



LOW TEMPERATURE CHILLER

低温冷水机

PRODUCT OVERVIEW

产品概述

Utilizing imported brand compressors, this unit boasts superior low-temperature performance, reliability, durability, and high refrigeration efficiency. Equipped with a high-precision microcomputer control valve, it operates fully automatically, requiring no dedicated personnel.

The heat transfer medium can be ethylene glycol, propylene glycol antifreeze, or brine. Special materials and processes are employed to prevent evaporator corrosion and oxidation, extending the equipment's service life.

The unit's structural design is scientifically sound and aesthetically pleasing. It features a fully painted, rust- and corrosion-resistant finish and comprehensive protection functions: phase loss and reverse phase protection; compressor over-protection; high and low pressure protection; automatic water shortage alarm; low temperature protection; anti-icing protection; and water flow protection.

Depending on customer needs, ultra-low temperature units can achieve water output temperatures as low as -40°C , while special ultra-low temperature units can reach -70°C . Employing low-temperature linkage throttling technology, its low-temperature performance is beyond imagination.

Application areas: Laser, chemical, electroplating and oxidation, precision instruments, ink, printing, papermaking, hardware casting, blow molding, injection molding and thermoforming, food cleaning and processing, pharmaceutical industry, electronic circuit boards, wave soldering and reflow soldering, roller clamping cold welding, space purification, welding and cutting, surface treatment, aluminum materials, glass processing, tire manufacturing.

Unit design: Fully intelligent control, 24-hour uninterrupted operation.

采用进口品牌压缩机，低温性能卓越，可靠耐用，制冷效率高，配备高精度微电脑控制阀，全自动运行，无需专人值守。

传热介质可以是乙二醇、丙二醇防冻液或盐水，采用特殊材料和工艺，杜绝蒸发器腐蚀和氧化现象，延长设备的使用周期。

机组结构设计，分析科学美观，全烤漆防锈防腐，各项保护功能齐全：缺相、逆相保护；压缩机过保护；高低压力保护；缺水自动报警；温度过低。防结冰保护；水流不紧。

根据客户使用不同，超低温机可以做到 -40°C 出水，特殊超低温机可以达到 -70°C ，采用低温联动节流技术，低温性能超乎想象。

应用领域：激光、化工、电镀氧化、精密器械、油墨、印刷、造纸、五金铸造、吹瓶、注塑吸塑行业、食品清洗清洗加工、医药行业、电子电路板、波峰焊回流焊、滚筒夹冷焊、空间的净化处理、焊接切割、表面处理、铝材料、玻璃工艺、轮胎制造业。

机组设计：全智能控制，24 小时不停机运行。



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SPECIFICATIONS

规格参数

Parameter 参数	Model 型号	HLS- 20W	HLS- 25W	HLS- 30W	HLS- 36W	HLS- 40W	HLS- 45W	HLS- 50W	HLS- 60W
Cooling capacity 制冷量	KW 50HZ/60Hz	67.14 78.56	81.53 95.39	99.91 116.05	118.8 140.5	129.06 151.00	148.5 175.2	165195	196230
	Kcal/h 50HZ/60Hz	57758 67565	70720 82040	85303 99805	102168 121088	110984 129851	127710 150672	141900 167700	168560 191800
Total input power 总输入功率	KW	17.3	21.3	25.6	29.75	33.1	38.95	43.23	51.75
Running current 运行电流	A	42.1	48.5	58.3	64	75.4	82.3	90.5	110
Power Supply 电源	Volt	3P-380/415V-50/60HZ							
Refrigerant 冷媒	Name 名称	R22							
	Fill 充注量 (kg)	2.8*4	6.3*2	5.6*3	7.2*3	5.6*4	9*3	7.5*4	7.2*5
	Control Method 控制方法	Thermal expansion valve 热力膨胀阀							
Compressor 压缩机	Type 类型	Hermetic scroll 全封闭涡旋式							
	Power 功率 (KW)	3.75*4	9.4*2	7.5*3	9*3	7.5*4	11.25*3	9.37*4	9*5
Cooling water 冷却水	water flow 水量 m³/h	14.44	17.54	21.32	24.12	27.74	30.15	33.5	40.2
	Pipe diameter 管径	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	3"
Chilled Water 冷冻水	water flow 水量 m³/h	11.55	14.03	17.06	19.5	22.19	24.75	27.5	33
	water tank 水箱 (升/L)	80	80	100	200	200	250	400	500
	Pipe diameter 管径	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"	3"
Waterpump 水泵	Power 功率 (KW)	2.2	2.2	3	3.75	3.75	3.75	3.75	3.75
	Pressure 压力 (Mpa)	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23
Dimension 外形尺寸	Length 长 (mm)	2080	2080	2080	2180	2180	2180	2080	2180
	Width 宽 (mm)	800	830	8300	8800	880	880	1550	1550
	Height 高 (mm)	1460	1460	1500	1500	1500	1600	1460	1460
Weight 重量	kg	440	620	690	740	850	1100	1450	1880

Design condition:Evaporate at 2°C under standard atmospheric pressure.Water comes out at7°C and condenses at 45°C Superheat 5°C ,supercool 5°C

设计工况：标准大气压下，2°C蒸发。7°C出水，45°C冷凝。过热度 5°C，过冷度 5°C



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