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INTERNATIONAL SUPPLIER OF INTELLIGENTLY INDUSTRIAL INTEGRATED HEATING & COOLING TEMPERATURE

专业制冷/加热设备制造商
高精度智能温控解决方案

Contact us:

Nanjing Startemp Machinery Co., Ltd.
Mob / WeChat / WhatsApp: +86-15850727331
Website: www.njstartemp.com
<https://njstartemp.en.made-in-china.com>
Email: market@njstartemp.com
Skype: joan.wang618



Whatsapp



Wechat



COMPANY PROFILE 企业简介

斯达特机械深耕温控设备领域多年，是一家集模温机、冷水机研发、生产、销售于一体的专业厂家。

公司始终专注核心业务，持续投入研发与技术革新，产品畅销国内并远销海外。模温机涵盖水温机、油温机，精准控温，高效节能，广泛应用于塑胶、化工等多行业；冷水机的风冷、水冷系列，制冷性能优越，适配不同规模企业的冷却需求。

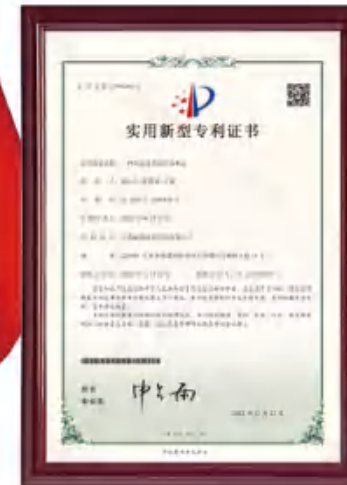
公司从定制化方案设计到及时响应维修，为客户提供全流程服务保障。凭借卓越品质与贴心服务，公司与众多知名企业达成长期合作。未来，也将秉持“品质至上、创新驱动”理念，持续为全球客户提供优质温控设备。

Startemp Machinery has been deeply engaged in the field of temperature control equipment for many years and is a professional manufacturer integrating the research and development, production and sales of mold temperature control machines and water chillers.

The company has always been focused on its core business, continuously investing in research and development and technological innovation. Its products are not only popular in the domestic market but also exported overseas. Mold temperature control machines include water temperature control machines and oil temperature control machines. They feature precise temperature control, high efficiency and energy conservation, and are widely used in multiple industries such as plastics and chemicals. The air-cooled and water-cooled series of water chillers have excellent cooling performance and are suitable for the cooling needs of enterprises of different scales.

The company provides customers with full-process service guarantees, from customized solution design to prompt response to maintenance. With outstanding quality and considerate service, the company has established long-term cooperation with many well-known enterprises. In the future, we will also adhere to the concept of "quality first and innovation-driven", and continue to provide high-quality temperature control equipment for global customers.

ENTERPRISE QUALIFICATION 企业资质





铸就精品 匠心制造

南京斯达特机械有限公司
专业制冷、加热设备制造商

 **STARTEMP**



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标准水温机

Standard water heating temperature controller

水温机以水作为导热媒介，PID 自动调节温度。由于水的比热比油的大，所以在调控温度相同的情况下，水温机的媒介导热效果要好。并且使用方便，无污染，只需要连接自来水即可。

The water temperature machine uses water as the heat transfer medium and automatically regulates the temperature with PID. Because the specific heat of water is greater than that of oil, under the condition of the same temperature control, the medium heat conduction effect of the water temperature machine is better. And it is convenient to use, pollution-free, and only needs to be connected to tap water.

产品特点 Features

- ▲ 出水、回水温度显示
- ▲ 加热功率档位调节
- ▲ 开机自动排气
- ▲ 电脑 PC 板自优化微处理器，PID 自动调节，操作简单
- ▲ 热水 BY-PASS 泄压回路
- ▲ 采用 304 不锈钢一体成型管路，减少管阻及锈垢
- ▲ 电控箱与机身隔离，隔热效果好，电器使用寿命长
- ▲ 进口电器配件，WEST、ABB、CARLO、LS、SCHNEIDER、SIEMENS、OMRON 等
- ▲ 安全保护及故障显示系统完善，维修、保养无需专业人员
- ▲ 可选功能：
- ▲ 多点温度控制机组可专业定制
- ▲ RS485 通讯，可实现自动化管理
- ▲ PLC 控制，可靠性高，抗干扰能力强
- ▲ 定时开关机，冷却关机功能
- ▲ 吹气回水功能
- ▲ 电控柜、管路防爆设计

- ▲ Return water temperature and set temperature display.
- ▲ Heating power gear adjustment
- ▲ Automatic exhaust upon startup
- ▲ The PC board of the computer is equipped with a self-optimizing microprocessor, PID automatic regulation, and is easy to operate
- ▲ Hot water BY-PASS release pressure loop.
- ▲ The 304 stainless steel one-piece formed pipeline is adopted to reduce pipe resistance and rust scale
- ▲ The electrical control box is isolated from the machine body, providing good heat insulation and a long service life of the electrical appliances
- ▲ Imported electrical accessories, WEST, ABB, CARLO, LS, SCHNEIDER SIEMENS, OMRON, etc
- ▲ Optional functions
- ▲ Multi-point temperature control units can be professionally customized
- ▲ RS485 communication enables automated management
- ▲ PLC control, high reliability and strong anti-interference ability
- ▲ Timed on/off and cooling shutdown functions
- ▲ The function of blowing return water
- ▲ Explosion-proof design for the electrical control cabinet and pipelines

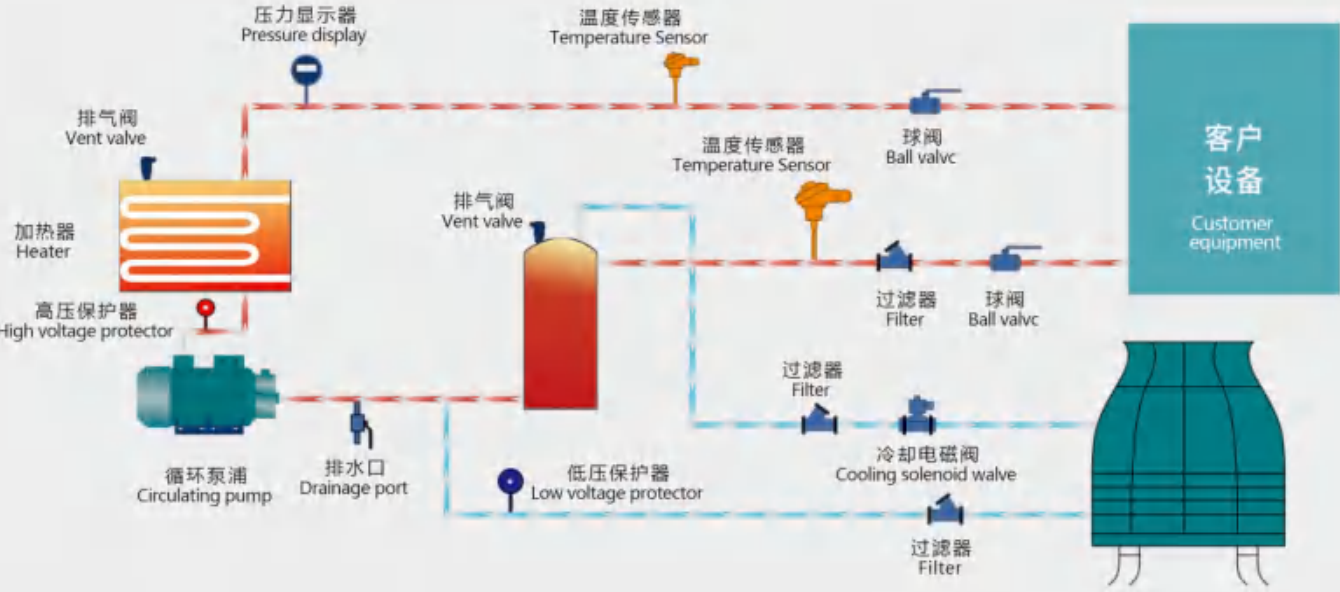
应用行业 Application Industry

纤维行业、化工行业、新能源行业、汽车内饰行业、电镀行业、塑胶行业、新材料行业、食品工业、激光行业、机械设备、真空镀膜行业、模具、辊筒。

The water temperature machine uses water as the heat transfer medium and automatically regulates the temperature with PID. Because the specific heat of water is greater than that of oil, under the condition of the same temperature control, the medium heat conduction effect of the water temperature machine is better. And it is convenient to use, pollution-free, and only needs to be connected to tap water.



产品原理 Schematic Diagram



水循环温度机产品参数

120°C Water heating temperature controller SWM series Specifications

Model 型号	单位 Symbol	SWM-05	SWM-10	SWM-20	SWM-30	SWM-40	SWM-50	SWM-75
Temp Range 温度范围	°C	Normal temperature-120°C						
Temp.Control Accuracy 控温精度		PID±0.5°C						
Power Supply 电压		AC34380V 50HZ PE or customized						
Heat Transfer Medium 导热媒介		Water						
Cooling Method 冷却方式		Direct Cooling						
Heating Capacity 加热功率	KW	3/6/9/12/18/24/36/48/60/72/84/96/120/150/customized						
Pump Power 水泵功率	KW	0.37	0.75	1.5	2.2	3	4	5.5
Max Pump Flow 最大水泵流量	L/min	42	56/165	235	315	330	367	400
Max Column Head 最大扬程	Kg/CM²	28	38/18	22	28	35	38	42
Safety protection system 安全保护系统		Phase detection/water shortage/pump overload/jammed alarm/pipe blockage/high voltage power failure						
Cooling Water Pipe (Optional) 冷却水管径	INCH	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	1"
Circulation water Pipe (Optional) 循环水管径	INCH	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
Size(L*W*H) 尺寸	MM	620*280*570	770*325*660	870*420*900	1170*450*1050	1520*500*1200	1800*550*1350	1800*650*1350
Weight 重量	KG	62	75	85	150	190	220	270

高温水温机

High temperature water heating temperature controller

高温水温机以水作为导热媒介，PID 自动调节温度。由于水的比热比油的大，所以在调控温度相同的情况下，水温机的媒介导热效果要好。并且使用方便，无污染，只需要连接自来水即可。

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产品特点 Features

- ▲ 出水、回水温度显示
- ▲ 加热功率档位调节
- ▲ 开机自动排气
- ▲ 电脑 PC 板自优化微处理器，PID 自动调节，操作简单
- ▲ 热水 BY-PASS 泄压回路
- ▲ 采用 304 不锈钢一体成型管路，减少管阻及锈垢
- ▲ 电控箱与机身隔离，隔热效果好，电器使用寿命长
- ▲ 进口电器配件，WEST、ABB、CARLO、LS、SCHNEIDER、SIEMENS、OMRON 等
- ▲ 安全保护及故障显示系统完善，维修、保养无需专业人员
- ▲ 可选功能：
- ▲ 多点温度控制机组可专业定制
- ▲ RS485 通讯，可实现自动化管理
- ▲ PLC 控制，可靠性高，抗干扰能力强
- ▲ 定时开关机，冷却关机功能
- ▲ 吹气回水功能
- ▲ 电控柜、管路防爆设计
- ▲ Return water temperature and set temperature display.
- ▲ Heating power gear adjustment
- ▲ Automatic exhaust upon startup
- ▲ The PC board of the computer is equipped with a self-optimizing microprocessor, PID automatic regulation, and is easy to operate
- ▲ Hot water BY-PASS release pressure loop.
- ▲ The 304 stainless steel one-piece formed pipeline is adopted to reduce pipe resistance and rust scale
- ▲ The electrical control box is isolated from the machine body, providing good heat insulation and a long service life of the electrical appliances
- ▲ Imported electrical accessories, WEST, ABB, CARLO, LS, SCHNEIDER SIEMENS, OMRON, etc
- ▲ Optional functions
- ▲ Multi-point temperature control units can be professionally customized
- ▲ RS485 communication enables automated management
- ▲ PLC control, high reliability and strong anti-interference ability
- ▲ Timed on/off and cooling shutdown functions
- ▲ The function of blowing return water
- ▲ Explosion-proof design for the electrical control cabinet and pipelines

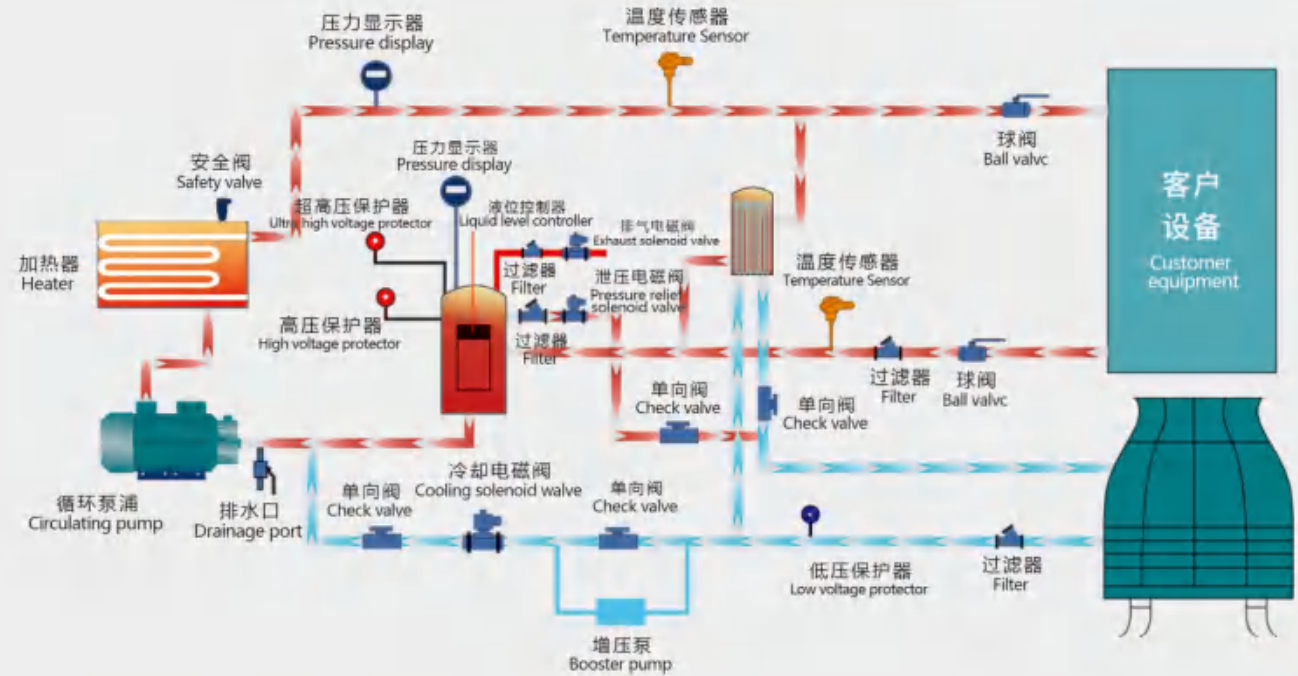
应用行业 Application Industry

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The water temperature machine uses water as the heat transfer medium and automatically regulates the temperature with PID. Because the specific heat of water is greater than that of oil, under the condition of the same temperature control, the medium heat conduction effect of the water temperature machine is better. And it is convenient to use, pollution-free, and only needs to be connected to tap water.



产品原理 Schematic Diagram



高温水温机产品参数

180°C Thermal Water heating temperature controller SEWT series Specifications

Model 型号	单位 Symbol	SEWT-10	SEWT-20	SEWT-30	SEWT-40	SEWT-50	SEWT-75
Temp Range 温度范围	°C	Normal temperature-180°C					
Temp.Control Accuracy 控温精度		PID±0.5°C					
Power Supply 电压		AC3~380V 50HZ PE or customized					
Heat Transfer Medium 导热媒介		Water					
Cooling Method 冷却方式		Indirect Cooling					
Heating Capacity 加热功率	KW	6/9/12/18/24/36/48/60/72/84/96/120/150/customized					
Pump Power 水泵功率	KW	0.75	1.5	2.2	3	4	5.5
Max Pump Flow 最大水泵流量	L/min	165	235	315	330	367	400
Max Column Head 最大扬程	Kg/CM²	18	22	28	35	38	42
Safety protection system 安全保护系统		Phase detection/water shortage/pump overload/jammed alarm/pipe blockage/high voltage power failure					
Cooling Water Pipe (Optional) 冷却水管径	INCH	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
Circulation water Pipe (Optional) 循环水管径	INCH	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
Size(L*W*H) 尺寸	MM	850*325*750	850*420*900	1170*450*1050	1520*500*1200	1800*550*1350	1800*550*1500
Weight 重量	KG	85	150	190	220	270	350

油温机

Oil heating temperature controller

油温机是以导热油作为媒介的模温机，也可以称作油加热器、油温加热器、油循环控温机。油温机精确控制温度，操作简便，最大温度达到 400℃。广泛应用于热压模具、层压机、玻璃钢、汽车内饰件热压成型、碳纤维、复合材料、塑料及橡胶工业、覆膜机、压延机、轧光机、压光机、涂布机辊筒、捏合机、反应釜等。

An oil temperature control machine is a mold temperature control machine that uses heat transfer oil as the medium. It can also be called an oil heater, an oil temperature heater, or an oil circulation temperature control machine. The oil temperature machine precisely controls the temperature, is easy to operate, and can reach a maximum temperature of 400°C. It is widely applied in hot press molds, laminating machines, fiberglass reinforced plastic, hot press forming of automotive interior parts, carbon fiber, composite materials, plastic and rubber industries, laminating machines, calendering machines, coating machine rollers, kneading machines, reaction vessels, etc.

产品特点 Features

- ▲ 回油温度显示
- ▲ 加热功率档位调节
- ▲ 开机自动排气
- ▲ 电脑 PC 板自优化微处理器，PID 自动调节，操作简单
- ▲ 热油 BY-PASS 泄压回路
- ▲ 电控箱与机身隔离，隔热效果好，电器使用寿命长
- ▲ 进口电器配件，WEST、ABB、CARLO、LS、SCHNEIDER、SIEMENS、OMRON 等
- ▲ 安全保护及故障显示系统完善，维修、保养无需专业人员
- ▲ 可选功能：
 - ▲ 多点温度控制机组可专业定制
 - ▲ RS485 通讯，可实现自动化管理
 - ▲ PLC 控制，可靠性高，抗干扰能力强
 - ▲ 定时开关机，冷却关机功能
 - ▲ 吹气回油功能
 - ▲ 电控柜、管路防爆设计
- ▲ Return oil temperature display
- ▲ Heating power gear adjustment
- ▲ Automatic exhaust upon startup
- ▲ The PC board of the computer is equipped with a self-optimizing microprocessor, PID automatic regulation, and is easy to operate
- ▲ Hot oil BY-PASS pressure relief circuit
- ▲ The electrical control box is isolated from the machine body, providing good heat insulation and a long service life of the electrical appliances
- ▲ Imported electrical accessories, WEST, ABB, CARLO, LS, SCHNEIDER, SIEMENS, OMRON, etc
- ▲ The safety protection and fault display system is complete, and no professional personnel are required for maintenance and repair
- ▲ Optional functions
 - ▲ Multi-point temperature control units can be professionally customized
 - ▲ RS485 communication enables automated management
 - ▲ PLC control, high reliability and strong anti-interference ability
 - ▲ Timed on/off and cooling shutdown functions
 - ▲ Air-blowing oil return function
 - ▲ Explosion-proof design for the electrical control cabinet and pipelines

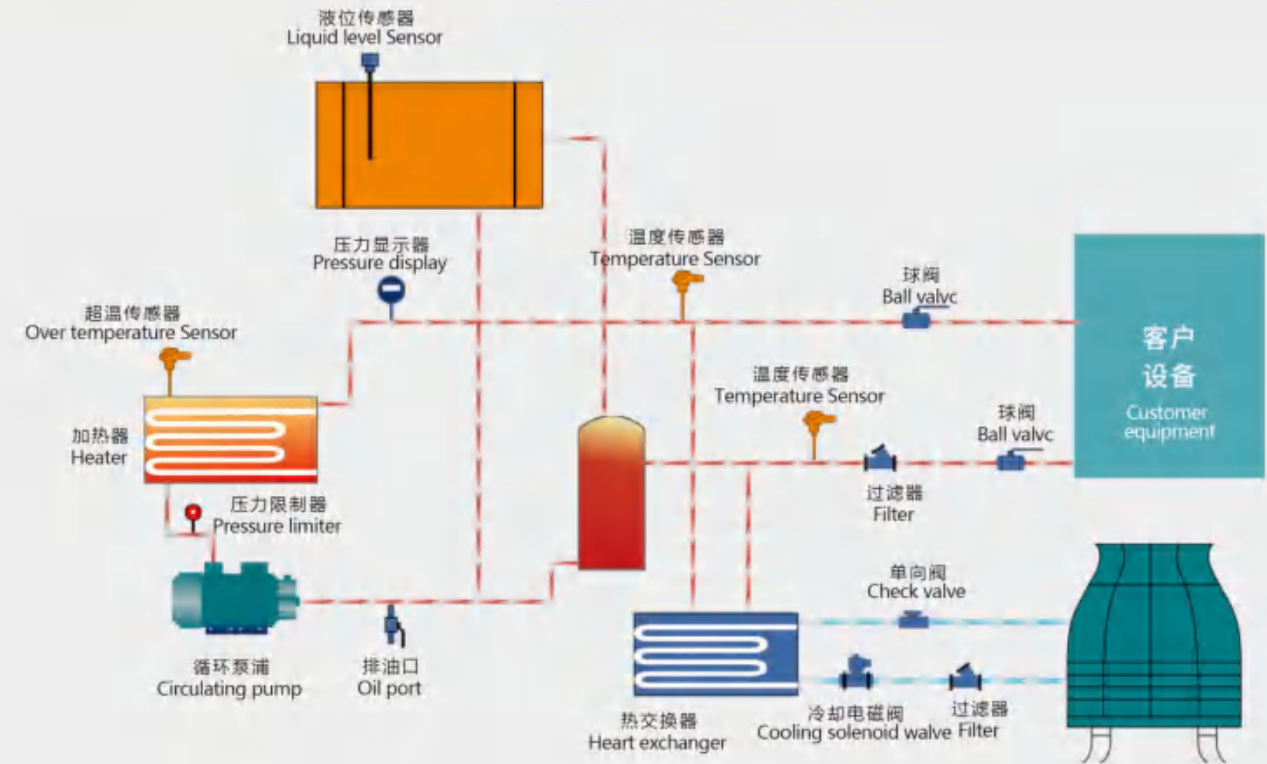
应用行业 Application Industry

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Fiber industry, chemical industry, new energy industry, automotive interior industry, electroplating industry, plastic industry, new materials industry, food industry, laser industry, mechanical equipment, vacuum coating industry, molds, rollers.



产品原理 Schematic Diagram



标准油温机产品参数

200°C oil heating temperature controller SOS series Specifications

型号	Model	单位Unit	SOS-05	SOS-10	SOS-20	SOS-30	SOS-40	SOS-50
控温范围	Temp Range	℃	常温 -200℃ Normal temperature -200℃					
温控精度	Temp. Control Accuracy		PID±0.5℃					
电源	Power Supply		AC380V 50HZ PE or customized					
传热媒介	Heat Transfer Medium		导热油 Heat Conducting Oil					
冷却方式	Cooling Method		间接冷却 Indirect Cooling					
加热功率	Heating Capacity	KW	6/9/12/18/24/30/36/48/60/72/84/96/120/150/customized					
泵浦功率	Pump Power	KW	0.37	0.75	1.5	2.2	3	4
泵浦最大流量	Max Pump Flow	L/min	4	165	235	315	330	367
泵浦最大压力	Max Pump Pressure	Kg/CM²	28	18	22	28	35	38
保护功能	Safety protection system		相序检测/缺水/泵过载/卡死报警/管道堵塞/电源短路/温度异常 Phase detection/water shortage/pump overload/jammed alarm/pipe blockage/power short circuit/temperature anomaly					
冷却水配管 (选配)	Cooling Water Pipe (Optional)	INCH	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"
循环油配管	Circulation oil Pipe	INCH	3/4"	1"	1"	1-1/4"	1-1/2"	2"
外形尺寸	Size(L*W*H)	MM	850*325*750	900*400*800	1170*450*1000	1500*500*1200	1770*550*1350	1770*550*1500
质量	Weight	KG	80	100	180	220	250	300

高温油温机产品参数

320°C Thermal oil heating temperature controller SOMT series Specifications

型 号	Model	单位Unit	SOMT-10	SOMT-20	SOMT-30	SOMT-40	SOMT-50	SOMT-75	SOMT-100
控温范围	Temp Range	℃	常温-320℃ Normal temperature-320℃						
温控精度	Temp.Control Accuracy		PID±0.5℃						
电 源	Power Supply		AC34380V 50HZ PE or customized						
传热媒介	Heat Transfer Medium		导热油 Heat Conducting Oil						
冷却方式	Cooling Method		间接冷却 Indirect Cooling						
加热功率	Heating Capacity	KW	6/9/12/18/24/30/36/48/60/72/84/96/120/150/customized						
泵浦功率	Pump Power	KW	0.75	1.5	2.2	3	4	5.5	7.5
泵浦额定流量	Pump Rated Flow	L/min	25	100	166	208	266	415	500
泵浦额定压力	Pump Rated Pressure	Kg/CM²	22	28	28	30	32	35	48
保护功能	Safety protection system		相序检测/缺水/泵过载/卡死报警/管道堵塞/电源短路/温度异常 Phase detection/water shortage/pump overload/jammed alarm/pipe blockage/power short circuit/temperature anomaly						
冷却水配管(选配)	Cooling Water Pipe (Optional)	INCH	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
循环油配管	Circulation oil Pipe	INCH	1"	1"	1-1/4"	1-1/2"	1-1/2"	2"	2"
外形尺寸	Size(L*W*H)	MM	1170*450*1050	1170*450*1050	1500*500*1200	1500*500*1200	1770*550*1350	1770*550*1550	1770*550*1500
质 量	Weight	KG	120	180	220	250	300	350	380

超高温油温机产品参数

400°C Ultra high temperature thermal oil heater SOMTH series Specifications

型 号	Model	单位Unit	SOMTH-07	SOMTH-10	SOMTH-20	SOMTH-30	SOMTH-40	SOMTH-50	SOMTH-75
控温范围	Temp Range	℃	常温-400℃ Normal temperature-400℃						
温控精度	Temp.Control Accuracy		PID±0.5℃						
电 源	Power Supply		AC34380V 50HZ PE or customized						
传热媒介	Heat Transfer Medium		导热油 Heat Conducting Oil						
冷却方式	Cooling Method		间接冷却 Indirect Cooling						
加热功率	Heating Capacity	KW	12/18/24/30/36/48/60/72/84/96/120/150/customized						
泵浦功率	Pump Power	KW	0.55	0.75	1.5	2.2	3	4	5.5
泵浦额定流量	Pump Rated Flow	L/min	25	67	100	105	150	416	416
泵浦额定压力	Pump Rated Pressure	Kg/CM²	30	15	18	30	35	25	35
保护功能	Safety protection system		相序检测/缺水/泵过载/卡死报警/管道堵塞/电源短路/温度异常 Phase detection/water shortage/pump overload/jammed alarm/pipe blockage/power short circuit/temperature anomaly						
氮气管	Nitrogen piping	INCH	1/4"						
冷却水配管(选配)	Cooling Water Pipe (Optional)	INCH	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"
循环油配管	Circulation oil Pipe	INCH	1/2"	3/4"	1"	1-1/4"	1-1/2"	1-1/2"	2"
外形尺寸	Size(L*W*H)	MM	1170*450*1050	1170*450*1050	1500*500*1200	1500*500*1200	1770*550*1350	1770*550*1550	1770*550*1500
质 量	Weight	KG	100	150	180	250	300	350	450

电加热导热油锅炉
Electric heating thermal oil heater



大功率导热油锅炉产品参数

Big power heat transfer oil boiler YWDR series Specifications

型 号	Model	单位Unit	YWDR0.12	YWDR0.18	YWDR0.24	YWDR0.36	YWDR0.48	YWDR0.60	YWDR0.80
控温范围	Temp Range	℃	常温-320℃ Normal temperature-280℃						
温控精度	Temp.Control Accuracy		PID±1℃						
电 源	Power Supply		AC34380V 50HZ PE or customized						
传热媒介	Heat Transfer Medium		导热油 Heat Conducting Oil						
冷却方式	Cooling Method		间接冷却 Indirect Cooling						
加热功率	Heating Capacity	KW	120	180	240	360	480	600	800
泵浦功率	Pump Power	KW	5.5	5.5	5	15	15	30	30
泵浦额定流量	Pump Rated Flow	L/min	30	30	45	50	50	100	100
泵浦额定压力	Pump Rated Pressure	Kg/CM²	4.5	4.5	3.8	5	5	5	5
保护功能	Safety protection system		相序检测/缺水/泵过载/卡死报警/管道堵塞/电源短路/温度异常 Phase detection/water shortage/pump overload/jammed alarm/pipe blockage/power short circuit/temperature anomaly						
循环油配管	Circulation oil Pipe	INCH	2"	2"	2-1/2"	3"	3"	4"	4"
外形尺寸	Size(L*W*H)	MM	2200*1250*1450	2250*1250*1650	2250*1250*1650	2200*1500*2250	2300*1700*2400	2600*1950*2850	2600*1950*2850
质 量	Weight	KG	400	550	700	900	1100	1300	1500

冷热一体机

Integrated chiller and heater in one machine

冷热一体机分为两个部分：加热部分和冷却部分。广泛应用于注塑，化工，橡胶挤出，反应釜，吹塑等行业。冷热一体机控温精度高，可实现相互切换加快生产进度，降低能耗，提高产品的成型效率，印制产品的缺陷，降低不良产品的产生。

The hot and cold integrated machine is divided into two parts: the heating part and the cooling part. It is widely applied in industries such as injection molding, chemical engineering, rubber extrusion, reaction vessels, and blow molding. The temperature control of the cold and hot integrated machine is precise, and it can be switched between each other to accelerate production progress, reduce energy consumption, improve the forming efficiency of products, reduce the defects of printed products, and lower the occurrence of defective products.

产品特点 Features

- 加热部分：**

 - ▲ 回油温度显示
 - ▲ 开机自动排气
 - ▲ 加热功率档位调节
 - ▲ 采用 304 不锈钢一体成型管路，减少管阻和积碳
 - ▲ 电脑 PC 板自优化微处理器，PID 自动调节，操作简单
 - ▲ 安全保护及故障显示系统完善，维修、保养无需专业人员
 - ▲ RS485 通讯，可实现自动化管理（可选）
 - ▲ PLC 控制，可靠性高，抗干扰能力强（可选）
- 制冷部分：**

 - ▲ 采用品牌涡旋式压缩机，谷轮，三洋，大金等
 - ▲ 内部铜管采用无氧焊接法
 - ▲ 高效率的蒸发器和冷凝器
 - ▲ 采用 304 SS 不锈钢水箱
 - ▲ 电脑 PC 板自优化微处理器，操作简单
 - ▲ 采用 OMRON、FUJI、TE、LG、ABB、SCHNEIDER、SIEMENS 等品牌配件
 - ▲ 安全保护及故障显示系统完善，维修、保养无需专业人员
- Heating section**

 - ▲ Return oil temperature display
 - ▲ Automatic exhaust upon startup
 - ▲ Heating power gear adjustment
 - ▲ The 304 stainless steel one-piece formed pipeline is adopted to reduce pipe resistance and carbon deposits
 - ▲ The PC board of the computer is equipped with a self-optimizing microprocessor, PID automatic regulation, and is easy to operate
 - ▲ The safety protection and fault display system is complete, and no professional personnel are required for maintenance and repair
 - ▲ RS485 communication enables automated management (optional)
 - ▲ PLC control, high reliability and strong anti-interference ability (optional)
- Refrigeration section**

 - ▲ It adopts brand scroll compressors such as Copeland, Sanyo and Daikin
 - ▲ The internal copper tubes are welded by oxygen-free welding method
 - ▲ High-efficiency evaporator and condenser
 - ▲ The 304 SS stainless steel water tank is adopted
 - ▲ The PC board of the computer is equipped with a self-optimizing microprocessor and is easy to operate
 - ▲ Accessories of brands such as OMRON, FUJI, TE, LG, ABB, SCHNEIDER and SIEMENS are adopted
 - ▲ The safety protection and fault display system is complete, and no professional personnel are required for maintenance and repair

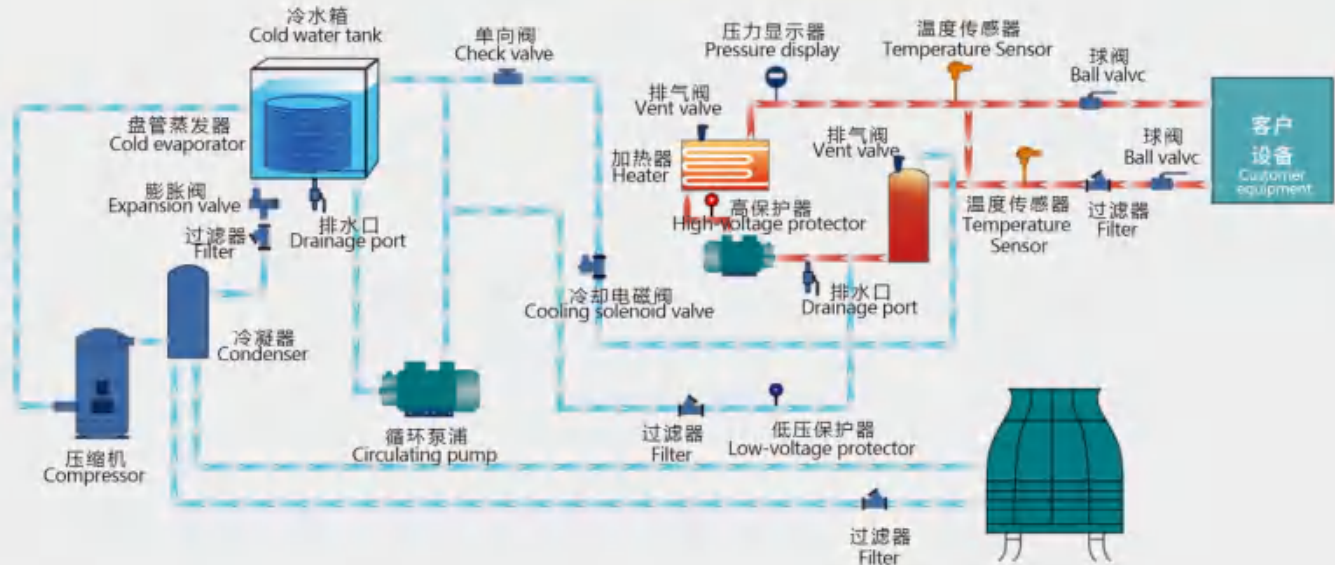
应用行业 Application Industry

纤维行业、化工行业、新能源行业、汽车内饰行业、电镀行业、塑胶行业、新材料行业、食品工业、激光行业、机械设备、真空镀膜行业、模具、辊筒。

Fiber industry, chemical industry, new energy industry, automotive interior industry, electroplating industry, plastic industry, new materials industry, food industry, laser industry, mechanical equipment, vacuum coating industry, molds, rollers.



产品原理 Schematic Diagram



冷热一体机产品参数

Integrated chiller and heater in one machine Specifications

参数Parameter	型号Model	SCH-03W(A)	SCH-05W(A)	SCH-10W(A)	SCH-15W(A)	SCH-20W(A)	SCH-30W(A)	SCH-40W(A)	SCH-50W(A)
温控范围 Range of temperature control		3°C~98°C							
制冷量 Refrigerating capacity	Kcal/h/kw	8251 9.59	13690 15.91	27370 28.01	43120 50.14	57748 67.14	85303 99.19	110984 129.06	132359 153.91
电源 Power supply		3N-380V/415V 50Hz/60Hz							
压缩机Compressor	类型Type	全封闭涡旋式/活塞式Totally closed vortex type or piston type							
冷却水 Cooling water	功率Power	KW	2.2	3.75	3.75×2	5.5×2	7.5×2	7.5×3	7.5×4
	水量Quantity of water	m³/h	2.06	3.42	6.85	10.78	14.44	21.32	27.74
	水阻力Water resistance	Kpa	28	34	34	34	38	36	35
冷冻水 Chilled water	进出水管管径 Inlet and outlet pipe diameters		G3/4	G1	G1-1/2	G2	G2	G2-1/2	G3
	水量Quantity of water	m³/h	1.65(1.44)	2.74(2.4)	5.74(4.82)	8.62(7.6)	11.55(10.16)	17.06(15)	22.19(19.53)
	冷冻水箱Chilled water tank Inlet and outlet pipe diameters	m³	0.050	0.058	0.015	0.285	0.300	0.380	0.560
冰水泵 Pump	功率 PoWer	kW	0.375	0.75	1.5	1.5	2.2	4	4
	压力 Pressure	kpa	200	200	205	205	220	240	240
热水泵 Pump	功率 Power	kW	0.75	0.75	1.5	1.5	1.5	2.2	3.75
	压力 Pressure	kpa	200	200	205	205	205	220	240
加热能量 Heating energy	kW	6	6	12	15	18	24	36	48
整机参考尺寸 Size(L*W*H)	mm	1200*580*1000	1200*580*1100	1350*910*1320	1900*750*1600	2060*914*1785	2450*940*1650	2650*1050*1750	2650*1400*1950
重量 Weight	Kg	151	120	312	440	440	440	750	1000

风冷涡旋冷水机

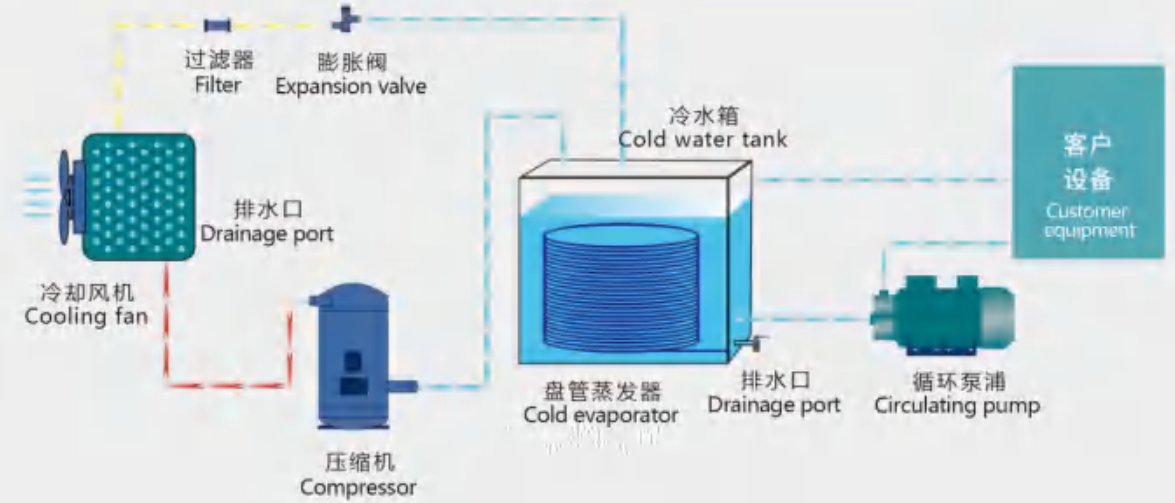
Air cooled scroll Chiller

产品特点 Features

- ▲ 采用欧美进口压缩机头；
 - ▲ 铜管采用无氧焊接法；
 - ▲ RS485 通讯功能，实现自动化管理（选购）；
 - ▲ 采用进口高级组件，使用寿命长；
 - ▲ 电器采用 SIEMENS.SCHNEIDER.LG.MOELLER.West；
 - ▲ 控制方式：采用进口微电脑或 PLC 控制（选购）；
 - ▲ 安全保护完善，故障显示，维修，保养无需专业人员；
 - ▲ 高效率之蒸发器及冷凝器，可节省能源 30% 以上。
- ▲ Adopt imported compressor heads from Europe and America;
 - ▲ The copper tubes are welded by oxygen-free welding method.
 - ▲ RS485 communication function for automated management (optional);
 - ▲ It adopts imported high-grade components and has a long service life.
 - ▲ Electrical appliances using SIEMENS. SCHNEIDER. LG. MOELLER. West;
 - ▲ Control mode: Imported microcomputer or PLC control is adopted (optional)
 - ▲ Complete safety protection, fault display, maintenance and repair do not require professional personnel
 - ▲ High-efficiency evaporators and condensers can save more than 30% of energy.



产品原理 Schematic Diagram



风冷涡旋冷水机 -SC 系列 (7°C) 产品参数

Air cooled scroll Chiller-SC Series (7°C) Specifications

Model		SC-03A	SC-05A	SC-06A	SC-08A	SC-10A	SC-12A	SC-15A	SC-20A	SC-25A	SC-30A	SC-40A	SC-50A
Cooling Capacity 制冷量	Kcal/h	7740	12900	15480	20640	25800	30960	38700	51600	64500	77400	103200	129000
	KW	9	15	18	24	30	36	45	60	75	90	120	150
Input Power 输入功率	KW	3.52	5.13	6.31	7.31	10.66	12.94	14.82	20.46	24.78	28.24	40.52	45.1
Power 电压		3PH 380V 50HZ or customized											
Refrigerant 制冷剂	Type 类型	R22 (R134A/407C/404A/410A)											
	Control Mode	Outside the balanced thermal expansion valve											
Compressor 压缩机	Type 类型	Fully enclosed vortex type (scroll)											
	Power (KW) 功率	2.55	4.03	4.66	5.61	8.06	9.34	11.22	16.66	18.68	22.44	33.32	38.1
Condenser 冷凝器	Type 类型	Efficient copper tube set of aluminum finned + Low noise external rotor fan											
	Cooling Air Flow (m³/h) 冷却风量	3000	5000	6000	8000	10000	12000	15000	20000	25000	30000	40000	50000
	Fan motor Number 风机数量	1	1	1	1	2	2	2	2	2	4	4	2
Evaporator 蒸发器	Type 类型	304SS water tank + 304SS coiled type evaporator								304SS water tank + shell and tube evaporator			
	Chilled Water Flow (m³/h) 冷冻水流量	1.54	2.57	3.09	4.11	5.14	6.17	7.71	10.29	12.86	15.43	20.57	25.71
	Water Tank (L) 水箱	75	105	135	210	210	210	210	300	300	360	675	700
	Pipe Diameter 管径	DN25			DN40			DN50			DN65		
Pump 泵	Power (KW) 功率	0.55	0.55	1.1	1.1	1.5	2.2	2.2	2.2	2.2	3	4	4
	Column Head (M) 扬程	22	21	26	25	25.5	27.9	27.9	27.5	27	33	29	29
Safety Protection 安全保护		Compressor overheating protection/over-current protection/phase detection/ pressure detection/temperature anomaly/power short circuit/overload protection											
Size 尺寸	Length (mm) 长	1070	1070	1160	1210	1800	1800	1800	2098	2098	2050	2300	2300
	Width (mm) 宽	700	700	750	750	851	851	851	1100	1100	1800	2160	1150
	Height (mm) 高	1436	1600	1670	1712	1537	1537	1537	2083	2083	1863	2120	2480
Weight 重量	Kg	150	200	240	280	350	450	600	830	900	950	1050	1100
Measures Exchange		1RT=3.517kw 1KW=860kcal/h 10000Btu/h=2520kcal/h											

1. 制冷量名义工况为室外干球温度35°C,蒸发器进水温度12°C,出水温度7°C。
2. 本公司另有风冷系列、中低温系列和超低温复叠系列涡旋冷水机组产品可供选购,也可按用户要求定制产品,欢迎垂询。
3. 本公司另有R134a,R407C,R507,R404A等制冷剂系列涡旋冷水机组产品可供选购,具体参数请见相关数据表,欢迎垂询。

风冷涡旋冷水机 -SC 系列 (-5°C) 产品参数

Air cooled scroll Chiller-SC Series (-5°C) Specifications

参数Parameter	型号Model	03ASM	05ASM	06ASM	08ASM	10ADM	12ASM	15ADM	20ADM	25ADM	30AFM	40AFM	50ADM
制冷量 Refrigerating capacity	kW	4.23	7.8	8.98	12	15.6	18.5	24	32.9	37	48	65.8	75.9
	x10 ⁴ kcal/hr	0.36	0.67	0.77	1.03	1.34	1.59	2.06	2.83	3.18	4.13	5.66	6.5
整机功率 Consumed Power(kW)		3.21	5.11	6.29	7.23	10.62	12.72	14.66	19.84	22.4	27.92	39.28	44.2
整机电流Running Amp(A)		5.98	9.86	11.37	14.05	20.5	23.7	28.4	38.24	40.57	54.04	75.78	80.04
压缩机 Compressor	数量 Number	1	1	1	1	2	1	2	2	2	4	4	2
	功率 Power(kw)	2.24	4.01	4.64	5.53	8.02	9.12	11.06	16.04	18.60	22.12	32.08	37.2
	电流 Current(A)	4.04	7.66	8.17	10.61	15.32	16.50	21.22	30.64	32.97	42.44	61.28	65.94
制冷剂 Refrigerant	类型 Type	R22											
	控制方式 Control mode	外平衡热力膨胀阀											
水泵 Pump	形式 Type	304不锈钢高效低噪声离心水泵											
	功率 Power(kW)	0.55	0.55	1.1	1.1	1.5	2.2	2.2	2.2	2.2	3	4	4
	电流 Current(A)	1.1	1.1	2.2	2.2	3	4.4	4.4	4.4	4.4	6	8.1	8.1
	扬程 Head(m)	22	21	26	25	25.5	27.9	27.9	27.5	27	33	29	29
冷凝器 Condenser	形式 Type	亲水铝箔亲水高效内螺纹铜管翅片											
	散热风扇数量 cooling fan number	1	1	1	1	2	2	2	2	2	4	4	2
	单台电机功率 single fan power(kW)	0.42	0.55	0.55	0.6	0.55	0.7	0.7	0.8	0.8	0.7	0.8	1.5
蒸发器 Evaporator	水管接口 Water Pipe	DN25				DN40				DN50		DN65	
外形尺寸 Size	长 Length(mm)	1070	1070	1160	1210	1800	1800	1800	2098	2098	2050	2300	2300
	宽 Width(mm)	700	700	750	750	851	851	851	1100	1100	1800	2160	1150
	高 Height(mm)	1436	1600	1670	1712	1536.5	1536.5	1536.5	2083	2083	1863	2120	2480
水箱容积 Tank Volume(L)		50	75	90	100	120	160	160	250	300	300	/	/
整机重量 Total weight(kg)		150	200	240	280	350	450	600	830	900	950	1050	1100

1. 制冷量名义工况为室外干球温度35°C,蒸发器进水温度0°C,出水温度-5°C。
2. 本公司另有水冷系列、中低温系列和超低温复叠系列涡旋冷水机组产品可供选购,也可按用户要求定制产品,欢迎垂询。
3. 本公司另有R134a,R407C,R507,R404A等制冷剂系列涡旋冷水机组产品可供选购,具体参数请见相关数据表,欢迎垂询。

水冷涡旋冷水机

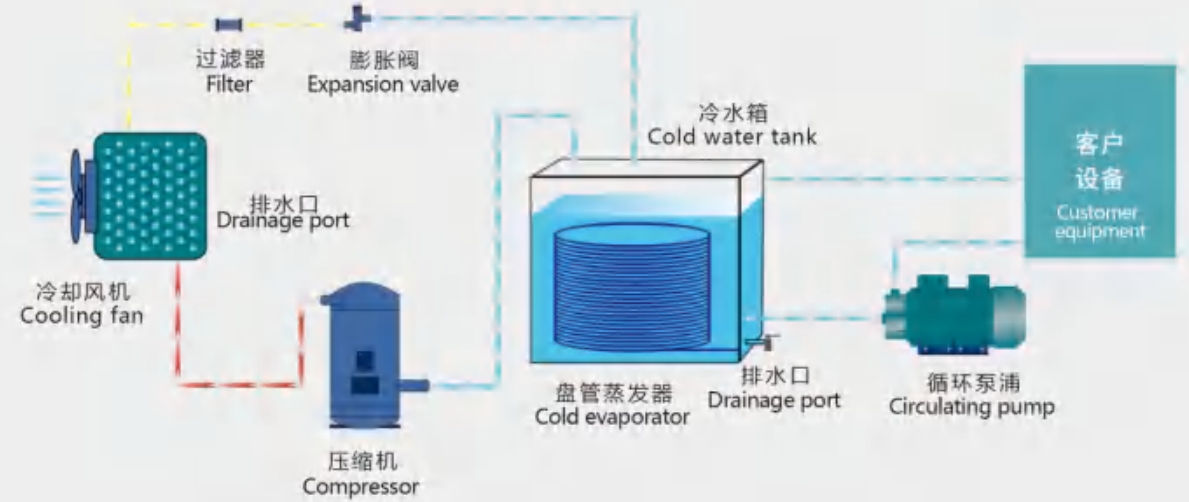
Water cooled scroll Chiller

产品特点 Features

- ▲ 采用欧美进口压缩机头；
 - ▲ 铜管采用无氧焊接法；
 - ▲ RS485 通讯功能，实现自动化管理（选购）；
 - ▲ 采用进口高级组件，使用寿命长；
 - ▲ 电器采用 SIEMENS.SCHNEIDER.LG.MOELLER.West；
 - ▲ 控制方式：采用进口微电脑或 PLC 控制（选购）；
 - ▲ 安全保护完善，故障显示，维修，保养无需专业人员；
 - ▲ 高效率之蒸发器及冷凝器，可节省能源 30% 以上。
- ▲ Adopt imported compressor heads from Europe and America;
 - ▲ The copper tubes are welded by oxygen-free welding method;
 - ▲ RS485 communication function for automated management (optional);
 - ▲ It adopts imported high-grade components and has a long service life;
 - ▲ Electrical appliances using SIEMENS. SCHNEIDER. LG. MOELLER. West;
 - ▲ Control mode: Imported microcomputer or PLC control is adopted (optional);
 - ▲ The safety protection is complete. Fault display, maintenance and repair do not require professional personnel.
 - ▲ High-efficiency evaporators and condensers can save more than 30% of energy.



产品原理 Schematic Diagram



水冷涡旋冷水机 -SC 系列 (7°C) 产品参数

Water cooled scroll Chiller-SC Series (7°C) Specifications

Model		SC-03W	SC-05W	SC-06W	SC-08W	SC-10W	SC-12W	SC-15W	SC-20W	SC-25W	SC-30W	SC-40W	SC-50W
Cooling Capacity 制冷量	Kcal/h	7740	12900	15480	20640	25800	30960	38700	51600	64500	77400	103200	129000
	KW	9	15	18	24	30	36	45	60	75	90	120	150
Input Power 输入功率	KW	3.1	4.58	5.76	6.71	9.56	11.54	13.42	18.86	20.88	25.44	37.32	42.1
Power 电压		3PH 380V 50HZ or customized											
Refrigerant 制冷剂	Type 类型	R22 (R134A/407C/404A/410A)											
	Control Mode	Outside the balanced thermal expansion valve 外平衡式热力膨胀阀											
Compressor 压缩机	Type 类型	Fully enclosed vortex type (scroll)											
	Power (KW) 功率	2.55	4.03	4.66	5.61	8.06	9.34	11.22	16.66	18.68	22.44	33.32	38.1
Condenser 冷凝器	Type 类型	Shell and tube type condenser											
	Cooling Water Flow (m³/h) 冷却水流量	2.07	3.36	4.07	5.26	6.78	8.15	10.01	13.52	16.44	19.79	26.97	32.93
	Pipe Diameter 管径	DN25			DN40			DN50			DN65		
Evaporator 蒸发器	Type 类型	304SS water tank + 304SS coiled type evaporator								304SS water tank + shell and tube evaporator			
	Cooling Water Flow (m³/h) 冷却水流量	1.54	2.57	3.09	4.11	5.14	6.17	7.71	10.29	12.86	15.43	20.57	25.71
	Water Tank (L) 水箱	50	45	90	120	120	160	160	250	300	300	500	500
	Pipe Diameter 管径	DN25			DN40			DN50			DN65		
Pump 泵	Power (KW) 功率	0.55	0.55	1.1	1.1	1.5	2.2	2.2	2.2	2.2	3	4	4
	Column Head (M) 扬程	22	21	26	25	25.5	27.9	27.9	27.5	27	33	29	29
Safety Protection 安全保护		Compressor overheating protection/over-current protection/phase detection/ pressure detection/temperature anomaly/power short circuit/overload protection											
Size 尺寸	Length (mm) 长	900	900	900	1300	1300	1450	1450	1800	1800	2200	2500	2500
	Width (mm) 宽	650	650	650	800	500	900	900	1000	1000	1350	1350	1350
	Height (mm) 高	1090	1090	1090	1750	1750	1750	1537	1800	1800	1400	1800	1800
Weight 重量	Kg	150	220	260	310	360	450	650	850	1050	1250	1350	1400
Measures Exchange		1RT=3.517kw 1KW=860kcal/h 10000Btu/h=2520kcal/h											

水冷涡旋冷水机 -SC 系列 (-5°C) 产品参数

Water cooled scroll Chiller-SC Series (-5°C) Specifications

参数Parameter		型号Model	03WSM	05WSM	06WSM	08WSM	10WDM	12WSM	15WDM	20WDM	25WSM	30WFM	40WFM	50WDM	
制冷量 Refrigerating capacity	kW		4.82	8.92	10.3	13.25	17.84	21.2	26.5	36.9	42.4	53	73.8	87.4	
	x10 ⁴ kcal/hr		0.42	0.88	0.89	1.14	1.53	1.82	2.3	3.17	3.65	4.56	6.35	7.52	
整机功率 Consumed Power(kW)			2.37	3.75	4.23	5.15	7.50	8.59	10.70	14.90	17.35	21.40	29.40	34.30	
整机电流RunningAmp(A)			3.24	7.75	7.83	10.67	15.5	16.69	22.14	32	32.37	44.28	63.3	64.04	
压缩机 Compressor	数量 Number		1	1	1	1	2	1	2	2	1	4	4	2	
	功率 Power(kw)		1.82	3.20	3.68	4.60	6.4	7.49	9.2	12.70	15.15	18.4	25.4	30.3	
	电流Current(A)		2.14	6.65	6.73	9.57	13.3	14.49	19.1	27.60	27.97	38.3	55.2	55.94	
制冷剂 Refrigerant	类型 Type		R22								R410A		R22		R410A
	控制方式 Controlmode		外平衡式热力膨胀阀												
	形式 Type		高效低噪声离心水泵												
水泵 Pump	功率 Power(kW)		0.55	0.55	0.55	0.55	1.1	1.1	1.5	2.2	2.2	3	4	4	
	电流 Current(A)		1.1	1.1	1.1	1.1	2.2	2.2	3	4.4	4.4	6	8.1	8.1	
	扬程 Head(m)		22	21	21	20.5	25.5	24.5	23.5	27.5	27	33	29	29	
冷凝器 Condenser	水管接口 Water Pipe		DN25			DN40			DN50			DN65			
	水流量 WaterFlowRate(m³/h)		1.73	3.11	3.70	4.25	6.22	7.32	8.51	12.74	14.99	17.01	25.47	29.99	
蒸发器 Evaporator	水管接口 Water Pipe		DN25			DN40			DN50			DN65			
	水流量 WaterFlowRate(m³/h)		1.0	1.5		2.2	3.1	3.5	4.4	6.2	7.0	9.5	12.4		
外形尺寸 Size	长 Length(mm)		900	900	900	1300	1300	1450	1450	1800	1800	2200	2500	2500	
	宽 Width(mm)		650	650	650	800	800	900	900	1000	1000	1350	1350	1350	
	高 Height(mm)		1090	1090	1090	1750	1750	1750	1750	1800	1800	1400	1800	1800	
水箱容积Tank Volume(L)			50	75	90	120	120	160	160	250	300	300	500	500	
整机重量Total weight(kg)			150	220	260	310	360	450	650	850	1050	1250	1350	1400	

1. 制冷量名义工况为室外干球温度35°C,蒸发器进水温度12°C,出水温度7°C。
2. 本公司另有风冷系列、中低温系列和超低温复叠系列涡旋冷水机组产品可供选购,也可按用户要求定制产品,欢迎垂询。
3. 本公司另有R134a,R407C,R507,R404A等制冷剂系列涡旋冷水机组产品可供选购,具体参数请见相关数据表,欢迎垂询。

1. 制冷量名义工况为室外干球温度35°C,蒸发器进水温度 0°C,出水温度-5°C。
2. 本公司另有风冷系列、中低温系列和超低温复叠系列涡旋冷水机组产品可供选购,也可按用户要求定制产品,欢迎垂询。
3. 本公司另有R134a,R407C,R507,R404A等制冷剂系列涡旋冷水机组产品可供选购,具体参数请见相关数据表,欢迎垂询。

风冷螺杆冷水机

Air cooled screw Chiller

螺杆式冷水机因为采用螺杆式压缩机而得名。它的制冷功率比涡旋式冷水机大。按照散热方式的不同可以分为风冷、水冷、蒸发冷螺杆式冷水机。

风冷螺杆冷水机利用空气进行散热，无需冷却水系统。机组本身自带冷却风机散热，省去冷却塔、冷却水泵及管道安装，节省空间和安装成本，尤其适合缺水或水质差的地区。

The screw chiller gets its name because it uses screw compressor. Its cooling power is greater than that of the scroll chiller. According to the different heat dissipation methods, screw chillers can be classified into air-cooled, water-cooled and evaporative condensed cooled types.

Air cooled screw chiller uses air for heat dissipation and does not require a cooling water system. The unit itself is equipped with a cooling fan for heat dissipation, eliminating the need for cooling tower, cooling water pump and pipeline installation, thus saving space and installation costs. It is especially suitable for areas with water shortage or poor water quality.

产品特点 Features

- ▲ 采用高效的进口优质螺杆式压缩机，如汉钟，比泽尔等；
- ▲ V 型高效铜管铝翅片冷凝器 + 低噪音外转子风扇
- ▲ 壳管式蒸发器，高效率，运行稳定；
- ▲ 采用 SIEMENS, EMERSON, CASTEL, SAGINOMIY, SCHNEIDER 等品牌配件；
- ▲ 安全保护及故障显示系统完善，维修，保养无需专业人员；
- ▲ RS485 通讯，可实现自动化管理；
- ▲ PLC 控制，可靠性高，抗干扰能力强；
- ▲ 电控柜，管路可防爆设计（选购）。
- ▲ High efficiency imported high quality screw compressor,such as Hanbell, Bitzer and so on.
- ▲ V type high efficiency copper tube set of aluminum finned + low noise external rotor fan
- ▲ Shell and tube evaporator, high efficiency, stable operation.
- ▲ SIEMENS, EMERSON, CASTEL, SAGINOMIY, SCHNEIDER and other brand accessories.
- ▲ Perfect display of the safety protection and alarm system, simple operation and maintenance.
- ▲ RS485 communication for automatic management.
- ▲ PLC control,high reliability,strong anti-interference ability.
- ▲ Explosion-proof design of electric control cabinet and pipeline (optional).



风冷螺杆冷水机参数表 1

air cooled screw chiller Specifications 1

Model 型号		SC-100AS	SC-140AS	SC-180AS	SC-200AS	SC-230AS	SC-260AS	SC-300AS	SC-310AS	SC-340AS	SC-370AS	SC-410AS
Cooling Capacity 制冷量	Kcal/h	84538	116702	153252	164604	204508	220246	259548	274168	305300	328778	357502
	KW	98.3	135.7	178.2	191.4	237.8	256.1	301.8	318.8	355	382.3	415.7
Input Power 输入功率	KW	27.4	35	44.6	48.5	57.2	63.8	71.3	77.7	83.8	90.3	98.7
Power Supply 电压		3PH 380V 50HZ or customized										
Refrigerant 制冷剂	Type 类型	R22 (R134a/407c/404a/410a)										
	Control Mode 控制方式	Outside the balanced thermal expansion valve										
Compressor 压缩机	Type 类型	Semi-hermetic screw										
	Start Mode 启动方式	Y-△										
	Energy Control(%) 能量控制	0-25-50-75-100%										
	Input Power KW 输入功率	24.1	31.7	39.8	43.7	52.4	57.2	64.7	68.9	75	81.5	89.9
Evaporator 蒸发器	Type 类型	shell and tube										
	Chilled Water Flow (m³/h) 冷冻水机流量	17	23	31	33	41	44	52	55	61	66	71
	Pipe Diameter 管径	DN65	DN65	DN65	DN65	DN80	DN80	DN100	DN100	DN100	DN125	DN125
Condenser 冷凝器	Type 类型	Efficient copper tube set of aluminum finned + Low noise external rotor fan										
	Fan motor Number 风机数量	6	6	6	6	6	6	6	8	8	8	8
	Single Fan Motor Power (KW) 单风机功率	0.55	0.55	0.8	0.80	0.80	1.10	1.10	1.10	1.10	1.10	1.10
	Cooling Air Flow (m³/h) 冷却风量	46500	46500	57000	57000	57000	93000	93000	124000	124000	124000	124000
Safety Protection 安全保护		Compressor overheating protection/over-current protection/phase detection/pressure detection/temperature anomaly/power short circuit/overload protection										
Size 尺寸	L*W*H (mm) 长宽高	2300*1200*2000	2500*1200*2000	2800*1600*2000	2900*1800*2200	2900*2100*2200	3000*2100*2200	2400*2100*2200	3600*2100*2200	3800*2100*2200	3800*2100*2500	3900*2100*2200
Net Weight 净重	Kg	1800	2000	2200	2400	2600	2800	3000	3200	3500	3700	3800
Measures Exchange		1KW=860kcal/h 1RT=3.024kcal/h 10000Btu/h=2520kcal/h										

风冷螺杆冷水机参数表 2

air cooled screw chiller Specifications 2

Model 型号		SC-470AS	SC-510AS	SC-550AS	SC-580AS	SC-620AS	SC-710AS	SC-790AS	SC-830AS	SC-930AS	SC-1020AS	SC-1130AS
Cooling Capacity 制冷量	Kcal/h	434214	453822	501896	543520	564418	657298	707436	770044	868772	979626	1118000
	KW	504.9	527.7	583.6	632	656.3	764.3	822.6	895.4	1010.2	1139.1	1300
Input Power 输入功率	KW	118.7	121	138.7	147.1	153.4	172.5	188.3	204.2	231.8	257.3	283.9
Power Supply 电压		3PH 380V 50HZ or customized										
Refrigerant 制冷剂	Type 类型	R22 (R134a/407c/404a/410a)										
	Control Mode 控制方式	Outside the balanced thermal expansion valve										
Compressor 压缩机	Type 类型	Semi-hermetic screw										
	Start Mode 启动方式	Y-△										
	Energy Control(%) 能量控制	0-25-50-75-100%										
	Input Power KW 输入功率	107.6	109.9	123.9	132.3	138.6	157.7	169.8	185.7	209.6	235.1	261.7
Evaporator 蒸发器	Type 类型	shell and tube										
	Chilled Water Flow (m³/h) 冷冻水机流量	87	90	100	108	113	131	141	153	173	195	223
	Pipe Diameter 管径	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200
Condenser 冷凝器	Type 类型	Efficient copper tube set of aluminum finned + Low noise external rotor fan										
	Fan motor Number 风机数量	6	6	8	8	8	8	10	10	12	12	12
	Single Fan Motor Power (KW) 单风机功率	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
	Cooling Air Flow (m³/h) 冷却风量	150000	150000	200000	200000	200000	200000	250000	250000	300000	300000	300000
Safety Protection 安全保护		Compressor overheating protection/over-current protection/phase detection/pressure detection/temperature anomaly/power short circuit/overload protection										
Size 尺寸	L*W*H (mm) 长宽高	4200*2100*2200	4400*2100*2200	4500*2100*2200	4500*2100*2200	4800*2100*2200	5300*2100*2200	5500*2100*2200	5800*2100*2200	6000*2100*2200	6000*2100*2500	6500*2100*2200
Net Weight 净重	Kg	4000	4200	4400	4500	4800	5100	5300	5600	5900	6100	6300
Measures Exchange		1KW=860kcal/h 1RT=3.024kcal/h 10000Btu/h=2520kcal/h										

水冷常温螺杆式冷水机

Water cooled screw chiller

螺杆式冷水机因为采用螺杆式压缩机而得此名。它的制冷功率比涡旋式冷水机大。按照散热方式的不同可以分为水冷、风冷、蒸发冷螺杆式冷水机。

水冷螺杆式冷水机主要是由压缩机、蒸发器、冷凝器、冷冻配件、电控系统等组成。它要另外配备辅助设备换热，以提供水冷螺杆式冷水机所需要的循环冷却水。配套的辅助设备包括：冷却水塔、循环水泵、双层不锈钢保温水箱。

The screw chiller gets its name because it uses a screw compressor. Its cooling power is greater than that of the scroll chiller. According to the different heat dissipation methods, screw chillers can be classified into water-cooled, air-cooled and evaporative cooled types.

The water-cooled screw chiller is mainly composed of a compressor, evaporator, condenser, refrigeration accessories, electrical control system, etc. It needs to be equipped with additional auxiliary equipment for heat exchange to provide the circulating cooling water required by the water-cooled screw chiller. The supporting auxiliary equipment includes: cooling water tower, circulating water pump, and double-layer stainless steel insulated water tank.

产品特点 Features

- ▲ 采用高效的进口优质螺杆式压缩机，如汉钟，比泽尔等；
- ▲ 壳管式蒸发器和冷凝器，高效率，运行稳定；
- ▲ 采用 OMRON、FUJI、TE、LG、ABB、SIEMENS 等品牌配件；
- ▲ 安全保护及故障显示系统完善，维修，保养无需专业人员；
- ▲ RS485 通讯，可实现自动化管理；
- ▲ PLC 控制，可靠性高，抗干扰能力强；
- ▲ 电控柜、管路可防爆设计。

- ▲ Adopt high-efficiency imported high-quality screw compressors, such as Hanbell, Bitzer, etc.
- ▲ Shell and tube evaporator and condenser, high efficiency and stable operation;
- ▲ Accessories of brands such as OMRON, FUJI, TE, LG, ABB and SIEMENS are adopted;
- ▲ The safety protection and fault display system is complete. Maintenance and repair do not require professional personnel.
- ▲ RS485 communication enables automated management
- ▲ PLC control, high reliability and strong anti-interference ability
- ▲ The electrical control cabinet and pipelines can be designed for explosion-proof purposes.



水冷常温螺杆式冷水机（单机头）产品参数

water cooled screw chiller single compressor specifications

Parts 项目	Symbol 单位	Model 型 号											
		CHC-100S	CHC-140S	CHC-180S	CHC-200S	CHC-230S	CHC-260S	CHC-300S	CHC-310S	CHC-340S	CHC-370S	CHC-410S	CHC-470S
Cooling capacity 制冷量	kw	91.0	125.7	165.0	177.3	220.3	237.2	279.5	295.3	328.8	354.1	385.0	467.6
	kcal/h*10 ⁴	7.8	10.8	14.2	15.2	18.9	20.4	24.0	25.4	28.3	30.5	33.1	40.2
Power supply 电源		3N/380V/50Hz											
Operation current 运行电流	A	40.1	54	70.5	76.2	88.1	95.5	108.6	115.4	125.3	135.1	149	178.1
Input power 输入功率	kW	24	31.5	39.5	43.5	52	56.8	64.3	68.5	74.6	80.8	89.3	106.6
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机											
	启动方式 Start mode	0-33-66-100% + Y-Δ 33% 载荷 + 星—三角降压启动											
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式											
	水流量 chilled water flow	15.7	21.7	28.4	30.5	37.9	40.9	48.1	50.9	56.6	61.0	66.3	80.5
	水压降 water pressure drop	50-80											
Condenser 冷凝器	型式 type	shell and tube 卧式管壳式											
	水流量 cooling water flow	19.7	27.0	35.1	37.9	46.7	50.5	59.0	62.5	69.3	74.7	81.4	98.7
	水压降 water pressure drop	40-70											
Refrigerant 冷媒	名称 type	R22											
	充注量 charging	19	23	30	34	40	42	50	50	57	63	71	83
Pipe diameter 接管规格	冷凝器 condenser	2-DN65	2-DN65	2-DN65	2-DN65	2-DN80	2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN125
	蒸发器 evaporator	2-DN65	2-DN65	2-DN65	2-DN65	2-DN80	2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN125
	排水管 drain out water	1/2"											
	长 Length	2320	2550	2950	2950	2980	2980	2980	2980	3080	3080	3080	3080
size 外形尺寸	宽 width	900	950	950	950	1000	1000	1100	1100	1150	1150	1150	1280
	高 height	1420	1450	1480	1550	1650	1650	1750	1750	1900	1900	1900	1950
	净重 net weight	750	810	1040	1120	1200	1350	1600	1670	1720	1820	2010	2250
weight 重量	运行重量 running weight	830	930	1170	1250	1370	1540	1840	1840	1900	2020	2300	2580

Parts 项目	Symbol 单位	Model 型 号											
		CHC-510S	CHC-550S	CHC-580S	CHC-620S	CHC-710S	CHC-790S	CHC-830S	CHC-930S	CHC-1020S	CHC-1130S	CHC-1270S	CHC-1530S
Cooling capacity 制冷量	kw	488.8	540.6	585.3	607.9	707.9	761.9	829.3	935.7	1055.1	1204.4	1351.2	1567.3
	kcal/h*10 ⁴	42.0	46.5	50.3	52.3	60.9	65.5	71.3	80.5	90.7	103.6	116.2	134.8
Power supply 电源		3N/380V/50Hz											
Operation current 运行电流	A	182.3	205.2	219.5	230.4	259.5	281.9	312.4	350.5	407.3	449.8	494.9	576
Input power 输入功率	kW	24	31.5	39.5	43.5	52	56.8	64.3	68.5	74.6	80.8	89.3	106.6
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机											
	启动方式 Start mode	0-25-50--75-100% + Y-Δ 25% 载荷 + 星—三角降压启动											
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式											
	水流量 chilled water flow	84.2	93.1	100.8	104.7	121.9	131.2	142.8	161.2	181.7	207.5	232.7	270.0
	水压降 water pressure drop	50-80											
Condenser 冷凝器	型式 type	shell and tube 卧式管壳式											
	水流量 cooling water flow	102.7	114.0	123.1	128.0	148.5	159.9	174.2	196.6	221.5	251.7	282.1	327.0
	水压降 water pressure drop	40-70											
Refrigerant 冷媒	名称 type	R22											
	充注量 charging	86	92	97	103	116	139	147	158	179	200	221	257
Pipe diameter 接管规格	冷凝器 condenser	2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200	2-DN200	2-DN200
	蒸发器 evaporator	2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200	2-DN200	2-DN200
	排水管 drain out water	1/2"											
	长 Length	3300	3300	3300	3300	3750	3750	3750	4200	5000	5350	5500	6000
size 外形尺寸	宽 width	1300	1300	1400	1400	1400	1400	1450	1450	2200	2200	2300	2300
	高 height	2000	2060	2150	2150	2200	2200	2350	2400	2450	2500	2600	2600
	净重 net weight	2340	2460	2680	2780	3100	3200	3370	3800	4700	5100	5550	6000
weight 重量	运行重量 running weight	2700	2840	3060	3200	3520	3620	3950	4440	5450	5900	6450	7000

- 1、制冷量名义工况为冷凝器进水温度 30℃, 出水温度 35℃; 蒸发器进水温度 12℃, 出水温度 7℃。
- 2、本公司另有风冷系列、蒸发冷系列、中温系列和超低温复叠系列螺杆冷水机组产品可供选购, 也可按用户要求定制产品, 欢迎垂询。
- 3、本公司另有 R134a, R407C, R507, R404A 等制冷剂系列螺杆冷水机组产品可供选购, 具体参数请见相关数据表, 欢迎垂询。

水冷常温螺杆式冷水机（双机头）产品参数

Water cooled screw chiller double compressor specifications

Parts 项目	Symbol 单位	Model 型 号											
		CHC200D	CHC280D	CHC360D	CHC400D	CHC460D	CHC520D	CHC600D	CHC620D	CHC680D	CHC740D	CHC820D	CHC940D
Cooling capacity 制冷量	kw	182.0	251.4	330.0	354.6	440.6	474.4	559.0	590.6	657.6	708.2	770.0	935.2
	kcal/h*10 ⁴	15.7	21.6	28.4	30.5	37.9	40.8	48.1	50.8	56.6	60.9	66.2	80.4
Power supply 电源		3N/380V/50Hz											
Operation current 运行电流	A	80.2	108	141	152.4	176.2	191	217.2	230.8	250.6	270.2	298	356.2
Input power 输入功率	kW	48	63	79	87	104	113.6	128.6	137	149.2	161.6	176.6	213.2
Compressor 压缩机	型式 type	semi-hermetic screw 半密封双螺杆压缩机											
	启动方式 Start mode	0-33-66-100% + Y-△ 33% 载荷 + 星—三角降压启动											
Evaporator 蒸发器	型式 type	shell and tube 卧式管壳式											
	水流量 chilled water flow	t/h	31.3	43.3	56.8	61.1	75.9	81.7	96.3	101.7	113.3	122.0	132.6
	水压降 water pressure drop	kPa	50-80										
Condenser 冷凝器	型式 type	shell and tube 卧式管壳式											
	水流量 cooling water flow	t/h	39.4	53.9	70.2	75.8	93.5	100.9	118.1	124.9	138.6	149.4	162.9
	水压降 water pressure drop	kPa	40-70										
Refrigerant 制冷剂	名称 type	R22											
	充注量 charging	Kg	34	44	58	64	76	80	92	96	108	120	138
Pipe diameter 接管规格	冷凝器 condenser		4-DN65	4-DN65	4-DN65	4-DN65	4-DN80	4-DN80	4-DN100	4-DN100	4-DN100	4-DN125	4-DN125
	蒸发器 evaporator		2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150
	放水阀 drain out water		1/2"										
size 外形尺寸	长 Length	mm	2600	2700	3200	3200	3430	3430	3450	3450	3950	3950	3950
	宽 width	mm	910	980	1070	1070	1110	1150	1200	1200	1200	1200	1390
	高 height	mm	1600	1650	1700	1700	1810	1850	1950	1950	1950	2000	2150
weight 重量	净重 net weight	Kg	1350	1590	1810	2100	2450	2650	3100	3200	3280	3560	4200
	运行重量 running weight	Kg	1600	1800	2070	2370	2750	2900	3750	3850	3900	4230	5100

Parts 项目	Symbol 单位	Model 型 号											
		CHC1020D	CHC1100D	CHC1160D	CHC1240D	CHC1420D	CHC1580D	CHC1660D	CHC1860D	CHC2040D	CHC2260D	CHC2540D	CHC3060D
Cooling capacity 制冷量	kw	977.6	1081.2	1170.6	1215.8	1415.8	1523.8	1658.6	1871.4	2110.2	2408.8	2702.4	3134.6
	kcal/h*10 ⁴	84.1	93.0	100.7	104.6	121.8	131.0	142.6	160.9	181.5	207.2	232.4	269.6
Power supply 电源		3N/380V/50Hz											
Operation current 运行电流	A	364.6	410.4	439	460.8	519	563.8	624.8	701	814.6	899.6	989.8	1152
Input power 输入功率	kW	218	245.4	262.2	274.8	312.8	338	369.4	417	468	519.6	580.4	669.8
Compressor 压缩机	型式 type	semi-hermetic screw 半密封双螺杆压缩机											
	启动方式 Start mode	0-25-50-75-100% + Y-△ 25% 载荷 + 星—三角降压启动											
Evaporator 蒸发器	型式 type	shell and tube 卧式管壳式											
	水流量 chilled water flow	t/h	168.4	186.2	201.6	209.4	243.9	262.5	285.7	322.3	363.5	414.9	465.5
	水压降 water pressure drop	kPa	50-80										
Condenser 冷凝器	型式 type	shell and tube 卧式管壳式											
	水流量 cooling water flow	t/h	205.5	228.0	246.2	256.1	297.1	319.9	348.4	393.2	443.0	503.3	564.3
	水压降 water pressure drop	kPa	40-70										
Refrigerant 制冷剂	名称 type	R22											
	充注量 charging	Kg	164	176	184	196	220	264	280	300	340	380	420
			490										
Pipe 冷媒器 condenser		4DN125	4-DN125	4-DN150	4-DN150	4-DN150	4-DN150	4-DN150	4-DN150	4-DN200	4-DN200	4-DN200	4-DN200
Pipe 蒸发器 evaporator		2-DN200	2-DN200	2-DN200	2-DN200	2-DN200	2-DN200	2-DN200	2-DN250	2-DN300	2-DN300	2-DN300	2-DN300
接管规格 drain out water		1/2"											
size 外形尺寸	长 Length	mm	3950	3950	4100	4100	4560	4700	4700	5250	5350	5350	6000
	宽 width	mm	1390	1390	1390	1390	1400	1480	1480	1480	2300	2300	2300
	高 height	mm	2330	2330	2360	2360	2450	2450	2450	2450	2750	2800	2850
weight 重量	净重 net weight	Kg	4400	4600	5100	5300	5900	6100	6800	7680	9500	10800	12500
	运行重量 running weight	Kg	5230	5530	6050	6290	6900	7100	8180	8600	10600	12500	14500
			13800										
			16200										

- 1、制冷量名义工况为冷凝器进水温度 30℃, 出水温度 35℃; 蒸发器进水温度 12℃, 出水温度 7℃。
- 2、本公司另有风冷系列、蒸发冷系列、中温系列和超低温复叠系列螺杆冷水机组产品可供选购, 也可按用户要求定制产品, 欢迎垂询。
- 3、本公司另有 R134a, R407C, R507, R404A 等制冷剂系列螺杆冷水机组产品可供选购, 具体参数请见相关数据表, 欢迎垂询。

水冷中低温螺杆式冷水机

Water cooled medium and low temperature screw chiller

水冷中低温螺杆式冷水机组是公司集数十年设计经验, 综合国内外同类产品的先进技术而设计开发的, 具有高效节能、环保、高可靠性等特点, 多项先进技术的应用, 使该产品的综合技术水平达到国际领先水平。

该设备可提供 -40℃~0℃的中低温载冷剂, 适用于有各种中低温冷源需求的场所, 如医药、化工、冶金、电子、食品等行业的生产工艺过程中, 也可作为大型冷库、冰场的冷源主机。

The water-cooled medium and low-temperature screw chiller is designed and developed by our company based on decades of design experience and by integrating the advanced technologies of similar products at home and abroad. It features high efficiency, energy conservation and environmental protection. The high reliability and the application of multiple advanced technologies have enabled the comprehensive technical level of this product to reach the international leading level.

This equipment can provide medium and low-temperature heat transfer fluids ranging from -40℃ to 0℃, and is suitable for various places with medium and low-temperature cold source requirements, such as in the production processes of the pharmaceutical, chemical, metallurgical, electronic, food and other industries. It can also be used as the main cold source for large cold storage and ice rinks.

产品特点 Features

- ▲ 采用高效的进口优质螺杆式压缩机, 如汉钟, 比泽尔等;
- ▲ 壳管式蒸发器和冷凝器, 高效率, 运行稳定;
- ▲ 采用 OMRON、FUJI、TE、LG、ABB、SIEMENS 等品牌配件;
- ▲ 安全保护及故障显示系统完善, 维修, 保养无需专业人员;
- ▲ RS485 通讯, 可实现自动化管理;
- ▲ PLC 控制, 可靠性高, 抗干扰能力强;
- ▲ 电控柜、管路可防爆设计;
- ▲ 二次油分离器的使用。

中低温冷水机组在工作过程中, 压缩比较大, 排气温度较高, 轴承承载较大为确保轴承润滑油的正常粘度, 需使用高粘度的冷冻油 (通常在 220~320 之间), 而此高粘度冷冻油一旦进入蒸发器, 蒸发器内部温度在 -5℃~-40℃ 左右, 润滑油的粘度变得特别大, 会附着在换热管的内表面, 形成一层厚厚的油膜, 严重影响了换热效果, 且较易造成压缩机失油。为此, 在压缩机排气与冷凝器之间增加一个二次油分, 将进入蒸发器的润滑油量减至最低。不但提高了制冷效率, 同时也提升了产品运行的可靠性。

- ▲ Adopt high-efficiency imported high-quality screw compressors, such as Hanbell, Bitzer, etc.
- ▲ Shell and tube evaporator and condenser, high efficiency and stable operation;
- ▲ Accessories of brands such as OMRON, FUJI, TE, LG, ABB and SIEMENS are adopted;
- ▲ The safety protection and fault display system is complete, and no professional personnel are required for maintenance and repair.
- ▲ RS485 communication enables automated management
- ▲ PLC control, high reliability and strong anti-interference ability;
- ▲ The electrical control cabinet and pipelines can be designed for explosion-proof purposes.
- ▲ The use of secondary oil separators

During the operation of medium and low-temperature water chillers, the compression ratio is relatively large. When the exhaust temperature is relatively high and the bearing load is large, to ensure the normal viscosity of the bearing lubricating oil, high-viscosity refrigeration oil (usually between 220 and 320) must be used. Once this high-viscosity refrigeration oil enters the evaporator, the internal temperature of the evaporator is around -5 °C to -40°C, and the viscosity of the lubricating oil becomes particularly high, adhering to the inner surface of the heat exchange tubes and forming a thick layer. The oil film seriously affects the heat exchange effect and is more likely to cause the compressor to lose oil. To this end, a secondary oil separator is added between the compressor exhaust and the condenser to minimize the amount of lubricating oil entering the evaporator. This not only improves the refrigeration efficiency but also enhances the reliability of the product operation.



水冷中低温螺杆式冷水机（单机头）产品参数

Water cooled screw chiller Single compressor specifications

Parts 项 目		Symbol 单位	Model 型 号											
			CHCZ-100S	CHCZ-140S	CHCZ-180S	CHCZ-200S	CHCZ-230S	CHCZ-260S	CHCZ-300S	CHCZ-310S	CHCZ-340S	CHCZ-370S	CHCZ-410S	CHCZ-470S
Cooling capacity 制冷量	kw	51.9	71.7	94.1	101.1	125.5	135.2	159.3	168.3	187.4	201.8	219.5	266.5	
	kcal/h*10 ⁴	4.5	6.2	8.1	8.7	10.8	11.6	13.7	14.5	16.1	17.4	18.9	22.9	
Power supply 电源		3N/380V/50Hz												
Operation current 运行电流	A	38	51.3	67.4	72.7	83.5	90.6	102.9	109.1	118.6	127.9	140.8	168.4	
Input power 输入功率	kW	22.6	29.7	37.3	41	49	53.6	60.7	64.5	70.3	76.2	84.2	100.6	
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机												
	启动方式 Start mode	0-33-66-100% + Y-△ 33% 载荷 + 星—三角降压启动												
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式												
	水流量 chilled water flow	t/h	10.7	14.7	19.4	20.8	25.8	27.8	32.8	34.6	38.6	41.5	45.2	54.8
	水压力降 water pressure drop	kPa	50-80											
	型式 type	shell and tube 卧式管壳式												
Condenser 冷凝器	水流量 cooling water flow	t/h	12.6	17.3	22.4	24.2	29.7	32.1	37.5	39.7	43.9	47.4	51.7	62.6
	水压力降 water pressure drop	kPa	40-70											
Refrigerant 冷媒	名称 type	R22												
	充注量 charging	Kg	16	19	27	30	34	36	42	45	50	57	64	71
Pipe diameter 接管规格	冷凝器 condenser		2-DN65	2-DN65	2-DN65	2-DN65	2-DN80	2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN125
	蒸发器 evaporator		2-DN65	2-DN65	2-DN65	2-DN65	2-DN80	2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN125
	放水阀 drain out water		1/2"											
size 外形尺寸	长 length	mm	2300	2500	2930	2930	2960	2960	3040	3040	3040	3060	3100	3150
	宽 width	mm	910	940	940	940	1010	1010	1080	1080	1180	1180	1180	1240
	高 height	mm	1400	1400	1450	1500	1600	1600	1730	1730	1760	1730	1900	1940
weight 重量	净重 net weight	Kg	700	760	970	1050	1130	1260	1400	1500	1600	1700	1880	2100
	运行重量 running weight	Kg	780	870	1100	1180	1300	1450	1640	1740	1850	1950	2170	2430

Parts 项 目		Symbol 单位	Model 型 号											
			CHCZ-510S	CHCZ-550S	CHCZ-580 S	CHCZ-620S	CHCZ-710S	CHCZ-790S	CHCZ-830S	CHCZ-930S	CHCZ-1020S	CHCZ-1130S	CHCZ-1270S	CHCZ-1230S
Cooling capacity 制冷量	kw	278.6	308.1	333.6	346.5	403.5	434.3	472.7	533.3	601.3	686.5	770.2	893.3	
	kcal/h*10 ⁴	24.0	26.5	28.7	29.8	34.7	37.3	40.7	45.9	51.7	59.0	66.2	76.8	
Power supply 电源		3N/380V/50Hz												
Operation current 运行电流	A	172.4	93.7	207.2	218	245.5	266.7	295.8	332.3	385.5	424.7	467.9	543.9	
Input power 输入功率	kW	102.9	115.9	123.9	129.6	147.6	159.3	174	196.4	220.6	244.7	272.7	315.3	
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机												
	启动方式 Start mode	0-25-50--75-100% + Y-△ 25% 载 荷 + 星—三角降压启动												
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式												
	水流量 chilled water flow	t/h	57.3	63.4	68.6	71.3	83.0	89.3	97.2	109.7	123.7	141.2	158.4	183.8
	水压力降 water pressure drop	kPa	50-80											
	型式 type	shell and tube 卧式管壳式												
Condenser 冷凝器	水流量 cooling water flow	t/h	65.1	72.3	78.0	81.2	94.0	101.2	110.3	124.5	140.2	159.0	178.2	206.4
	水压力降 water pressure drop	kPa	40-70											
Refrigerant 冷媒	名称 type	R22												
	充注量 charging	Kg	74	78	82	92	112	126	130	140	165	185	206	240
Pipe diameter 接管规格	冷凝器 condenser		2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200	2-DN200
	蒸发器 evaporator		2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200	2-DN200
	放水阀 drain out water		1/2"											
size 外形尺寸	长 Length	mm	3290	3330	3350	3350	3900	3900	3950	4240	5000	5350	5500	6000
	宽 width	mm	1240	1240	1300	1370	1370	1370	1420	2200	h200	2300	2300	
	高 height	mm	1850	1950	2100	1960	2170	2120	2280	2170	2450	2500	2600	2600
weight 重量	净重 net weight	Kg	2180	2300	2500	2600	2900	3000	3150	3560	4700	5100	5550	6000
	运行重量 running weight	Kg	2540	2680	2880	3000	3300	3520	3730	4200	5450	5900	6450	7000

1. 制冷量名义工况为冷凝器进水温度 30℃, 出水温度 35℃; 蒸发器进水温度 -5℃, 出水温度 -10℃。
2. 本公司另有风冷系列、蒸发冷系列、常温系列和超低温复叠系列螺杆冷水机组产品可供选购, 也可按用户要求定制产品, 欢迎垂询。
3. 本公司另有 R407C,R507,R404A 等制冷剂系列螺杆冷水机组产品可供选购, 具体参数请见相关数据表, 欢迎垂询。

水冷中低温螺杆式冷水机（双机头）产品参数

Water cooled screw chiller Double compressor specifications

Parts 项目	Symbol 单位	Model 型 号												
		CHCZ200D	CHCZ280D	CHCZ360D	CHCZ400D	CHCZ460D	CHCZ520D	CHCZ600D	CHCZ620D	CHCZ680D	CHCZ740D	CHCZ820D	CHCZ940D	
Cooling capacity 制冷量	kw	103.8	143.4	188.2	202.2	251.0	270.4	318.6	336.6	374.8	403.6	439.0	533.0	
	kcal/h*10 ⁴	8.9	12.3	16.2	17.4	21.6	23.3	27.4	28.9	32.2	34.7	37.8	45.8	
Power supply 电源		3N/380V/50Hz												
Operation current 运行电流	A	76	102.6	134.8	145.4	167	181.2	205.8	218.2	237.2	255.8	281.6	336.8	
Input power 输入功率	kW	45.2	59.4	74.6	82	98	107.2	121.4	129	140.6	152.4	168.4	201.2	
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机												
	启动方式 Start mode	0-33-66-100% + Y-△ 33% 载荷 + 星—三角降压启动												
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式												
	水流量 chilled water flow	t/h	21.4	29.5	38.7	41.6	51.6	55.6	65.5	69.2	77.1	83.0	109.6	
Condenser 冷凝器	水压力降 water pressure drop	kPa	50-80											
	型式 type	shell and tube 卧式管壳式												
Refrigerant 冷媒	水流量 cooling water flow	t/h	25.3	34.5	44.7	48.4	59.5	64.3	75.0	79.4	87.9	94.8	125.2	
	水压力降 water pressure drop	kPa	40-70											
Pipe diameter 接管规格	名称 type	R22												
	充注量 charging	Kg	32	38	54	60	68	72	85	90	100	114	128	142
size 外形尺寸	冷凝器 condenser		4-DN65	4-DN65	4DN65	4-DN65	4-DN80	4-DN80	4-DN100	4-DN100	4-DN100	4-DN125	4-DN125	4-DN125
	蒸发器 evaporator		2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200
weight 重量	放水阀 drain out water		1/2"											
	长 Length	mm	2600	2700	3200	3000	3430	3430	3450	3450	3950	3950	3950	3950
weight 重量	宽 width	mm	910	980	1070	1070	1110	1150	1200	1200	1200	1200	1200	1390
	高 height	mm	1600	1600	1600	1700	1810	1850	1950	1950	1950	2000	2150	2230
weight 重量	净重 net weight	Kg	1050	1590	1810	2100	2450	2650	3100	3250	3280	3560	3950	4200
	运行重量 running weight	Kg	1300	1800	2070	2370	2750	2900	3750	3910	3900	4230	4700	5100

Parts 项目		Symbol 单位	Model 型 号											
			CHCZ1020D	CHCZ1100D	CHCZ1160D	CHCZ1240D	CHCZ1420D	CHCZ1580D	CHCZ1660D	CHCZ1860D	CHCZ2040D	CHCZ2260D	CHCZ2540D	CHCZ3060D
Cooling capacity 制冷量	kw	557.2	616.2	667.2	693.0	807.0	868.6	945.4	1066.6	1202.6	1373.0	1540.4	1786.6	
	kcal/h*10 ⁴	47.9	53.0	57.4	59.6	69.4	74.7	81.3	91.7	103.4	118.1	132.5	153.6	
Power supply 电源		3N/380V/50Hz												
Operation current 运行电流	A	344.8	387.4	414.4	436	491	533.4	591.6	664.6	771	849.4	935.8	1087.8	
Input power 输入功率	kW	205.8	231.8	247.8	259.2	295.2	318.6	348	392.8	441.2	489.4	545.4	630.6	
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机												
	启动方式 Start mode	0-25-50--75-100% + Y-△ 25% 载荷 + 星—三角降压启动												
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式												
	水流量 chilled water flow	t/h	114.6	126.8	137.3	142.6	166.0	178.7	194.5	219.4	247.4	282.4	316.9	367.5
	水压力降 water pressure drop	kPa	50-80											
	型式 type	shell and tube 卧式管壳式												
Condenser 冷凝器	水流量 cooling water flow	t/h	130.1	144.6	156.1	162.4	188.1	202.5	220.6	249.0	280.4	318.0	356.3	412.8
	水压力降 water pressure drop	kPa	40-70											
Refrigerant 冷媒	名称 type	R22												
	充注量 charging	Kg	148	156	164	184	224	252	260	280	330	370	412	480
Pipe diameter 接管规格	冷凝器 condenser		4-DN125	4-DN125	4-DN150	4-DN150	4-DN150	4-DN150	4-DN150	4-DN150	4-DN200	4-DN200	4-DN200	7-DN200
	蒸发器 evaporator		2-DN200	2-DN200	2-DN200	2-DN250	2-DN200	2-DN200	2-DN200	2-DN250	2-DN300	2-DN300	2-DN300	2-DN300
	放水阀 drain out water		1/2"											
	长 Length	mm	3950	3950	4100	4100	4560	5000	5000	5250	5350	5350	5500	6000
size 外形尺寸	宽 width	mm	1390	1390	1390	1390	1480	1510	1510	1510	2300	2300	2300	2300
	高 height	mm	2230	2230	2260	2260	2450	2370	2370	2450	2750	2800	2850	2900
weight 重量	净重 net weight	Kg	4400	4600	5100	5300	5900	5800	6800	7680	9500	10800	12500	13800
	运行重量 running weight	Kg	5230	5530	6050	6290	6900	7100	8180	8600	10600	12500	14500	16200

1. 制冷量名义工况为冷凝器进水温度 30℃, 出水温度 35℃; 蒸发器进水温度 -5℃, 出水温度 -10℃。
2. 本公司另有风冷系列、蒸发冷系列、

蒸发冷式常温螺杆冷水机

Evaporative cooling normal temperature screw chiller

蒸发冷常温螺杆式冷水机组是公司集数十年设计经验，综合国内外同类产品的先进技术而设计开发的，具有高效节能、环保、高可靠性等特点，多项先进技术的应用，使该产品的综合技术水平达到国际领先水平。

该设备可提供-5℃~35℃的常温载冷剂，适用于有各种常温冷源需求的场所，如医药、化工、冶金、电子、食品等行业的生产工艺过程中，也可作为大型冷库、冰场的冷源主机。

The evaporative cooling constant-temperature screw chiller is a product designed and developed by our company based on decades of design experience and by integrating the advanced technologies of similar products at home and abroad. It features high efficiency, energy conservation, environmental protection and high reliability. The application of multiple advanced technologies has enabled the comprehensive technical level of this product to reach the international leading level.

This equipment can provide a normal temperature heat transfer medium ranging from -5℃ to 35℃, and is suitable for various places with normal temperature cold source requirements, such as in the production processes of the pharmaceutical, chemical, metallurgical, electronic, food and other industries. It can also be used as the main cold source for large cold storage and ice rinks.

产品特点 Features

- ▲ 采用高效的进口优质螺杆式压缩机，如汉钟，比泽尔等；
- ▲ 壳管式蒸发器和冷凝器，高效率，运行稳定；
- ▲ 采用 OMRON、FUJI、TE、LG、ABB、SIEMENS 等品牌配件；
- ▲ 安全保护及故障显示系统完善，维修，保养无需专业人员；
- ▲ RS485 通讯，可实现自动化管理；
- ▲ PLC 控制，可靠性高，抗干扰能力强；
- ▲ 电控柜、管路可防爆设计；可靠的冬季运行模式；

- ▲ Adopt high-efficiency imported high-quality screw compressors, such as Hanbell, Bitzer, etc.
- ▲ Shell and tube evaporator and condenser, high efficiency and stable operation;
- ▲ Accessories of brands such as OMRON, FUJI, TE, LG, ABB and SIEMENS are adopted;
- ▲ The safety protection and fault display system is complete, and no professional personnel are required for maintenance and repair.
- ▲ RS485 communication enables automated management.
- ▲ PLC control, high reliability and strong anti-interference ability;
- ▲ The electrical control cabinet and pipelines can be designed for explosion-proof purposes. Reliable winter operation mode;

According to the particularity of the operation of the evaporative cooling medium-temperature screw chiller, control methods for the start and stop of the evaporative condenser water pump and the frequency conversion of the fan are provided for winter start-up, winter operation and operation in transitional seasons to ensure the safe, reliable and energy-saving operation of the equipment.



蒸发冷常温螺杆冷水机（单机头）产品参数

Evaporative cooling normal temperature screw chiller Single compressor specifications

Parts 项目	Symbol 单位	Model 型号											
		ZFCHC-100S	ZFCHC-140S	ZFCHC-180S	ZFCHC-200S	ZFCHC-230S	ZFCHC-260S	ZFCHC-300S	ZFCHC-310S	ZFCHC-340S	ZFCHC-370S	ZFCHC-410S	ZFCHC-470S
Cooling capacity 制冷量	kw	93.4	129.1	169.4	182.1	226.2	243.5	287	303.2	337.6	363.6	395.4	480.1
	kcal/h*10 ⁴	8.0	11.1	14.6	15.7	19.5	20.9	24.7	26.1	29.0	31.3	34.0	41.3
Power supply 电源		3N/380V/50Hz											
Operation current 运行电流	A	37.2	50.3	66.1	71.4	82.1	88.9	100.9	106.4	116.4	125.4	137.9	165
Input power 输入功率	kW	22.1	29.1	36.4	40.1	48.1	52.5	59.4	68.9	68.9	74.6	82.3	98.5
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机											
	启动方式 Start mode	0-33-66-100% + Y-Δ 33% 载荷 + 星-三角降压启动											
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式											
	水流量 chilled water flow t/h	16.2	22.4	29.4	31.6	39.2	42.2	49.7	52.5	58.5	63.0	68.5	83.2
	水压降 water pressure drop kPa	50-80											
Condenser 冷凝器	型式 type	shell and tube 卧式管壳式											
Refrigerant 制冷剂	名称 type	R22											
Pipe diameter 接管规格	冷凝器 condenser 蒸发器 evaporator 放水阀 drain out water	2-Φ45	2-Φ45	2-Φ45	2-Φ45	2-Φ57	2-Φ57	2-Φ57	2-Φ57	2-Φ76	2-Φ76	2-Φ76	2-Φ89
		2-DN65	2-DN65	2-DN65	2-DN65	2-DN80	2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN125
		1/2"											
size 外形尺寸	长 Length	mm	2320	2550	2950	2950	2980	2980	2980	3080	3080	3080	3080
	宽 width	mm	900	950	950	950	1000	1000	1100	1100	1150	1150	1280
	高 height	mm	1420	1450	1480	1550	1650	1650	1750	1750	1900	1900	1950
weight 重量	净重 net weight	Kg	750	810	1040	1120	1200	1350	1600	1670	1720	1820	2250
	运行重量 running weight	Kg	830	930	1170	1250	1370	1540	1840	1840	1900	2020	2580

Parts 项目	Symbol 单位	Model 型号											
		ZFCHC-510S	ZFCHC-550S	ZFCHC-580S	ZFCHC-620S	ZFCHC-710S	ZFCHC-790S	ZFCHC-830S	ZFCHC-930S	ZFCHC-1020S	ZFCHC-1130S	ZFCHC-1270S	ZFCHC-1530S
Cooling capacity 制冷量	kw	501.8	555	601	624.1	726.9	782.3	851.5	960.7	1083.3	1237.7	1387.4	1609.2
	kcal/h*10 ⁴	43.2	47.7	51.7	53.7	62.5	67.3	73.2	82.6	93.2	106.4	119.3	138.4
Power supply 电源		3N/380V/50Hz											
Operation current 运行电流	A	168.7	189.5	203.1	213.6	240.3	261.5	290.6	326.4	378.1	416.1	459.1	533
Input power 输入功率	kW	100.6	113.4	121.5	126.9	144.3	155.9	170.5	192.4	215.9	239.4	267.3	308.5
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机											
	启动方式 Start mode	0-33-66-100% + Y-Δ 33% 载荷 + 星-三角降压启动											
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式											
	水流量 chilled water flow t/h	87.0	96.2	104.1	108.2	126.0	135.6	147.5	166.5	187.7	214.3	240.4	278.9
	水压降 water pressure drop kPa	50-80											
Condenser 冷凝器	型式 type	shell and tube 卧式管壳式											
Refrigerant 制冷剂	名称 type	R22											
Pipe diameter 接管规格	冷凝器 condenser 蒸发器 evaporator 放水阀 drain out water	2-Φ89	2-Φ89	2-Φ89	2-Φ89	2-Φ108	2-Φ108	2-Φ108	2-Φ108	2-Φ108	2-Φ108	2-Φ133	2-Φ133
		2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200	2-DN200	2-DN200	2-DN200
		1/2"											
size 外形尺寸	长 Length	mm	3300	3300	3300	3300	3750	3750	4200	4200	5000	5350	6000
	宽 width	mm	1300	1300	1400	1400	1400	1450	1450	2200	2200	2300	2300
	高 height	mm	2000	2060	2150	2150	2200	2350	2400	2400	2450	2500	2600
weight 重量	净重 net weight	Kg	2340	2460	2680	2780	3100	3370	3800	3800	4700	5100	6000
	运行重量 running weight	Kg	2700	2840	3060	3200	3520	3950	4440	4440	5450	5900	7000

备注：1、根据有机热载体国家标准，膨胀油缸必须外置架高并高于设备 2、机器功率大于 300KW，要配备双台循环泵，一备一用

蒸发冷常温螺杆冷水机（双机头）产品参数 ►
Evaporative cooling normal temperature screw chiller Double compressor specifications

Parts 项目		Symbol 单位	Model 型 号											
			ZFCHC200D	ZFCHC260D	ZFCHC360D	ZFCHC400D	ZFCHC460D	ZFCHC520D	ZFCHC600D	ZFCHC620D	ZFCHC680D	ZFCHC740D	ZFCHC820D	ZFCHC940D
Cooling capacity 制冷量	kw		186.8	258.2	338.8	364.2	452.4	487	574	606.4	675.2	727.2	790.8	960.2
	kcal/h*10 ⁴		16.1	22.2	29.1	31.3	38.9	41.9	49.04	52.2	58.1	62.5	68.0	82.6
Power supply 电源			3N/380V/50Hz											
Operation current 运行电流		A	74.4	100.6	132.2	142.8	164.2	177.8	201.8	213.6	232.8	250.8	275.8	330
Input power 输入功率		kW	44.2	58.2	72.8	80.2	96.2	105	118.8	126.2	137.8	149.2	164.6	197
Compressor 压缩机	型式 type		semi-hermetic screw 半封闭双螺杆压缩机											
	启动方式 Start mode		0-33-66-100% + Y-Δ 33% 载荷 + 星—三角降压启动											
Evaporator 蒸发器	型式 type		shell and tube 干式管壳式											
	水流量 chilled water flow	t/h	32.4	44.8	58.7	63.1	78.4	84.4	99.5	105.1	117.0	126.0	137.0	166.4
Condenser 冷凝器	水压强 water pressure drop	kPa	50-80											
	型式 type		shell and tube 卧式管壳式											
Refrigerant 冷媒			R22											
Pipe diameter 接管规格	冷凝器 condenser		4-Φ45	4-Φ45	4-Φ45	4-Φ45	4-Φ57	4-Φ57	4-Φ57	4-Φ57	4-Φ76	4-Φ76	4-Φ76	4-Φ89
	蒸发器 evaporator		2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200
size 外形尺寸	排水管 drain out water		1/2"											
	长 length	mm	2600	2700	3200	3000	3430	3430	3450	3450	3950	3950	3950	3950
	宽 width	mm	910	980	1070	1070	1110	1150	1200	1200	1200	1200	1200	1390
weight 重量	高 height	mm	1600	1650	1700	1700	1810	1850	1950	1950	1950	2000	2150	2300
	净重 net weight	Kg	1050	1590	1810	2100	2450	2650	3100	3200	3280	3560	3950	4200
	运行重量 running weight	Kg	1300	1800	2070	2370	2750	2900	3750	3850	3900	4230	4700	5100

Parts 项目		Symbol 单位	Model 型 号											
			ZFCHC1020D	ZFCHC1100D	ZFCHC1160D	ZFCHC1240D	ZFCHC1420D	ZFCHC1580D	ZFCHC1660D	ZFCHC1860D	ZFCHC2040D	ZFCHC2260D	ZFCHC2540D	ZFCHC3060D
Cooling capacity 制冷量		kw	1003.6	1110	1202	1248.2	1453.8	1564.6	1703	1921.4	2166.6	2475.4	2774.8	3218.4
		kcal/h*10 ⁴	86.3	95.5	103.4	107.3	125.0	134.6	146.5	165.2	186.3	212.9	238.6	276.8
Power supply 电源			3N/380V/50Hz											
Operation current 运行电流		A	337.4	379	406.2	427.2	480.6	523	581.2	652.8	756.2	832.2	918.2	1066
Input power 输入功率		kW	201.2	226.8	243	253.8	288.6	311.8	341	384.8	431.8	478.8	534.6	617
Compressor 压缩机	型式 type		semi-hermetic screw 半封闭双螺杆压缩机											
	启动方式 Start mode		0-25-50-75-100% + Y-Δ 25% 载 荷 + 星—三角降压启动											
Evaporator 蒸发器	型式 type		shell and tube 干式管壳式											
	水流量 chilled water flow	t/h	173.9	192.4	208.3	216.3	251.9	271.1	295.1	333.0	375.4	428.6	480.8	557.7
Condenser 冷凝器	水压强 water pressure drop	kPa	50-80											
	型式 type		shell and tube 卧式管壳式											
Refrigerant 冷媒	名称 type		R22											
Pipe diameter 接管规格	冷凝器 condenser		4-Φ89	4-Φ89	4-Φ89	4-Φ89	4-Φ108	4-Φ108	4-Φ108	4-Φ108	4-Φ108	4-Φ108	4-Φ133	4-Φ133
	蒸发器 evaporator		2-DN200	2-DN200	2-DN200	2-DN200	2-DN200	2-DN200	2-DN200	2-DN250	2-DN300	2-DN300	2-DN300	2-DN300
	放水阀 drain out water		1/2"											
size 外形尺寸	长 Length	mm	3950	3950	4100	4100	4560	4700	4700	5250	5350	5350	5500	6000
	宽 width	mm	1390	1390	1390	1390	1400	1480	1480	1480	2300	2300	2300	2300
	高 height	mm	2330	2330	2360	2360	2450	2450	2450	2450	2750	2800	2850	2900
weight 重量	净重 net weight	Kg	4400	4600	5100	5300	5900	6100	6800	7680	9500	10800	12500	13800
	运行重量 running weight	Kg	5230	5530	6050	6290	6900	7100	8180	8600	10600	12500	14500	16200

1. 制冷量名义工况为蒸发器进水温度12℃,出水温度7℃。
2. 本公司另有风冷系列、水冷系列、中温系列和超低温复叠系列螺杆冷水机组产品可供选购,也可按用户要求定制产品,欢迎垂询。
3. 本公司另有R134a,R407C,R507,R404A等制冷剂系列螺杆冷水机组产品可供选购,具体参数请见相关数据表,欢迎垂询。

蒸发冷式中低温螺杆冷水机
Evaporative cooling medium low temperature screw chiller

蒸发冷中低温螺杆式冷水机组是公司集数十年设计经验,综合国内外同类产品的先进技术而设计开发的,具有高效节能、环保、高可靠性等特点,多项先进技术的应用,使该产品的综合技术水平达到国际领先水平。

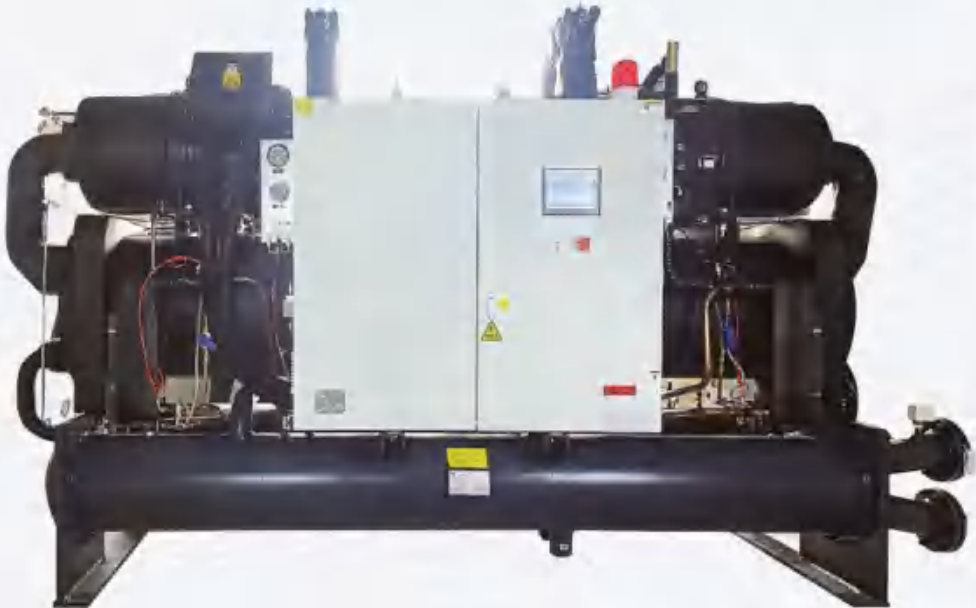
该设备可提供-40℃~0℃的中低温载冷剂,适用于有各种中低温冷源需求的场所,如医药、化工、冶金、电子、食品等行业的生产工艺过程中,也可作为大型冷库、冰场的冷源主机。

The evaporative cooling medium and low-temperature screw chiller is designed and developed by our company based on decades of design experience and by integrating the advanced technologies of similar products at home and abroad. It features high efficiency, energy conservation, environmental protection and high reliability. The application of multiple advanced technologies has enabled the comprehensive technical level of this product to reach the international leading level. This equipment can provide medium and low-temperature heat transfer fluids ranging from -40℃ to 0℃, and is suitable for various places with medium and low-temperature cold source requirements, such as in the production processes of the pharmaceutical, chemical, metallurgical, electronic, food and other industries. It can also be used as the main cold source for large cold storage and ice rinks.

产品特点 Features

- ▲ 采用高效的进口优质螺杆式压缩机,如汉钟,比泽尔等;
- ▲ 壳管式蒸发器和冷凝器,高效率,运行稳定;
- ▲ 采用 OMRON、FUJI、TE、LG、ABB、SIEMENS 等品牌配件;
- ▲ 安全保护及故障显示系统完善,维修,保养无需专业人员;
- ▲ RS485 通讯,可实现自动化管理;
- ▲ PLC 控制,可靠性高,抗干扰能力强;
- ▲ 电控柜、管路可防爆设计;
- ▲ 根据蒸发冷式中温螺杆冷水机组运行的特殊性,对冬季开机、冬季运行及过度季节的运行提供蒸发式冷凝器水泵开停和风机变频的控制方式,确保设备的安全可靠、节能运行。
- ▲ 二次油分离器的使用。
中低温冷水机组在工作过程中,压缩比较大,排气温度较高,轴承承载较大为确保轴承润滑油的正常粘度,需使用高粘度的冷冻油(通常在220~320之间),而此高粘度冷冻油一旦进入蒸发器,蒸发器内部温度在-5℃~-40℃左右,润滑油的粘度变得特别大,会附着在换热管的内表面,形成一层厚厚的油膜,严重影响了换热效果,且易造成压缩机失油。为此,在压缩机排气与冷凝器之间增加一个二次油分,将进入蒸发器的润滑油量减至最低,不但提高了制冷效率,同时也提升了产品运行的可靠性。

- ▲ Adopt high-efficiency imported high-quality screw compressors, such as Hanbell, Bitzer, etc.
- ▲ Shell and tube evaporator and condenser, high efficiency and stable operation;
- ▲ Accessories of brands such as OMRON, FUJI, TE, LG, ABB and SIEMENS are adopted;
- ▲ The safety protection and fault display system is complete, and no professional personnel are required for maintenance and repair.
- ▲ RS485 communication enables automated management.
- ▲ PLC control, high reliability and strong anti-interference ability;
- ▲ The electrical control cabinet and pipelines can be designed for explosion-proof purposes.
According to the particularity of the operation of the evaporative cooling medium-temperature screw chiller, control methods for the start and stop of the evaporative condenser water pump and the frequency conversion of the fan are provided for winter start-up, winter operation and operation in transitional seasons to ensure the safe, reliable and energy-saving operation of the equipment.
- ▲ The use of secondary oil separators.
During the operation of medium and low-temperature water chillers, the compression ratio is relatively large, the exhaust temperature is high, and the bearing load is large. To ensure the normal viscosity of the bearing lubricating oil, high-viscosity refrigeration oil (usually between 220 and 320) needs to be used. Once this high-viscosity refrigeration oil enters the evaporator, the internal temperature of the evaporator is around -5℃ to -40℃. The viscosity of the lubricating oil becomes particularly high, adhering to the inner surface of the heat exchange tubes and forming a thick oil film, which seriously affects the heat exchange effect and is more likely to cause the compressor to lose oil. To this end, a secondary oil separator is added between the compressor exhaust and the condenser to minimize the amount of lubricating oil entering the evaporator. This not only improves the refrigeration efficiency but also enhances the reliability of the product operation.



蒸发冷中低温螺杆冷水机（单机头）产品参数

Evaporative cooling medium low temperature screw chiller single compressor specifications

Parts 项目		Symbol 单位	Model 型 号											
			ZFCHCZ-100S	ZFCHCZ-140S	ZFCHCZ-180S	ZFCHCZ-200S	ZFCHCZ-230S	ZFCHCZ-260S	ZFCHCZ-300S	ZFCHCZ-310S	ZFCHCZ-340S	ZFCHCZ-370S	ZFCHCZ-410S	ZFCHCZ-470S
Cooling capacity 制冷量	kw	53.5	74	97.1	104.3	129.6	139.6	164.4	173.8	193.5	208.4	226.6	275.1	
	kcal/h*10 ⁴	4.6	6.4	8.4	9.0	11.1	12.0	14.1	14.9	16.6	17.9	19.5	23.7	
Power supply 电源		3N/380V/50Hz												
Operation current 运行电流	A	35.2	47.7	63	67.9	77.4	83.8	95	100.6	109.4	118.1	129.9	155.2	
Input power 输入功率	kW	20.8	27.3	34.2	37.6	45	49.2	55.6	59.2	64.4	70	77.2	92.4	
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机												
	启动方式 Start mode	0-33-66-100% + Y→ 33% 载荷 + 星—三角降压启动												
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式												
	水流量 chilled water flow	t/h	11.1	15.3	20.1	21.6	26.8	28.9	34.1	36.0	40.1	43.2	46.9	57.0
Condenser 冷凝器	水压强 water pressure drop	kPa	50-80											
	型式 type	shell and tube 卧式管壳式												
Refrigerant 冷媒	名称 type	R22												
Pipe diameter 接管规格	冷凝器 condenser		2-Φ45	2-Φ45	2-Φ45	2-Φ45	2-Φ57	2-Φ57	2-Φ57	2-Φ57	2-Φ76	2-Φ76	2-Φ76	2-Φ89
	蒸发器 evaporator		2-DN65	2-DN65	2-DN65	2-DN65	2-DN80	2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN200
	放水阀 drain out water		1/2''											
size 外形尺寸	长 Length	mm	2300	2500	2930	2930	2960	2960	3040	3040	3040	3060	3100	3150
	宽 width	mm	910	940	940	940	1010	1010	1080	1080	1180	1180	1180	1240
	高 height	mm	1400	1400	1450	1500	1600	1600	1730	1730	1760	1730	1900	1940
weight 重量	净重 net weight	Kg	700	760	970	1050	1130	1260	1400	1500	1600	1700	1880	2100
	运行重量 running weight	Kg	780	870	1100	1180	1300	1450	1640	1740	1850	1950	2170	2430

Parts 项目		Symbol 单位	Model 型 号											
			ZFCHCZ-510S	ZFCHCZ-550S	ZFCHCZ-580S	ZFCHCZ-620S	ZFCHCZ-710S	ZFCHCZ-790S	ZFCHCZ-830S	ZFCHCZ-930S	ZFCHCZ-1020S	ZFCHCZ-1130S	ZFCHCZ-1270S	ZFCHCZ-1530S
Cooling capacity 制冷量	kw	287.6	318.1	344.4	357.7	416.5	448.3	488	550.5	620.8	708.7	795.1	922.2	
	kcal/h*10 ⁴	24.7	27.4	29.6	30.8	35.8	38.6	42.0	47.3	53.4	60.9	68.4	79.3	
Power supply 电源		3N/380V/50Hz												
Operation current 运行电流	A	158.8	177.7	189.6	201.1	226.2	246.2	273.8	307.8	356.4	391.7	432.6	501.8	
Input power 输入功率	kW	94.3	106.2	113.4	118.9	135.5	146	159.5	180	202.2	224.4	250.2	289	
Compressor 压缩机	型式 type	semi-hermetic screw 半封闭双螺杆压缩机												
	启动方式 Start mode	-25-50--75-100% + Y→ 25% 载荷 + 星—三角降压启动												
Evaporator 蒸发器	型式 type	shell and tube 干式管壳式												
	水流量 chilled water flow	t/h	59.6	65.9	71.4	74.1	86.3	92.9	101.1	114.1	128.7	146.9	164.8	191.1
Condenser 冷凝器	水压强 water pressure drop	kPa	50-80											
	型式 type	shell and tube 卧式管壳式												
Refrigerant 制冷剂	名称 type	R22												
Pipe diameter 接管规格	冷凝器 condenser		2-Φ89	2-Φ89	2-Φ89	2-Φ89	2-Φ108	2-Φ108	2-Φ108	2-Φ108	2-Φ108	2-Φ108	2-Φ133	2-Φ133
	蒸发器 evaporator		2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200	2-DN200
size 外形尺寸	放水阀 drain out water		1/2''											
	长 Length	mm	3290	3330	3350	3350	3900	3900	3950	4240	5000	5350	5500	6000
	宽 width	mm	1240	1240	1300	1370	1370	1370	1370	1420	2200	2200	2300	2300
	高 height	mm	1850	1950	2100	1960	2170	2120	2280	2170	2450	2500	2600	2600
weight 重量	净重 net weight	Kg	2180	2300	2500	2600	2900	3000	3150	3560	4700	5100	5550	6000
	运行重量 running weight	Kg	2540	2680	2880	3000	3300	3520	3730	4200	5450	5900	6450	7000

1. 制冷量名义工况为蒸发器进水温度 -5°C, 出水温度 -10°C。
2. 本公司另有风冷系列、水冷系列、常温系列和超低温复叠系列螺杆冷水机组产品可供选购, 也可按用户要求定制产品, 欢迎垂询
3. 本公司另有 R407C,R507,R404A 等制冷剂系列螺杆冷水机组产品可供选购, 具体参数请见相关数据表, 欢迎垂询。

蒸发冷中低温螺杆冷水机（双机头）产品参数

Evaporative cooling medium low temperature screw chiller Double compressor specifications

Parts 项目		Symbol 单位	Model 型 号											
			ZFCHCZ2000	ZFCHCZ-2280	ZFCHCZ3600	ZFCHCZ4000	ZFCHCZ4600	ZFCHCZ5200	ZFCHCZ6000	ZFCHCZ6300	ZFCHCZ6800	ZFCHCZ7400	ZFCHCZ8200	ZFCHCZ9400
Cooling capacity 制冷量	kw		107	148	194.2	208.6	259.2	279.2	328.8	347.6	387	416.8	453.2	550.2
	kcal/h*10 ⁴		9.2	12.7	16.7	17.9	22.3	24.0	28.3	29.9	33.3	35.8	39.0	47.3
Power supply 电源			3N/380V/50Hz											
Operation current 运行电流	A		70.4	95.4	126	135.8	154.8	167.6	190	201.2	218.8	236.2	259.8	310.4
Input power 输入功率	kW		41.6	54.6	68.4	75.2	90	98.4	111.2	118.4	128.8	140	154.4	184.8
Compressor 压缩机	型式 type		semi-hermetic screw 半封闭双螺杆压缩机											
	启动方式 Start mode		0-33-66-100% + Y-Δ 33% 载荷 + 星—三角降压启动											
Evaporator 蒸发器	型式 type		-25-50--75-100% + Y-Δ 25% 载荷 + 星—三角降压启动											
	水流量 chilled water flow	t/h	22.2	30.7	40.2	43.2	53.7	57.8	68.2	72.0	80.2	86.4	93.9	114.0
Condenser 冷凝器	水压强 water pressure drop	kPa	50-80											
	型式 type		shell and tube 卧式管壳式											
Refrigerant 制冷剂	名称 type		R22											
Pipe diameter 接管规格	冷凝器 condenser		4-Φ45	4-Φ45	4-Φ45	4-Φ45	4-Φ57	4-Φ57	4-Φ57	4-Φ57	4-Φ76	4-Φ76	4-Φ76	4-Φ89
	蒸发器 evaporator 放水阀 drain out water		2-DN80	2-DN100	2-DN100	2-DN100	2-DN125	2-DN125	2-DN150	2-DN150	2-DN150	2-DN150	2-DN150	2-DN200
size 外形尺寸	长 length	mm	2600	2700	3200	3200	3430	3430	3450	3450	3950	3950	3950	3950
	宽 width	mm	910	980	1070	1070	1110	1150	1200	1200	1200	1200	1200	1390
	高 height	mm	1600	1600	1600	1700	1810	1850	1950	1950	1950	2000	2150	2230
	净重 net weight	Kg	1050	1590	1810	2100	2450	2650	3100	3250	3280	3560	3950	4200
weight 重量	运行重量 running weight	Kg	1300	1800	2070	2370	2750	2900	3750	3910	3900	4230	4700	5100

Parts 项目		Symbol 单位	Model 型 号											
			ZFCHCZ10200	ZFCHCZ11000	ZFCHCZ11600	ZFCHCZ12400	ZFCHCZ14200	ZFCHCZ15800	ZFCHCZ16600	ZFCHCZ18600	ZFCHCZ20400	ZFCHCZ22600	ZFCHCZ25400	ZFCHCZ30600
Cooling capacity 制冷量	kw		575.2	636.2	688.8	715.4	833	896.6	976	1101	1241.6	1417.4	1590.2	1844.4
	kcal/h*10 ⁴		49.5	54.7	59.2	61.5	71.6	77.1	83.9	94.7	106.8	121.9	136.8	158.6
Power supply 电源			3N/380V/50Hz											
Operation current 运行电流	A		317.6	355.4	379.2	402.2	452.4	492.4	547.6	615.6	712.8	783.4	865.2	1003.6
Input power 输入功率	kW		188.6	212.4	226.8	237.8	271	292	319	360	404.4	448.8	500.4	578
Compressor 压缩机	型式 type		semi-hermetic screw 半封闭双螺杆压缩机											
	启动方式 Start mode		-25-50~-75-100% + Y-Δ 25% 载荷 + 星-三角降压启动											
Evaporator 蒸发器	型式 type		shell and tube 干式管壳式											
	水流量 chilled water flow	t/h	119.2	131.8	142.7	148.2	172.6	185.8	202.2	228.2	257.3	293.7	329.5	382.2
Condenser 冷凝器	水压强 water pressure drop	kPa	50-80											
	型式 type		shell and tube 卧式管壳式											
Refrigerant 冷媒	名称 type		R22											
Pipe diameter 接管规格	冷凝器 condenser		4-Φ89	4-Φ89	4-Φ89	4-Φ89	4-Φ108	4-Φ108	4-Φ108	4-Φ108	4-Φ108	4-Φ108	4-Φ133	4-Φ133
	蒸发器 evaporator		2-DN200	2-DN200	2-DN200	2-DN250	2-DN200	2-DN200	2-DN200	2-DN250	2-DN300	2-DN300	2-DN300	2-DN300
	底水利 drain out water		1/2" /											
size 外形尺寸	长 Length	mm	3950	3950	4100	4100	4560	5000	5000	5250	5350	5350	5500	6000
	宽 width	mm	1390	1390	1390	1390	1480	1510	1510	1510	2300	2300	2300	2300
	高 height	mm	2230	2230	2260	2260	2450	2370	2370	2450	2750	2800	2850	2900
weight 重量	净重 net weight	Kg	4400	4600	5100	5300	5900	5800	6800	7680	9500	10800	12500	13800
	运行重量 running weight	Kg	5230	5530	6050	6290	6900	7100	8180	8600	10600	12500	14500	16200

降膜式冷水机

Falling film chiller

机组采用高可靠性螺杆压缩机和新型高效换热器，能效比高，大大降低运行成本。根据用户要求，可提供 5℃ 以上冷冻水，具有高效、节能、环保的新一代冷水机组。

The unit adopts high-reliability screw compressors and new high-efficiency heat exchangers, featuring a high energy efficiency ratio and significantly reducing operating costs. According to the user's requirements, we can provide chilled water above 5°C, which is highly efficient. A new generation of energy-saving and environmentally friendly water chillers.

产品特点 Features

- ▲ 独立制冷系统设计
 - ▲ 多机头机组制冷系统相对独立，互不干涉柔性化
 - ▲ 柔性化的能调设计
 - ▲ 根据用户要求，机组可实现 25%-100% 之间连续性能量调节（无级能调），保证压缩机能效的完全发挥并帮助用户最大程度地节约运行费用（双机头机组能调范围 12.5%-100%）
 - ▲ 可靠的油处理系统
 - ▲ 压差供油，无需油泵
 - ▲ 压缩机内置高效油分离器
 - ▲ 独特的蒸发器内浓缩引射回油，保证换热管表面无油膜，降低热阻，提高换热效率
 - ▲ 冷凝器内置卧式高效二次油分离器，保证高效分离
 - ▲ 工业级智能化控制器和先进的计算机控制系统
 - ▲ 多重保护功能
 - ▲ 自动开关机
 - ▲ 多重密码设置
 - ▲ 远程数据采集、运行检查与控制、故障诊断等管理功能（选购）
 - ▲ 整机出厂
 - ▲ 完善可靠的冬季运行模式
 - ▲ 压差式流量开关
- 通过对冷却塔和冷却水泵变频或采用冷却水流量比例调节控制最低冷凝温度，确保设备冬季和过渡季节正常运行。
- ▲ Independent refrigeration system design
 - ▲ The refrigeration system of multi-head units is relatively independent and does not interfere with each other, making it flexible
 - ▲ Flexible adjustable design
 - ▲ According to the user's requirements, the unit can achieve continuous energy regulation between 25% and 100% (stepless energy regulation), ensuring the full utilization of the compressor's energy efficiency and helping users save operating costs to the greatest extent (the energy regulation range of the dual-head unit is 12.5%-100%).
 - ▲ Reliable oil treatment system
 - ▲ Differential pressure oil supply, no oil pump required
 - ▲ The compressor is equipped with a high-efficiency oil separator inside
 - ▲ The unique evaporator is designed to concentrate and draw back the oil, ensuring that there is no oil film on the surface of the heat exchange tubes and reducing the risk
 - ▲ Thermal resistance, enhancing heat exchange efficiency
 - ▲ The condenser is equipped with a horizontal high-efficiency secondary oil separator inside to ensure efficient separation
 - ▲ Industrial-grade intelligent controllers and advanced computer control systems
 - ▲ Multiple protection functions
 - ▲ Automatic on/off
 - ▲ Multiple password Settings
 - ▲ Remote data acquisition, operation inspection and control, fault diagnosis and other management functions (optional)
 - ▲ The whole machine leaves the factory
 - ▲ A perfect and reliable winter operation mode
 - ▲ The minimum condensing temperature is controlled by frequency conversion of the cooling tower and cooling water pump or by adjusting the proportion of cooling water flow to ensure the normal operation of the equipment in winter and transitional seasons.
 - ▲ Differential pressure flow switch

应用行业 Application Industry

钢铁行业、医药行业、电子行业、化工行业、食品行业等行业的工艺用冷源主机。

Steel, Pharmaceutical, Electronics, Chemical industry, food and other industries



降膜式常温单机头螺杆冷水机组产品参数

Falling film chiller single compressor specifications

Parts 项目		单位 Symbol	Model 型号							
			JMHC-130S	JMHC-170S	JMHC-210S	JMHC-245S	JMHC-300S	JMHC-365S	JMHC-425S	JMHC-450S
Cooling capacity 制冷量		kw	135.0	174.0	212.0	245.0	297.0	363.0	425.0	450.0
		kcal/h*10 ⁴	11.6	15.0	18.2	21.1	25.5	31.2	36.6	38.7
Power supply 电源			3N/380V/50Hz							
Operation current 运行电流		A	44.7	56.9	67.3	77.0	88.6	108.4	120.3	131.5
Input power 输入功率		kW	24.5	31.0	37.0	42.0	51.0	63.0	70.0	75.0
COP			5.51	5.61	5.73	5.83	5.82	5.76	6.07	6.00
Compressor 压缩机	型式 type		高效半封闭双螺杆压缩机 Semi-hermetic screw							
	启动方式 Start mode		25% 载荷 + 星三角 0-25-50--75-100% + Y-Δ							
Evaporator 蒸发器	型式 type		高效降膜式蒸发器 High-efficiency falling film evaporator							
	水流量 chilled water flow	t/h	23.3	30.0	36.5	42.2	51.2	62.5	73.2	77.5
	水压降 water pressure drop	kPa	40-70							
Condenser 冷凝器	型式 type		卧式壳管式 Shell and tube							
	水流量 cooling water flow	t/h	27.5	35.3	42.9	49.4	59.9	73.4	85.3	90.4
	水压降 water pressure drop	kPa	40-70							
Refrigerant 冷媒	型式 type		R134a							
	充注量 charging	kg	39	46	58	65	82	99	111	111
Pipe diameter 接管规格	冷凝器 condenser		2-DN80	2-DN80	2-DN100	2-DN100	2-DN125	2-DN125	2-DN150	2-DN150
	蒸发器 evaporator		2-DN80	2-DN80	2-DN100	2-DN100	2-DN125	2-DN125	2-DN150	2-DN150
	排水管 drain out water		1/2"							
size 外形尺寸	长 Length	mm	2950	2980	2980	3080	3080	3300	3300	3300
	宽 width	mm	950	1000	1100	1150	1150	1300	1400	1400
	高 height	mm	1350	1450	1500	1650	1650	1700	1850	1850
weight 重量	净重 net weight	Kg	1120	1200	1600	1720	2010	2340	2680	2780
	运行重量 running weight	Kg	1250	1370	1840	1900	2300	2700	3060	3200

Parts 项目		单位 Symbol	Model 型号						
			JMHC-510S	JMHC-570S	JMHC-610S	JMHC-715S	JMHC-820S	JMHC-900S	JMHC-1040S
Cooling capacity 制冷量		kw	512.0	570.0	610.0	715.0	820.0	900.0	1040.0
		kcal/h*10 ⁴	44.0	49.0	52.5	61.5	70.5	77.4	89.4
Power supply 电源			3N/380V/50Hz						
Operation current 运行电流		A	151.4	166.0	180.2	203.7	243.0	261.4	312.4
Input power 输入功率		kW	87.0	95.0	103.0	117.0	136.0	148.0	169.0
COP			5.89	6.00	5.92	6.11	6.03	6.08	6.15
Compressor 压缩机	型式 type		高效半封闭双螺杆压缩机 Semi-hermetic screw						
	启动方式 Start mode		25% 载荷 + 星三角 0-25-50--75-100% + Y-Δ						
Evaporator 蒸发器	型式 type		高效降膜式蒸发器 High-efficiency falling film evaporator						
	水流量 chilled water flow	t/h	88.2	98.2	105.1	123.2	141.2	155.0	179.1
	水压降 water pressure drop	kPa				40-70			
Condenser 冷凝器	型式 type		卧式壳管式 Shell and tube						
	水流量 cooling water flow	t/h	103.2	114.5	122.8	143.3	164.7	180.5	208.2
	水压降 water pressure drop	kPa				40-70			
Refrigerant 冷媒	型式 type		R134a						
	充注量 charging	kg	133	159	169	181	205	229	254
Pipe diameter 接管规格	冷凝器 condenser		2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200	2-DN200
	蒸发器 evaporator		2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200	2-DN200
	排水阀 drain out water		1/2"						
size 外形尺寸	长 Length	mm	3750	3750	3750	4200	5000	5350	5500
	宽 width	mm	1400	1400	1450	1450	2200	2200	2300
	高 height	mm	1900	1850	2000	2050	2100	2100	2200
weight 重量	净重 net weight	Kg	3100	3200	3370	3800	4700	5100	5550
	运行重量 running weight	Kg	3520	3620	3950	4440	5450	5900	6450

1. 制冷量名义工况为冷凝器进水温度 30℃, 出水温度 35℃; 蒸发器进水温度 12℃, 出水温度 7℃。
2. 本公司另有风冷系列、蒸发冷系列、中温系列和超低温复叠系列螺杆冷水机组产品可供选购，也可按用户要求定制产品，欢迎垂询。

降膜式常温双机头螺杆冷水机组产品参数

Falling film chiller double compressor specifications

Parts 项目		单位 Symbol	Model 型号							
			JMHC-260D	JMHC-340D	JMHC-420D	JMHC-490D	JMHC-600D	JMHC-730D	JMHC-850D	JMHC-900D
Cooling capacity 制冷量		kw	270.0	348.0	424	490	594.0	726.0	850	900
		kcal/h*10 ⁴	23.2	29.9	36.5	42.1	51.1	62.4	73.1	77.4
Power supply 电源			3N/380V/50Hz							
Operation current 运行电流		A	89.4	113.8	134.6	154.0	177.2	216.8	240.6	263.0
Input power 输入功率		kW	49.0	62.0	74.0	84.0	102.0	126.0	140.0	150.0
COP			5.51	5.61	5.73	5.83	5.82	5.76	6.07	6.00
Compressor 压缩机	型式 type		高效半封闭双螺杆压缩机 Semi-hermetic screw							
	启动方式 Start mode		25% 载荷 + 星三角 0-25-50--75-100% + Y-Δ							
Evaporator 蒸发器	型式 type		高效降膜式蒸发器 High-efficiency falling film evaporator							
	水流量 chilled water flow	t/h	46.5	59.9	73.0	84.4	102.3	125.1	146.4	155.0
	水压降 water pressure drop	kPa	40-70							
Condenser 冷凝器	型式 type		卧式壳管式 Shell and tube							
	水流量 cooling water flow	t/h	54.9	70.6	85.8	98.9	119.9	146.8	170.5	180.9
	水压降 water pressure drop	kPa	40-70							
Refrigerant 冷媒	型式 type		R134a							
	充注量 charging	kg	74	87	106	124	159	189	212	225
Pipe diameter 接管规格	冷凝器 condenser		2-DN100	2-DN125	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200
	蒸发器 evaporator		2-DN100	2-DN125	2-DN150	2-DN150	2-DN150	2-DN200	2-DN200	2-DN200
	排水阀 drain out water		1/2"							
size 外形尺寸	长 Length	mm	3000	3430	3450	3950	3950	4100	4100	
	宽 width	mm	1070	1110	1200	1200	1390	1390	1390	
	高 height	mm	1400	1510	1600	1600	1800	1980	2010	2010
weight 重量	净重 net weight	Kg	2100	2450	3100	3280	3950	4400	5100	5300
	运行重量 running weight	Kg	2370	2750	3750	3900	4700	5230	6050	6290

Parts 项目		单位 Symbol	Model 型号						
			JMHC-1020D	JMHC-1140D	JMHC-1220D	JMHC-1430D	JMHC-1640D	JMHC-1800D	JMHC-2080D
Cooling capacity 制冷量		kw	1024.0	1140.0	1220.0	1430.0	1640.0	1800	2080.0
		kcal/h*10 ⁴	88.1	98.0	104.9	123.0	141.0	154.8	178.9
Power supply 电源			3N/380V/50Hz						
Operation current 运行电流		A	302.8	332.0	360.4	407.4	486.0	522.8	624.8
Input power 输入功率		kW	174.0	190.0	206.0	234.0	272.0	296.0	338.0
COP			5.89	6.00	5.92	6.11	6.03	6.08	6.15
Compressor 压缩机	型式 type		高效半封闭双螺杆压缩机 Semi-hermetic screw						
	启动方式 Start mode		25% 载荷 + 星三角 0-25-50--75-100% + Y-Δ						
Evaporator 蒸发器	型式 type		高效降膜式蒸发器 High-efficiency falling film evaporator						
	水流量 chilled water flow	t/h	176.4	196.4	210.1	246.3	282.5	310.0	358.3
	水压降 water pressure drop	kPa	40-70						
Condenser 冷凝器	型式 type		卧式壳管式 Shell and tube						
	水流量 cooling water flow	t/h	206.4	229.1	245.6	286.6	329.3	361.0	416.5
	水压降 water pressure drop	kPa	40-70						
Refrigerant 冷媒	型式 type		R134a						
	充注量 charging	kg	253	304	322	345	391	437	483
Pipe diameter 接管规格	冷凝器 condenser		2-DN200	2-DN200	2-DN250	2-DN250	2-DN300	2-DN300	2-DN300
	蒸发器 evaporator		2-DN200	2-DN200	2-DN250	2-DN250	2-DN300	2-DN300	2-DN300
	排水阀 drain out water		1/2"						
size 外形尺寸	长 Length	mm	4560	4700	4700	5250	5350	5350	5500
	宽 width	mm	1400	1480	1480	1480	2300	2300	2300
	高 height	mm	2050	2050	2050	2050	2300	2350	2400
weight 重量	净重 net weight	Kg	5900	6100	6800	7680	9500	10800	12500
	运行重量 running weight	Kg	6900	7100	8180	8600	10600	12500	14500

1. 制冷量名义工况为冷凝器进水温度 30℃, 出水温度 35℃; 蒸发器进水温度 12℃, 出水温度 7℃

2. 本公司另有风冷系列、蒸发冷系列、中温系列和超低温复叠系列螺杆冷水机组产品可供选, 也可按用户需求定制产品, 欢迎垂询。

复叠式制冷机

Cascade refrigerator

产品特点 Features

- ▲ 宽广的温度使用范围:
最高制冷剂温度 -40℃, 最低制冷剂温度 -90℃, 满足不同温度工艺的要求;
- ▲ 较广的冷量范围:
根据使用温度不同, 单台机组 -40℃ 蒸发温度条件下, 最大制冷量可达 1100kw;
- ▲ 多种制冷剂供选择
从节能角度考虑: 高温级可选用符合目前中国环保要求的 R22 制冷剂, 从满足国际环保要求角度考虑: 高温级可选用符合国际环保要求的 R507 制冷剂。
- ▲ 多种进口品牌压缩机提供选
择根据需求制冷量的大小及实际使用温度, 从节能及节约初投资角度优化配置半封闭活塞压缩机、半封闭活塞双级压缩机、半封闭螺杆压缩机, 主要品牌为 Bitzer, Copeland, Hanbell, Fusheng.
- ▲ 高可靠性
采用半封闭压缩机为主, 不但提高了压缩机自身运行的效率, 同时也避免了开启式压缩机的泄露问题, 降低了制冷剂添加及轴封更换等售后服务费用, 提升了产品长年连续运行的可靠性和操作的方便性。
- ▲ 全自动化控制。
采用西门子工业级 PLC 控制器, 液晶触摸屏进行全自动操作, 具有自动 / 手动控制、参数设定与校准、数据记录、故障报警与记录、累计运行时间记录等功能, 可完全自动化控制, 无须专人管理。

- ▲ Wide temperature operating range
The maximum refrigerant temperature is -40° C and the minimum is -90° C, meeting the requirements of different temperature processes.
- ▲ A wide range of cooling capacity.
Depending on the different operating temperatures, the maximum cooling capacity of a single unit can reach 1100kw under an evaporation temperature of -40°C.
- ▲ A variety of refrigerants are available for selection
From the perspective of energy conservation: R22 refrigerant, which meets the current environmental protection requirements in China, can be selected for the high-temperature stage. From the perspective of meeting international environmental protection requirements: R507 refrigerant, which meets international environmental protection requirements, can be selected for the high-temperature stage.
- ▲ A variety of imported brand compressors are available for selection
Based on the size of the required cooling capacity and the actual operating temperature, optimize the configuration of semi-hermetic piston compressors, semi-hermetic piston two-stage compressors, and semi-hermetic screw compressors from the perspectives of energy conservation and initial investment savings. The main brands are Bitzer, Copeland, Hanbell, Fusheng.
- ▲ High reliability
The semi-hermetic compressor is mainly adopted, which not only improves the operational efficiency of the compressor itself, but also avoids the leakage problem of open compressors, reduces the after-sales service costs such as refrigerant addition and shaft seal replacement, and enhances the reliability of long-term continuous operation and the convenience of operation of the product.
- ▲ Fully automated control.
It adopts Siemens industrial-grade PLC controller and LCD touch screen for fully automatic operation. It features automatic/manual control, parameter setting and calibration, data recording, fault alarm and recording, cumulative operation time recording and other functions. It can be fully automated and does not require dedicated management.



FDCHC--W/FDCHC--U 系列低温级螺杆式复叠机产品参数
Product parameters of DCHC-W/FDCHC-U Series Low-temperature screw laminating machines

项目 Item		单位 Unit	FDCHC6SW	FDCHC89W	FDCHC127W	FDCHC170W	FDCHC210W	FDCHC250W	FDCHC330W	FDCHC380W	FDCHC500W	FDCHC550W	FDCHC660W
			FDCHC6SU	FDCHC89U	FDCHC127U	FDCHC170U	FDCHC210U	FDCHC250U	FDCHC330U	FDCHC380U	FDCHC500U	FDCHC550U	FDCHC660U
电源 Power source			3N/380V/50Hz										
名义制冷量 Nominal Refrigerating capacity		kW	65.2	88.9	127	170	211.6	250.6	328.4	379.6	497.2	546	657
适用温度范围 Suitable temperature range			FDCUL 蒸发温度 -40°C~-90°C/FDCWL 出液温度 -35°C~-85°C FDCULVaporizationtemperature-40°C~-90°C/ FDCWLLiquid-outgoingtemperature-35°C~-85°C										
低 级 组 Low-temperature	压缩机 Compressor		半封闭螺杆压缩机 Semi-hermeticscrewcompressor										
	名义耗功 Nominal power		kW	28.3	37.2	51.2	67.9	80.4	96.5	124.7	142.6	182.5	241.8
	最大运行电流 Max Running current		A	69	91	128	171	203	241	310	355	453	620
	制冷剂 Refrigerant			R23									
	蒸发器 (CWL 产品) Evaporator	形式 Model		不锈钢板式换热器 Stainlesssteelplatetype heat exchanger									
		载冷剂 Secondary rfrigerant		乙醇溶液 Glycolwater									
		流量 Flow	m³/h	26.9	36.7	52.3	70	88	104	136	157	205	271
		压降 The drop of water pressure	kPa	95~100									
	冷凝器 Condenser		形式 Model	不锈钢板式换热器 Stainlesssteelplatetype heat exchanger									
高 级 组 High-temperature	形式 Model			半封闭螺杆压缩机 Semi-hermeticscrewcompressor									
	名义耗功 Nominalpower		kW	36.7/45.6	49.0/59.7	63.2/80.3	84.4/105	104/131	125/163	159/206	169.1/219.6	207/262.4	224.4/291.8
	最大运行电流 Max Runningcurrent		A	121	153	203	268	336	393	498	534	2*336	2*355
	制冷剂 Refrigerant			R22/R507									
	蒸发器 Evaporator			低温级冷凝器 LowtemperaturelevelCondenser									
	冷凝器 Condenser	形式 Model	m³/h	卧式壳管式 Horizontal type shell and tube type									
		流量 Flow	kPa	24.5	32.5	45	60	73	88	114	142	180	203
		压降 The drop of waterpressure		70~80									
接管规格 Connector specification	蒸发器 (CWL) Evaporator			2-DN80	2-DN80	2-DN100	2-DN100	2-DN125	2-DN125	2-DN150	2-DN150	2-DN200	2-DN200
	冷凝器 Condenser			2-DN80	2-DN80	2-DN100	2-DN100	2-DN125	2-DN125	2-DN150	4-DN100	4-DN125	4-DN125
外形尺寸 Outline size	长 Length		mm	3300	3300	3300	3300	3600	4200	4600	4600	5350	5350
	宽 width		mm	2000	2000	2000	2000	2000	2200	2200	2200	2850	2850
	高 Height		mm	2500	2500	2500	2500	2500	2600	2600	2600	2900	2900
参考重量 Weight		kg	2100	2550	3300	4100	4300	4500	5500	5900	9800	10300	11500

1、名义工况：冷却水进回水温度 30°C/35°C.FDCHC--W 机组载冷剂进出温度 -45°C/-50°C.FDCHC--U 机组制冷剂蒸发温度 -55°C；
2、考虑到运行的过渡工况，建议冷却水流量至少加大 30%；
3、可调整标准型产品运行工况（低温级冷凝温度）和高温级压缩机配置以满足用户不同的负荷需求。

合作伙伴 | PARTNER

