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Subscription Number of EUROKLIMAT









Multi-Connected Central Air Conditioning

Give life to building & bring us back to nature



Established in Italy in 1963 and after more than half century of development history, EUROKLIMAT Group is a famous manufacturer of refrigeration and air conditioning equipment in Europe. Through continuous innovation and development, EUROKLIMAT industry has become a pronoun of energy-saving air conditioning in the European market.

As an Asian manufacturing base and sales organization of Aerospace Science and Industry Corporation and EUROKLIMAT Group, Guangdong EuroKlimat Air-conditioning & Refrigeration Co., Ltd. has an Euroklimat industrial park with 100 thousand square meters in Dongguan, and an Euroklimat industrial park with 50 thousand square meters in Tianjin, and has introduced European leading air-conditioning design and R&D and manufacturing in all lines.

EK Air Conditioning has 34 service organizations in China to provide all customers with 24h direct service guarantee. All series of products of EK China have been successfully used by many customers in the Asian-Pacific region, Middle East, Africa and South America. As a pioneer of energy-saving air conditioning in Europe, adhering to the social commitment of energy conservation and environmental protection, EK Air Conditioning has continuously been working on researching and developing comfortable and energy-saving air conditioning products and going hand in hand with partners to create a better future.

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Efficient and energy-saving Convenient maintenance Enjoy the low carbon life Leading technology Intelligent control system Stable and reliable operation Convenient and easy manipulation Comfort and health Lineup of indoor and outdoor units Enjoy green technology Time-saving and easy 36 Perfect sales service system Labor-saving and cheaper construction

All DC Frequency Conversion Multi-Connected Central Air Conditioning

Intelligent backup operation technology

Multiple compressors and multiple fans of outdoor unit are mutually backup operation to ensure stability and reliability of the unit.

Multi-stage oil return technology of the system

High efficiency compressor is provided with internal oil mist separation design, intelligent oil level control and other oil control technologies, so as to ensure the optimal operating state of the system.

Two-stage sub-cooling technology

Efficient economizer is used for secondary sub-cooling, so as to achieve a maximum 30°C of sub-cooling degree and greatly improve operation efficiency

EJEUROKLIMAT

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ome of

6 Patented design of heat exchanger

The patented sub-cooling/anti-frosting leat exchanger is designed to greatly morove heating comfort in the winter A variety of intelligent control control plans are used to satisfy customer requirements for system



14 mute technologies

14 mute technologies of the unit are used to provide a quiet and comfortat environment.



0° sinusoidal wave output, contro quency accuracy is 0.01HZ and pacity output of the unit is more



FIPLV(C) values of all series nits are up to 9.60.

> Unconventional maximum 32 HP for a single module; Up to 96 HP for the combination of multiple modules

Same P

Efficient And Energy-Saving To Enjoy The Low-Carbon Life



Far beyond national primary energy efficiency

Industry-leading comprehensive coefficient of performance

conversion fan

motor



Note: According to GB-21454-2008 The Minimum Allowable Values of the IPLV and Energy Efficiency Grades for Multi-Connected Air-Condition (Heat Pump) Unit, modular multi-connected air-condition (heat pump) unit is provided with IPLV(C) test for basic modules

Efficient outdoor unit

The unit is provided with efficient parts and components and the system is adjusted to the most optimal operation state to be energy-saving, so as to ensure reliability and comfort and improve energy-saving effect of the system

frequency

conversior technology



circuit

draught design of internal thread heat exchanger copper tube

IPLV(C), up to 9.60, far beyond national

standard for primary energy efficiency

Frequency conversion compressor with international brand

The unit is provided with all DC frequency conversion compressor, high rigid casing, anti-overcompression technology and anti-liquid striking design, in combination with advanced two-stage sub-cooling technology of the system, to increase cooling capacity and greatly improve operating efficiency of the system.

- 1. New central winding stator and six-grade neodymium magnetic material rotor are used to effectively improve motor efficiency and enable the compressor to be operated in a more stable and low aerated way.
- 2. The compressor with large displacement and oil pressure equalizing pipe are designed to achieve stable oil return of the compressor and the higher operating efficiency.
- 3. Oil and mist in the compressor are separated to reduce oil spitting rate at the exhaust opening and improve efficiency level at lower rotating speed.
- 4. Oil film mounted technology of the compressor is used to reduce leakage of the compressor and improve energy efficiency of the unit

Frequency conversion control technology

Stepless frequency conversion technology

Advanced DC frequency conversion control technology is used to regulate stepless speed of the compressor. According to actual air conditioning load requirements, it's used to intelligently adjust linear output of the system from low load to high load capacity, so as to truly adjust the capacity of the unit as required.

Intelligent frequency conversion control

- The powerful frequency conversion control main board researched and developed independently is used to control frequency conversion in the range of 0~420Hz and frequency accuracy is controlled to be 0.01Hz.
- High-speed DSP chip of American Texas Instruments and mature algorithm of double closed-loop feedback control of voltage and current are used for accurate control. Meanwhile, it's also integrated with multiple protection functions of over-voltage, over-current and overtemperature, so as to achieve a more stable performance and more reliable operation.
- · Sensorless SVPWM sinusoidal wave control technology can be used to effectively reduce motor vibration of the compressor
- . Closed loop start control plan can be used to decrease starting current of the compressor, reduce impact on the grid, and effectively protect stable operation of the grid of the customer.



Control module

SMT mounted technology

For SMT (surface mounted technology), mounted materials are painted on the surface of main board, so as to effective improve anti-clutter interference performance of main board and protect it from being affected by high temperature, humidity, wind-blown sand and other severe weather and air environment.



Control surface provided with SMT surface mounted materials

DC frequency conversion compressor



Ordinary air conditioning: ordinar rectangular wave output, the moto has low efficiency



EK Air Conditioning: 180° sinusoida wave output, the motor has high efficiency



Frequency conversion module

Floating adaptive pressure of the inverter

EK frequency conversion controller is provided with advanced unbalance control technology of power supply voltage. If unbalance rate of the voltage is up to 3%, it can be operated in a stable and efficient way.



Inhibited high-order harmonics and electrical noise

Through multiple strict tests and with efficient components, EKRV-E multi-connected central air conditioning unit can be used to effectively inhibit occurrence of harmonics and electrical noise, and pass through national EMC test.

Reactor (special design)	
Non-polar two-core shielding sheath transmission line	
Ferromagnetic ring (special design)	1995 - 1997 - 19
Common mode choke	
Thin-film capacitor	

DC frequency conversion motor

DC brushless variable speed motor is selected to effectively cope with various ambient temperatures and rapidly reflect and regulate rotation speed of the fan, so as to ensure stable air intake and air purge pressure of the system. Meanwhile, air flow rate and wind pressure of outdoor unit are automatically regulated according to load change conditions, so as to ensure stable and reliable operation of the system.



Design of efficient heat exchanger

Efficient and corrosion resistant heat exchanger

Indoor unit and outdoor unit are provided with hydrophilic anticorrosion aluminium foil to reduce corrosion of the fins by corrosive gases; damage surface tension of water drops and speed up rapid discharging of the condensate; be difficult to frost during heating and improve performance of air conditioning.



Design of efficient heat exchanger

Two stage sub-cooling cycle

The condenser is used to realize one stage sub-cooling and provided with independent plate type heat exchange to realize two-stage sub-cooling. The maximum designed sub-cooling degree of two stage sub-cooling can be up to 30°C to increase cooling capacity of the unit, effectively improve capacity attenuation of long connection pipe and efficiency of the unit, so as to achieve more stable operation.



Specific bend draught design of heat exchanger

• After ordinary heat exchanger is bent, fins at adjacent tube bundles are easy to be dislocated, causing a larger stack loss. Although the air is slowed down, heat exchange efficiency is reduced; during heating, fins can be easily blocked by the condensate.



defrosting, so as to prevent frost water from blockage and affecting heat exchange efficiency.



efficiency.

Efficient 2-1 circuit



Efficient "2-1" cooling circuit is designed to increase liquid

refrigerant quantity and greatly improve heat exchange

• EK heat exchanger is provided with new bend ventilation design to reduce stack loss and improve heat exchange efficiency. During heating, condensate at the bend can be discharged smoothly



• New heat exchanger can be used to obviously improve its performance of heat transfer efficiency and timely discharge condensate during

Reducing stack loss



Cutting-edge technology

Stable and reliable operation

Refrigerant control technology

STC intelligent regulation technology

The unit can predict and control the refrigerant, so as to intelligently judge ideal operating status of air conditioning system. Meanwhile, the unit is provided with STC (smart temperature control) intelligent regulation technology. In door unit can be used to intelligently regulate vaporization temperature according to corresponding load demand. If there is small cooling demand, it's necessary to intelligently increase vaporization temperature and reduce opening of electronic expansion valve; vice versa, so as to give a better indoor human comfort along with more efficient operation of the system.







Refrigerant control technology

----- Refrigerant pressure detection technology ------

Suction and discharge pressure sensors and temperature sensor are used to accurately detect refrigerant state of the system, so as to ensure that the unit can be operated in a stable and efficient way. Pressure changes are timely fed back by the sensor and indoor load is quickly answered by the unit, so as to avoid impact and influence of high and low pressure on the compressor.

New refrigerant liquid separator

Heat exchanger is provided with new refrigerant liquid separator to evenly shunt the refrigerant, reduce the pressure loss and the noise, and effectively increase heat exchange efficiency.

---- Control and accurate temperature control by multiple electronic expansion valves

Outdoor unit is provided with multiple electronic expansion valves to accurately regulate refrigerant flow according to the load of indoor unit, so as to create a more comfortable indoor environment.

Refrigerant piping storage technology

Refrigerant piping storage technology can be used to store surplus liquid refrigerant in the pipe line without special liquid receiver, so as to remove system circuit of liquid receiver, more accurately control the refrigerant and obvious improve operating efficiency of the system.



Dynamic distribution technology of refrigerant

During heating, refrigerant in the stalled indoor unit is transferred and reasonably distributed to the running air conditioning unit, so as to provide sufficient refrigerant for the unit and ensure heating capacity.





Multistage oil control technology

High-capacity oil separator, cross balancing oil between compressors, Intelligent oil return between modules, automatic oil return of the system and non-stop oil return during heating and other oil control technologies are used by the unit to keep effective oil return rate of the system above 99.99%, so as to ensure reliable and stable operation of the system and effectively extend life span of complete machine.





Efficient oil control units

Efficient oil separator

It can be used to effectively block refrigeration oil from entering the system along with refrigerant, timely send oil back to the compressor, and return oil efficiently.

• Patented and efficient gas liquid separator

U-shape bend of gas liquid separator is provided with double oil return holes. Column strainer is provided in the oil outlet to effective increase filter area, ensure filter effect and oil return quantity of the compressor, prevent liquid impact and improve oil return performance.



System oil return control technology

- Non-stop oil return during heating There is no need to switch heating mode to cooling mode during oil return of the unit under heating, and the unit should be used to
- Automatic oil return of the system

continuously supply heat during oil return.

Oil return instructions are automatically sent by the system through the controller according to operating time and state, so as to automatically return oil as required.

 No oil balancing piping is required between outdoor unit modules.



Intelligent defrosting technology

Intelligent defrosting technology, safe operation in the winter

• Dynamic intelligent defrosting function

Defrosting time can be dynamically and automatically corrected by the system according to real-time operating temperature and pressure state parameters of outdoor unit, so as to accurately grasp defrosting time; more, less or no defrost should be more, less and no removed respectively to effectively avoid heating loss under normal defrosting.

• Defrosting function at a low temperature

If outdoor temperature is low, the unit is used to automatically determine change trend of data measured by temperature and pressure sensors, so as to give a more accurate defrosting.

• Defrosting function in the high-humid environment

The unit can be used to automatically determine ambient humidity and defrost accurately, so as to avoid excessive or invalid defrosting.

• Partial load defrosting function

During partial load operation of the unit, changes of heat exchange efficiency of outdoor unit can be automatically used for defrosting. According to different judgment rules under different load conditions, it's necessary to more accurately grasp the defrosting time.



Anti-frosting heat exchanger

Heat exchanger of outdoor unit is provided with anti-frosting design. Under heating mode, refrigerant with medium temperature arising from the indoor unit can be used for further heat release in the anti-frosting heat exchanger, so as to ensure no frosting at the bottom of heat exchanger of outdoor unit. Anti-frosting design can be used to effectively avoid frosting and accumulated snow at the bottom of heat exchanger, so as to improve heating capacity of the system.



Anti-frosting heat exchange





Wide operating range

Wide operating temperature, better coping with hostile environment

Wide operating temperature can be used to greatly improve adaptive capacity of the system to various environments. Advanced design of air conditioning system can be used to ensure reliable operation of EKRV at 50°C or -20°C, so as to create a comfortable indoor environment for you.

Cooling operating range: -5°C~50°C Heating operating range: -20°C~29°C



Intelligent balance operating management

The system automatically records the operating time of every compressor. Based on this time, the system preferentially starts a compressor with the shorter operating time to balance the operating time of every compressor and extend their service life. The system automatically records the operating time of every module and preferentially starts a module with the shorter operating time to balance the operating time of every module and extend unit service life.



Triplex backup operation function

The unit uses triplex backup operation design in which mutual backup exists between outdoor unit modules, between compressors in modules and between fans to ensure continual operation of the unit during accident protection/shutdown and reduce the maintenance waiting time.







Multiple protection measures, protecting safe and reliable operation of the unit



Intelligent power-saving mode

As required by power peak and valley, EKRV-E central air conditioning can be used to intelligently detect the current and operate in the automatically power-saving mode, so as to reduce power consumption of the unit under the premise of ensuring comfort.

Health and Fitness Fully enjoy green technology



Creating a quiet atmosphere

14 mute designs are used by the unit to realize mute operation of indoor unit and outdoor unit.



Sound proof box of patented new compressor

Outdoor unit is provided with independent sound proof box to effectively reduce noise and protect the compressor. High-density sound absorbing materials are attached to the inner wall of the box. Complete machine can be used to form three-layer noise reduction measures of the compressor, so as to effectively absorb and obstruct noise of the compressor in the high, medium and low frequency bands. The complete machine has obvious noise reduction effect.



- Low-noise DC frequency conversion
- Design for avoid resonance between
- Anti-vibration design of the base of the
- High-density sound absorbing material

required to be automatically mute



Sheet metal lave

High-density sound sorbing material laye



Independent sound proof box of the compressor (machine room)

Noise control of indoor unit

It's necessary to research on methods for reducing operating noise of indoor unit through operation place, structure features and operation control. Minimum noise can be as small as 23dB (A















50dB(A)



Automatically mute in the whole day

When the system has partial load, outdoor fan can be operated at a reducing speed automatically according to the pressure and the unit is used to automatically regulate the capacity to perfectly match with the load of the room, so as to automatically reduce operation noise.



Night mute mode

For night mute function of outdoor unit, if this mode is turned on, minimum noise of the unit is as small as 40 dB, so as to create a comfort and guiet night environment.





VIP function

Multiple operating modes are optional: VIP users first, cooling first, heating first, cooling only, and heating only.

Heating first







VIP first

Heating only

Three-in-one temperature sensing design

Temperature sensor can be used to accurately detect air supply return, return air temperature and indoor temperature. Control chip of indoor unit can be used to intelligently detect temperature changes, automatically regulate actual cooling capacity or heating capacity of indoor unit, keep control precision of indoor temperature to be ±0.5 °C, and control air outlet temperature in the most comfortable range of human body.



Green and environmental, caring for the earth

A positive and comprehensive response to European RoHS directive

Full name of RoHS is the restriction of the use of certain hazardous substances in electrical and electronic equipment. In this directive, it specifies that following six hazardous substances (lead, mercury, cadmium, chromium VI, PBDE or PBB) are prohibited from being used in electrical and electronic equipment. EK Air Conditioning positively responds to European RoHS directive and strictly controls usage of hazardous substances, so as to protect health of users and ensure that scrapped electrical and electronic equipment are recycled and disposed according to environmental requirements.

Comfortable and healthy air solution

In recent years, metropolises of the country have suffered from haze frequently and worse and worse air quality, there is no time to delay for optimizing indoor air quality. EK is committed to provide users with professional air quality solutions:

Ecological air purification technology (optional)

DecoTecTM technology is used to fully resolve formaldehyde absorbed on the filter surface in the air into water and carbon dioxide, so as to completely eradicating re-discharging of formaldehyde. Through inspection of the third-party authority, removal efficiency is up to 99%, so as to restore the most harmonious original ecology environment.



PM2.5 electrostatic precipitation strainer (optional)

Optional PM2.5 electrostatic precipitation strainers are used in the return air inlet of indoor unit, so as to realize dedusting and cycle purification of indoor air and create a healthy and comfortable indoor space for you.

Cooling first

Cooling only

Quickly starting cooling (heating) to rapidly reach the set temperature

EK DC frequency conversion quick start technology can be used to realize 100% output of cooling/heating capacity of the unit and quickly satisfy the demand for air conditioning.





Use R410A environmental refrigerant

EKRV-E series are fully provided with internationally-recognized, non-poisonous and stable R410 environmental refrigerant with excellent performance. Its ODP is 0, which means not damaging the atmospheric ozone layer. Along with being efficient and energy-saving, it can be used to give you a green and environmental air conditioning environment

Efficient And Energy-Saving To Enjoy The Low-Carbon Life

Super long piping



Maximum total length of the piping is 1000m Maximum equivalent length of single pipe is 200m Maximum actual length of single pipe is 170m Maximum drop of indoor unit and outdoor unit Outdoor unit is at upper 90m Outdoor unit is at lower 110m Maximum drop of indoor unit is 40m Maximum length of the pipe ehind first branch pipe is, .90m _ Closest Indoor Farthest

*Note: in case of following conditions, please consult EK technology engineer 1. Outdoor unit is at upper part and the drop between indoor unit and outdoor unit is beyond 50m

indoor unit unit

indoor unit

2. Outdoor unit is at lower part and the drop between indoor unit and outdoor unit is beyond 40m

3. The drop between indoor units is beyond 20m

Flexible application



Intelligent commissioning

Commissioning-efficient test run

EKRV-E series multi-connected unit is provided with efficient test run function to improve construction speed and ensure construction quality at the construction site.

- . Automatically checking various connection wirings between indoor unit and outdoor unit, so as to ensure correct connection. • Automatically checking whether fill amount of refrigerant in the system is in a reasonable range according to configuration of indoor unit and outdoor unit, length of refrigerant piping and other actual conditions of the system.
- Implementing test run to connect intelligent diagnosis and commissioning software, so as to rapidly diagnose air conditioning in all directions and facilitate commissioning and maintenance.





Automatically checking whether locking valve of each outdoor unit module is in the normal working state, so as to ensure normal operation of air conditioning system.

Phase-sequence self-recognition and correction technology

can be used to recognize and automatically rectify the phase sequence, so as to realize normal operation

Automatically detecting abnormities of the pipe line

According to configured temperature and pressure sensors, the system can be used to supervise oper conditions of the system in a real-time way and timely find out abnormal conditions (pipe connection errors and leakage etc.) of the system pipe line.

Non-polar communication of outdoor unit and automatic addressing

Outdoor unit and indoor unit are communicated non-polar shielding twisted pair. During commissior there is no need to set address of each indoor unit. Th controller can be used to automatically register the address of all indoor unit of the system, which requ no manual dial-up and is simple and safe.

Automatic recovery of the circuit

Excessive high temperature, excessive large current and sure of the unit, if any, may mage the unit. Under such conditions, the system c give timely alarm and electronic control circuit can be ed for automatic recove

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Convenient Maintenance

Automatic recycling of the refrigerant

The refrigerant can be automatically recycled to outdoor unit side or indoor unit side as required by maintenance, so as to save waste caused by discharging of refrigerant during maintenance.



Emergency maintenance of power down of indoor unit

If one indoor unit has fault, which requiring emergency power down for maintenance, this indoor unit can be independently powered down without affecting operation of the whole system.



Automatic determination of refrigerant charge

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The unit can be used to automatically detect whether refrigerant charge in the system is proper according to configuration of indoor unit and actual length of refrigerant piping. If refrigerant charge is insufficient, a prompt of timely charging by technology personnel can be given to ensure stable and efficient operation of the system.



Emergency shutdown

Without remote monitoring, outdoor unit can be directly connected to fire alarm linkage signal. Under emergency conditions, complete machine can be immediately stopped from operation, so as to avoid greater risk loss.



Electric box rotation and waterproof design

As electrical element is very sensitive to water, electric control box of EKRV-E series unit are provided with lavered design and multiple waterproof measures to effectively protect electrical elements and extend life span of the unit. Electric box is provided with rotatable design to greatly facilitate commissioning and maintenance.



Outdoor unit can be used to automatically regulate frequency difference between two compressors during operation, so as to prevent system resonance, improve system stability and reduce system noise. Frequency- compressor A Frequency- compressor B Resonance occurs Frequency- compressor A Frequency- compressor B



Traditional total frequency conversion unit: same frequency can cause resonance, so as to amplify the energy in times and increase the noise.

Fault storage and query (black box)

The system has fault storage function, which can be used to query and record fault data and facilitate after-sales service personnel in correctly and quickly judging and analyzing fault according to its reason



In case of power-on again after accidental power off, the system can be used to automatically restore operating state before power off without manual operation.



Lightning protection function

Outdoor unit is designed with lightning protection function to avoid damaging the unit by lightning and effectively protect safe and reliable operation of the unit.



EK intelligent anti-resonance technology: different frequencies are used to mutually cancel vibration energy and reduce the noise.

7-section luminous digital tubes are directly used by the unit to display operating information of the system, so as to realize direct visualization of operatin state and facilitate commissioning and after-sales services.



Anti-salt fog function of outdoor unit (optional)

If used in the salt fog and acid environment on the sea, outdoor unit can be provided with customized anti-salt fog function.

Smart control system Convenient and easy manipulate



Automatic restoration of

Main wire controller function

• Temperature limits of the controller

Prompt of cleaning the strainer

temperature settings

Controller locking

Sleep function

Wired controller

• Friendly man-machine interface and

- touch screen operation
- Power-on and power-off and temperature settings
- Air conditioning mode (cooling /heating/
- dehumidification/air supply) settings
- Strong wind/medium wind/low wind/
- automatic/wind deflector swinging settings
- Timed power on and power off, and maximum timing time is 24h.
- Fault code display function
- Sub-control electric heating or auxiliary
- hot water coil control function

Central controller

- · Friendly man-machine interface and touch screen operation
- Controlling 16 indoor units at most (across the system)
- Stand-alone or group mode settings
- Power-on/power-off, temperature settings
- Air conditioning mode (cooling /heating/ dehumidification/air supply) settings
- Strong wind/medium wind/low wind/automatic/wind deflector swinging settings
- Timed power on and power off, and maximum timing time is 24h.
- Sleep function
- Sub-control electric heating or auxiliary hot water coil control function
- Operating state monitoring



Wireless controller

• Large screen LCD display

timing time is 24h

control indoor unit

Power-on and power-off and temperature settings

Strong wind/medium wind/low wind/automatic/

• Timed power on and power off, and maximum

• Wired/wireless controller can be jointly used to

• Air conditioning mode (cooling /heating/

dehumidification/air supply) settings

wind deflector swinging settings

Intelligent one-key pass function

Remote monitoring

Smartphone or tablet PC can be used to operate air conditioning system in a remote way through EK software and monitor operating conditions of each indoor unit in an all-round way.



Intelligent management system

EK multi-split air conditioner management system is intelligent software especially developed according to management and control of EK multi-connected central air conditioning. With computer as centralized control center, it can be used to connect 4096 indoor units and 64 sets of outdoor units at most, so as to automatically and online manage the whole air conditioning system.

- · Monitoring operating state of air
- conditioning system User controller locking function
- Timing management



 Power-on and power-off of each indoor unit, temperature settings, air velocity settings etc.

- User permissions settings
- Fault alarm

Household charging function

Power distributor can be used to connect intelligent wattmeter and indoor unit and outdoor unit system, read data of intelligent wattmeter and real-time operating state of indoor unit and outdoor unit at a high speed, accurately distribute and store total consumed power according to refrigerant flow proportion corresponding with opening of electric expansion valve of indoor unit and in combination with air velocity and return air temperature of indoor unit, and defrosting of outdoor unit and other state parameters, and transfer them to PC machine through LAN switch. Then, electric quantity distributed to each indoor unit can be converted by PC machine to corresponding fees, so as to complete reports and statistics etc.



Floor visualization navigation interface can be used to monitor states of all units, manage permissions of the user, display and store operating records of all units, and automatically calculate and export electric quantity of indoor units, so as to generate report forms of electric quantity of each user.



Open intelligent building control system

EK open intelligent building control system can apply to MODBUS communication protocol, switch air conditioning system of EK VRV air-conditioning system to intelligent building control system through network connection module, so as to realize following functions:

- Built-in protocol converter
- Monitoring operating state of air conditioning system in a real-time way
- and wind direction settings, mode settings etc.)
- Fault alarm and fault code display
- Manageable user permission settings
- Chain control (fire alarm, door lock and lighting etc.)



Door card control system

Door card signal interface can be pre-set on the control panel of indoor unit. Door card can be used to jointly control relevant indoor units. After removing the card, indoor unit is powered off. If the card is inserted again, indoor unit can be used to automatically restore operating mode before removing the card or restore to standby mode.



. Monitoring center gives operation instructions to air conditioning unit (power-on and power-off, temperature settings, air flow rate

Indoor and outdoor line-up





Indoor line-up with multiple choices



Concealed mounted ceilina indoor unit



Ceilina built-in indoor unit

High static pressure

ducted indoor unit





Wall mounted indoor unit

Indoor unit of concealed mounted ceiling air conditioner (EKCC-B1 standard type)

Adjustable multiple air supply distances

Multiple static pressures can be switched on the site to satisfy air supply requirements at different distances.

Model	Standard Static Pressure (Pa)	Optional Static Pressure (Pa)
EKCC22B1-EKCC71B1	10	10/30
EKCC80B1-EKCC160B1	10	10/30/50



Auxiliary electric heating (optional)

PTC thermo-sensitive ceramic elements are optional for electric auxiliary heating. ------



Indoor unit of concealed mounted ceiling air conditioner (standard type)

	0.11		Auxiliary								C	onnection pip	e specification	mm	
Unit model	Cooling capacity kW	Heating capacity kW	heating power kW (optional)	Air flow rate m ³ /h	External static pressure Pa	Input power W	Power supply	Noise dB(A)	Dimensions (W×D×H) mm	Mass kg	Liquid pipe	Gas piping	Drain pipe (self- drain)	Drain hose of water distribution pump	Control mode
EKCC22B1	2.2	2.5	1.0	500/400/300	10/30	54	220V~50Hz	34/31/27	1032x530x230	22	Φ6.35	Φ12.7	R3/4	Φ16	
EKCC25B1	2.5	3.0	1.0	500/400/300	10/30	54	220V~50Hz	34/31/27	1032x530x230	22	Φ6.35	Φ12.7	R3/4	Φ16	
EKCC28B1	2.8	3.2	1.0	500/400/300	10/30	54	220V~50Hz	34/31/27	1032x530x230	22	Φ6.35	Φ12.7	R3/4	Φ16	
EKCC32B1	3.2	3.6	1.0	500/400/300	10/30	54	220V~50Hz	34/31/27	1032x530x230	22	Φ6.35	Φ12.7	R3/4	Φ16	nal)
EKCC36B1	3.6	4.0	1.2	580/500/400	10/30	64	220V~50Hz	36/34/31	1032x530x230	22	Φ6.35	Φ12.7	R3/4	Φ16	ptio nal)
EKCC40B1	4.0	4.5	1.2	580/500/400	10/30	64	220V~50Hz	36/34/31	1032x530x230	22	Φ6.35	Φ12.7	R3/4	Ф16	er (a ptio
EKCC45B1	4.5	5.0	2.0	900/750/550	10/30	102	220V~50Hz	36/34/31	1288x530x250	25	Φ6.35	Φ12.7	R3/4	Φ16	en (c
EKCC50B1	5.0	5.8	2.0	900/750/550	10/30	102	220V~50Hz	36/34/31	1288x530x250	25	Φ6.35	Φ12.7	R3/4	Φ16	cree
EKCC56B1	5.6	6.3	2.0	900/750/550	10/30	102	220V~50Hz	36/34/31	1288x530x250	25	Φ6.35	Φ12.7	R3/4	Φ16	ch s
EKCC63B1	6.3	7.1	2.2	960/900/750	10/30	113	220V~50Hz	37/36/35	1288x530x250	27	Φ9.52	Φ15.88	R3/4	Φ16	ren f tou
EKCC71B1	7.1	8.0	2.2	960/900/750	10/30	113	220V~50Hz	37/36/35	1288x530x250	27	Ф9.52	Φ15.88	R3/4	Φ16	splay er o
EKCC80B1	8.0	9.0	2.2	1200/950/800	10/30/50	158	220V~50Hz	39/37/35	1288x530x250	28	Φ9.52	Φ15.88	R3/4	Φ16	II dis
EKCC90B1	9.0	10.0	3.6	1400/1100/900	10/30/50	210	220V~50Hz	40/38/36	1642x530x250	39	Φ9.52	Φ15.88	R3/4	Φ16	rysta e cor
EKCC100B1	10.0	11.2	3.6	1900/1520/1300	10/30/50	276	220V~50Hz	43/41/39	1642x530x250	39	Φ9.52	Φ15.88	R3/4	Φ16	Wire
EKCC112B1	11.2	12.5	3.6	1900/1520/1300	10/30/50	276	220V~50Hz	43/41/39	1642x530x250	39	Ф9.52	Φ15.88	R3/4	Φ16	Liqu
EKCC125B1	12.5	14.0	3.6	1900/1520/1300	10/30/50	276	220V~50Hz	43/41/39	1642x530x250	39	Φ9.52	Φ15.88	R3/4	Φ16	
EKCC140B1	14.0	16.0	3.6	2100/1750/1460	10/30/50	280	220V~50Hz	44/42/40	1903x530x250	45	Φ9.52	Φ15.88	R3/4	Φ16	
EKCC160B1	16.0	18.0	3.6	2100/1750/1460	10/30/50	280	220V~50Hz	44/42/40	1903x530x250	45	Ф9.52	Φ15.88	R3/4	Φ16	

Note: 1. Cooling capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C; Heating capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;
Above noise values are measured at 1.4m part below central part of air conditioner in the semi-anechoic room; during actual operation, due to influence of external environment, noise value is slightly higher than the standard;
Dimensions marked above default to be lower return air mode. If indoor unit is provided with rear return air, the depth needs to be increased for 20mm;
Above noise values are measured during operation in the rear return air way. In case of operated with lower return air method, noise value is larger than the noise value operated in the rear return air mode. If Gaussian and Caussian and Caussian



Condensate lifting pump (optional)

Condensate lifting pump with 1200mm high-lift and integrated drain pan are optional for preventing condensation and leakage.

Condensate lifting



1200 mm lift

Multiple optional return air methods





Indoor unit of concealed mounted ceiling air conditioner (EKCC-SA1 ultra-thin type)

Three-dimensional air supply panel (optional)

The horizontal and vertical swinging devices at the air outlet can be freely adjusted via remote control to create a comfortable three-dimensional air discharge effect. After the air conditioner is turned off, the swinging devices are automatically closed to restore the smooth panel. The indoor decoration is simple and beautiful and can prevent dust from entering the indoor unit. Advanced ABS material is used to effectively prevents condensation at the air outlet during cooling.



Ultra-thin fuselage

With small requirements for drop ceiling space, the unit with a depth of only 450mm and a height of only 200mm can be perfectly integrated with indoor decorations.



Auxiliary electric heating (optional)

PTC thermo-sensitive ceramic elements are optional for electric auxiliary heating.

Integrated drain pan for preventing condensation and leakage Indoor unit of concealed mounted ceiling air conditioner (ultra-thin type)

Condensate lifting pump (optional)

Optional condensate lifting pump with 1200mm lift is optional provided with the check valve to prevent flow backward of the condensate, so as to be safer and realize more flexible mounting position.



Mute

The ultra-low operation noise of minimum 23 dB(A) is achieved through optimized design of the internal air duct.

Multiple optional return air methods



In case of sufficient mounting space, it's recommended to use side supply and rear return method to eddectively reduce operating noise. The access opening is set to ensure smooth

maintenance.



Cooling Heating electr	electric		External						Co	nnection pipe	e specificatior				
Unit model	capacity kW	capacity kW	heating power kW (optional)	Air flow rate m ³ /h	static pressure Pa	power W	Power supply	Noise dB(A)	(W×D×H) mm	kg	Liquid pipe	Gas piping	Drain pipe (self- drain)	Drain hose of water distribution pump	mode
EKCC18SA	1.8	2.2	1.0	460/390/330	10/30	40	220V~50Hz	28/26/23	700x450x200	17.5	Φ6.35	Φ12.7	R1/2	Ф16	-
EKCC22SA	2.2	2.8	1.0	460/390/330	10/30	40	220V~50Hz	28/26/23	700x450x200	17.5	Φ6.35	Ф12.7	R1/2	Ф16	tiona al)
EKCC25SA	2.5	3.0	1.0	460/390/330	10/30	40	220V~50Hz	28/26/23	700x450x200	17.5	Φ6.35	Ф12.7	R1/2	Ф16	r (opl
EKCC28SA	2.8	3.3	1.0	460/390/330	10/30	40	220V~50Hz	28/26/23	700x450x200	17.5	Φ6.35	Ф12.7	R1/2	Ф16	n (op
EKCC32SA	3.2	3.6	1.0	460/390/330	10/30	40	220V~50Hz	29/27/25	700x450x200	18	Φ6.35	Ф12.7	R1/2	Ф16	cont
EKCC36SA	3.6	4.2	1.0	460/390/330	10/30	40	220V~50Hz	29/27/25	700x450x200	18	Φ6.35	Ф12.7	R1/2	Ф16	note Ich s
EKCC40SA	4.0	4.5	1.0	550/450/390	10/30	55	220V~50Hz	33/30/27	700x450x200	18	Φ6.35	Ф12.7	R1/2	Ф16	y rer of tou
EKCC45SA	4.5	5.0	1.0	550/450/390	10/30	55	220V~50Hz	33/30/27	700x450x200	18	Φ6.35	Ф12.7	R1/2	Ф16	ispla
EKCC50SA	5.0	5.8	2.0	870/750/630	10/30	83	220V~50Hz	35/32/28	1100x450x200	25	Φ6.35	Ф12.7	R1/2	Ф16	stal d ontro
EKCC56SA	5.6	6.5	2.0	1050/950/820	10/30	93	220V~50Hz	37/34/30	1100x450x200	25	Φ6.35	Ф12.7	R1/2	Ф16	crys lire c
EKCC63SA	6.3	7.5	2.0	1050/950/820	10/30	93	220V~50Hz	37/34/30	1100x450x200	26	Ф9.52	Ф15.88	R1/2	Ф16	M
EKCC71SA	7.1	8.5	2.0	1050/950/820	10/30	93	220V~50Hz	37/34/30	1100x450x200	26	Ф9.52	Ф15.88	R1/2	Ф16	_

Notes: 1. Cooling capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;

2. Heating capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;

3. Above noise values are measured at 1.4m part below central part of air conditioner in the semi-anechoic room; during actual operation, due to influence of external environment, noise value is slightly higher than the standard; 4. Dimensions marked above default to be lower return air mode. If indoor unit is provided with rear return air, the depth needs to be increased for 20mm;

5. Above noise values are measured during operation in the rear return air way. In case of operated with lower return air method, noise value is larger than the noise value operated in the rear return air for about 5 dB (A).

Indoor unit of ducted air conditioning equipment (EKDB-B1 series)

High hydrostatic pressure design

Indoor unit is provided with high hydrostatic pressure design for air supply in a long distance and at multiple points, so as to satisfy air conditioning demand in a large space place.



Multiple tuyere choices

Air supply tuyere in different ways can be selected according to actual decoration requirements at the site, so as to satisfy requirements for air conditioning in different places.



Indoor unit of ducted air conditioner

	Cooling	Heating		External				Dimonsions	Maga	Connectio	on pipe speci	fication mm	Control
Unit model	capacity kW	capacity kW	Air flow rate m ³ /h	static pressure Pa	Input power W	Power supply	Noise dB(A)	(W×D×H) mm	kg	Liquid pipe	Gas piping	Drain pipe (self- drain)	mode
EKDB125B1	12.5	14.0	2550/2040/1650	100	583/480/380	220V~50Hz	48/46/44	1280×655×350	69	Φ9.52	Φ15.88	R3/4	otional) tal)
EKDB140B1	14.0	16.0	3000/2540/1920	100	742/640/550	220V~50Hz	50/48/46	1280×655×350	75	Φ9.52	Φ15.88	R3/4	troller (op in (optior
EKDB160B1	16.0	18.4	3440/2770/2330	100	938/692/577	220V~50Hz	51/49/47	1611×655×350	75	Φ9.52	Φ15.88	R3/4	note cont ch scree
EKDB250B1	25.0	28.0	5200/4900/3900	100	1700/1540/1250	220V~50Hz	57/54/51	1580×950×470	100	Φ9.52	Φ19.05	R1	splay ren ler of tou
EKDB280B1	28.0	31.5	5000	100	1800	220V~50Hz	57	1580×950×470	120	Φ9.52	Φ22.23	R1	rystal di: e control
EKDB280B1	28.0	31.5	5000	150/200/300	1250/1500/1700	380V/3N~50Hz	57/58/61	1580×1020×520	150	Φ9.52	Φ22.23	R1	Liquid c Win

Note: 1. Cooling capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;
Heating capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;
Above noise values are measured at 1.4m part below central part of air conditioner in the semi-anechoic room; during actual operation, due to influence of external environment, noise value is slightly higher than the standard;

Low operating noise

Indoor unit is provided with efficient and low-noise centrifugal fan; inner wall is provided with sound-absorbing and thermal insulation materials and double aeration reduction design is used to ensure low-noise operation of indoor unit; what's more, indoor unit can be mounted at drop ceiling which is far away from air conditioning area, so as to satisfy requirements for indoor low-noise to the largest extent.



Long-acting strainer

Effectively absorbing the particles and harmful flocculates and improving indoor air quality.



Indoor unit of four-side discharge built-in air conditioner (EKCK-B1 series)

Mute, artistic, and high ceiling air supply design

There are brand new panel design and elegant and artistic appearance. The fan is provided with centrifugal scroll blades. Through static and dynamic equilibrium, its minimum operation noise is 34dB (A). It has smaller requirements for drop ceiling space of the unit. The air supply design of high ceiling is implemented to adapt to ceiling space of 3.5m high.

Standard long-acting strainer

Effectively absorbing particles and hazardous floccules and improving indoor air quality.

Stereo-encircled air supply

Stereo-encircled air supply is used to give a more even air flow and effectively avoid blind angle for air supply; it also has specific swinging design to prevent cold air from directly blowing to the human body and improve comfort degree of human body.



Optional condensate lifting pump with 1.2m lift

Optional condensate lifting pump with 1.2 m (standard 0.7m) lift is standard provided with the check valve to prevent flow backward of the condensate, so as to be safer and realize more flexible mounting position.



Multi-angle swing settings

Indoor unit can be oriented or provided with angle interval for automatic swinging and random regulation. 8 swinging ways can be used to greatly satisfy individual demand.



Indoor unit of four-side discharge built-in air conditioner

Linth mandal	Cooling	Heating		Input		Noise	Dimensions	Panel dimension	Mass	Connectio	on pipe spe	cification mm	Control
Unit model	kW	kW	Air flow rate m ³ /n	power W	Power supply	dB(A)	(W×D×H) mm	(W×D×H) mm	kg	Liquid pipe	Gas piping	Drain pipe	mode
EKCK28B1	2.8	3.2	500/420/350	45	220V~50Hz	34	582×582×265	680×680×30	24	Φ6.35	Φ12.7	Ф16	
EKCK32B1	3.2	3.6	500/420/350	45	220V~50Hz	34	582×582×265	680×680×30	24	Φ6.35	Φ12.7	Φ16	al)
EKCK36B1	3.6	4.0	500/420/350	45	220V~50Hz	34	582×582×265	680×680×30	24	Φ6.35	Φ12.7	Φ16	al)
EKCK40B1	4.0	4.5	800/670/560	86	220V~50Hz	38	582×582×265	680×680×30	24	Φ6.35	Φ12.7	Φ16	(op tion
EKCK45B1	4.5	5.0	800/670/560	86	220V~50Hz	38	582×582×265	680×680×30	24	Φ6.35	Φ12.7	Φ16	(op
EKCK50B1	5.0	5.6	800/670/560	86	220V~50Hz	38	582×582×265	680×680×30	24	Φ6.35	Φ12.7	Φ16	een
EKCK56B1	5.6	6.3	800/670/560	86	220V~50Hz	38	582×582×265	680×680×30	24	Φ6.35	Φ12.7	Φ16	e co
EKCK63B1	6.3	7.1	1200/1000/840	117	220V~50Hz	40	712×712×290	830×830×30	29	Φ9.52	Φ15.88	Ф16	not
EKCK71B1	7.1	8.0	1200/1000/840	117	220V~50Hz	40	712×712×290	830×830×30	29	Φ9.52	Φ15.88	Φ16	f tou
EKCK80B1	8.0	9.0	1200/1000/840	117	220V~50Hz	40	712×712×290	830×830×30	31	Φ9.52	Φ15.88	Ф16	pla) er o
EKCK90B1	9.0	10.0	1400/1150/980	130	220V~50Hz	42	712×712×290	830×830×30	31	Φ9.52	Φ15.88	Φ16	dis
EKCK100B1	10.0	11.2	1700/1360/1200	187	220V~50Hz	44	827×827×290	980×980×30	38	Φ9.52	Φ15.88	Φ16	stal
EKCK112B1	11.2	12.5	1700/1360/1200	187	220V~50Hz	44	827×827×290	980×980×30	38	Φ9.52	Φ15.88	Ф16	cry ire (
EKCK125B1	12.5	14.0	1700/1360/1200	187	220V~50Hz	44	827×827×290	980×980×30	39	Φ9.52	Φ15.88	Φ16	biuk
EKCK140B1	14.0	16.0	1700/1360/1200	194	220V~50Hz	44	827×827×290	980×980×30	39	Φ9.52	Φ15.88	Ф16	Ľ
EKCK160B1	16.0	18.0	1700/1360/1200	194	220V~50Hz	44	827×827×290	980×980×30	39	Φ9.52	Φ15.88	Φ16	

Note: 1. Cooling capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;

Counting capacities marked above are test results under working conditions of indoor dry/wet buils temperature 20/15°C and outdoor dry/wet buils temperature 30/24°C;
Heating capacities marked above are test results under working conditions of indoor dry/wet buils temperature 20/15°C and outdoor dry/wet buils temperature 7/16°C;
Above noise values are measured at 1.4m part below central part of air conditioner in the semi-anechoic room; during actual operation, due to influence of external environment, noise value is slightly higher than the standard;

Indoor unit of wall mounted air conditioner (EKBG-B1 series)

Nice appearance

Super beautiful appearance newly designed can conform to various decoration styles, so as to achieve a more elegant decoration style.



Free design

Convenient mounting; pipes can be connected in multiple directions in the left and right; thin design; effectively saving mounting costs and space.



Indoor unit of wall mounted air conditioner

Coolir Unit model capaci	Cooling	Heating		lagut			Dimensione	Massa	Connection pipe specification mm			
Unit model	capacity kW	capacity kW	Air flow rate m ³ /h	power W	Power supply	Noise dB(A)	(W×D×H) mm	kg	Liquid pipe	Gas piping	Drain pipe (self- drain)	mode
EKBG22B1	2.2	2.5	450/360/270	30	220V~50Hz	35/31/28	876x228x300	11	Ф6.35	Φ12.7	Ф16	ote optional)
EKBG28B1	2.8	3.2	450/360/270	30	220V~50Hz	35/31/28	876x228x300	11	Φ6.35	Φ12.7	Φ16	lisplay rem (optional) ch screen (
EKBG32B1	3.2	3.6	500/400/300	35	220V~50Hz	36/33/29	876x228x300	11	Φ6.35	Φ12.7	Φ16	uid crystal c controller roller of tou
EKBG36B1	3.6	4.0	500/400/300	35	220V~50Hz	36/33/29	876x228x300	11	Φ6.35	Φ12.7	Φ16	Liq. Wire cont

Note: 1. Cooling capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;
Heating capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;
Above noise values are measured at 1.4m part below central part of air conditioner in the semi-anechoic room; during actual operation, due to influence of external environment, noise value is slightly higher than the standard;

Convenient maintenance

All maintenance can be implemented in advance and horizontal baffle can be easily dismantled and cleaned.

Intelligence and comfort

Intelligent dehumidification; the air is dry and pleasant; low-noise operation; multiple automatic protection, being safe and more comfortable.



Mildew resistant and washable strainer

The strainer can be easily and conveniently cleaned to keep clean indoor air.



Indoor unit of single discharge built-in air conditioner (EKCK-E1 series)

Standard condensate lifting pump with 700mm lift

Standard condensate lifting pump with 700mm lift, standard check valve and water level switch are provided to prevent flow backward of condensate, so as to be safer and realize more flexible mounting position.



Integrated design

The unit is provided with anti-aging ABS injection molding for molding at one time and water containing plate is externally provided with high-density insulation materials and has attractive appearance.

Ultra-thin fuselage

With small requirements for drop ceiling space, the unit can be mounted without height limit of the room and can be perfectly integrated with the decorations.



Ultra-wide air supply

Ultra-wide air supply, multiple swinging angles are set to increase air supply range.



Standard long-acting strainer

Effectively absorbing particles, improving indoor air quality and facilitating cleaning.

Indoor unit of single discharge built-in air conditioner

Unit model Coolin	Cooling	Heating	Air flow roto m3/b	Input	Doworowasły	Noise	Dimensions	Panel dimension	Mass	Connectio	n pipe spe	cification mm	Control
Unit model	kW	kW	All now rate m /n	power W	Power Suppry	dB(A)	(W×D×H) mm	(W×D×H) mm	kg	Liquid pipe	Gas piping	Drain pipe	mode
EKCK22E1	2.2	2.8	510/400/300	45	220V~50Hz	37~31	1054×425×169	1180×465×25	14	Φ6.35	Φ12.7	Ф26	otional) (al)
EKCK25E1	2.5	3.0	510/400/300	45	220V~50Hz	37~31	1054×425×169	1180×465×25	14	Φ6.35	Φ12.7	Ф26	troller (or in (optior
EKCK28E1	2.8	3.2	510/400/300	45	220V~50Hz	37~31	1054×425×169	1180×465×25	14	Φ6.35	Φ12.7	Ф26	note conf ch scree
EKCK32E1	3.2	3.6	510/400/300	45	220V~50Hz	37~31	1054×425×169	1180×465×25	14	Φ6.35	Φ12.7	Ф26	splay ren ler of tou
EKCK36E1	3.6	4.0	680/520/400	50	220V~50Hz	39~32	1054×425×169	1180×465×25	14	Φ6.35	Φ12.7	Ф26	rystal di e control
EKCK40E1	4.0	4.5	680/520/400	50	220V~50Hz	39~32	1054×425×169	1180×465×25	14	Φ6.35	Φ12.7	Φ26	Liquid c

Note: 1. Cooling capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;

 Heating capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;
Above noise values are measured at 1.4m part below central part of air conditioner in the semi-anechoic room; during actual operation, due to influence of external environment, noise value is slightly higher than the standard;

Indoor unit of double discharge built-in air conditioner (EKCK-G1 series)

Standard condensate lifting pump with 700mm lift

Standard condensate lifting pump with 700mm lift, standard check valve and water level switch are provided to prevent flow backward of condensate, so as to be safer and realize more flexible mounting position.



Ultra-thin fuselage

With small requirements for drop ceiling space, the unit can be mounted without height limit of the room and can be perfectly integrated with the decorations.



Indoor unit of double discharge built-in air conditioner

Linit model	Unit model Cooling Learning Capacity	Air flow rate m3/b	Input	Power europhy	Noise	Dimensions	Panel dimension	Mass	Connecti	on pipe spec	ification mm	Control	
Unit model	kW	kW	All now rate in /ii	power W	Power supply	dB(A)	(W×D×H) mm	(W×D×H) mm	kg	Liquid pipe	Gas piping	Drain pipe	mode
EKCK22G1	2.2	2.8	490/370/280	55	220V~50Hz	35~28	1140×575×290	1240×680×30	32	Φ6.35	Ф9.52	Ф26	
EKCK25G1	2.5	3.0	490/370/280	55	220V~50Hz	35~28	1140×575×290	1240×680×30	32	Φ6.35	Φ9.52	Ф26	ional) I)
EKCK28G1	2.8	3.2	490/370/280	55	220V~50Hz	35~28	1140×575×290	1240×680×30	32	Φ6.35	Φ9.52	Ф26	r (opti otiona
EKCK32G1	3.2	3.6	640/490/370	62	220V~50Hz	36~30	1140×575×290	1240×680×30	32	Φ6.35	Φ9.52	Ф26	trolle en (op
EKCK36G1	3.6	4.0	640/490/370	62	220V~50Hz	36~30	1140×575×290	1240×680×30	32	Ф6.35	Φ9.52	Ф26	e con scree
EKCK40G1	4.0	4.5	850/640/490	70	220V~50Hz	38~32	1140×575×290	1240×680×30	34	Φ6.35	Φ12.7	Ф26	remot
EKCK45G1	4.5	5.0	850/640/490	70	220V~50Hz	38~32	1140×575×290	1240×680×30	34	Ф6.35	Φ12.7	Ф26	play r er of t
EKCK50G1	5.0	5.6	850/640/490	70	220V~50Hz	38~32	1140×575×290	1240×680×30	34	Φ6.35	Φ12.7	Ф26	tal dis introll
EKCK56G1	5.6	6.3	1360/1050/800	110	220V~50Hz	41~36	1140×575×290	1240×680×30	34	Ф9.52	Φ15.88	Ф26	cryst lire co
EKCK63G1	6.3	7.1	1360/1050/800	110	220V~50Hz	41~36	1140×575×290	1240×680×30	34	Φ9.52	Φ15.88	Ф26	-iquid W
EKCK71G1	7.1	8.0	1360/1050/800	110	220V~50Hz	41~36	1140×575×290	1240×680×30	34	Ф9.52	Ф15.88	Ф26	_

Note: 1. Cooling capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C; Heating capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;
Above noise values are measured at 1.4m part below central part of air conditioner in the semi-anechoic room; during actual operation, due to influence of external environment, noise value is slightly higher than the standard;



Ultra-wide air supply

Ultra-wide air supply, multiple swinging angles are set to increase air supply range.



Standard long-acting strainer

Effectively absorbing particles, improving indoor air quality and facilitating cleaning.



Indoor unit of open mounted ceiling/floor type air conditioner (EKCE-B1 series)

Floor mounted or ceiling mounted, stylish and beautiful

Unit uses streamlined integrated fuselage design and is beautiful and stylish. It can meet different decoration styles flexibly by being suspended under the ceiling and installed at an appropriate position on the floor, thus achieving omnidirectional air supply.

Standard long-acting strainer

Effectively absorbing particles, improving indoor air quality and facilitating cleaning.

Intelligent three-dimensional air supply

Unit uses wide wind guide vanes and horizontal and vertical swing guide vane design to achieve a wide air supply range, uniform temperature field and excellent comfort.





Ease of installation and maintenance

The installation of refrigerant pipe, drain pipe and wiring can be performed efficiently on one side to reduce an installation period. Maintenance can be performed conveniently and quickly without the necessity of removing the ceiling.



Indoor unit of open mounted ceiling/floor type air conditioner

	Cooling	Heating	Air flow rate	Input			Dimensions	Mass	Connecti	on pipe spec	ification mm	Control
Unit model	capacity kW	capacity kW	m³/h	power W	Power supply	Noise dB(A)	(W×D×H) mm	kg	Liquid pipe	Gas piping	Drain pipe	mode
EKCE28B1	2.8	3.0	860	87	220V~50Hz	40/37/35	1055 × 675 × 235	24	Φ6.53	Ф12.7	Ф25	
EKCE32B1	3.2	3.6	860	87	220V~50Hz	40/37/35	1055 × 675 × 235	24	Φ6.53	Φ12.7	Φ25	
EKCE36B1	3.6	4.0	860	87	220V~50Hz	40/37/35	1055 × 675 × 235	24	Φ6.53	Φ12.7	Φ25	-
EKCE40B1	4.0	4.5	860	87	220V~50Hz	40/37/35	1055 × 675 × 235	24	Φ6.53	Φ12.7	Φ25	ptiona al)
EKCE45B1	4.5	5.0	960	92	220V~50Hz	42/40/37	1055 × 675 × 235	24	Φ6.53	Φ12.7	Φ25	ller (o)
EKCE50B1	5.0	5.6	960	92	220V~50Hz	42/40/37	1055 × 675 × 235	24	Φ6.53	Φ12.7	Φ25	contro reen (
EKCE56B1	5.6	6.3	960	92	220V~50Hz	42/40/37	1055 × 675 × 235	24	Φ6.53	Φ12.7	Φ25	mote (uch sc
EKCE63B1	6.3	7.1	1200	134	220V~50Hz	44/42/39	1055 × 675 × 235	25	Φ9.52	Φ15.88	Φ25	lay re
EKCE71B1	7.1	8.0	1200	134	220V~50Hz	44/42/39	1055 × 675 × 235	25	Φ9.52	Ф15.88	Φ25	al disp ntroller
EKCE80B1	8.0	9.0	1200	134	220V~50Hz	44/42/39	1055 × 675 × 235	25	Φ9.52	Φ15.88	Φ25	crysta re col
EKCE90B1	9.0	10.0	1600	142	220V~50Hz	48/46/43	1275 × 675 × 235	29	Φ9.52	Ф19.05	Φ25	M
EKCE100B1	10.0	11.2	1600	142	220V~50Hz	48/46/43	1275 × 675 × 235	29	Φ9.52	Ф19.05	Φ25	
EKCE112B1	11.2	12.5	2000	212	220V~50Hz	50/48/45	1635 × 675 × 235	38	Φ9.52	Φ19.05	Φ25	
EKCE125B1	12.5	14.0	2000	212	220V~50Hz	50/48/45	1635 × 675 × 235	38	Φ9.52	Ф19.05	Φ25	
EKCE140B1	14.0	16.0	2000	212	220V~50Hz	50/48/45	1635×675×235	38	Φ9.52	Ф19.05	Ф25	

Note: 1. Cooling capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C; 2. Heating capacities marked above are test results under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;

3. Above noise values are measured at 1.4m part below central part of air conditioner in the semi-anechoic room; during actual operation, due to influence of external environment, noise value is slightly higher than the standard;

Parameter table of outdoor unit

Unit model		EKRV080ER1-FY	EKRV100ER1-FY
Rated cooling capacity	kW	25.2	28.0
Rated heating capacity	kW	28.0	31.5
Rated cooling power	kW	5.85	6.90
Rated heating power	kW	5.97	7.07
Power supply			
Air flow rate	m³/h	12000	12000
Liquid pipe	mm	9.52	9.52
Gas piping	mm	19.05	22.2
Unit quality	kg	205	215
Noise	dB(A)	56	57
Refrigerant			
Dimensions W×D×H	mm		920×760×1640
Maximum running current	А	22.5	24.9

Unit model		EKRV200ER1-FY	EKRV220ER1-FY	EKRV240ER1-FY	EKRV260ER1-FY	EKRV280ER1-FY	EKRV300ER1-FY	EKRV320ER1-FY
Rated cooling capacity	kW	56.5	62.0	68.0	74.0	79.0	85.2	90.0
Rated heating capacity	kW	63.0	69.0	75.0	82.5	88.0	95.0	100.5
Rated cooling power	kW	15.03	16.55	17.24	18.99	20.84	22.40	23.45
Rated heating power	kW	15.12	16.76	17.92	19.68	21.21	22.73	23.83
Power supply					380V/3N~/50Hz			
Air flow rate	m³/h	24000	24000	24000	28000	28000	32000	32000
Liquid pipe	mm	15.88	15.88	15.88	19.05	19.05	19.05	19.05
Gas piping	mm	28.6	28.6	28.6	31.8	31.8	31.8	31.8
Unit quality	kg	355	365	370	480	485	510	515
Noise	dB(A)	61	61	62	62	62	63	63
Refrigerant					R410A			
Dimensions W×D×H	mm		1655×760×1640			1780×8	35×1640	
Maximum running current	А	47.1	48.6	51.6	64.9	66.1	71.1	73.5

Cooling capacities marked above are under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;
Heating capacities marked above are under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;

Above noise values are obtained by measuring operating noise at four sides of the unit according to half of total height of the unit height plus 1m at 1m part surrounding the air conditioner in the semi-anechoic chamber; during actual operation, due to influence of external environment, noise value and the standard will be slightly higher;

It's recommended to select the specifications of electric wirings according to maximum running current.

34.0 40.0 45.0 51 37.5 45.0 50.5 57 8.62 10.37 12.22 13.55 8.96 10.72 12.25 13.62 380V/3N~/50Hz 12000 16000 16000 16000 12.7 127 127 15.88 25.4 25.4 28.6 28.6 235 315 325 345 60 60 60 61 R410A 1140×835×1640 40.3 45.2 25.8 39.1

Parameter table of outdoor unit

Unit model (*FY)		EKRV340ER1	EKRV360ER1 EKRV380ER1		EKRV400ER1	EKRV420ER1	EKRV440ER1	EKRV460ER1
Recommended combination r	node (HP)	16+18	18+18	14+24	14+26	16+26	18+26	16+30
Rated cooling capacity	kW	96.0	102.0	108.0	114.0 11		125.0	130.2
Rated heating capacity	kW	107.5	114.0	120.0	127.5	133.0	139.5	145.5
Rated cooling power	kW	25.77	27.10	27.61	29.36	31.21	32.54	34.62
Rated heating power	kW	25.87	27.24	28.64	30.40	31.93	33.30	34.98
Power supply			380V/3N~/50Hz					
Air flow rate	m³/h	32000	32000	40000	44000	44000	44000	48000
Liquid pipe	(Φ)mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05
Gas piping	(Φ) mm	31.8	38.1	38.1	38.1	38.1	38.1	38.1
Unit quality	kg	670	690	685	795	805	825	835
Noise	dB(A)	63	63	63	63	64	64	64
Refrigerant					R410A			
Dimensions W×D×H	mm	(1140+1140)	×835×1640		(1	140+1780)×835×1	640	
Maximum running current	А	85.5	90.4	90.7	104.0	105.2	110.1	111.4

Unit model (*FY)		EKRV480ER1	EKRV500ER1 EKRV520		EKRV540ER1	EKRV560ER1	EKRV580ER1		
Recommended combination r	node (HP)	18+30	18+32	16+18+18	18+18+18	26+30	28+30		
Rated cooling capacity	kW	136.2	141.0	147.0	153.0	159.2	164.2		
Rated heating capacity	kW	152.0	157.5	164.5	171.0	177.5	183.0		
Rated cooling power	kW	35.95	37.00	39.32	40.65	41.39	43.24		
Rated heating power	kW	36.35	37.45	39.49	40.86	42.41	43.94		
Power supply		380V/3N~/50Hz							
Air flow rate	m³/h	48000	48000	48000	48000	60000	60000		
Liquid pipe	(Φ)mm	19.05	19.05	19.05	19.05	19.05	19.05		
Gas piping	(Φ)mm	38.1	38.1	38.1	38.1	41.3	41.3		
Unit quality	kg	855	860	1015	1035	990	995		
Noise	dB(A)	64	65	65	65	65	66		
Refrigerant		R410A							
Dimensions W×D×H	mm	(1140+1780)	×835×1640	(1140+1140+11	140)×835×1640	(1780+1780)×835×1640			
Maximum running current	А	116.3	118.7	130.7	135.6	136.0	137.2		

Cooling capacities marked above are under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;
Heating capacities marked above are under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;
Above noise values are obtained by measuring operating noise at four sides of the unit according to half of total height of the unit height plus 1m at 1m part surrounding the air conditioner in the semi-anechoic chamber; during actual operation, due to influence of external environment, noise value and the standard will be slightly higher;
It's recommended to select the specifications of electric wirings according to maximum running current.

Parameter table of outdoor unit

Unit model (*FY)		EKRV600ER1	EKRV620ER1	EKRV640ER1	EKRV640ER1(推荐)	EKRV660ER1	EKRV680ER1		
Recommended combination mo	de (HP)	30+30	30+32	32+32	16+18+30	18+18+30	18+18+32		
Rated cooling capacity	kW	170.4	175.2	180.0	181.2	187.2	192.0		
Rated heating capacity	kW	190.0	195.5	201.0	202.5	209.0	214.5		
Rated cooling power	kW	44.80	45.85	46.90	48.17	49.50	50.55		
Rated heating power	kW	45.46	46.56	47.66	48.60	49.97	51.07		
Power supply		380V/3N~/50Hz							
Air flow rate	m³/h	64000	64000	64000	64000	64000	64000		
Liquid pipe	(Φ)mm	19.05	19.05	19.05	19.05	19.05	22.23		
Gas piping	(Φ)mm	41.3	41.3	41.3	41.3	41.3	44.5		
Unit quality	kg	1020	1025	1030	1180	1200	1205		
Noise	dB(A)	66	66	66	66	66	66		
Refrigerant		R410A							
Dimensions W×D×H	mm	(1	780+1780)×835×164	0	(1140+1140+1780)×835×1640				
Maximum running current	А	142.2	144.6	147.0	156.6	161.5	163.9		

Unit model (*FY)		EKRV700ER1	EKRV720ER1	EKRV740ER1	EKRV760ER1	EKRV780ER1	EKRV800ER1	EKRV820ER1		
Recommended combination mode (HP)		18+26+26	16+26+30	18+26+30	16+30+30	18+30+30	18+30+32	18+32+32		
Rated cooling capacity	kW	199.0	204.2	210.2	210.2 215.4		226.2	231.0		
Rated heating capacity	kW	222.0	228.0	234.5	240.5	247.0	252.5	258.0		
Rated cooling power	kW	51.53	53.61	54.94	57.02	58.35	59.40	60.45		
Rated heating power	kW	52.98	54.66	.66 56.03 57.71		59.08	60.18	61.28		
Power supply		380V/3N~/50Hz								
Air flow rate	m³/h	72000	76000	76000 80000 8000		80000	80000	80000		
Liquid pipe	(Φ)mm	22.23	22.23	25.4	25.4	25.4	25.4	25.4		
Gas piping	(Φ) mm	44.5	44.5	50.8	50.8	50.8	50.8	50.8		
Unit quality	kg	1305	1315	1335	1345	1365	1370	1375		
Noise	dB(A)	66	66	66	66	66	66	66		
Refrigerant		R410A								
Dimensions W×D×H	mm		(1140+1780+1780) × 835 × 1640							
Maximum running current	А	175.0	176.3	181.2	182.5	187.4	189.8	192.2		

Cooling capacities marked above are under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;
Heating capacities marked above are under working conditions of indoor dry/wet bulb temperature 20/15°C and outdoor dry/wet bulb temperature 7/6°C;
Above noise values are obtained by measuring operating noise at four sides of the unit according to half of total height of the unit height plus 1m at 1m part surrounding the air conditioner in the semi-anechoic chamber; during actual operation, due to influence of external environment, noise value and the standard will be slightly higher;
It's recommended to select the specifications of electric wirings according to maximum running current.

Parameter table of outdoor unit

Unit model (*FY)	EKRV840ER1	EKRV860ER1	EKRV880ER1	EKRV900ER1	EKRV920ER1	EKRV940ER1	EKRV960ER1			
Recommended combination mode (HP)		26+28+30	26+30+30	28+30+30	30+30+30	30+30+32	30+32+32	32+32+32			
Rated cooling capacity	kW	238.2	244.4	249.4	255.6	260.4	265.2	270.0			
Rated heating capacity	kW	265.5	272.5	278.0	285.0	290.5	296.0	301.5			
Rated cooling power	kW	62.23	63.79	65.64	67.20	68.25	69.30	70.35			
Rated heating power	kW	63.62	65.14	66.67	68.19	69.29	70.39	71.49			
Power supply		380V/3N~/50Hz									
Air flow rate	m³/h	88000	92000	92000	96000	96000 96000		96000			
Liquid pipe	(Φ)mm	25.4	25.4	25.4	25.4	25.4	25.4	25.4			
Gas piping	(Φ)mm	50.8	50.8	50.8	50.8	50.8	50.8	50.8			
Unit quality	kg	1475	1500	1505	1530	1535	1540	1545			
Noise	dB(A)	66	66	66	66	66	66	66			
Refrigerant			R410A								
Dimensions W×D×H	mm			(1780-	+1780+1780) × 835	×1640					
Maximum running current	А	202.1	207.1	208.3	213.3	215.7	218.1	220.5			

Cooling capacities marked above are under working conditions of indoor dry/wet bulb temperature 27/19°C and outdoor dry/wet bulb temperature 35/24°C;

Heating capacities marked above are under working conditions of indoor dry/wet bulb temperature 20/15° C and outdoor dry/wet bulb temperature 7/6°C;
Above noise values are obtained by measuring operating noise at four sides of the unit according to half of total height of the unit height plus 1m at 1m part surrounding the air conditioner in the semi-anechoic chamber; during actual operation, due to influence of external environment, noise value and the standard will be slightly higher;

It's recommended to select the specifications of electric wirings according to maximum running current

Piping dimension

Unit[.] mm

Capacity of	Main pipe dimension (Equivalent piping length<90m)			(Equ	Main pipe dimension (Equivalent piping length≥90m)			Piping c	Applicable branch pipe	
outdoor unit	Liquid pipe	Gas piping	First indoor branch pipe	Liquid pipe	Gas piping	First indoor branch pipe	A (kW)	Liquid pipe	Gas piping	- Applicable branch pipe
8HP	Φ9.52	Φ19.05	ACRV-BP03	Φ12.7	Ф22.23	ACRV-BP03	A<16kW	Φ9.52	Φ15.88	ACRV-BP01
10HP	Φ9.52	Ф22.23	ACRV-BP03	Ф12.7	Φ25.4	ACRV-BP04	16≤A<22kW	Φ9.52	Φ19.05	ACRV-BP02
12-14HP	Ф12.7	Φ25.4	ACRV-BP03	Φ15.88	Ф28.6	ACRV-BP04	22≤A<33kW	Φ9.52	Φ22.23	ACRV-BP03
16HP	Φ12.7	Φ28.6	ACRV-BP04	Φ15.88	Ф31.8	ACRV-BP05	33≤A<51kW	Ф12.7	Φ28.6	ACRV-BP04
18-24HP	Φ15.88	Φ28.6	ACRV-BP04	Φ19.05	Φ31.8	ACRV-BP05	51≤A<74kW	Φ15.88	Φ28.6	ACRV-BP05
26-34HP	Φ19.05	Φ31.8	ACRV-BP05	Φ22.23	Φ38.1	ACRV-BP06	74≤A<102kW	Φ19.05	Ф31.8	ACRV-BP05
36-54HP	Φ19.05	Φ38.1	ACRV-BP05	Φ22.23	Φ41.3	ACRV-BP07	102≤A<155kW	Φ 19.05	Φ38.1	ACRV-BP05
56-66HP	Φ19.05	Φ41.3	ACRV-BP07	Φ22.23	Φ44.5	ACRV-BP08	155≤A<187kW	Φ19.05	Φ41.3	ACRV-BP07
68-72HP	Φ22.23	Φ44.5	ACRV-BP08	Φ25.4	Φ50.8	ACRV-BP09	187≤A<205kW	Φ22.23	Φ44.5	ACRV-BP08
74-96HP	Φ25.4	Φ50.8	ACRV-BP09	Φ28.6	Φ54	ACRV-BP09	A≥205kW	Φ25.4	Φ50.8	ACRV-BP09

Note: For dimensions of main pipe and gas/liquid pipes of outdoor unit selected in above table, the larger pipe diameter should be used as main pipe dimension.

Selection of branch pipe between outdoor units



o indoor unit _____

Combined model of two modules (outdoor unit capacity: $A \ge B$)

Outdoor unit capacity	34~50HP	56~64HP
Branch pipe model	ACRV-BP05	ACRV-BP07

Combined model of three modules (outdoor unit capacity: A≥B≥C)

Outd	oor unit capacity	52~54HP	64~66HP	68~72HP	74~82HP	84~96HP
Bran	ch pipe 1 model	ACRV-BP05	ACRV-BP07	ACRV-BP08	ACRV-BP09	ACRV-BP09
Bran	ch pipe 2 model	ACRV-BP05	ACRV-BP05	ACRV-BP05	ACRV-BP05	ACRV-BP07

unit that are closer to the side of refrigerant pipe to indoor unit has a larger capacity

Fresh air system

With annually increasing living standards, people have higher and higher requirements for indoor air quality, i.e. suitable indoor temperature and hoping to introduce outdoor fresh air to keep clean indoor air. EK provides two fresh air solutions of air conditioning, so as to bring about clean, fresh and healthy enjoyment for our valued customers focusing on air quality.

Total fresh air treatment unit

- Total fresh air treatment unit is self-provided with cold and hot sources. which can be used to treat outdoor fresh air to approximately reach indoor temperature and then supply it to the indoor. Air flow rate is 1100~6000m3/h, which can satisfy requirements for fresh air on different occasions, so as to enable you to enjoy fresh and healthy air without going out.
- It also has automatic energy-saving operation mode. If outdoor temperature is 15°C~20°C, fresh air processer can automatically switch to air supply mode and stop outdoor unit (if in parallel serial, outdoor unit only needs to assume the capacity of indoor unit of air conditioning), so as to greatly reduce operation costs.
- Fresh air processing unit and ordinary indoor unit can be controlled through central wire controller.
- · Fresh air processing unit can be connected to central control and management system of EK multi-split air conditioner and building automatic control system of the building.
- Capacity of fresh air processing unit connecting to same system as the ordinary indoor unit of air conditioning should not exceed 30% of those connecting to the outdoor unit; meanwhile, total capacity of fresh air processor and indoor unit of air conditioning should be no more than the capacity of outdoor unit.
- In the one-towing-more connection mode, multiple fresh air machines can be connected to the same system. Total capacity of fresh air processing units should be no more than the capacity of outdoor unit.

	Cooling	Heating	Air flow	External static		Deverage		Dimensions	Mass	Connection pipe specification n			Control
Unit model	capacity kW	capacity kW	rate m³/h	pressure Pa	Input power W	Power supply	Noise dB(A)	(W×D×H) mm	kg	Liquid pipe	Gas piping	Drain pipe	mode
EKDB140B1X	14.0	10.0	1100	200	297	220V~50Hz	44	798x950x470	65	Φ9.52	Ф15.88	R1	
EKDB250B1X	25.0	17.0	1700	150/200/250	550/600/650	220V~50Hz	45/47/49	1389x950x470	110	Φ9.52	Φ19.05	R1	dard)
EKDB250B1X	25.0	17.0	2000	150/200/250	650/660/710	220V~50Hz	45/48/50	1389x950x470	110	Ф9.52	Φ19.05	R1	stand
EKDB280B1X	28.0	20.0	2100	150/200/250	700/770/800	220V~50Hz	45/48/50	1389x950x470	120	Φ9.52	Ф22.23	R1	reen (
EKDB280B1X	28.0	20.0	2500	150/200/300	480/564/792	380V/3N~50Hz	52/55/58	1389x950x470	135	Φ9.52	Φ22.23	R1	ch sc
EKDB280B1X	28.0	20.0	3000	200	760	380V/3N~50Hz	56	1389x950x470	135	Φ9.52	Φ22.23	R1	of tou
EKDB335B1X	33.5	26.4	2700	150/220	915/1100	220V~50Hz	52/55	1389x950x470	120	Φ12.7	Φ25.4	R1	oller (
EKDB450B1X	45.0	32.0	4000	200/300	850/1250	380V/3N~50Hz	58/61	1580x1020x520	150	Φ12.7	Φ28.6	R1	contr
EKDB560B1X	56.0	39.0	5000	200/250/300/350	1250/1500/1700/2000	380V/3N~50Hz	58/58/61/61	1580x1020x520	150	Φ15.88	Ф28.6	R1	Wire
EKDB560B1X	56.0	39.0	6000	200/250/300/350	1400/1600/1800/2200	380V/3N~50Hz	60/60/62/62	1580x1020x520	150	Φ15.88	Φ28.6	R1	

Note: • Rated cooling capacity is based on the followings: outdoor temperature 33°CDB, 28°CWB(68%RH) equivalent refrigerant pipe length: 7.5m (horizontal);

- Rated heating capacity is based on the followings: outdoor temperature 0°CDB, -2.9°CWB(50%RH) equivalent refrigerant pipe length:7.5m (horizontal);
- · Data of rated heating capacity are obtained without defrosting





Spacious work area

Large meeting room



• Not all models of fresh air processing units are recommended to be parallel serial.

For specific parallel serial requirements, please consult EK technology engineer:

Noise value is measured before delivery. During actual usage, due to ambient noise

or other reasons, measured noise may be different from values listed in the table.





Luxurious corridor

Total heat exchanger

Bilateral ventilation function

Indoor dirty air can be drained to the outdoor along with supplying outdoor fresh air into indoor, so as to create a healthy indoor environment.

• Total heat recovery function

A special built-in total heat exchange element is provided to exchange heat without mixing between drain air and supplied outdoor fresh air. Maximum temperature recovery rate is up to 76% and maximum enthalpy exchange rate is up to 74%, so as to greatly reduce fresh air load of air conditioning system.

• Achieving combined control with indoor unit of air conditioning

Total heat recovery fresh air unit and other EK air conditioning systems can be jointly and centrally controlled without affective normal operation of other units.

• Various optional parts

Activated carbon filter and ultraviolet sterilisation lamp can be selected as required to create a better healthy indoor environment.

	Fres	h air flow	External static	Enthalpy rec	covery rate %	Temperature	Noise					
Unit model		te m³/h	pressure Pa	Summer	Winter	recovery rate %	dB(A)	Power supply	Rated power W	Rated current A	Net weight kg	
	High	200	75	55	59	70	27					
EKHR020HH	Medium	200	70	55	59	70	25		105	0.5	23	
	Low	150	60	60	63	75	22					
	High	300	85	57	61	68	30					
EKHR030HH	Medium	300	82	57	61	68	27		117	0.56	25	
	Low	250	75	62	65	73	23					
	High	400	90	57	60	69	32					
EKHR040HH	Medium	400	85	57	60	69	29		150	0.72	31	
	Low	350	80	62	65	74	25					
	High	600	100	59	61	70	35					
EKHR060HH	Medium	600	92	59	61	70	31		200	0.96	36	
	Low	500	89	63	67	76	25					
	High	800	100	55	58	68	39					
EKHR080HH	Medium	800	96	55	58	68	37		355	1.7	60	
	Low	700	92	58	63	74	32					
	High	1000	100	58	62	70	40					
EKHR100HH	Medium	1000	85	58	62	70	36		440	2.1	70	
	Low	900	80	60	64	76	32					
	High	1300	100	56	59	70	42	220V~50Hz				
EKHR130HH	Medium	1300	85	56	59	70	40		710	3.4	79	
	Low	1000	75	58	62	76	37					
	High	1500	160	66	70	71	45		785	3.8		
EKHR150HH	Medium	1500	135	66	70	71	42		740	3.6	110	
	Low	1000	84	69	74	75	40		485	2.3		
	High	2000	170	62	71	71	49		1020	4.8		
EKHR200HH	Medium	2000	132	62	71	71	46		980	4.6	110	
	Low	1200	110	65	73	75	44		650	3.0	112	
	High	2500	200	61	70	70	53		1300	6.3		
EKHR250HH	Medium	2500	170	61	70	70	50		1250	6.0	400	
	Low	2000	140	64	72	73	47		940	4.5	130	
	High	3000	210	60	69	70	54		1950	9.0		
EKHR300HH	Medium	3000	180	60	69	70	51		1870	8.7	142	
	Low	2500	150	63	71	73	48		1400	6.5		
EKHR400HH		4000	260	62	69	70	59		3000	7.5	240	
EKHR500HH		5000	260	61	64	70	68	380V/3N~50Hz	3000	8.3	300	
EKHR600HH		6000	300	60	62	68	70		4400	12.7	305	

Note: 1. Running noise is measured at 1.4m below the center of the unit;

2: 1. Kunning noise is measured at 1.4m below the center of the unit;
2. EKHR300HH and above models can be used to realize three-speed regulation; EKHR020~130HH has air flow rate bypass function;
3. Running noise of three-range air velocity of unit fan is measured by a nationally recognized noise laboratory. During actual operation, due to ambient noise, running noise value of the unit is generally higher than this value;
4. Above values are horizontal parameters of H series. For parameters of other EKHR series, please consult EK technology personnel.

