

EUROKLIMAT SpA

Factory Italy

Via Liguria, 8
27010 Siziano (PV) Italy

T +39 038 2610282
F +39 038 2617782

www.euroklimat.it



Guangdong Euroklimat
Air-Conditioning & Refrigeration Co., Ltd.

Factory China

Euroklimat Industrial Park,
Huangjiang, Dongguan, Guangdong, China

T +86 0769 8366 0888
F +86 0769 8362 2528

www.euroklimat.com

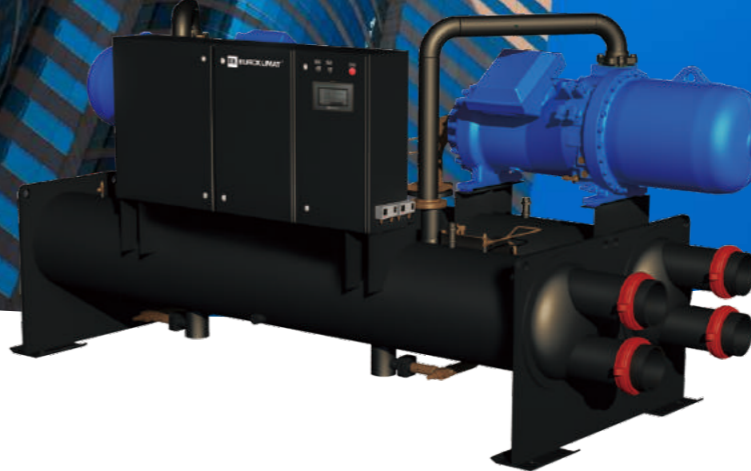


The data are indicative and not binding. Euroklimat reserves the right to make changes at any time without notice.



Give life to building , bring us back to nature

EKSC falling film water cooled screw chiller



EKSC falling film water cooled screw chiller

www.euroklimat.com



www.tahviesam.com



EK Air-Conditioning, energy-saving and environmental protection technology from Europe

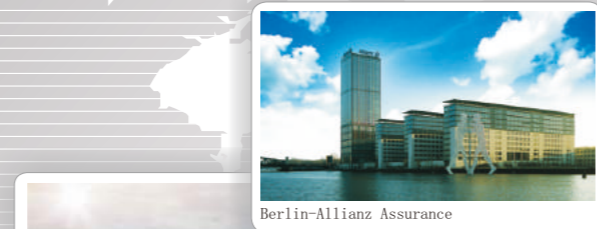
Established in 1963 in Italy, Euroklimat Group is a well-known European supplier of professional refrigeration and air-conditioning equipments. After development for half a century, continuous innovation and exploitation, it has become a name card for energy-saving air-conditioners in Italian, Spanish and even European markets.

As a joint venture between CASIC and Euroklimat Group in China, EK China is the manufacturing base and sales service organization of EUROKLIMAT Group in Asia. It has EK industrial parks which cover nearly 100,000 square meters and 50,000 square meters respectively in Dongguan and Tianjin. The whole line of products are introduced with Europe's leading air-conditioning technologies and manufacturing processes and provides Chinese customers with the same quality products.

EK air-conditioners are distributed in 35 sales and service organizations of China. The one-stop service hotline (400-188-1963) provides Chinese customers with 24-hour direct service. Adhering to the social commitment of energy conservation and environmental protection, EK Air-Conditioning will continue to research and develop comfortable and energy-saving air-conditioning products and work together with its partners to create a better future.

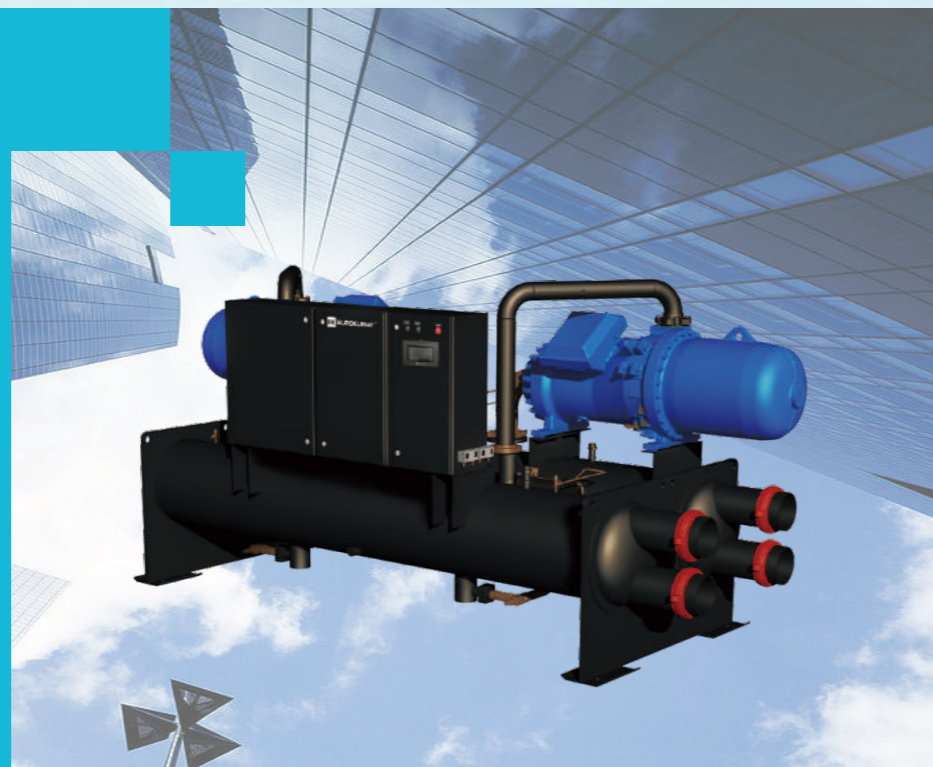
intertek UKAS
ISO9001: 2015 Enterprise Quality Management System Certification
intertek UKAS
ISO14001: 2015 Environmental Management System Certification
IAC-MIRA CNAS
Detection CNAS L5123
CVC OHSMS
OHSAS18001 Occupational Health Management System Certification
China CRAA Certification

56
EK EUROKLIMAT[®]
Fifty-six years of Air-conditioning



EKSC falling film water cooled screw chiller

Adhering to the essence of European leading screw water chilling unit design, EKSC falling film water cooled screw chiller unit gathers the scientific and technical achievements for system matching and manufacturing of water chilling unit designed by EK Air-Conditioning for more than 40 years, adopts world-known high-efficiency double-screw compressor, R134a environmental friendly refrigerant, high-efficiency, high-falling film evaporation technology and is supplemented by EK's cutting-edge micro-computer control technology. It is a "super" product that embodies EK's brand concept of energy saving and environmental protection. It features high-efficiency operation, system reliability and low noise. It is the preferred central air conditioning system for many large and medium-sized public and civil buildings, such as high-end hotels, office buildings, schools, hospitals, factories and enterprises.



Unit naming

EKSC 062 A R 3 J ST - F AA

1 2 3 4 5 6 7 8 9

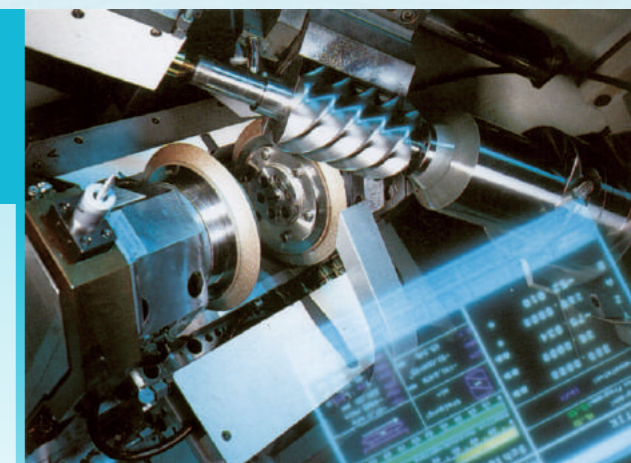
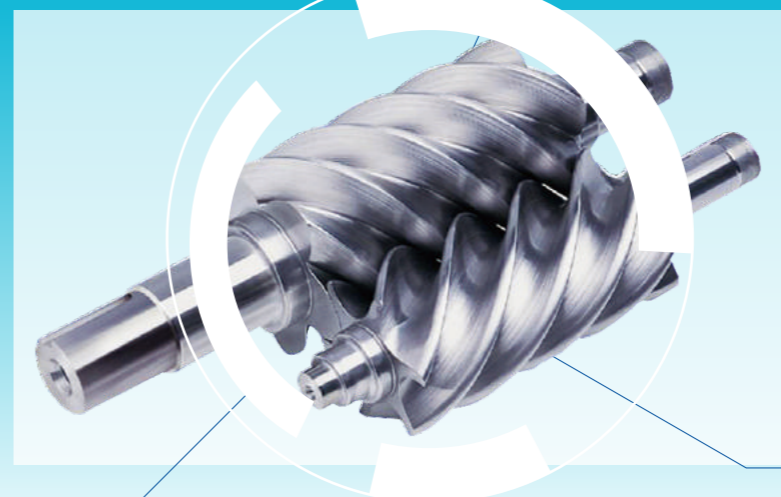
1. EKSC EK water cooled screw chiller
2. 062 Cooling capacity code
3. A Design serial number
4. R Function form; R: Heat pump type; Cooling only unit default
5. 3 Refrigerant code; 3: R134a; R22 default
6. J Evaporator form; J: Falling film
7. ST Product design function; ST standard type, XE high-efficiency type
8. F Power supply properties; F: 380V/3~/50Hz
9. AA Specific description for product specification changes



Cutting-edge double-screw compressor technology Efficient and stable

Patented rotor

The high-efficiency double-screw compressor adopts the newly developed 5:6 asymmetric rotor profile and uses the patented production process for rotor processing to ensure rotor processing precision and fit clearance, long-term, efficient, safe and reliable unit operation.



Simple oil return

The differential pressure oil return of unique compressor is designed for simple oil return. The oil pump is not required to ensure the oil return safety of the compressor.

Bearing

Low-pressure bearing housing is designed for long-life bearing. Axial bearing is a duplex bearing. Double-axis pressure-bearing bearing decompression design makes the bearing solid and durable. Sealing design is conducted for bearing cavity to separate bearing housing from high pressure and ensure the viscosity of the lubricating oil in the bearing cavity. Excellent lubricant way can fully lubricate the bearing, effectively improving the service life of the bearing and ensuring the safe unit operation.

Safe oil way

With an innovative built-in oil separator, its internal structure adopts a three-stage oil filtering mechanism and is combined with high-density oil screen to achieve the best oil and gas separation, and the efficiency is up to 99.99%. The oil way is equipped with oil way filter and high-precision metal filter screen for long-lasting 10µm filtration and fully filtering the oil way impurities. In addition, the compressor is equipped with an oil level switch to accurately detect the internal oil level of the compressor and ensure safe operation of the compressor.

Motor

A world-known high-efficiency two-pole three-phase F-class insulated induction motor is used. It is equipped with a PTC thermistor and an imported intelligent motor protection module to protect the motor. It can accurately monitor the coil temperature of the compressor motor and ensure the normal operation of the compressor. The unique internal heat dissipation runner design ensures long-term operation of the motor within the compressor operation range, featuring a wider operation range.

Stepless regulation

The unit adopts a sliding valve load-increasing and decreasing device. The sliding valve mechanism is equipped with international brand high-reliability solenoid valve for precise control. Stepless regulation can be conducted in the range between 10%~100%. Thus, the unit can perfectly match with the actual load, ensuring its high-efficiency operation, providing a comfortable environment and realizing energy-saving.

Double-layered enclosure

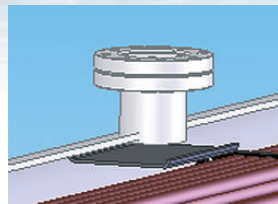
The double-layered enclosure made of grey cast iron is precisely processed by a MC machine tool, and the processing accuracy is measured by 3-D precision measuring instrument to ensure that the gap and precision between compressors can meet the requirements of high-efficiency calculation. Double-layered body design meets the pressure resistance requirement and can reduce noise. Its high strength and rigidity design makes the compressor run for a long time without danger.

Suction filter

The double-layered suction filter is designed to feature high strength and low pressure loss, which can fully protect the compressor.

High-efficiency heat exchanger design for more efficient heat transfer

The condenser adopts the latest high-efficiency condensing heat transfer technology. With the optimized refrigerant distribution, it is equipped with high-efficiency heat exchange copper pipes with double-side enhanced heat transfer to ensure the optimal flow rate between the refrigerant and the water flow, strengthen the heat transfer between water side and refrigeration side and make the heat transfer efficiency higher.



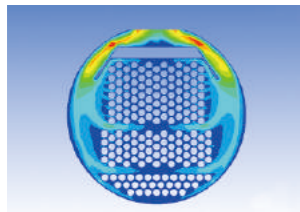
Current sharing structure



High-efficiency heat exchange copper pipe

- Set up gas baffle: Reduce the impact of air flow on heat exchanger pipe, make the air flow distribute evenly and strengthen the condensation effect.
- High-efficiency heat exchange copper pipe can quickly drop the condensate, reduce the film thickness of condensate, greatly reduce heat transfer resistance and improve heat transfer efficiency.

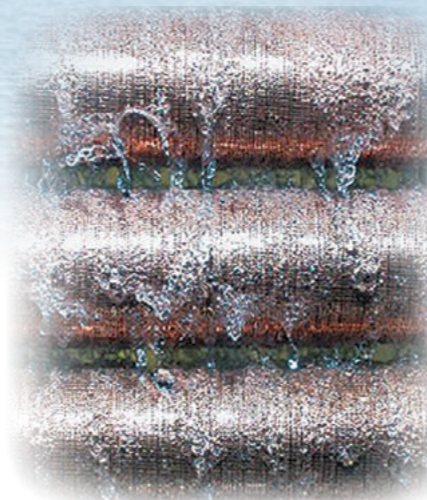
The evaporator is designed with high-falling film evaporation technology. Spraying technology and high-efficiency copper pipe with enhanced heat exchange inside and outside are used to realize complete film evaporation of the refrigerant on the surface of the high-efficiency heat exchange pipe. It can greatly improve the overall heat transfer efficiency of the unit. The heat transfer efficiency of the unit is 15% higher than that of the traditional hydraulic filling. The unit basically realizes zero liquid level in the evaporator. The refrigerant charging amount is greatly reduced.



Spraying technology



Local chart for copper pipe with high-efficiency heat exchange



Electronic expansion valve throttling, accurate control

The whole series adopts the throttling control of the world-known brand electronic expansion valve, which can accurately control the flow of refrigerant and ensure that the unit can perform well under full load or partial load. The rapid response of electronic expansion and the wide adjustment range can ensure that the unit can make full use of the heat transfer area of the evaporator in any working condition. It can achieve the best heat transfer effect, ensure the high-efficiency operation of the unit and significantly improve the efficiency of part of the unit load.

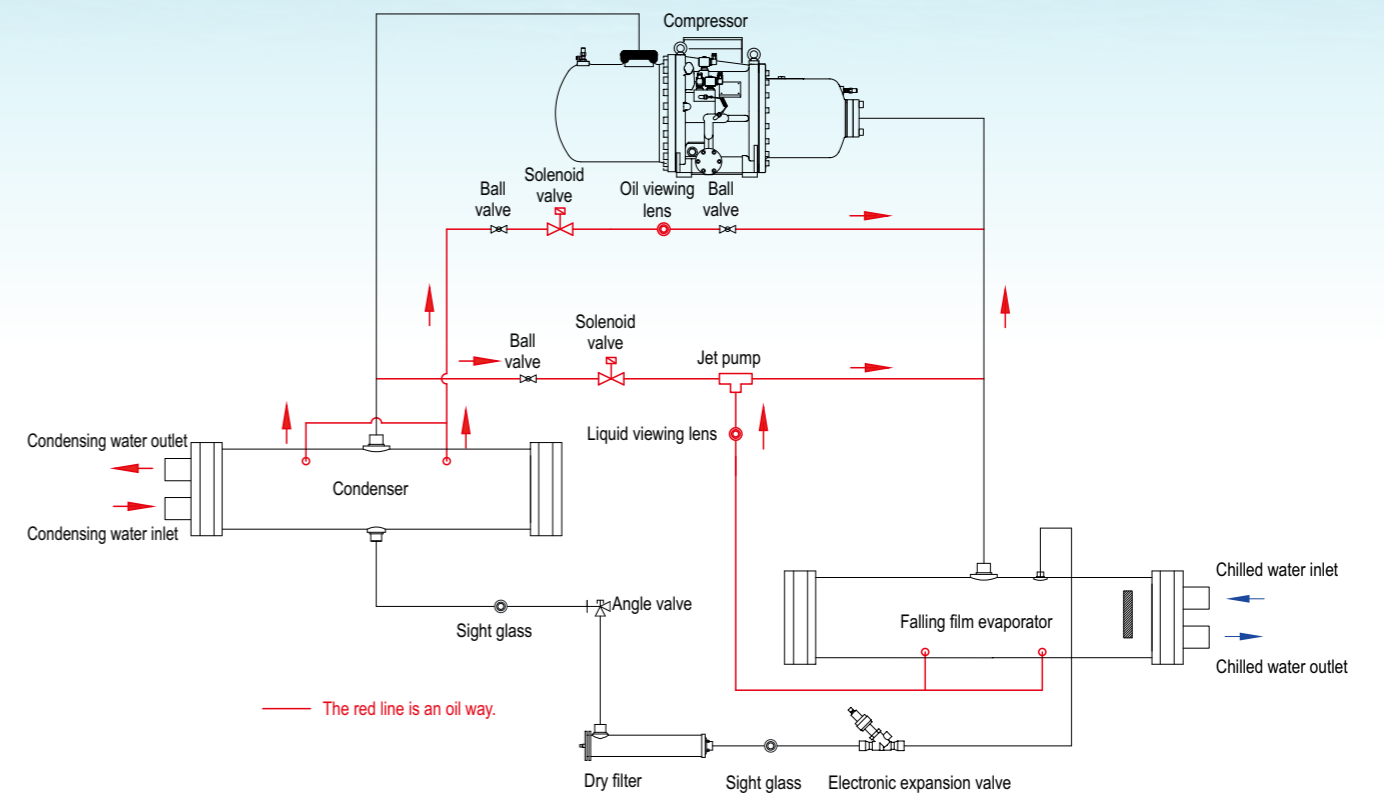


Advanced, stable and reliable oil way control technology

The compressor is equipped with a three-stage oil separator. The condenser is equipped with a high-efficiency oil separator, and the oil separation efficiency is over 99.99%. The double oil separation ensures that the unit does not affect the oil separation effect under various severe working conditions and some load conditions, effectively reduces the refrigerant oil amount of the heat exchange system and improves the heat exchange efficiency of the unit.

Oil return of oil separator and evaporator jet pump and double oil return system ensure that the oil level of the compressor is normal, there is no oil in the evaporator and the unit runs stably, safely and reliably.

Differential pressure oil supply is available. External oil pump is not required, which can achieve good lubrication effect of various moving parts of the compressor.



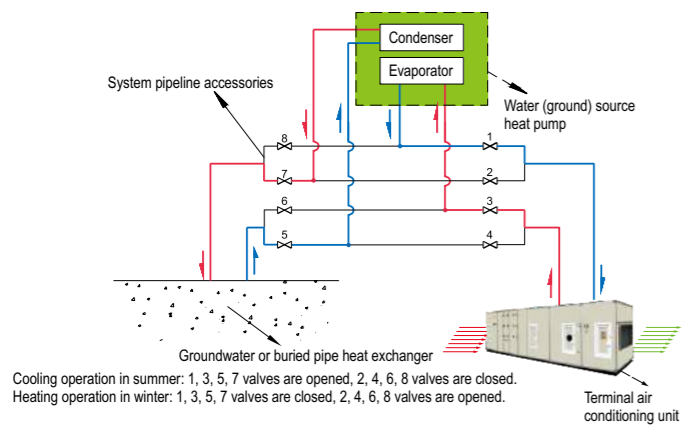
R134a environmentally friendly refrigerant, energy saving and environmental protection

The new generation EKSC high-efficiency water chilling unit designed with R134a environmentally friendly refrigerant adopts high-falling film high-efficiency evaporation and heat transfer technology, saving refrigerants, ensuring high-efficiency operation under full load and partial load and saving energy for customers without destroying the ozone layer. It is green, healthy, energy-saving and environmental!



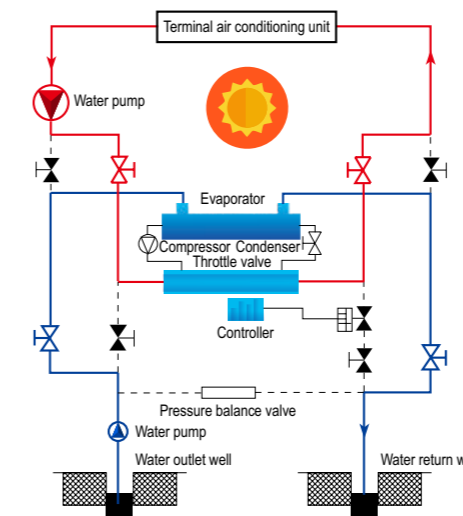
>> **Heat pump (optional)**
Green, environmental and energy-saving

Classification



Water (ground) source heat pump systems can be divided into three categories according to the medium of energy extraction:

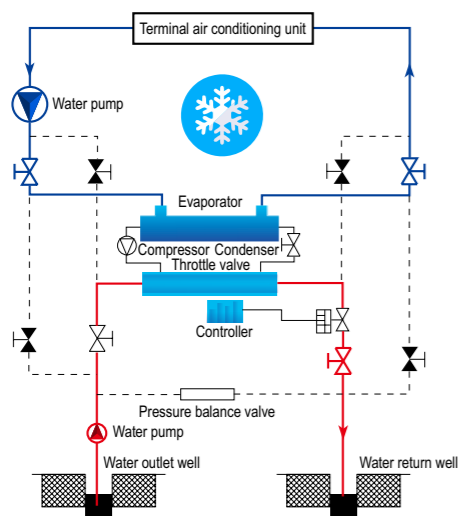
1. Groundwater system (open circulation "well water" system)
2. Soil buried pipe system (geothermal source closed circulation system)
3. Surface water system (surface water or lake water circulation system)



Heating in winter (optional)

When heating is conducted by the unit in winter, the well water enters the evaporator of the EKSC water (ground) source unit as a heat-absorbing source. The refrigerant evaporates in the evaporator and absorbs the heat in the well water, and the well water is recirculated into the ground. After the refrigerant is compressed by the compressor, it becomes an overheated gas of high temperature and pressure, enters the condenser and heats the circulating water to obtain the hot water of 45°C-55°C.

System flow chart

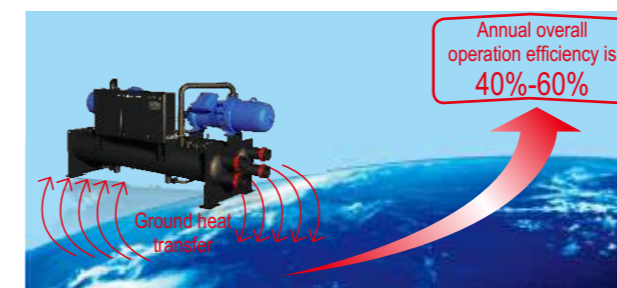


Cooling in summer

When cooling is conducted by the unit in summer, the well water enters the condenser of the EKSC water (ground) source unit as an exothermic source. The refrigerant evaporates in the evaporator and absorbs the heat of the water in the refrigeration system, providing the building with 7 chilled water. After the refrigerant is compressed by the compressor, it enters the condenser of the unit, and the well water takes away the heat and is recirculated into the ground.

High-efficiency and energy-saving

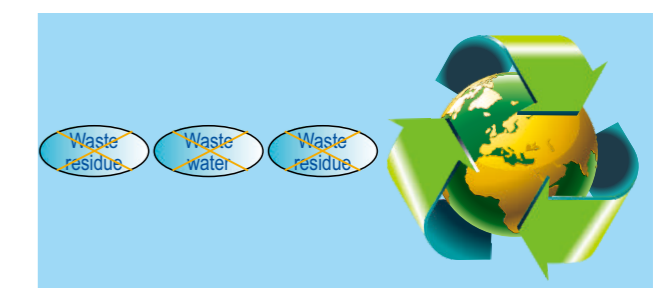
The heat exchanger of the EKSC water (ground) source heat pump system exchanges the heat with the ground to reduce the consumption of primary energy. The heat exchange efficiency is efficient and stable, and it is basically not affected by the external environment. The annual overall operation efficiency of the system is 40%~60% higher than the traditional central air conditioning system. It is high-efficiency and energy-saving.



Green and environmental

The EKSC water (ground) source heat pump system does not require any boilers when providing heat in winter. The system does not discharge any waste gas, waste water and waste residue to the outside world. It complies with national energy and environmental protection policies and is currently the ideal "green air conditioner".

R134a environmentally friendly refrigerant unit can be selected, operate efficiently under full load and partial load, save energy and protect the environment. It does not destroy the ozone layer and actively responds to environmental protection requirements.



>> Intelligent control
More humanized control

The large-screen LCD microcomputer digital control developed by EK Air-Conditioning has greatly improved the efficiency and provided the unit with monitoring, data recording, security protection and convenient operation.

- The outlet water temperature of the chilled water is precisely controlled to $\pm 0.2^{\circ}\text{C}$. The system sensors can accurately transmit the signal data to the controller, so that the controller can protect the unit components in time and make the unit operation more reliable.
- Three-level password protection is available to prevent non-professionals from misoperation and ensure safe operation of the unit. Multiple protection functions can ensure safe operation of the unit.
- All operation parameters and alarm records of the unit can be recorded and stored.
- The unit can be remotely controlled via the internet to start, stop and transfer the data.



Controller mainboard module



7-inch touch screen

Display information

The control center continuously monitors the operation system and displays the unit operation status and fault information.



Status information includes:

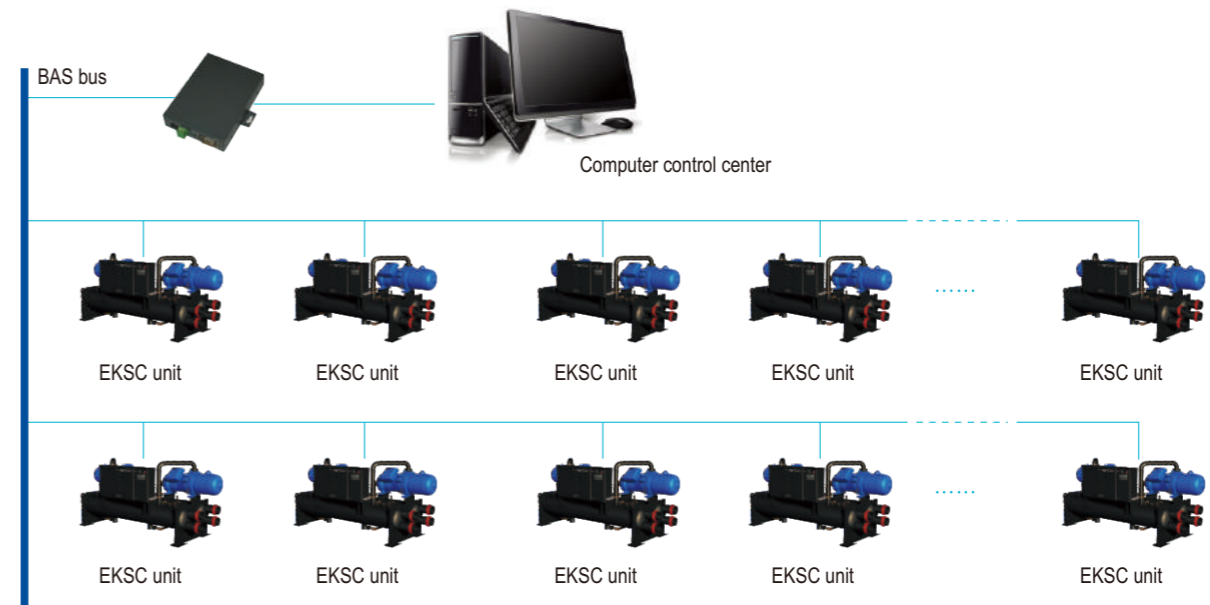
- Compressor start/stop
- Valve opening
- Temperature point (multiple)
- Pressure point (multiple)
- Unit load
- Unit operation status
- Pump status

Warning information includes:

- Anti-freezing alarm
- Various pressure and temperature sensor faults
- Valve fault
- Various protection alarms (compressor overloading, pump overloading, etc.)

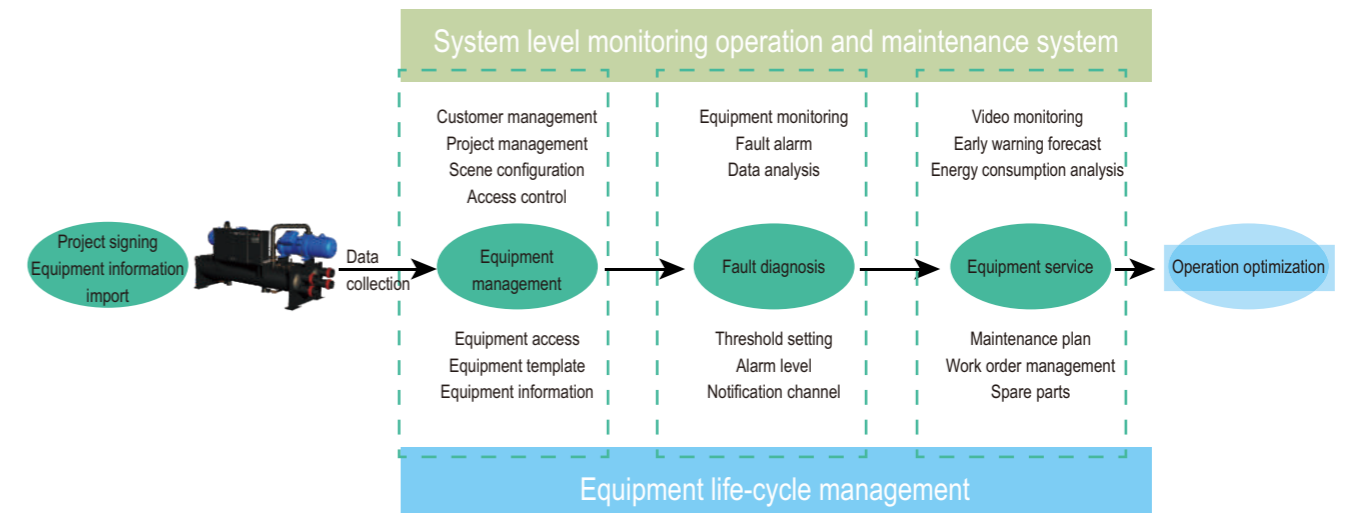
Centralized control

EK air-conditioning centralized control system adopts industry-leading control scheme. The product configuration is suitable for refrigeration pump, cooling pump and cooling tower control system solutions. Based on the main network of Microsoft's WEB browser, it can be controlled and monitored by many people at the same time.



Cloud platform monitoring

EKSC falling film water cooled screw chiller can be connected to the EK cloud monitoring platform and realize after-sales service business connection among customers, service agencies and EK. It can bring more timely and efficient equipment maintenance services to customers and provide 24-hour service guarantee.



>> Unit parameter sheet



Water cooled screw chiller ST standard type (EKSC062-EKSC196)

Model	EKSC	EKSC062	EKSC072	EKSC084	EKSC095	EKSC116	EKSC133	EKSC152	EKSC173	EKSC187	EKSC196	
Cooling capacity	U.S.RT	62	72	84	95	116	133	152	173	187	196	
	kW	216.8	253.0	294.8	334.7	408.0	466.0	536.3	609.7	658.1	691.0	
	$\times 10^4$ kcal/h	18.6	21.8	25.4	28.8	35.1	40.1	46.1	52.4	56.6	59.4	
Cooling power input	kW	42.8	50.0	56.9	64.8	78.9	89.3	102.4	115.6	128.0	133.1	
COP		5.07	5.06	5.18	5.17	5.17	5.22	5.24	5.27	5.14	5.19	
Chilled water flow rate		37.3	43.5	50.7	57.6	70.2	80.2	92.2	104.9	113.2	118.9	
Chilled water pressure drop		43	45	45	46	49	50	51	53	54	54	
Water source flow rate		46.6	54.4	63.4	72.0	87.7	100.2	115.3	131.1	141.5	148.6	
Water source pressure drop		43	45	46	48	50	51	52	54	55	55	
Compressor	Type	Semi-closed double screw compressor										
	Qty.	1	1	1	1	1	1	1	1	1	1	1
Start up type		Y- Δ										
Capacity modulation	%	25%-100% stepless										
Power supply		380V-415V/3N~/50Hz										
Condenser	Type	Water-cooled shell-tube type										
	Qty.	1	1	1	1	1	1	1	1	1	1	1
Evaporator	Type	Falling film										
	Qty.	1	1	1	1	1	1	1	1	1	1	1
Refrigerant type		R134a										
Lubricant	Code	Ek07										
	Filling L	16	15	18	23	23	23	28	28	40	40	40
Temperature control		Chilled water temperature PID control										
Outer diameter of chilled water inlet/outlet pipe	ϕ (m m)	139.7	139.7	139.7	139.7	168.3	168.3	168.3	168.3	168.3	168.3	168.3
Outer diameter of cooling water inlet/outlet pipe	ϕ (m m)	139.7	139.7	139.7	139.7	168.3	168.3	168.3	168.3	168.3	168.3	168.3
Heat-insulation material		Flexible elastomeric foam insulation										
Net weight		2350	2720	2760	2890	3350	3440	3580	3690	3990	4040	4040
Gross weight		2460	2850	2890	3020	3530	3630	3790	3920	4260	4320	4320
Rated current (cooling)	A	83	96	110	127	147	166	183	214	239	244	244
Start up current	A	230	233	270	292	407	447	522	663	753	753	753
Max. startup current (cooling)	A	110	130	147	172	192	218	259	294	350	365	365
Main power wiring diameter	mm ²	3x50	3x50	3x70	3x70	3x95	3x120	3x150	3x185	3x185	3x185	3x185

Notes: ■ Test conditions for cooling capacity: The outlet water temperature at the evaporator is 7°C, and the water flow rate is 0.172m³ / (h*kW); the inlet water temperature at the condenser is 30°C, and the water flow rate is 0.215m³ / (h*kW).
 ■ The water pressure drop of the evaporator and condenser does not include the resistance of any external water pipes and components.
 ■ The power distribution and wiring in the unit installation site should be based on the unit sample or installation instructions.
 ■ Use conditions for recommended wire diameter: Our company only provides the following suggestions for reference (the cable cross-section area in the list below is flatly laid in a perforated tray, the ambient temperature is 40°C, and it is the minimum cross-section area of the copper conductor).
 ■ Please refer to the parameters of the above list according to the functions of the selected model. The parameters will be changed due to the improvement of the factory products without prior notice.

Water cooled screw chiller ST standard type (EKSC207-EKSC347)

Model	EKSC	EKSC207	EKSC224	EKSC252	EKSC265	EKSC282	EKSC293	EKSC232	EKSC265	EKSC305	EKSC347	
Cooling capacity	U.S.RT	207	224	252	265	282	293	232	265	305	347	
	kW	729.4	787.8	886.7	931.1	992.0	1031.7	816.1	932.0	1072.8	1219.3	
	$\times 10^4$ kcal/h	62.7	67.8	76.3	80.1	85.3	88.7	70.2	80.2	92.3	104.9	
Cooling power input	kW	141.2	149.0	169.5	174.9	188.6	193.3	157.6	178.6	204.7	231.2	
COP		5.17	5.29	5.23	5.32	5.26	5.34	5.18	5.22	5.24	5.27	
Chilled water flow rate		125.5	135.5	152.5	160.1	170.6	177.5	140.4	160.3	184.5	209.7	
Chilled water pressure drop		54	54	56	56	56	56	74	75	76	78	
Water source flow rate		156.8	169.4	190.6	200.2	213.3	221.8	175.5	200.4	230.7	262.1	
Water source pressure drop		57	57	58	58	58	58	74	74	76	77	
Compressor	Type	Semi-closed double screw compressor										
	Qty.	1	1	1	1	1	1	2	2	2	2	
Start up type		Y- Δ										
Capacity modulation	%	25%-100% stepless					12.5%-100% stepless					
Power supply		380V-415V/3N~/50Hz										
Condenser	Type	Water-cooled shell-tube type										
	Qty.	1	1	1	1	1	1	1	1	1	1	1
Evaporator	Type	Falling film										
	Qty.	1	1	1	1	1	1	1	1	1	1	1
Refrigerant type		R134a										
Lubricant	Code	Ek07										
	Filling L	40	40	53	53	53	53	23+23	23+23	28+28	28+28	28+28
Temperature control		Chilled water temperature PID control										
Outer diameter of chilled water inlet/outlet pipe	ϕ (m m)	168.3	168.3	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1
Outer diameter of cooling water inlet/outlet pipe	ϕ (m m)	168.3	168.3	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1	219.1
Heat-insulation material		Flexible elastomeric foam insulation										
Net weight		4090	4180	4880	4990	5200	5290	5860	6000	6260	6530	6530
Gross weight		4370	4490	5250	5380	5690	5800	6190	6360	6670	7000	7000
Rated current (cooling)	A	265	278	310	320	337	350	294	332	366	428	428
Start up current	A	753	753	888	888	888	888	813	893	1043	1327	1327
Max. startup current (cooling)	A	380	402	432	445	458	474	385	436	518	588	588
Main power wiring diameter	mm ²	3x240	3x240	6x120	6x120	6x120	6x120	6x95	6x120	6x185	6x185	6x185

Notes: ■ Test conditions for cooling capacity: The outlet water temperature at the evaporator is 7°C, and the water flow rate is 0.172m³ / (h*kW); the inlet water temperature at the condenser is 30°C, and the water flow rate is 0.215m³ / (h*kW).
 ■ The water pressure drop of the evaporator and condenser does not include the resistance of any external water pipes and components.
 ■ The power distribution and wiring in the unit installation site should be based on the unit sample or installation instructions.
 ■ Use conditions for recommended wire diameter: Our company only provides the following suggestions for reference (the cable cross-section area in the list below is flatly laid in a perforated tray, the ambient temperature is 40°C, and it is the minimum cross-section area of the copper conductor).
 ■ Please refer to the parameters of the above list according to the functions of the selected model. The parameters will be changed due to the improvement of the factory products without prior notice.

>>
Unit parameter sheet



WATER COOLED SCREW CHILLER ST STANDARD TYPE (EKSC347~EKSC587)

Model	EKSC	EKSC374	EKSC393	EKSC415	EKSC448	EKSC504	EKSC529	EKSC564	EKSC587
Cooling capacity	U.S.RT	374	393	415	448	504	529	564	587
	kW	1316.3	1382.1	1458.9	1575.6	1773.5	1862.1	1984.0	2063.3
	x10 ⁴ kcal/h	113.2	118.9	125.5	135.5	152.5	160.1	170.6	177.4
Cooling power input	kW	255.9	266.3	282.5	298.0	339.0	349.7	377.1	386.7
COP		5.14	5.19	5.16	5.29	5.23	5.32	5.26	5.34
Chilled water flow rate		226.4	237.7	250.9	271.0	305.0	320.3	341.2	354.9
Chilled water pressure drop		79	79	80	80	82	82	83	83
Water source flow rate		283.0	297.2	313.7	338.8	381.3	400.4	426.6	443.6
Water source pressure drop		78	78	80	80	82	82	83	83
Compressor	Type	Semi-closed double screw compressor							
	Qty.	2	2	2	2	2	2	2	2
Start up type		Y-Δ							
Capacity modulation	%	12.5%-100% stepless							
Power supply		380V~415V/3N~/50Hz							
Condenser	Type	Water-cooled shell-tube type							
	Qty.	1	1	1	1	1	1	1	1
Evaporator	Type	Falling film							
	Qty.	1	1	1	1	1	1	1	1
Refrigerant type		R134a							
Lubricant	Code	Ek07							
	Filling L	40+40	40+40	40+40	40+40	53+53	53+53	53+53	53+53
Temperature control		Chilled water temperature PID control							
Outer diameter of chilled water inlet/outlet pipe	φ (m m)	219.1	219.1	219.1	219.1	273	273	273	273
Outer diameter of cooling water inlet/outlet pipe	φ (m m)	219.1	219.1	219.1	219.1	273	273	273	273
Heat-insulation material		Flexible elastomeric foam insulation							
Net weight		6770	6950	7050	7230	8620	8830	9040	9260
Gross weight		7260	7460	7620	7820	9330	9600	9850	10540
Rated current (cooling)	A	478	488	530	556	620	640	674	700
Start up current	A	1507	1507	1507	1507	1777	1777	1777	1777
Max. startup current (cooling)	A	700	720	760	780	880	900	930	950
Main power wiring diameter	mm ²	9x150	9x185	9x185	9x185	9x240	9x240	9x240	9x240

Notes: ■ Test conditions for cooling capacity: The outlet water temperature at the evaporator is 7°C, and the water flow rate is 0.172m³ / (h·kW); the inlet water temperature at the condenser is 30°C, and the water flow rate is 0.215m³ / (h·kW).
 ■ The water pressure drop of the evaporator and condenser does not include the resistance of any external water pipes and components.
 ■ The power distribution and wiring in the unit installation site should be based on the unit sample or installation instructions.
 ■ Use conditions for recommended wire diameter: Our company only provides the following suggestions for reference (the cable cross-section area in the list below is flatly laid in a perforated tray, the ambient temperature is 40°C, and it is the minimum cross-section area of the copper conductor).
 ■ Please refer to the parameters of the above list according to the functions of the selected model. The parameters will be changed due to the improvement of the factory products without prior notice.

Unit cooling capacity correction coefficient

Cooling capacity	Condensing water outlet temperature							
	25	28	30	32	35	37	40	
Chilled water outlet temperature	1	0.8620	0.8371	0.8199	0.8022	0.7748	0.7558	0.7263
	2	0.9013	0.8753	0.8575	0.8392	0.8107	0.7909	0.7603
	3	0.9468	0.9196	0.9011	0.8818	0.8444	0.8316	0.7997
	4	0.9853	0.9573	0.9379	0.9180	0.8873	0.8661	0.8333
	5	1.0253	0.9961	0.9761	0.9554	0.9237	0.9018	0.8679
	6	1.0664	1.0361	1.0154	0.9941	0.9612	0.9386	0.9036
	7	1.1090	1.0776	1.0561	1.0341	1.0000	0.9767	0.9405
	8	1.1527	1.1203	1.0980	1.0753	1.0401	1.0159	0.9786
	9	1.1981	1.1644	1.1414	1.1178	1.0815	1.0565	1.0180
	10	1.2449	1.2100	1.1861	1.1617	1.1241	1.0984	1.0586
	11	1.2931	1.2570	1.2323	1.2071	1.1682	1.1417	1.1007
	12	1.3429	1.3055	1.2800	1.2539	1.2137	1.1862	1.1440
	13	1.3943	1.3556	1.3290	1.3021	1.2607	1.2323	1.1886
	14	1.4471	1.4071	1.3797	1.3519	1.3091	1.2797	1.2347
	15	1.5017	1.4603	1.4320	1.4031	1.3589	1.3288	1.2823

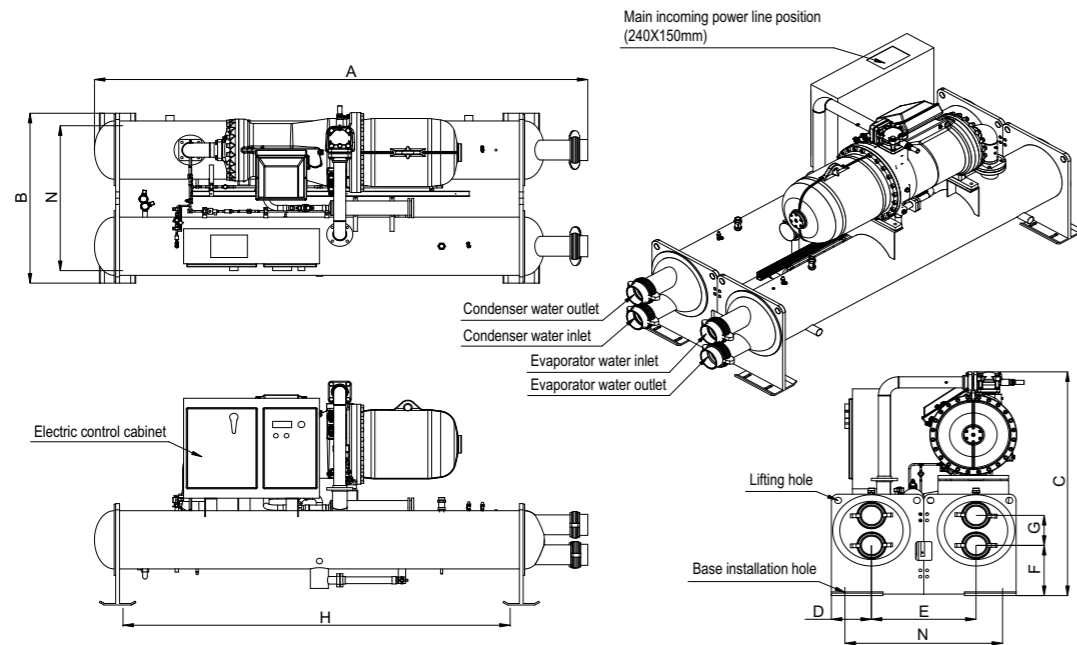
Unit cooling power correction coefficient

Power	Condensing water outlet temperature							
	25	28	30	32	35	37	40	
Chilled water outlet temperature	1	0.8119	0.8523	0.8827	0.9157	0.9697	1.0094	1.0728
	2	0.8173	0.8584	0.8887	0.9218	0.9764	1.0155	1.0802
	3	0.8240	0.8658	0.8962	0.9299	0.9804	1.0243	1.0890
	4	0.8281	0.8692	0.9002	0.9332	0.9885	1.0283	1.0937
	5	0.8314	0.8726	0.9036	0.9373	0.9926	1.0364	1.0978
	6	0.8348	0.8766	0.9069	0.9407	0.9966	1.0405	1.1025
	7	0.8382	0.8800	0.9110	0.9447	1.0000	1.0411	1.1065
	8	0.8415	0.8827	0.9144	0.9481	1.0040	1.0445	1.1099
	9	0.8442	0.8860	0.9171	0.9514	1.0074	1.0479	1.1140
	10	0.8476	0.8894	0.9204	0.9548	1.0108	1.0512	1.1173
	11	0.8503	0.8921	0.9238	0.9575	1.0135	1.0546	1.1214
	12	0.8530	0.8955	0.9265	0.9609	1.0169	1.0580	1.1247
	13	0.8564	0.8982	0.9292	0.9636	1.0202	1.0614	1.1281
	14	0.8591	0.9009	0.9326	0.9663	1.0229	1.0641	1.1308
	15	0.8618	0.9036	0.9353	0.9690	1.0256	1.0668	1.1342

>> **Unit parameter sheet**



External dimension drawing of the unit (EKSC062-EKSC293)



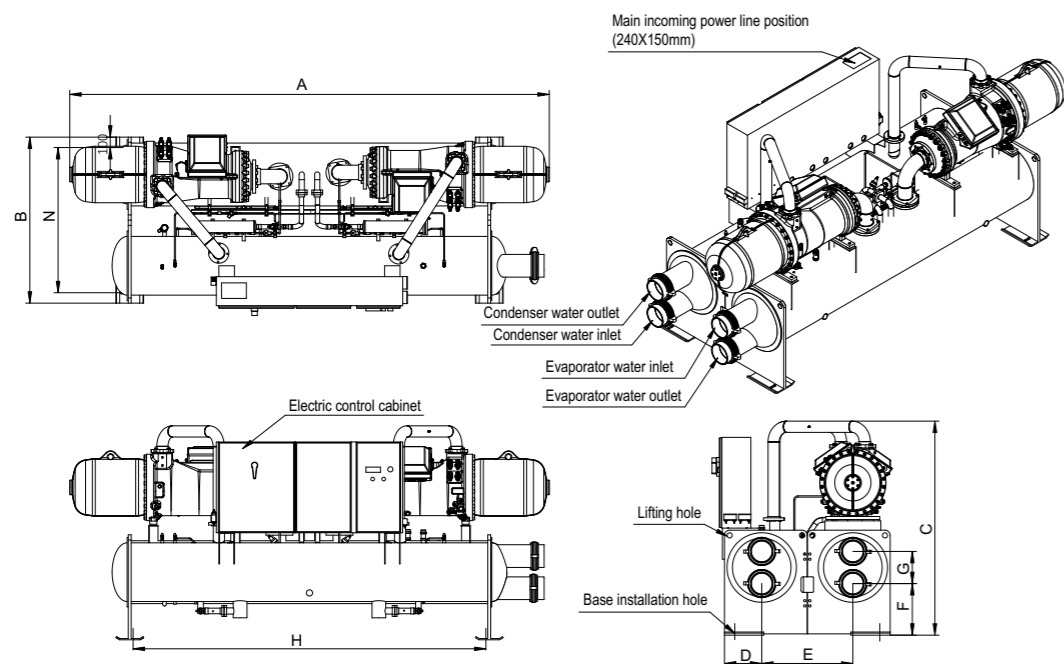
Unit: mm

External dimension drawing of the unit

Model	Compressor Quantity	A	B	C	D	E	F	G	H	N
EKSC062	1	3300	1260	1670	270	720	422	200	2550	1060
EKSC072	1	3300	1310	1770	270	720	422	200	2550	1060
EKSC084	1	3300	1310	1770	270	720	422	200	2550	1060
EKSC095	1	3580	1310	1820	270	720	422	200	2850	1060
EKSC116	1	3640	1360	1920	295	770	402	240	2850	1160
EKSC133	1	3640	1360	1970	295	770	402	240	2850	1160
EKSC152	1	3640	1360	1970	295	770	402	240	2850	1160
EKSC173	1	3640	1360	1970	295	770	402	240	2850	1160
EKSC187	1	3700	1460	2050	320	820	382	280	2850	1260
EKSC196	1	3700	1460	2050	320	820	382	280	2850	1260
EKSC207	1	3700	1460	2050	320	820	382	280	2850	1260
EKSC224	1	3700	1460	2050	320	820	382	280	2850	1260
EKSC252	1	3700	1600	2390	360	880	497	310	2850	1400
EKSC265	1	3700	1600	2390	360	880	497	310	2850	1400
EKSC282	1	3700	1880	2490	385	930	477	350	2850	1500
EKSC293	1	3700	1880	2490	385	930	477	350	2850	1500
EKSC232	2	4480	1830	2080	360	880	497	310	3350	1400
EKSC305	2	4840	1830	2120	360	880	497	310	3350	1400
EKSC347	2	4850	1900	2120	385	930	477	350	3350	1500
EKSC374	2	5270	1900	2250	385	930	477	350	3350	1500
EKSC393	2	5270	1900	2250	385	930	477	350	3350	1500
EKSC415	2	5270	2060	2290	410	980	462	380	3350	1600
EKSC448	2	5270	2060	2290	410	980	462	380	3350	1600
EKSC504	2	4220	1800	2490	420	960	492	400	3350	1600
EKSC529	2	4220	1800	2490	420	960	492	400	3350	1600
EKSC564	2	4600	2000	2690	485	1030	532	460	3740	1800
EKSC587	2	4600	2000	2690	485	1030	532	460	3740	1800

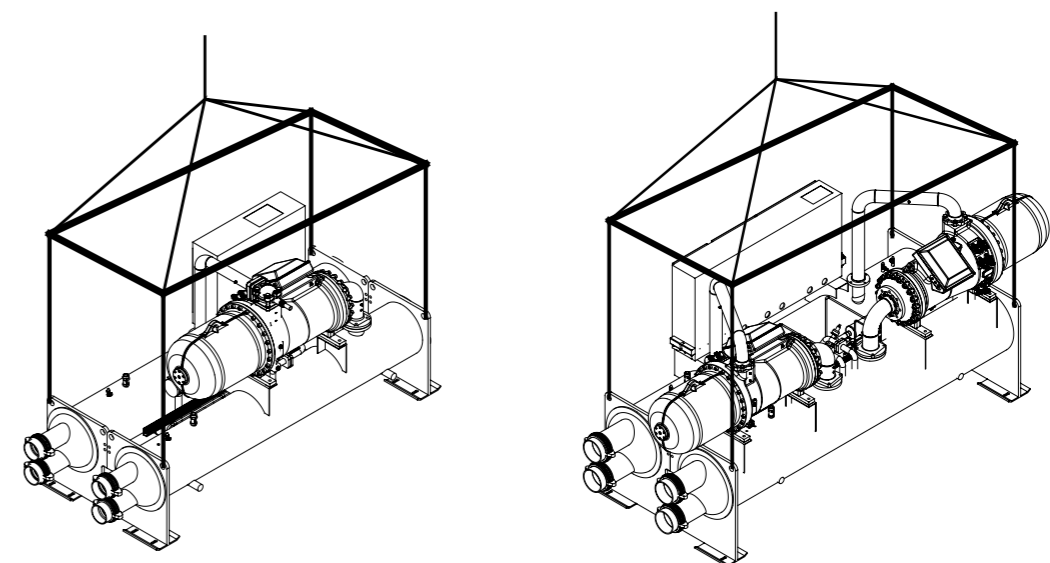
Unit: mm

External dimension drawing of the unit (EKSC232-EKSC587)



Unit: mm

Unit lifting diagram



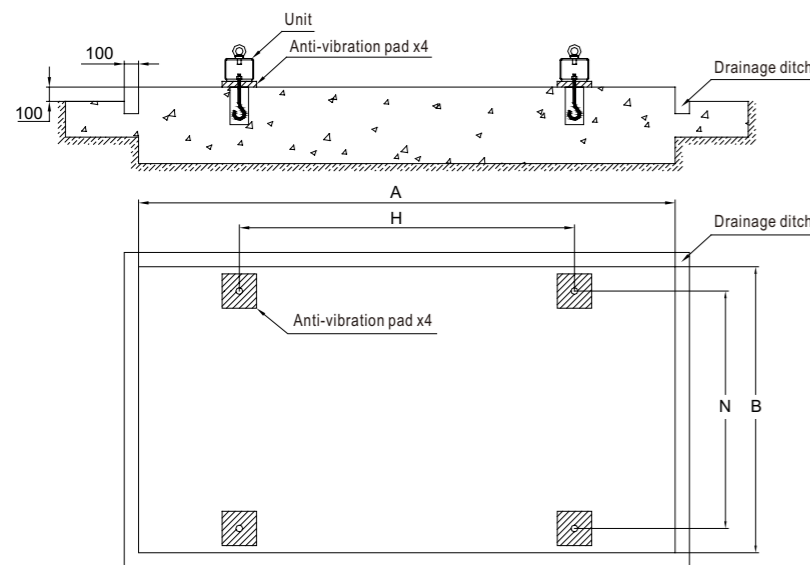
>> Unit parameter sheet



Installation environment

- The unit should be kept away from fire source and inflammable. If it is installed with a heating element such as a boiler, attention should be paid to the impact of heat radiation.
- It is best to select a venue with a room temperature of below 45°C and good ventilation. The relative humidity of the environment should be below 90%. It may not be installed or stored outdoors or in the open air.
- A venue with low dust should be selected (dust is the cause of electrical fault).
- The site should have good lighting for easy maintenance and inspection.
- In order to meet the requirements of maintenance, overhaul and cleaning of heat exchange pipes of evaporator condenser, there must be a sufficient height around the unit.
- To facilitate lifting and overhaul of the machine, a traveling crane or derrick should be installed to ensure that the machine room has a sufficient height.
- There should be a good drainage system around the unit and in the machine room.
- Avoid direct sunlight.

Installation basic diagram



Notes: The dimension in the above diagram can refer to the external dimension drawing of the unit. It is recommended to reserve 4 anchor bolts of M20x250.

Notes:

- As the vibration of the unit is very small, the foundation can be not required. It can be directly installed on the concrete terrace.
- If the customer needs to build the foundation, installation can be conducted it by referring to the above diagram.
- If the machine room is built on the floor, the floor should have sufficient strength to bear the operation weight of the chilling unit.
- When a concrete foundation is built, a drainage ditch should be built around the foundation so as to facilitate drainage. The edge of the foundation should be smooth. The standard concrete mixing ratio is: cement : sand : stone = 1:2:4.

Schematic diagram for unit maintenance space

