



WATER-COOLED WATER CHILLER

水冷式冷水机



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OVERVIEW

概述

Standard Unit Uses imported brand compressor, powerful and energy-efficient. Employs shell-and-tube condenser, low resistance, fast heat dissipation, long service life, and smooth lubricating oil return. Models 3W and above come standard with shell-and-tube evaporator, ensuring more stable operation, higher heat exchange efficiency, and lower failure rate. Standard 304# stainless steel insulated water tank with fully automatic water replenishment. Temperature control range adjustable from 5 to 30 degrees Celsius. Uses imported Taiwanese controller, fully automatic temperature control system, full Chinese display, humidity display accurate to 0.1 °C . Comprehensive safety protections: phase sequence protection, undervoltage protection, over-temperature protection, antifreeze protection, water shortage protection, overcurrent protection, high and low pressure protection, etc.

Designed for 24-hour uninterrupted operation.

标准装置

采用进口品牌压缩机，动力强劲，能效比高

采用壳管式冷凝器，阻力小，散热快，使用寿命长，润滑油回油畅通 3W 以上型号标配壳管式蒸发器，运行更稳定，换热效率更高，故障率更低标配 304# 不锈钢保温水箱，全自动补水温控范围 5~30 度可调

采用台湾进口控制器，全自动温控系统，全中文显示，显示湿度精准到 0.1℃安全保护齐全：相序保护、欠压保护、超温保护、防冻保护、缺水保护过电流保护、高低压保护等。

机组全体 24 小时不停机运行设计。



Application areas include: milk quick-freezing, lasers, chemicals, electroplating and oxidation, precision machinery, inks, printing, papermaking, hardware, casting, blow molding, injection molding and blister packaging, food cleaning and freezing, pharmaceuticals, electronic circuit boards, wave soldering and reflow soldering, purification of cooling spaces in roller jackets, ultrasonic cleaning, bath heating and cooling, welding and cutting, surface treatment, aluminum profiles, glass crafts, jewelry processing, leather, and aquaculture.

应用领域

包括：牛奶速冻、激光、化工、电镀氧化、精密机械、油墨、印刷、造纸、五金、铸造、吹瓶、注塑吸塑行业、食品清洗冷冻、医药行业、电子电路板、波峰焊回流焊、滚筒夹层冷却空间的净化处理、超声波清洗、浴池升降温、焊接切割、表面处理、铝型材、玻璃工艺、首饰加工、皮革、养殖业。

SPECIFICATIONS

规格参数

Parameter 参数	Model 型号	HLS- 10A	HLS- 12A	HLS- 15A	HLS- 20A	HLS- 25A	HLS- 30A	HLS- 40A	HLS- 50A
Cooling capacity 制冷量	KW	28.01	33.79	44.15	59.08	71.72	87.20	113.58	135.49
	50HZ/60Hz	32.78	39.53	51.65	69.12	83.91	102.02	132.89	158.52
	Kcal/h	24089	29059	37965	50805	61683	74992	97675	116521
	50HZ/60Hz	28184	33999	44419	59442	72169	87741	11428	136330
Power Supply 电源	Volt	3N-380V/415V-50HZ/60HZ							
Refrigerant 制冷剂	Name 名称	R22/R404a/R407c							
	Fill 充注量 (kg)	4.3*2	5*2	6.5*2	4.3*4	10.5*2	8*3	8*4	10.5*4
	Control Method 控制方法	External equalizer thermal expansion valve 外平衡式热力膨胀阀							
Compressor 压缩机	Type 类型	Scroll or Piston 涡旋式或活塞式							
	Power 功率 (KW)	3.75*2	4.5*2	5.5*2	3.75*4	9.4*2	7.5*3	7.5*4	9.4*4
Cooling water 冷却风量	m³/h	10600	12600	15800	21000	26000	32000	42000	52800
Chilled Water 冷冻水	water flow 水量 m³/h	4.82	5.81	7.6	10.16	12.34	15.1	19.53	23.3
	water tank 水箱 (升 /L)	80	80	100	200	200	250	400	400
	Pipe diameter 进出水管径	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"
Waterpump 水泵	Power 功率 (KW)	1.5	1.5	1.5	2.2	2.2	3	3.75	3.75
	Head 扬程 (kpa)	205	205	205	220	220	240	240	240
Dimension 外形尺寸	Length 长 (mm)	1540	1600	1780	2030	2580	2580	2030	2180
	Width 宽 (mm)	780	820	830	910	910	910	1800	2000
	Height 高 (mm)	1690	1770	1750	1925	2020	2020	2000	2100
Weight 重量	kg	370	520	590	790	880	1100	1280	1420

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-6 0W
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 at 7°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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