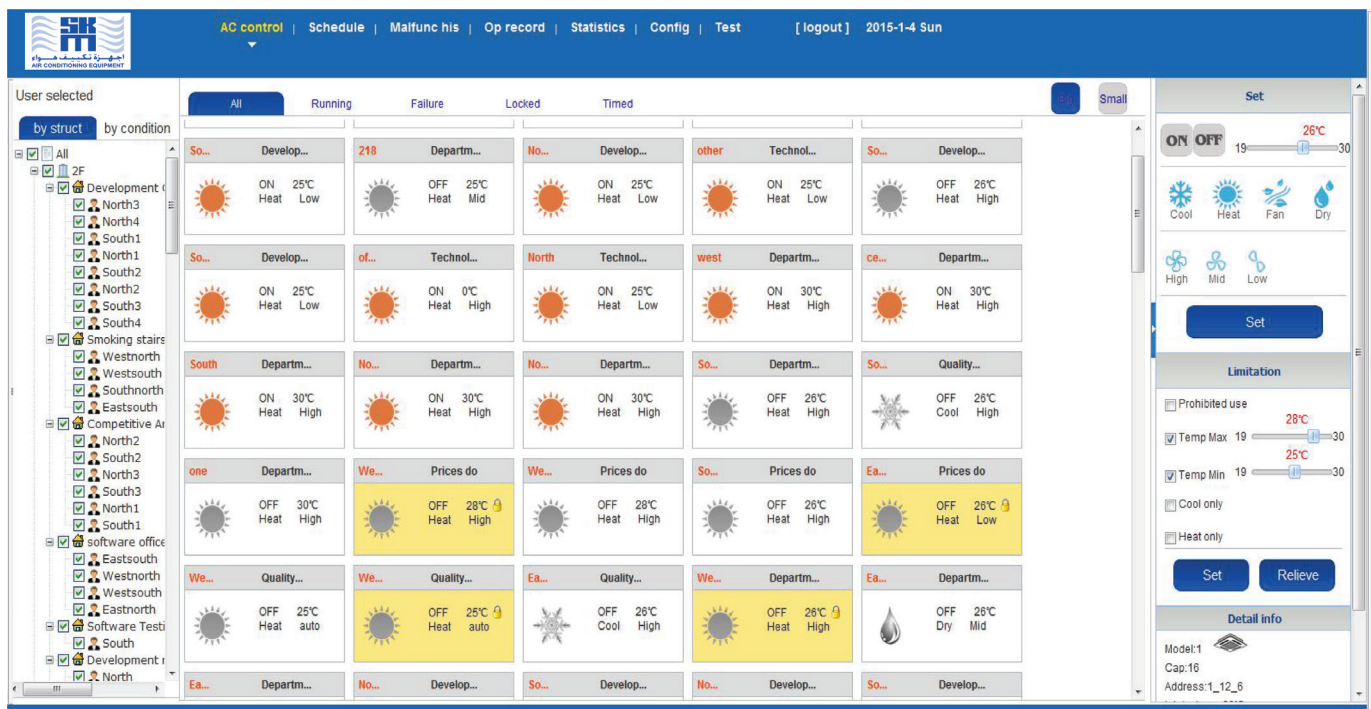
Building Management System with Billing System Feature

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.

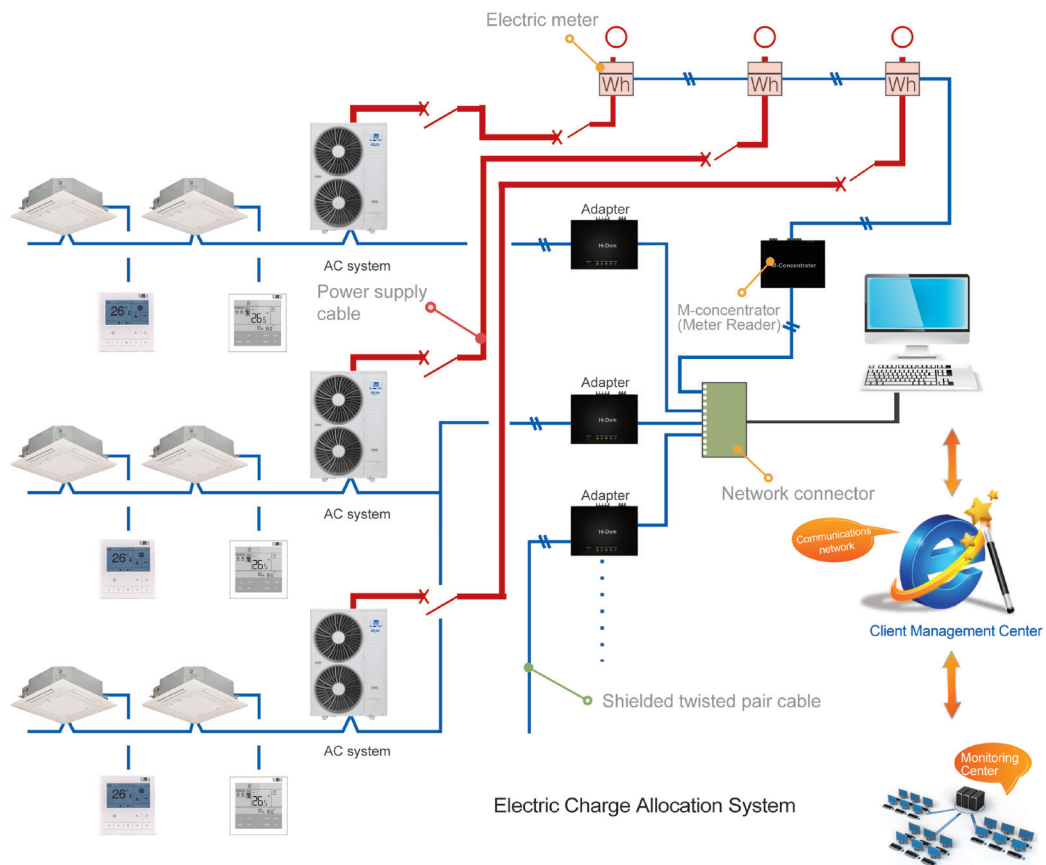


Electric Charge Allocation

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(60Hz)	9±1.5 W	900	For Ceiling ducted type(0.8~2.5HP)		
HSP-IL0010	AC 220~240V(60Hz)	9±1.5 W	900	For Ceiling ducted type(3.0~6.0HP)		
HSP-IL0030	AC 220~240V(60Hz)	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

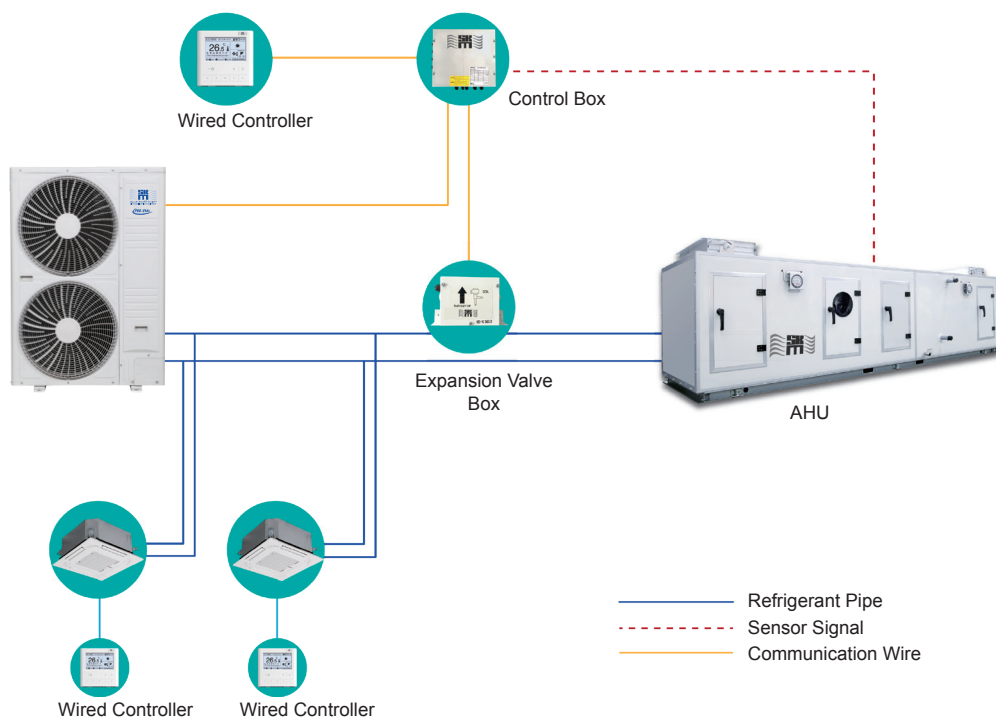


AHU Connection KIT

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



Multi combination with AHU and standard indoor unit, only for HSA-IJ0010~30 (2-6HP).

Single combination with only AHU, for HSA-IJ0040 (8-10HP) and HSA-IJ0050 (12-20HP).

AHU-KIT multi connection for one big AHU is available. If you have any questions, please contact our technical support.

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,220~240V/60HZ																
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

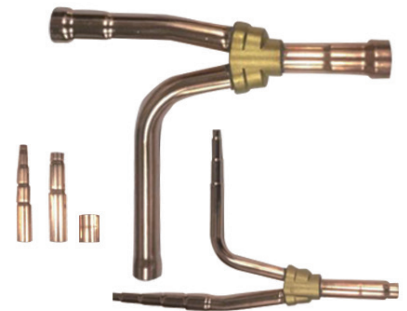


Piping Connection Kit

Branch Pipe Parameter

PRO-VMs Series

Capacity (KBTU/h)	Diameter	Outer Diameter of Pipe (mm)		
		Pipe Length	Gas	Liquid
38	—	—	Φ15.88	Φ 9.53
48				
54				
76	≤ 70m	—	Φ19.05	Φ 9.53
	≥ 70m	—	Φ19.05	Φ12.7
96	—	—	Φ 22.2	Φ12.7



Model	Gas Line	Liquid Line	Reducer for Gas Line	Reducer for Liquid Line
HSB-II0150				
HSB-II0010				
HSB-II0020				

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

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