

环保型水冷式/风冷式冷水机

ECO-FRIENDLY WATER/AIR COOLED CHILLER

工业冷水机广泛用于塑胶, 新能源电池, 电子制造, 电镀, 医药, 化工, 超声波冷却, 印刷等工业生产。它能精确控制现代工业机械化生产所要求的温度, 从而大大的提高了生产效率及产品质量。操作简便, 设计合理、品质卓越、其规格有上百种, 是现代化工业生产不可缺少的良伴。工业冷水机应用于塑料加工机械成型模具冷却, 能够大大提高塑料制品表面光洁度, 减少塑料制品表面纹痕和内应力, 使产品不缩水、变形, 便于塑料制品的脱模、加速产品定型、从而极大地提高塑料成型机的生产效率。

Industrial chillers are widely used in plastics, new energy batteries, electronics manufacturing, electroplating, pharmaceutical and chemical, ultrasonic cooling, printing and other industrial productions. It can precisely control the temperature required for modern industrial manufacturing and largely improve efficiency and product quality. It is the best choice for modern industries with simple operation, reasonable design and superior quality and over one hundred different models. It is to provide a cooling process in plastic molding, to improve quality of molded products and shorten period of injection molding cycles. Hence maximizes productivity of plastic molding manufacturing.

特点:

- ◎制冷剂采用R410a环保型冷媒, 制冷效果好;
- ◎采用世界知名品牌压缩机和高效壳管式/翅片式冷凝器、壳管式蒸发器组合、超强制冷、宁静省电;
- ◎液晶显示微电脑控制器, 同时显示冷水出口和设备设定温度, 操作简便, 能精确控制水温 3°C到50°C以内;
- ◎具有电流过载保护、高低压压力保护系统及电子时间延迟等完善的安全保护装置、异常直观显示系统;
- ◎有单压缩机、双压缩机、三压缩机、四压缩机组合, 独立系统, 能源效率高;
- ◎电器部分均为国际知名品牌电器, 保证机器运行稳定;
- ◎采用#304不锈钢保温水箱及保温管道系统, 使用寿命长, 保障水质纯净, 清洗维护方便;
- ◎选配通讯功能, 实现自动化远程管理。

FEATURE:

- ◎Default Refrigerant as Environmental R410a with high cooling efficiency;
- ◎With the combination of famous brand compressors, high-efficiency shell and tube condensers/finned condensers, and shell and tube evaporators, providing excellent cooling, quiet operation, and low electricity consumption;
- ◎Microcomputer LCD chiller controller, simultaneously displays the cold water outlet and the set temperature, easy to operate with accuracy of controlling water temperature within 3°C to 50°C;
- ◎Current overload protection, high and low pressure protection system and electronic time delay, and an abnormal visual display system;
- ◎Optional for compressor combinations as single, dual, triple, and quadruple solutions, with an independent system for high energy efficiency. The electrical parts are all international famous brand electrical appliances, to ensure stable operation of the machine;
- ◎Adopt #304 stainless steel insulation tank and insulation piping system, long service life, to protect the water quality pure, easy to clean and maintain;
- ◎Optional for communication function to realize automatic remote management.

技术参数 SPECIFICATIONS

型号Model		Unit	XC-LF2A	XC-LF3A	XC-L5W	XC-L10W	XC-L15W	XC-L20W	XC-L25W	XC-L30W	XC-L40W	XC-L50W	XC-L60W
					XC-LF5A	XC-LF10A	XC-LF15A	XC-LF20A	XC-LF25A	XC-LF30A	XC-LF40A	XC-LF50A	XC-LF60A
水冷制冷量/Cooling capacity(water)	Kw	6.25	10.5	16	32.1	51.7	66.3	81.2	108	131	162.4	191.9	
	Kcal/h	5375	9030	13760	27606	44462	57018	69832	92880	112660	139664	165034	
风冷制冷量/Cooling capacity(air)	Kw	6.2	8.6	14.9	29.3	46.5	62	74.1	92.7	122.3	147.3	176.8	
	Kcal/h	5332	7396	12814	25284	39990	53320	63726	79722	105178	126678	152048	
压缩机 Compressor	输入功率/Input Power	Kw	1.77	2.8	3.7	7.5	11.25	15	18.8	22.5	30	37.6	44
	额定功率/Rated Power	Hp	2	3	5	10	15	20	25	30	40	50	60
电源Power		1PH-220V/50HZ	3PH-380V/50HZ(200V/220V/415V 50HZ/60HZ)										
蒸发器 Evaporator	类型/Type	水箱盘管式Water tank with copper coil	壳管式 Shell And Tube										
	水管口径/Pipe Diameter	inch	1"	1"	2"	2.5"	2.5"	3"	3"	4"	4"	4"	4"
冷冻媒体 Refrigerant	类型/Type		R410a										
	水冷填充量 Water Cooled Quantity	KG	-	-	1.75	3.5	5.25	7	8.75	10.5	14	17.5	21
	风冷填充量 Air Cooled Quantity	KG	1	1.5	2.5	5	7.5	10	12.5	15	20	25	30
水冷冷凝器 Water cooled condenser	类型/Type	壳管式冷凝器 (Shell and Tube Condenser)											
	水管口径/Pipe Diameter	inch	3/4	1"	1"	1.5"	2"	2"	2.5"	2.5"	3"	3"	3"
冷却水量/Cooling Water Flow		M³/h	0.908	1.36	2.22	4.42	7.1	8.84	10.06	13.6	17.75	21.9	25
风冷冷凝器 Air cooled condenser	类型/Type	高效紫铜管套铝翅片式+低噪音外转子风机 Finned Copper Tube + Low Noise Outer Rotor Fan											
	风机功率/Fan Power	W	135×1	190×1	190×2	420×2	800×2	420×3	800×3	850×3	1100*3	1400*3	1100*4
水箱容量/Water Tank Capacity		Liter	25	40	45	80	100	150	210	210	380	400	500
水泵Pump	功率/Power	KW	0.37	0.37	0.75	1.5	2.2	2.2	3	3	3	3	4
	HP		0.5	0.5	1	2	3	3	4	4	4	4	5.5
	扬程Distance	m	15	15	25	17	19	19	16	16	16	16	18
流量/Flow Rate		L/min	80	80	110	300	700	700	800	800	800	800	800
安全保护 Safety Protection		压缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 High And Low Pressure Protection, Overload Protection, Over Temperature Protection, Phase Sequence Protection, etc.											
外形尺寸 Dimensions(L*W*H)	水冷/Water Cooled	mm	845*605*1130	1150*680*990	1320*690*1380	1570*750*1380	1930*880*1650	2100*1000*1730	2240*1150*1840	2350*1250*2000			
	风冷/Air Cooled	mm	850*605*1110	1010*670*1130	1350*720*1310	1600*900*1550	1950*1040*1655	2250*1050*1855	2660*1150*1970	3060*1350*2100	3360*1500*2300	4100*1600*2210	
运行重量 Operating weight	水冷/Water Cooled	KG	—	130	150	350	730	800	900	1150	1200	1250	1500
	风冷/Air Cooled	KG	73	100	175	450	750	835	920	1080	1125	1380	1670

备注: 1. 制冷量是依据: 冷冻水进出水温度15°C/10°C, 冷却水进出水温度30°C/35°C。
2. 工作范围: 冷冻水温度范围: 5°C至50°C; 冷冻水进出水温差: 3°C至8°C。
冷却水温度范围: 18°C至37°C; 冷却水进出水温差: 3.5°C至10°C。

Note: 1.Cooling Capacity is calculated based on : inlet/outlet chilled fluid temperature:15°C/10°C,inlet/outlet cooling water temperature :30°C/35°C.
2. Working condition:Chilled fluid temperature : from 5°C to 50°C. Inlet/outlet chilled fluid Temperature difference: from 3°C to 8°C.
Cooling water temperature: from 18°C to 37°C,inlet/outlet cooling water Temperature difference: from 3.5°C to 10°C.

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01 XIECHENG

环保冷热两用控温机

ECO-FRIENDLY COLD AND HOT TEMPERATURE CONTROLLER

携成冷热两用控温机可根据生产所需提供冷却循环水或提供热水, 同一组水路升、降温采用两套独立系统, 一键操作, 设定所需温度, 微电脑控制器根据实际工况自动选择升温或者降温, 将温度恒定在设定温度±2°C之间;

Xiecheng hot and cold temperature controller can provide cooling circulating water or hot water according to production needs. The same group of water circuits use two independent systems for heating and cooling. One-button operation sets the required temperature. The microcomputer controller automatically selects heating or cooling according to the actual working conditions, and keeps the temperature constant between the set temperature ±2°C;

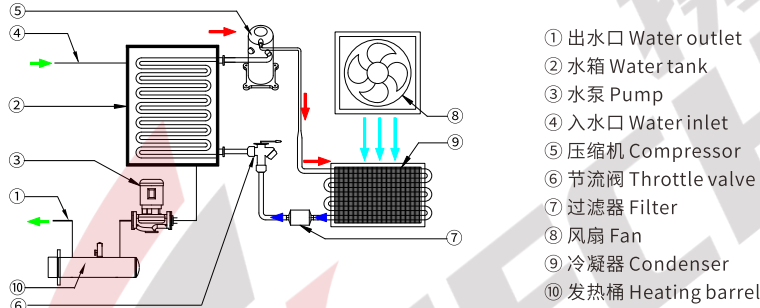
特点:

- ◎制冷剂采用R410a环保型冷媒, 制冷效果好;
- ◎采用世界知名品牌压缩机, 高效节能;
- ◎加热系统采用电加热, 加热速度快;
- ◎电气部分均选用国际知名品牌电器;
- ◎具有电流过载保护、高低压压力保护系统、超温保护及电子时间延迟等完善的安全保护装置、异常直观显示系统;
- ◎选配通讯功能, 实现自动化远程管理。

FEATURE:

- ◎The refrigerant uses R410a environmentally friendly refrigerant with good cooling effect;
- ◎It uses world-renowned brand compressors, which are efficient and energy-saving;
- ◎The heating system uses electric heating, which has a fast heating speed;
- ◎The electrical parts are all made of internationally renowned brand electrical appliances;
- ◎It has complete safety protection devices such as current overload protection, high and low pressure protection system, over-temperature protection and electronic time delay, and an abnormal intuitive display system;
- ◎Optional communication function to achieve automatic remote management.

工作原理 WORKING PRINCIPLE



- ① 出水口 Water outlet
- ② 水箱 Water tank
- ③ 水泵 Pump
- ④ 入水口 Water inlet
- ⑤ 压缩机 Compressor
- ⑥ 节流阀 Throttle valve
- ⑦ 过滤器 Filter
- ⑧ 风扇 Fan
- ⑨ 冷凝器 Condenser
- ⑩ 发热桶 Heating barrel

技术参数 SPECIFICATIONS

型号/Model		Unit	XC-LF5AH	XC-LF10AH	XC-LF15AH	XC-LF20AH	XC-LF25AH	XC-LF30AH
			XC-L5WH	XC-L10WH	XC-L15WH	XC-L20WH	XC-L25WH	XC-L30WH
风冷制冷量/Cooling capacity	Kw	14.9	29.4	46.5	62	74.1	92.7	
	Kcal/h	12814	25284	39990	53320	63726	79722	
水冷制冷量/Cooling capacity	Kw	16	32.1	51.7	66.3	81.2	108	
	Kcal/h	13760	27606	44462	57018	69832	92880	
压缩机 Compressor	输入功率/Input Power	Kw	3.7	7.5	11.25	15	18.8	22.5
	额定功率/Rated Power	Hp	5	10	15	20	25	30
电源Power		3PH-380V/50HZ(200V/220V/415V 50HZ/60HZ)						
蒸发器 Evaporator	类型/Type	盘管式蒸发器 Coil evaporator						
	水管口径/Pipe Diameter	inch	1"	2"	2"	2.5"	3"	3"
冷冻媒体 Refrigerant	类型/Type	R410a						
	控制方式Control Method	(毛细管) 外平衡式热力膨胀阀 (capillary) expansion valve						
水冷冷凝器 Water cooled condenser	类型/Type	壳管式冷凝器/Shell condenser						
	水管口径/Pipe diameter	inch	1"	1.5"	2"	2"	2.5"	2.5"
冷却水量/Cooling Water Flow		m³/h	0.908	2.22	3.95	4.42	7.1	8.84
风冷冷凝器 Condenser	类型/Type	高效紫铜管套铝翅片式+低噪音外转子风机 Finned Copper Tube + Low Noise Outer Rotor Fan						
	风机功率/Fan Power	Inch	190×2	420×2	800×2	420×3	800×3	850×3
水箱容量/Water Tank Capacity		Liter	45	80	100	150	210	210
水泵Pump	功率/Power	Kw	0.75	1.5	2.2	2.2	4	4
	HP		1	2	3	3	5	5
	扬程/Distance	m	25	17	19	19	16	16
	流量/Flow Rate	L/min	110	360	650	650	700	700
加热装置Heating Device		功率/Power	kw	9	12	18	24	36
安全保护 Safety Protection		压缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 Compressor overheating protection, overcurrent protection, high and low pressure protection, overtemperature protection, flow protection, phase sequence/phase loss protection, exhaust overheating protection, antifreeze protection						
外形尺寸 Dimensions(L*W*H)	水冷/Water cooled	mm	1150*680*990	1320*690*1380	1570*750*1380	1930*880*1650	2100*1000*1730	
	风冷/Air cooled	mm	1350*720*1310	1600*900*1550	1950*1040*1655	2250*1050*1855	2660*1150*1970	

备注: 1. 制冷量是依据: 冷冻水进出水温度12°C/7°C, 冷却进出风温度30°C/40°C。
2. 工作范围: 循环水温度范围: 5°C至80°C; 进出水温差3°C至8°C。
在环境温度不高于35°C环境下使用。

Note: 1.Nominal cooling capacity calculated according to :inlet/outlet chilled fluid temperature: 12°C/7°C, inlet/outlet cooling air temperature: 30°C/40°C.
2.Working condition:The temperature range circulating water is from 5°C to 80°C. Temperature difference between inlet and outlet chilled fluid is from 3°C to 8°C.
It is better to run the chiller while the ambient temperature at or below 35°C.

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自然冷却环保风冷冷水机

ECO-FRIENDLY FREE COOLING AIR COOLED CHILLER

自然冷却风冷冷水机组是一种高效节能的制冷设备,该系列产品集成自然冷却功能,提供标准制冷、混合制冷和自然冷却三种智能运行模式,能够根据环境温度和负荷需求自动切换运行模式,充分利用过渡季节或低温季节室外免费空气冷源,减少压缩机机械制冷的运行时间,大大降低能源消耗,机组全年运行能效比EER可达12.0以上。适用于需要全年运行的工业制冷应用。

The Free Cooling Air-Cooled Chiller is a highly energy-efficient refrigeration device. This series integrates free cooling technology and offers three intelligent operation modes: mechanical cooling, mixed cooling, and free cooling. It automatically switches modes based on ambient temperature and load demand, maximizing the use of free outdoor cold air during transitional seasons or low-temperature periods to reduce compressor runtime, thereby significantly lowering energy consumption. The unit achieves an annual Energy Efficiency Ratio (EER) exceeding 12.0, making it ideal for industrial cooling applications requiring year-round operation.

特点：

- ◎制冷剂采用R410a环保型冷媒,制冷效果好；
- ◎采用自然冷却换热器,在自然冷却模式下,利用外界冷空气降低冷却水温；
- ◎配备智能控制系统,能够实时监测环境温度、机组运行状态、负荷需求,并自动切换运行模式,可全年最大限度地提高效率；
- ◎采用世界知名品牌压缩机和翅片式冷凝器、壳管式蒸发器组合、超强制冷、宁静省电;
- ◎液晶显示微电脑控制器,同时显示冷水出口和设备设定温度,操作简便,能精确控制水温 3°C到50°C以内；
- ◎具有电流过载保护、高低压压力保护系统及电子时间延迟等完善的安全保护装置、异常直观显示系统;
- ◎有双压缩机、三压缩机、四压缩机组合,独立系统,能源效率高;
- ◎选配通讯功能,实现自动化远程管理。

技术参数 SPECIFICATIONS

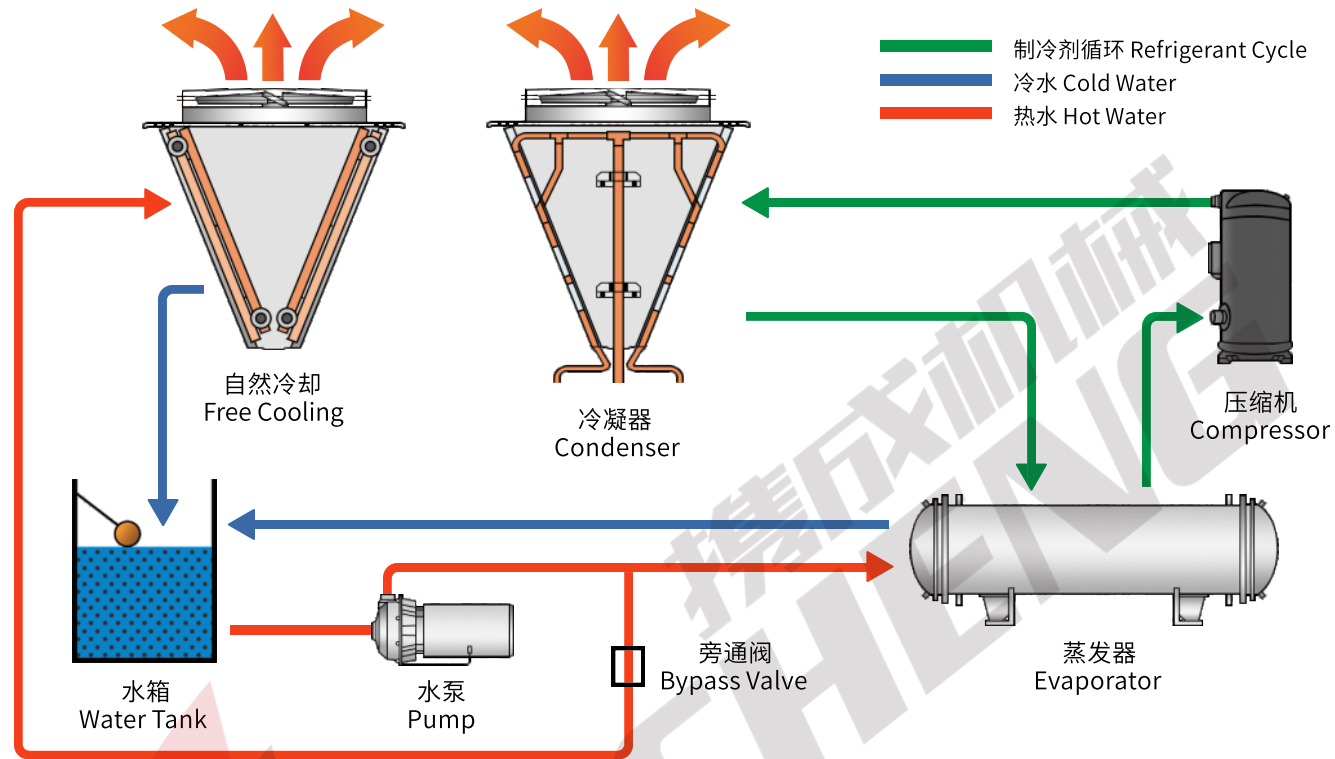
型号/Model		Unit	XC-LF10AFC	XC-LF20AFC	XC-LF30AFC	XC-LF40AFC	XC-LF50AFC	XC-LF60AFC	
风冷制冷量 Cooling capacity		kw	29.3	62	92.7	122.3	147.3	176.8	
		Kcal/h	25284	53320	79722	105178	126678	152048	
压缩机 Compressor	输入功率 Input power	kw	9	15	22.5	30	37.6	44	
	额定功率 Rated power	Hp	10	20	30	40	50	60	
电源power		3PH-380V/50HZ(200V/220V/415V 50HZ/60HZ)							
蒸发器 Evaporator	类型 Type	壳管式 Shell and tube							
	水管口径 Pipe diameter	Inch	1.5"	2"	2.5"	3"			
冷冻媒体 Refrigerant	类型 Type	R410a							
	填充量 Quantity	Kg	6	12	18	24	30	36	
风冷冷凝器 Air cooled condenser	类型 Type	高效紫铜管套铝翅片式+低噪音外转子风机 Finned copper tube +low noise outer rotor fan							
	风机功率 Fan power	W	420×3	1100×2	1400×2	1400×2			
水箱容量 Water tank capacity		Liter	210	380	500				
水泵 Pump	功率 Power	Kw	3	4	5.5	7.5			
		Hp	4	5.5	7.5	10			
	扬程 Distance	m	30						
	流量 Flow rate	L/min	300	416	700	833			
安全保护 Safety protection		压缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 High and low pressure protection, overload protection, overtemperature protection, phase sequence protection, etc.							
外形尺寸Dimensions(L*W*H)	风冷 Air cooled	mm	2180*1040*1850	2200*1250*1980	2600*1250*2200	3000*1500*2200	3200*1600*2200	3500*1700*2200	
运行重量Weight		Kg	450	835	1080	1125	1380	1670	

备注:1.制冷量是依据:冷冻水进出水温度15°C/10°C、冷却水进出水温度30°C/35°C。 2.工作范围:冷冻水温度范围:5°C至50°C;冷冻水进出水温差:3°C至8°C。冷却水温度范围:18°C至37°C;冷却水进出水温差:3.5°C至10°C。

Note: 1. Cooling Capacity is calculated based on : inlet/outlet chilled fluid temperature:15°C/10°C,inlet/outlet cooling water temperature: 30°C/35°C. 2. Working condition:Chilled fluid temperature : from 5°C to 50°C. Inlet/outlet chilled fluid Temperature difference: from 3°C to 8°C. Cooling water temperature: from 18°C to 37°C,inlet/outlet cooling water Temperature difference: from 3.5°C to 10°C.

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原理示意图 WORKING PRINCIPLE DIAGRAM



工作原理

自然冷却风冷冷水机组结合了标准制冷、混合制冷和自然冷却三种模式,根据环境温度和负荷需求自动切换。

标准制冷模式：

当环境温度较高或负荷较大时,机组通过压缩机和冷媒系统进行机械制冷。冷媒在蒸发器中吸收热量,热量通过风冷冷凝器排放到外界空气中,冷却水流通过蒸发器后流向负载设备,带走热量。

混合制冷模式：

当环境温度介于设定温度和自然冷却温度之间(低于设定温度5-10°C之间),机组通过压缩机和冷媒系统进行机械制冷,同时旁通阀打开,自然冷却系统启动,双冷却系统同时运行制冷。

自然冷却模式：

当环境温度低于一定阈值(低于设定温度10°C以下)时,机组关闭压缩机,旁通阀打开,直接通过外部低温空气进行换热冷却,达到冷却效果。

WORKING PRINCIPLE

The free cooling air-cooled chiller combines three modes: standard cooling, mixed cooling, and free cooling. It automatically switches between these modes based on ambient temperature and load demand.

Standard Cooling Mode:

When the ambient temperature is high or the load is large, the unit performs mechanical cooling through the compressor and refrigerant system. The refrigerant absorbs heat in the evaporator, and the heat is dissipated into the outside air through the air-cooled condenser. The cooled water flows through the evaporator and then to the load equipment, carrying away the heat.

Mixed Cooling Mode:

When the ambient temperature is between the set temperature and the free cooling temperature (5-10°C lower than the set temperature), the unit performs mechanical cooling through the compressor and refrigerant system. At the same time, the bypass valve opens, and the natural cooling system starts. Both cooling systems operate simultaneously for cooling.

Free Cooling Mode:

When the ambient temperature is below a certain threshold (more than 10°C lower than the set temperature), the unit shuts down the compressor, the bypass valve opens, and it directly uses the outside low-temperature air for heat exchange cooling to achieve the cooling effect.

环保风冷式冷风机

ECO-FRIENDLY INDUSTRIAL AIR-COOLING CHAMBER

工业冷风机为吹膜挤出机或其他工业生产过程中提供冷风，与传统的冷水机组加换热器系统相比，借助于制冷剂的直接膨胀来冷却空气可以提高能效。

Industrial air cooling chamber is used for supplying cooled air for blown filming extrusion or other industrial productions. Compared with the traditional chiller adding heat exchanger system, cooling the air by direct expansion of refrigerant could save more energy.

特点：

- ◎制冷剂采用R410a环保型冷媒，制冷效果好；
- ◎全新知名品牌压缩机和高效翅片式冷凝器、蒸发器组合、超强制冷、宁静省电；
- ◎微电脑全功能控制，液晶显示冷风出口温度和设定温度，操作简便、直观，能精确控制出风温度5℃至30℃之间；
- ◎入风口设计过滤网装置，方便维护清理；
- ◎配备自动除霜功能，有效降低能耗；
- ◎具有电流过载保护、高低压力保护系统及电子时间延迟等完善的安全保护装置、异常直观显示系统；
- ◎选配通讯功能，实现自动化远程管理。

FEATURE:

- ◎The refrigerant uses R410a environmentally friendly refrigerant with good refrigeration effect;
- ◎First hand well-known brand compressor, high-efficiency finned condenser and evaporator combination, strong cooling capacity, quiet and power saving;
- ◎Microcomputer full-function control, LCD display with present and set temperatures of the cool air, intuitive and easy to operate, accurately controlling the outlet air from 5 ~30°C;
- ◎Air inlet designed with filter device, convenient for maintenance and cleaning;
- ◎Equipped with automatic defrost function, effectively reducing energy consumption;
- ◎With sufficient safety devices including current overload protection, high and low pressure protector system, electronic time delay, and also visual system on failure display.
- ◎Optional for communication function for remote automation management.

XC-LF5AF

技术参数 SPECIFICATIONS

型号Model		XC-LF5AF	XC-LF10AF	XC-LF15AF	XC-LF20AF	XC-LF25AF	XC-LF30AF
马力Motor	Unit	5	10	15	20	25	30
制冷量 Cooling Capacity	Kcal/h	12900	26660	38700	52460	58480	79120
	Kw	15	31	45	61	68	92
出风温控°C Temperature Of Air Outlet Control		8-15°C					
电源 Input Power		380V 50HZ 3PH					
压缩机功率Compressor Power	Kw	3.7	7.5	11.25	15	18.8	22.5
冷媒 Refrigerant		R410a					
冷凝器Condenser	类型Type	风冷式air cooled type(加厚波纹开窗式铝翅片套紫铜管)(Thick corrugated window-type aluminum fins covered with copper tubes)					
风量 Air Flow	选配 Optional	m³/hr	2100	3000	4800	6000	6000
风机功率 Fan Power		Kw	2.2	3.75	11	11	15
风管管径 Air Connection Pipe Diameter	英寸Inch	10"	10"	12"	12"	12"	12"
蒸发器 Evaporator	类型Type	紫铜外套波纹开窗式铝箔翅片，出风温度更低Copper tube jacket corrugated open window aluminum foilfin radiator, outlet temperature will be lower					
外型尺寸 Dimension	长D mm	1350	1600	2250	2660		
	宽W mm	770	950	1100	1210		
	高H mm	1310	1550	1855	1970		
保护控制装置 Protection Control Device		延时保护、防冻保护、冷媒高低保护、过流保护、相序/缺相保护、过载保护 Delay protection, antifreeze protection, refrigerant high and low protection, overcurrent protection, phase sequence/phase loss protection, overload protection					
备注:风机为选配件，10HP以上冷风风机外置。Remark: Blower is optional part ,over 10HP model ,external blower							

备注: 1.名义制冷量基于蒸发温度15℃，相对湿度40%下环境气温40℃
2.冷风机要求冷凝器侧吸入洁净空气及顶部排放热空气。

Note: 1.Nominal cooling capacity is based on evaporating temperature 15°C and ambient air temperature 40°C with 40% R.H.
2.Air cooled air chiller require fresh air suction on condenser side and hot air exhaust from the top of the ACA chiller

产品规格若有改变，恕不另行通知。We reserve the right to change specifications without prior notice.

涡旋式环保风冷热泵机组

ECO-FRIENDLY SCROLL TYPE AIR COOLED HEAT PUMP UNIT

涡旋式风冷热泵机组采用高效全封闭涡旋压缩机，高效壳管式换热器和盘管式换热器，使用R134a、R22制冷剂。能效等级可达2级，热水出水温度可达75℃以上，制热量范围25kw~666kw。广泛应用于各类中小型工商业场所及农业种植养殖和工业生产所需热水。

The scroll-type air-cooled heat pump unit adopts a high-efficiency fully enclosed scroll compressor, a high-efficiency shell-and-tube heat exchanger, and a coil heat exchanger, using R134a、R22 refrigerants. The energy efficiency rating can reach Grade II, with hot water outlet temperatures higher than 75°C. The heating capacity ranges from 25kW to 666kW, widely covering applications in various small and medium-sized commercial and industrial sites that require hot water for industrial production.

特点：

- ◎涡旋式风冷热泵机组采用世界知名全封闭涡旋压缩机，运行稳定，噪音低，经久耐用；
- ◎采用自主研发的高效壳管换热器，整机能效达到Ⅱ级。
- ◎流量装置采用知名品牌热力膨胀阀；
- ◎涡旋式风冷热泵机组可选微电脑控制、PLC控制；可扩展网络功能，提供远程监控及售后服务；
- ◎采用外转子风扇，运转平稳，噪音低，效率高。

FEATURE:

- ◎The scroll-type air-cooled heat pump unit uses a world-renowned fully enclosed scroll compressor, ensuring stable operation, low noise, and durability;
- ◎With independently developed high-efficiency shell and tube heat exchanger, the whole unit reaches Grade II Energy Efficiency Rating;
- ◎The flow device uses a well-known brand thermal expansion valve;
- ◎The scroll-type air-cooled heat pump unit can be controlled via microcomputer or PLC control, with optional network capabilities for remote monitoring and after-sales service;
- ◎It uses an external rotor fan for smooth operation, low noise, and high efficiency.

技术参数 SPECIFICATIONS

型号Model		XC-HPU20	XC-HPU25	XC-HPU30	XC-HPU40	XC-HPU50	XC-HPU60	XC-HPU80	XC-HPU100
风冷制热量 Heating Capacity(KW)		77	93	115	152	184	221	297	405
压缩机 Compressor	输入功率 Input Power(KW)	15	19	22	30	37	45	60	75
	额定功率 Rated Power(HP)	20	25	30	40	50	60	80	100
电源 Power		3PH (380V/220V/415V/440V/480V/575V)50/60HZ							
蒸发器 Evaporator		高效紫铜管套铝翅片式+低噪音外转子风机Finned copper tube +low noise outer rotor fan							
冷媒 Refrigerant	类型 Type	R22/R134a							
	填充量 Quantity(KG)	12	15	18	24	30	36	48	60
换热器 Condenser	类型 Type	壳管式换热器 Shell and tube condenser							
	水管口径 Pipe Diameter	2"	2"	2.5"	2.5"	3"	4"	4"	4"
安全保护 Safety Protection		压缩机过热保护、过流保护、高低压保护、超温保护、流量保护、相序/缺相保护、排气过热保护、防冻保护 High and Low Pressure Protection, Overload Protection, Overtemperature Protection, Phase Sequence Protection, etc.							
外形尺寸 Dimensions(LxWxH)		2250x1200x2150			3060x1350x2100	3300x1500x2300	3900x1500x2300	2600x2300x1980	4620x2200x2200
运行重量 Operating weight		750	850	1000	1200	1250	1500	2000	2500

产品规格若有改变，恕不另行通知。We reserve the right to change specifications without prior notice.

低温环保型冷水机

ECO-FRIENDLY LOW TEMPERATURE CHILLER

特点：

- ◎机组压缩机选用世界知名品牌中低温型压缩机;
- ◎使用冷媒如R404a、R32等, 可满足各种制冷温度和环保要求;
- ◎温度选择范围: 可提供 -5℃~-30℃之间工艺冷冻水 (用户根据不同的生产需要, 选择不同出水温度的机组规格);
- ◎根据用户的需求, 可选用多种载冷剂 (冷冻水): 乙二醇水溶液、酒精、三元混合溶液等醇类载冷剂, 也可将蒸发器按防腐要求设计, 采用氯化钙水溶液;
- ◎按24小时不停机运行设计, 可满足各类连续性生产工艺用冷源;
- ◎配备各类安全保护装置, 性能稳定、噪音低、使用寿命长、操作简单。

FEATURE:

- ◎Adopted world class famous compressor for low-temperature refrigeration;
- ◎Various refrigerant, such as R404a, R32 etc., can meet different refrigeration temperatures or environmental protection requirements;
- ◎Options for temperature range: chilled water between -5°C ~ -30°C (depending on production needs to adopt different system configurations);
- ◎According to demand, a variety of cooling media (chilled water) are optional: ethylene glycol aqueous solution, alcohol, alcohol carrier such as ternary mixed solution. The evaporator can also be re-designed based on anti-corrosion requirements and adopt calcium chloride aqueous solution;
- ◎Designed for 24 hours non-stop working condition to provide continuous cold source for all kinds of production processes;
- ◎Equipped with various safety devices, providing stable performance with low noise and long life.

低温水冷式冷水机技术参数 (T=-10℃) LOW TEMPERATURE WATER CHILLER SPECIFICATIONS (T=-10℃)

型号/Model		Unit	XC-L5WL	XC-L10WL	XC-L15WL	XC-L20WL	XC-L25WL	XC-L30WL	XC-L40WL
制冷量/Cooling Capacity		Kw	7.7	16.1	23.3	32.2	38.2	46.6	62.5
		Kcal/h	6622	13846	20038	27692	32852	40076	53750
压缩机 Compressor	输入功率/Input Power	Kw	3.7	7.5	11.25	15	18.8	22.5	30
	额定功率/Rated Power	Hp	5	10	15	20	25	30	40
类型/Type		全封闭涡旋式(活塞式)Hermetic Scroll (Piston Type)							
输入总功率 Total Input Power		Kw	4.5	8.6	12.8	17.2	21	26.5	34
电源 Power		3PH-380V 50HZ(200V/220V/415V/460V 50HZ/60HZ)							
蒸发器 Evaporator	类型/Type	壳管式/不锈钢板换Shell And Tube/Plate Heat Exchanger							
	冷冻水量 Chilled Fluid Flow	m³/h	1.33	2.7	4	5.56	6.57	8.01	10.75
进出水管径/Pipe Diameter		Inch	1"	2"	2.5"	2.5"	3"	3"	4"
冷冻媒体 Refrigerant	类型/Type	R404a/R32							
	控制方式 Control Method	外平衡式热力膨胀阀 Expansion Valve							
冷凝器 Condenser	类型/Type	壳管式/冷凝器/Shell Condenser							
	水管口径/Pipe Diameter	Inch	1"	1.5"	2"	2"	2.5"	2.5"	3"
水泵 Pump	功率/Power	Kw	0.75	1.5	2.2	2.2	3	3	3
		Hp	1	2	3	3	4	4	4
	扬程 Distance	m	25	17	19	19	16	16	16
安全保护 Safety Protection		压缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 High and Low Pressure Protection, Overload Protection, Over Temperature Protection, Phase Sequence Protection, etc.							
外形尺寸 Dimensions(L*W*H)		mm	1150*680*990	1320*690*1380	1570*750*1380	1930*880*1650	2100*1000*1730	2240*1150*1840	
运行重量 Weight		Kg	209	319	475	633	754	897	1200

备注: 1. 制冷量是依据: 冷冻水进出水温度-5℃/-10℃, 冷却出水温度25℃/30℃。
2. 工作范围: 冷冻水温度范围: -10℃至10℃; 冷冻水进出水温差3℃至8℃。
冷却水温度范围: 18℃至35℃; 冷却水进出水温差3.5℃至10℃。
保留更改上述参数或尺寸而不另行通知的权利。

Note: 1. Cooling Capacity is calculated based on: inlet/outlet chilled fluid temperature: -5°C/-10°C, inlet/outlet cooling water temperature: 25°C/30°C.
2. Working condition: Chilled fluid temperature: from -5°C to 10°C, Inlet/outlet chilled fluid Temperature difference: from 3°C to 8°C.
Cooling water temperature: from 18°C to 35°C, Inlet/outlet cooling water Temperature difference: from 3.5°C to 10°C.
We reserve the right to modify above information without prior notice.

产品规格若有改变, 恕不另行通知。We reserve the right to change specifications without prior notice.



XC-L5WL



XC-LF5AL

低温水冷式冷水机技术参数 (T=-25℃) LOW TEMPERATURE WATER CHILLER SPECIFICATIONS (T=-25℃)

型号/Model		Unit	XC-L5WL	XC-L10WL	XC-L15WL	XC-L20WL	XC-L25WL	XC-L30WL	XC-L40WL
制冷量/Cooling Capacity		Kw	2.67	7.66	8.26	13.32	16.71	19.63	24.8
		Kcal/h	2295	6586	7102	11452	14367	16877	21323
压缩机 Compressor	输入功率/Input Power	Kw	3.7	7.5	11.25	15	18.8	22.5	30
	额定功率/Rated Power	Hp	5	10	15	20	25	30	40
	类型/Type	全封闭涡旋式(活塞式)Hermetic Scroll (Piston Type)							
输入总功率Total Input Power		Kw	4.5	8.6	12.8	17.2	21	26.5	34
电源Power		3PH-380V/50HZ(200V/220V/415V 50HZ/60HZ)							
蒸发器 Evaporator	类型/Type	壳管式/不锈钢板换Shell and tube/Plate Heat Exchanger							
	冷冻水量Chilled Fluid Flow	m³/h	1.29	3.7	3.99	6.44	8.07	9.49	11.98
冷冻媒体 Refrigerant	水管口径/Pipe diameter	Inch	1"	2"	2.5"	2.5"	3"	3"	4"
	类型/Type	R404a/R32							
	控制方式Control Method	外平衡式热力膨胀阀Expansion Valve							
冷凝器 Condenser	类型/Type	壳管式冷凝器/Shell condenser							
	水管口径/Pipe Diameter	Inch	1"	1.5"	2"	2"	2.5"	2.5"	3"
水泵Pump	功率/Power	Kw	0.75	1.5	2.2	2.2	4	4	5.5
		Hp	1	2	3	3	5	5	7.5
	扬程Distance	m	25	17	19	19	16	16	16
安全保护 Safety Protection		压缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 Compressor overheating protection, overcurrent protection, high and low pressure protection, overtemperature protection, flow protection, phase sequence/phase loss protection, exhaust overheating protection, antifreeze protection							
外形尺寸Dimensions(L*W*H)		mm	1150*680*990	1320*690*1380	1570*750*1380	1930*880*1650	2100*1000*1730	2240*1150*1840	
运行重量Operating Weight		Kg	209	319	475	633	754	897	1200

备注: 1. 制冷量是依据: 冷冻水进出水温度-20℃/-25℃, 冷却出水温度25℃/30℃。
2. 工作范围: 冷冻水温度范围: -25℃~-5℃; 冷冻水进出水温差3℃~8℃。
冷却水温度范围: 18℃~35℃; 冷却水进出水温差3.5℃~10℃。
保留更改上述参数或尺寸而不另行通知的权利。

Note: 1. Cooling Capacity is calculated based on: inlet/outlet chilled fluid temperature: -20°C/-25°C, inlet/outlet cooling water temperature: 25°C/30°C.
2. Working condition: Chilled fluid temperature: from -25°C to -5°C, Inlet/outlet chilled fluid Temperature difference: from 3°C to 8°C.
Cooling water temperature: from 18°C to 35°C, Inlet/outlet cooling water Temperature difference: from 3.5°C to 10°C.
We reserve the right to modify above information without prior notice.

低温风冷式冷水机技术参数 (T=-10℃) LOW TEMPERATURE AIR COOLED CHILLER SPECIFICATIONS (T=-10℃)

型号/Model		Unit	XC-LF5AL	XC-LF10AL	XC-LF15AL	XC-LF20AL	XC-LF25AL	XC-LF30AL	XC-LF40AL
制冷量/Cooling Capacity		Kw	4.68	10.98	16.47	21.96	23.4	27.2	34.2
		Kcal/h	4023	9440	14160	18881	20119	23369	29405
压缩机 Compressor	输入功率/Input Power	Kw	3.7	7.5	11.25	15	18.8	22.25	30
	额定功率/Rated Power	Hp	5	10	15	20	25	30	40
	类型/Type	全封闭涡旋式(活塞式)Hermetic Scroll (Piston Type)							
输入总功率 Total Input Power		Kw	4.86	9.4	13.47	18.8	22.55	28.5	36
电源 Power		3PH-380V/50HZ(200V/220V/415V 50HZ/60HZ)							
蒸发器 Evaporator	类型/Type	壳管式/不锈钢板换Shell and tube/Plate Heat Exchanger							
	冷冻水量Chilled Fluid Flow	m³/h	2.26	5.3	7.96	10.6	11.3	13.13	16.53
冷冻媒体 Refrigerant	水管口径/Pipe diameter	Inch	1"	2"	2.5"	2.5"	3"	3"	4"
	类型/Type	R404a/R32							
冷凝器 Condenser	控制方式Control Method	外平衡式热力膨胀阀Expansion Valve							
	类型/Type	高效紫铜管套铝翅片式+低噪音外转子风机Finned copper tube +low noise outer rotor fan							
水泵Pump	功率/Power	Kw	0.75	1.5	2.2	2.2	4	4	5.5
		Hp	1	2	3	3	5	5	7.5
	扬程Distance	m	25	17	19	19	16	16	16
安全保护 Safety Protection		缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 Compressor overheating protection, overcurrent protection, high and low pressure protection, overtemperature protection, flow protection, phase sequence/phase loss protection, exhaust overheating protection, antifreeze protection							
外形尺寸Dimensions(L*W*H)		mm	1350*720*1310	1600*890*1550	1950*1040*1655	2250*1040*1855	2660*1150*1970	3060*1350*2100	
运行重量Operating Weight		Kg	227	429	559	835	900	1080	1125

备注: 1. 制冷量是依据: 冷冻水进出水温度-5℃/-10℃, 冷却进出风温度30℃/38℃。
2. 工作范围: 冷冻水温度范围: -10℃至10℃; 冷冻水进出水温差3℃至8℃。
在环境温度不高于35℃环境下使用。
保留更改上述参数或尺寸而不另行通知的权利。

Note: 1. Nominal cooling capacity calculated according to: Inlet/outlet chilled fluid temperature: -5°C/-10°C, Inlet/outlet cooling air temperature: 30°C/38°C.
2. Working condition: The temperature range of chilled fluid is from -10°C to 10°C, Temperature difference between inlet and outlet chilled fluid is from 3°C to 8°C.
It is better to run the chiller while the ambient temperature at or below 35°C.
We reserve the right to modify the above information without further notice.

低温风冷式冷水机技术参数 (T=-25℃) LOW TEMPERATURE AIR COOLED CHILLER SPECIFICATIONS (T=-25℃)

型号/Model		Unit	XC-LF5AL	XC-LF10AL	XC-LF15AL	XC-LF20AL	XC-LF25AL	XC-LF30AL	XC-LF40AL
制冷量/Cooling Capacity		Kw	1.84	5.4	6	10	12.3	14.46	18.45
		Kcal/h	1584	4651	5184	8628	10570	12435	15863
压缩机 Compressor	输入功率/Input Power	Kw	3.7	7.5	11.25	15	18.8	22.25	30
	额定功率/Rated Power	Hp	5	10	15	20	25	30	40
	类型/Type	全封闭涡旋式(活塞式)Hermetic Scroll (Piston Type)							
输入总功率 Total Input Power		Kw	4.86	9.4	13.47	18.8	22.55	28.5	36
电源 Power		3PH-380V/50HZ(200V/220V/415V 50HZ/60HZ)							
蒸发器 Evaporator	类型/Type	壳管式/不锈钢板换Shell and tube/Plate Heat Exchanger							
	冷冻水量Chilled Fluid Flow	m³/h	0.9	2.6	2.9	4.85	5.94	7	8.9
冷冻媒体 Refrigerant	水管口径/Pipe diameter	Inch	1"	2"	2.5"	2.5"	3"	3"	4"
	类型/Type	R404a/R32							
冷凝器 Condenser	控制方式Control Method	外平衡式热力膨胀阀Expansion Valve							
	类型/Type	高效紫铜管套铝翅片式+低噪音外转子风机Finned copper tube +low noise outer rotor fan							
水泵Pump	功率/Power	Kw	0.75	1.5	2.2	2.2	4	4	5.5
		Hp	1	2	3	3	5	5	7.5
	扬程Distance	m	25	17	19	19	16	16	16
安全保护 Safety Protection		缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 Compressor overheating protection, overcurrent protection, high and low pressure protection, overtemperature protection, flow protection, phase sequence/phase loss protection, exhaust overheating protection, antifreeze protection							
外形尺寸Dimensions(L*W*H)		mm	1350*720*1310	1600*890*1550	1950*1040*1655	2250*1040*1855	2660*1150*1970	3060*1350*2100	
运行重量Operating Weight		Kg	227	429	559	835	900	1080	1125

备注: 1. 制冷量是依据: 冷冻水进出水温度-20℃/-25℃, 冷却风温度30℃~38℃。
2. 工作范围: 冷冻水温度范围: -25℃~-5℃; 冷冻水进出水温差3℃~8℃。
在环境温度不高于35℃环境下使用。
保留更改上述参数或尺寸而不另行通知的权利。

Note: 1. Nominal cooling capacity calculated according to: Inlet/outlet chilled fluid temperature: -20°C/-25°C, Inlet/outlet cooling air temperature: 30°C/38°C.
2. Working condition: The temperature range of chilled fluid is from -25°C to -5°C, Temperature difference between inlet and outlet chilled fluid is from 3°C to 8°C.
It is better to run the chiller while the ambient temperature at or below 35°C.
We reserve the right to modify above information without prior notice.

产品规格若有改变, 恕不另行通知。We reserve the right to change specifications without prior notice.

水冷式气悬浮冷水机组

AIR BEARING CENTRIFUGAL CHILLER

携成气悬浮冷水机是一种采取气浮轴承来进行旋转支撑的离心压缩机为核心而设计的冷水机组，携成气悬浮式冷水机组全系满足国标一级能效，国标工况COP可达7.0，综合部分负荷性能系数可达11.0，具有GOP/IPLV双一级能效，采用完美设计方案加高效性能组件，气悬浮离心式冷水机组比普通螺杆机组能效比提高50%左右，比传统的离心机或者多联机能效比提高25%左右，比磁悬浮机组能效比提高6%左右。

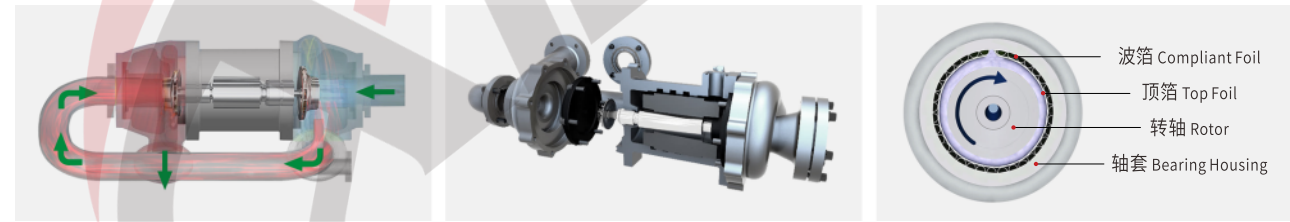
The Xiecheng air-bearing centrifugal chiller is a water chiller unit designed with a centrifugal compressor supported by air bearings at its core. The entire series of Xiecheng air-bearing chillers meet the National Standard Energy Efficiency Grade I. Under standard working conditions, the COP can reach 7.0, and the comprehensive part-load performance coefficient can reach 11.0, featuring dual Grade I energy efficiency of GOP/IPLV. With a perfect design and high-efficiency components, the air-bearing centrifugal chiller has an energy efficiency ratio about 50% higher than that of ordinary screw units, about 25% higher than that of traditional centrifugal or VRF units, and about 6% higher than that of magnetic suspension units.

特点：

- ◎气悬浮冷水机组使用R134a环保制冷剂，与普通螺杆冷水机组相比，综合节能可达50%，COP达7.0；
- ◎采用动压气悬浮压缩机，运行无摩擦，机械损失小，可连续启停稳定运行，无需维护；采用独创多筒支梁式箔片动压气浮轴承技术，启停寿命超25万次，10年耐久运行寿命；
- ◎两器设计采用了国内新型换热管，并结合系统的换热设计及流体仿真技术，从而使两器换热能力获得最大可能强化；
- ◎采用世界一流的机载变频驱动技术，机组软启动，减少启动电流的冲击；
- ◎控制先进，采用最新一代PLC控制器，精确控温，冷冻水出水温度精度±0.1度。

FEATURE:

- ◎The air-bearing chiller uses R134a environmentally friendly refrigerant. Compared with ordinary screw chillers, it can achieve comprehensive energy saving of up to 50%, with a COP of 7.0;
- ◎It adopts a dynamic pressure air-bearing compressor, which operates without friction and has low mechanical loss, allowing for stable continuous start-stop operation without the need for maintenance. It uses an innovative multi-beam foil dynamic pressure air-bearing technology, with a start-stop life exceeding 250,000 times and a 10-year durable operating life;
- ◎The design of the two heat exchangers adopts new types of heat exchange tubes in China, combined with the system's heat exchange design and fluid simulation technology, thereby maximizing the heat exchange capacity of the two heat exchangers;
- ◎It uses world-class on-board variable frequency drive technology, enabling soft start of the unit and reducing the impact of starting current;
- ◎The control system is advanced, using the latest generation of PLC controllers to achieve precise temperature control, with the chilled water outlet temperature accuracy of ±0.1 degree.



宽工况高性能气体动力学设计
Wide Working Condition and
High-Performance Gas Dynamics Design

启停寿命超25万次
Start-stop life exceeds 250,000 times

悬浮轴承，无机械摩擦
Suspension bearings, no mechanical friction

低噪音 低震动 Low Noise and Low Vibration

气悬浮离心式冷水机组运动部件悬浮，高刚度转子系统避免了长悬臂、低震动、低噪音、低损失，运行噪音小，尤其适用于需要低震动、低噪音的场合。The air-bearing centrifugal chiller has suspended moving parts, and the high stiffness rotor system avoids long cantilevers, resulting in low vibration, low noise, and low loss. It operates quietly and is particularly suitable for applications requiring low vibration and low noise.

长寿命低故障 Long Life and Low Failure Rate

气悬浮离心式压缩机无摩擦、无损耗，因而使用寿命长。The air-bearing centrifugal compressor has no friction and no wear, thus having a long service life.

低成本免维护 Low Cost and Maintenance-Free

气悬浮离心式冷水机组无需更换润滑油、无需更换滤芯、无需检修油系统，与磁悬浮相比没有多位检测传感器等电器件，因而故障率低，性能可靠；结构简单，人工成本、安装、运输、维护、消音隔振成本低。

The air-bearing centrifugal chiller does not require the replacement of lubricating oil, filters, or maintenance of the oil system. Compared with magnetic suspension systems, it does not have multiple detection sensors and other electrical components, resulting in a lower failure rate and reliable performance. Its simple structure leads to low labor costs, as well as reduced costs for installation, transportation, maintenance, and noise and vibration reduction.

气悬浮无油变频离心冷水机组不衰減

No Performance Degradation in Oil-Free Variable Frequency Centrifugal Chiller
相比普通机组运行十年性能衰減20%，气悬浮离心式冷水机组十年性能衰退不到4%，实现了长期高效运行。

Unlike ordinary units that see a 20% performance decline after ten years of operation, the air-bearing centrifugal chiller's performance degradation is less than 4% after a decade, achieving long-term efficient operation.

喷淋降膜式变频螺杆冷水机

SPRAY FILM FALLING TYPE SCREW CHILLER WITH INVERTER

特点：

- ◎COP可达6.0，相对普通定频冷水机节能25%-35%；
- ◎采用世界一流的机载变频驱动技术，机组软启动，减少启动电流的冲击；
- ◎采用喷淋降膜式蒸发器，传热系数高，换热更均匀，效率更高，端温差小（优于满液，更优于干式）；
- ◎冷却介质走铜管内部，易于清洗；
- ◎控制先进，采用最新一代PLC控制器，精确控温，冷冻水出水温度控制精度±0.5度以内。

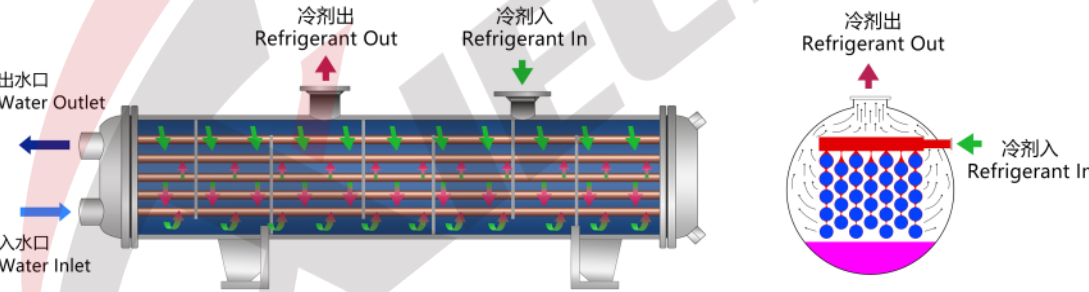
FEATURE:

- ◎COP could reach 6.0, 25~35% energy saving compared with standard set-frequency chillers;
- ◎Adopted the world class built-in frequency variation driving and soft starting technology to reduce impact of starting current;
- ◎With Spray Film Falling Type Evaporator, heat conduction higher and heat exchanging more even, high efficiency and low temperature differences with ends (better than Flooded Type, way better than Dry Type);
- ◎Cooling medium runs through the copper tubes, easy to clean;
- ◎Adopted the latest generation PLC controller to realize precision control of cold water supplying with deviation less than ±0.5°C.



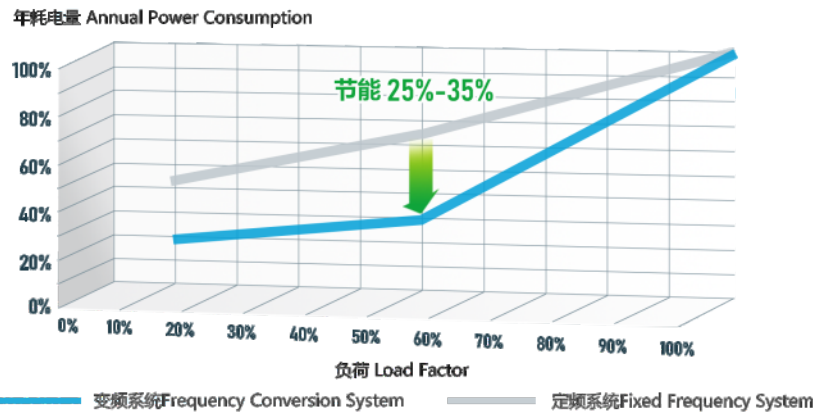
喷淋降膜式蒸发器，换热效率高，端温差小

With Spray Film Falling Type Evaporator, high heat exchange efficiency and low temperature differences with ends



世界一流的机载变频驱动技术，高效节能25%-35%

The world class built-in frequency variation driving, high efficiency and energy saving 25%-35%



25%-35%
ENERGY-SAVING

产品规格若有改变，恕不另行通知。We reserve the right to change specifications without prior notice.

水冷式螺杆冷水机

WATER COOLED SCREW CHILLER



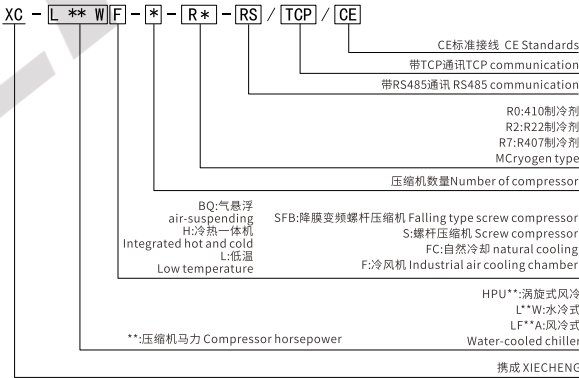
XC-L320WS-2

特点：

- ◎采用世界知名品牌半封闭螺杆式压缩机,可确保长时间高效稳定运行；
- ◎压缩机为无段容调,可实现制冷量在25%-100%之间任何段位连续调节,达到稳定的能量输出控制；
- ◎壳管式冷凝器采用高精密外螺纹铜管设计和壳管式蒸发器采用高精密内螺纹铜管设计,换热面积更大,效率更高,最大化发挥机器的性能；
- ◎控制先进,采用最新一代PLC控制器,精确控制机组,确保高效合理运行；
- ◎精确控温,冷冻水出水温度控制精度±0.5度以内,满足高精度控温要求；
- ◎具有电流过载保护、高低压压力、流量控制阀等保护系统及电子时间延迟等完善的安全保护装置,触控式液晶显示屏,异常直观显示系统；
- ◎机组备有单、双回路设计,满足客户的不同选择。当双回路配置机组的单台压缩机出现故障时,另一台压缩机仍可正常运行,不影响客户使用；
- ◎配备一周24小时定时功能,实现整机预约自动运行；
- ◎配备通讯功能,实现自动化远程管理。

FEATURE:

- ◎Adopted world famous branded semi-hermetic compressors for long term reliable and efficient running;
- ◎Compressor runs with no stage limits to realize stageless continuous adjustment of cooling capacity in between 25%-100% power loaded and maintaining stable outputs;
- ◎Shell and tube condenser adopts high-precision external threaded copper tube design with larger heat exchanging area for higher efficiency and maximizing system performance;
- ◎Adopted the latest generation PLC controller to realize precision control of the unit, ensuring efficient and stable running;
- ◎Accuracy of outlet chilled water temperature withinin ±0.5℃, compliable to high-precision temperature control requirements;
- ◎Complete safety devices including current overload protector, high and low pressure controllrers, flow control valve and electronic time delayer, also touch screen LCD with visual system on failure display;
- ◎The units are available in single and dual circuit designs to meet the different choices of customers. When the single compressor of the dual circuit configuration unit fails, the other compressor can still operate normally, without affecting the customer's use;
- ◎Equipped with one week 24 hours timing function to enable automatic operation by appointment;
- ◎Equipped with communication function to realize automatic remote management.



触摸屏

Touch Screen

水冷螺杆式冷水机技术参数 TECHNICAL SPECIFICATIONS

型号Model	Unit	XC-L30WS	XC-L40WS	XC-L50WS	XC-L60WS	XC-L80WS	XC-L100WS	XC-L120WS	XC-L160WS
制冷量 Refrigerating Capacity	Kw	99	142.5	186.5	200.1	264	375	406	537.1
	Kcal/h	85140	122550	160390	172086	227040	322500	349160	461906
输入功率 Input Power	Kw	23.3	30.8	38.6	42.5	55.6	67.1	79.4	55.6×2
制冷剂流量控制方法 Control Type		外平衡式热力膨胀阀Externally balanced thermal expansion valve							
冷媒 Refrigerant		R22/R407c/R134a							
压缩机 Compressor	款式 Type	半封闭螺杆式Semi-Hermetic Screw Type							
	数量 Quantity	1~4							
	启动方式 Startup Mode	星三角启动Semi-closed screw type							
	能量控制(%) Capacity Control	0-25-50-75-100							
蒸发器 Evaporator	电源Power	3PH-380V/50HZ(200V/220V/415V 50HZ/60HZ)							
	款式 Type	干式壳管式Shell and TubeType							
	冷却水流量(m³/hr) Chilling Water Flow	19	21	26	30	39	55	68	86
	水管口径(Inch) Water Pipe Diameter	3"	3"	3"	4"	4"	4"	4"	6"
冷凝器 Condenser	类型 Type	壳管式 Shell And Tube							
	冷却水流量(m³/hr) Chilling Water Flow	21	26	33	40	45	69	85	108
	水管口径(Inch) Water Pipe Diameter	3"	3"	3"	4"	4"	4"	4"	4"×2
安全保护Safety Protection		压缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 High and Low Pressure Protection, Overload Protection, Over Temperature Protection, Phase Sequence Protection, etc.							
外形尺寸 Dimensions (L*W*H)	mm	2145*800*1670	2340*800*1670	2340*800*1670	2580*800*1720	3130*900*1860	3340*1300*1450	3340*1300*1500	3880*875*1850
单位换算 Unit Exchange		1KW=860Kcal/h		1RT=3024Kcal/h		1Btu/hr=0.252Kcal/h			

型号Model	Unit	XC-L180WS	XC-L250WS	XC-L280WS	XC-L320WS	XC-L380WS	XC-L400WS	XC-L500WS	XC-L580WS
制冷量 Refrigerating Capacity	Kw	594	825	924	1056	1254	1320	1650	1914
	Kcal/h	510840	709500	794640	908160	1078440	1135200	1419000	1646040
输入功率 Input Power	Kw	63.1×2	79.4×2	87.5×2	104.8×2	120.7×2	150×2	205.35×2	214.85×2
制冷剂流量控制方法 Control Type		外平衡式热力膨胀阀Externally balanced thermal expansion valve							
冷媒 Refrigerant		R22/R407c/R134a							
压缩机 Compressor	款式 Type	半封闭螺杆式Semi-Hermetic Screw Type							
	数量 Quantity	1~4							
	启动方式 Startup Mode	星三角启动Semi-closed screw type							
	能量控制(%) Capacity Control	0-25-50-75-100							
蒸发器 Evaporator	电源Power	3PH-380V/50HZ(200V/220V/415V 50HZ/60HZ)							
	款式 Type	干式壳管式Shell and TubeType							
	冷却水流量(m³/hr) Chilling Water Flow	96	136	150	168	206	240	273	308
	水管口径(Inch) Water Pipe Diameter	6"	6"	6"	6"	8"	8"	10"	10"
冷凝器 Condenser	类型 Type	壳管式 Shell And Tube							
	冷却水流量(m³/hr) Chilling Water Flow	122	170	186	220	252	294	334	372
	水管口径(Inch) Water Pipe Diameter	4"×2	4"×2	5"×2	5"×2	6"×2	6"×2	6"×2	6"×2
安全保护Safety Protection		压缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 High and Low Pressure Protection, Overload Protection, Over Temperature Protection, Phase Sequence Protection, etc.							
外形尺寸 Dimensions (L*W*H)	mm	3910*875*1950	3670*1330*2130	4250*1320*2150	4350*1320*2150	4450*1580*2230	4900*1600*2350	4950*1760*2360	5010*1760*2360
单位换算 Unit Exchange		1KW=860Kcal/h		1RT=3024Kcal/h		1Btu/hr=0.252Kcal/h			

备注: 1、制冷量是依据冷冻水入口温度15℃, 出口10℃; 冷却水入口温度30℃, 出口温度35℃计算得出。
2、工作范围: 冷冻水温度范围: 5℃至35℃; 冷冻水进出水温差: 3℃至8℃。
冷却水温度范围: 18℃至37℃; 冷却水进出水温差: 3.5℃至10℃。

Note: 1. Nominal cooling capacity calculated according to :Inlet/outlet chilled fluid temperature:15℃/10℃, Inlet/outlet cooling water temperature: 30℃/35℃.
2.Working condition:The temperature range of chilled fluid is from 5℃ to 35℃ Temperature difference between inlet and outlet chilled fluid is from 3℃ to 8℃.
The temperature range of cooling water from 18℃ to 37℃ Temperature difference between inlet and outlet cooling water is from 3.5℃ to 10℃. The above red parameters is for the particular voltage, which need to made accordingly.

风冷式螺杆冷水机

AIR COOLED SCREW CHILLER

特点：

- ◎采用世界知名品牌半封闭螺杆式压缩机，可确保长时间高效稳定运行；
- ◎压缩机为无段容调，可实现制冷量在25%-100%之间任何段位连续调节，达到稳定的能量输出控制；
- ◎采用高效翅片式冷凝器和高效率静音制冷专用风机，无需提供冷却水，安装便捷；
- ◎壳管式蒸发器采用高精密内螺纹铜管设计，换热面积更大，效率更高，最大化发挥机器的性能；
- ◎控制先进，采用最新一代PLC控制器，精确控制机组，确保高效合理运行；
- ◎精确控温，冷冻水出水温度控制精度±0.5度以内，满足高精度控温要求。
- ◎具有电流过载保护、高低压力、流量控制阀等保护系统及电子时间延迟等完善的安全保护装置，触控式液晶显示屏，异常直观显示系统；
- ◎配备一周24小时定时功能，实现整机预约自动运行；
- ◎配备通讯功能，实现自动化远程管理。

FEATURE:

- ◎Adopted world famous branded semi-hermetic compressors for long term reliable and efficient running;
- ◎Compressor runs with no stage limits to realize stageless continuous adjustment of cooling capacity in between 25%-100% power loaded and maintaining stable outputs;
- ◎With highly efficient fin type condenser and silent refrigeration fan, no need to equip cooling water, easy to install;
- ◎Shell and tube evaporator adopts high-precision internal threaded copper tube design with larger heat exchanging area for higher efficiency and maximizing system performance;
- ◎Adopted the latest generation PLC controller to realize precision control of the unit, ensuring efficient and stable running;
- ◎Accuracy of outlet chilled water temperature within ±0.5 Celsius degrees, compliable to high-precision temperature control requirements;
- ◎Complete safety devices including current overload protector, high and low pressure controller, flow control valve and electronic time delayer, also touch screen LCD with visual system on failure display;
- ◎Equipped with one week 24 hours timing function to enable automatic operation by appointment;
- ◎Equipped with communication function to realize automatic remote management.



XC-LF240AS

风冷螺杆式冷水机技术参数 TECHNICAL SPECIFICATIONS

型号Model	Unit	XC-LF40AS	XC-LF50AS	XC-LF60AS	XC-LF80AS	XC-LF100AS	XC-LF120AS	XC-LF160AS	XC-LF180AS	XC-LF200AS	XC-LF240AS
制冷量 Refrigerating Capacity	Kw	125	165.2	176	237.2	330	353.2	473.4	556.3	655	767
	Kcal/h	107500	142072	151360	203992	283800	303752	407124	478418	563300	659620
输入功率 Input Power	Kw	30	37	45	30x2	37x2	45x2	60x2	67x2	75x2	90x2
制冷剂流量控制方法 Control Type		外平衡式热力膨胀阀 Externally Balanced Thermal Expansion Valve									
冷媒 Refrigerant		R22/R407C/R134a									
	款式 Type	半封闭螺杆式 Semi-Hermetic Screw									
	数量 Quantity	1/2/3/4									
	启动方式 Startup Mode	Y-△启动									
压缩机 Compressor	容量控制(%) Capacity Control	0-25-50-75-100									
	电源Power	3PH-380V/50HZ (200V/220V/415V 50HZ/60HZ)									
蒸发器 Evaporator	款式 Type	干式壳管式 Shell And Tube Type									
	冷却水流量(m³/hr) Chilling Water Flow	18	23	26	26	46	52	71	86	100	117
	水管口径(inch) Water Pipe Diameter	4"	4"	4"	4"	4"	4"	6"	6"	6"	6"
冷凝器 Condenser	类型 Type	空气冷却式高效铜管套铝片 Air Cooled High-Efficient Inner Threaded Copper-Tubing Aluminum Fin Type									
	功率/Power(Kw)	3				4				11	
水泵 Pump	马力(HP)	4				5.5				15	
	扬程Distance(m)	16				18				14	
	流量/Flow Rate (L/min)	800				800				2783	
风机 Fan	款式 Type	大功率轴流风机 Low Noise Orter Rotor High Power Axial Fan									
	功率Power(kw)	2.4	3.75	3.75	4.6	6.4	6.4	11.2	12.8	14.4	16
	风量(m³/hr) Cooling Air Flow	39000	65700	65700	82000	104000	104000	182000	208000	235000	260000
安全保护 Safety Protection		压缩机过热保护, 机组过载保护装置, 高低压力保护装置, 防冻保护装置, 电源逆相/缺相保护器, 水流开关 Compressor Over Heat / Over Loading / High and Low Pressure / Over Temperature / Phase and Phase Reverse / Anti Freezing									
外形尺寸(W*L*H) Dimension	mm	3000*1350*2025	3300*1500*2255	4000*1600*2125	3500*2200*2030	3960*2200*2030	4550*2200*2080	4600*2200*2080	5088*2240*2500	6088*2240*2500	9088*2240*2500
机组重量 Net Weight	Kg	1300	1620	1930	2260	3340	3850	4200	4450	4670	4860
单位换算 Unit Exchange		1KW=860Kcal/h		1RT=3024Kcal/h		1Btu/hr=0.252Kcal/h					

备注: 1. 制冷量是依据冷冻水入口温度15℃, 出口10℃; 冷却入风温度30℃, 出风温度40℃计算得出
2. 工作范围: 冷冻水温度范围: 5℃至50℃; 冷冻水进出水温差: 3℃至8℃
冷却温度范围: 35℃以下使用; 冷却进出风温差: 3℃至8℃

Note: 1. The outcome cooling capacity is calculated in accordance with the running process of inlet chilled water temperature 15℃ and outlet water temperature 10℃. Inlet cooling air temperature 30℃ and outlet air temperature 40℃.
2. Working condition: Chilled water temperature ranges from 5℃ to 50℃. Temperature difference between inlet and outlet chilled water is 3℃ to 8℃. Setting temperature recommended is not higher than 35℃.
Temperature difference between inlet and outlet chilling air is 3℃ to 8℃.

产品规格若有改变, 恕不另行通知。We reserve the right to change specifications without prior notice.

工业一体式水冷/风冷螺杆式冷水机组

THE INDUSTRIAL INTEGRATED WATER-COOLED/AIR-COOLED SCREW CHILLER

特点：

- ◎工业一体式水冷/风冷螺杆式冷水机组，又名撬块式冷水机组（也可以定制工业一体式涡旋机组）是将制冷主机、冻水储水箱、冻水循环水泵、工艺水泵、水路系统及各种阀件、工程控制柜集合在一起，集中控制，质量可靠，结构紧凑，占用空间少，安装简单方便，降低工程安装费用。广泛应用于：医疗、化工、食品、机械等行业。
- ◎可定制高压型一体式冷水机组，专为PET瓶胚注塑、吹塑及汽车配件等需要高压冷却的工艺设计。

FEATURE:

- ◎The integrated industrial water-cooled/air-cooled screw chiller, or Skid-mounted Chiller (industrial integrated scroll chiller can also be customized) integrates the chiller, cold water storage tank, cold water circulation pump, process water pump, water system and various valves, and engineering control cabinet. It has reliable quality, compact structure, small space occupation, simple and convenient installation, and reduces engineering installation costs. It is widely used in medicine, chemicals, food, machinery and other industries.
- ◎Optional to customize for High Pressure integrated chiller unit for process design requiring high pressure cooling like PET, Blow Molding or Automobile Parts, etc.



工业一体式水冷螺杆式冷水机组
The Industrial Integrated Water-Cooled Screw Chiller

工业一体式风冷螺杆式冷水机组(高压型)
The Industrial Integrated Air-cooled Screw Chiller(High Pressure Type)

热回收工业冷水机组

HEAT RECOVERY INDUSTRIAL CHILLER UNIT

热回收工业冷水机组利用先进热回收技术，将冷水机组运行过程中排向外界的大量废热回收再利用，作为用户的最终热源或初级热源。即为客户提供冷水的同时，还可免费供应大量热水。广泛应用于食品加工、医疗行业、化工行业、新材料、工业制造、包装橡塑等。

The heat recovery industrial chiller unit utilizes advanced heat recovery technology to recycle a large amount of waste heat generated during the operation of the chiller. This waste heat can be reused as the final or primary heat source for users. Thus, it provides chilled water to customers while also supplying a large amount of hot water for free. This technology is widely used in food processing, the medical industry, the chemical industry, new materials, industrial manufacturing, packaging, and rubber and plastics.

特点：

- ◎采用热回收装置，将制冷过程中产生的废热予以回收，提供高达60℃左右的免费热水，节省运行成本；
- ◎采用世界知名品牌半封闭螺杆式压缩机，可确保长时间高效稳定运行；
- ◎压缩机为无段容调，可实现制冷量在25%-100%之间任何段位连续调节，达到稳定的能量输出控制；
- ◎壳管式冷凝器采用高精密外螺纹铜管设计和壳管式蒸发器采用高精密内螺纹铜管设计，换热面积更大，效率更高，最大化发挥机器的性能；
- ◎控制先进，采用新一代PLC控制器，精确控制机组，确保高效合理运行；
- ◎精确控温，冷冻水出水温度控制精度±0.5度以内，满足高精度控温要求；
- ◎具有电流过载保护、高低压压力、流量控制阀等保护系统及电子时间延迟等完善的安全保护装置，触控式液晶显示屏，异常直观显示系统；
- ◎机组备有单、双回路设计，满足客户的不同选择。当双回路配置机组的单台压缩机出现故障时，另一台压缩机仍可正常运行，不影响客户使用；
- ◎配备一周24小时定时功能，实现整机预约自动运行；
- ◎配备通讯功能，实现自动化远程管理。

FEATURE:

- ◎Heat Recovery Device: Recycles waste heat generated during the cooling process to provide up to 60°C of free hot water, reducing operating costs;
- ◎High-Quality Compressor: Uses a world-renowned brand semi-hermetic screw compressor, ensuring long-term efficient and stable operation;
- ◎Variable Capacity Control: The compressor allows for stepless capacity control, enabling continuous adjustment of cooling capacity between 25% and 100% for stable energy output control;
- ◎Advanced Heat Exchangers: Shell-and-tube condenser with high-precision outer-threaded copper tubes and shell-and-tube evaporator with high-precision inner-threaded copper tubes provide larger heat exchange area and higher efficiency, maximizing machine performance;
- ◎Advanced Control: Equipped with a new generation PLC controller for precise unit control, ensuring efficient and rational operation;
- ◎Precise Temperature Control: Controls the outlet temperature of chilled water with an accuracy of ±0.5 degrees, meeting high-precision temperature control requirements;
- ◎Comprehensive Safety Features: Includes overcurrent protection, high and low pressure protection, flow control valve, electronic time delay, and other complete safety protection devices. The touch-screen LCD display provides an intuitive system overview;
- ◎Single and Dual Circuit Design: Offers single or dual circuit designs to meet different customer needs. In the event of a fault in one compressor of a dual circuit unit, the other compressor can continue to operate normally, ensuring uninterrupted use;
- ◎24-Hour Timing Function: Equipped with a 24-hour weekly timer function for scheduled automatic operation of the entire unit;
- ◎Communication Capabilities: Supports automated remote management with communication functions.

防爆螺杆式冷水机

EXPLOSION-PROOF WATER CHILLER

特点：

- ◎防爆螺杆式冷水机组采用隔爆、无火花、浇封和气密等多种防爆方式，使机组可以在易燃易爆场合使用，如：石油、化工、冶金、制药和国防工业等空气存在爆炸性气体混合物的自封闭的室内空间环境作为净化空气和调节气温(降低温度或升高温度)之用。机组型号由30HP-720HP不等，可根据客户要求定做。

FEATURE:

- ◎The explosion-proof screw chiller adopts various explosion-proof methods such as insulation, increased safety, intrinsic safety, positive pressure, oil filling, sand filling, no spark, pouring sealing, and air tightness, enabling the unit to be used in flammable and explosive environments, such as in the petroleum, chemical, metallurgy, pharmaceutical, and defense industries, where the air contains explosive gas mixtures in enclosed indoor spaces, for air purification and temperature regulation (reducing or increasing temperature). The series models range from 30HP to 720HP, which can be customized according to customer requirements.

低温水冷式螺杆冷水机

LOW TEMP. WATER COOLED SCREW CHILLER

特点：

- ◎低温水冷式螺杆冷水机组是针对钢铁、医药、电子、化工、食品等特殊行业，根据多年工业用冷冻机组设计经验，精心设计研发的新一代低温冷冻机组，其温度范围可在 -60℃-0℃之间任意调节；
- ◎采用知名品牌新型低温螺杆压缩机，整机系统零部件及主要电气控制元件均为进口品牌，性能稳定可靠，控制系统采用PLC触摸屏控制，操作更为精确、简便；
- ◎可根据客户需求订制各种使用工况的低温冷水机组。

FEATURE:

- ◎Low Temperature Water Cooled Screw Chillers are especially for industries like iron, medication, electronics, chemical and food products, etc. With years of experiences in industrial chiller unit design, the new generation of low temperature refrigeration units are capable of freely adjusting temperature from -60°C -0°C;
- ◎Equipped with famous brand low-temperature screw compressors, the chiller unit not only adopts imported devices in systematic and main electric controlling parts, but also the PLC touch screen operation system, hence to provide stable and reliable performances and accurate but simple operations;
- ◎The configuration can be customized depending on demand for various running conditions.

XC-L100WSL