



Product Lineup-Outdoor

Model	KIMS080AX	KIMS100AX	KIMS120AX	KIMS140AX	KIMS160AX	KIMS180AX	KIMS200AX	KIMS220AX
 KIMS080AX	●							
 KIMS100AX		●						
 KIMS120AX			●					
 KIMS140AX				●				
 KIMS160AX					●			
 KIMS180AX						●		
 KIMS200AX							●	
 KIMS220AX								●
 KIMS240AX		●		●				
 KIMS260AX		●			●			
 KIMS280AX				●●				
 KIMS300AX				●	●			
KIMS320AX				●		●		
KIMS340AX				●			●	
KIMS360AX				●				●
KIMS380AX					●			●
KIMS400AX							●●	
KIMS420AX							●	●
KIMS440AX								●●
KIMS460AX				●	●●			
KIMS480AX					●●●			
KIMS500AX				●	●		●	
KIMS520AX				●	●			●
KIMS540AX					●●			●
KIMS560AX				●			●	●
KIMS580AX				●				●●
KIMS600AX					●			●●
KIMS620AX							●●	●
KIMS640AX							●	●●
KIMS660AX								●●●

Model	KIMS080AXA	KIMS100AXA	KIMS120AXA	KIMS140AXA	KIMS160AXA	KIMS180AXA	KIMS200AXA	KIMS220AXA	KIMS240AXA	KIMS260AXA	KIMS280AXA	KIMS300AXA	KIMS320AXA
 KIMS080AXA	●												
 KIMS100AXA		●											
 KIMS120AXA			●										
 KIMS140AXA				●									
 KIMS160AXA					●								
 KIMS180AXA						●							
 KIMS200AXA							●						
 KIMS220AXA								●					
 KIMS240AXA									●				
 KIMS260AXA										●			
 KIMS280AXA											●		
KIMS300AXA												●	
KIMS320AXA													●
KIMS340AXA							●	●					
KIMS360AXA								●●					
KIMS380AXA									●	●			
KIMS400AXA										●●			
KIMS420AXA								●	●				
KIMS440AXA									●		●		
KIMS460AXA										●	●		
KIMS480AXA											●●		
KIMS500AXA										●		●	
KIMS520AXA											●		●
KIMS540AXA										●			●
KIMS560AXA												●●	
KIMS580AXA											●	●	
KIMS600AXA												●●	
KIMS620AXA												●	●
KIMS640AXA													●●

Product Lineup-Indoor

Model	Type	Photo	Capacity(kW)																											
			2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1	8	9	10	11.2	12.5	14	16	19.5	25	25.5	28	41	45	52	56	62	79
KMCF	Round Flow cassette				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
KMCS	One way cassette				●	●	●	●	●	●																				
KMCD	Two way cassette				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
KMDN-AC	Slim duct		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
KMDN-AB	Low ESP duct		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
KMDH-AB	High ESP duct																													
KMVX	Ceiling & Floor				●	●																								
KMVV	Wall-mounted				●	●	●																							
KMDH-AI	Big Capacity duct																													
KMDF	Fresh air processor																													

AHU KIT

Model	Cooling capacity (HP)	Indoor unit capacity (kW)	Reference air volume (m ³ /h)	Picture
KMDK280	8	20~25	3000	
	10	25~30	3700	
KMDK450	12	30~36	4500	
	14	36~40	5400	
KMDK900	16	40~45	6000	
	18	45~61	9000	
	26	61~73	10000	
	32	73~90	13000	

Basic Modules

KIMS-X Combination modules



Model	KIMS-AX	KIMS080AX	KIMS100AX	KIMS120AX	KIMS140AX	KIMS160AX	KIMS180AX	KIMS200AX	KIMS220AX			
Capacity	HP	8	10	12	14	16	18	20	22	Power type	208-230V	380-415V
	KW	25.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5	50Hz/3N	/	Available
Compressor		DC	DC	DC	DC	DC	DC+DC	DC+DC	DC+DC	60Hz/3N	/	Available
Fan motor		DC	DC	DC	DC	DC	DC+DC	DC+DC	DC+DC			

KIMS-X+ Combination modules



Model	KIMS-AXA	KIMS080AXA	KIMS100AXA	KIMS120AXA	KIMS140AXA	KIMS160AXA	KIMS180AXA	KIMS200AXA	KIMS220AXA	KIMS240AXA	KIMS260AXA	KIMS280AXA	KIMS300AXA	KIMS320AXA			
Capacity	HP	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	Power type	208-230V	380-415V
	KW	25.00	28.00	33.50	40.00	45.00	50.00	56.00	61.50	67.00	73.00	78.50	85.00	90.00	50Hz/3N	/	Available
Compressor		DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	60Hz/3N	/	Available						
Fan motor		DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC									

KIMS-AS+ Independent modules



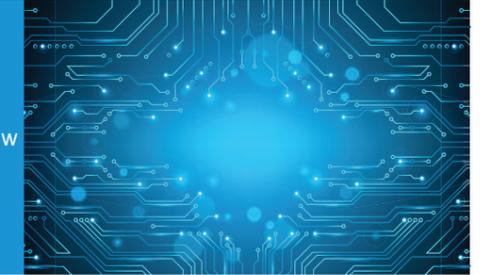
Model	KIMS-ASA	KIMS080AST	KIMS100AST	KIMS120AST	KIMS140AST	KIMS160AST	KIMS180AST	KIMS200ASA	KIMS220ASA	KIMS240ASA	KIMS260ASA	KIMS280ASA	KIMS300ASA	KIMS320ASA			
Capacity	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	Power type	208-230V	380-415V
	KW	25	28	33.5	40	45	53	56	61.5	67	73	78.5	85	90	50Hz/3N	/	Available
Compressor		DC	DC	DC	DC	DC	DC	DC+DC	60Hz/3N	/	Available						
Fan motor		DC	DC	DC	DC	DC	DC	DC+DC									



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- **High Reliability** 15
- **Convenient Application** 20
- **Widely Application Range** 23
- **ODU Specifications** 24

High Efficiency

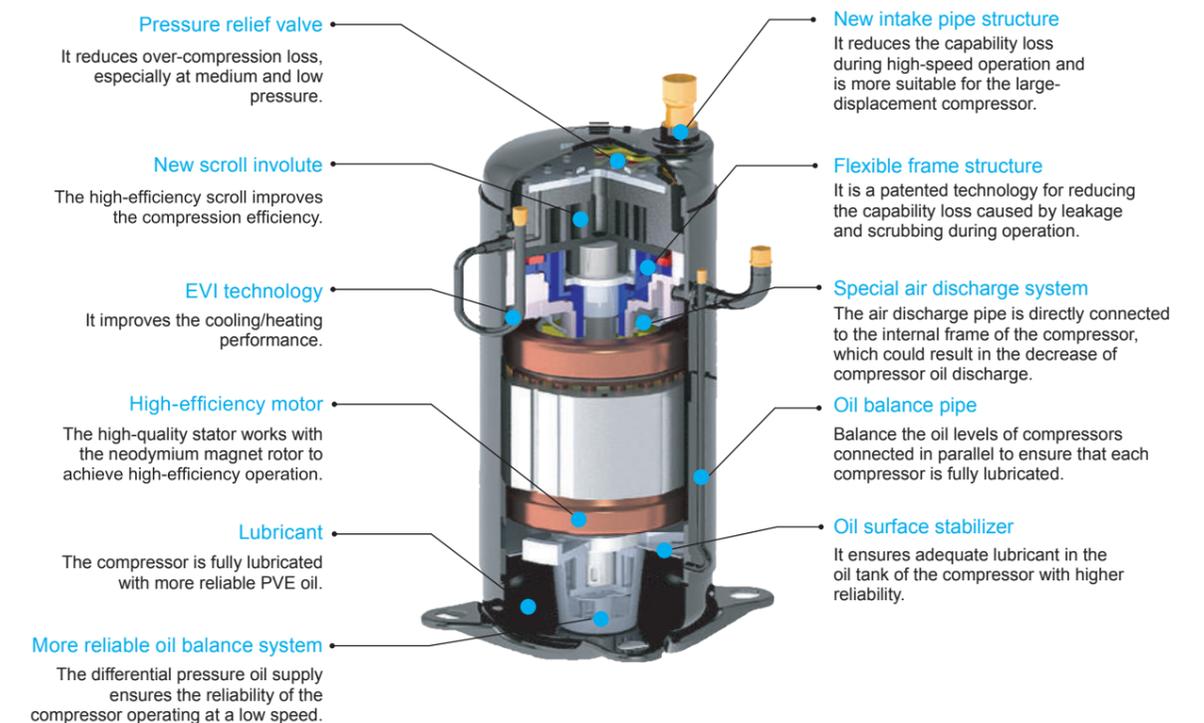
Catering to the global low-carbon trend, KING AIR launches a new product - KIMS DC Inverter Multi System central air-conditioning unit. It comes from multiple energy-saving technologies and is featured in the advanced energy-saving performance.



1. All DC Inverter Compressors

KIMS-X KIMS-AS+

The KIMS adopts the high-efficiency DC inverter scroll compressor with high-pressure chamber, which adopts asymmetric scroll design and high-efficiency internal oil separator. By integrating with the enhanced vapor injection technique, the KIMS can realize the heating under low ambient temperature in winter, and save more energy. The kind of system can run more stably and reliably.

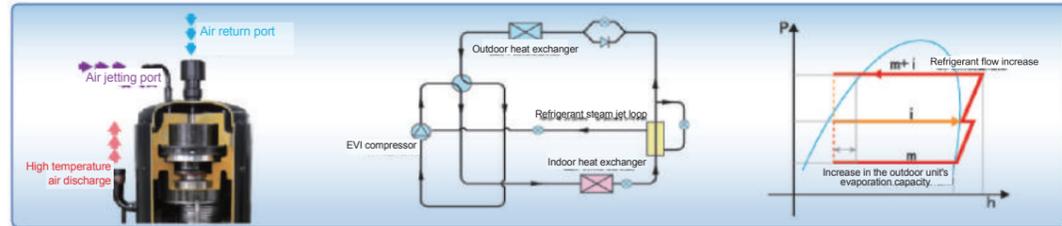


- Advantages of high-pressure chamber scroll compressor**
- ◆ The high-pressure chamber scroll compressor takes advantage of the inherent differential pressure to supply lubricant, and the lubricant supply is not affected by the rotational speed. Moreover it has long service life and good stability.
 - ◆ The refrigerant goes into the scroll of the compressor directly, it has less suction gas superheat and high volumetric efficiency.
 - ◆ The high-pressure chamber compressor uses its discharging gas to cool motor, which can not only guarantee the lubricant temperature when the motor runs at the low temperature, but also provide good control on low temperature.
 - ◆ When KIMS operates in heating mode, the high compression ratio guarantees the high discharge pressure, improves supply air temperature and heating efficiency.
 - ◆ The high-pressure chamber compressor has low noise and good noise reduction result.
 - ◆ The new refrigerant cycle design makes the electric motor have the best cooling, lower the operating temperature, and further improves the motor efficiency.

2. EVI technology, delivering industry-leading performance at the ultra-low temperature and ultra-high temperature

KIMS-X KIMS-AS+

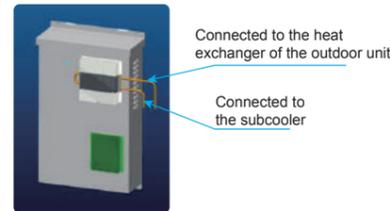
When the ambient temperature reaches the limit condition, the heat exchange capacity of the outdoor unit declines, and the air return volume of the compressor is reduced, accompanied by problems in compressor suction and discharge protection. The KING AIR KIMS VRF unit adopts the high efficiency EVI system and cooperates with KING AIR new inverter control and refrigerant system. In the unit, refrigerant is added the air jetting port to increase the displacement, so as to broaden the cooling and heating ranges of the unit, enhance the overall capacity through by 20%, and achieve the cooling capability without attenuation at 40°C and the heating capacity without attenuation at -15°C. In addition, the added refrigerant is injected into the pressure chamber of compressor to reduce the compression ratio and power consumption of the compressor, and improve the COP value by 10%. The low-temperature gaseous refrigerant inhaled by the air jetting port effectively reduces the temperature for the compressor and ensures high efficiency as well as more stable and reliable operation of the compressor.



3. Refrigerant cooling technology

KIMS-X KIMS-AS+

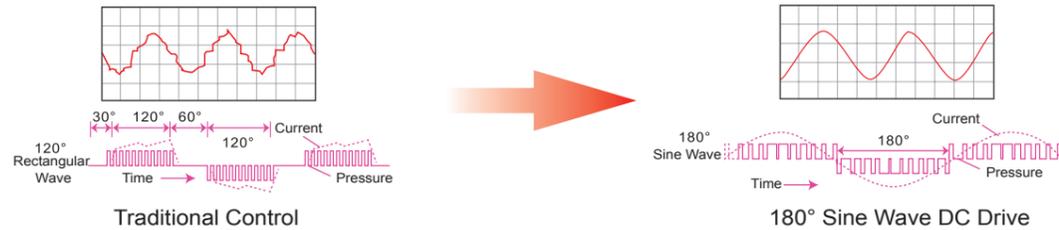
The inverter will produce a lot of heat. A high temperature may reduce the operating speed of the unit and affect system stability. In addition to the conventional air cooling technology, the KIMS also adopts the most advanced refrigerant cooling technology to use the condensed refrigerant (typically 30-55°C) to perform heat exchange with the drive (with a maximum temperature of 90°C). In this way, the drive temperature is greatly reduced, and the system runs more stably and reliably.



4. 180° Sine Wave Control Technology

KIMS-X KIMS-AS+

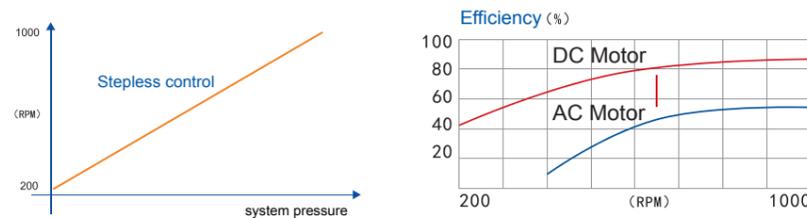
Non sensor control technology of permanent magnet synchronous motor makes output current of DC converter sine wave, which guarantee stability, reduce vibration prevent from electromagnetic interference to improve running efficiency



5. All DC Fan Motors

KIMS-X KIMS-AS+

The new DC inverter fan motor allows to make the five-stage speed regulation and adjust the speed according to the change in the system operation, and finally guarantees the system runs under the best condition. By matching the air flow changes and variable refrigerant flow also the heat exchanging demand, the system operates in high efficiency and low operating noise.



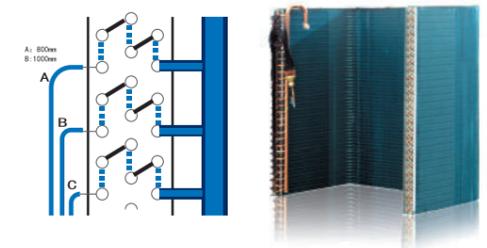
6. High Efficiency Heat Exchanger

KIMS-X KIMS-AS+

The outdoor heat exchanger adopts the high-efficiency internal thread copper pipe with the diameter of 7.0 and the new aluminium fin; its integral molding technology guarantees the larger heat exchange area, improves the air flow distribution, reduces the airflow resistance, exchanges the heat more efficiently, and reduces the impact of the frosting on the heating capacity of the system.

Refrigerant circuit of TOD

The specially designed TOD circuit increase the liquid refrigerant volume, improves and optimizes the heat exchange efficiency of the refrigerant.



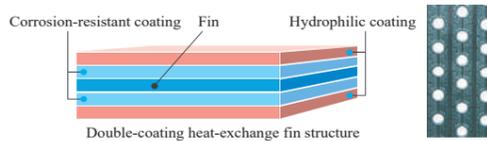
Inner-grooved copper pipe

The groove of the premium & efficient inner-grooved copper is designed on its inner surface, which increase the contact area of the refrigerant and improves the heat transfer efficiency.



Hydrophilic aluminum fin

The outdoor unit adopts the louver-type aluminum foil with the hydrophilic coating, which can efficiently prevent dirt accumulation, improve defrosting efficiency and enhance the heat exchange efficiency.



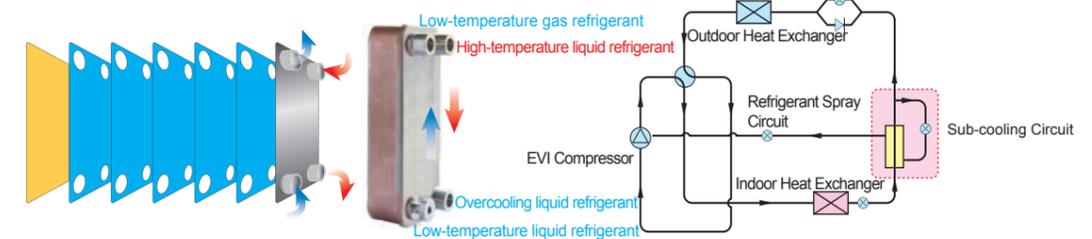
2-in-1 Refrigerant Loop

The specially designed 2-in-1 refrigerant loop can increase the liquid refrigerant volume and comprehensive heat exchange coefficient, making refrigerant heat exchange more sufficient and system more optimized.

7. Sub-cooling Design

KIMS-X KIMS-AS+

The unique sub-cooling design enhances the cooling capacity, heating capacity, cooling efficiency ratio (EER) and heating efficiency ratio (COP).



8. Large Capacity Compressor Design

KIMS-X KIMS-AS+

Less compressor configuration improves the system stability. The heating capacity is more powerful under low temperature, the exhaust volume and heating capacity are further improved for the large capacity compressor configuration under the equivalent frequency.



9. Stereo Air Inlet Technology of Four Directions

KIMS-X KIMS-AS+

In comparison to air inlet through three sides, the stereo air inlet technology of four directions can maximize utilization of the heat exchange area of heat exchanger, increase the air speed range, make heat exchange more sufficient, and improve the operation efficiency.



High Reliability



1. Six-fold Oil Return Control Technology

KIMS-X KIMS-AS+

By virtue of the solid R&D strength, KING AIR central air conditioning system integrates the advanced VRF technology process of Japanese expert team, and the full series of VRF units adopt the six-level oil control technology to make operation more stable and reliable.

● Internal Oil Separation Technology of Compressor

After realizing lubrication in the compressor, only a little lubricating oil enters the system together with the exhausted air. This effectively prevents excessive refrigeration oil from staying in the refrigeration cycle pipeline, thus ensuring the oil amount required for normal operation of the compressor.



● Oil Separation Technology of Oil Balancing Pipe for Compressor

The oil balancing pipe for compressor is used to provide excessive lubricating oil in the oil pool to the compressor with insufficient oil in the oil pool in the module, ensuring the lubrication effect of all the compressors.



● Efficient Oil Separator

The centrifugal oil separator separates the oil discharged from the compressor rapidly with the separation efficiency of 99.9%, and transports the oil back to each compressor efficiently in time, ensuring the oil amount required by the compressor.



● Intelligent Oil Return Control Technology of Main Board

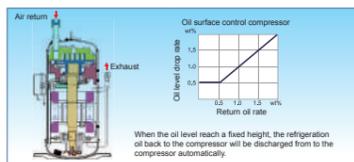
The main board sends an oil return instruction through the main chip according to the system operating time and status to implement automatic oil return of the system.



● ODU Oil Balancing Technology

The system can control and regulate the oil amount in the oil pools of different compressors between ODUs to balance oil return between all the modules.

The system automatically determines the proper oil discharge amount according to the oil amount of compressor, preventing oil leakage of the compressor and improving reliability. When the oil level reach a fixed height, the refrigeration oil back to the compressor will be discharged from to the compressor automatically.



● No Oil Balancing Pipe between ODUs

No oil balancing pipe is needed between ODU modules. This reduces pipeline leak points, improves the oil return stability and efficiency and makes installation convenient.

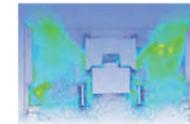


2. Ten Major Ultra Quiet Technologies

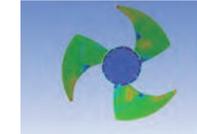
KIMS-X KIMS-AS+

The KIMS series adopt the omni-directional noise reduction technology and spiral flow fan blade to ensure a smooth suction structure and reduce the air flow noise. Supplemented with the sound insulation design of compressor, the unit can realize ultra quiet operation and create a comfortable environment of high quality.

The professional streamlined duct based on the fluid mechanics design helps to reduce the duct tremor generated due to the air flow resistance and has been awarded the title of patent technology.



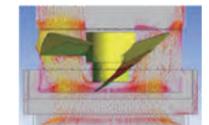
The fan blades with a larger diameter are adopted to yield a larger air volume at a lower speed and make noises lower.



The fan motor support employs a non-resonant hanger structure to ensure stable operation performance of the motor and reduce the vibration noise.



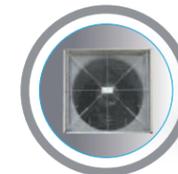
Vortex fan blade: The CAE auxiliary design and CFD air flow analysis technology are used to optimize the fan design, not only lowering the vibration, but also greatly reducing the pressure loss.



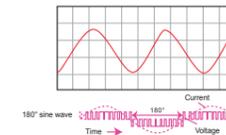
The brushless DC motor is adopted to implement stepless speed regulation and more stable operation, reducing noises as ensuring energy conservation and high efficiency.



The air streamlined fan grille promotes more smooth discharge of vortex air flow and reduces the pressure loss.



The compressor employs the 180° sine wave control technology to ensure smooth and stable operation, and abnormal noise during operation of the compressor can be suppressed effectively.



The noise enclosure design for the compressor avoids diffusion of compressor noises effectively.

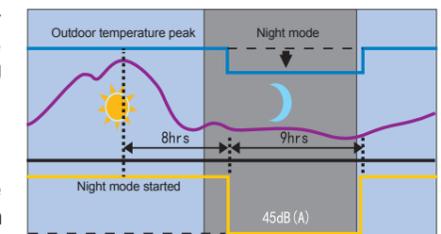


● Night Silent Mode

The system adopts the delay judgment mode based on the outdoor ambient temperature peak. Meanwhile, it will automatically judge whether to start the night silent operation mode according to the ODU ambient temperature and the current load size.

● Forced Silent Mode

For the site with a higher silent requirement, the user can select the forced silent operation mode as actually needed to reduce the operation noise of the unit and create a more quiet and comfortable environment.

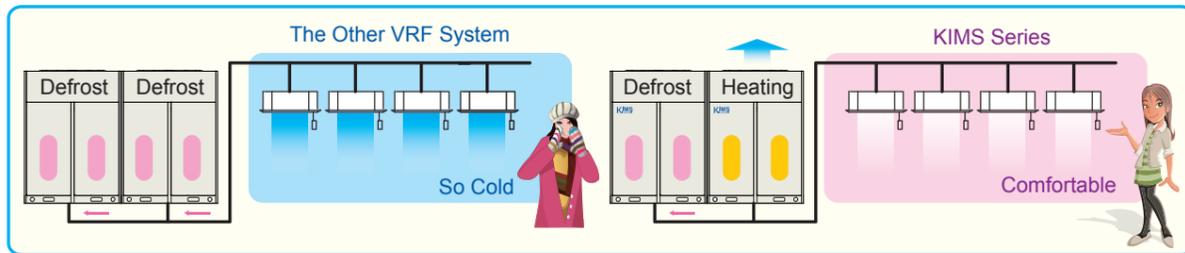


3. Efficient Heating and Smart Defrosting

KIMS-X KIMS-AS+

● TCC (KING AIR Comfortable Control) defrosting technology (patent No.: CN201320402500.9/ CN201320344961.5)

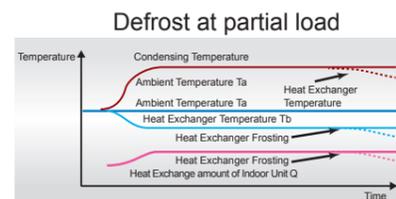
The unique TCC defrosting technology of KING AIR adopts the non-stop method. It is unnecessary to switch to the cooling mode when defrosting in winter, and less exhaust temperature fluctuation of IDU. There is no need to worry about the indoor instantaneous temperature reduction. The technology makes the system performance more stable and noise lower.



● Smart defrosting technology

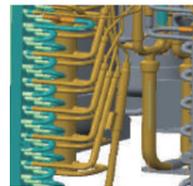
The smart defrosting technology allows to detect when to defrost according to every heating parameter, which can guarantee high heating capacity and energy efficiency ratio.

With the full load, the KIMS system will detect the defrosting time according to the heat transfer temperature difference of the outdoor unit. With the partial load, the KIMS system will detect the defrosting time according to the heat exchange efficiency of the outdoor unit.



● Bottom Frosting Prevention Design during Heating

The system employs the unique bottom frosting prevention design during heating to ensure that the ice water mixture is completely exhausted from the unit bottom during heating defrosting in winter, and avoid decrease of the heating capacity caused by frosting at the unit bottom.



● Anti snow capacity

When it snows heavily in winter, the KIMS unit will give priority to start the outdoor fan motor before user starts the outdoor unit; such design prevents the unit from being covered by the snow. Once the unit works normally, the fan will run normally.

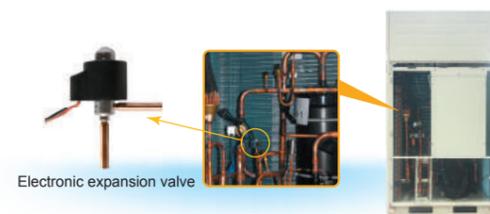


4. Automatic Detection and Regulation Technologies

KIMS-X KIMS-AS+

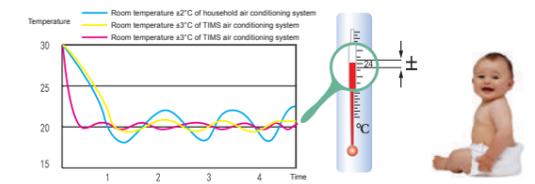
● Control Technology of Multiple Electronic Expansion Valves

A single ODU module is provided with multiple electronic expansion valves. Every electronic expansion valve can implement 480-step refrigerant flow regulation, control the refrigerant circulation quantity and meet the actual IDU requirement accurately, thus creating a more comfortable indoor environment.



● Small Room Temperature Fluctuation and High Precision

The DC inverter control technology is adopted to reach the set temperature rapidly when the unit starts, fine regulation is performed according to the load in the room, and the room temperature is controlled within $\pm 0.3^{\circ}\text{C}$ of the set temperature, fully meeting the customer's temperature requirement.



● Accurate Detection Technology of Refrigerant Pressure

The high/low pressure sensor is used to conduct real-time monitoring on the system refrigerant pressure, match the DC inverter module perfectly, and regulate the system refrigerant pressure to the optimal state, ensuring more stable operation of the unit.



● Automatic Addressing

The ODU main board automatically checks the IDU quantity and allocates addresses to IDUs without requiring manual code dialing, and installation is very convenient.



● SMT Surface Sealing Technology of Control Board

All the control boards adopt the SMT surface sealing technology, and sealing material is added to the control board surface to improve the anti-clutter interference performance of control board, prevent the control board from being affected by wind, sand and humid environment, and prolong the service life.



5. Stable Operation Functions

KIMS-X KIMS-AS+

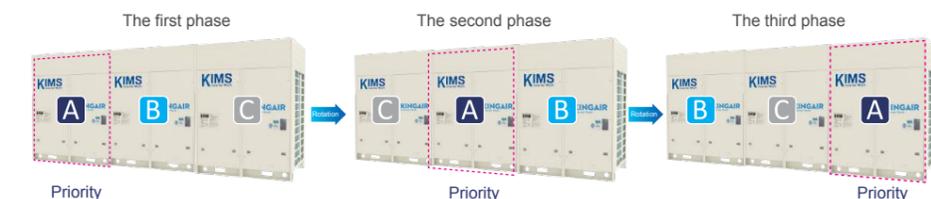
● Automatic Startup after Power Restoration

In case of an unexpected power failure, the system automatically stores the set memory. When power is restored, the system can restart automatically (manual startup can also be set), and the setting before the power failure will not be canceled but will continue to take effect. The program does not need to be reset, so service becomes more intelligent and considerate.



● Dual-rotation Operation Function

To ensure operation time balance between compressors and modules, KIMS can implement cyclic operation of all the compressors and modules to average the operation time of each compressor and each module effectively, enhance durability of the entire unit or system, and prolong the service life.



● Three-backup Operation Function

For single-module ODU, If one compressor or motor malfunctions or is being maintained, other compressors and motors can be urgently put to use. For multi-module ODU, if one module is being maintained, the other modules can also be urgently put to use, without affecting usability.



6. Multiple Protection Technologies

KIMS-X	KIMS-AS+
●	●

● Pipeline Exception Protection

When detecting a pipeline exception (too much or too little refrigerant, etc.) through real-time monitoring, the system can start pipeline exception protection immediately to avoid further losses.



● Anti-Reverse-Rotation Protection

In case of reverse rotation of ODU fan, the system will stop the fan first upon air conditioner startup, and then make it rotate in the correct direction of rotation as programmed, preventing the fan blade from being damaged.



● Thunder Stroke Protection

The ODU is designed with a thunder stroke protection module, greatly reinforcing the anti-interference and thunder stroke protection functions of the unit and making the system operation safer.



● IDU Maintenance Power-down Function

When an IDU needs to be stopped for maintenance, it can be powered down separately, without affecting operation of the entire system.

● Emergency Shutdown Function

In case of an emergency, the ODU can be shut down immediately and forcedly, to avoid causing harms and losses.

● Power Phase Sequence Protection and Grounding Protection Function

The unit is equipped with a power supply protector. In case of any exception such as phase sequence error or phase loss, the controller will record the power supply failure and report an alarm for shutdown.

● Power High/Low Voltage and Current Protection Function

The ODU can identify the power supply signal directly. In case of inadequate power supply (insufficient or too much), the ODU will send an instruction to the IDU to prohibit startup, thus effectively protecting the system safety.

● Compressor and Motor Overheat Protection

Multiple temperature sensors are installed to efficiently prevent scroll plate wear, carbonization metamorphism of oil, and motor damage due to reasons such as overheat of the compressor or motor.

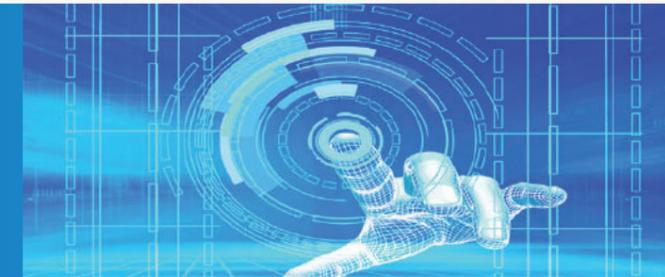
● Compressor Error Protection

The function includes compressor suction and exhaust temperature protection, compressor high/low pressure protection, compressor oil return protection, compression ratio protection, compressor oil temperature protection, pressure difference protection, compressor overload and over-current protection, compressor anti-liquid hammer protection, etc.

● Inverter EMI Protection and Temperature Protection

The system adopts the inverter of upgraded control accuracy, which can suppress harmonic current well and features high degree of EMI protection. When the system detects overheat of the inverter, it can start the inverter temperature protection function to prevent damage to the inverter.

Convenient Application

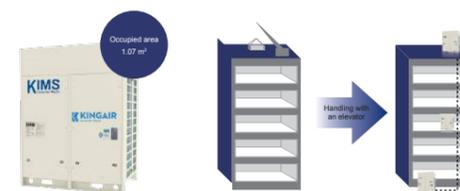


1. Full DC Inverter Compressors

KIMS-X	KIMS-AS+
●	●

● Compact, Easy to Transport and Handle

The modular combination requires less floor space, even the largest module occupies only an area of 1.07 m², and seamless assembling between modules promotes further space savings.



● 360° Outlet Pipe Connection

During construction, the refrigerant pipe can be connected to the unit front, left or right freely, reducing the construction cost and construction difficulty and facilitating engineering design and installation.



● Stable and Worry-free Operation

The system can control the air conditioner of each room respectively. Once an IDU fails, the other IDUs of the system are not affected and can keep operating properly.



● Easy and Convenient Maintenance

KIMS adopts intelligent control and requires no equipment room. Maintenance by designated person is not needed even during system operation, and control is more flexible.



While for traditional central air conditioning systems, maintenance by designated person is a must.

KIMS intelligent control

● Automated Diagnosis and Self Repair of Faults

The unique automatic fault diagnosis function can be used to get the fault information easily and realize self repair of some faults, enhancing the operation stability and reliability.



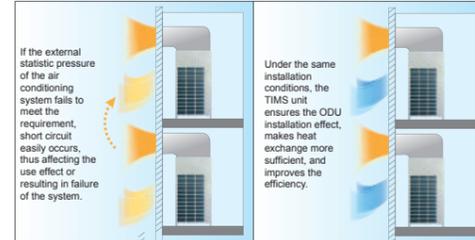
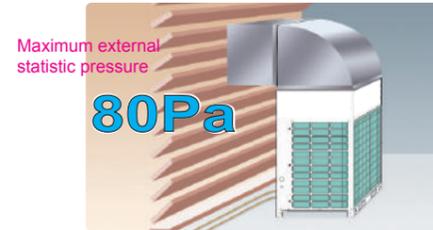
● Trial Operation Technology of ODU

During commissioning, the button on the ODU main board can be pressed to implement the forced trial operation function of the unit, making commissioning easier.

● Ultra-high External Static Pressure

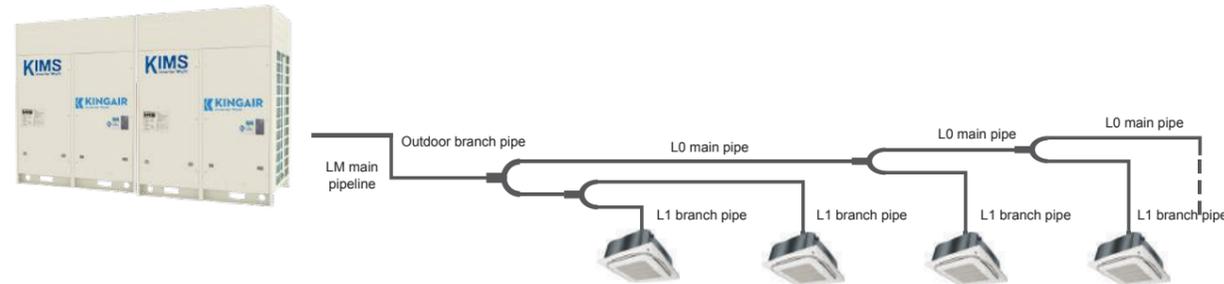
The system selects the blade with a higher air flow and the DC fan motor to realize a higher external static pressure on the precondition of avoiding noise change. The maximum external static pressure is 80 Pa.

Exhaust ducts can be installed by layer or in a centralized manner. The higher external static pressure realizes long distance air supply, prevents short circuit of the loop effectively, and ensures good ventilation effect.

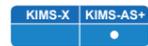


● Easy Refrigerant Pipe Design and Selection

The models of ODU main pipes and IDU branch pipes should be selected according to the parameter table. For the ultra-long pipeline, refer to the installation manual.

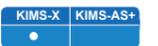


Design of KIMS Independent Main Pipe



Total capacity (kW) of downstream IDUs	Liquid pipe size (mm)	Gas pipe size (mm)	Branch joint
$X < 16.8$	Φ9.52	Φ15.88	TBP4022TA
$16.8 \leq X < 22.5$	Φ9.52	Φ19.05	TBP4022TA
$22.5 \leq X < 33.0$	Φ9.52	Φ22.23	TBP4033TA
$33.0 \leq X < 46.0$	Φ12.70	Φ25.40	TBP4072TA
$46.0 \leq X < 67.0$	Φ15.88	Φ28.58	TBP4072TA
$67.0 \leq X < 86.0$	Φ19.05	Φ31.75	TBP4073TA
$X \geq 86.0$	Φ19.05	Φ34.92	TBP4073TA

Design for Main Pipes of KIMS Modular unit Series



Total capacity (kW) of downstream IDUs	Liquid pipe size (mm)	Gas pipe size (mm)	Branch joint
$X < 16.8$	Φ9.52	Φ15.88	TBP4022TA
$16.8 \leq X < 22.5$	Φ9.52	Φ19.05	TBP4022TA
$22.5 \leq X < 33.0$	Φ9.52	Φ22.23	TBP4033TA
$33.0 \leq X < 46.0$	Φ12.70	Φ25.40	TBP4072TA
$46.0 \leq X < 67.0$	Φ15.88	Φ28.58	TBP4072TA
$67.0 \leq X < 86.0$	Φ19.05	Φ31.75	TBP4073TA
$86.0 \leq X < 114.0$	Φ19.05	Φ34.92	TBP4073TA
$114.0 \leq X < 140.0$	Φ19.05	Φ38.10	TBP4073TA
$X \geq 140.0$	Φ19.05	Φ41.30	TBP4073TA



Widely Application Range



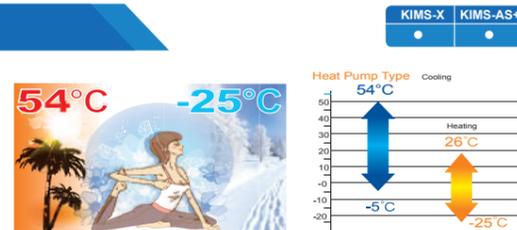
1. Widely Capacity Range

KING AIR KIMS-X series extensive capacity ranging from 8HP to 66HP, and KING AIR KIMS-S series, Non-Modular type VRF capacity ranging from 8HP to 32HP.



2. Widely Operating Range of Cooling and Heating

Through the strict system matching and test, the system has very powerful cooling and heating performance, even operates under -25°C during cold winter or 54°C in summer.



3. Overlong Pipe & High Drop Design

Maximum actual length of single pipe	200 m
Maximum equivalent length of single pipe	240 m
Maximum total equivalent pipe length	1100 m
Maximum drop of indoor/outdoor unit	110 m
Maximum drop of indoor unit	30 m
Maximum permitted length after first branch	90 m



* Pls consult the detailed technical documentation or other matters with the relative technicians.

ODU Specifications



KIMS-AX

- Single Module: 8/10/12/14/16/18/20/22HP
- Combination Module: 24HP-66HP, 2-3 modules
- Full DC Inverter Technology
- Max. 1000m pipe length, Max. 110m height drop



Model		KIMS080AX	KIMS100AX	KIMS120AX	KIMS140AX	KIMS160AX	KIMS180AX	KIMS200AX	KIMS220AX	
Capacity	Combination model	-	-	-	-	-	-	-	-	
	Capacity range	HP	8	10	12	14	16	18	20	22
	Cooling	kW	25.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5
Rated input	Heating	kW	27.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0
	Rated current	A	12.5	13.4	16.4	19.6	24.1	30.5	35.2	40.0
Power supply	V/N/Hz	380V/3N/50Hz/60Hz								
	EER	kW/kW	4.08	3.95	3.88	3.75	3.56	3.53	3.60	3.68
Rated input	COP	kW/kW	4.45	4.49	4.36	4.25	3.99	3.96	4.06	4.14
	Cooling	kW	6.12	7.09	8.63	10.67	12.64	14.16	15.56	16.71
Rated current	Heating	kW	6.07	7.02	8.60	10.58	12.60	14.12	15.52	16.65
	Heating	A	13.6	13.9	16.7	20.0	24.0	30.1	34.9	35.0
Refrigerant	Type	R410A								
	Charge volume	kg	8	10	12	14	16	18	20	22
Compressor	Type	Scroll type								
	Quantity	1				1+1				
	Refrigerant oil charge volume	L	0.50	0.50	1.10	1.10	0.50	0.50	0.50	0.50
Fan	Type	Axial flow								
	Quantity	1				1+1				
Fan motor	Insulation class	IP24								
	Drive Type	DC								
Airflow rate	m ³ /h	12000				13980		18780	20820	22020
Connecting pipe	Liquid pipe	mm	φ12.7		φ12.7		φ12.7		φ15.88	
	Gas pipe	mm	φ22.23		φ25.4		φ28.58		φ28.58	
	Connection method	Welding								
ESP	Pa	0-80								
Sound pressure level	dB(A)	45-57				45-59		45-62		45-63
Outline dimension	mm	930*860*1710				1240*860*1710		1500*860*1710		1500*860*1710
Package dimension	mm	1020*950*1950				1300*950*1950		1585*950*1950		
Net weight	kg	225	225	225	290	290	430	430	430	
Gross weight	kg	245	245	245	310	310	450	450	450	
Maximum drive IDU NO.	unit	14	16	19	22	23	31	33	34	
Max. equivalent connection pipe length	m	240	240	240	240	240	240	240	240	
Working temp.	Cooling	°C								
	Heating	°C								

Notes:

1. Cooling operating temperature range is from -5°C to 50°C, Heating operating temperature range is from -20°C to 24°C.
2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and lower as a result of ambient conditions when under ultra-silent operation
5. Choosing fuse or breaker according to MFA and electrical wiring according to MCA.
6. The above data may be changed without notice for future improvement on quality and performance.

KIMS-AX

- Single Module: 8/10/12/14/16/18/20/22HP
- Full DC Inverter Technology
- Max. 1000m pipe length, Max. 110m height drop



Model			KIMS240AX	KIMS260AX	KIMS280AX	KIMS300AX	KIMS320AX	KIMS340AX	KIMS360AX	KIMS380AX	KIMS400AX	KIMS420AX	KIMS440AX	
Combination model			10+14	10+16	14+14	14+16	16+16	14+20	14+22	16+22	20+20	20+22	22+22	
Capacity	Capacity range	HP	24	26	28	30	32	34	36	38	40	42	44	
	Cooling	kW	68.0	73.0	80.0	85.0	90.0	96.0	101.5	106.5	112.0	117.5	123.0	
	Heating	kW	76.5	81.5	90.0	95.0	100.0	108.0	114.0	119.0	126.0	132.0	138.0	
Power supply	V/N/Hz		380V/3N/50Hz/60Hz											
EER	kW/kW		3.83	3.70	3.75	3.65	3.56	3.66	3.71	3.63	3.60	3.64	3.68	
COP	kW/kW		4.35	4.15	4.25	4.10	3.97	4.14	4.19	4.07	4.06	4.10	4.14	
Rated input	Cooling	kW	17.76	19.73	21.34	23.31	25.28	26.23	27.38	29.35	31.12	32.27	33.42	
	Heating	kW	17.60	19.62	21.16	23.18	25.20	26.10	27.23	29.25	31.04	32.17	33.30	
Rated current	Cooling	A	33.00	37.50	39.20	43.70	48.20	54.80	59.60	61.04	70.40	75.20	80.00	
	Heating	A	3350	37.90	40.00	44.00	48.00	54.90	55.00	59.00	69.80	69.90	70.00	
Refrigerant	Type	R410A												
	Charge volume	kg	8+12		12+12			12+16			16+16			
Compressor	Type	Scroll type												
	Quantity	1+1												
	Refrigerant oil charge volume	L	0.5+1.10		1.10+1.10			1.10+0.50			0.50+0.50			
Fan	Type	Axial flow												
	Quantity	1+1												
Fan motor	Insulation class	IP24												
	Drive type	DC												
Airflow rate	m ³ /h	12030+13980		13990+13980			13930+20320			20820+20820			22020+22020	
Connecting pipe	Liquid pipe	mm	φ19.05											
	Gas pipe	mm	φ31.75											
	Connection method	Welding												
ESP	Pa	0-80												
Sound pressure level	dB(A)	48-59		48-60			48-66			50-67				
Outline dimension	mm	(930+1240)*860*1710		(1240+1240)*850*1710			(1240+1500)*860*1710			(1500+1500)*860*1710				
Package dimension	mm	-												
Net weight	kg	225+290	225+290	290+290	290+290	290+290	290+430			430+430				
Gross weight	kg	245+310	245+310	310+310	310+310	310+310	310+450			450+450				
Maximum drive IDU NO.	unit	35	35	36	38	40	42	44	46	48	50	52		
Max. equivalent connection pipe length	m	240												
Working temp.	Cooling	-5~50°C												
	Heating	-20~24°C												

Notes:

1. Cooling operating temperature range is from -5°C to 50°C, Heating operating temperature range is from -20°C to 24°C.
2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and lower as a result of ambient conditions when under ultra-silent operation
5. Choosing fuse or breaker according to MFA and electrical wiring according to MCA.
6. The above data may be changed without notice for future improvement on quality and performance.

KIMS-AX

- Single Module: 8/10/12/14/16/18/20/22HP
- Full DC Inverter Technology
- Max. 1000m pipe length, Max. 110m height drop



Model			KIMS460AX	KIMS480AX	KIMS500AX	KIMS520AX	KIMS540AX	KIMS560AX	KIMS580AX	KIMS600AX	KIMS620AX	KIMS640AX	KIMS660AX		
Combination model			14+16+16	16+16+16	14+16+20	14+16+22	16+16+22	14+20+22	14+22+22	16+22+22	20+20+22	20+22+22	22+22+22		
Capacity	Capacity range	HP	46	48	50	52	54	56	58	60	62	64	66		
	Cooling	kW	130.0	135.0	141.0	146.5	151.5	157.5	163.0	168.0	173.5	179.0	184.5		
	Heating	kW	145.0	150.0	158.0	164.0	169.0	177.0	183.0	183.0	195.0	201.0	207.0		
Power supply	V/N/Hz		380V/3N/50Hz/60Hz												
EER	kW/kW		3.62	3.56	3.63	3.66	3.61	3.67	3.70	3.65	3.63	3.65	3.68		
COP	kW/kW		4.05	3.96	4.08	4.12	4.04	4.14	4.17	3.99	4.09	4.12	4.14		
Rated input	Cooling	kW	35.95	37.92	38.87	40.02	41.99	42.94	44.09	46.06	47.83	48.98	50.13		
	Heating	kW	35.78	37.80	38.70	39.83	41.85	42.75	43.88	45.90	47.69	48.82	49.95		
Rated current	Cooling	A	67.80	72.30	78.90	83.70	88.20	94.83	99.60	104.10	110.40	115.20	120.03		
	Heating	A	68.00	72.00	78.90	79.00	83.00	89.90	90.00	94.03	104.80	104.90	105.03		
Refrigerant	Type	R410A													
	Charge volume	kg	12+12+12		12+12+16			12+16+16			16+16+16				
Compressor	Type	Scroll type													
	Quantity	1+1+1													
	Refrigerant oil charge volume	L	1.10+1.10+1.10		1.10+1.10+0.50			1.10+0.50+0.50			0.50+0.50+0.50				
Fan	Type	Axial flow													
	Quantity	1+1+1													
Fan motor	Insulation class	IP24													
	Drive type	DC													
Airflow rate	m ³ /h	13980+13980+13980		13980+13980+20820			13993+22020+22020			13993+22020+22020		20820+20820+22020		20820+22020+22020	
Connecting pipe	Liquid pipe	mm	φ19.05												
	Gas pipe	mm	φ38.10												
	Connection method	Welding													
ESP	Pa	0-80													
Sound pressure level	dB(A)	50-63		50-66		50-67		50-68			50-69				
Outline dimension	mm	(1240+1240+1240)*860*1710		(1240+1240+1500)*860*1710			(1240+1500+1500)*860*1710			(1500+1500+1500)*860*1710					
Package dimension	mm	-													
Net weight	kg	290+290+290		290+290+430			290+430+430			430+430+430					
Gross weight	kg	310+310+310		310+310+450			310+450+450			450+450+450					
Maximum drive IDU NO.	unit	54	56	58	60	62	64	64	64	64	64	64			
Max. equivalent connection pipe length	m	240													
Working temp.	Cooling	-5~50°C													
	Heating	-20~24°C													

Notes:

1. Cooling operating temperature range is from -5°C to 50°C, Heating operating temperature range is from -20°C to 24°C.
2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and lower as a result of ambient conditions when under ultra-silent operation
5. Choosing fuse or breaker according to MFA and electrical wiring according to MCA.
6. The above data may be changed without notice for future improvement on quality and performance.

KIMS-AST

- Full DC Inverter Technology
- Max. 1000m pipe length, Max. 110m height drop



Strong-heating independent outdoor unit

Model			KIMS080AST	KIMS100AST	KIMS120AST	KIMS140AST	KIMS160AST	KIMS180AST
Capacity	Capacity Range	HP	8	10	12	14	16	18
	Cooling	kW	25	28	33.5	40	45	50
	Heating	kW	27	31.5	37.5	45	50	56
Power supply		V/N/Hz	380~415V 3N~50Hz					
EER		kW/kW	4.33	4.03	3.85	3.67	3.52	3.47
COP		kW/kW	4.99	4.77	4.52	4.34	4.10	4
Rated input	Cooling	kW	5.78	6.94	8.7	10.9	12.8	14.4
	Heating	kW	5.41	6.6	8.3	10.38	12.2	14
Rated current	Cooling	A	12.5	13.4	16.4	19.6	24.1	33.5
	Heating	A	13.6	13.9	16.7	20	24	31
Refrigerant	Type		R410A					
	Charge volume	kg	8	8	10	12	12	12
Compressor	Type	—	Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll
	Quantity	—	1	1	1	1	1	1
	Refrigerant oil charge Volume	L	1.1	1.1	1.1	2.3	2.3	2.3
Fan	Type	—	Axial flow fan	Axial flow fan	Axial flow fan	Axial flow fan	Axial flow fan	Axial flow fan
	Quantity	—	1	1	1	1	1	1
Fan Motor	Insulation class	—	IP14	IP14	IP14	IP14	IP14	IP14
	Drive Type	—	DC	DC	DC	DC	DC	DC
Airflow rate		m³/h	12000			13980		
Connecting pipe	Liquid Pipe	mm	φ9.52		φ12.70		φ12.70	
	Gas Pipe	mm	φ22.23		φ25.40		φ28.58	
	Connection method			Brazing	Brazing	Brazing	Brazing	Brazing
ESP		Pa	0 Pa (maximum: 80 Pa)					
Sound pressure level		dB(A)	57	57	57	64	64	64
Outline dimension		mm	930x860x1710			1240x860x1710		
Package dimension		mm	1020*950*1950			1330*950*1950		
Net weight		kg	225	225	225	290	290	290
Gross weight		kg	235	235	235	300	300	300
Maximum drive IDU NO.		unit	14	16	19	22	23	24
Max. equivalent connection pipe length		m	1000	1000	1000	1000	1000	1000
Working temp.	Cooling	°C	- 5~50°C					
	Heating	°C	- 20~24°C					

Notes:

1. Cooling operating temperature range is from -5°C to 50°C, Heating operating temperature range is from -20°C to 24°C.
2. The cooling condition:indoor side 27°C (80.6°F) DB,19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition:indoor side 20°C (68°F) DB,15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level:measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and lower as a result of ambient conditions when under ultra-silent operation
5. Choosing fuse or breaker according to MFA and electrical wiring according to MCA.
6. The above data may be changed without notice for future improvement on quality and performance.

KIMS-ASA

- Full DC Inverter Technology
- Max. 1000m pipe length, Max. 110m height drop



Independent outdoor unit

Model			KIMS200ASA	KIMS220ASA	KIMS240ASA	KIMS260ASA	KIMS280ASA	KIMS300ASA	KIMS320ASA
Capacity	Capacity Range	HP	20	22	24	26	28	30	32
	Cooling	kW	56	61.5	67	73	78.5	85	90
	Heating	kW	63	69	75	81.5	87.5	95	100
Power supply		V/N/Hz	380~415V 3N~50Hz						
EER		kW/kW	3.29	3.31	3.19	3.33	3.30	3.26	3.25
COP		kW/kW	3.99	3.88	3.75	4.03	3.98	3.86	3.83
Rated input	Cooling	kW	17	18.6	21	21.9	23.8	26.1	27.7
	Heating	kW	15.8	17.8	20	20.2	22	24.6	26.1
Rated current	Cooling	A	35.20	40.00	41.50	44.56	48.33	52.23	55.26
	Heating	A	34.90	35.00	36.20	40.15	46.24	49.24	53.44
Refrigerant	Type		R410A						
	Charge volume	kg	16	16	16	20	22	22	22
Compressor	Type	—	Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll	Inverter scroll
	Quantity	—	2	2	2	2	2	2	2
	Refrigerant oil charge Volume	L	2.30	2.30	2.30	2.30	2.30	2.30	2.30
Fan	Type		Axial flow fan	Axial flow fan	Axial flow fan	Axial flow fan	Axial flow fan	Axial flow fan	Axial flow fan
	Quantity		2	2	2	2	2	2	2
Fan Motor	Insulation class	—	IP14	IP14	IP14	IP14	IP14	IP14	IP14
	Drive Type	—	DC	DC	DC	DC	DC	DC	DC
Airflow rate		m³/h	25800			27000			
Connecting pipe	Liquid Pipe	mm	φ15.88			φ19.05		φ19.05	
	Gas Pipe	mm	φ28.58			φ28.58		φ31.75	
	Connection method			Brazing	Brazing	Brazing	Brazing	Brazing	Brazing
ESP		Pa	0 Pa (maximum: 80 Pa)						
Sound pressure level		dB(A)	64	64	64	65	65	65	65
Outline dimension		mm	1500x860x1710			1500x860x1710			
Package dimension		mm	1585*950*1950			1585*950*1950			
Net weight		kg	430	430	430	460	488	488	488
Gross weight		kg	445	445	445	475	503	503	503
Maximum drive IDU NO.		unit	33	34	35	35	36	38	40
Max. equivalent connection pipe length		m	1000	1000	1000	1000	1000	1000	1000
Working temp.	Cooling	°C	-5~50°C						
	Heating	°C	-20~24°C						

Notes:

1. Cooling operating temperature range is from -5°C to 50°C, Heating operating temperature range is from -20°C to 24°C.
2. The cooling condition:indoor side 27°C (80.6°F) DB,19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition:indoor side 20°C (68°F) DB,15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level:measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and lower as a result of ambient conditions when under ultra-silent operation
5. Choosing fuse or breaker according to MFA and electrical wiring according to MCA.
6. The above data may be changed without notice for future improvement on quality and performance.

KIMS-AXA

- Single Module: 8/10/12/14/16/18/20/22/24/26/28//30/32HP
- Combination Module: 34HP-64HP, 2 modules
- Full DC Inverter Technology
- Max. 1100m pipe length, Max. 110m height drop



Model	KIMS080AXA	KIMS100AXA	KIMS120AXA	KIMS140AXA	KIMS160AXA	KIMS180AXA	KIMS200AXA	KIMS220AXA	KIMS240AXA	KIMS260AXA	KIMS280AXA	KIMS300AXA	KIMS320AXA	KIMS340AXA	KIMS360AXA		
Combination Model	-	-	-	-	-	-	-	-	-	-	-	-	-	18+16	18+18		
Capacity	Capacity Range	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
	Cooling	kW	25	28	33.5	40	45	50	56	61.5	67	73	78.5	85	90	95	100
	Heating	kW	27	31.5	37.5	45	50	56	63	69	75	81.5	87.5	95	100	106	112
Power supply	V/N/Hz	380V 3N-50Hz															
EER	kW/kW	4.33	4.03	3.85	3.67	3.52	3.47	3.29	3.31	3.19	3.34	3.30	3.26	3.25	3.49	3.47	
COP	kW/kW	4.99	4.77	4.52	4.34	4.10	4.00	3.99	3.88	3.75	4.04	3.99	3.87	3.83	4.05	4.00	
Rated input	Cooling	kW	5.78	6.94	8.70	10.90	12.80	14.40	17.00	18.60	21.00	21.85	23.78	26.05	27.65	27.20	28.80
	Heating	kW	5.41	6.60	8.30	10.38	12.20	14.00	15.80	17.80	20.00	20.15	21.92	24.55	26.08	26.20	28.00
Rated current	Cooling	A	12.50	13.40	16.40	23.90	28.30	30.50	35.20	40.00	41.50	45.00	48.33	52.23	55.26		
	Heating	A	13.60	13.90	16.70	20.90	24.90	26.50	34.90	35.00	36.20	41.50	46.24	49.24	53.44		
Refrigerant	Type	R410A															
	Charge volume	kg	8	8	10	12	12	16	16	16	18	22	22	22	12+12	12+12	
Compressor	Type	Inverter scroll															
	Quantity	-	1	1	1	1	1	2	2	2	2	2	2	2	1+1	1+1	
Fan Motor	Quantity	1	1	1	1	1	2	2	2	2	2	2	2	1+1	1+1		
	Drive Type	-	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	
Airflow rate	m ³ /h	12000			13980			25800			27000			13980+13980			
Connecting pipe	Liquid Pipe	mm	φ9.52		φ12.70		φ12.70		φ15.88		φ19.05		φ19.05				
	Gas Pipe	mm	φ22.23		φ25.40		φ28.58		φ28.58		φ31.75		φ34.92				
Sound pressure level	dB(A)	45-57			45-64			48-64			49-56			48-66			
Outline dimension	mm	930x860x1710			1240x860x1710			1500x860x1710			1900x860x1710			(1240+1240)x860x1710			
Package dimension	mm	1020x950x1950			1300x950x1950			1585x950x1950			1985x950x1950			(1300+1300)x950x1950			
Net weight	kg	225	225	225	290	290	290	430	430	430	450	488	488	488	290+290	290+290	
Gross weight	kg	235	235	235	300	300	300	440	440	440	460	498	498	498	300+300	300+300	
Maximum drive IDU NO.	unit	14	16	19	22	23	31	33	34	35	35	36	38	40	42	44	
Working temp.	Cooling	°C	-5~54°C														
	Heating	°C	-25~26°C														

Notes:

1. Cooling operating temperature range is from -5°C to 54°C, Heating operating temperature range is from -25°C to 26°C.
2. The cooling condition:indoor side 27°C (80.6°F) DB,19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition:indoor side 20°C (68°F) DB,15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level:measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and lower as a result of ambient conditions when under ultra-silent operation
5. Choosing fuse or breaker according to MFA and electrical wiring according to MCA.
6. The above data may be changed without notice for future improvement on quality and performance.

KIMS-AXA

- Single Module: 8/10/12/14/16/18/20/22/24/26/28//30/32HP
- Combination Module: 34HP-64HP, 2 modules
- Full DC Inverter Technology
- Max. 1100m pipe length, Max. 110m height drop



Model	KIMS380AXA	KIMS400AXA	KIMS420AXA	KIMS440AXA	KIMS460AXA	KIMS480AXA	KIMS500AXA	KIMS520AXA	KIMS540AXA	KIMS560AXA	KIMS580AXA	KIMS600AXA	KIMS620AXA	KIMS640AXA		
Combination Model	20+18	20+20	22+20	24+20	24+22	24+24	28+22	30+22	32+22	28+28	30+28	30+30	32+30	32+32		
Capacity	Capacity Range	HP	38	40	42	44	46	48	50	52	54	56	58	60	62	64
	Cooling	kW	106	112	117.5	123	128.5	134	140	146.5	151.5	157	163.5	170	175	180
	Heating	kW	119	126	132	138	144	150	156.5	164	169	175	182.5	190	195	200
Power supply	V/N/Hz	380V 3N-50Hz														
EER	kW/kW	3.38	3.29	3.30	3.24	3.24	3.19	3.30	3.28	3.27	3.30	3.28	3.26	3.26	3.25	
COP	kW/kW	3.99	3.99	3.93	3.85	3.81	3.75	3.94	3.87	3.85	4.00	3.92	3.87	3.85	3.83	
Rated input	Cooling	kW	31.40	34.00	35.60	38.00	39.60	42.00	42.40	44.70	46.30	47.60	49.80	52.10	53.70	55.30
	Heating	kW	29.80	31.60	33.60	35.80	37.80	40.00	39.70	42.40	43.90	43.80	46.50	49.10	50.60	52.20
Rated current	Cooling	A														
	Heating	A														
Refrigerant	Type	R410A														
	Charge volume	kg	12+16	16+16	16+16	16+16	16+16	16+16	16+22	16+22	16+22	22+22	22+22	22+22	22+22	22+22
Compressor	Type	Inverter scroll														
	Quantity	-	2+1	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2
Fan Motor	Quantity	2+1	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	2+2	
	Drive Type	-	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Airflow rate	m ³ /h	13980+25800	25800+25800				25800+27000				27000+27000					
Connecting pipe	Liquid Pipe	mm	φ19.05		φ19.05		φ19.05		φ19.05							
	Gas Pipe	mm	φ34.92		φ38.10		φ41.30									
Sound pressure level	dB(A)	48-66		50-67						50-68						
Outline dimension	mm	(1240+1500)x860x1710		(1500+1500)x860x1710				(1500+1900)x860x1710				(1900+1900)x860x1710				
Package dimension	mm	(1585+1300)x950x1950		(1585+1585)x950x1950				(1585+1985)x950x1950				(1985+1985)x950x1950				
Net weight	kg	430+290	430+430	430+430	430+430	430+430	430+430	488+430	488+430	488+430	488+488	488+488	488+488	488+488	488+488	
Gross weight	kg	440+300	440+440	440+440	440+440	440+440	440+440	498+440	498+440	498+440	498+498	498+498	498+498	498+498	498+498	
Maximum drive IDU NO.	unit	46	48	50	52	54	56	58	60	62	64	64	64	64		
Working temp.	Cooling	°C	-5~54°C													
	Heating	°C	-25~26°C													

Notes:

1. Cooling operating temperature range is from -5°C to 54°C, Heating operating temperature range is from -25°C to 26°C.
2. The cooling condition:indoor side 27°C (80.6°F) DB,19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition:indoor side 20°C (68°F) DB,15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level:measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions and lower as a result of ambient conditions when under ultra-silent operation
5. Choosing fuse or breaker according to MFA and electrical wiring according to MCA.
6. The above data may be changed without notice for future improvement on quality and performance.



MINI VRF

- Superior Technologies 32
- Specifications 36

Ultra Quiet Operation

Ten Major Ultra-silent Technologies

The scroll heating series adopt the all-round noise-reducing technology and newly-designed fan blade to reduce the airflow noise through the smooth suction structure, and the compressor noise isolation technology to implement ultra-silent operation, creating a high-quality and comfortable environment.

Newly-designed fan air duct with the streamlined distribution of the air discharge grilles can reduce the wind resistance and noise.



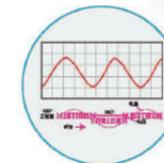
The PET (macromolecule acupuncture cotton), which is the kind of cotton specially used by high-speed railway to isolate noise, perfectly absorbs noises of all frequency bands.

CFD analogue simulation, together with the new fan blade, and the 4-blade axial flow design guarantee a better heat-exchanging performance and lower noise.



The DC brushless motor features stepless speed adjustment and more stable operation, achieving higher energy efficiency and reducing noises.

The 180° sine wave control technology applied to the compressor ensures the smooth and stable operation of compressor and effectively inhibits the abnormal noise during operation.



Advanced reactor can completely eliminate electromagnetic noise.



The compressor noise enclosure effectively avoids the proliferation of compressor noise.

Smart Night Silent Mode

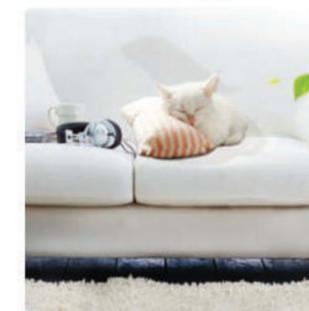
The system adopts the delay judgment mode based on the outdoor ambient temperature peak. Meanwhile, it will automatically determine whether to enter the night silent mode according to the current ambient temperature and load size. The minimum noise of silent operation can be as lower as 45 dB (A).

Forced Silent Mode

For supporting projects of high-rise buildings or sites with a stricter silent requirement, users can select the forced silent operation mode as required to reduce the operation noise of the unit and create a more quiet and comfortable environment.

Night Forced Silent Mode

For a higher requirements of quietness and higher requirements for silent mode at night, the night forced silent mode provides a more quiet environment under a variety of conditions.



Superior Technologies

Are you looking for a cozy room with less electricity used?

All DC Compliant Enhanced Vapor Injection Scroll Compressor

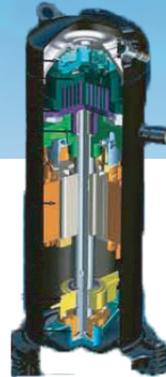
Three Core Technologies for Excellent Performance

Floating sealing ring technology improves compressor's starting performance

Patented enhanced vapor injection (EVI) technology

High-efficiency centralized stator winding improves motor rated efficiency to > 95%

3.4 mm-thick casing design



Variable volume ratio scroll technology substantially improves energy efficiency of compressor with low pressure ratio

6-pole permanent magnet motor Stable operation with 900-7200 RPM

Oil duct reduces oil circulation rate when compressor is working at high speed

Volumetric oil pump Oil pumped does not vary with oil level.

● C — All DC Inverter Technology

The secret of high energy efficiency

All DC inverter compressor, the core source of power, is equipped with a 6-pole high-efficiency motor, and the enhancement of part load efficiency is tailored to better suit the operations of low ambient temperature heating units.

6-pole reluctance-type DC motor



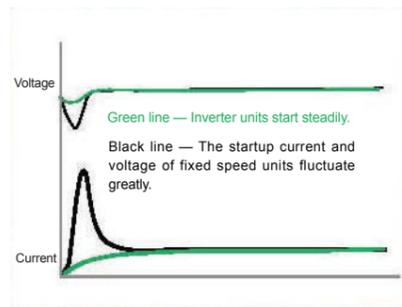
50% increase in magnetic force
Higher shaft rotating efficiency

● More applicable to regions with voltage fluctuation in power supply

The all DC inverter system starts flexibly, with the rotating speed of the compressor increasing steadily, the current rising slowly, and small impact on the power grid. Even under the condition of 160 V ultra-low voltage or 260 V ultra-high voltage, the system can still start and operate normally, and provide comfortable heating service.

VS

The fixed speed system starts the compressor instantly. The startup current of up to 6-7 times of the operating current may result in a sharp drop in power supply voltage, and lead to a failure of unit startup and the even more serious problems during peak periods.



● No heating capability attenuation at -20°C No cooling capability attenuation at 43°C

Enhanced Vapor Injection Technology — Strong Heating Capability Without Electric Auxiliary
Just like the difference between turbo supercharging and normal aspiration (2.0 T = 3.0 L)

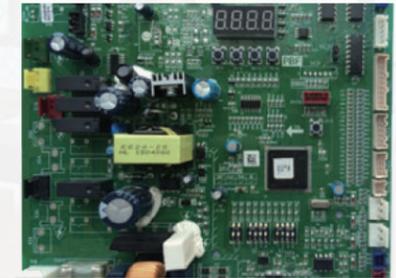
The world's most advanced technology for heat pump system dealing with low-temperature heating
The whole series adopt the high-efficiency EVI system and the new variable-frequency control and refrigerant system of King Air, achieving excellent heating performance even at the ultra-low temperature of -30°C. The heating capability is increased by over 45% and won't subside at -20°C. In hot summer, the cooling capability won't decrease even at 43°C, assuring you a cool summer indoors.



● Compact design

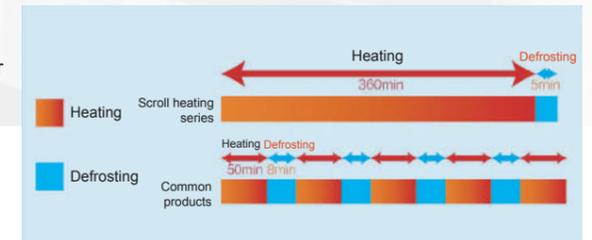
KING AIR scroll heating series of household central air conditioner feature a compact design with a single fan and three-layer high-efficiency and high-quality heat exchanger.

With a mini body, they can be easily installed in a small space such as a bay window, optimizing the spatial pattern and making your home more beautiful and fashionable.



● Smart and Quick Defrosting

The patented smart vapor injection defrosting technology of King Air can increase the refrigerant circulation flow during defrosting, which will shorten the defrosting time, reduce the cold air felt by customers during defrosting, improve the defrosting efficiency, and cut down the power consumption.



● Oil Return When Heating Without Stopping the Unit

Traditional units have to be turned off to achieve oil return, while King Air scroll heating series of household VRF units can implement heating without switching the direction of the refrigerant flow. This series adopt the modes of on-demand oil return and high/low frequency switchover oil return to prevent wild fluctuation of indoor temperature, and provide user with more comfortable experience.



Maximum actual length of single pipe	50m
Maximum equivalent length of single pipe	75 m
Maximum total equivalent pipe length	100m
Maximum drop of indoor/outdoor unit	30 m
Maximum drop of indoor unit	8 m
Maximum permitted length after first branch	15 m

* Pls consult the detailed technical documentation or other matters with the relative technicians.



Smart Home

Technology-driven intelligence for smarter life, be a real air conditioning messenger.



Mini VRF specification

Model			KIMS100AHT	KIMS125AHT	KIMS140AHT	KIMS160AHT	KIMS180AHT	KIMS180AHTA
Power Supply			220V-50Hz					380V-50Hz
Capacity	Cooling/Heating	kW	10.0/12.5	12.5/14.0	14.0/16.0	16.0/18.0	18.0/20.0	18.0/20.0
power consumption	Cooling/Heating	kW	2.9/3.0	3.1/3.2	3.8/4.1	4.7/4.5	5.4/5.3	5.4/5.3
EER		kW/kW	3.45	4.03	3.68	3.40	3.33	3.33
COP		kW/kW	4.17	4.38	3.90	4	3.77	3.77
Rated input	Cooling	kW	2.9	3.1	3.8	4.7	5.4	5.4
	Heating	kW	3.0	3.2	4.1	4.5	5.3	5.3
Rated current	Cooling	A	18	20	26	32	32	12
	Heating	A	16	18	24	28	28	11
Refrigerant	Type		R410A					
	Charge volume	kg	2.5	2.5	3.0	3.0	4.0	4.0
Compressor	Type	-	Scroll					
	Quantity	-	1	1	1	1	1	1
	Refrigerant oil charge volume	L	1.183	1.183	1.183	1.183	1.183	1.183
Fan	Type	-	Axial					
	Quantity	-	1				2	2
Airflow rate		m³/h	6000				6600	6600
Connecting pipe	Liquid/Gas	mm	9.52/15.88				9.52/19.05	9.52/19.05
Sound pressure level		dB(A)	50-54	50-55	52-55	53-56	57-59	57-59
Outline dimension		mm	W980*D390*H840				W980*D390*H1260	
Package dimension		mm	W1036*D482*H865				W1036*D482*H1285	
Weight	Net weight	kg	95				115	115
	Gross weight	kg	98				120	120
Indoor unit connecting	Capacity ratio	%	50-130					
	Maximum drive IDU.No.	unit	6	6	7	8	9	9
Equivalent connection pipe length	Max.total equivalent pipe length	m	100					
	Max.equivalent connection pipe length	m	75					
	Max.drop of indoor/outdoor unit	m	30 (indoor above 20m)					
	Max.drop of indoor unit	m	10					
Working temp. (°C)	Cooling	°C	-5-50					
	Heating	°C	-30-24					



IDU UNITS

- Round Flow Cassette 32
- Two-way Cassette 34
- One-way Cassette 35
- Ceiling & Floor 36
- Wall Mounted 37
- Slim Duct 38
- Standard Duct 39
- High ESP Duct 40
- Big Capacity Duct 41
- Fresh air Processor 42



		Optional		
Wireless	Wired	Wired	Wired	Centralized

● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
/	Standard	Standard (built-in)	Standard	Standard	/

● 360° air outlet, no blind spot



● Compact design, only 230mm height

Has slim body with 230mm height, it is specially suitable for low suspended ceiling rooms.



● Built-in drain pump, drain height can be 1200mm

Built-in with long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.



Model		KMCF028AB	KMCF036AB	KMCF045AB	KMCF050AB	KMCF056AB	KMCF063AB	KMCF071AB	KMCF080AB	KMCF090AB	KMCF100AB	KMCF112AB	KMCF125AB	KMCF140AB	KMCF160AB	
Capacity	Cooling	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
	Heating	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
Power supply	V/Ph/Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz									
Power input	W	55	55	70	70	75	75	90	90	150	150	150	190	190	210	
Air flow volume (H/M/L)	m³/h	750/660/540	810/690/540	900/720/600	900/720/600	960/780/660	960/780/660	1020/900/690	1200/1080/870	1500/1260/900	1620/1260/1020	1700/1360/1080	1800/1500/1200	1800/1500/1200	2100/1800/1500	
Sound pressure level (H/M/L)	dB(A)	32/30/25	32/30/25	36/33/31	36/33/31	36/33/31	36/33/31	39/36/33	39/36/33	42/39/35	42/39/35	42/39/35	44/40/35	44/40/35	44/40/36	
Fan	Type	—	Axial	Axial	Axial	Axial	Axial									
	Power output	W	26	26	30	30	30	30	37	37	50	50	65	65	65	
Fan motor	Insulation class	—	B	B	B	B	B	B	B	B	B	B	B	B	B	
	Liquid pipe	mm	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	
Connecting pipe	Gas pipe	mm	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	φ12.7	φ15.88	φ15.88	φ15.88	φ15.88	φ15.88	φ15.88	φ15.88	
	Connection method		Flared	Flared	Flared	Flared	Flared									
Drain pipe	External diameter	mm	DN25	DN25	DN25	DN25	DN25									
	Outline dimension (body)	mm	840*840*230	840*840*230	840*840*230	840*840*230	840*840*230	840*840*230	840*840*230	840*840*230	840*840*300	840*840*300	840*840*300	840*840*300	840*840*300	840*840*300
Outline dimension (panel)	mm	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	950*950*50	
Package dimension (body)	mm	930*930*300	930*930*300	930*930*300	930*930*300	930*930*300	930*930*300	930*930*300	930*930*300	930*930*370	930*930*370	930*930*370	930*930*370	930*930*370	930*930*370	
	Package dimension (panel)	mm	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90	1020*1020*90
Net weight	Body	kg	22.5	22.5	24.5	24.5	24.5	24.5	24.5	24.5	29.5	29.5	29.5	29.5	32	32
	Panel	kg	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Gross weight	Body	kg	24.5	24.5	26.5	26.5	26.5	26.5	26.5	26.5	31.5	31.5	31.5	31.5	34	34
	Panel	kg	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

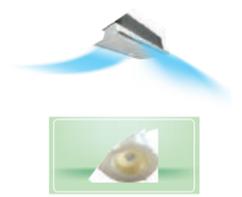
- Notes:
- Power supply: 220V/1PH for 50Hz
 - The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
 - The heating condition: indoor side 20°C (68°F) DB, 15°C (44.8°F) WB outdoor side 7°C (42.8°F) DB
 - Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 - The above data may be changed without notice for future improvement on quality and performance.



Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
/	Standard	Standard (External)	Standard	Standard	/

Special design for corridor or narrow and long room



Available for room with 3.5m floor height



Built-in drain pump, drain height can be 1200mm

Built-in with long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.



Model		KMCD028A	KMCD036A	KMCD045A	KMCD056A	KMCD071A	KMCD080A	KMCD090A	KMCD100A	KMCD112A	KMCD125A	KMCD140A	
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0
	Heating	kW	3.2	4.0	5.0	6.3	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Power supply	V/Ph/Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz							
Power input	W	60	62	68	85	94	98	129	135	175	185	268	
Air flow volume (H/M/L)	m³/h	500/426/376	616/523/462	773/657/580	900/765/657	1165/990/873	1300/1120/980	1450/1310/1160	1600/1450/1280	1725/1550/1280	1980/1680/1500	1980/1680/1500	
Sound pressure level (H/M/L)	dB(A)	37/31/25	39/36/32	43/37/31	45/41/39	47/43/40	49/45/42	45/42/38	46/43/40	50/48/43	53/50/46	53/50/46	
Fan	Type	—	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	
	Power output	W	10	12	16	25	30	30	20*2	25*2	30*2	45*2	
Fan motor	Insulation class	—	B	B	B	B	B	B	B	B	B	B	
	Liquid pipe	mm	φ6.35	φ6.35	φ6.35	φ6.35	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52	
Connecting pipe	Gas pipe	mm	φ12.70	φ12.70	φ12.70	φ12.70	φ15.88	φ15.88	φ15.88	φ15.88	φ15.88	φ15.88	
	Connection method		Flared	Flared	Flared	Flared	Flared	Flared	Flared	Flared	Flared	Flared	
Drain pipe	External diameter	mm	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN20	DN20	
	Outline dimension (body)	mm	840*520*315	840*520*315	960*520*315	960*520*315	1200*520*315	1200*520*315	1680*520*315	1680*520*315	1680*520*315	1680*520*315	
Outline dimension (panel)	mm	1083*630*33	1083*630*33	1203*630*33	1203*630*33	1443*630*33	1443*630*33	1923*630*33	1923*630*33	1923*630*33	1923*630*33		
Package dimension (set)	mm	1145*685*395	1145*685*395	1265*685*395	1265*685*395	1505*685*395	1505*685*395	1983*685*395	1983*685*395	1983*685*395	1983*685*395		
Net weight	kg	32	32	37	37	40	40	45	45	47	47		
Gross weight	kg	35	35	40	40	43	43	48	48	50	50		

- Notes:
- Power supply: 220V/1PH for 50Hz
 - The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
 - The heating condition: indoor side 20°C (68°F) DB, 15°C (44.8°F) WB outdoor side 7°C (42.8°F) DB
 - Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 - The above data may be changed without notice for future improvement on quality and performance.



Optional				
Wireless	Wired	Wired	Wired	Centralized

Optional				
Wireless	Wired	Wired	Wired	Centralized

● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
/	Standard	Standard External	Standard	Standard	/

● Horizontal and vertical air flow



● Built-in drain pump, drain height can be 1200mm

Built-in with long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.



● Compact design, unit height only 250mm

Model		KMCS028A	KMCS036A	KMCS045A	KMCS056A	KMCS071A	
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
	Heating	kW	3.2	4.0	5.0	6.3	8.0
Power supply		V/Ph/Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz
Power input		W	40	40	45	45	50
Air flow volume (H/M/L)		m ³ /h	510/410/310	600/480/360	720/570/450	910/830/700	1000/850/750
Sound pressure level (H/M/L)		dB(A)	36/34/30	38/28/26	42/39/35	45/41/39	47/43/40
Fan	Type	—	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Fan motor	Power output	W	10	18	25	30	30
	Insulation class	—	B	B	B	B	B
Connecting pipe	Liquid pipe	mm	φ6.35	φ6.35	φ6.35	φ6.35	φ9.52
	Gas pipe	mm	φ12.70	φ12.70	φ12.70	φ12.70	φ15.88
	Connection method		Flared	Flared	Flared	Flared	Flared
Drain pipe	External diameter	mm	DN20	DN20	DN20	DN20	DN20
	Outline dimension (body)	mm	870*460*250	870*460*250	870*460*250	1180*495*290	1180*495*290
Outline dimension (panel)		mm	1070*520*33	1070*520*33	1070*520*33	1380*550*33	1380*550*33
Package dimension (set)		mm	1135*625*355	1135*625*355	1135*625*355	1445*655*395	1445*655*395
Net weight		kg	25	27	27	39	39
Gross weight		kg	27.5	29.5	29.5	42	42

Notes:

1. Power supply: 220V/1PH for 50Hz
2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
5. The above data may be changed without notice for future improvement on quality and performance.

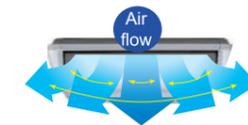
● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
/	/	Standard External	/	Standard	/

● Flexible installation, on the floor or on the ceiling



● Automatic horizontal and vertical air flow



● One sided access hole, easy for maintenance

Model		KMVX028A	KMVX036A	KMVX056A	KMVX071A	KMVX090A	KMVX112A	KMVX125A	KMVX140A	
Capacity	Cooling	kW	2.8	3.6	5.6	7.1	9.0	11.2	12.5	14.0
	Heating	kW	3.2	4.0	6.3	8.0	10.0	12.5	14.0	16.0
Power supply		V/Ph/Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz
Power input		W	48	62	85	120	156	210	240	240
Air flow volume (H/M/L)		m ³ /h	450/360/280	600/480/370	820/700/570	1100/980/850	1470/1280/1060	1800/1550/1250	2000/1680/1350	2000/1680/1350
Sound pressure level (H/M/L)		dB(A)	42/39/36	43/40/38	45/42/40	47/44/41	49/46/42	50/47/44	51/48/45	51/48/45
Fan	Type	—	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Fan motor	Power output	W	35	35	35	60	60	80	80	120
	Insulation class	—	B	B	B	B	B	B	B	B
Connecting pipe	Liquid pipe	mm	φ6.35	φ6.35	φ6.35	φ9.52	φ9.52	φ9.52	φ9.52	φ9.52
	Gas pipe	mm	φ12.70	φ12.70	φ12.70	φ15.88	φ15.88	φ15.88	φ15.88	φ15.88
	Connection method		Flared	Flared	Flared	Flared	Flared	Flared	Flared	Flared
Drain pipe	External diameter	mm	φ25	φ25	φ25	φ25	φ25	φ25	φ25	φ25
	Outline dimension	mm	905*673*243	905*673*243	905*673*243	1288*673*243	1288*673*243	1672*673*243	1672*673*243	1672*673*243
Package dimension		mm	1000*756*383	1000*756*383	1000*756*383	1383*756*383	1383*756*383	1767*756*383	1767*756*383	1767*756*383
Net weight		kg	28	28	30	40	40	45	45	45
Gross weight		kg	31	31	33	43	43	48	48	48

Notes:

1. Power supply: 220V/1PH for 50Hz
2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
5. The above data may be changed without notice for future improvement on quality and performance.



Wall mounted

Optional			
Wireless	Wired	Wired	Centralized
	/	/	



Slim duct

Wireless	Wired	Optional Wired	Wired	Centralized



● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
/	Standard	Standard built-in	/	Standard	/

● Low noise design

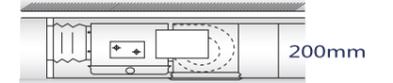
Model		KMVW028AB	KMVW036AB	KMVW040AB	KMVW056AB	KMVW063AB	KMVW071AB
Capacity	Cooling	kW 2.8	3.6	4.0	5.6	6.3	7.1
	Heating	kW 3.0	4.3	4.5	6.0	7.1	8.0
Power supply		V/Ph/Hz 220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz
Power Input		W 65	65	70	70	82	82
Air flow volume(H/M/L)		m³/h 800/700/600	800/700/600	850/750/650	850/750/650	1200/950/860	1200/950/860
Sound pressure level(H/M/L)		dB(A) 40/36/32	40/36/32	45/41/35	45/41/35	48/45/38	48/45/38
Fan	Type	-	Cross-flow fan				
	Quantity	-	1	1	1	1	1
	Speed (H/M/L)	rpm 1100/1000/900	1100/1000/900	1100/1000/900	1100/1000/900	1100/1000/900	1100/1000/900
Fan motor	Power Input	W 30	30	30	30	50	50
	Insulation class	-	B	B	B	B	B
Connecting pipe	Liquid Pipe	mm φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35
	Gas Pipe	mm φ12.70	φ12.70	φ12.70	φ12.70	φ15.88	φ15.88
	Connection method	Flared	Flared	Flared	Flared	Flared	Flared
Drain pipe	External dia.	mm DN20	DN20	DN20	DN20	DN20	DN20
	Outline dimension	mm 970x315x235	970x315x235	970x315x235	970x315x235	1100x330x235	1100x330x235
Package dimension		mm 1010x370x300	1010x370x300	1010x370x300	1010x370x300	1140x385x300	1140x385x300
Net Weight		kg 13.5	13.5	14.5	14.5	16	16
Gross weight		kg 17.5	17.5	18.5	18.5	20	20

Notes:
 1. Power supply: 220V/1PH for 50Hz
 2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
 3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
 4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 5. The above data may be changed without notice for future improvement on quality and performance.

● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
Standard	/	Standard (built-in)	Standard (built-in)	Standard	/

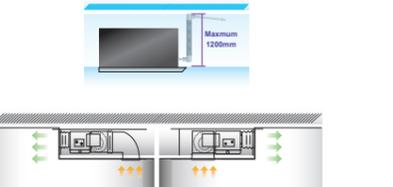
● Compact design, only 200mm height



● Low noise, minimum 23dB(A)

● Built-in drain pump, drain height can be 1200mm

Built-in with long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.

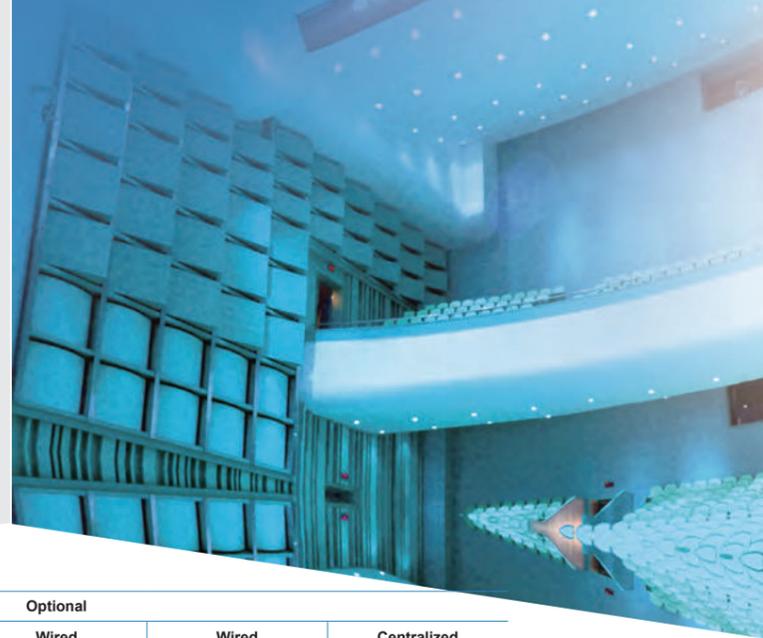


● Left and right drain pipe options

● Flexible air return

Model		KMDN 022AC	KMDN 025AC	KMDN 028AC	KMDN 032AC	KMDN 036AC	KMDN 040AC	KMDN 045AC	KMDN 050AC	KMDN 056AC	KMDN 063AC	KMDN 071AC
Capacity	Cooling	kW 2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
	Heating	kW 2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Power supply		V/Ph/Hz 220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz	220V/1Ph/50Hz
Power input		W 54	54	54	55	55	55	77	77	77	100	105
Air flow volume (H/M/L)		m³/h 500/370/310	500/370/310	500/370/310	560/430/360	560/430/360	560/430/360	750/620/550	750/620/550	750/620/550	920/710/590	1000/800/680
ESP		Pa 10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)	10(30)
Sound pressure level (H/M/L)		dB(A) 33/28/23	33/28/23	33/28/23	33/28/24	33/28/24	33/28/24	35/30/28	35/30/28	35/30/28	36/32/28	37/32/29
Fan	Type	—	Centrifugal									
	Speed (H/M/L/SL)	rpm 1180/1050/820/760	1180/1050/820/760	1180/1050/820/760	1220/1080/880/810	1220/1080/880/810	1220/1080/880/810	1250/1010/810/720	1250/1010/810/720	1250/1010/810/720	1300/1030/850/720	1320/1150/1000/880
Fan motor	Power output	W 26	26	26	26	26	26	40	40	40	60	60
	Insulation class	—	B	B	B	B	B	B	B	B	B	B
Connecting pipe	Liquid pipe	mm φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ6.35	φ9.52
	Gas pipe	mm φ9.52	φ9.52	φ9.52	φ12.7	φ15.88						
	Connection method	Flared	Flared	Flared	Flared	Flared	Flared	Flared	Flared	Flared	Flared	Flared
Drain pipe	External diameter	mm φ25	φ25	φ25	φ25	φ25	φ25	φ25	φ25	φ25	φ25	φ25
	Outline dimension	mm 700*450*200	700*450*200	700*450*200	700*450*200	700*450*200	700*450*200	920*450*200	920*450*200	920*450*200	1140*450*200	1140*450*200
Package dimension		mm 931x543x255	931x543x255	931x543x255	931x543x255	931x543x255	931x543x255	1151x543x255	1151x543x255	1151x543x255	1371x543x255	1371x543x255
Net weight		kg 17.5	17.5	17.5	17.5	17.5	17.5	20.5	20.5	20.5	28	28
Gross weight		kg 20.5	20.5	20.5	20.5	20.5	20.5	20.5	21.5	21.5	21.5	32

Notes:
 1. Power supply: 220V/1PH for 50Hz
 2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
 3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
 4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 5. The above data may be changed without notice for future improvement on quality and performance.



	Wireless	Wired	Optional Wired	Wired	Centralized

● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
Standard	/	Standard (built-in)	Standard (built-in)	Standard	/

● Simple design, short body, easy to install

● Built-in drain pump, drain height can be 1200mm

Built-in with long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.



Model	KMDN 022AB	KMDN 025AB	KMDN 028AB	KMDN 032AB	KMDN 036AB	KMDN 040AB	KMDN 045AB	KMDN 050AB	KMDN 056AB	KMDN 063AB	KMDN 071AB	KMDN 080AB	KMDN 090AB	KMDN 100AB	KMDN 112AB	KMDN 125AB	KMDN 140AB	KMDN 160AB				
Capacity																						
Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0			
	kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0			
Heating																						
Power supply	V/Ph/Hz	220V/1Ph/50Hz																				
Power Input	W	60	60	60	80	80	80	95	95	95	95	144	170	230						303		
Air flow volume (H/M/L)	m ³ /h	540/450/350			700/600/500			900/800/700			1100/1000/900		1300/1150/950		1600/1400/1200		2000/1700/1400					
ESP	Pa	15(0/30/50)						30(15/50/70)						50(15/30/70)								
Sound pressure level (H/M/L)	dB(A)	32/28/24			34/31/28			36/33/30			37/34/31			40/37/33		42/39/35		44/41/39				
Fan	Type	Centrifugal																				
Fan motor	Power Output	W	25	25	25	40	40	40	50	50	55	55	80	35+55	35+80	60+125	60+125	60+125	60+125			
	Insulation class		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B			
Connecting pipe	Gas Pipe	mm	φ12.70						φ15.88													
	Liquid Pipe	mm	φ6.35						φ9.52													
Drain pipe	Connection method	Flared																				
	External diameter	mm	DN25																			
Outline dimension	mm	880*515*250						1050*515*250						1350*515*250			1350*557*292					
Package dimension	mm	1080*600*280						1250*600*280						1550*600*280			1550*640*320					
Net Weight	kg	28						31			33			38			43			48		
Gross weight	kg	34						37			39			45			50			56		

- Notes:
- Power supply: 220V/1PH for 50Hz
 - The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
 - The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
 - Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 - The above data may be changed without notice for future improvement on quality and performance.

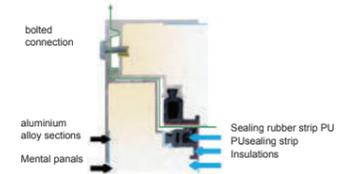
● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
Standard	Standard	Standard (Built-in)	/	Standard	/

● Labyrinth patent design, air leakage rate lower to 0.029%

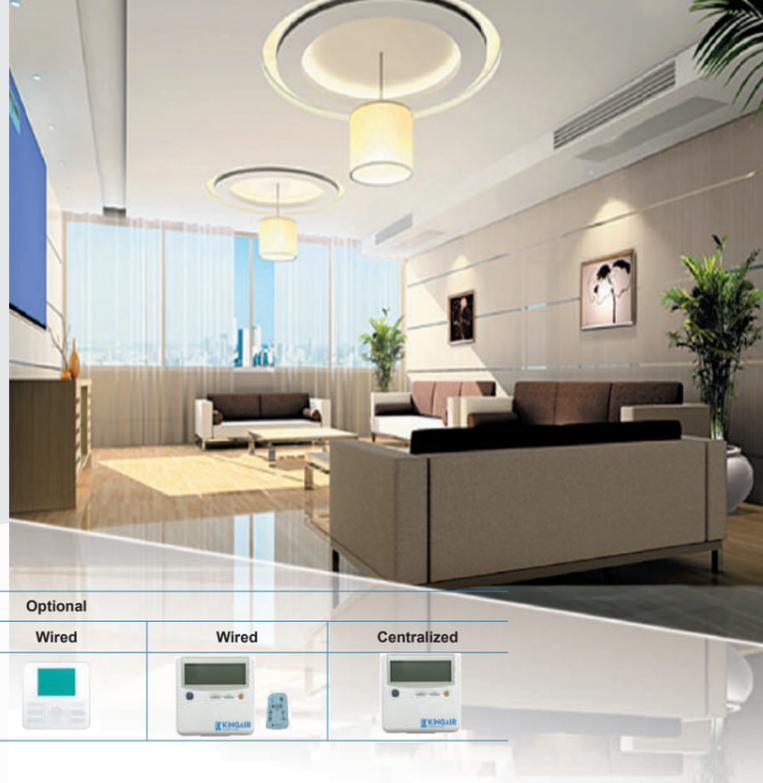
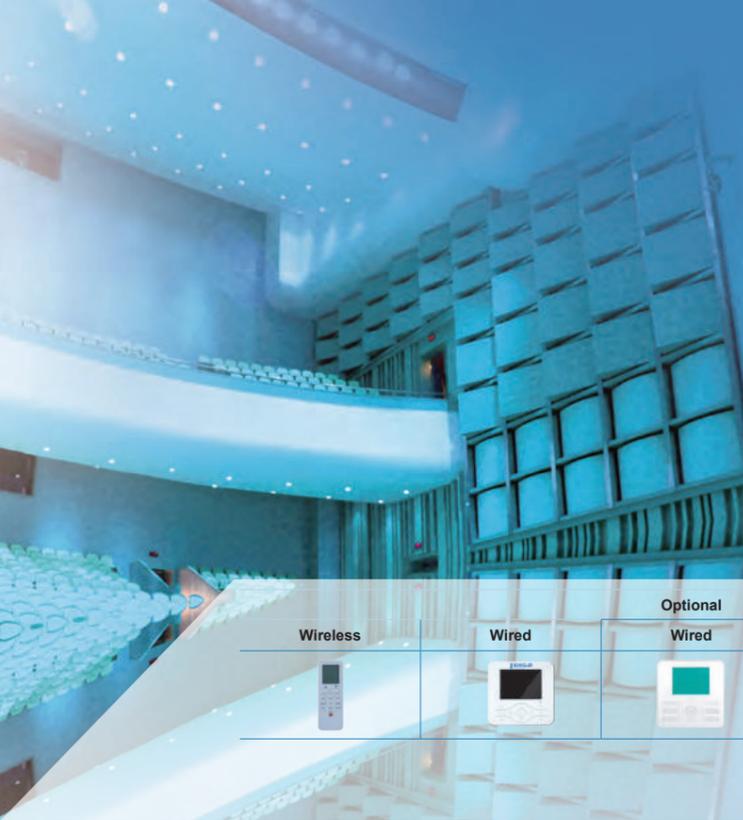
● 300Pa high static pressure, suitable for large space

● Purification section as optional



Model	KMDH100AB	KMDH112AB	KMDH125AB	KMDH140AB		
Capacity	Cooling	kW	10.0	11.2	12.5	14.0
	Heating	kW	11.2	12.5	14.0	16.0
Power supply	V/Ph/Hz	220V/1Ph/50Hz				
Power input	W	400	420	500	550	
Air flow volume (H/M/L)	m ³ /h	1800/1450/1050	2000/1600/1300	2250/1800/1450	2700/2150/1750	
ESP	Pa	50(100)	50(100)	50(100)	50(100)	
Sound pressure level (H/M/L)	dB(A)	49/46/42	49/46/42	51/47/43	51/47/43	
Fan	Type	Centrifugal				
	Quantity	2				
Fan motor	Power output	W	200	200	250	250
	Insulation class	B				
Connecting pipe	Liquid pipe	mm	φ9.52	φ9.52	φ9.52	φ9.52
	Gas pipe	mm	φ15.88	φ15.88	φ15.88	φ15.88
Drain pipe	Connection method	Flared				
	External diameter	mm	φ25	φ25	φ25	φ25
Outline dimension	mm	1200*750*390				
Package dimension	mm	1270*820*430				
Net weight	kg	62				
Gross weight	kg	65				

- Notes:
- Power supply: 220V/1PH for 50Hz
 - The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
 - The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
 - Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 - The above data may be changed without notice for future improvement on quality and performance.



Wireless	Wired	Optional Wired	Wired	Centralized

Wireless	Wired	Optional Wired	Wired	Centralized

● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
/	Standard	Standard (built-in)	/	KMDH195/255AI	KMDH410-790AI

- Labyrinth patent design, air leakage rate lower to 0.029%
- 300Pa high static pressure, suitable for large space
- Purification section as optional



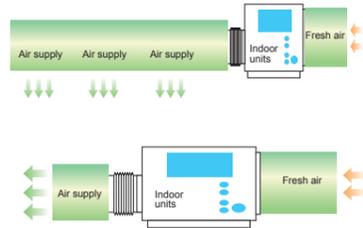
Model			KMDH195AI	KMDH255AI	KMDH410AI	KMDH520AI	KMDH620AI
Capacity	Cooling	kW	19.5	25.5	41.0	52.0	62.0
	Heating	kW	20.4	28.5	41.5	55.0	68.0
Power supply	V/Ph/Hz		220V/1Ph/50Hz	220V/1Ph/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz
Power input	W		1320	1320	2640	2640	4480
Air flow volume	m³/h		4300	4800	7500	9000	11000
ESP	Pa		200	200	250	250	300
Sound pressure level	dB(A)		54	54	55	57	60
Fan	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Fan motor	Insulation class		B	B	B	B	B
Connecting pipe	Liquid pipe	mm	φ12.7	φ12.7	φ15.88	φ15.88	φ19.05
	Gas pipe	mm	φ22.23	φ22.23	φ28.60	φ28.60	φ31.80
	Connection method		Welding	Welding	Welding	Welding	Welding
Drain pipe	External diameter	mm	DN32	DN32	DN32	DN32	DN32
Outline dimension	mm		1451*1204*608		1951*1604*808		2293*1604*1008
Package dimension	mm		1451*1204*608		1951*1604*808		2293*1604*1008
Net weight	kg		150		275		325
Gross weight	kg		152		277		327

Notes:
 1. Power supply: 220V/1PH for 50Hz
 2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
 3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
 4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 5. The above data may be changed without notice for future improvement on quality and performance.

● Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC Motor
/	Standard	Standard (built-in)	/	Standard	/

- 300Pa high static pressure, suitable for large space
- Flexible air outlet
- Automatic fresh air introduction, improve room air quality



Model			KMDF 175A-022	KMDF 210A-020	KMDF 250A-015	KMDF 250A-020	KMDF 250A-030	KMDF 300A-020	KMDF 400A-020	KMDF 400A-030	KMDF 500A-020	KMDF 500A-030	KMDF 600A-020	KMDF 600A-030
Capacity	Cooling	kW	25.0	28.0	28.0	28.0	28.0	28.0	45.0	45.0	56.0	56.0	56.0	56.0
	Heating	kW	14.0	17.4	17.4	17.4	17.4	17.4	28.0	28.0	35.0	35.0	35.0	35.0
Power supply	V/Ph/Hz		220V/1Ph/50Hz	220V/1Ph/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz	380V/3N/50Hz
Power input	W		630	700	480	560	790	750	880	1290	1000	1400	1350	1700
Air flow volume	m³/h		1750	2100	2500	2500	2500	3000	4000	4000	5000	5000	6000	6000
ESP	Pa		220	200	150	200	300	200	200	300	200	300	200	300
Sound pressure level	dB(A)		49	49	52	55	58	56	59	62	62	65	62	65
Fan	Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal						
Fan motor	Power input	W	630	700	480	560	790	750	880	1290	1000	1400	1350	1700
	Insulation class		B	B	B	B	B	B	B	B	B	B	B	B
Connecting pipe	Liquid pipe	mm	φ12.70	φ12.70	φ15.88	φ15.88	φ15.88	φ15.88						
	Gas pipe	mm	φ22.23	φ22.23	φ22.23	φ22.23	φ22.23	φ22.23	φ28.58	φ28.58	φ28.58	φ28.58	φ28.58	φ28.58
	Connection method		Welding	Welding	Welding	Welding	Welding	Welding						
Drain pipe	External diameter	mm	DN25	DN25	DN25	DN25	DN25	DN25						
Outline dimension	mm		1300*820*500	1300*820*500	1300*820*500	1300*820*500	1300*820*500	1300*820*500	1650*850*665	1650*850*665	2000*850*665	2000*850*665	2000*850*665	2000*850*665
Package dimension	mm		1360*830*510	1360*830*510	1360*830*510	1360*830*510	1360*830*510	1360*830*510	1767.5*946*848	1767.5*946*848	2117.5*946*848	2117.5*946*848	2117.5*946*848	2117.5*946*848
Net weight	kg		75	75	75	75	75	75	140	140	165	165	165	165
Gross weight	kg		80	80	80	80	80	80	160	160	185	185	185	185

Notes:
 1. Power supply: 220V/1PH for 50Hz
 2. The cooling condition: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB outdoor side 35°C (95°F) DB
 3. The heating condition: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB outdoor side 7°C (42.8°F) DB
 4. Sound level: measured at point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 5. The above data may be changed without notice for future improvement on quality and performance.

INTELLIGENT CONTROL

- Centralized Control 45
- Implementing Intelligent Control 45
- Household-based Charging 46
- Building Management System (BMS) 47

Controller	Model	Image	Four-way Cassette	One-way Sasette	Two-way Cassette	Slim Low ESP Duct	Standard Duct	High ESP Duct	Big Capacity Dcut	Fresh Air Unit	Floor Ceiling	Wall Mounted
			KMCF	KMCS	KMCD	KMDN	KMDN	KMDH	KMDH	KMDF	KMVX	KMVW
Wireless Controller	KMC311B		○	○	○	○	○	○	○	○	○	○
Signal Receiver	KSA-R01		/	/	/	○	○	○	○	○	/	/
Wired Controller	KMC315D		○	○	○	○	○	○	○	○	○	/
	KMC312E		○	○	○	○	○	○	○	○	○	/
Zone Controller	KMC309B		○	○	○	○	○	○	○	○	○	/
Centralized Controller	KMC308B		○	○	○	○	○	○	○	○	○	○

Note: ● Means Standard, ○ Means Optional

Centralized Control

Remote centralized controller

- Able to implement centralized control or separate control on 64 IDUs in 8 systems
- Mode locking and single unit query/all control functions
- Setting operation start and end time of air conditioner
- Fault indication, uniform control interface and humanized operation interface
- Mode switching
- Supporting the longest control signal line of 1000 m
- Operating status monitoring function
- Fault code display function



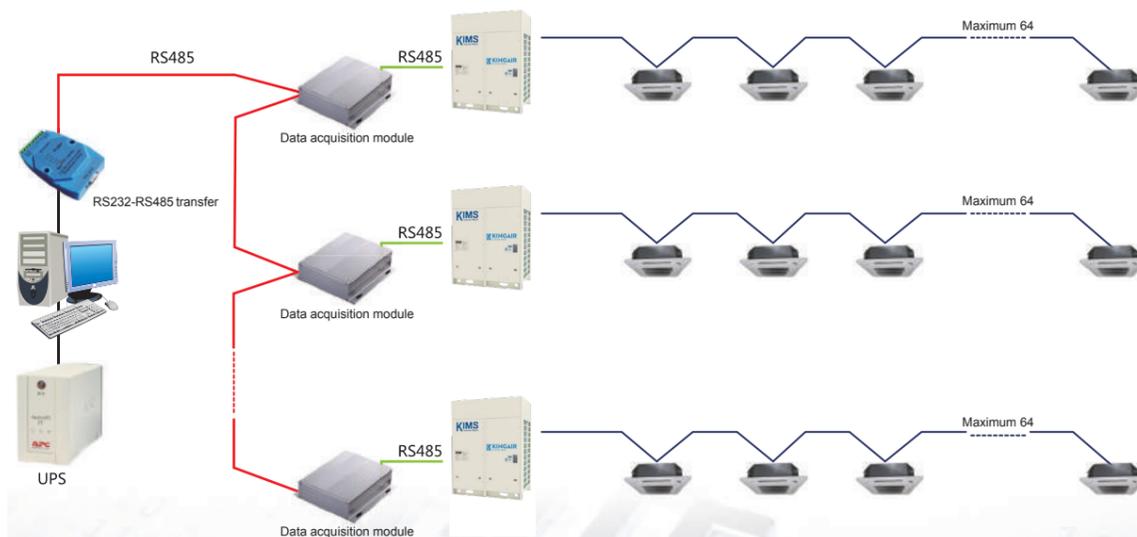
Centralized control

Intelligent Management Software

Intelligent Management Software

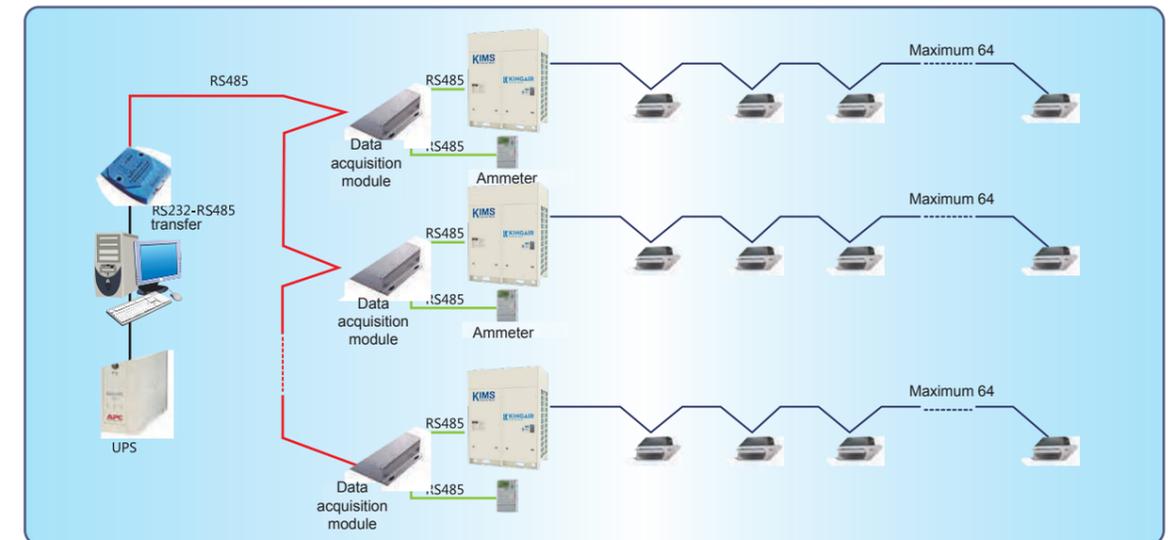
The IDUs are connected to a computer so that full automatic control can be implemented on the system through the computer. The control function is powerful, and operations are simple and clear. One set of intelligent management system can connect to 32 sets of systems and 2048 IDUs at most, and realize large scale centralized control.

- Free grouping and zone management
- Perfect schedule management function
- Historical data record
- Schedule control function of week/month/year
- Single-unit or centralized operation, shutdown, temperature setting, mode switching, etc.
- The air conditioning systems of multiple buildings can be controlled in a centralized manner at the same place
- Permission setting
- Temperature control, time switch
- Fault code display function
- Interlock control
- Remote management



Electricity Charge Distribution Software

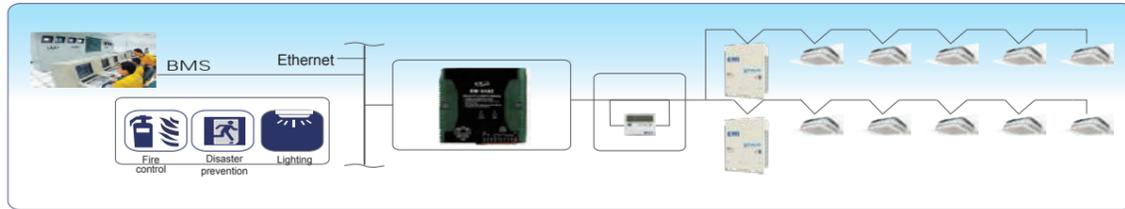
- Electricity Charge Distribution Software provides the complete unit monitoring and control functions and can realize all-dimensional dynamic monitoring on the ODU operating status.
- Network control is realized for a maximum of 2048 IDUs, and the control signal of the data acquisition module can reach the maximum distance of 1200 m.
- The cooling system topology map can be set and displayed visually.
- The market-tested electricity fee distribution algorithm implements convenient electricity fee distribution management, and detailed historical data forms can be generated.
- Users, electricity prices and groups can be set so that the user can realize flexible management on household-based charging of VRF units.
- System energy saving settings:
 - ① Operating status monitoring function
 - ② Fault code display function



Building Management System (BMS)

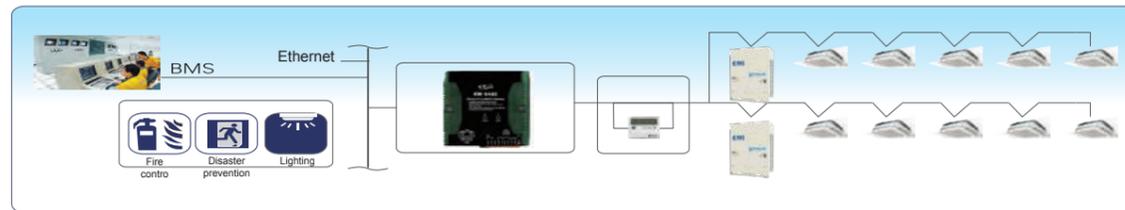
KIMS adopts multiple automatic control systems to access the building automation system easily, and full automatic control of the system is realized through the computer. The control function is powerful, and operations are simple and clear.

LonWorks system



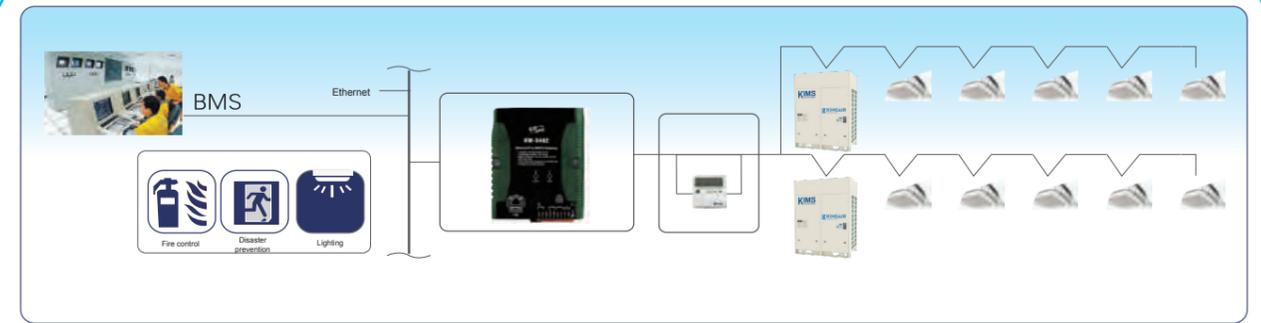
- Connecting to a maximum of 1024 IDUs and 16 sets of ODUs
- Powering on/off the air conditioner, controlling operation, and monitoring the operating status
- Monitoring the IDU fault code
- Monitoring and setting the IDU temperature
- Monitoring and switching the operating mode
- Setting remote controller permissions
- Free grouping and zone management
- Perfect schedule management function
- Historical data recordn
- Schedule control function of week/month/year
- Single-unit or centralized operation, shutdown, temperature setting, mode switching, etc.
- Interlock control (fire alarm, door lock, fault, etc.)

BACnet system



- Connecting to a maximum of 1024 IDUs and 16 sets of ODUs
- Powering on/off the air conditioner, controlling operation, and monitoring the operating status
- Monitoring the IDU fault code
- Monitoring and setting the IDU temperature
- Monitoring and switching the operating mode
- Setting remote controller permissions
- Service monitoring
- Automatic unit operation according to settings
- Shielding function of the user's air conditioner controller
- Free grouping and zone management
- Perfect schedule management function
- Historical data record
- Schedule control function of week/month/year
- Single-unit or centralized operation, shutdown, temperature setting, mode switching, etc.
- Interlock control (fire alarm, door lock, fault, etc.)

ModBus system



- Connecting to a maximum of 1024 IDUs and 16 sets of ODUs
- Powering on/off the air conditioner, controlling operation, and monitoring the operating status
- Monitoring the IDU fault code
- Monitoring and setting the IDU temperature
- Monitoring and switching the operating mode
- Setting remote controller permissions
- Service monitoring
- Automatic unit operation according to settings
- Shielding function of the user's air conditioner controller
- Free grouping and zone management
- Perfect schedule management function
- Historical data record
- Schedule control function of week/month/year
- Single-unit or centralized operation, shutdown, temperature setting, mode switching, etc.
- Interlock control (fire alarm, door lock, fault, etc.)

● Intelligent Interlock for Hotels

The specially designed seamless connection interface for hotel door card can be selected in the application scenarios such as hotels. When the door card is inserted, the IDU can be controlled freely; when the door card is removed, the IDU is turned off automatically after a delay, making hotel management convenient and saving power.



● Intelligent Diagnosis/Debugging/Upgrade Function ("Black Box")

The "Black Box" data saving device is provided so that the data related to unit operation can be read conveniently during after-sales maintenance and debugging, greatly enhancing the convenience of maintenance and debugging.

When the system program needs to be upgraded, save the IDU and ODU control program in a USB drive, and insert the USB drive into the reserved USB interface of the main board. Then, the system control program can be upgraded through simple and intelligent button operations.



KING AIR VRF Unit Cleaning Technology



"Fresh and clean" series return air purifiers

Return Air Purifiers

● Characteristics:

- High-grade fashionable appearance design and first-class surface process and texture.
- Installation and maintenance are convenient. KING AIR provides six types of standard dimensions, meeting your different decoration requirements.
- The air flow range is wide, from 340 m³/h to 2400 m³/h, meeting the requirements of different occasions.
- Wide application scope: The purifiers can be used together with fan coils, VRF units, and commercial IDUs.
- Low wind resistance: The minimum resistance of air return unit is 8 Pa, and the IDU air return is not affected as clean air is produced.

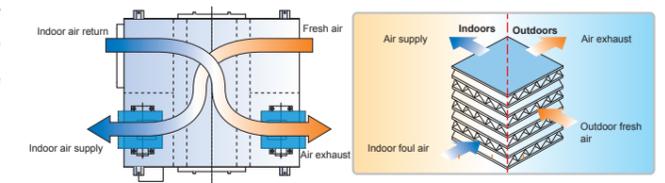
● Specification of Return Air Purifiers

Model	KRP070BPF	KRP090BPF	KRP100BPF	KRP110BPF	KRP160BPF	KRP220BPF
Rated Air Volume	540	900	1000	1100	1300	1700
Air Volume Range	340-700	700-900	340-1000	900-1100	950-1700	1300-2400
Outline dimension	386*276*54	1046*276*54	548*548*54	1246*276*54	1396*276*54	1546*276*54

Fresh Air Ventilator

● Fresh Air Ventilator

The fresh air ventilator is a fresh air product of recovering exhaust heat energy and reusing it for air supply. The fresh air and exhausted air flow through the heat exchanger crosswise and implement temperature and humidity exchange in the fresh air ventilator. In this way, the fresh air recovers the majority of energy from the air exhausted from the air conditioner, saving energy and reducing consumption.



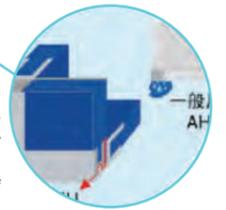
● Fresh Air Ventilators of Standard Series



Patent structure with a low air leakage rate

The joints of cabinet adopt aluminum profiles with concave and convex grooves, which form a labyrinth-type patent sealing structure together with fastening bolts and nuts, reducing the air leakage rate to 0.029% and ensuring lower operation cost.

Eradicating cold bridge and rust



All the metals in the cabinet are isolated from external metals using polyurethane foam and specially designed sealing strips, avoiding the thermal insulation strip that must be stuck for ordinary products to prevent condensation, putting to an end to the water dripping problem of cold bridge, and also reducing the unit noise.



The built-in full heat core heat exchanger achieves higher heat exchange efficiency, the maximum temperature efficiency of 70%, and the maximum enthalpy efficiency of 60%.

High efficiency and energy conservation



The direct drive fan is adopted and does not need to be maintained. Only the filter screen needs to be cleaned regularly.

Safe and reliable

Model	Air volume (m³/h)	ESP (Pa)		Cooling (%)		Heating (%)		Motor input power(kW)		Noise dB(A)	Rated voltage (V)
		Air supply	Air exhaust	Temperature recovery efficiency	Enthalpy recovery efficiency	Temperature recovery efficiency	Enthalpy recovery efficiency	Air supply	Air exhaust		
KFD010FC	1000	90	90	61	52	72	60	0.20	0.20	53	220V - 50Hz
KFD015FC	1500	110	110	59	51	71	59	0.30	0.30	53	220V - 50Hz
KFD020FC	2000	120	120	61	53	73	61	0.45	0.45	55	220V - 50Hz
KFD025FC	2500	110	110	58	50	70	58	0.55	0.55	56	380V 3N - 50Hz
KFD030FC	3000	100	100	59	51	71	59	0.55	0.55	58	380V 3N - 50Hz
KFD040FC	4000	110	110	57	50	69	58	1.00	1.00	59	380V 3N - 50Hz
KFD050FH	5000	100	100	57	50	69	58	1.50	1.50	62	380V 3N - 50Hz
KFD060FH	6000	100	100	59	51	71	59	0.55x2	0.55x2	62	380V 3N - 50Hz
KFD080FH	8000	110	110	57	50	69	58	1.00x2	1.00x2	63	380V 3N - 50Hz
KFD105FH	10500	100	100	57	50	69	58	1.50x2	1.50x2	66	380V 3N - 50Hz

Fresh Air Ventilators of Medium-sized High-end Series

Characteristics:

The air flow range is 1000 m³/h~6000 m³/h, applicable to sites such as homes, conference rooms, labs, offices, equipment rooms, restaurants, and gyms. The installation is convenient. The machine is installed in the ceiling, without occupying the indoor effective space. More complete functions are implemented, including bidirectional ventilation, air purification, and energy recovery. The sheet metal structure is designed, with thermal insulation cotton stuck inside.



Model	Fresh air volume (m³/h)	ESP (Pa)	Enthalpy recovery efficiency (%)		Temperature recovery efficiency (%)		Sound pressure level dB(A)	Power input (W)	Current (A)	Rated voltage (V)	Net weight (kg)	Outline dimension (mm)
			Cooling	Heating	Cooling	Heating						
KRD100	850/1000/1000	85/95/120	53/51/51	71/67/67	75/70/70	85/82/82	42/44/45	490/520/550	2.2/2.4/2.7	220	100	1264*1214*388
KRD150	1400/1500/1500	95/110/160	53/51/51	63/62/62	75/70/70	78/77/77	47/50/51	750/860/920	3.5/3.9/4.2	220	143	270*1214*476
KRD200	1400/1700/2000	70/80/105	53/51/51	67/64/61	73/68/68	81/77/75	46/48/52	930/1050/1310	4.5/5.0/6.3	220	175	270*1240*476
KRD250	1600/2000/2500	70/80/100	56/54/51	70/65/62	74/69/69	86/81/80	45/50/53	1000/1410/1630	5.0/6.4/7.6	220	185	270*1240*600
KRD300	1800/2500/3000	70/85/150	68/61/58	79/74/71	76/70/70	88/85/82	45/45/52	1010/1460/1900	4.7/6.8/8.7	220	198	270*1872*660
KRD400	*/*/4000	*/*/125	*/*/51	0/0/65	74/68/68	*/*/78	*/*/58	*/*/1940	*/*/5.3	220	290	430*2022*660
KRD500	*/*/5000	*/*/95	*/*/57	*/*/71	76/70/70	*/*/82	*/*/59	*/*/2790	*/*/7.3	220	360	430*1842*860
KRD600	*/*/6000	*/*/120	*/*/58	*/*/70	74/68/68	*/*/84	*/*/60	*/*/3280	*/*/7.8	220	390	430*2172*860

Purifying heat recovery fresh air handling unit



Multiple haze removal, healthy home

Must-have for haze removal

More layers of filtering bring more health protection. PM2.5 removal rate of up to 95%.



All-round air replacement

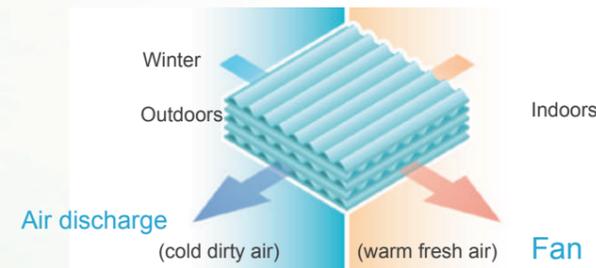
Enjoy fresh air without having windows open

The unit is ceiling-mounted in places not that noise-sentimental. With all air ports put indoors, it can ensure that air is supplied and discharged evenly and smoothly.



Efficient energy recovery

Efficient heat exchanger core



- The heat recovery core is formed by cross-laminating and rotating single-sided corrugated paper sheets by 90°. Such core has two vertical paths which leave each other in peace. In this way, the fresh air and return air could go separate ways and heat and humidity can be exchanged.

- Equipped with Japan's latest technology, the parallel paper for such core is uniform in texture and without pores, and shows heat recovery efficiency of 80%.

Parameters of purifying heat recovery fresh air handling unit

Model	KRV015	KRV025	KRV035	KRV050	KRV080
Power supply	220V~50Hz				
Input power W	105	135	276	365/380	550/570
Current A	0.5	0.6	1.25	1.7/1.76	2.5/2.62
Air flow m³/h	150	250	350	500	800
Purification efficiency	95%	95%	95%	95%	95%
External static pressure (Pa)	80	80	80	50/100	50/100
Heat exchange efficiency (heating/cooling) %	85/67	82/63	80/62	73/61	71/62
Enthalpy exchange efficiency (heating/cooling) %	75/55	72/52	68/51	64/50	65/50
Noise (dB(A))	32	34	39	43	45
Net weight (kg)	24	24	27	53	60