



深圳市海菱克制冷机械设备有限公司

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CHINA'S FIRST LOW-CARBON INDUSTRIAL CHILLER MANUFACTURER



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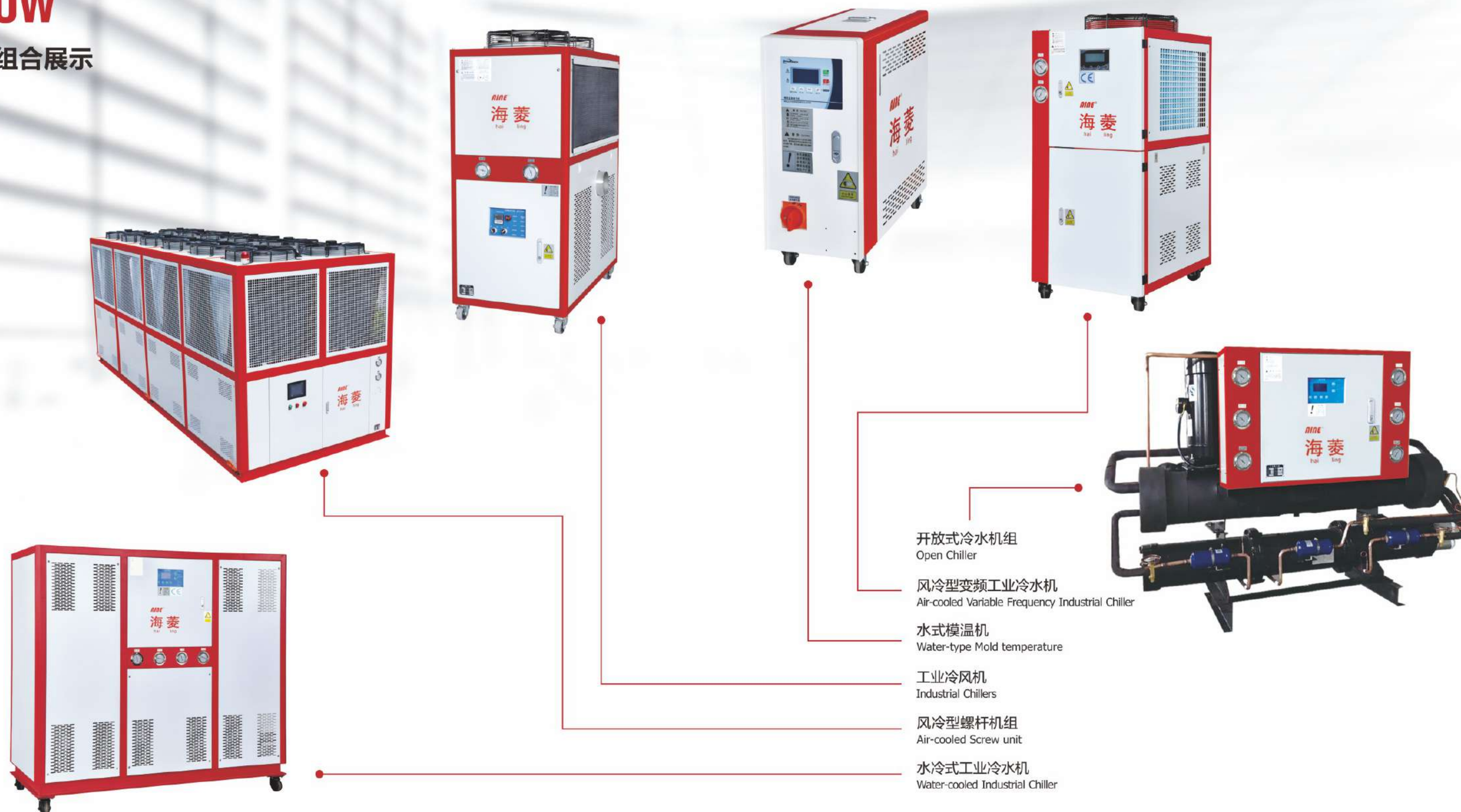
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深圳市海菱克制冷机械设备有限公司是一家专注于工业制冷设备，工业温度控制设备及塑料机械周边设备集研发、生产、销售、服务于一体的现代化高科技企业。公司从成立之初就确定了以高素质人才带动企业持续创新的发展战略，近10年来通过逐渐引国内外高等技术人才扩充企业技术实力，实施了从产品研发之初就严格按照国际标准来设计和开发产品。公司目前拥有完善的制造设备,先进的检测系统，独立的加工、生产工艺，以及一支开拓创新的技术人才队伍，为产品质量的不断优化提供了强大的保障。为了满足不同客户的实际需求，公司还投入大量资金，不断加强技术工人的培训和生产技术的改良，通过先进的技术质量和严谨的控管系统实现专业形象，奠定了海菱一流产品的坚实基础。

经过多年的默默耕耘和快速发展，公司近年来相继开发生产出了工业冷水机、螺杆冷水机、激光冷水机、PCB冷水机、超低温冷水机、UV固化专用冷水机、模具控温机、模具除露机、工业冷风机、工业冷冻机、工业多温机，冷热一体机、除湿干燥机等十余个系列近100多种工业制冷机械和工业控温设备。每种设备的推陈出新都是推动中国制造业向低碳、

高效、节约、方便、环保等全方位发展的利器。

海菱人锐意进取，以和为先，以德聚人，以诚聚心，以质取胜，重信守诺，赢得国内外新老客户的好评,使得海菱产品广泛的应用和服务于射出成型、导光板、连接器、DVD光碟、镁铝合金压铸、化工、电镀、印染、滚轮加温、反应釜、橡胶、五金、塑胶、电子、食品、纺织、包装、医药等行业。海菱人力争打造国内最具实力的工业制冷设备，工业温度控制设备及塑料机械周边设备的专业制造商。

海菱以科技创新，以人为本，积极向上、团结互助，勇于开拓，海菱人将以精湛的技术为您提供一流的服务，一流的品质。我们本着“诚信为本，客户至上，追求卓越，和谐共赢”的企业理念，永不满足，精益求精，制造出让客户满意的“海菱”系列产品。

展望未来，海菱人满怀信心，真诚希望能与各界业内朋友携手合作，共同发展，互利多赢，共创辉煌！

Shenzhen Hailingke Refrigeration Machinery Equipment Co., Ltd. Is a focus on industrial refrigeration equipment, industrial temperature control equipment and plastics machinery and peripheral equipment research and development, production, sales and service in one of the modern high-tech enterprises. From the inception of the company to determine the quality personnel to promote enterprise development strategy of continuous innovation, the past 10 years by gradually higher and technical personnel at home and abroad to expand the lead enterprise technology strength, the implementation of product development from the beginning designed in strict accordance with international standards and product development. The company currently has a sound manufacturing equipment, advanced detection system, independent of the processing, production processes, as well as a pioneering and innovative technical personnel, to constantly improve the quality of products provides a powerful guarantee. In order to meet the actual needs of different customers, the company has invested a lot of money, continue to strengthen the training of skilled workers and improving production technology to achieve a professional image through advanced technology and strict quality control systems, has laid a solid foundation Hailing class products .

After years of quietly and rapid development, the company in recent years, have been developed to produce industrial chillers, screw chillers, laser chiller, PCB chiller, ultra-low temperature chiller, UV curing dedicated chillers, mold temperature control machine, mold except dew, industrial chillers, industrial chillers, industrial multi-temperature machine, hot and cold one machine, desiccant dryer more than 10 series

of nearly 100 kinds of industrial refrigeration machinery and industrial temperature control equipment. Each device innovation is to promote China's manufacturing to low-carbon, efficient, economical, convenient and environmentally friendly all-round development of the weapon.

Hailing people forge ahead, and for the first, people gather to Germany, sincere implosion, quality, re-Connaught and win new and old customers at home and abroad, making Hailing wide range of products and services for injection molding applications , light guide, connector, DVD discs, magnesium alloy die-casting, chemical, electroplating, printing, roller heating, reactor, rubber, metal, plastic, electronics, food, textiles, packaging, pharmaceutical and other industries. Hailing the people and strive to create the most powerful industrial refrigeration equipment, industrial temperature control of a professional manufacturer of plastic machinery and equipment and peripherals.

Hailing to technological innovation, people-oriented, positive, solidarity, courage, Hailing people will be superb technology to provide you with first-class service, first-class quality. Our spirit of "honesty, customer first, the pursuit of excellence, harmony and win-win" business philosophy, never satisfied, excellence, manufacturing transfer of customer satisfaction, "Hailing" series.

Looking ahead, Hailing people with confidence, and sincerely hope to cooperate with all friends in the industry, common development, mutual win-win, create brilliant!



工业设备精确制冷技术 解决方案专家



凭质量发展，以技术创新。
高品质服务，创行业第一！

With the quality development, technology innovation.
High quality service, To be No.1 for our field.

CERTIFICATE 资质证书



CORPORATE CULTURE 企业文化

经营理念
持续创新，与客户共赢。

管理理念
顾客至上、安全第一；高效环保、节能降耗；
保障健康、全员参与、持续改进。

质量方针
以创新为核心，以质量和服务为保障，以诚信打造品牌。

价值观
以人为本、以质量为本、以服务为本。

品牌定位
一个值得全球人信赖的制冷设备民族品牌。

品牌战略
以质量、责任、服务树百年企业。

企业精神
团结，互助，开拓，创新，奋进。

Philosophy
Continuous innovation, win-win with customers.

Management philosophy
Customer first, safety first;
efficient and environmentally friendly, energy saving;
to protect the health, full participation, continuous improvement.

Quality
Innovation as the core, quality and service for the protection, brand integrity.

Values
People-oriented, quality-oriented, service-oriented.

Brand Positioning
A trust worthy person global refrigeration equipment national brands.

Brand Strategy
Quality, responsibility, service tree centuries enterprises.

Spirit
Solidarity, mutual aid, pioneering and innovative, progressive.





一流的生产设备
一流的产品
一流的服务
创造世界冷水机品牌

First-class production equipment
The first-class products
The first-class service
Create a world brand chiller



PRODUCTION WORKSHOP

生产车间



优质的产品是企业打入世界市场的强大武器。为创造至优至尊的产品，公司引进了先进生产线，通过优化工艺提高制造一流的产品，为创一流企业奠定了基础。

Quality products into the world market is a powerful business weapon. Extreme to create superior products, the company introduced advanced production lines, by optimizing the process to improve manufacturing first-class products, first-class enterprise foundation.





PRODUCTION WORKSHOP

生产车间



用心铸造高质量、高精度的工业设备，必须具备精湛的工艺，成熟的技术，严把加工过程中的每道关口，采用进口材料加工而成，使得生产时质量稳定，维修率极低，为求一流的产品应对激烈的市场竞争。

Intentions of casting quality, high precision industrial equipment, Must have superb technology, mature technology, strict process every road crossing, Using imported materials processing, making stable production quality, Repair rate is very low, for the sake of first-class products to deal with the fierce market competition.



AIR-COOLED
INDUSTRIAL
CHILLER

风冷型工业冷水机



SPECIAL FEATURES 功能特点

“海菱”牌系列工业冷水机可提供3-30度，特殊低温型更低至-25℃的冰水（温差不超过±1℃）。风冷式冷水机，制冷量从1316-156245Kcal/h(压缩机功率从0.5-60HP)，可广泛应用于各个行业，例如塑胶业中的注塑，吸塑，冷水机可以精确的控制塑胶成型模具温度以缩短成型周期，加速产品定型，使产品即不变形及缩水，还可以提高表面的光洁度，增强透视率；也适用于冷却数控机床，坐标镗床，磨床，加工中心，组合机床及各种精密机床的主轴润滑油和液压传动媒的冷却，能精确的控制油温，有效减少机床的热变形，提高机床的加工精度；另外也适用于电镀业，食品业漂染业等其它行业。

HLK brand series of industrial chillers are available 3-30 degrees, special low temperature below -25 ℃ to ice water (the temperature does not exceed±1℃). Air-cooled chiller, cooling capacity from 1316-156245Kcal / h (compressor power from 0.5-60HP), can be widely used in various industries, such as the plastics injection molding, plastic, chiller can be precisely controlled plastic mold temperature to shorten the molding cycle, accelerate product type, the product that is not deformed and shrink, but also can improve the surface finish, enhanced perspective rate; also suitable for cooling CNC machine tools, jig boring, grinding machines, machining centers, precision machine tools and various combinations machine tool spindle lubricating and hydraulic transmission media cooling, can accurately control oil, reduce the thermal deformation of the machine to improve machining accuracy; There is also applicable to other industries electroplating industry, food industry, dyeing industry.



SPECIFICATION TABLE 规格参数表

型号 Model			HL-01A	HL-02A	HL-03A	HL-04A	HL-05A	HL-06A	HL-08AD	HL-10AD
参数 Parameters										
制冷量 Cooling capacity	KW/hr	50HZ	2.94	5.67	8.39	10.90	13.95	16.90	21.80	28.01
		60HZ	3.44	6.63	9.82	12.75	16.32	19.77	25.50	32.78
	Kcal	50HZ	2528	4872	7216	9347	11990	14560	18748	24089
		60HZ	2958	5701	8442	10698	14028	17000	21935	28184
温控范围 Temperature range			3℃~常温（0℃以下可定制） 3℃ - Room temperature (Below 0℃ can be customized)							
电源 Power supply			1N-220V 50HZ / 60HZ				3N-380V/415V 50HZ/60HZ			
总功率 Total power	KW		1.27	2.02	2.85	3.65	4.86	5.61	7.65	9.90
压缩机 Compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll type or piston							
	功率 KW		0.75	1.50	2.20	3.00	3.75	4.50	6.00	7.50
风机 Blower	风量 M³/h		1000	2000	3000	4000	5000	6000	8000	10000
	功率 KW		0.14	0.14	0.28	0.28	0.36	0.36	0.9	0.9
冷凝器 condensator	形式 Form		高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin							
	水量 M³/h		0.51	0.97	1.44	1.87	2.40	2.91	3.75	4.82
蒸发器 Evaporator	水容量 M³		0.028	0.040	0.050	0.050	0.065	0.065	0.13	0.18
	进出水管径 G		G1/2"	G1/2"	G3/4"	G3/4"	G1"	G1"	G1-1/2"	G2"
	功率 KW		0.37	0.37	0.37	0.37	0.75	0.75	0.75	1.5
循环泵 Circulating pump	扬程 m		22	22	22	22	23	23	23	21.5
	L/mm		680	800	800	800	800	1045	1330	1330
机器尺寸 Machine size	W/mm		420	480	600	600	600	555	725	725
	H/mm		720	850	1190	1190	1190	1160	1330	1330
	KG		60	90	130	140	170	210	270	350

型号 Model			HL-12AD	HL-15AD	HL-20AD	HL-25AD	HL-30AD	HL-40AD	HL-50AD	HL-60AD
参数 Parameters										
制冷量 Cooling capacity	KW/hr	50HZ	33.79	44.15	59.08	71.72	87.20	113.58	135.49	181.68
		60HZ	39.53	51.65	69.12	83.91	102.02	132.89	158.52	218.02
	Kcal	50HZ	29059	37965	50805	61683	74992	97675	116521	156249
		60HZ	33969	44419	59442	72169	87741	114280	136330	187499
温控范围 Temperature range			3℃~常温（0℃以下可定制） 3℃ - Room temperature (Below 0℃ can be customized)							
电源 Power supply			3N-380V/415V 50HZ/60HZ							
总功率 Total power	KW		11.40	13.70	18.80	22.75	28.50	37.10	46.20	55.20
压缩机 Compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll type or piston							
	功率 KW		9.00	11.00	15.00	18.75	22.00	30.00	37.50	45.00
风机 Blower	风量 M³/h		12000	15000	20000	25000	30000	40000	50000	60000
	功率 KW		0.9	1.2	1.6	1.8	2.5	3.1	4.7	4.7
冷凝器 condensator	形式 Form		高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin							
	水量 M³/h		5.81	7.60	10.16	12.34	15.20	19.53	23.30	30.52
蒸发器 Evaporator	水容量 M³ /h		0.18	0.21	0.28	0.32	0.32	0.61	0.66	0.72
	进出水管径 G		G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"	G3"	G3"
	功率 KW		1.5	1.5	2.2	2.2	4.0	4.0	4.0	5.5
循环泵 Circulating pump	扬程 m		21.5	21.5	22	22	25	25	25	26
	L/mm		1550	1550	1760	1970	2000	1900	2400	2400
机器尺寸 Machine size	W/mm		750	750	860	900	1130	1500	1450	1450
	H/mm		1460	1460	1560	1700	1660	1700	1700	1700
	KG		370	480	590	790	880	1000	1280	1420

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、风冷机组必须安装在通风良好的地方（如室外、楼顶），同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12 ℃, the water temperature of 7 ℃, evaporation temperature 2 ℃, condensing temperature 50 ℃, dry bulb 35 ℃, wet bulb 24 ℃; 2, when the ambient temperature is below 2 ℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4, Performance specifications are subject to change due to product improvements without notice 5, the system requires the use of soft water in order to avoid damage to the laser.

WATER-COOLED INDUSTRIAL CHILLER

水冷式工业冷水机



SPECIAL FEATURES 功能特点

“海菱”牌系列工业冷水机可提供3-30℃，特殊低温型更低至-25℃冰水（温差不超过±1℃）。水冷式冷水机，制冷量从8251-170383kcal/h（压缩机功率从3-60HP），可广泛应用于各行业。例如塑胶业中的注塑，吸塑，冷水机可以精确的控制塑胶成型模具温度以缩短成型周期，加速产品定型，使产品既不变形及缩水，还可以提高表面的光洁度，增强透视率；也适用于冷却数控机床，坐标镗做，磨床，加工中心，组合机床及各种精密机床的主轴润滑油和液压传动媒的冷却，能精确的控制油温，有效减少机床的热变形，提高机床的加工精度；另外也适用于电镀业、食品业及漂染业等其他行业。

HLK brand series of industrial chillers are available 3-30 ℃, special low temperature as low as -25 ℃ ice water (temperature does not exceed±1℃). Water-cooled chiller, cooling capacity from 8251-170383kcal / h (compressor power from 3-60HP), can be widely used in various industries. For example in the plastics injection molding, plastic, chillers can precisely control the temperature of the plastic mold to shorten the molding cycle, accelerate product type, the product is neither deformation and shrink, but also can improve the surface finish, enhanced perspective rate; also applies cooling CNC machine tools, coordinate boring to do, grinding machines, machining centers, the combination of a variety of precision machine tools and machine tool spindle lubricating and hydraulic transmission media cooling, can accurately control oil, reduce the thermal deformation of the machine to improve the machining accuracy; There is also applicable to other industries electroplating industry, food industry and dyeing industries.



SPECIFICATION TABLE 规格参数表

型号 Model			HL-03W	HL-04W	HL-05W	HL-06W	HL-08WD	HL-10WD	HL-12WD
参数 Parameters									
制冷量 Cooling capacity	KW/hr	50HZ 60HZ	9.59 11.22	12.43 14.54	15.91 18.32	19.18 22.45	24.85 29.08	31.83 37.24	38.37 44.89
	Kcal	50HZ 60HZ	8251 9654	10682 12498	13690 16018	16503 19308	21370 25009	27370 32023	32994 38603
温控范围 Temperature range			3℃-常温（0℃以下可定制） 3℃ - Room temperature (Below 0℃ can be customized)						
电源 Power supply			3N-380V/415V 50HZ/60HZ						
总功率 Total power	KW		2.575	3.375	4.50	5.25	6.75	9.00	10.50
压缩机 Compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll type or piston						
	功率 KW		2.20	3.00	3.75	4.50	6.00	7.50	9.00
冷凝器 Condensator	形式 Form		高效铜管壳管式 Efficient copper tube shell and tube type						
	水量 M³/h		2.06 2.41	2.67 3.12	3.42 4.00	4.13 4.83	5.34 6.25	6.85 8.01	8.24 9.64
	进出水管径 G		G3/4"	G3/4"	G1"	G1"	G1-1/2"	G1-1/2"	G2"
蒸发器 Evaporator	水量 M³/h		1.65 1.93	2.14 2.50	2.75 3.20	3.30 3.86	4.27 5.00	5.47 6.40	6.59 7.72
	水容量 M³		0.050	0.050	0.058	0.058	0.150	0.150	0.150
	进出水管径 G		G3/4"	G3/4"	G1"	G1"	G1-1/2"	G2"	G2"
循环泵 Circulating pump	功率 KW		0.375	0.375	0.75	0.75	0.75	1.5	1.5
	扬程 m		22	22	23	23	23	21.5	21.5
机器尺寸 Machine size	L/mm		850	850	850	1080	1200	1200	1200
	W/mm		480	480	480	550	610	610	610
	H/mm		980	980	980	1000	1260	1260	1260
机组重量 Unit weight	KG		120	140	150	200	210	290	310

型号 Model			HL-15WD	HL-20WD	HL-25WS	HL-30WS	HL-40WS	HL-50WS	HL-60WS
参数 Parameters									
制冷量 Cooling capacity	KW/hr	50HZ 60HZ	50.14 58.66	67.14 78.56	81.53 85.39	99.19 116.05	129.06 151.00	153.91 180.07	198.12 237.75
	Kcal	50HZ 60HZ	43120 50451	57748 67565	70120 82040	85303 99805	110984 129851	132359 154860	170383 204460
温控范围 Temperature range			3℃-常温（0℃以下可定制） 3℃ - Room temperature (Below 0℃ can be customized)						
电源 Power supply			3N-380V/415V 50HZ/60HZ						
总功率 Total power	KW		12.50	17.20	20.95	26.00	34.00	41.50	50.50
压缩机 Compressor	类型 Type		全封闭涡旋式或活塞式 Hermetic scroll type or piston						
	功率 KW		11.00	15.00	18.75	22.00	30.00	37.50	45.00
冷凝器 condensator	形式 Form		高效铜管壳管式 Efficient copper tube shell and tube type						
	水量 M³/h		10.78 12.61	14.44 16.90	17.54 20.52	21.32 24.94	27.74 32.46	33.09 38.72	41.6 49.93
	进出水管径 G		G2"	G2"	G2-1/2"	G2-1/2"	G3"	G3"	G3"
蒸发器 Evaporator	水量 M³/h		8.62 10.09	11.55 13.52	14.03 16.41	17.06 19.96	22.19 25.97	26.48 30.98	33.28 39.94
	水容量 M³		0.285	0.300	0.380	0.380	0.560	0.560	0.610
	进出水管径 G		G2"	G2"	G2-1/2"	G2-1/2"	G2-1/2"	G3"	G3"
循环泵 Circulating pump	功率 KW		1.5	2.2	2.2	4.0	4.0	4.0	5.5
	扬程 m		21.5	22	22	25	25	25	26
机器尺寸 Machine size	L/mm		1460	1750	1750	1750	2200	2200	2280
	W/mm		700	760	760	760	920	920	1000
	H/mm		1400	1500	1500	1500	1600	1600	1700
机组重量 Unit weight	KG		400	440	690	760	850	1000	1190

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度40℃； 2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀； 3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12 ℃, the water temperature of 7 ℃, evaporation temperature 2 ℃, condensing temperature 40 ℃; 2, when the ambient temperature is below 2 ℃ or for long periods when in use, the machine should be ranked in the net water to prevent frost brass; 3, due to product improvement performance specifications are subject to change without notice.

INDUSTRIAL CHILLERS

工业冷风机



SPECIAL FEATURES 功能特点

冷风机是本公司专门针对无铅波峰焊，回流焊而设计的一款低温气冷式的制冷机，具有外表美观，体积小，性能优异，品质可靠，价值合理等优势。海菱牌风冷式工业冷风机具有上吹风和下吹风两种机型（具体出风口位置可根据用户要求以及用户使用的具体条件而定），处理风量从150-8000m³/h，风压达到200-1200pa，出风温度-5至+8℃，风速可达32m/s，基本上可以满足各类机型的要求。

Cooler is the company specifically for lead-free wave soldering, reflow and the design of a low-temperature gas-cooled chiller, with beautiful appearance, small size, high performance, reliable quality, reasonable value of other advantages. Hailing brand air-cooled industrial chiller has the hair and hair under two models (the specific location of the outlet according to user requirements and user-specific conditions may be), air volume from 150-8000m³ / h, pressure reached 200-1200pa, the air temperature -5 — + 8 ℃, wind speed up to 32m / s, basically meet the requirements of various models.



SPECIFICATION TABLE 规格参数表

参数 Parameters		型号 Model	HL-01BS	HL-02BS	HL-03BS	HL-04BS	HL-05BS	HL-06BS	HL-08BS
制冷量 Cooling capacity	KW/hr	50HZ	2.94	5.67	8.39	10.90	13.95	16.90	21.80
		60HZ	3.44	6.63	9.82	12.75	16.32	19.77	25.50
温控范围 Temperature range			3℃-常温（0℃以下可定制） 3℃ - Room temperature (Below 0℃ can be customized)						
电源 Power supply	Voit		1N-220V 50HZ/60HZ		3N-380V/415 50HZ/60HZ				
制 冷 剂 Refrigerant	R		R22/R407c/R410A						
总输入功率 Total input power	KW		0.94	1.73	2.57	3.48	4.31	5.11	7.65
压缩机功率 Compressor power	KW		0.75	1.50	2.20	3.00	3.75	4.50	6.00
冷 风 量 Cold wind	M³/h		180	280	370	510	800	1100	1560
冷 风 压 Cold wind pressure	pa		125	340	340	520	520	700	780
风机功率 Fan power	KW		0.045	0.09	0.09	0.20	0.20	0.25	0.75
冷却风量 Cooling air flow	M³/h		1000	2000	3000	4000	5000	6000	8000
风机功率 Fan power	KW		0.145	0.14	0.28	0.28	0.36	0.36	0.90
出风管径 Diameter wind	mm		Φ76	Φ90	Φ100	Φ100	Φ125	Φ125	Φ160
机器尺寸 Machine size	L/mm		680	800	800	800	800	1045	1330
	W/mm		420	480	600	600	600	555	725
	H/mm		720	850	1190	1190	1190	1160	1330

参数 Parameters		型号 Model	HL-10BS	HL-12BS	HL-15BS	HL-20BS	HL-25BS	HL-30BS	HL-40BS
制冷量 Cooling capacity	KW/hr	50HZ	28.01	33.79	44.15	59.08	71.71	87.2	113.58
		60HZ	32.78	39.53	51.65	69.12	83.91	102.0	132.89
温控范围 Temperature range			3℃~常温（0℃以下可定制） 3℃ - Room temperature (Below 0℃ can be customized)						
电源 Power supply	Voit	3N-380V/415 50HZ/60HZ							
制 冷 剂 Refrigerant	R	R22/R407c/R410A							
总输入功率 Total input power	KW	9.90	11.40	13.70	18.80	22.59	5.11	7.65	
压缩机功率 Compressor power	KW	7.50	9.00	11.00	15.00	18.75	22.00	30.00	
冷 风 量 Cold wind	M³/h	2300	2750	3360	4100	4400	5400	6900	
冷 风 压 Cold wind pressure	pa	890	1000	1000	1000	1000	1000	1000	
风机功率 Fan power	KW	1.50	1.50	1.50	2.20	2.20	3.00	4.00	
冷却风量 Cooling air flow	M³/h	10000	12000	15000	20000	25000	30000	40000	
风机功率 Fan power	KW	0.90	0.90	1.20	1.60	1.64	2.40	3.60	
出风管径 Diameter wind	mm	Φ159	Φ159	Φ159	Φ200	Φ200	Φ250	Φ300	
机器尺寸 Machine size	L/mm	1330	1550	1550	1760	1970	2000	1900	
	W/mm	725	750	750	860	900	1130	1500	
	H/mm	1330	1460	1460	1560	1700	1660	1700	

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、风冷机组必须安装在通风良好的地方（如室外、楼顶），同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, evaporation temperature 2℃, condensing temperature 50℃, dry bulb 35℃, wet bulb 24℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4, Performance specifications are subject to change due to product improvements without notice 5, the system requires the use of soft water in order to avoid damage to the laser.

LASER CHILLERS

激光冷水机



SPECIAL FEATURES 功能特点

适用于激光雕刻机，激光焊接机，激光喷码机，激光切割机等光加工设备的研发，生产，加工；各种PCB钻床，磨床。制冷系统原件均采用国际品牌原件，无盘管纯不锈钢材料水箱，具有持久稳定的制冷效果，温度控制精度为±0.1℃；带超高、低湿度显示及信号输出保护，配置常开和常闭输出以供选择；冷冻水循环系统采用不锈钢多级水泵，系统采用不锈钢或PVC材料连接，无锈蚀之忧，可直接使用纯净水或去离子水；配置出水压力显示表，方便调节压力及流量；带流量保护装置，当水量过少时自动断开激光机电源，阻止激光因缺少冷却过热；采用自主开发，并由知名厂商OEM生产的电子温控，双位数字显示，有多种设定和故障显示功能，只需一键操作(开关键)，其他的均有由记忆功能自动实现；机器装有可移动脚轮，方便安装使用；静电喷塑外壳，欧化设计，美观大方，外表采用快速拆装形式，方便使用和维护；海菱激光冷水机正是基于此因，根据激光，PCB设备的特点和要求而设计的专用冷水机组，是激光、PCB行业不可缺少的良伴。

For laser engraving machine, laser welding machines, laser inkjet printer, laser cutting machine, and so light processing equipment research and development, production, processing; various PCB drilling machines, grinding machines. Cooling System components are used in international brand originals, diskless pure stainless steel pipe water tank, a lasting and stable cooling effect, temperature control accuracy of ± 0.1 ℃; with high, low humidity display and signal output protection, configuration normally open and normally closed output to choose from; frozen water system made of stainless steel multi-stage pumps, systems made of stainless steel or PVC material connection, no rust worries, you can use pure water directly or deionized water; the water pressure display table configuration, easy to adjust pressure and flow; with flow protection device automatically disconnects when the water is too low laser power, laser due to lack of cooling prevents overheating; using self-developed by well-known manufacturers of electronic thermostat OEM production, and double-digit display, a variety of settings and fault display function, just one button operation (open key), others are automatically implemented by the memory function; the machine is equipped with a removable casters for easy installation; electrostatic spray enclosure, Europeanization design, elegant appearance by rapid disassembly form ease of use and maintenance; Hailing laser Chiller based on this result, dedicated chiller according to the characteristics and requirements of the laser, PCB equipment and design, laser, PCB industries indispensable companion.



SPECIFICATION TABLE 规格参数表

型号 Model			HL-01A	HL-02A	HL-03A	HL-04A	HL-05A	HL-06A	HL-08AD	HL-10AD
参数 Parameters										
制冷量 Cooling capacity	KW/hr	50HZ 60HZ	2.94 3.44	5.67 6.63	9.82 8.39	10.90 12.75	13.95 16.32	16.90 19.77	21.80 25.50	28.01 32.78
	Kcal	50HZ 60HZ	2528 2958	4872 5701	7216 8442	9347 10698	11990 14028	14560 17000	18748 21935	24089 28184
温控范围 Temperature range	3℃-常温（0℃以下可定制） 3℃ - Room temperature (Below 0℃ can be customized)									
电源 Power supply	1N-220V 50HZ/60HZ					3N-380V/415 50HZ/60HZ				
总功率 Total power	KW		1.27	2.02	2.85	3.65	4.86	5.61	7.65	9.90
压缩机 Compressor	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston								
	功率 KW		0.75	1.50	2.20	3.00	3.75	4.50	6.00	7.50
风机 Fan	风量 M³/h		1000	2000	3000	4000	5000	6000	8000	10000
冷凝器 Condenser	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin								
蒸发器 Evaporator	水量 M³/h		0.51	0.97	1.44	1.87	2.40	2.91	3.75	4.82
	水容量 M³/h		0.028	0.040	0.050	0.050	0.065	0.065	0.13	0.18
	进出水管径 G		G1/2 "	G1/2 "	G3/4 "	G3/4 "	G1 "	G1 "	G1-1/2 "	G2 "
循环泵 Circulating pump	功率 KW		0.375	0.375	0.375	0.375	0.75	0.75	0.75	1.5
	扬程 m		24	24	24	24	29	29	29	23
机器尺寸 Machine size	L/mm		680	800	800	800	800	1045	1330	1330
	W/mm		420	480	600	600	600	555	725	725
	H/mm		720	850	1190	1190	1190	1160	1330	1330
机组重量 Unit Weight	KG		60	90	130	140	170	210	270	350

型号 Model			HL-12AD	HL-15AD	HL-20AD	HL-25AD	HL-30AD	HL-40AD	HL-50AD	HL-60AD
参数 Parameters										
制冷量 Cooling capacity	KW/hr	50HZ 60HZ	33.79 39.53	44.15 51.65	59.8 69.12	71.72 83.91	87.20 102.02	113.58 132.89	135.49 158.52	181.68 218.02
	Kcal	50HZ 60HZ	29059 33999	37965 44419	50805 59442	61683 72169	74992 87741	97675 114280	116521 136330	156249 187499
温控范围 Temperature range	3℃-常温（0℃以下可定制） 3℃ - Room temperature (Below 0℃ can be customized)									
电源 Power supply	3N-380V/415 50HZ/60HZ									
总功率 Total power	KW		11.70	13.70	18.76	22.55	27.80	37.60	45.10	55.00
压缩机 Compressor	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston								
	功率 KW		9.00	11.00	15.00	18.75	22.00	30.00	37.50	45.00
风机 Fan	风量 M³/h		12000	15000	20000	25000	30000	40000	50000	60000
冷凝器 Condenser	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin								
蒸发器 Evaporator	水量 M³/h		5.81	7.60	10.16	12.34	15.20	19.53	23.30	30.52
	水容量 M³/h		0.18	0.21	0.28	0.32	0.32	0.61	0.66	0.72
	进出水管径 G		G2 "	G2 "	G2 "	G2-1/2 "	G2-1/2 "	G3 "	G3 "	G3 "
循环泵 Circulating pump	功率 KW		1.5	1.5	2.2	2.2	4.0	4.0	4.0	5.5
	扬程 m		23	23	22	22	25	25	25	26
机器尺寸 Machine size	L/mm		1550	1550	1760	1970	2000	1900	2400	2400
	W/mm		750	750	860	900	1130	1500	1450	1450
	H/mm		1460	1460	1560	1700	1160	1700	1700	1700
机组重量 Unit Weight	KG		370	480	590	790	880	1000	1280	1420

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、风冷机组必须安装在通风良好的地方（如室外、楼顶），同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, evaporation temperature 2℃, condensing temperature 50℃, dry bulb 35℃, wet bulb 24℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4. Performance specifications are subject to change due to product improvements without notice 5, the system requires the use of soft water in order to avoid damage to the laser.

INDUSTRIAL
COLD OIL
MACHINE

工业冷油机



SPECIAL FEATURES 功能特点

本公司推出的（海菱）牌冷油机系列适用于冷却数控机床，座标镗床，磨床、加工中心，组合机床及各种精密机床的主轴润滑油和液压传动油的冷却，能精确的控制油温，有效减少机床的热变形，提供机床的加工精度。海菱工业油冷却机是利用冷媒的蒸发吸热原理进行冷却工作的，油泵从机床油箱抽取油液至制冷系统中进行热交换处理，冷却后的液压油再经油冷机出油管路回到机床油箱中，通过油液的连续循环工作使整个油的油温持续下降。

The company launched the (Hailing) brand cold oil machine for cooling CNC machine tools, cooling jig boring, grinding machines, machining centers, the combination of a variety of precision machine tools and machine tool spindle lubricating and hydraulic transmission of oil, can precisely control oil, effectively reduce the thermal deformation of the machine to provide the machining accuracy. Hailing industrial oil cooler is the use of Freon cooling evaporation endothermic principle work, the pump Extracting oil from the machine tank back to the refrigeration system heat exchange process, the cooled hydraulic oil through the oil cooler and then a tank drain line machine, so that the oil temperature throughout the oil by the continuous circulation of the working oil continued to decline.



SPECIFICATION TABLE 规格参数表

参数 Parameters		型号 Model	HL-01AO	HL-02AO	HL-03AO	HL-04AO	HL-05AO	HL-06AO	HL-08AO	HL-10AO
制冷量 Cooling capacity	KW/hr	50HZ	2.94	5.67	8.39	10.90	13.95	16.90	21.80	28.01
	Kcal	60HZ	3.44	6.63	9.82	12.75	16.32	19.77	25.50	32.78
		50HZ	2528	4872	7216	9347	11990	14560	18748	24089
		60HZ	2958	5701	8442	10698	14028	17000	21935	28184
温控范围 Temperature range	10℃-常温（0℃以下可定制） 10℃ - Room temperature (Below 0℃ can be customized)									
电源 Power supply	1N-220V 50HZ/60HZ					3N-380V/415 50HZ/60HZ				
总输入功率 Total input power	KW		1.27	2.02	2.85	3.65	4.86	5.61	7.65	9.90
压缩机功率 Compressor	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston								
	KW		0.75	1.50	2.20	3.00	3.75	4.50	6.00	7.50
风机风量 Fan flow	风量 M³/h		1000	2000	3000	4000	5000	6000	8000	10000
冷凝器 Condenser	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin								
蒸发器 Evaporator	油量 M³/h		0.59	1.14	1.68	2.19	2.81	3.41	4.39	5.64
	油容量 M³/h		0.025	0.036	0.045	0.045	0.056	0.056	0.12	0.15
	进出油管径 G		G1/2 "	G1/2 "	G3/4 "	G3/4 "	G1 "	G1 "	G1-1/2 "	G2 "
循环泵 Circulating pump	功率 KW		0.375	0.375	0.375	0.375	0.75	0.75	0.75	1.5
	扬程 m		26	26	26	26	34	34	34	34
机器尺寸 Machine size	L/mm		680	800	800	800	800	1045	1330	1330
	W/mm		420	480	600	600	600	555	725	725
	H/mm		720	850	1190	1190	1190	1160	1330	1330
机组重量 Unit Weight	KG		60	90	130	140	170	210	270	350

参数 Parameters		型号 Model	HL-12ADO	HL-15ADO	HL-20ADO	HL-25ADO	HL-30ADO	HL-40ADO	HL-50ADO	HL-60ADO
制冷量 Cooling capacity	KW/hr	50HZ	33.79	44.15	59.08	71.72	87.20	113.58	135.49	181.68
	Kcal	60HZ	39.53	51.65	69.12	83.91	102.02	132.89	158.52	218.02
		50HZ	29059	37965	50805	61683	74992	97675	116521	156249
		60HZ	33999	44419	59442	72169	87741	114280	136330	187499
温控范围 Temperature range	10℃-常温（0℃以下可定制） 10℃ - Room temperature (Below 0℃ can be customized)									
电源 Power supply	3N-380V/415 50HZ/60HZ									
总功率 Total power	KW		11.70	13.70	18.76	22.55	27.80	37.60	45.10	55.00
压缩机 Compressor	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston								
	功率 KW		9.00	11.00	15.00	18.75	22.00	30.00	37.50	45.00
风机 Fan	风量 M³/h		12000	15000	20000	25000	30000	40000	50000	60000
冷凝器 Condenser	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin								
蒸发器 Evaporator	油量 M³/h		6.80	8.89	11.89	14.44	17.55	22.85	29.27	36.63
	油容量 M³/h		0.155	0.181	0.24	0.28	0.28	0.53	0.58	0.62
	进出油管径 G		G2 "	G2 "	G2 "	G2-1/2 "	G2-1/2 "	G3 "	G3 "	G3 "
循环泵 Circulating pump	功率 KW		1.5	1.5	2.2	2.2	4.0	4.0	4.0	5.5
	扬程 m		34	34	26	26	34	34	34	36
机器尺寸 Machine size	L/mm		1550	1550	1760	1970	2000	1900	2400	2400
	W/mm		750	750	860	900	1130	1500	1450	1450
	H/mm		1460	1460	1560	1700	1660	1700	1700	1700
机组重量 Unit Weight	KG		370	480	590	790	880	1000	1280	1420

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、风冷机组必须安装在通风良好的地方（如室外、楼顶），同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, evaporation temperature 2℃, condensing temperature 50℃, dry bulb 35℃, wet bulb 24℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4, Performance specifications are subject to change due to product improvements without notice 5, the system requires the use of soft water in order to avoid damage to the laser.

HIGH & LOW TEMPERATURE CONTROLLER

高低温精准控温机



High & low Temperature controller
高低温精准控温机



SPECIAL FEATURES 功能特点

高低温精准控温机用于：高、低温的可靠性试验。对电子电工、汽车摩托、航空航天、橡胶、塑胶、金属、船舶兵器、高等院校、科研单位等相关产品的零部件及材料在高、低温变化的情况下，检验其各项性能指标。机组可在-25℃~高温42℃环境下精准运行，出液控温范围-60℃~+160℃。

- ◆ 箱体采用数控机床加工成型，造型美观大方。
- ◆ 精选美国谷轮、法国泰康原装进口压缩机，噪音小、能耗低、运行稳，不仅节电且使用寿命长。
- ◆ 用国内知名品牌不锈钢板式蒸发器、螺纹铜管壳管式冷凝器，换热效率高，维护方便。
- ◆ 机组制冷辅件均采用美国ALCO、丹麦Danfoss等知名品牌。
- ◆ 控温的微电脑中文数字显示控制面板，控温精度达到±0.1℃，RS485通讯功能，实现自动化管理（选购）。
- ◆ 保护装置：压缩机延时启动器、过载器、高低压器、超温开关、防冻开关、熔断塞等，可长时间确保机组正常运行。

High & low Temperature controller is used for: high and low temperature reliability test. For the parts and materials of related products such as electronic and electrical, automobile and motorcycle, aerospace, rubber, plastic, metal, ship weapons, universities, scientific research units, etc., in the case of high and low temperature changes, test their performance indicators. The unit can operate accurately in the environment of -25℃ - high temperature 42℃, the temperature range of the liquid discharge -60℃ ~ +160℃.

- ◆ The box body is machined and formed by CNC machine tool, and the shape is beautiful and generous.
- ◆ The selected American Copeland and France Taikang imported compressors have low noise, low energy consumption and stable operation, which not only saves electricity but also has a long service life.
- ◆ The domestic famous brand stainless steel plate evaporator and threaded copper tube tube condenser are selected, which has high heat exchange efficiency and convenient maintenance.
- ◆ The refrigeration accessories of the unit are all well-known brands such as ALCO of the United States and Danfoss of Denmark.
- ◆ The temperature-controlled microcomputer Chinese digital display control panel has a temperature control accuracy of ±0.1℃, RS485 communication function, and automatic management (optional).
- ◆ Protection device: compressor delay starter, overload device, high and low voltage device, over temperature switch, antifreeze switch, fuse plug, etc., can ensure the normal operation of the unit for a long time.

SPECIFICATION TABLE 规格参数表

参数		型号	HL05W-6CH	HL06W-06CH	HL10W-12CH	HL12W-12CH	HL15W-18CH	HL20W-24CH
制冷量 Cooling capacity	-0℃ (KW/hr)		13.2	15.8	26.4	31.6	39.6	63.2
	-0℃ (Kcal)		11352	13588	22704	27176	34056	54352
	-25℃(KW/hr)		5.2	6.3	10.4	12.6	15.8	20.5
	-25℃(Kcal)		4472	5418	8944	10836	13588	17630
	-40℃(KW/hr)		2.6	3.3	5.2	6.6	8.1	10.3
	-40℃(Kcal)		2236	2838	4472	5676	6966	8858
制热量 Heating	KW/hr		6.0	6.0	12.0	12.0	18.0	24.0
	Kcal		5160	5160	10320	10320	15480	20640
温控范围 Temperature control range			-40℃ ~ +100℃ (±0.1℃) (其它温度可定制)					
制冷剂 Refrigerant			R404A					
载冷剂 Coolant			乙二醇溶液/硅油					
电源 Power supply			3N~380V/415~50HZ					
总功率 Total power	KW		10.85	11.6	21.0	24.0	32.25	32.0
压缩机 Compressor	类型		全封闭涡旋式或活塞式					
	功率KW		3.75	4.5	7.50	9.00	11.25	15.00
冷凝器 Condenser	水量M3/h		3.42	4.13	6.85	8.24	10.78	14.44
	进出水管径		G1 "	G1-1/2 "	G2 "	G2 "	G2 "	G2 "
蒸发器 Evaporator	类型		不锈钢板式换热器					
	进出水管径		G1 "	G1 "	G1-1/2 "	G1-1/2 "	G1-1/2 "	G2 "
储冷箱 Cold storage box	水容量L		30	30	50	50	60	60
冷循环泵 Cold circulation pump	功率KW		1.1	1.1	1.5	3.0	3.0	3.0
	流量L/min		50~90	50~90	60~120	100~200	100~200	130~240
	压力Mpa		0.35~0.4	0.35~0.4	0.42~0.6	0.6~0.8	0.6~0.8	0.5~0.63
机器尺寸 Machine size	L/mm		1200	1200	1460	1460	1750	1750
	W/mm		610	610	700	700	760	760
	H/mm		1260	1260	1400	1400	1500	1500
机组重量 Unit weight	KG		290	360	430	500	700	830

WATER-COOLED
TEMPERATURE
CONTROLLER

风冷式冷热一体温度控温机



SPECIAL FEATURES 功能特点

风冷式冷热一体温度控制机，本公司根据制药反应釜控温等化工工业新近推出ACH型冰热两用机，在高低温、高精度控温领域有着广泛的用途。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），加热功率切换功能，304不锈钢一体管路，减少管阻及锈垢，采用进口高级组件，使用年限长，电器采用施耐德、欧姆龙、佳乐等进口材料。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。HL-20ACH以上采用两组压缩机头，可单独或共同使用，温度控制范围：出水温度+3-80℃。

Water-cooled Temperature Controller, the company recently launched ACH-type dual-purpose machine ice hot reactor temperature, etc. according to the pharmaceutical and chemical industries, in high and low temperature, high-precision temperature control field has a wide range of uses. Europe and America imported compressor head, brass welding method using anaerobic. RS485 communication function for automated management (optional), heating power switching function, 304 stainless steel integrated pipelines for less pipe resistance and rust, the use of imported components, life is long, Schneider Electric, Omron, Squeak and other imported materials. Imported microcomputer control or PLC control (optional). Perfect safety protection, fault display, without professional maintenance, high efficiency evaporator and condenser, can save more than 30% energy. HL-20ACH head above uses two compressors can be used separately or jointly, the temperature control range: water temperature + 3-80℃.

SPECIFICATION TABLE 规格参数表

参数 Parameters	型号 Model	HL-05A-9CH	HL-08A-18CH	HL-10A-24CH	HL-12A-30CH	HL-15A-36CH	HL-20A-48CH	HL-25A-60CH	HL-30A-80CH
制冷量 Cooling capacity	KW/hr	13.95	21.80	28.10	33.79	44.15	59.08	71.72	87.20
	Kcal	11990	18748	24089	29059	37965	50805	61683	74992
制热量 Heating Capacity	KW/hr	9	18	24	30	36	48	60	80
	Kcal	7740	15480	20640	25800	30960	41280	51600	68800
温控范围 Temperature range	5℃-100℃（±0.1℃）（其它温度可定制）5℃-100℃（±0.1℃）(other temperatures can be customized)								
电源 Power supply	3N-380V/415 50HZ/60HZ								
总功率 Total power	KW	14.41	26.75	34.25	42.50	51.05	67.60	85.35	109.50
	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston							
压缩机 Compressor	功率 KW	3.75	6.00	7.50	9.00	11.25	15.00	18.75	22.50
	风量 M³/h	5000	8000	10000	12000	15000	20000	25000	30000
风机 Fan	功率 KW	0.36	0.90	0.90	0.90	1.20	1.60	2.20	2.60
	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin							
蒸发器 Evaporator	水量 M³/h	2.40	3.75	4.81	5.81	7.60	10.16	12.34	15.00
	水容量 M³	0.51	0.12	0.16	0.16	0.24	0.25	0.28	0.30
	进出水管径 G	G1"	G1"	G1"	G1-1/4"	G1-1/4"	G1-1/2"	G2"	G2"
冷循环泵 Cold circulating pump	功率 KW	0.55	0.75	0.75	1.10	1.10	1.50	2.20	2.20
	扬/m	26	25	25	27	24	23	23	23
热循环泵 Heat circulating pump	功率 KW	0.75	1.10	1.10	1.50	1.50	1.50	2.20	2.20
	流量 M³/h	3.90	6.00	6.00	10.00	10.00	11.00	12.00	12.00
	扬程 m	32	31	31	31	31	31	31	31
机器尺寸 Machine size	L/mm	1045	1330	1330	1550	1550	1760	1970	1970
	W/mm	555	725	725	750	750	860	900	900
	H/mm	1160	1330	1330	1460	1460	1560	1700	1700
机组重量 Unit Weight	KG	290	450	520	660	790	910	1100	1200

参数 Parameters	型号 Model	HL-05A-9CHS	HL-08A-18CHS	HL-10A-24CHS	HL-12A-30CHS	HL-15A-36CHS	HL-20A-48CHS	HL-25A-60CHS	HL-30A-80CHS
制冷量 Cooling capacity	KW/hr	13.95	21.80	28.10	33.79	44.15	59.08	71.72	87.20
	Kcal	11990	18748	24089	29059	37965	50805	61683	74992
制热量 Heating Capacity	KW/hr	4.5+4.5	9+9	12+12	15+15	18+18	24+24	30+30	40+40
	Kcal	7740	15480	20640	25800	30960	41280	51600	68800
温控范围 Temperature range	5℃-100℃（±0.1℃）（其它温度可定制）5℃-100℃（±0.1℃）(other temperatures can be customized)								
电源 Power supply	3N-380V/415 50HZ/60HZ								
总功率 Total power	KW	15.16	27.85	35.35	43.60	52.55	69.10	87.55	111.70
	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston							
压缩机 Compressor	功率 KW	3.75	6.00	7.50	9.00	11.25	15.00	18.75	22.50
	风量 M³/h	5000	8000	10000	12000	15000	20000	25000	30000
风机 Fan	功率 KW	0.36	0.90	0.90	0.90	1.20	1.60	2.20	2.60
	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin							
蒸发器 Evaporator	水量 M³/h	2.40	3.75	4.81	5.81	7.60	10.16	12.34	15.00
	水容量 M³	0.51	0.12	0.16	0.16	0.24	0.25	0.28	0.30
	进出水管径 G	G1"	G1"	G1"	G1-1/4"	G1-1/4"	G1-1/2"	G2"	G2"
冷循环泵 Cold circulating pump	功率 KW	0.55	0.75	0.75	1.10	1.10	1.50	2.20	2.20
	扬/m	26	25	25	27	24	23	23	23
热循环泵 Heat circulating pump	功率 KW	0.75X2	1.10X2	1.10X2	1.10X2	1.50X2	1.50X2	2.20X2	2.20X2
	流量 M³/h	3.90X2	6.00X2	6.00X2	6.00X2	10.00X2	11.00X2	12.00X2	12.00X2
	扬程 m	32X2	31X2	31X2	31X2	31X2	31X2	31X2	31X2
机器尺寸 Machine size	L/mm	1045	1330	1330	1550	1550	1760	1970	1970
	W/mm	555	725	725	750	750	860	900	900
	H/mm	1160	1330	1330	1460	1460	1560	1700	1700
机组重量 Unit Weight	KG	410	580	670	830	980	1110	1260	1390

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、风冷机组必须安装在通风良好的地方（如室外、楼顶），同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, evaporation temperature 2℃, condensing temperature 50℃, dry bulb 35℃, wet bulb 24℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4, Performance specifications are subject to change due to product improvements without notice 5, the system requires the use of soft water in order to avoid damage to the laser.

AIR-COOLED
TEMPERATURE
CONTROLLER

水冷式冷热一体温度控温机



SPECIAL FEATURES 功能特点

水冷式冷热一体温度控制机，本公司根据制药反应釜控温等化工工业新近推出WCH型冰热两用机，在高低温、高精度控温领域有着广泛的用途。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），加热功率切换功能，304不锈钢一体管路，减少管阻及锈垢，采用进口高级组件，使用年限长，电器采用施耐德、欧姆龙、佳乐等进口材料。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。HL-20WCH以上采用两组压缩机头，可单独或共同使用，温度控制范围：出水温度+3-80℃。

Air-cooled Temperature Controller, the company recently launched WCH-type dual-purpose machine ice hot reactor temperature, etc. according to the pharmaceutical and chemical industries, in high and low temperature, high-precision temperature control field has a wide range of uses. Europe and America imported compressor head, brass welding method using anaerobic. RS485 communication function for automated management (optional), heating power switching function, 304 stainless steel integrated pipelines for less pipe resistance and rust, the use of imported components, life is long, Schneider Electric, Omron, Squeak and other imported materials. Imported microcomputer control or PLC control (optional). Perfect safety protection, fault display, without professional maintenance, high efficiency evaporator and condenser, can save more than 30% energy. HL-20WCH head above uses two compressors can be used separately or jointly, the temperature control range: water temperature + 3-80℃.



SPECIFICATION TABLE 规格参数表

参数 Parameters	型号 Model	HL-05W-9CH	HL-08W-18CH	HL-10W-24CH	HL-12W-30CH	HL-15W-36CH	HL-20W-48CH	HL-25W-60CH	HL-30W-80CH
制冷量 Cooling capacity	KW/hr	15.91	24.85	31.83	38.37	50.14	67.14	81.53	99.19
	Kcal	13690	21370	27370	32994	43120	57748	70120	85303
制热量 Heating Capacity	KW/hr	9	18	24	30	36	48	60	80
	Kcal	7740	15480	20640	25800	30960	41280	51600	68800
温控范围 Temperature range	5℃-100℃（±0.1℃）（其它温度可定制）5℃-100℃（±0.1℃）(other temperatures can be customized)								
电源 Power supply	3N-380V/415 50HZ/60HZ								
总功率 Total power	KW	14.05	25.85	33.35	41.60	49.85	66.00	83.15	106.90
	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston							
压缩机 Compressor	功率 KW	3.75	6.00	7.50	9.00	11.25	15.00	18.75	22.50
	水量 M³/h	3.42	5.34	6.85	8.24	10.78	14.44	17.54	21.32
冷凝器 Condenser	进出水管径 G	G1"	G1-1/2"	G1-1/2"	G2"	G2"	G2"	G2-1/2"	G2-1/2"
	水量 M³/h	2.75	4.27	5.47	6.59	8.62	11.55	14.03	17.06
蒸发器 Evaporator	水容量/M³	0.05	0.11	0.15	0.15	0.22	0.24	0.26	0.28
	进出水管径 G	G1"	G1"	G1"	G1-1/4"	G1-1/4"	G1-1/2"	G2"	G2"
冷循环泵 Cold circulating pump	功率 KW	0.55	0.75	0.75	1.10	1.10	1.50	2.20	2.20
	扬程m	26	25	25	27	24	23	23	23
热循环泵 Heat circulating pump	功率 KW	0.75	1.10	1.10	1.50	1.50	1.50	2.20	2.20
	流量 M³/h	3.90	6.00	6.00	10.00	10.00	11.00	12.00	12.00
机器尺寸 Machine size	扬/m	32	31	31	31	31	31	31	31
	L/mm	1000	1460	1460	1460	1750	1800	1800	1800
	W/mm	550	700	700	700	760	800	800	800
	H/mm	1080	1400	1400	1400	1500	1500	1500	1500
机组重量 Unit Weight	KG	270	430	490	600	700	830	1000	1100

参数 Parameters	型号 Model	HL-05W-9CHS	HL-08W-18CHS	HL-10W-24CHS	HL-12W-30CHS	HL-15W-36CHS	HL-20W-48CHS	HL-25W-60CHS	HL-30W-80CHS
制冷量 Cooling capacity	KW/hr	15.91	24.85	31.83	38.37	50.14	67.14	81.53	99.19
	Kcal	13690	21370	27370	32994	43120	57748	85303	85303
制热量 Heating Capacity	KW/hr	4.5+4.5	9+9	12+12	15+15	18+18	24+24	30+30	40+40
	Kcal	7740	15480	20640	25800	30960	41280	51600	68800
温控范围 Temperature range	5℃-100℃（±0.1℃）（其它温度可定制）5℃-100℃（±0.1℃）(other temperatures can be customized)								
电源 Power supply	3N-380V/415 50HZ/60HZ								
总功率 Total power	KW	14.80	26.95	34.45	42.30	51.35	67.50	85.35	109.10
	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston							
压缩机 Compressor	功率 KW	3.75	6.00	7.50	9.00	11.25	15.00	18.75	22.50
	水量 M³/h	3.42	5.34	6.85	8.24	10.78	14.44	17.54	21.32
冷凝器 Condenser	进出水管径 G	G1"	G1-1/2"	G1-1/2"	G2"	G2"	G2"	G2-1/2"	G2-1/2"
	水量 M³/h	2.75	4.27	5.47	6.59	8.62	11.55	14.03	17.06
蒸发器 Evaporator	水容量/M³	0.05	0.11	0.15	0.15	0.22	0.24	0.26	0.28
	进出水管径 G	G1"	G1"	G1"	G1-1/4"	G1-1/4"	G1-1/2"	G2"	G2"
冷循环泵 Cold circulating pump	功率 KW	0.55	0.75	0.75	1.10	1.10	1.50	2.20	2.20
	扬程m	26	25	25	27	24	23	23	23
热循环泵 Heat circulating pump	功率 KW	0.75X2	1.10X2	1.10X2	1.10X2	1.50X2	1.50X2	2.20X2	2.20X2
	流量 M³/h	3.90X2	6.00X2	6.00X2	6.00X2	10.00X2	11.00X2	12.00X2	12.00X2
机器尺寸 Machine size	扬/m	32X2	31X2	31X2	31X2	31X2	31X2	31X2	31X2
	L/mm	1200	1460	1460	1460	1750	1800	1800	1800
	W/mm	610	700	700	700	760	800	800	800
	H/mm	1260	1400	1400	1400	1500	1500	1500	1500
机组重量 Unit Weight	KG	380	540	630	780	920	1020	1160	1260

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度40℃； 2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀； 3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, evaporation temperature 2℃, condensing temperature 40℃; 2, when the ambient temperature is below 2℃ or for long periods when in use, the machine should be ranked in the net water to prevent frost brass; 3, due to product improvement performance specifications are subject to change without notice.

VAPOR RECOVERY UNIT

蒸汽回收机



SPECIAL FEATURES 功能特点

使用蒸汽回收机除能大幅节约燃料和软化水以外,还有以下优点:

- ◆ 大幅减少了锅炉补水量和补水次数,减小了泵的功率消耗,改善水泵的运行条件。
- ◆ 由于蒸汽回收机回收的凝结水压力和温度高,输送到锅炉后, 锅炉产生蒸汽的时间缩短,且压力稳定。
- ◆ 锅炉补水温度提高,可减少系统的氧腐蚀;同时所补凝结水为纯净的蒸馏水,可减少锅炉及整个管道系统的锈蚀及积垢。
- ◆ 消除了因排放废蒸汽和凝结水到集水箱集水池而产生的二次蒸汽。在使用蒸汽回收机前的生产厂区, 由于凝结水的再蒸发和废蒸汽的存在,厂区内大多热气弥漫。工作环境恶劣,给工厂设备维修管理带来不良影响。实行凝结水回收后,生产现场的环境可得到大大改善。
- ◆ 采用高强度耐磨材料的新型专利止回阀,结构紧凑,维修简单,噪音小,且完全克服了普通止回阀在高温高压介质中高频启闭容易损坏的特点。
- ◆ 蒸汽回收机是蒸汽冷凝水回收系统的关键设备,可广泛运用于造纸、化工、食品、制药、粮油加工、橡胶、棉纺、印染、木业及其他行业的工业企业的有蒸汽供热系统的蒸汽冷凝水闭式回收,亦可用于宾馆、医院及其民用建筑的蒸汽冷凝水回收, 它能方便有效的将蒸汽间接换热系统产生的蒸汽冷凝水改为闭式回收,是常规传统开式回收冷凝水箱的更新换代产品。

Using a vapor recovery unit in addition to significant savings in fuel and demineralized water outside, as well as the following advantages:

- ◆ significantly reducing the amount of water and water boilers up times, reduced pump power consumption and improve the operating conditions of the pump.
- ◆ Due to the vapor recovery unit recovering condensate pressure and high temperature, fed to the boiler, the boiler steam to reduce the time and pressure stability.
- ◆ The boiler water temperature increases, the system can reduce the oxygen corrosion; while the patch is pure distilled water condensate can reduce boiler corrosion and fouling, and the entire pipeline system.
- ◆ Elimination of the secondary steam emissions due to waste steam and condensate collection tank sump generated. In the production plant to use steam before recycling machine, due to the presence of condensate re-evaporation and waste steam heat plant in the region are mostly filled. Poor working conditions, adverse effects on plant equipment maintenance management. After the implementation of condensate recovery, the production site to obtain greatly improved environment.
- ◆ The use of high strength wear-resistant material new patented valve, compact structure, easy maintenance, low noise, and completely overcome the common medium of high temperature and pressure valve open and close easily damaged high frequency characteristics.
- ◆ Vapor recovery machine is the key equipment of steam condensate recovery system can be widely used in papermaking, chemical, food, pharmaceutical, grain processing, rubber, cotton spinning, dyeing, wood and other sectors of industrial enterprises have steam heating system steam closed condensate recovery, can be used for hotels, hospitals and civil steam condensate recovery, steam condensate can be convenient and effective indirect heat exchange system to produce steam to closed recycling, recycling is routine traditional open condensate tank replacements.

Vapor recovery unit 蒸汽回收机



SPECIFICATION TABLE 规格参数表

参数 Parameters		型号 Model	HL-04A	HL-05A	HL-06A	HL-08A	HL-10A	HL-12A	HL-15AD	HL-20AD
制冷量 Cooling capacity	KW/hr	50HZ 60HZ	10.90 12.75	13.95 16.32	16.90 19.77	21.80 25.50	28.01 32.78	33.79 39.53	44.15 51.65	59.08 69.12
	Kcal	50HZ 60HZ	9347 10698	11990 14028	14560 17000	18748 21935	24069 28184	29059 33999	37965 44419	50805 59442
蒸汽温度 Steam temperature		110~125℃								
冷凝回收量 Condensate recovery		L/min	2.3	3.0	3.8	4.6	6.0	7.6	9.0	12.0
冷却温控范围 Cooled control range		25℃~38℃ (其它温度可定制) 25℃~38℃ (other temperature can be customized)								
电源 Power supply		3N-380V/415 50HZ/60HZ								
总功率 Total power		KW	4.02	4.99	6.31	8.65	10.50	12.30	15.35	20.26
压缩机 Compressor	类型	全封闭涡旋式或活塞式 Hermetic scroll type or piston								
	功率 KW		3.00	3.75	4.50	6.00	7.50	9.00	11.25	15.00
换热风机 Heat exchange air machine	风量 M³/h		6800	9200	12600	17000	19500	23500	26100	30000
	功率 KW		0.36	0.50	0.90	1.20	1.35	1.65	1.80	2.16
换热器 Heat Exchanger		类型	高效铜管套波纹管型铝翅片 Efficient brass sets corrugated aluminum fin							
换热器 Heat Exchanger		类型	不锈钢板式换热器 Stainless steel plate heat exchanger							
冷却风机 Cooling fan	风量 M³/h		4000	5000	6000	8000	10000	12000	15000	20000
	功率 KW		0.28	0.36	0.36	0.90	0.90	0.90	1.20	1.60
冷冻水 Chilled water	水量 M³/h		1.87	2.40	2.91	3.75	4.82	5.81	7.60	10.16
	水容量/M³		0.50	0.65	0.80	0.10	0.12	0.15	0.20	0.24
	进出水管径 G		G3/4"	G3/4"	G1"	G1"	G1-1/4"	G1-1/4"	G1-1/2"	G1-1/2"
循环泵 Circulating pump	功率 KW		0.375	0.375	0.55	0.55	0.75	0.75	1.10	1.50
	扬程 m		22	22	22	22	22	22	22	22
机器尺寸 Machine size	L/mm		1000	1100	1220	1320	1750	1800	2000	2000
	W/mm		640	690	750	800	760	850	900	900
	H/mm		1200	1250	1250	1350	1500	1600	1800	1800
机组重量 Unit Weight		KG	320	360	450	550	680	760	860	980

备注: 1、表中制冷量标定工况: 冷冻水进水温度为12℃, 出水温度为7℃, 蒸发温度2℃, 冷凝温度50℃, 干球35℃, 湿球24℃; 2、当外界环境温度低于2℃或长期不使用时, 应排净机器内积水, 以防铜管冻胀; 3、风冷机组必须安装在通风良好的地方(如室外、楼顶), 同时保证风道系统畅通无阻; 4、规格性能会因产品改良有所变动, 恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, evaporation temperature 2℃, condensing temperature 50℃, dry bulb 35℃, wet bulb 24℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4, Performance specifications are subject to change due to product improvements without notice 5, the system requires the use of soft water in order to avoid damage to the laser.

DEFOGGER
MACHINE

除露机



SPECIAL FEATURES 功能特点

海菱牌模具除露机系列主要使用于解决在塑胶成型中由于模具使用冷冻水来缩短成型时间而结露的问题，特别是PET瓶坯射出成型时，限制水份在模具表面凝结而开发的产品，结露现象是当模具表面温度低于周围环境空气的露点同时就会产生，它会影响到产品品质及生产效率，同时会腐蚀模具表面而造成环境污染。该品种机型采用冷冻除湿再加热的方式，可以产生2-8℃的露点空气，确保模具周围始终维持低露点空气的环境，不让模具产生结露现象，也不受季节变化的影响。

Hailing brand mold except when exposed machine is mainly used in solving the plastic molding die due to the use of chilled water to shorten the molding time and condensation problems, particularly PET preform injection molding, the mold surface to limit moisture condensation developed products, condensation is when the mold surface temperature is below the dew point of the ambient air at the same time it will have, it will affect the product quality and production efficiency, and it will corrode the mold surface and cause environmental pollution. The breed type reheating frozen dehumidification mode, you can produce 2-8 °C dew point of the air, and to ensure that the mold is always around to maintain a low dew point air environment, prevent mold produce condensation, also subject to seasonal changes.

Defogger machine
除露机



SPECIFICATION TABLE 规格参数表

型号 Model		HL-3	HL-5	HL-8	HL-10	HL-15	HL-20	
风量 Amount of wind	M³/h	700	1150	1700	2400	3000	3600	
出风口静风压 outlet static pressure	Pa	500						
出风温度 Air temperature	℃	25-30						
出风相对湿度 Out of wind humidity	%	30-45						
出风露点温度 out wind dew point temperature	℃	2-8						
电源 Power supply	3N-380V-50HZ							
制冷量 Cooling capacity	KW	9.4	15.7	24.6	32.5	36.5	48.5	
除湿量 Dehumidification capacity	Kg/h	12	20	30	40	50	60	
总输出功率 Total Output Power	KW	2.5	4.2	6.9	9.3	15.6	18.75	
压缩机功率 Compressor power	KW	2.2	3.75	5.5	7.5	9.0	11.25	
风机功率 Fan power	KW	0.4	0.75	1.5	2.2	5.5	7.5	
冷却水量（10℃） Cooling water	M³/h	3	5	7	9	12	15	
冷却水管径 Cooling water caliber	mm	25	38	38	50	50	63	
凝结水管径 Condensate diameter	mm	15	15	15	25	25	25	
出风口管径 out of air pipe diameter	mm	125	159	159	159	159	159	
外形尺寸 outline dimension	长 Length	mm	850	890	920	1250	1250	1450
	宽 Width	mm	850	890	890	1250	1250	1450
	高 Height	mm	1400	1500	1500	1698	1698	1885
重量 Weight	Kg	120	175	200	250	400	600	

备注：1、表中制冷量标定工况：冷冻水进水温度为10℃，出水温度为15℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、机组必须安装在通风良好的地方，同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 10 °C, the water temperature is 15 °C, condensing temperature 50 °C, dry bulb 35 °C, wet bulb 24 °C; 2, when the ambient temperature is below 2 °C or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the unit must be installed in a well-ventilated place, while ensuring smooth air duct system; 4. Performance specifications are subject to change due to product improvement without notice.

WATER-TYPE
MOLD
TEMPERATURE

水式模温机



Water-type mold temperature
水式模温机



SPECIFICATION TABLE 规格参数表

模型 Model		单位 Unit	HL06SW	HL09SW	HL12SW	HL18SW	HL12SS	HL18SS	HL24SS
加热能力 Heating capacity		KW	6	9	12	18	6+6	9+9	12+12
输入功率 Input Power		KW	6.37	9.75	12.75	19.5	12.75	19.5	25.5
温控范围 Temperature range		℃	35-120(单系统) 35-120 (single system)				35-120(双系统) 35-120 (dual system)		
电源 Power supply			3N-380V/415V 50HZ				3N-380V/415V 50HZ		
冷却方式 Cooling method			直接冷却 Direct cooling				直接冷却 Direct cooling		
传热媒体 Heat transfer media			水 Water				水 Water		
冷却水配管 Cooling water pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2
循环水配管 Circulating water piping		Inch	3/8X2	3/8X4	3/8X4	3/8X4	3/8X4	3/8X4	3/8X4
泵浦功率 Pump power		KW	0.37	0.75	0.75	1.5	0.37X2	0.75X2	0.75X2
泵浦扬程 Pump head		Kpa	240	300	300	380	240X2	300X2	300X2
泵浦工作流量 Work flow pump		L	28	38	38	45	28X2	38X2	38X2
警报功能 Alarm function			缺相 / 缺水 / 超温 / 过载 Phase/water/over-heat/overload						
外形尺寸 outline dimension	长 Length	mm	520	560	560	750	660	660	660
	宽 Width	mm	235	260	260	310	460	460	460
	高 Height	mm	520	550	550	540	660	660	660
重量 Weight		Kg	46	51	60	85	82	96	108

备注：1、表中热量标定工况：循环进水温度为95℃，出水温度为100℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防钢管冻胀；3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, Table heat Calibration conditions: circulating water temperature is 95 ℃, the water temperature of 100 ℃; 2, when the ambient temperature is below 2 ℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, due to product improvement performance specifications are subject to change without notice.

SPECIAL FEATURES 功能特点

温度控制精确，温度波动不超过设定温度值的+/-0.5℃，快速加热，减少启动时间，优化能源消耗，采用精确的温度控制，设计小巧紧凑，使安装定位快速而便捷，能方便对所有部件进行维修操作。

- ◆ 电脑触摸式控制，操作简单易懂。
- ◆ 日本进口微电脑双组P.I.D温度控制表，触摸式内储、自动演算，省电35%以上。
- ◆ 安全保护及故障指示系统完善。
- ◆ 进口高级组件，使用年限长。
- ◆ 升降温速度快，温度精确稳定。
- ◆ 温度控制范围：进水温度45-120℃。
- ◆ 独特的加热设计，适合不同温控场所使用，节能效果明显。
- ◆ 不锈钢一体成型，管损小，加热均匀。
- ◆ 开机自动排气功能。
- ◆ 模具回水温度检测表。

Precise temperature control, temperature fluctuations do not exceed the set temperature value +/- 0.5℃, rapid heating, reducing start-up time, optimize energy consumption, using precise Temperature control, compact design makes installation quick and easy positioning, to facilitate maintenance operations for all components.

- ◆ computer touch control, easy to operate and easy to understand.
- ◆ Japanese imports microcomputer dual PID temperature control table, touch type storage, automatic calculation, saving more than 35%.
- ◆ security protection and fault indication system.
- ◆ imported components, life is long.
- ◆ heating and cooling speed, temperature accuracy and stability.
- ◆ Temperature control: water temperature 45-120℃.
- ◆ unique power heats up the design, suitable for different places to use temperature control, energy-saving effect.
- ◆ stainless steel body shape, pipe small donation, add cooked evenly.
- ◆ boot automatically exhaust function.
- ◆ mold backwater temperature detection table.

OIL TYPE
MOLD
TEMPERATURE

油式模温机



SPECIAL FEATURES 功能特点

- 温度控制精确，温度波动不超过设定温度值的 $\pm 0.5^{\circ}\text{C}$ ，热稳定性好，但需媒介成本，有油污，热传导效率不如水温机，本公司最新研制的机型，采用进口的板式日交换机，具有机构紧凑，升降温速度快，控温精确的特点。
- ◆ 电脑触摸式控制，操作简单易懂。
 - ◆ 日本进口微电脑双组PID温度控制表，触摸式内储、自动演算，省电35%以上。
 - ◆ 安全保护及故障指示系统完善。
 - ◆ 进口高级组件，使用年限长。
 - ◆ 升降温速度快，温度精确稳定。
 - ◆ 温度控制范围：进油温度 $45\sim 200^{\circ}\text{C}$ 。
 - ◆ 独特的加热设计，适合不同温控场所使用，节能效果明显。
 - ◆ 不锈钢一体成型，管损小，加热均匀。
 - ◆ 开机自动排气功能。
 - ◆ 模具回油温度检测表。

- Precise temperature control, temperature fluctuations do not exceed the set temperature value $\pm 0.5^{\circ}\text{C}$, good thermal stability, but need the media cost, oil, hot water machine as efficient as preachers, the latest development of the model, the use of imported day switch plate, with a compact body, heating and cooling fast, precise temperature control features.
- ◆ computer touch control, easy to operate and easy to understand.
 - ◆ Japanese imports microcomputer dual PID temperature control table, touch type storage, automatic calculation, saving more than 35%.
 - ◆ security protection and fault indication system.
 - ◆ imported components, life is long.
 - ◆ heating and cooling speed, temperature accuracy and stability.
 - ◆ Temperature control: water temperature $45\sim 200^{\circ}\text{C}$.
 - ◆ unique power heats up the design, suitable for different places to use temperature control, energy-saving effect.
 - ◆ stainless steel body shape, pipe small donation, add cooked evenly.
 - ◆ boot automatically exhaust function.
 - ◆ die back to the oil temperature detection table.

Oil type mold temperature
油式模温机



SPECIFICATION TABLE 规格参数表

模型 Model	单位 Unit	HL06YW	HL09YW	HL12YW	HL18YW	HL12YS	HL18YS	HL24YS
加热能力 Heating capacity	KW	6	9	12	18	6+6	9+9	12+12
输入功率 Input Power	KW	6.37	9.75	12.75	19.5	12.75	19.5	25.5
温控范围 Temperature range	$^{\circ}\text{C}$	45-200(单系统) 45-200 (single system)				45-200(双系统) 45-200 (dual system)		
电源 Power supply		3N-380V/415V 50HZ				3N-380V/415V 50HZ		
冷却方式 Cooling method		间接冷却 Indirect cooling				间接冷却 Indirect cooling		
传热媒体 Heat transfer media		导热油 Conduction oil				导热油 Conduction oil		
冷却水配管 Cooling water pipe	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2
循环水配管 Circulating water piping	Inch	3/8X2	3/8X4	3/8X4	3/8X4	3/8X4	3/8X4	3/8X4
泵浦功率 Pump power	KW	0.37	0.75	0.75	1.5	0.37X2	0.75X2	0.75X2
泵浦扬程 Pump head	Kpa	240	300	300	380	240X2	300X2	300X2
工作流量 Work flow	L	28	38	38	45	28X2	38X2	38X2
警报功能 Alarm function		缺相 / 缺油 / 超温 / 过载 Lack of phase/lack of oil/over-heat/overload						
外形尺寸 outline dimension	长 Length	mm	520	560	560	750	660	660
	宽 Width	mm	235	260	260	310	460	460
	高 Height	mm	520	550	550	540	660	660
重量 Weight	Kg	48	53	62	87	85	99	110

备注：1、表中热量标定工况：循环进油温度为 175°C ，出油温度为 180°C ；2、当外界环境温度低于 2°C 或长期不使用时，应排净机器内积水，以防铜管冻胀；3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, Table heat Calibration conditions: circulation into the oil temperature is 175°C , the oil temperature of 180°C ; 2, when the ambient temperature is below 2°C or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, due to product improvement performance specifications are subject to change without notice.

HOT WATER
TYPE MOLD
TEMPERATURE

高温水式模温机



SPECIAL FEATURES 功能特点

超高温水温机：水温机是以导热油作为媒介的模温机。他也可以称作水加热器、水温加热器、水循环控温机。适用于塑胶成型，导光板、压铸，挤、押出，橡胶轮胎、滚轮、化工、反应釜、粘合、密炼等各行各业。不平均或不适当的模具温度会导致铸件尺寸不稳定，在生产过程中顶出铸件变形，产生热压力、黏模、表面凹陷、内缩孔及热泡等缺陷。

描述：水式模温机、水温机。水循环温度控制机、模温机、模具温度控制机、水加热器

- ◆ 管路防爆装置
- ◆ 吹气回水功能
- ◆ 回水温度显示表
- ◆ 开机自动排气功能
- ◆ 加热功率切换功能
- ◆ 即时冷却关机功能(选购)
- ◆ 隔离式电器控制箱，延长电器使用年限
- ◆ RS485通讯功能，实现自动化管理.(选购)
- ◆ 热水BY-PASS泄压回路
- ◆ 多点温度控制机组可订作
- ◆ 水泵马力和加热功率可订作
- ◆ 温度控制范围：进水温+45℃~180℃
- ◆ 控制方式：采用进口微电脑或(选购)PLC控制
- ◆ 304不锈钢一体管路，减少管阻及锈垢
- ◆ 安全保护完善，故障显示，维修，保养无需专业人员

Ultra-high temperature water temperature machine: water temperature machine is a heat transfer oil as a medium mold temperature machine. He can also be called water heater, water temperature heater, water cycle temperature control machine. Applicable to plastic molding, light guide plate, die casting, extrusion, extrusion, rubber tires, roller, chemical, reactor, bonding, mixing and other industries. Uneven or inappropriate mold temperature can lead to instability in the size of the casting, deformation of the casting in the production process, resulting in hot pressure, viscose, surface depression, shrinkage and heat bubbles and other defects.

Description: Water-based mold temperature machine, water temperature machine. Water cycle temperature control machine, mold temperature machine, mold temperature control machine, water heater

- ◆ pipeline explosion-proof equipment
- ◆ inflatable backwater function
- ◆ the return temperature display table
- ◆ boot automatic exhaust function
- ◆ the heating power switching function
- ◆ instant cooling-off function (optional)
- ◆ isolated electrical control box, to extend the life of appliances
- ◆ RS485 communication function for automated management (optional)
- ◆ hot BY-PASS relief loop
- ◆ multi-point temperature control unit can be set for
- ◆ the pump horsepower and heating power for
- ◆ the temperature control range: incoming water + 45 °C → 180 °C
- ◆ the control mode: imported microcomputer or (optional) PLC control
- ◆ 304 stainless steel integrated pipelines for less pipe resistance and rust
- ◆ Perfect safety protection, fault display, repair and maintenance without professionals

Hot water type mold temperature
高温水式模温机



SPECIFICATION TABLE 规格参数表

模型 Model		单位 Unit	HLWH-10	HLWH-20	HLWH-30	HLWT-10	HLWT-20	HLWT-30
温控范围 Temperature range		℃	45-150			45-180		
温控精度 Temperature Accuracy			PID ± 1℃					
电源 Power supply			3N-380V 50HZ(3phase+Earth)					
冷却方式 Cooling method			间接冷却 Indirect cooling					
传热媒体 Heat transfer media			间接冷却 Indirect cooling					
加热能力 Heating capacity		kw	9	12	24	9	12	24
泵浦马力 Pump horsepower		hp	1	2	3	1	2	3
泵浦工作流量 Work flow pump		l/min	95	153	235	95	153	235
系统最大压力 System Max stress		kg/cm2	6	6	6	12	12	12
最大电力消耗 Largest power consumption		kw	10	14	26	12	14	26
冷却水配管 Cooling water pipe		Inch	1/2	1/2	1/2	1/2	1/2	1/2
循环水配管 Circulating water piping		Inch	3/4X4	3/4X4	3/4X4	3/4X4	3/4X4	3/4X4
警报功能 Alarm function		缺相 / 缺水 / 超温 / 过载 / 溢水 / 加热异常报警 Phase/water/over-heat/abnormal alarm overload/water/heat						
外形尺寸 outline dimension	长 Length	mm	700	700	1000	700	700	1000
	宽 Width	mm	360	360	420	360	360	420
	高 Height	mm	815	815	1100	845	845	1100
重量 Weight		Kg	75	85	95	82	92	100

备注：1、表中热量标定工况：循环进油温度为175℃，出油温度为180℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, Table heat Calibration conditions: circulation into the oil temperature is 175 °C, the oil temperature of 180 °C; 2, when the ambient temperature is below 2 °C or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, due to product improvement performance pecifications are subject to change without notice.

HOT OIL
TYPE MOLD
TEMPERATURE

高温油式模温机



SPECIAL FEATURES 功能特点

超高温油温机：油温机是以导热油作为媒介的模温机。他也可以称作油加热器、油温加热器、油循环控温机。适用于塑胶成型，导光板、压铸，挤、押出，橡胶轮胎、滚轮、化工、反应釜、粘合、密炼等各行各业。特别是在镁合金，铝合金的制造中效果尤其突出。不均匀或不适当的模具温度会导致铸件尺寸不稳定，在生产过程中顶出铸件变形，产生热压力、黏模、表面凹陷、内缩孔及热泡等缺陷。

- ◆ 管路防爆装置
 - ◆ 油泵反抽回油功能
 - ◆ 回油温度显示
 - ◆ 开机自动排气功能
 - ◆ 加热功率切换功能
- ◆ 及时冷却关机功能
 - ◆ 隔离式电器控制箱，延长电器使用年限
 - ◆ RS485通讯功能，实现自动化管理（选购）
 - ◆ 多点温度控制机组可定作
 - ◆ 油泵马力和加热功率可定作
- ◆ 温度控制范围：进水温度45~350℃
 - ◆ 不锈钢一体管路，减少管阻及锈垢
 - ◆ 控制方式：采用进口微电脑或（选购）PLC控制
 - ◆ 安全保护完善，故障显示，维修、保养无需专业人员

Ultra-high temperature oil temperature machine: oil temperature machine is a heat transfer oil as a medium mold temperature machine. He can also be called oil heater, oil temperature heater, oil cycle temperature control machine. Applicable to plastic molding, light guide plate, die casting, extrusion, extrusion, rubber tires, roller, chemical, reactor, bonding, mixing and other industries. Especially in the magnesium alloy, aluminum alloy manufacturing effect is particularly prominent. Uneven or inappropriate mold temperature can lead to instability in the size of the casting, deformation of the casting in the production process, resulting in hot pressure, viscose, surface depression, shrinkage and heat bubbles and other defects.

- ◆ The pipeline explosion-proof equipment
 - ◆ Pump counter oil return function
 - ◆ The return oil temperature display
 - ◆ boot automatically exhaust function
 - ◆ The heating power switching function
 - ◆ timely cooling-off function
 - ◆ isolated electrical control box, to extend the life of appliances
- ◆ RS485 communication function for automated management (optional)
 - ◆ multi-point temperature control unit can be set for
 - ◆ horsepower pump and heating power set for
 - ◆ the temperature control range: 45-350 °C water temperature
 - ◆ stainless steel integrated pipelines for less pipe resistance and rust
 - ◆ the control mode: imported microcomputer or (optional) PLC control
 - ◆ Perfect safety protection, fault display, repair and maintenance without professionals

Hot oil type mold temperature
高温油式模温机



SPECIFICATION TABLE 规格参数表

模型 Model		单位 Unit	HLDC-18	HLDC-36	HLDC-48	HLDM-18	HLDM-36	HLDM-48
温控范围 Temperature range		℃	45-350					
温控精度 Temperature Accuracy			PID ± 1℃					
电源 Power supply			3N-380V 50HZ(3phase+Earth)					
传热媒体 Heat transfer media			导热油 Heat Transfer Oil					
冷却方式 Cooling method			间接冷却 Indirect cooling					
冷却功率 Cooling power		KW	30	30	30	30	30	30
膨胀箱容量 Tympanites tank capacity		L	25	25	30	42	42	50
加热能力 Heating capacity		KW	9X2	15X2	20X2	18+18	30+30	40+40
泵浦功率 Pump power		KW	0.55	1.10	2.80	0.55+0.55	1.10+1.10	2.8+2.8
泵浦工作流量 Work flow pump		M³/h	20	40	60	20+20	40+40	60+60
泵浦工作压力 Working pressure pump		Kg/cm²	2.0	2.0	2.8	2.0+2.0	2.0+2.0	2.8+2.8
最大电力消耗 Largest power consumption		KW	19.0	25.0	52.0	38.0	52.0	104.0
冷却水配管 Cooling water pipe		Inch	1/2	1/2	1/2	3/4	3/4	3/4
循环水配管 Circulating water piping		Inch	3/4	3/4	1	3/4X2	3/4X2	1X2
特殊功能 Special features		泵浦反转回油 Pump reverse return oil						
警报功能 Alarm function		缺相 / 缺油 / 超温 / 过载 / 溢油 / 加热异常报警 Lack of phase/short/overtemperature/overload/oil spill abnormal alarm/heat						
外形尺寸 outline dimension	长 Length	mm	1250	1250	1450	1450	1350	1435
	宽 Width	mm	420	420	500	500	550	600
	高 Height	mm	1100	1100	1350	1250	1250	1350

备注：1、表中热量标定工况：循环进油温度为345℃，出油温度为350℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, Table heat Calibration conditions: circulation into the oil temperature is 345 °C, the oil temperature of 350 °C; 2, when the ambient temperature is below 2 °C or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, due to product improvement performance specifications are subject to change without notice.

AIR-COOLED
SCREW UNIT

风冷型螺杆机组



SPECIAL FEATURES 功能特点

- ◆ 风冷螺杆机组是以空气为冷热源，以水为供冷热介质，作为冷热源兼用型的一体化控温设备。机组以其高效、低噪音、结构合理、操作简单、运行安全、安装维护方便等优点，而广泛应用于宾馆、商场、办公楼、展览馆、机场、体育馆等公共设施，并能满足电子、制药、生物、轻纺、化工、冶金、电力、机械等行业的控温系统的不同使用要求。
- ◆ 机组设计与制造严格按照国家行业标准，精选世界名牌压缩机、风机、冷媒控制元件。通过合理及系统匹配设计，使机组能够在-10℃以上气温条件下有效运行换热，产品适用于水资源缺乏区域，对冬季气温相对较低且无锅炉或其他供热条件的地区尤为适用。
- ◆ 机组采用高效换热器与先进、特殊的外形结构设计及系统。机组可直接安装于屋顶或室外其他通风条件好的地方，无需另设机房，可节省建筑空间。保护齐全，机组均设有温度保护开关、过载继电器、高低压安全开关、三相保护器、防冻开关及延时启动等保护装置，确保主机安全、可靠运行。外形精巧、美观，机组采用“W”型盘管设计，空间利用率高，机组外形尺寸小，以适应户外恶劣气候条件，确保机组在使用寿命周期内具有良好的运行效果。

- ◆ Air-cooled screw unit is as a heat source, for hot and cold water as the medium, as a heat source dual-purpose integrated temperature control equipment. Units with high efficiency, low noise, reasonable structure, simple operation, safe, easy installation and maintenance, etc., and is widely used in hotels, shopping malls, office buildings, exhibition halls, airports, stadiums and other public facilities, and to meet the electronics, pharmaceuticals Different use of biological, textile, chemical, metallurgy, electricity, machinery and other industries temperature control systems.
- ◆ Design and Manufacturing unit in strict accordance with the national industry standard, featuring world famous compressor, fan, refrigerant control components. Reasonable and system matching design, the unit can at temperatures above -10 °C under conditions effective operation of the heat exchanger, the product is suitable for water-scarce regions, winter temperatures are relatively low and there is no heating boiler or other areas where conditions are particularly applicable.
- ◆ The unit uses high efficiency heat exchanger with advanced, unique shape design and systems. Units can be installed directly on the roof, or other well-ventilated place outdoors, without a separate room, space saving construction. Complete protection, units are equipped with thermal protection switch, overload relays, high and low pressure safety switch, three-phase protection, antifreeze switch and delay start other protective devices to ensure host security, reliable operation. Compact shape, appearance, unit uses "W" type coil design, space utilization, small unit size, in order to adapt to the outdoor weather conditions to ensure that the unit has a good operating results during the life cycle.

SPECIFICATION TABLE 规格参数表



参数 Parameters		型号 Model	HL-80AS	HL-110AS	HL-140AS	HL-150AS	HL-180AS	HL-200AS	HL-240AS
制冷量(2/50℃) Cooling capacity	X1000 Kcal	68.8	94.6	120.4	129	154.8	172	206.4	
	KW/hr	80	110	140	150	180	200	240	
温控范围 Temperature range		5℃-25℃ (0℃以下可定制) 5℃-25℃ (below 0℃ can be customized)							
电源 Power supply		3N-380V/415 50HZ/60HZ							
额定电流 Rated current	A	59.9	79.7	93.6	108.6	129.1	142.8	158.0	
总功率 Total power	KW	32.4	43.1	50.6	58.7	69.8	77.2	85.4	
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw							
	功率 KW	27.5	36.5	44	51	61	67	75	
	能量调节	0-33%-66%-100%				0-25%-50%-75%-100%			
冷凝器 Condenser	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin							
风机 Fan	风量 M³/h	30000	40000	50000	60000	72000	76000	85000	
	数量	500X6	550X6	550X6	600X6	630X6	600X8	630X8	
	功率 KW	2.7	3.6	3.6	4.7	4.8	6.2	6.4	
蒸发器 Evaporator	形式	壳管式							
	冷水量 M³/h	13.8	18.9	24.1	25.8	31.0	34.4	41.3	
	进出水管径 G	G2.5"	G2.5"	G2.5"	G2.5"	G3"	G3"	G3"	
循环泵 Circulating pump	功率 KW	2.2	3.0	3.0	3.0	4.0	4.0	4.0	
保护装置		相序、高低压、过载、防冻、流量、开机延时、排气温度、电机绕组过热保护 Phase order, High voltage, Overload, Antifreeze, Flow, Boot delay, Exhaust temperature, Motor winding thermal protection							
机器尺寸 Machine size	A/mm	2200	2200	2500	2500	2500	3350	3350	
	B/mm	1360	1360	1600	1600	1600	1700	1700	
	C/mm	1910	1910	1980	1980	1980	2050	2050	
机组重量 Unit Weight	KG	1100	1200	1300	1400	1550	1800	2100	
运行重量 Unit Weight	KG	1360	1470	1590	1700	1850	2200	2500	

参数 Parameters		型号 Model	HL-270AS	HL-330AS	HL-410AS	HL-490AS	HL-590AS	HL-650AS	HL-770AS
制冷量(2/50℃) Cooling capacity	X1000 Kcal		232.2	283.8	352.6	421.4	507.4	559	619.2
	KW/hr		270	330	410	490	590	650	770
温控范围 Temperature range			5℃-25℃ (0℃以下可定制) 5℃-25℃ (below 0℃ can be customized)						
电源 Power supply			3N-380V/415 50HZ/60HZ						
额定电流 Rated current	A		183.0	221.8	274.2	320.1	378.1	417.0	494.3
总功率 Total power	KW		98.9	119.9	148.2	173.0	204.4	225.4	267.2
压缩机 Compressor	形式		半封闭螺杆式 Semi-hermetic screw						
	功率 KW		87	105	129	150	179	200	237
	能量调节		0-25%-50%-75%-100%						
冷凝器 Condenser	形式		高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin						
	风量 M³/h		98000	120000	145000	170000	200000	223000	270000
风机 Fan	数量		630X8	600X12	600X15	630X15	630X18	630X18	630X24
	功率 KW		6.4	9.4	11.7	12.0	14.4	14.4	19.2
蒸发器 Evaporator	形式		壳管式						
	冷水量 M³/h		46.5	56.8	70.6	84.3	101.5	111.8	123.9
	进出水管径 G		G3"	G4"	G4"	G4"	G4"	G4"	G4"
循环泵 Circulating pump	功率 KW		5.5	5.5	7.5	11.0	11.0	11.0	11.0
保护装置			相序、高低压、过载、防冻、流量、开机延时、排气温度、电机绕组过热保护 Phase order, High voltage, Overload, Antifreeze, Flow, Boot delay, Exhaust temperature, Motor winding thermal protection						
机器尺寸 Machine size	A/mm		3350	4760	4300	4300	4950	4950	6550
	B/mm		1700	1700	2200	2200	2200	2200	2200
	C/mm		2050	2100	2200	2200	2300	2300	2300
机组重量 Unit Weight	KG		2350	2600	3100	3400	3850	4000	5000
运行重量 Unit Weight	KG		2780	3050	3600	3900	4450	4600	5800

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、风冷机组必须安装在通风良好的地方（如室外、楼顶），同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12 °C, the water temperature of 7 °C, evaporation temperature 2 °C, condensing temperature 50 °C, dry bulb 35 °C, wet bulb 24 °C; 2, when the ambient temperature is below 2 °C or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4. Performance specifications are subject to change due to product improvement without notice.

SPECIFICATION TABLE 规格参数表

参数 Parameters		型号 Model	HL-160AD	HL-220AD	HL-280AD	HL-330AD	HL-400AD	HL-490AD	HL-510AD
制冷量(2/50℃) Cooling capacity		X1000 Kcal	137.6	189.2	240.8	283.8	344	421.4	438.6
		KW/hr	160	220	280	330	400	490	510
温控范围 Temperature range	5℃-25℃（0℃以下可定制） 5℃ -25℃ (below 0℃ can be customized)								
电源 Power supply	3N-380V/415 50HZ/60HZ								
额定电流 Rated currentr	A	116.0	153.9	191.5	218.1	277.7	320.1	344.1	
总功率 Total power	KW	62.7	83.2	103.5	117.9	150.1	173	180.6	
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw							
	功率 KW	27.5X2	36.5X2	46X2	52X2	66.5X2	75X2	79X2	
	能量调节	0-25%-50%-75%-100%							
冷凝器 Condenser	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin							
风机 Fan	风量 M³/h	60000	80000	100000	120000	150000	170000	180000	
	数量	600X6	600X8	630X8	600X12	630X12	630X15	630X15	
	功率 KW	4.7	6.2	6.4	9.4	9.6	12.0	12.0	
蒸发器 Evaporator	形式	壳管式							
	冷水量 M³/h	25.8	37.8	48.2	56.8	68.8	84.3	87.7	
	进出水管径 G	G2.5"	G3"	G3"	G4"	G4"	G4"	G4"	
循环泵 Circulating pump	功率 KW	3.0	4.0	5.5	5.5	7.5	11.0	11.0	
保护装置 Protector	相序、高低压、过载、防冻、流量、开机延时、排气温度、电机绕组过热保护 Phase order, High voltage, Overload, Antifreeze, Flow, Boot delay, Exhaust temperature, Motor winding thermal protection								
机器尺寸 Machine size	A/mm	2500	3350	3350	4760	4760	4300	4300	
	B/mm	1600	1700	1700	1700	1700	2200	2200	
	C/mm	1980	2050	2050	2100	2100	2200	2200	
机组重量 Unit Weight	KG	1760	2400	2750	3300	3500	3850	4100	
运行重量 Unit Weight	KG	2100	2850	3300	3750	4000	4400	4650	

参数 Parameters		型号 Model	HL-630AD	HL-680AD	HL-790AD	HL-900AD	HL-1000AD	HL-1170AD	HL-1300AD
制冷量(2/50℃) Cooling capacity		X1000 Kcal	541.8	584.8	679.4	774	860	1006.2	1118
		KW/hr	630	680	790	900	1000	1170	1300
温控范围 Temperature range		5℃-25℃ (0℃以下可定制) 5℃-25℃ (below 0℃ can be customized)							
电源 Power supply		3N-380V/415 50HZ/60HZ							
额定电流 Rated current	A	398.5	444.2	507.3	581.3	633.6	751.1	834.0	
总功率 Total power	KW	215.4	240.1	274.2	314.2	342.5	406	450.8	
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw							
	功率 KW	95X2	105X2	120X2	140X2	150X2	180X2	200X2	
	能量调节	0-25%-50%-75%-100%							
冷凝器 Condenser	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin							
风机 Fan	风量 M³/h	220000	240000	280000	320000	340000	400000	450000	
	数量	630X18	600X24	630X24	800X16	800X20	800X20	800X24	
	功率 KW	14.4	18.72	19.2	19.2	24.0	24.0	28.8	
蒸发器 Evaporator	形式	壳管式							
	冷水量 M³/h	108.4	117	135.9	155	172	201.2	223.6	
	进出水管径 G	G4"	G4"	G5"	G5"	G5"	G6"	G6"	
循环泵 Circulating pump	功率 KW	11.0	11.0	15.0	15.0	18.5	22.0	22.0	
保护装置 Protector		相序、高低压、过载、防冻、流量、开机延时、排气温度、电机绕组过热保护 Phase order, High voltage, Overload, Antifreeze, Flow, Boot delay, Exhaust temperature, Motor winding thermal protection							
机器尺寸 Machine size	A/mm	4950	6200	6550	8680	10800	10800	12800	
	B/mm	2200	2200	2200	2200	2200	2200	2200	
	C/mm	2300	2300	2300	2400	2400	2400	2400	
机组重量 Unit Weight	KG	4350	4800	5200	6700	7200	8400	10500	
运行重量 Unit Weight	KG	4800	5500	6000	7700	8200	9500	12000	

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度2℃，冷凝温度50℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、风冷机组必须安装在通风良好的地方（如室外、楼顶），同时保证风道系统畅通无阻；4、规格性能会因产品改良有所变动，恕不另行通知。
Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, evaporation temperature 2℃, condensing temperature 50℃, dry bulb 35℃, wet bulb 24℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, the air-cooled unit must be installed in a well-ventilated place (such as outdoor, roof), while ensuring smooth air duct system; 4, Performance specifications are subject to change due to product improvement without notice.

工业设备精确制冷技术解决方案专家

WATER-COOLED SCREW UNIT

水冷型螺杆机组



SPECIAL FEATURES 功能特点

- ◆ 最高效的半封闭式压缩机组的心脏-进口优质螺杆压缩机，其5:6超高效螺旋转子压缩机，比一般压缩机能效高20~30%，运行可靠、效率高、维护容易，精确的能量控制、应用范围广。1、最新非对称转子齿形双螺杆；2、四段或无段式控制系统；3、内建压差式供油润滑系统；4、低震动、低噪音。
- ◆ 微机准确控制温度，机组微电脑控制器采用超大屏触摸式液晶显示，具有良好的全中文人机对话界面实现前功能自动化控制，液晶显示屏即时显示机器工作状况，精确监控机组运行在最佳状态，其接触面板密封好，防水，防尘，抗腐蚀，按键寿命长。
- ◆ 分级与无极能量控制，用于一般的制冷、空调系统，装备有100%、75%、50%、25%分级能量控制系统，此能量控制确保机组在部分负荷时发挥最大节能效果，但如需精确控制水温，可按用户要求，所有机型均可装配无极能量控制。四、运行效率高，换热器采用日本神户内螺纹高效管，外加高效的螺杆式压缩机，保证了机组的高效率运行，最可靠的保护和辅助部件，冷水机组具有下列部件以防止任何运转故障：压缩机保护计时器，过电流继电器、压缩机电机温感器、防冻结温控器、视野镜、油加热器、压缩机逆向保护继电器，排气高温保护，安全阀，易溶塞。

- ◆ First, the heart of the most efficient semi-hermetic compressors - imported high-quality screw compressor 5: 6 ultra-efficient screw compressor rotors, compressor than the average 20-30% more energy efficient, reliable operation, high efficiency, easy maintenance, precise power control, a wide range of applications. 1, the latest twin-screw asymmetric rotor tooth; two, four or stepless control system; 3, built-in pressure-oil lubrication system; 4, low vibration, low noise.
- ◆ Second, the computer accurately control the temperature, micro-controller unit with large LCD touch screen, a good all-Chinese interactive interface to achieve automatic control function before the LCD display real-time status of the machine work, precise monitoring unit operating at optimum state, the touch panel sealed, waterproof, dustproof, corrosion-resistant, long-key life.
- ◆ Third, grading and Promise energy control, for general refrigeration, air conditioning systems, equipped with 100%, 75%, 50%, 25% grade energy control systems, this energy control unit to ensure maximum energy savings at part load, but For precise control of temperature, according to user requirements, all models can be fitted Promise energy control. Fourth, high operating efficiency, heat exchanger and efficient use of Kobe, Japan, threaded pipe, plus efficient screw compressors, to ensure high efficiency of the unit is running, the most reliable protection and accessories, chillers have the following components in order to prevent any operation fault; compressor protection timer; overcurrent relay, compressor motor temperature sensors, anti-freeze thermostat, vision mirror, oil heater, compressor reverse protection relays, exhaust temperature protection, safety valve, soluble plug.

SPECIFICATION TABLE 规格参数表

参数 Parameters		型号 Model	HL-100WS	HL-140WS	HL-180WS	HL-200WS	HL-230WS	HL-260WS	HL-300WS	HL-340WS	HL-370WS	HL-410WS	HL-470WS
制冷量(2/40℃) Cooling capacity	X1000 Kcal	86	120.4	154.8	172	197.8	223.6	258	292.4	318.2	352.6	404.2	
	KW/hr	100	140	180	200	230	260	300	340	370	410	470	
温控范围 Temperature range	5℃~常温（0℃以下可定制） 5℃ - room temperature (below 0℃ can be customized)												
电源 Power supply	3N-380V/415 50HZ/60HZ												
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw											
	功率 KW	22	30	36	41	51	56	61	70	80	88	102	
	电流 A	39	51	65	71	86	95	106	122	135	150	172	
	能量调节	0-33%-66%-100%				0-25%-50%-75%-100%							
冷凝器 Condenser	形式	壳管式 Shell and tube											
	水量 M³/h	22.4	29.2	35.2	42.9	53.6	57.8	67.1	74.3	84.3	89.4	107.5	
	进出水管径 G	G2.5"	G3"	G3"	G3"	G3"	G3"	G3"	G4"	G4"	G4"	G4"	
蒸发器 Evaporator	形式	壳管式 Shell and tube											
	水量 M³/h	17.2	22.4	29.3	33	40.8	43.9	51.6	56.8	64.2	68.8	81.6	
	进出水管径 G	G2.5"	G3"	G3"	G3"	G3"	G3"	G3"	G4"	G4"	G4"	G4"	
机器尺寸 Machine size	A/mm	2200	2250	2350	2450	2450	2500	2900	2900	2900	2950	3000	
	B/mm	800	800	800	900	900	900	900	900	900	900	1500	
	C/mm	1500	1600	1650	1750	1750	1800	1800	1850	1850	1950	1500	
机组重量 Unit Weight	KG	960	990	1260	1380	1450	1520	1710	1830	1940	2050	2400	
运行重量 Unit Weight	KG	1280	1300	1600	1830	1950	2070	2300	2400	2550	2650	3050	

参数 Parameters		型号 Model	HL-510WS	HL-550WS	HL-620WS	HL-710WS	HL-790WS	HL-830WS	HL-930WS	HL-1020WS	HL-1130WS	HL-1270WS	HL-1530WS
制冷量(2/40℃) Cooling capacity	X1000 Kcal	438.6	473	533.2	610.6	679.4	713.8	799.8	877.2	971.8	1101	1316	
	KW/hr	510	550	620	710	790	830	930	1020	1130	1270	1530	
温控范围 Temperature range	5℃-常温（0℃以下可定制） 5℃ - room temperature (below 0℃ can be customized)												
电源 Power supply	3N-380V/415 50HZ/60HZ												
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw											
	功率 KW	108	118	130	150	167	175	200	225	250	281	325	
	电流 A	182	198	218	253	280	295	335	390	432	480	553	
	能量调节	0-25%-50%-75%-100%											
冷凝器 Condenser	形式	壳管式 Shell and tube											
	水量 M³/h	113.4	123.9	136.5	157.5	175.4	183.8	210	236.3	262.5	296	341.3	
	进出水管径 G	G4"	G5"	G5"	G5"	G6"	G6"	G6"	G8"	G8"	G8"	G8"	
蒸发器 Evaporator	形式	壳管式 Shell and tube											
	水量 M³/h	86.4	95	104	120	133.6	140	160	180	200	225	260	
	进出水管径 G	G4"	G5"	G5"	G5"	G6"	G6"	G6"	G8"	G8"	G8"	G8"	
机器尺寸 Machine size	A/mm	3000	3000	3600	3600	3600	3600	3650	3650	3700	3700	4200	
	B/mm	1500	1500	1500	1500	1500	1500	1600	1650	1750	1750	1750	
	C/mm	1550	1550	1650	1650	1700	1700	1700	1700	1750	1800	1800	
机组重量 Unit Weight	KG	2490	2580	3050	3200	3360	3450	3780	4060	4330	4600	4820	
运行重量 Unit Weight	KG	3200	3300	3800	4000	4200	4320	3700	5000	5400	5700	6000	

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，冷却水进出温度30℃/35℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, the temperature of the cooling water out of 30℃ / 35℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, due to product improvement performance specifications are subject to change without notice.

SPECIFICATION TABLE 规格参数表

参数 Parameters		型号 Model	HL-400WD	HL-460WD	HL-520WD	HL-600WD	HL-680WD	HL-740WD	HL-820WD	HL-940WD	HL-1020WS
制冷量(2/40℃) Cooling capacity	X1000 Kcal	344	395.6	447.2	516	584.8	636.4	705.2	808.4	877.2	
	KW/hr	400	460	520	600	680	740	820	940	1020	
温控范围 Temperature range	5℃-常温（0℃以下可定制） 5℃ - room temperature (below 0℃ can be customized)										
电源 Power supply	3N-380V/415 50HZ/60HZ										
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw									
	功率 KW	41X2	51X2	56X2	61X2	70X2	80X2	88X2	102X2	108X2	
	电流 A	142	172	190	212	244	270	300	344	364	
	能量调节	0-25%-50%-75%-100%									
冷凝器 Condenser	形式	壳管式 Shell and tube									
	水量 M³/h	85.8	107.2	115.6	134.2	148.6	168.6	178.8	215	226.8	
	进出水管径 G	G3"X2	G3"X2	G3"X2	G3"X2	G3"X2	G4"X2	G4"X2	G4"X2	G4"X2	
蒸发器 Evaporator	形式	壳管式 Shell and tube									
	水量 M³/h	65.6	81.6	89.6	97.6	116.9	127.3	141	161.7	175.4	
	进出水管径 G	G4"	G5"	G5"	G5"	G5"	G5"	G6"	G6"	G6"	
机器尺寸 Machine size	A/mm	3200	3400	3400	3350	3350	3850	4050	4100	3900	
	B/mm	900	900	900	900	1100	1200	1400	1450	1650	
	C/mm	1750	1750	2000	2050	2100	2100	2100	2150	2200	
机组重量 Unit Weight	KG	2250	2390	2780	3100	3260	3510	3830	4020	4250	
运行重量 Unit Weight	KG	2700	2890	3280	3600	3800	4200	4400	4600	4850	

参数 Parameters		型号 Model	HL-1100WD	HL-1240WD	HL-1420WD	HL-1580WD	HL-1660WD	HL-1860WD	HL-2040WD	HL-2260WD	HL-2560WD
制冷量(2/40℃) Cooling capacity	X1000 Kcal	946	1066.4	1221.2	1358.8	1427.6	1599.6	1754.4	1943.6	2201.6	
	KW/hr	1100	1240	1420	1580	1660	1860	2040	2260	2560	
温控范围 Temperature range	5℃-常温（0℃以下可定制） 5℃ - room temperature (below 0℃ can be customized)										
电源 Power supply	3N-380V/415 50HZ/60HZ										
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw									
	功率 KW	118X2	130X2	150X2	167X2	175X2	200X2	225X2	250X2	281X2	
	电流 A	396	436	506	560	590	670	780	864	960	
	能量调节	0-25%-50%-75%-100%									
冷凝器 Condenser	形式	壳管式 Shell and tube									
	水量 M³/h	247.8	273	315	350.7	367.5	420	472.5	525	590	
	进出水管径 G	G5"X2	G5"X2	G5"X2	G6"X2	G6"X2	G6"X2	G8"X2	G8"X2	G8"X2	
蒸发器 Evaporator	形式	壳管式 Shell and tube									
	水量 M³/h	189.2	213.3	244.2	271.8	285.5	320	350.8	388.7	440.3	
	进出水管径 G	G6"	G8 "	G8 "	G8 "	G8 "	G10 "	G10 "	G10 "	G10 "	
机器尺寸 Machine size	A/mm	3900	4500	4600	4600	4600	4700	4700	4700	4700	
	B/mm	1750	1750	1850	1850	1850	1950	1950	1950	1950	
	C/mm	2300	2350	2600	2600	2650	2650	2650	2650	2650	
机组重量 Unit Weight	KG	4450	4950	5980	6390	6520	6690	6800	7000	7120	
运行重量 Unit Weight	KG	5100	5650	6500	6900	7100	7300	7400	7650	7900	

备注：1、表中制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，冷却水进出温度30℃/35℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water inlet temperature is 12℃, the water temperature of 7℃, the temperature of the cooling water out of 30℃ / 35℃; 2, when the ambient temperature is below 2℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, due to product improvement performance specifications are subject to change without notice.

CRYOGENIC
SCREW UNIT

低温螺杆机组



SPECIAL FEATURES 功能特点

- ◆ 低温冷水机组，通常用于工业上某些特殊生产线上的低温需求。低温冷水机组一般可做到-40℃左右。低温机组需要添加合适种类，合适浓度的防冻液。可分为风冷式与水冷式。
- ◆ HL系列低温冷水机组是以知名品牌半封螺杆压缩机为主机，内置吸气过滤器、油过滤器、油分离器、安全减压阀和保护模块等，无泄漏，噪声低，运行稳定。采用高效壳管式换热器作机组冷凝器和蒸发器，控制元件全部采用知名品牌，以及多项安全保护功能，使得机组运行安全、可靠、高效节能。可为医药、化工，食品等行业提供低温冷水的成套制冷设备。
- ◆ 机组采用先进的微电脑自动控制系统，可通过触摸屏对机组进行精确的控制和完善的保护。界面上可显示机组运行状况、参数设定值、报警情况及记录等，使操作者一目了然，操作十分简单、方便。具备与冷媒水泵、冷却水泵和冷却塔风机连锁控制功能。
- ◆ 现场安装只需现场接通水、电，并充注适量制冷剂，经过调试即可运行，免去了使用传统的散件制盐水装置大量的现场安装工作。

- ◆ Low temperature chillers, generally low demand for some special production line industry. Low temperature chillers generally be done about -40 °C. You need to add the right kind of low-temperature unit, the appropriate concentration of antifreeze. Can be divided into air-cooled and water-cooled.
- ◆ HL series of low temperature chillers based on well-known brands as the host semi-hermetic screw compressor, built-in suction filter, oil filter, oil separators, safety valve and protection module, no leakage, low noise, stable operation. Efficient use of shell and tube heat exchanger for the condenser and evaporator unit, control components used in all well-known brands, as well as a number of security features, making the units are safe, reliable and energy efficient. Provide cold water for the pharmaceutical, chemical, food and other industries sets refrigeration equipment.
- ◆ The unit uses advanced microcomputer control system, precise control of the unit and complete protection through the touch screen. The interface can display unit operating conditions, parameter settings, alarm conditions and records, so that the operator at a glance, the operation is very simple and convenient. Equipped with refrigerant pumps, cooling water pumps and cooling tower fan interlock control function.
- ◆ Just turn on the field site installation of water, electricity, and the right amount of refrigerant charge, after commissioning to run, eliminating the use of traditional means lots of parts made saline-site installation work.

SPECIFICATION TABLE 规格参数表

机组型号 Unit Type	冷冻水出水 温度℃ Temperature of the out-flowing refrigeration water	冷却水进水 Cooling water inlet							
		30.0				32.0			
		制冷量 Refrigerating capacity KW	配电功率 Given power KW	冷冻水流量 Flow of refrigerant water t/h	冷却水流量 Flow of cooling water t/h	制冷量 Refrigerating capacity KW	配电功率 Given power KW	冷冻水流量 Flow of refrigerant water t/h	冷却水流量 Flow of cooling water t/h
HL-55	-5.0	65.9	23.1	13.3	15.3	64.8	24.1	13.1	15.3
	-10.0	54.8	22.4	11.3	13.3	54	23.3	11.1	13.3
	-15.0	45.3	21.7	9.7	11.5	44.5	22.6	9.6	11.6
	-20.0	37.1	21	8.3	10.0	36.4	21.9	8.1	10.0
	-25.0	30.1	20.3	7.0	8.7	29.5	21.2	6.8	8.7
	-30.0	24.1	18.9	5.7	7.4	23.6	19.5	5.6	7.4
HL-75	-35.0	18.9	17.5	5.2	6.3	18.7	17.8	5.1	6.3
	-5.0	89.8	30.4	18.1	20.7	88.3	31.8	17.8	20.7
	-10.0	74.7	29.5	15.4	17.9	73.6	30.7	15.1	18.0
	-15.0	61.8	28.5	13.3	15.6	60.7	29.8	13.0	15.6
	-20.0	50.6	27.6	11.3	13.5	49.7	28.9	11.1	13.5
	-25.0	41	26.7	9.5	11.7	40.2	27.9	9.3	11.7
HL-100	-30.0	32.8	25.2	7.8	10.0	32.2	26	7.7	10.0
	-35.0	25.7	23.3	7.0	8.4	25.5	23.7	7.0	8.5
	-5.0	117.8	38.2	23.7	26.9	115.9	39.9	23.3	26.8
	-10.0	98.1	37	20.2	23.3	96.5	38.6	19.9	23.3
	-15.0	81.1	35.8	17.4	20.1	79.6	37.4	17.1	20.2
	-20.0	66.4	34.6	14.8	17.4	65.2	36.2	14.5	17.5
HL-130	-25.0	53.8	33.5	12.5	15.0	52.8	35	12.2	15.1
	-30.0	43	32.4	10.2	13.0	42.2	33.2	10.1	13.0
	-35.0	33.7	29.8	9.2	10.9	33.4	30.2	9.1	11.0
	-5.0	156.4	51	31.5	35.7	153.8	53.2	31.0	35.7
	-10.0	130.2	49.3	26.8	30.9	128.1	51.5	26.4	30.9
	-15.0	107.7	47.8	23.1	26.8	105.7	49.9	22.7	26.8
HL-150	-20.0	88.2	46.2	19.7	23.2	86.5	48.3	19.3	23.2
	-25.0	71.5	44.7	16.6	20.0	70.1	46.7	16.2	20.1
	-30.0	57.1	43.2	13.6	17.3	56	44.2	13.3	17.3
	-35.0	44.8	39.7	12.2	14.6	44.3	40.3	12.1	14.6
	-5.0	179.6	60.8	36.2	41.4	176.6	63.6	35.6	41.4
	-10.0	149.4	59	30.7	35.9	147.2	61.4	30.3	35.9
HL-180	-15.0	123.6	57	26.6	31.1	121.4	59.6	26.1	31.2
	-20.0	101.2	55.2	22.6	26.9	99.4	57.8	22.2	27.1
	-25.0	82	53.4	19.0	23.3	80.4	55.8	18.6	23.5
	-30.0	65.6	50.4	15.6	20.0	64.4	52	15.3	20.0
	-35.0	51.4	46.6	14.0	16.9	51	47.4	13.9	16.9
	-5.0	213.7	65.8	43.1	48.1	210.2	68.6	42.3	48.0
HL-200	-10.0	177.9	63.7	36.6	41.6	175.1	66.4	36.0	41.6
	-15.0	147.1	61.6	31.6	35.9	144.4	64.4	31.0	36.0
	-20.0	120.5	59.7	26.9	31.0	118.2	62.3	26.3	31.1
	-25.0	97.7	57.7	22.6	26.8	95.8	60.2	22.2	26.9
	-30.0	78.1	55.8	18.6	23.1	76.5	58.1	18.2	23.2
	-35.0	61.2	52.4	16.7	19.6	60.6	53.1	16.5	19.6
HL-230	-5.0	235.6	76.4	47.5	53.7	231.8	79.8	46.7	53.7
	-10.0	196.2	74	40.4	46.5	193	77.2	39.7	46.5
	-15.0	162.2	71.6	34.9	40.3	159.2	74.8	34.2	40.3
	-20.0	132.8	69.2	29.6	34.8	130.4	72.4	29.1	34.9
	-25.0	107.6	67	24.9	30.1	105.6	70	24.5	30.2
	-30.0	86	64.8	20.5	26.0	84.4	66.4	20.1	26.0
HL-230	-35.0	67.4	59.6	18.4	21.9	66.8	60.4	18.2	21.9
	-5.0	278.7	87.8	56.1	63.1	274.1	91.7	55.2	63.0
	-10.0	232	85	47.7	54.6	228.3	88.7	47.0	54.6
	-15.0	191.8	82.3	41.2	47.2	188.3	86	40.5	47.2
	-20.0	157.1	79.7	35	40.8	154.2	83.2	34.4	40.9
	-25.0	127.3	77	29.5	35.2	124.9	80.4	28.9	35.4
HL-230	-30.0	101.8	74.5	24.3	30.4	99.8	77.6	23.8	30.6
	-35.0	79.8	69.3	21.8	25.7	79	70.3	21.6	25.7

备注：1、表中制冷量标定工况：冷冻水进出温差为5℃，冷却水进出温度30℃/35℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water out of the temperature difference of 5 °C, the temperature of the cooling water out of 30 °C / 35 °C; 2, when the ambient temperature is below 2 °C or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, due to product improvement performance specifications are subject to change without notice.



SPECIFICATION TABLE 规格参数表

机组型号 Unit Type	冷冻水出水 温度℃ Temperature of the out-flowing refrigeration water	冷却水进水 Cooling water inlet							
		30.0				32.0			
		制冷量 Refrigerating capacity KW	配电功率 Given power KW	冷冻水流量 Flow of refrigerant water t/h	冷却水流量 Flow of cooling water t/h	制冷量 Refrigerating capacity KW	配电功率 Given power KW	冷冻水流量 Flow of refrigerant water t/h	冷却水流量 Flow of cooling water t/h
HL-280	-5.0	331.6	102	66.8	74.7	326.2	106.5	65.7	74.5
	-10.0	276	98.7	56.8	64.5	271.7	103	55.9	64.5
	-15.0	228.3	95.6	49.1	55.8	224.1	99.8	48.2	55.8
	-20.0	187	92.5	41.7	48.1	183.5	96.7	40.9	48.3
	-25.0	151.5	89.5	35.1	41.5	148.6	93.4	34.4	41.7
	-30.0	121.1	86.5	28.9	35.8	118.7	90.1	28.3	36.0
	-35.0	95	81.2	25.9	30.4	94	82.4	25.7	30.4
HL-320	-5.0	383.3	116.7	77.2	86.1	377.1	121.8	76.0	85.9
	-10.0	319.1	113	65.6	74.4	314.1	117.8	64.6	74.4
	-15.0	263.9	109.4	56.7	64.3	259.1	114.2	55.7	64.3
	-20.0	216.2	105.8	48.2	55.5	212.1	110.6	47.3	55.6
	-25.0	175.2	102.3	40.6	47.8	171.8	106.8	39.8	48.0
	-30.0	140.1	99	33.4	41.2	137.3	103.1	32.7	41.4
	-35.0	109.8	93.3	30.0	35.0	108.7	94.7	29.7	35.0
HL-360	-5.0	431.1	129.6	86.8	96.6	424.1	135.3	85.4	96.4
	-10.0	358.8	125.5	73.8	83.4	353.2	130.9	72.7	83.4
	-15.0	296.8	121.5	63.8	72.1	291.4	126.8	62.6	72.0
	-20.0	243.1	117.6	54.2	62.1	238.5	122.8	53.2	62.2
	-25.0	197	113.7	45.7	53.5	193.2	118.6	44.8	53.7
	-30.0	157.5	109.9	37.5	46.1	154.4	114.5	36.8	46.3
	-35.0	123.5	104.1	33.7	39.2	122.2	105.7	33.4	39.3
HL-420	-5.0	506.2	158	102.0	114.4	498	164.8	100.3	114.2
	-10.0	421.4	153	86.7	98.9	414.8	159.6	85.3	98.9
	-15.0	348.4	148	74.9	85.5	342.2	154.6	73.5	85.6
	-20.0	285.4	143.2	63.6	73.8	280.2	149.8	62.5	74.1
	-25.0	231.4	138.6	53.6	63.7	226.8	144.6	52.6	64.0
	-30.0	185	134	44.1	54.9	181.2	139.6	43.2	55.3
	-35.0	145	125	39.6	46.5	143.4	127	39.1	46.6
HL-460	-5.0	557.4	175.6	112.3	126.3	548.2	183.4	110.4	126
	-10.0	464	170	95.5	109.2	456.6	177.4	93.9	109.2
	-15.0	383.6	164.6	82.4	94.4	376.6	172	80.9	94.5
	-20.0	314.2	159.4	70.0	81.6	308.4	166.4	68.7	81.8
	-25.0	254.6	154	59.0	70.4	249.8	160.8	57.9	70.7
	-30.0	203.6	149	48.5	60.7	199.6	155.2	47.6	61.1
	-35.0	159.6	138.6	43.6	51.4	158	140.6	43.1	51.4
HL-550	-5.0	663.5	197.9	133.7	148.4	652.7	206.5	131.5	148.0
	-10.0	552.3	191.5	113.6	128.1	543.7	199.8	111.8	128.1
	-15.0	456.8	185.4	98.1	110.6	448.4	193.6	96.3	110.6
	-20.0	374.2	179.5	83.4	95.4	367.1	187.5	81.8	95.5
	-25.0	303.2	173.5	70.3	82.1	297.3	181.1	68.9	82.4
	-30.0	242.4	167.8	57.8	70.7	237.6	174.8	56.6	71.0
	-35.0	190	159.5	51.9	60.2	188.1	161.9	51.3	60.3
HL-580	-5.0	700.2	215.4	141.1	157.7	688.8	224.8	138.8	157.4
	-10.0	582.8	208.6	119.9	136.3	573.8	217.6	118.0	136.3
	-15.0	482	201.8	103.6	117.8	473.2	210.8	101.7	117.8
	-20.0	394.8	195.4	88.0	101.7	387.4	204.2	86.4	101.9
	-25.0	320	189	74.2	87.7	313.8	197.2	72.7	88.0
	-30.0	255.8	182.6	61.0	75.5	250.8	190.2	59.8	76.0
	-35.0	200.6	171.4	54.8	64.1	198.4	174	54.2	64.1
HL-640	-5.0	766.6	233.4	154.4	172.2	754.2	243.6	151.9	171.9
	-10.0	638.2	226	131.3	148.9	628.2	235.6	129.2	148.8
	-15.0	527.8	218.8	113.4	128.6	518.2	228.4	111.3	128.6
	-20.0	432.4	211.6	96.4	110.9	424.2	221.2	94.6	111.2
	-25.0	350.4	204.6	81.2	95.6	343.6	213.6	79.6	96.0
	-30.0	280.2	198	66.8	82.4	274.6	206.2	65.4	82.8
	-35.0	219.6	186.6	59.9	70.0	217.4	189.4	59.3	70.1

备注：1、表中制冷量标定工况，冷冻水进出温差为5℃，冷却水进出温度30℃/35℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管冻胀；3、规格性能会因产品改良有所变动，恕不另行通知。

Note: 1, table refrigeration Calibration conditions: Chilled water out of the temperature difference of 5 ℃, the temperature of the cooling water out of 30 ℃ / 35 ℃; 2, when the ambient temperature is below 2 ℃ or long-term use, the machine should be ranked in the net water to prevent frost heaving brass; 3, due to product improvement performance specifications are subject to change without notice.

SPECIFICATION TABLE 规格参数表

机组型号 Unit Type	冷冻水出水 温度℃ Temperature of the out-flowing refrigeration water	冷却水进水 Cooling water inlet							
		30.0				32.0			
		制冷量 Refrigerating capacity KW	配电功率 Given power KW	冷冻水流量 Flow of refrigerant water t/h	冷却水流量 Flow of cooling water t/h	制冷量 Refrigerating capacity KW	配电功率 Given power KW	冷冻水流量 Flow of refrigerant water t/h	冷却水流量 Flow of cooling water t/h
HL-680	-5.0	813.3	241.4	163.8	181.7	800	251.9	161.2	181.2
	-10.0	676.9	233.7	139.2	156.8	666.4	243.7	137.1	156.8
	-15.0	559.9	226.2	120.3	135.4	549.7	236.2	118.1	135.4
	-20.0	458.6	218.9	102.2	116.7	450	228.7	100.3	116.9
	-25.0	371.7	211.7	86.1	100.5	364.4	220.9	84.4	100.8
	-30.0	297.1	204.7	70.8	86.4	291.2	213.2	69.4	86.9
	-35.0	232.9	194.9	63.6	73.7	230.5	197.9	62.9	73.8
HL-720	-5.0	862.2	259.2	173.7	193.2	848.2	270.6	170.9	192.7
	-10.0	717.6	251	147.6	166.8	706.4	261.8	145.3	166.8
	-15.0	593.6	243	127.5	144.1	582.8	253.6	125.2	144.1
	-20.0	486.2	235.2	108.4	124.3	477	245.6	106.3	124.5
	-25.0	394	227.4	91.3	107.0	386.4	237.2	89.5	107.4
	-30.0	315	219.8	75.1	92.1	308.8	229	73.6	92.6
	-35.0	247	208.2	67.4	78.4	244.4	211.4	66.7	78.5
HL-800	-5.0	958.3	282.9	193.1	213.8	942.7	295.2	189.9	213.2
	-10.0	797.6	273.8	164.1	184.5	785.2	285.6	161.5	184.4
	-15.0	659.7	265.1	141.7	159.3	647.7	276.8	139.2	159.2
	-20.0	540.4	256.6	120.5	137.3	530.2	268	118.2	137.5
	-25.0	437.9	248	101.5	118.1	429.4	258.9	99.5	118.6
	-30.0	350.1	239.8	83.4	101.6	343.1	249.8	81.8	102.1
	-35.0	274.4	231.9	74.9	87.2	271.6	232.4	74.1	86.8
HL-910	-5.0	1095	320	220.6	243.7	1077.2	333.9	217.0	243.1
	-10.0	911.5	309.8	187.5	210.4	897.3	323.1	184.6	210.2
	-15.0	753.8	299.9	162.0	181.5	740.1	313.1	159.0	181.4
	-20.0	617.5	290.2	137.6	156.4	605.9	303.2	135.1	156.6
	-25.0	500.4	280.6	116.0	134.5	490.7	292.8	113.7	135.0
	-30.0	400.1	271.3	95.4	115.6	392.1	282.6	93.4	116.2
	-35.0	313.6	262.4	85.6	99.2	310.4	264	84.7	98.9
HL-980	-5.0	1177.4	352	237.2	263.4	1158.2	367.2	233.3	262.7
	-10.0	980	340.6	201.6	227.5	964.8	355.4	198.5	227.4
	-15.0	810.6	329.8	174.2	196.4	795.8	344.4	171.0	196.4
	-20.0	664	319.2	148.0	169.4	651.4	333.4	145.2	169.6
	-25.0	538	308.6	124.7	145.8	527.6	322	122.3	146.3
	-30.0	430.2	298.4	102.5	125.5	421.6	310.8	100.5	126.2
	-35.0	337.2	283.4	92.0	106.9	333.8	287.6	91.1	107.0
HL1100	-5.0	1327	395.8	267.3	296.8	1305.4	413	263.0	296.0
	-10.0	1104.6	383	227.2	256.2	1087.4	399.6	223.7	256.1
	-15.0	913.6	370.8	196.3	221.2	896.8	387.2	192.7	221.2
	-20.0	748.4	359	166.8	190.7	734.2	375	163.7	191.1
	-25.0	606.4	347	140.5	164.2	594.6	362.2	137.8	164.8
	-30.0	484.8	335.8	115.5	141.3	475.2	349.6	113.3	142.1
	-35.0	380	319	103.7	120.4	376.2	323.8	102.7	120.6
HL1360	-5.0	1626.6	482.8	327.7	363.3	1600	503.8	322.3	362.4
	-10.0	1353.8	467.4	278.5	313.7	1332.8	487.4	274.2	313.5
	-15.0	1119.8	452.4	240.6	270.8	1099.4	472.4	236.2	270.7
	-20.0	917.2	437.8	204.5	233.4	900	457.4	200.6	233.8
	-25.0	743.4	423.4	172.3	201.0	728.8	441.8	168.9	201.6
	-30.0	594.2	409.4	141.6	172.9	582.4	426.4	138.8	173.8
	-35.0	465.8	389.8	127.1	147.4	461	395.8	125.8	147.6
HL1600	-5.0	1916.6	565.8	386.1	427.6	1885.4	590.4	379.8	426.5
	-10.0	1595.2	547.6	328.2	369.1	1570.4	571.2	323.1	368.9
	-15.0	1319.4	530.2	283.5	318.6	1295.4	553.6	278.3	318.5
	-20.0	1080.8	513.2	240.9	274.6	1060.4	536	236.4	275.0
	-25.0	875.8	496	203.0	236.3	858.8	517.8	199.0	237.1
	-30.0	700.2	479.6	166.9	203.2	686.2	499.6	163.5	204.3
	-35.0	548.8	463.8	149.8	174.4	543.2	464.8	148.3	1

COOLING TOWER

冷却水塔



SPECIAL FEATURES 功能特点

- ◆ 海菱牌冷却塔适用于空调冷却系统。冷冻系统、塑胶、电镀、化工、陶瓷以及农业科技苗圃等；
- ◆ 海菱水塔采用优质PVC胶片。器蜂巢式扇纹大力增强冷热交换能力，并可抵受高达56℃，保证水干塔散热效能达至最佳水准，同时备有绿色及耐高温胶片供选用；
- ◆ 风扇：轴流式风扇。采用高级塑料或铝合金制造，每套风扇离厂前均经过专业人员严格定位及平衡测试；
- ◆ 所有金属主要配件：由原厂厚身钢材制造，经国际标准热渡浸锌防锈处理。同时也可提供不锈钢配件；
- ◆ 海菱牌水塔外壳：均为防酸抗碱侵蚀高级玻璃纤维强化材料，所有喉管及喷水设备采用高级塑料，不用加润滑油，保证耐用。所有海菱牌水塔，如在正常运行使用下，可享受今后一年保有用，超过一年者更换零件，均有折扣优惠。

- ◆ Hailing brand cooling tower is suitable for air conditioning cooling systems. Refrigeration systems, plastics, electroplating, chemical, ceramics and agricultural science and technology and nurseries.
- ◆ Hailing towers made of high quality PVC film. Cellular fan pattern is strongly enhanced hot swap capability, and can withstand up to 56℃, ensure that the water tower dry cooling performance up to the optimum level, but with green and high temperature film for selection;
- ◆ Fan: axial fans. High grade plastic or aluminum alloy, each fan from the former factory have to undergo a rigorous professional positioning and balance tests;
- ◆ All metal main parts; the original thick body made of steel, the international standard hot-dip zinc crossing rust treatment. Also available stainless steel fittings;
- ◆ Hailing licensing towers housing: are anti-acid alkali resistant glass fiber reinforced material erosion senior, all pipes and spray equipment using advanced plastic, do not add oil to ensure durability. All cards Hailing towers, as in normal operation using the following will be eligible next year tenure with more than one year replacement parts, have discounts.

SPECIFICATION TABLE 规格参数表

型号 Model		HL	8	10	15	20	25	30	40	50	60	80	100	125	150	200	250	300
资料 Data	流量 Nomianl Flow	m³/h	63	7.9	11.7	15.7	19.5	23.4	31.2	39.3	46.8	62.7	78.2	97.6	117	156	195	234
	风量 Air Volume	cmm	70	85	140	160	200	230	280	330	420	450	700	830	950	1250	1750	2000
	马达 Motor	KW	0.18	0.18	0.37	0.55	0.75	0.75	1.50	1.50	1.5	1.5	2.25	2.25	2.25	3.75	5.50	7.50
	音量 Noise Level(16M)	DBA	45.5	47.0	48.0	50.0	52.0	54.0	56.5	57.5	57.0	59.0	60.0	60.0	60.0	50.0	55.0	56.0
	净重 Dry Weinght	KG	42	46	54	67	98	116	130	190	240	260	500	540	580	880	1080	1760
	运行重量 Wet Weight	KG	180	190	290	300	500	530	550	975	1250	1280	1600	1640	1680	1980	2800	3930
管路 Piping	入水 Water Inlet	WI	40	40	50	50	80	80	80	80	100	100	125	125	150	150	200	200
	出水 Water Outlet	WO	40	40	50	50	80	80	80	80	100	100	125	125	150	150	200	200
	满水 Overflow	OF	25	25	25	25	25	25	25	25	25	25	50	50	50	50	80	80
	排水 Drain	DR	25	25	25	25	25	25	25	25	25	25	50	50	50	50	80	80
	浮波 Flow Valve	FV	15	15	15	15	15	15	15	15	20	20	20	20	20	25	40	40
高度 Height	塔体 Tower	TH	1700	1830	1630	1915	2155	1905	2050	2120	2380	2475	2785	2970	2970	3480	4020	4210
	马达 Motor	MH	170	170	170	170	180	180	200	200	270	270	320	320	320	350	590	680
	壳身 Casing	CH	940	1070	855	1140	1385	1130	1255	1255	1290	1455	1595	1780	1780	1965	2060	2160
	入风 Air Inlet	AH	170	170	170	170	245	245	245	245	325	325	325	325	325	335	470	470
	水盆 Water Basin	WH	420	420	435	435	345	350	350	420	455	455	545	545	545	830	900	900
	出/入水 Warer /Out	IH	245	245	260	260	185	160	160	225	215	215	315	315	320	290	280	280
	基础 Foundation	FH	250	250	250	250	300	300	300	300	300	300	300	300	300	300	300	300
尺寸 Dia	风扇 Exhaust Fan	ED	550	635	635	770	770	770	930	930	1180	1180	1450	1450	1450	1750	2135	2440
	水盆 Water Basin	WD	920	920	1165	1165	1385	1650	1650	1880	2100	2100	2900	2900	2900	3310	4120	4730
	基础 Foundation	FD	520	520	730	730	960	1180	1180	1370	1530	1530	2320	2320	2320	3180	4330	4990
尺寸 Dimension	基础 Foundation	FS	250	250	250	250	300	300	300	300	300	300	300	300	300	300	300	300
	脚板 L Plate L	PL	140	140	150	150	140	140	140	180	200	200	210	210	210	180	180	180
	脚板 W Plate W	PW	120	120	140	140	140	150	150	160	190	190	130	130	130	150	150	150
	螺丝 Bolt Center	BC	450	450	635	635	680	835	835	970	1080	1080	1145	1145	1145	520	800	800
	索结 Plate Center	SC	80	80	115	115	150	150	150	120	150	150	180	180	180	2250	2165	2495
材料 Material	索结 L Sochell	SL	390	390	515	515	600	780	780	835	915	915	1430	1430	1430	740	840	840
	带动方式 TypeofDrire		直接 Direct 皮带 Vee-Bell															
	风扇 ExhaustFan	EF01	玻璃钢/铝合金 F.R.P/AluminiumAlloy															
	马达 Motor	MT02	T.E.F.C. 380V/3ph/50Hz 全封闭式马达															
	马达架 Motor Support	MS03	镀锌钢 Galvanized Steel															
	风扇钢 Fan Guard	FG04	镀锌钢 Galvanized Steel															
	壳身 Casing	CS05	玻璃钢 Fibreglass Reinforced Polyester															
	水盆 Water Basin	WB06	玻璃钢 Fibreglass Reinforced Polyester															
	出入水缸 Suction Tank	ST07	玻璃钢 Fibreglass Reinforced Polyester															
	洒水系统 SprinklerSvstem	SP08	铝合金及塑料管 Alum Alloy/P.V.C.Pipc															
	拉力支 Tension Bar	TB09	镀锌钢 Galvanized Steel															
	隔水袖 Eliminator	ET10	玻璃钢 Fibreglass Reinforced Polyester															
	风支架 Airinlet Support	AI11	镀锌钢及塑料钢G.I.Steel & P.V.C.Mesh															
	水塔支架 TowerSupport	TS12	镀锌钢 Galvanized Steel															
	梯 Ladder	LD13	镀锌钢 Galvanized Steel															
	喉管 Piping	PP14	塑料管 P.V.C.Pipe															
	胶片架 In-Fillsupport	IS15	镀锌钢 Galvanized Steel															

ENGINEERING CASE

工程案例



我们所实现的是一种将先进的技术转化为先进的生产力的过程，更是将技术最大化体现的过程。我们将坚定不移地沿着以技术为核心的道路前进。

We achieved an advanced process technology into advanced productive forces, Is to maximize the technology embodied in the process. We will unwaveringly advance along the road as the core technology.



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