

关于我们……

About us……

北京环球联合机电设备有限公司秉承了优秀的“诚信、友善、勤劳、自强”的大中华民族精神，始创于上个世纪九十年代末期，位于中国大陆的政治、文化、科技、教育、交通中心—首都北京，是一家面向全国，服务于中国工业现代化建设和发展的跨地区经营性公司，旗下拥有多家分支机构和关系企业，遍布北京、天津、上海、广州、武汉、重庆、西安、沈阳、新疆等中国大陆32个省自治区直辖市，相关从业人员遍及全国，业务涉及工业、农业、航空、航天、化工、五金、电器、机电等几十大产业，数百个行业。历经风雨，经过多年的发展，北京环球联合机电设备有限公司始终坚持“传承卓越，共享价值”的企业理念，不断为客户提供最优质的产品和最完善的服务。高品质的产品、现代化的管理、完善的服务，使北京环球联合机电设备有限公司发展成为目前中国大陆最具专业化和规模化的制冷设备制造商之一。

为了满足中国大陆工业发展过程中不同用户的需求，北京环球联合机电设备有限公司联合了中国大陆知名高等院校及科研院所，通过不断的科研创新和技术合作，大力开发了品种齐全、功能完善与中国大陆工业发展相适应的冷水机、冷水机组、工业冷水机、工业冷水机组、冷冻机、冷冻机组、工业冷冻机、工业冷冻机组、制冷机、制冷机组、工业制冷机、工业制冷机组、冰水机、冷水浴、冰水浴、油冷机、冷风机、冷却机、冷却器、蒸发器、冷凝器、冷却塔、离心式冷冻机（冷水机）组、螺杆式制冷（热泵）机组、低温螺杆式冷冻机组（冷水机组）、水冷开放式冷冻机（冷水机）组、溴化锂吸收式冷（热）水机组、气源（空气源）热泵水循环恒温机组、水源（地源）热泵水循环恒温机组、模块式风冷冷（热）水机组、风冷柜式冷风机（空气恒温调节机）组、水冷柜式冷风机（空气恒温调节机）组、一体风冷式精密冷冻机（冷水机）、分体风冷式精密冷冻机（冷水机）、一体水冷式精密冷冻机（冷水机）、冷热两用水循环恒温机组、风冷式低温冷冻机（冷水机）、水冷式低温冷冻机（冷水机）、浸入式冷冻机（冷油机）、冷油机、风冷式水循环恒温控制冷却机、水冷式水循环恒温控制冷却机、风冷式油循环恒温控制冷却机、水冷式油循环恒温控制冷却机、水（油）冷却器、节能环保空气调节机、速冻机、凝冻机、冷冻式干燥机、工业除湿机、制冰机、低温冷凝机组、换热机组、闭式循环冷却塔（蒸发式冷凝器）、玻璃纤维维冷却塔、管道式离心泵等全自动智能控制成套制冷机电设备，创造了良好的市场业绩。同时还针对国外发达国家市场，开发了具有全球品质的高端工业制冷设备。

北京环球联合机电设备有限公司目前产品有三十多个系列，一百八十多种规格型号。产品用户遍及北京、上海、杭州、宁波、南京、苏州、广州、深圳、汕头、乌鲁木齐、福州、厦门、武汉、重庆、成都、西安、济南、青岛、天津、沈阳、大连、长春等中国大陆32个省自治区直辖市地区，并出口远销美国、加拿大、巴西、墨西哥、澳大利亚、新西兰、俄罗斯、德国、法国、英国、土耳其、沙特阿拉伯、埃及、中非、尼日利亚、南非、印度、印度尼西亚、马来西亚、新加坡、泰国、越南、台湾、香港等海外五十多个国家和地区众多用户。产品广泛应用于工业、农业、航空、航天、激光、医药、食品、饮料、化妆品、玩具、化工、五金、建材、汽车、电子、电器、机电等十七大产业，三十多个行业。

Beijing global joint electromechanical equipment limited adhering to has excellent of "integrity, and friendly, and industrious, and self-improvement" of Chinese spirit, was founded Yu last century 90 generation end, is located in China mainland of political, and cultural, and technology, and education, and traffic center—capital Beijing, is a—oriented national, service Yu China industrial modernization construction and development of across area business sexual company, its has more than branch body and relationship enterprise, throughout Beijing, and Tianjin, and Shanghai, and Guangzhou, and, and Wuhan, and Chongqing, and Xi ' an, and Shenyang, and 32 provinces in mainland China such as Xinjiang autonomous regions and municipalities, relevant practitioners throughout the country, businesses involving industry, agriculture, aviation, aerospace, chemicals, hardware, electrical, electromechanical, dozens of major industries, hundreds of industries. After the storm, after years of development, Beijing global combined with mechanical and electrical equipment company always adhere to the "tradition of excellence, shared value" business philosophy, continue to provide the highest quality products and the most perfect service. High quality of products, modern management, perfect service, promoting global joint electromechanical equipment company as mainland China one of the most specialized and large—scale manufacturers of refrigeration equipment.

To meet China mainland industrial development process in the different user of needs, Beijing global joint electromechanical equipment limited joint has China mainland famous University and the research homes by, through continued user of research innovation and technology cooperation, strongly development has varieties complete, and features perfect and China mainland industrial development phase adaptation of chiller, and cold water unit, and industrial chiller, and industrial cold water unit, and frozen machine, and frozen unit, and industrial frozen machine, and industrial frozen unit, and refrigerator, and refrigeration unit, and industrial refrigerator, and industrial refrigeration unit, and Ice water machine, and cold water bath, and ice water bath, and oil cold machine, and cold air machine, and cooling machine, and cooling Manager, and evaporator, and condensation Manager, and cooling tower, and centrifugal type frozen machine (chiller) group, and screw Rod type refrigeration (hot pump) unit, and low temperature screw Rod type frozen unit (cold water unit), and water open frozen machine (chiller) group, and bromide of lithium absorption type cold (hot) water unit, and gas source (air source) hot pump water cycle thermostat unit, and water (to source) hot pump water cycle thermostat unit, and module type wind cold cold (hot) water unit, and Wind freezer type cold air machine (air thermostat regulation machine) group, and water freezer type cold air machine (air thermostat regulation machine) group, and one wind cold type precision frozen machine (chiller), and one water type precision frozen machine (chiller), and hot and cold two water cycle thermostat unit, and wind cold type low temperature frozen machine (chiller), and water type low temperature frozen machine (chiller), and immersed type frozen machine (cold oil machine), and cold oil machine, and wind cold type water cycle thermostat control cooling machine, and Water type water cycle thermostat control cooling machine, and wind cold type oil cycle thermostat control cooling machine, and water type oil cycle thermostat control cooling machine, and water (oil) cooling Manager, and energy—saving environmental air regulation machine, and frozen machine, and freezing machine, and frozen type drying machine, and industrial dehumidification machine, and system ice machine, and low temperature condensation unit, and for hot unit, and closed type cycle cooling tower (evaporation type condensation Manager), and glass fiber cooling tower, and pipeline type centrifugal pump, automatic smart control sets refrigeration electromechanical equipment, created has good of market performance. But also at the foreign markets of developed countries, developed with the global quality of high—end industrial refrigeration equipment.

Beijing global combined with mechanical and electrical equipment company present products have more than more than 30 series, more than 180 kinds of specifications. Products user throughout Beijing, and Shanghai, and Hangzhou, and Ningbo, and Nanjing, and Suzhou, and Guangzhou, and Shenzhen, and Shantou, and Urumqi, and Fuzhou, and Xiamen, and Wuhan, and Chongqing, and Chengdu, and Xi ' an, and Jinan, and Qingdao, and Tianjin, and Shenyang, and Dalian, and Changchun, China mainland 32 a province autonomous region municipality area, and export sold United States, and Canada, and Brazil, and Mexico, and Australia, and New Zealand, and Russia, and Germany, and France, and United Kingdom, and Turkey, and Saudi Arabia, and Egypt, and Central African, and Nigeria, and South Africa, and India, and Indonesia, and Malaysia, and Singapore, and Thailand, and Viet Nam, and Taiwan, Hong Kong and other overseas customers in 56 countries and areas. Products are widely used in industry, agriculture, aviation, aerospace, lasers, medicine, food, beverages, cosmetics, toys, chemicals, hardware, building materials, automotive, electronic, electrical, electro—mechanical 17 major industry, more than 30 industries.

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AG系列离心式冷冻机（冷水机）组简介

AG series centrifugal type freezer (chiller) the group introduces

AG系列离心式冷冻机（冷水机）组采用国际知名品牌两级压缩机，高效节电，为用户节省运行费用。可靠性高压缩机与电机采用封闭式结构，没有联轴器、轴封等易损件。液态制冷剂冷却电机，电机冷却充分，绕组温度低。独有的多目标跟踪自动调控系统，使机组在恶劣的外部环境中正常运行。控制先进，使用方便，前馈自适应控制功能，当用户空调负荷急剧变化时，机组可根据冷水回水温度变化自动调节机组负荷，有力的保证了冷水出水温度的稳定性。

AG series centrifugal chillers (Cool-water) group of internationally famous brands levels compressor, high-efficiency and energy-saving. operating cost savings to users. Compressor motor enclosed structure with high reliability, without coupling, seals and other vulnerable cases. Motor refrigerant liquid cooling, cooling full motor winding temperature low. The unique multi-target tracking and automatic control system and the unit in the normal operation of an unfavorable external environment. Control of advanced, easy to use, adaptive feedforward control function, users rapidly changing air-conditioning load, Units can be adjusted automatically according to changes in load, high temperature water, a forceful guarantee for the stability of the cold water temperature.



- 独有的前馈功能，支持一次泵变频系统。
- 基本负荷控制功能，系统运行更经济。
- 楼宇自控系统通讯功能，让系统更节能。
- 独有的控制软件升级功能，与未来的节能技术保持同步。
- 采用低速多级压缩，有效避免部分负荷喘振。
- The former Fed unique function of a support system pump frequency.
- Load control the basic functions of the system's operation more economical.
- Building automation system communication, more energy-efficient system.
- The unique function of the control software upgrades, to keep pace with the future of energy-saving technologies.
- The adoption of multi-level low-speed compression can effectively prevent partial load surge.

AG系列离心式冷冻机（冷水机）组技术参数 AG series centrifugal refrigerator (chiller) group of technical parameters

规格型号 Specification model	制冷量 Refrigeration quantity		输入功率 Power input	效率 Efficiency	运转电流 Revolution electric current	启动电流 Starting current	制冷剂充注量 Refrigerant sufficient note quantity	蒸发器 Evaporator		
	Ton	kW	kW	kW/Ton	A	A	Kg R 134a	水量 Water volume	压降 Pressure drop	配管尺寸 Matches the tube size
								m ³ /h	kPa	mm
AG-400	400	1407	255	0.638	431	675	318	241	56	DN200
AG-450	450	1583	287	0.638	488	815	340	271	58	DN200
AG-500	500	1759	313	0.626	531	815	318	301	91	DN200
AG-550	550	1934	346	0.630	584	930	422	332	81	DN250
AG-600	600	2110	360	0.600	607	930	472	362	61	DN250
AG-650	650	2286	404	0.622	683	1031	472	392	71	DN250
AG-700	700	2462	427	0.610	723	1365	472	422	81	DN250
AG-750	750	2638	463	0.618	778	1439	494	452	74	DN250
AG-800	800	2814	502	0.627	841	1439	494	482	83	DN250
AG-850	850	2989	514	0.605	861	1439	494	512	100	DN250
AG-900	900	3165	548	0.608	920	1759	771	543	90	DN300
AG-950	950	3341	572	0.603	960	1759	839	573	67	DN300
AG-1000	1000	3517	590	0.590	972	1989	812	603	88	DN300
AG-1100	1100	3869	663	0.602	1088	1989	839	663	87	DN300
AG-1200	1200	4220	728	0.607	1191	2197	907	723	78	DN300
AG-1300	1300	4572	814	0.626	1336	2607	998	784	62	DN350
规格型号 Specification model	冷凝器 Condenser			重量 Weight		外型尺寸 Outlook size				
	水量 Water volume	压降 Pressure drop	配管尺寸 Matches the tube size	运输重量 Shipping weight	运行重量 Movement weight	长 Long	宽 Width	高 High		
	m ³ /h	kPa	mm	Kg	Kg	mm	mm	mm		
AG-400	289	43	DN200	7423	8326	4004	2090	2627		
AG-450	325	70	DN200	7722	8743	5054	2090	2627		
AG-500	361	86	DN200	7884	8892	5045	2090	2627		
AG-550	395	50	DN250	10105	11269	4073	2435	3076		
AG-600	428	62	DN250	10729	12144	5221	2435	3076		
AG-650	466	72	DN250	10753	12167	5221	2435	3076		
AG-700	503	84	DN250	10994	12408	5221	2435	3044		
AG-750	539	96	DN250	11073	12542	5221	2435	3044		
AG-800	576	88	DN250	11180	12703	5221	2435	3044		
AG-850	610	98	DN250	11492	13061	5221	2435	3044		
AG-900	645	85	DN300	14950	17214	5287	2980	3217		
AG-950	681	77	DN300	15273	17790	5287	2980	3217		
AG-1000	715	56	DN300	15855	18439	5287	2980	3217		
AG-1100	789	67	DN300	15953	18624	5287	2980	3217		
AG-1200	863	80	DN300	16115	18954	5287	2980	3217		
AG-1300	939	63	DN350	19245	22632	5307	3214	3514		

AK系列螺杆式制冷（热泵）机组简介

AK series screw rod type refrigeration (heat pump) the unit introduces

AK系列螺杆式制冷（热泵）机组采用国际知名品牌螺杆压缩机，配套优质高效节能铜管制作冷凝器，蒸发器及世界名牌控制元件，使机组具备体积小、噪音低、能量大、寿命长、操作简便等优点，其优美精巧的外形设计和可靠稳定的高效能品质在同类产品中出类拔萃！

AK series of screw-type cooling (heat pump) units internationally renowned brands screw compressor. supporting the production of high-quality, high-efficiency energy saving brass condenser, evaporator and the world famous control components and the unit with small volume, low-noise, energy, long life, the advantages of being easy to operate, its beautiful exterior and intricate design of efficient quality and reliability of the products of the best!



- 压缩机采用国际品牌，新型高效螺旋转子压缩机，比一般压缩机效能高出20%–30%，并获得欧美多国专利和ISO9001国际品质认证。
- 采用国外先进工艺加工而成的内外螺纹铜管和专业胀管技术，全程由CNC电脑数控编程加工制作完成，杜绝制冷剂泄漏现象。
- 选用全进口铜管和双曲波纹亲水铝箔，由高速冲床等专业设备制造，使铜管与翅片接触更加紧密，换热效率更高，具有体积小，重量轻，结构更加紧凑合理等优点。
- 机组控制系统采用国外进口PLC程控器，人机界面配置液晶大屏幕触摸屏，实现智能人机对话。内部储存大量故障处理方案及技术数据，多种语言显示机组运行状态，大大方便了机组的操作管理和维护。
- 机组配备完善的保护装置，有高低压保护器，压缩机过热保护，电流过载保护，防冻温度保护器，排气过热保护器，水流保护，感温式易熔塞，安全阀等。
- Compressor used international brand new efficient screw compressor rotor. 20% –30% higher than the average compressor efficiency. and in numerous countries in Europe and the United States Patent and obtained ISO 9001 international quality certification.

- Processed using advanced foreign technology and expertise of external threaded brass Expanding Technology, CNC computer numerical control programming produced by the whole process completed, and to eliminate refrigerant leakage phenomenon.
- The use of all imports and hyperbolic corrugated brass hydrophilic aluminum foil, punch by the high professional equipment manufacturers, Fin make contact with the brass more closely heat with higher efficiency, small size and light weight. the advantages of a more compact structure.
- Unit control system program for foreign imports PLC, HMI configuration screen LCD touch screen. intelligent man-machine dialogue. Failure to deal with a lot of internal storage and technical data showed multilingual crew operations, greatly facilitate the operation and management of the crew and maintenance.
- Units equipped with the protection device, high-low-voltage protectors, compressor overheating protection, current overload protection. Freezing temperatures Protection exhaust overheating protection devices, flow protection, temperature-fusible plugs, such as a safety valve.

AK系列螺杆式制冷（热泵）机组技术参数 AK series screw refrigeration (heat pump) set technical

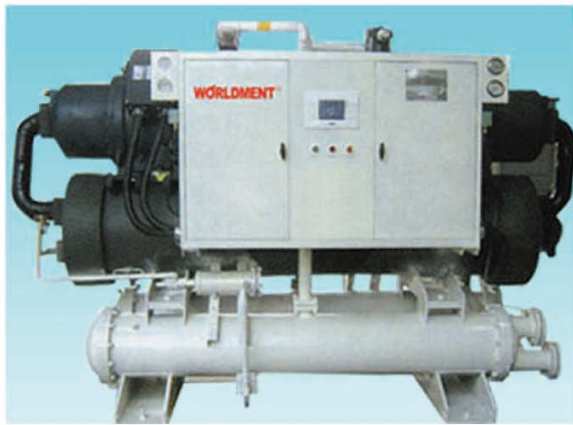
水冷螺杆式制冷（热泵）机组 Water-cooled screw refrigeration (Heat Pump)													
规格型号 Model		制冷量 Cooling apacity	制热量 Heat Capacity	额定功率 Rated power	冷凝器Condenser		蒸发器Evapo		机组净重 Dry weight	运行重量 Wet weight	外形尺寸 External dimensions		
					水流量 water flow rate	管径 Pipe caliber	冰水流量 water flow rate	管径 Pipe calibe			长 Long	宽 Width	高 High
					KW	KW	KW	L/min			Inch	L/min	Inch
水冷单机头 Water-one	AK-50WSH	152	174	36	502	3	439	3	900	1000	2290	700	1350
	AK-60WSH	172	197	41	566	3	497	3	1150	1350	2290	760	1420
	AK-75WSH	230	263	56	749	3	657	3	1400	1600	2290	760	1420
	AK-85WSH	265	303	61	846	4	774	4	1580	1880	2290	760	1420
	AK-120WSH	363	415	85	1152	5	1057	4	2050	2350	2950	760	1750
水冷双机头 Water-double	AK-100WDH	304	348	72	1006	4	879	4	1800	2050	3000	820	690
	AK-120WDH	344	393	82	1132	4	994	4	2320	2570	3000	900	1760
	AK-150WDH	460	526	112	1498	4	1314	4	2790	3060	3000	900	1760
	AK-180WDH	530	606	122	1692	5	1548	5	3160	3390	3750	930	1800
	AK-240WDH	726	830	170	2304	6	2114	5	3900	4350	3750	930	1800
水冷三机头 Water-three	AK-150WTH	456	521	108	1509	5	1320	5	2600	2900	3000	1200	1690
	AK-180WTH	516	590	123	1698	5	1491	5	2750	3050	3000	1250	1760
	AK-210WTH	690	789	168	2247	6	1971	5	3000	3300	3000	1250	1760
	AK-250WTH	795	908	183	2538	6	2322	5	4150	4500	3000	1250	1760
	AK-360WTH	1089	1245	255	3456	8	3171	6	6300	6600	3750	1400	1890
水冷三/四机头 Water-three/four	AK-420WTH	1323	1512	300	4192	6	3806	6	6500	7300	4500	1750	1950
	AK-480WTH	1560	1783	357	4946	8	4440	8	6900	7700	4500	1780	1950
	AK-540WTH	1710	1955	396	5426	8	4895	8	8800	9800	4500	1780	1950
	AK-660WTH	2100	2400	501	6600	10	6000	10	9400	10400	4500	1850	2100
	AK-720WTH	2343	2679	540	7355	10	6686	10	9900	10900	4500	1850	2100
风冷螺杆式制冷（热泵）机组 Air screw refrigeration (Heat Pump)													
规格型号 Model		制冷量 Cooling apacity	制热量 Heat Capacity	额定功率 Rated power	冷凝器Condenser		蒸发器Evapo		机组净重 Dry weight	运行重量 Wet weight	外形尺寸 External dimensions		
					风量Air volume	风机功率 Motor	冰水流量 water flow rate	管径 Pipe calibe			长 Long	宽 Width	高 High
					KW	KW	KW	MH			KW	L/min	Inch
风冷单机头 Air-one	AK-050ASH	124	142	47	38000	2	325	3	1800	1900	3200	1580	2100
	AK-060ASH	141	161	53	47000	2.5	360	3	1900	2000	3200	1580	2320
	AK-075ASH	188	215	73	58000	3	480	3	2200	2300	3850	1580	2320
	AK-085ASH	217	248	79	67000	3.75	540	4	2400	2500	3850	1580	2320
	AK-120ASH	297	340	111	105000	5	754	4	3500	3700	4860	2300	2650
风冷双机头 Air-double	AK-100ADH	248	284	94	79000	4	651	4	2800	3000	4460	2300	2500
	AK-120ADH	282	322	106	105000	5	720	4	3700	3900	4860	2300	2650
	AK-150ADH	376	430	146	119000	6	960	4	4000	4300	5832	2300	2650
	AK-180ADH	434	496	158	136000	8	1080	6	4300	4600	6240	2300	2880
	AK-240ADH	594	679	222	167000	12	1508	8	5300	5800	8120	2300	2880
电源Power supply							30—50HZ—380V						
制冷剂流量控制 Discharge control							热力膨胀阀 Thermodynamic energy valve						
冷媒Cooling lies quality							R22						
压缩机 Compressor	款式Style						半密封螺杆式 Half seals completely screw type						
	起动方式Start way						Y-△起动 Y- △start						
	容量控制(%)Capacity control (%)						100—75—50—25						
安全保护 Safety protect		压缩机过热保护过流保护、高低压保护、防冻保护、流量开关、相序/缺相保护、排气过热保护 Compressor overheat protection, overflowing protection, high and low pressure protection, anti-frost protection, phrase sequence/open phrase protection and exhaust over hot protection											

LK系列低温螺杆式冷冻机组(冷水机组)简介

LK series low temperature screw rod type freezing unit (cold water unit) introduces

LK系列低温螺杆式冷冻机组（冷水机组）采用国际知名品牌螺杆压缩机，配套优质高效节能铜管制作冷凝器，蒸发器及世界名牌控制元件，使机组具备体积小、噪音低、能量大、寿命长、操作简便等优点，其优美精巧的外形设计和可靠稳定的高效能品质在同类产品中出类拔萃！

LK series hypothermia screw chillers unit (Chiller) adopted internationally renowned brands screw compressor. supporting the production of high-quality, high-efficiency energy saving brass condenser, evaporator and the world famous control components and the unit with small volume, low-noise, energy, long life, the advantages of being easy to operate, its beautiful exterior and intricate design of efficient quality and reliability of the products of the best!



- 外观精美，结构紧凑，安装保养方便。
 - 有国际一流的配件及精良的加工设备确保产品品质。
 - 低噪音、高效率、运行平稳，配备多重安全保护，性能更可靠。
 - 系统设计先进完善，每台压缩机均具有一个独立的制冷回路，运行范围更广。
 - 机种齐全，最低出水温度可达-45℃。
 - 人性化的微电脑控制系统使运行更经济节能。
- Exquisite appearance, compact structure, installation and maintenance convenience.
 - The university has a world-class accessories and sophisticated processing equipment to ensure product quality.
 - low noise, high efficiency, stable operation, equipped with multiple safety protection, and more reliable performance.
 - System design advanced, each of refrigeration compressors to have an independent circuit, a broader operation.
 - Complete aircraft, the minimum water temperature of up to -45 degrees Celsius.
 - Humanized the microcomputer control system makes operation more economic energy.

LK系列低温螺杆式冷冻机组(冷水机组)技术参数
LK series low temperature screw rod type freezing unit (cold waterunit)technical parameters

-20℃低温水冷螺杆式冷冻机组 -20℃ low temperature hydrocooling bolts style freezes an aircraft crew													
规格型号 Model		制冷量 Cooling Capacity		额定 功率 Rated power	冷凝器 Condenser		蒸发器Evapo		机组 净重 Dry weight	运行 重量 Wet weight	外形尺寸 External dimensions		
					水流量 water flow rate	管径 Pipe caliber	冰水 流量 water flow rate	管径 Pipe calibe			长L	宽W	高H
		Kcal/h	KW	KW	L/min	Inch	L/min	Inch	KG	KG	mm	mm	mm
水冷单 机头 Water-one	LK-050WSH	69291	81	36	502	3	439	3	900	1000	2290	700	1350
	LK-060WSH	78408	92	41	566	3	497	3	1150	1350	2290	760	1420
	LK-075WSH	104849	125	56	749	3	657	3	1400	1600	2290	760	1420
	LK-085WSH	120804	137	61	846	4	774	4	1580	1880	2290	760	1420
	LK-120WSH	165478	190	85	1152	5	1057	4	2050	2350	2950	760	1750
水冷双 机头 water-double	LK-100WDH	138582	161	72	1006	4	879	4	1800	2050	3000	820	690
	LK-120WDH	156817	184	82	1132	4	994	4	2320	2570	3000	900	1760
	LK-150WDH	209698	251	112	1498	4	1314	4	2790	3060	3000	900	1760
	LK-180WDH	241608	273	122	1692	5	1548	5	3160	3390	3750	930	1800
	LK-240WDH	330957	380	170	2304	6	2114	5	3900	4350	3750	930	1800
水冷三 机头 Water-three	LK-150WTH	207874	241	108	1509	5	1320	5	2600	2900	3000	1200	1690
	LK-180WTH	235226	275	123	1698	5	1491	5	2750	3050	3000	1250	1760
	LK-210WTH	314547	376	168	2247	6	1971	5	3000	3300	3000	1250	1760
	LK-250WTH	362412	410	183	2538	6	2322	5	4150	4500	3000	1250	1760
	LK-360WTH	496435	571	255	3456	8	3171	6	6300	6600	3750	1400	1890
水冷三 /四机 头 Water-three/ four	LK-420WTH	603108	671	300	4192	6	3806	6	6500	7300	4500	1750	1950
	LK-480WTH	711148	799	357	4946	8	4440	8	6900	7700	4500	1780	1950
	LK-540WTH	779529	886	396	5426	8	4895	8	8800	9800	4500	1780	1950
	LK-660WTH	957315	1121	501	6600	10	6000	10	9400	10400	4500	1850	2100
	LK-720WTH	1069090	1208	540	7355	10	6686	10	9900	10900	4500	1850	2100
-20℃低温风冷螺杆式冷冻机组 -20℃ low temperature hydrocooling bolts style freezes an aircraft crew													
规格型号 Model		制冷量Cooling Capacity		额定 功率 Rated power	冷凝器 Condenser		蒸发器Evapo		机组净 重 Dry weight	运行 重量 Wet weight	外形尺寸 External dimensions		
					风量 Air volume	风机 功率 Motor	冰水 流量 water flow rate	管径 Pipe calibe			长L	宽W	高H
		Kcal/h	KW	KW	MH	KW	L/min	Inch	KG	KG	mm	mm	mm
风冷单 机头 Air-one	LK-050ASH	56527	105	47	38000	2	325	3	1800	1900	3200	1580	2100
	LK-060ASH	64276	118	53	47000	2.5	360	3	1900	2000	3200	1580	2320
	LK-075ASH	85702	164	73	58000	3	480	3	2200	2300	3850	1580	2320
	LK-085ASH	98922	176	79	67000	3.75	540	4	2400	2500	3850	1580	2320
	LK-120ASH	135391	248	111	105000	5	754	4	3500	3700	4860	2300	2650
风冷双 机头 Air-double	LK-100ADH	113054	210	94	79000	4	651	4	2800	3000	4460	2300	2500
	LK-120ADH	128553	237	106	105000	5	720	4	3700	3900	4860	2300	2650
	LK-150ADH	171405	326	146	119000	6	960	4	4000	4300	5832	2300	2650
	LK-180ADH	197845	354	158	136000	8	1080	6	4300	4600	6240	2300	2880
	LK-240ADH	270783	496	222	167000	12	1508	8	5300	5800	8120	2300	2880
电源Power supply							30—50HZ—380V						
制冷剂流量控制 Discharge control							热力膨胀阀 Thermodynamic energy valve						
冷媒Cooling lies quality							R22						
款式Style							半密封螺杆式 Half seals completely screw type						
启动方式Start way							Y—△启动 Y- △start						
容量控制(%)Capacity control (%)							100—75—50—25						
安全保护 Safety protect		压缩机过热保护过流保护、高低压保护、防冻保护、流量开关、相序/缺相保护、排气过热保护Compressor overheat protection, overflowing protection, high and low pressure protection, anti-frost protection, phrase sequence/open phrase protection and exhaust over hot protection											

KW系列水冷开放式冷冻机组(冷水机组)简介

KW series water cooling open style freezing unit (cold water unit)introduces

KW系列水冷开放式冷冻机组（冷水机组），水冷开放式设计，采用名牌控制器件，专业设计壳管式冷凝器、蒸发器，CNC自动化加工，整机测试合格后出厂，安装简易，运行可靠，高效制冷，节能耐用。广泛运用于油温、超声波、高周波机械冷却；射出成型模具冷却；塑胶中空成型冷却；塑胶押出成型冷却；塑胶成型冷却；空调供冷等。

KW series of open water freezing unit (Chiller), and open-water-use control device brand, professional design shell and tube condenser, evaporator, CNC automated processing components manufactured after passing the test, simple installation, reliable and efficient refrigeration, energy durable. The extensive application of temperature, ultrasound, high-frequency/vacuum mechanical cooling; Injection mold cooling; Hollow plastic molding cooling; Extruder cooling plastic molding; plastic molding cooling; such as air-conditioning cooling.



- 全新欧、美、日进口压缩机，内置安全保护，低噪音。
 - 高效外螺纹铜管式冷却器，具有高效热传导作用，体积小，效率高，能节省能源20-25%左右。
 - 采用壳式蒸发器，可内置自动补水装置，节省膨胀水箱，方便安装及保养。适用小温差大流量的工作要求。
 - 精密电子温度控制器，控制水温5-20℃。
 - 内置压缩机超负载保护器，循环水泵超负载，压力故障等。
- A new Europe, the United States, Japan imported compressor, a built-safety protection, and low noise.
 - Threaded brass cooler outside efficient, with high thermal conductivity, small size, high efficiency, 20-25% energy savings.
 - Shell evaporators can be embedded devices automatically pay cut expansion tank to facilitate installation and maintenance. Apply to the large flow of small caloric requirements.
 - A sophisticated electronic temperature controller to control temperature 5-20℃.
 - Compressor built super-load protector. super circulating pump load, such as the breakdown of pressure.

KW系列水冷开放式冷冻机组(冷水机组)技术参数
KW series water cooling open style freezing unit (cold water unit)technical parameter

规格型号 Specification model		KW-100	KW-150	KW-200	KW-300	KW-400	KW-500	KW-600	
制冷量 Refrigeration quantity	Btu/h	99250	148874	198500	297750	397000	496250	595500	
	kw	29	43.5	58	87	116	145	174	
	Kcal/h	25000	37500	50000	75000	100000	125000	150000	
输入电源 Inputs the power source	380V-415V/3PHASE/50HZ								
压缩机功率 Cpmprspr power	KW	7.5	10.8	15	22	30	37.5	45	
节流器 Current regulator	热力膨胀阀 Thermal energy expansion valve								
制冷剂 Refrigerant	R22								
冷凝器 Condenser	形式 Form	壳管式							
冷却水流量 Cooling water current capacity	L/MIN	130	180	260	390	520	650	780	
冷却水接管口径 The cooling water takes over control the	DN/Inch	50/2"	65/2 ¹ / ₂ "	65/2 ¹ / ₂ "	80/3"	100/4"	100/4"	125/5"	
蒸发器 Evaporator	形式 Form	壳管式 Shell tubular							
冷冻水流量 Freezing water current capacity	L/MIN	120	150	230	360	480	560	680	
冷冻水接管口径 The freezing water takes over control the caliber	DN/Inch	50/2"	65/2 ¹ / ₂ "	65/2 ¹ / ₂ "	80/3"	100/4"	100/4"	125/5"	
机器重量 Machine weight	KG	400	610	780	950	1350	1700	2100	
外型尺寸 Outlook Size	长 Long	mm	1500	1800	2200	2200	2200	2500	2500
	宽 Width	mm	600	700	800	800	800	800	800
	高 High	mm	1300	1400	1400	1400	1400	1500	1600

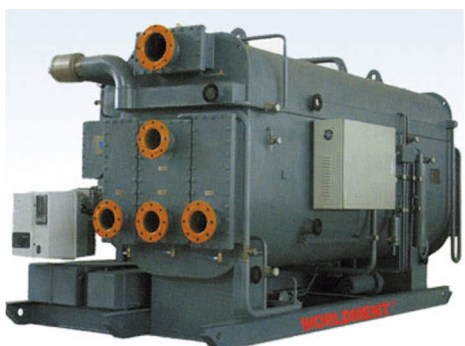


AZ系列溴化锂吸收式冷（热）水机组简介

AZ series absorption cold (hot) water mill

AZ系列溴化锂吸收式冷（热）水机组采用先进的并联溶液循环、低温热交换器后分流的双效或单双效混合流程。产品从20万大卡/时到500万大卡/时，包含14个规格，适合各种不同制冷量及供热量要求的场所。该产品首次将“嵌入式数字模糊控制技术”应用于直燃机，为直燃机产品投入了全新的概念，因而使产品具有了更高效、更环保、更节能及更加人性化等显著特点，该机组在制冷或供热的同时还可以提供卫生热水，一机三用，可减少用户的设备投资和机房面积。产品具有行业领先水平，广泛应用于宾馆、写字楼、商场、影剧院、体育馆、医院、餐馆等需要供冷、供热的场所。

AZ series lithium bromide absorption type cold (hot) the water unit uses the double-effect or the single double-effect mixture length which the advanced parallel solution circuit, the low temperature heat interchanger diverges. Product from 200,000 kilocalories/o'clock to 5,000,000 kilocalories/o'clock, contains 14 specifications, suits each kind of different refrigeration quantity and supplies the thermal request the place. This product "the embedded digital fuzzy control technology" will apply for the first time in burns straight machine, for burnt machine the product to invest the brand-new concept straight, thus caused the product to have more highly effective, the environmental protection, to conserve energy and even more user friendly and so on the remarkable characteristic, this unit also might provide the hygienic hot water during the refrigeration or heating, one machine three used, might reduce the user the equipment investment and the engine room area. The product has the profession leading technical level, widely applies in the guesthouse, the office, the market, the theater, the stadium, the hospital, the restaurant and so on needs to supply, the heating place coldly.



- 高压发生器采用火管式、三回程结构，热交换充分，降低燃料耗量且维修方便，使用寿命长。
- 蒸发器居中而吸收器分为左、右排列，可使浓溶液直接吸收热质，交换更佳。
- 采用独创的汽液分离装置，防止冷剂污染，避免了机组制冷量下降。
- 机组体积比同类产品减小15%，重量减轻10%。与此同时也降低了溶液灌注量，充分利用了有限空间。
- 独创的自由接管方式，可是冷水接管和冷却水接管位置均可根据机房情况灵活安排在同一侧或不同侧，并可以安排在机组前部或后部。
- 控制系统采用了模糊控制原理，充分发挥机组潜能，实现了人性化控制。
- 标准化和互换性蒸汽型和直燃型在相同规格之间，基本可以互换。极大方便了用户和设计单位的选型，也便于日后机组改造或易损件的互换。
- 高气密性维持系统整机，气密性达到国际先进水平，具有高性能自动抽气系统。
- 独到的防结晶装置根据不同工况，自动调整浓溶液浓度与冷剂水量，使冷却水进水温度在21℃—34℃范围内可以安全运行。
- 完善的安全保护装置，除各项常规安全保护装置外，还具有停机自动快速稀释、冷却水低温运转控制等特殊保护措施；此外，还设有燃烧器点火失败、异常熄火停机和燃气泄露的检测装置。
- The use of fire-tube high-voltage generator, and three return structure, full heat exchanger to reduce fuel consumption and easy maintenance. long service life.
- Evaporator having a absorber into left, right arrangement will enable the concentrated solution directly absorbed heat and mass exchange better.
- The original vapor-liquid separation device used to prevent contamination in the cold, refrigeration units to avoid the drop.
- Similar products unit volume decreased 15% and 10% weight reduction. Meanwhile reduce the perfusion solution that makes full use of limited space.
- Colleagues in the Liberal takeover, But cold water under receivership and the cooling water may take over the position of the engine room on the same side or a different side of flexibility, or can be arranged in the front and rear units.
- A control system using fuzzy control, and give full play to their potential units, a human control.
- Standardization and interchangeability and direct-fired steam-between in the same specifications, which can be exchanged. Greatly facilitate the selection and design of the user, but also to facilitate future modifications or a large pieces of the crew swap.
- GASTIGHTNESS maintain high system components, GASTIGHTNESS reached advanced international standards, with high-performance exhaust systems automatically.
- The original defense installations under different crystallization conditions and automatically adjust the concentration of concentrated solution of water and coolant. so that the cooling water inlet temperature of 21 ° C -34 ° C within safe operation.
- Improve protection of the safety devices, in addition to conventional security devices, but also the rapid stands automatically diluted. low-temperature cooling water control operation of special protection measures; It also provides a burner ignition failure. Abnormal stands flameout and gas leakage detection devices.

AZ系列溴化锂吸收式冷（热）水机组技术参数
AZ series absorption cooling (heating) to set parameters

型号 Model			AZ-93	AZ-116	AZ-145	AZ-175	AZ-204	AZ-233	AZ-291	AZ-349	
冷热量 Cold quantity of heat	制冷量 Refrigeration quantity	KW	930	1163	1454	1745	2035	2326	2908	3489	
		10 ⁴ kcal/h	80	100	125	150	175	200	250	300	
	供热量 For quantity of heat	KW	837	1047	1308	1570	1832	2093	2617	3140	
		10 ⁴ kcal/h	72	90	113	135	158	180	225	270	
冷水 Cold water	流量 Current capacity	m ³ /h	160	200	250	300	350	400	500	600	
	接管直径 Takes over control the diameter	mm	150	150	200	200	250	250	250	300	
温水 Lukewarm water	流量 Current capacity	m ³ /h	90	112.5	141.25	168.75	197.5	225	281.25	337.5	
	接管直径 Takes over control the diameter	mm	125	125	150	150	150	200	200	250	
冷却水 Coolwater	流量 Current capacity	m ³ /h	192	240	300	360	420	480	600	720	
	接管直径 Takes over control the diameter	mm	200	200	250	250	250	300	300	350	
燃料 Fuel	轻油 Light oil	制冷耗量 Refrigeration consumption quantity	kg/h	56.6	70.7	88.4	106.1	123.7	141.4	176.8	212.1
		供热耗量 Heating consumption quantity	kg/h	74.0	92.5	115.6	138.8	161.9	185.0	231.3	277.5
		接管直径 Takes over control the diameter	Inch	1/2	1/2	1/2	1/2	1	1	1	1
	天然气 Natural gas	制冷耗量 Refrigeration consumption quantity	m ³ /h	58.8	73.5	91.9	110.3	128.6	147.0	183.8	220.5
		供热耗量 Heating consumption quantity	m ³ /h	76.9	96.2	120.3	144.3	168.4	192.4	240.5	288.6
		接管直径 Takes over control the diameter	mm	50	50	65	65	65	65	80	80
排烟 Discharges fume	排烟温度 Discharges fume the temperature		℃	170 ± 10							
	排烟口尺寸 Discharges fume the mouth size	长Long	mm	250	250	250	300	360	360	400	420
		宽Widty	mm	360	450	500	500	550	550	600	700
电器 Electric appliance	电源 Power source		3 φ 380V/50HZ								
	配电量 Matches the electric quantity	KW	8.3	8.3	8.3	10.1	13.9	15.7	15.7	18.8	
外形尺寸 Contour Size	长 Long		mm	4380	4985	5500	5810	5910	6185	6770	7315
	宽 Widty		mm	2370	2435	2485	2555	2780	2895	3005	3200
	高 High		mm	2360	2460	2570	2640	2840	2835	2895	3165
重量 Weight	溶液重量 Solution weight		ton	3.6	4.2	5.0	5.5	6.3	7.5	9.0	10.5
	运输重量 Shipping weight		ton	12.3	14.5	16.6	19.6	23.4	25.2	27.7	32.7
	运行重量 Movement weight		ton	17.2	20.3	23.1	26.9	31.4	35.5	38.6	44.9

AC 系列气源（空气源）热泵水循环恒温机组简介

AC series air (air source) heat pumps water loop temperature unit introduction

AC 系列气源（空气源）热泵水循环恒温机组是利用空气中所蕴藏的趋于无限的能量，夏天将室内的热量流向温度更高的室外，使房间凉爽；冬天可以利用室外空气中的热量供热，使房间温暖。由于这种中央空调真正的制冷、供暖热量来自室外空气，在夏季制冷时不需要另加冷却水系统，所以运行成本上非常经济，还可节省大量的水资源，同时系统工作时没有任何污染物产生，非常符合我国节能环保的趋势和政策。

AC series air (air source) heat pumps water loop temperature is used in the air deposits tends to infinite energy, the heat flows in the room temperatures higher in the summer outdoor, cool the room; can use heat from the outdoor air heating in the winter, make the room warm. Because of this real central air conditioning refrigeration, heating heat from outdoor air, refrigeration plus cooling water system is not required in the summer, running the very affordable in terms of cost, can also save a lot of water resources, and the system does not work when any pollutant that, very much in line with trends and policy of energy saving and environmental protection in China.



- 安装简单，机组现场安装时，无须冷却塔，大大节省室外设备安装及维护的费用；机组外置，节省建筑空间。
- 环保节能，替代锅炉，洁净环保，节约水资源，提高能源利用率；可超低温环境运行，彻底解决低温寒冷地区供暖问题，有效改善环境状况。
- 技术先进，机组主要配件，均采用国内外知名品牌，以确保机组运行高效可靠；完全参照国际标准，结合每一位用户的实际使用情况而设计，保证满足不同用户的需求。
- 能效比高，高效节能型机组，能效比最高可达4:1以上，超过国家最高级别能效标准。
- 环境适用性强，适用于缺少城市集中供热或供冷系统且对建筑环境及舒适性要求高的项目，或者建筑物空间有限，无法建造空调机房的项目；特别适用于别墅、公寓、商场、写字楼、宾馆、饭店、影剧院、餐饮娱乐等独立大型建筑。
- Simple installation, unit installation, without cooling towers, saving valuable outdoor equipment installation and maintenance costs; external units, saving architectural space.
- Environmental protection and energy saving, alternative boiler, clean environment, saving water resources, improve energy efficiency; to ultra-low temperature environment to run completely solving heating problems in low temperature cold, effectively improve the State of the environment.
- Advanced technology, main parts are well-known brands at home and abroad, to ensure efficient and reliable unit operation; full reference to the international standards, combined with each user's real-world usage and design, to meet different user needs.
- Energy efficiency ratio, high efficiency and energy-saving unit, energy efficiency rate of up to 4:1 per cent, exceeded the national energy efficiency standards at the highest levels.
- Strong environmental adaptability, applies to the lack of urban central heating or cooling systems and the built environment, and projects with a high comfort requirements, or building space is limited, can not build projects of air conditioning room; especially for villas, apartments, shopping malls, office buildings, hotels, restaurants, theaters, dining and other independent large-scale construction.

AC 系列气源 (空气源) 热泵水循环恒温机组参数
AC series air (air source) heat pumps water loop temperature unit parameter

规格型号 Specification model		AC-06	AC-10	AC-20	AC-30	AC-50	AC-60	AC-80	AC-100	AC-120	AC-150	AC-200	AC-250	AC-300	AC-400	AC-500	
制冷量 Cooling capacity	KW	1.5	2.77	5.28	7.91	12.9	15.22	22.96	25.81	29.24	41.33	51.43	58.48	78.26	106.35	134.3	
制热量 Heating capacity	KW	2.13	3.12	6.35	9.28	15.86	18.92	14.56	31.68	36.84	45.72	61.93	73.62	91.88	121.78	152.65	
输入总功率 Total power input	KW	1.01	1.34	2.27	3.33	5.8	6.33	9.25	10.15	11.58	16.6	21	23.8	33.2	44.4	56	
电源 Power source		1PH ~ 220V 50HZ (60HZ)					3PH ~ 380V 50HZ (200V/220V/415V 50HZ/60HZ)										
		(110V 50HZ/60HZ)															
制冷剂 Refrigerant	名称 Name	R22 (R 134a / 407c)															
	控制方式 Control mode	毛细管 Capillary vessel							外平衡式热力膨胀阀 Outside balance-like thermal energy expansion valve								
压缩机 Compressor	类型 Type	全封闭旋转式 Entire seal rotary system					全封闭涡旋式 (活塞式) Entire seal vortex type (plunger type)										
	功率 Power	KW	0.59	0.89	1.77	2.8	4.66	5.2	7.95	8.85	9.98	7.2*2	8.85*2	9.98*2	13.62*2	18.78*2	23.6*2
冷凝器 Condenser	类型 Type	高效紫铜管套铝翅片式 + 低噪音外转子风机 The high-effect red copper pipe box aluminium wing slices dyadic + low noise outside rotator wind machine															
	冷却风量 Cooling amount of wind	m ³ /h	750	1000	2000	3000	5000	6000	8000	10000	12000	15000	20000	25000	30000	40000	50000
蒸发器 Evaporator	类型 Type	水箱盘管 (板式) Water tank plate tube (beat)															
	冷冻水量 Freezing water volume	m ³ /h	0.258	0.476	0.908	1.36	2.22	2.60	3.95	4.52	5.03	7.23	8.84	10.06	13.46	18.29	23.1
	水箱容量 Water tank capacity	L	16	20	40	50	70	70	120	200	200	270	350	350	420	550	600
	进出水管径 Turnover water caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"
水泵 Water pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5
	扬程 Lift	m	25	25	25	20	25	25	25	20	25	25	25	20	25	20	25
安全保护 Safekeeping of security		压缩机过热保护, 过流保护, 高低压力保护, 超温保护, 流量保护, 相序 / 缺相保护, 排气过热保护, 防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection, frostproof protection															
机械尺寸 Mechanical size	长 Long	mm	500	500	580	930	1140	1140	1310	1680	1680	1800	2000	2000	2200	2500	2980
	宽 Width	mm	500	500	550	520	560	560	720	810	810	990	1130	1130	1130	1500	1700
	高 High	mm	725	725	925	975	1040	1040	1270	1280	1280	1680	1720	1914	2026	2250	2300
机械重量 Mechanical weight		Kg	51	75	102	138	177	182	323	453	532	752	838	929	1089	1132	1265

AW系列水源（地源）热泵水循环恒温机组简介

AW series water source (ground source) heat pumps water loop temperature unit introduction

AW系列水源（地源）热泵水循环恒温机组是利用地球表面浅层水源如污水、地下水、河流等，实现低位热能向高位热能转移的一种技术。地球表面浅层水源的温度一般都十分稳定。AW系列水源（地源）热泵水循环恒温机组工作原理就是在夏季将建筑物中的热量转移到水源中，由于水源温度低，所以可以高效地带走热量，而冬季，则从水源中提取能量，由热泵原理通过空气或水作为载冷剂提升温度后送到建筑物中。通常水源热泵消耗1KW的能量，用户可以最大得到4KW以上的热量或冷量。

AW series water source (ground source) heat pumps water loop temperature is the use of the Earth's surface in shallow water such as sewage, groundwater, rivers, and so on, a technology to achieve low heat high heat transfer. Shallow water of the Earth's surface temperature is generally very stable. AW series water source (ground source) heat pumps water loop temperature unit is move heat from the building to the water in the summer, because of the low water temperature, so you can efficiently take heat, and winter, extracting energy from water, by the principle of heat pump through the air or water as refrigerant elevated temperature to buildings. Typically water-source heat pumps consume 1KW of energy users can maximum be above 4KW heat or cold.



- 清洁环保，利用清洁可再生能源，最大限度的解决了环境污染问题；水源热泵机组的运行中没有燃烧，没有排烟污染，没有废弃物产生。
- 高效节能，采用“大温差、小流量”设计思想，节约水资源；制冷、制热能效比高；运用先进的水源热泵自动化控制技术实现自动调整负荷输出，合理节能。
- 节省费用，一机多用，制冷、采暖、生活热水统一解决，大大降低初投资；运行费用最低廉。
- 适用范围广，可以充分利用各种水源，如地下水、地表水、江水、河水、湖水、水库水、海水、地热尾水、城市污水、坑道水等。
- 配置精良，选用进口名牌涡旋式压缩机，性能可靠；换热效率高，且对水质要求低；采用亲水铝箔材质的风冷换热翅片，除霜更均匀彻底；可选择不锈钢或高级喷塑钣金，抗腐蚀能力更强。
- 环境适用性强，适用于对节能环保节水性能要求高、实现空调最佳经济性的项目；适用于建筑物周边有可利用的人工再生水源的项目；适用于建筑物周边有丰富水源可供利用，但不能对水体造成破坏的项目；特别适用于沿海、沿江河、傍湖及有丰富地热资源的城市建筑。
- Clean, use of clean renewable sources of energy, maximize solution to the pollution problem; water source heat pump runs without burning, no smoke pollution, there is no waste.
- Energy-efficient, using "large temperature differences, small flow" design, saving water resources; cooling, heating energy efficiency ratio; the use of advanced automatic control technology of water source heat pump for automatic adjustment of load output, reasonable energy saving.
- Cost savings, a multi-purpose machines, refrigeration, heating, domestic hot water uniform solutions, significantly reduces initial investment; lowest operating costs.
- Wide range of application, can take advantage of a variety of sources, such as groundwater, surface water, water, River, Lake, reservoir, water, geothermal water, urban sewage, water tunnels, and so on.
- Configure sophisticated, imported brand-name scroll compressor, reliable performance; for high thermal efficiency and low demand for water quality; use of the hydrophilic foil material fins of air-cooling heat, defrost more evenly and complete; you can select stainless steel or high spraying sheet metal, corrosion resistance strong.
- Environment applicability strong, applies Yu on energy-saving environmental water saving performance requirements high, and achieved air conditioning best economic sexual of project; applies Yu building around has can uses of artificial regeneration water of project; applies Yu building around has rich water can for uses, but cannot on water caused damage of project; special applies Yu coastal, and along the River, and Pong Lake and the has rich geothermal resources of city building.

AW系列水源（地源）热泵水循环恒温机组参数

AW series water source (ground source) heat pumps water loop temperature unit parameters

规格型号 Specification model		AW-06	AW-10	AW-20	AW-30	AW-50	AW-60	AW-80	AW-100	AW-120	AW-150	AW-200	AW-250	AW-300	AW-400	AW-500	
制冷量 Cooling capacity	KW	1.92	2.97	5.98	9.2	15	17.5	26.7	30.9	34	48.1	59.8	68	91	123.6	156.2	
制热量 Heating capacity	KW	2.13	3.12	6.75	9.28	16.86	19.92	15.56	32.68	37.84	46.72	62.93	74.62	92.88	123.78	155.65	
输入总功率 Total power input	KW	1.01	1.34	2.27	3.33	5.8	6.33	9.25	10.15	11.58	16.6	21	23.8	33.2	44.4	56	
电源 Power source		1PH ~ 220V 50HZ (60HZ)				3PH ~ 380V 50HZ (200V/220V/415V 50HZ/60HZ)											
		(110V 50HZ/60HZ)															
制冷剂 Refrigerant	名称 Name	R22 (R 134a / 407c)															
	控制方式 Control mode	毛细管 Capillary vessel						外平衡式热力膨胀阀 Outside balance-like thermal energy expansion valve									
压缩机 Compressor	类型 Type	全封闭旋转式 Entire seal rotary system					全封闭涡旋式（活塞式） Entire seal vortex type (plunger type)										
	功率 Power	KW	0.59	0.89	1.77	2.8	4.66	5.2	7.95	8.85	9.98	7.2*2	8.85*2	9.98*2	13.62*2	18.78*2	23.6*2
冷凝器 Condenser	类型 Type	壳管式 Shell tubular															
	冷却水量 Freezing water volume	m ³ /h	0.5	0.7	1.5	2.1	3.5	3.6	6.2	6.9	7.9	10.6	13.9	15.8	21.1	28.7	36.3
	进出水管径 Turnover water caliber	inch	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	3"	3"	4"
蒸发器 Evaporator	类型 Type	水箱盘管（板式） Water tank plate tube (beat)															
	冷冻水量 Freezing water volume	m ³ /h	0.35	0.56	1.02	1.58	2.58	3.04	4.59	5.34	5.85	8.36	10.3	11.69	15.65	21.25	26.86
	水箱容量 Water tank capacity	L	16	20	40	60	60	90	150	200	200	330	330	350	450	580	580
	进出水管径 Turnover water caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"
水泵 Water pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5
	扬程 Lift	m	25	25	25	20	25	25	25	20	25	25	25	20	25	20	25
安全保护 Safekeeping of security		压缩机过热保护，过流保护，高低压力保护，超温保护，流量保护，相序/缺相保护，排气过热保护，防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection, frostproof protection															
机械尺寸 Mechanical-size	长 Long	mm	600	600	600	890	890	890	1170	1170	1170	1650	1650	1880	1880	1880	2000
	宽 Width	mm	350	350	350	500	500	500	710	710	710	710	710	710	810	910	980
	高 High	mm	650	650	650	840	840	840	1200	1200	1200	1800	1800	1800	1800	1950	1950
机械重量 Mechanical weight		Kg	55	80	110	135	155	175	312	450	510	745	835	950	1170	1250	1580

AF系列风冷模块式冷（热）水机组简介

AF series air-cooled module type cold (hot) water unit brief introduction

AF系列风冷模块式冷（热）水机组微电脑智能化控制，可与末端设备进行联控。控制功能齐全，能动态显示、检测、记录机组运行的各种参数。可实地控制，也可实现远程控制，并能控制单台或多台模块机组并联运行。自动运行，无须人工值守。全封闭压缩机匹配，进口制冷配件，保证超长无故障运行时间。多层次自动保护装置，全面保护机组正常使用。故障自诊断、自动记录、自动报警功能，全面监控机组运转。模块化设计组合，智能柔性控制，各台压缩机可以按照系统负荷的变化自动启停。在电脑控制下能均衡各模块的运行时间，延长机组作用寿命。可根据不同的气候特点和用户的使用要求灵活设定工作参数，调节到最佳节能使用状态。不消耗冷却水，不污染环境，健康环保。减震降噪设计，运转宁静，减少噪声污染。

AF series air-cooled module type cold (hot) water unit microcomputer intelligent control, can be associated with a terminal device by combined control. Complete control functions, can be dynamic display, detection, recording unit operation, various parameters. Field control, also can realize remote control, and can control the single or multiple module unit parallel running. Automatic operation, no need for artificial lights. The closed compressor matching, imports refrigeration accessories, ensure long trouble-free operation time. Multi level automatic protection device, the comprehensive protection of the unit normal use. Since the fault diagnosis, automatic recording, automatic alarm function, a comprehensive monitoring unit operation. Combination of modular design, intelligent and flexible control, the compressor can according to the load changes automatically start and stop. Under the control of a computer can balance the module operation time, prolong the service life of machine. According to different climate characteristics and the requirements of the users flexible set of operating parameters, adjusted to the best state of energy use. Cooling water consumption, no environmental pollution, environmental health. Damping and noise reduction design, quiet running, reducing noise pollution.



- 全优设计，高效节能，高效涡旋式压缩机并联运行，主机根据出水温度来控制压缩机的开启，达到更大限度的节能。双热力膨胀阀设计，制冷、制热分开控制，自动温控降压，能量调节更精确。
- 运行噪音低，世界一流涡旋压缩机，低噪音运转。低噪音风机，运转噪音小。面板内侧加贴优质吸音材料，降低运转噪音。
- 控制智能化，操作简便、安全，机组具有自诊断技术，压缩机均衡工作控制，系统和模块故障信号显示和外控输出，风盘联动控制等强大功能。
- 模块化自由组合，安装方便，性能稳定模块化的系统设计，使每一个制冷系统各自独立，互为备用。任何一个制冷环路发生异常情况都不会影响其他环路的正常运行。
- 网络通讯能力，既可实现多台主机联网群控，也可与多种通讯协议公开的智能设备进行联网通讯。

- Excellent design, high efficiency and energy saving, high-efficiency scroll compressor operating in parallel. According to the mainframe, such as water temperature to control the compressor to achieve a greater measure of energy. Two thermal expansion valve design, refrigeration, heating separate control, automatic temperature control hypertension, a more accurate energy regulation.
- Low noise operation, a world-class scroll compressor, low noise operation. Low noise fans, noise small operation. Face medial early for an add-quality sound-absorbing materials, to reduce operating noise.
- Intelligent control, the operation is simple, safe, self-diagnosis unit, a balanced work compressor control Fault System and modules and external control signals output, the wind so powerful disk-axis control function.
- A group of modular, easy installation, stable performance modular system design, so that each independent refrigeration system. stand each other. Refrigeration loop anomalies have occurred in any other loop will not affect the normal operation.
- Network communications, can realize multiple server networking group control. have the wisdom of the agreement with a variety of communications equipment for networking communications.

AF系列风冷模块式冷（热）水机组技术参数
AF series air-cooled module type cold (hot) water machine technical parameters

型 号 Model		AF-150	AF-200	AF-300	AF-400	AF-150R	AF-200R	AF-300R	AF-400R	
制冷量 Refrigeration quantity	kw	40	60	80	120	40	60	80	120	
制热量 System quantity of heat	kw	—				42	64	85	128	
机组制冷功率 Unit refrigeration power	kw	13.06	19.60	27.10	38.40	13.06	19.60	27.10	38.40	
机组制热功率 Unit system thermal power	kw	—				13.04	19.58	26.90	38.20	
最大功率 Maximum work rate	kw	19	29	36	52	19	29	36	52	
启动电流 Starting current	A	40	60	70	110	40	60	70	110	
噪声 Noise	dB(A)	64	67	69	72	64	67	69	72	
电源 Power source	3N ~ 380V 50HZ									
运转控制 Operating control	微电脑全自动控制，运行状态显示，异常状态报警 The microcomputer entire automatic control, the running status demonstrated that, the abnormal state reports to the police									
安全装置 Safety device	高低压开关、防冻结开关、过流保护器、相序保护器、压缩机过热保护装置，软件延时启动压缩机保护 The high and low pressure switch, guards against freezes the switch, has flooded the protector, the foreword protector, the compressor excessively hot protective device, the software time delay starting compressor protection									
压缩机 Safety	形式 Form	全封闭涡旋式 Entire seal vortex type								
	功率 Power	kw	6.25 × 2	9.05 × 2	12.4 × 2	17.7 × 2	6.25 × 2	9.05 × 2	12.4 × 2	17.7 × 2
制冷剂 Refrigerant	R22									
充注量 Sufficient note quantity	kg	6.3 × 2	9.5 × 2	12.7 × 2	19 × 2	6.3 × 2	9.5 × 2	12.7 × 2	19 × 2	
水路系统 Waterway system	水量 Water volume	m ³ /h	6.9	10.3	13.7	20.6	6.9	10.3	13.7	20.6
	水阻力损失 Water resistance loss	Kpa	5.9	9.84	14.76	8.37	5.9	9.84	14.76	8.37
	水侧换热器 Waterheat exchanger	高效壳管式换热器 Highly effective shell tubular heat exchanger								
	最高承压 Highest bearing pressure	Mpa	1							
进出水管径 Turnover water caliber	mm	DN50	DN65	DN65	DN80	DN50	DN65	DN65	DN80	
空气 侧换热器 Air side trading	型式 Pattern	高效翅片盘管式 highly effective wing bobbin tubular								
	空气流量 Air flow	m ³ /h	1.9 × 10 ⁴	2.8 × 10 ⁴	3.7 × 10 ⁴	5.6 × 10 ⁴	1.9 × 10 ⁴	2.8 × 10 ⁴	3.7 × 10 ⁴	5.6 × 10 ⁴
	风机输入功率 Air blower Power input	kw	0.30 × 2	0.75 × 2	1.15 × 2	0.75 × 4	0.30 × 2	0.75 × 2	1.15 × 2	0.75 × 4
外形尺寸 Outliik size	长 Long	mm	1810	2110	2110	2410	1810	2100	2100	2410
	宽 Width	mm	1000	1100	1100	1900	1000	1100	1100	1900
	高 High	mm	1740	2140	2140	2240	1740	2140	2140	2240
机组总重量 Unit gross weight	kg	600	950	1100	1700	600	950	1100	1800	
用户选配 The user selects and matches	辅助电加热 Auxiliary electric heating	kw	—				15	15	30	30

AY系列风冷柜式冷风机（空气恒温调节机）组简介

AY series air-cooled Cabinet cooler (air temperature adjustment machine) group profile

AY系列风冷柜式冷风机（空气恒温调节机）组也可以称作移动式空调机（组），主要应用于局部环境区域制冷降温。对注塑机、通讯设备、机床配电箱以及需要急速冷却的各种工业机械和设备的发热部件降温,以提高设备的工作效率,延长使用寿命。需要通风,无法封闭的工作场,如室外展会场、酒店后场、建筑工地、机场码头等整体空间安装空调困难的场所,给工作人员祛暑降温,提供凉爽舒适的工作环境。用于户外运动休场所,如高尔夫球场,户外泳场,烧烤场等。对无铅波峰焊、无铅回流焊等封闭流水线中产品的降温,以提高产品质量,确保产量。办公楼临时需要空调降温（作为中央空调伴侣）、厨房、机房、仪器室、街铺、野外施工办公室、户外帐篷、板房等非常住性场所降温。

AY series air-cooled Cabinet cooler (air temperature adjustment machine) groups can also be referred to as mobile air conditioning machines (groups), mainly used in local regional refrigeration cooling. Injection molding machines, communications equipment, power distribution box and the need for rapid cooling of machine tool industrial machinery and hot parts of the device cools to improve device efficiency and prolong life. Need ventilation, fails to close, such as outdoor exhibition venue, hotels, construction sites, airport terminals and other places of the overall difficulties of space to install air conditioning, to cool the staff drive away summer heat, providing a cool and comfortable working environment. For outdoor activities take place, such as golf courses, outdoor swimming, barbecue. For lead-free wave soldering, reflow soldering and other closed lines in the cool products, to improve product quality, ensure production. Office building of temporary air conditioning cooling (as central air conditioning partners), kitchen, room, equipment room, street paving and construction Office, outdoor tent outdoor, room, very cool the living place.



- 结构合理紧凑、整体箱式设计宁静、美观且方便操作和维护管理。
- 系统可采用多级制冷，确保出风温度。
- 采用国际名牌压缩机，质量可靠、高效节能。
- 采用名牌高效冷凝电机和国际名牌离心风机，风量大，振动小，噪音低，寿命长。
- 采用世界名厂设备制造的高效冷凝器和蒸发器，换热效果好，冷量充足。
- 采用进口知名品牌温控，有多种设定和故障功能，只需一键操作（开关键），其他均由记忆功能自动实现。
- 独特的冷风回收口设计，节约成本。
- 带有自动除霜功能，用户也可根据需要设置手动除霜模式。
- 冷却效率大，可超过20°C/秒。



- Box-type design quiet, reasonable and compact structure, overall appearance and convenient operation and maintenance.
- Multistage cooling of the system, ensure that the air temperature.
- Adopt international brand compressor, reliable quality, high efficiency and energy saving.
- Adopts famous brand and international brand of high efficiency condensing motor centrifugal fan, large air volume, low vibration, low noise, long service life.
- World famous equipment manufacture high performance condensers and evaporators, heat exchange efficiency is good, cold enough.
- Temperature control of imported brands, have several features set and failure, just a key operation (button only), the other by the memory function automatically.
- Unique design of cold recycling, saving cost.
- With automatic defrost function, users can also be set manually defrost mode.
- The cooling efficiency, can exceed 20 ° c/sec.

AY系列风冷柜式冷风机（空气恒温调节机）组参数
AY series air-cooled Cabinet cooler (air temperature adjustment) set of parameters

规格型号 Specification model		AY-06	AY-10	AY-20	AY-30	AY-50	AY-60	AY-80	AY-100	AY-120	AY-150	AY-200	AY-250	AY-300	AY-400	AY-500		
制冷量 Cooling capacity	KW	1.5	2.77	5.28	7.91	12.9	15.22	22.96	25.81	29.24	41.33	51.43	58.48	78.26	106.35	134.3		
	Kcal/h	1290	2382	4541	6803	11094	13091	19746	22188	25146	35652	44230	50293	67304	91461	115498		
输入总功率 Total power input		KW		1.01	1.34	2.27	3.33	5.8	6.33	9.25	10.15	11.58	16.6	21	23.8	33.2	44.4	56
电源 Power source		1PH ~ 220V 50HZ (60HZ)				3PH ~ 380V 50HZ (200V/220V/415V 50HZ/60HZ)												
		(110V 50HZ/60HZ)																
制冷剂 Refrigerant	名称 Name	R22 (R 134a / 407c)																
	控制方式 Control mode	毛细管 Capillary vessel						外平衡式热力膨胀阀 Outside balance-like thermal energy expansion valve										
压缩机 Compressor	类型 Type	全封闭旋转式 Entire seal rotary system				全封闭涡旋式（活塞式） Entire seal vortex type (plunger type)												
	功率 Power	KW		0.59	0.89	1.77	2.8	4.66	5.2	7.95	8.85	9.98	7.2*2	8.85*2	9.98*2	13.62*2	18.78* 2	23.6*2
冷凝器 Condenser	类型 Type	高效紫铜管套铝翅片式 + 低噪音外转子风机 The high-effect red copper pipe box aluminium wing slices dyadic + low noise outside rotator wind machine																
	冷却风量 Cooling amount of wind	m ³ /h		750	1000	2000	3000	5000	6000	8000	10000	12000	15000	20000	25000	30000	40000	50000
蒸发器 Evaporator	类型 Type	高效紫铜管套铝翅片式 + 静音高效离心风机 High efficiency copper tube aluminium finned + mute high efficiency centrifugal fan																
	出风管径 Outlet pipe diameter	m ³ /h		650	800	1800	2800	4500	5500	7500	9500	10000	14000	18000	22000	28000	38000	48000
	冷冻风量 Freezing amount of wind	inch		1"	1"	1"	2"	2"	2"	2"	3"	3"	4"	4"	5"	5"	6"	6"
安全保护 Safekeeping of security		压缩机过热保护，过流保护，高低压力保护，超温保护，流量保护，相序 / 缺相保护，排气过热保护，防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection, frostproof protection																
机械尺寸 Mechanical size	长 Long	mm		500	500	580	930	1140	1140	1310	1680	1680	1800	2000	2000	2200	2500	2980
	宽 Width	mm		500	500	550	520	560	560	720	810	810	990	1130	1130	1130	1500	1700
	高 High	mm		725	725	925	975	1040	1040	1270	1280	1280	1680	1720	1914	2026	2250	2300
机械重量 Mechanical weight		Kg		51	75	102	138	177	182	323	453	532	752	838	929	1089	1132	1265

AH系列水冷柜式冷风机（空气恒温调节机）组简介

AH series water-freezer cooler (air temperature adjustment machine) group profile

AH系列水冷柜式冷风机（空气恒温调节机）组积聚多年专业生产经验，综合国内外各名优产品之长处，及严格参照国际标准为满足用户需要而开发的具有国际国内先进水平的冷风机（空气恒温调节机）组。同时可根据用户要求实现对空气的加热、冷却、加湿、过滤、净化、杀菌等多种功能的任意组合；广泛应用于宾馆、商场、机场、医院、写字楼等大中型公共建筑的舒适性空调和电子、纺织、化工、制药、食品等行业的工艺性空调。AH系列水冷柜式冷风机（空气恒温调节机）组不仅具有优越的制冷供热性能、噪声低、结构紧凑、重量轻、安装维修方便的优点，而且还可以选配变频调控或多控无级调速，按四季不同工况进行风量调节运行，因此特别适用于建筑物紧凑的工矿企事业单位的各类空调工程场合使用。

AH series water-freezer cooler (air temperature adjustment machine) group to accumulate many years of professional experience, comprehensive strengths of the famous at home and abroad, and strict conformity with international standards in order to meet user needs and the development of international and domestic advanced level cooler (air temperature adjustment machine) group. While according to user requirements for heating, cooling, humidification, air filters, purification, sterilization and other features in any combination; widely used in hotels, shopping malls, airports, hospitals, office buildings and other large and medium sized public buildings comfort air cell and electronic, textile, chemical, pharmaceutical, food industry technology of air conditioning. AH series water freezer type cold air machine (air thermostat regulation machine) group not only has superior of refrigeration heating performance, and noise low, and structure compact, and weight light, and installed maintenance convenient of advantages, and also can matching frequency regulation or more controlled no level adjusting speed, by seasons different workers condition for air regulation run, therefore special applies Yu building Compact of mining enterprises of various empty apoptosis engineering occasions using.



- 箱体框架为铝合金型材骨架；壁板为聚氨酯整体发泡，也可采用高倍聚乙烯壁板或玻璃棉壁板，结构防锈耐蚀，美观耐用，箱体漏风率小。
- 采用低噪声高效率外转子离心风机，风机经精密平衡校正，确保机组运行于稳，使之具有噪声低、振动小，性能优越。
- 表冷器主体采用优质无缝紫铜管和高纯度铝箔，经先进的机械或液压胀管工艺使之紧密一体，后经严格的气压密封检漏测试，性能符合美国ARI标准，保证了产品优越的性能和可靠的质量。
- 精心设计的凝水盘和特厚内衬保温材料确保机组在恶劣环境工况下无凝露滴水。凝水盘黄金角度安装，有利于凝结水排放。同时凝结水管按非满流状态计算，排放能力为机组正常运行时排放量的5倍以上。凝结水的及时排放减少凝水盘的触水时间，既有利于减轻凝水盘的腐蚀又避免凝水盘滋长细菌，保证了室内空气品质。
- 特别设计的专用板式过滤器可任意从机组左右、上下方便地抽出，所以特别适用于空间紧凑场合的维护清洗，滤料采用锦纶凹凸网或无纺布材质。
- Cabinet frames for aluminum skeleton; wall Board is polyurethane integral foaming, or high polyethylene or glass wool wall plate wall plates, structural rust corrosion, attractive and durable box small air leakage rate.
- Efficient low noise centrifugal fan with external rotor, fan by precision balance calibration, ensure that the unit is running in steady, so that it has low noise, little vibration, and superior performance.
- Seamless copper tube coolers made of high quality and high purity aluminium foils, mechanical or hydraulic tube expansion process, as advanced compact one, strictly after pressure seal leak detection tests, performance in line with United States ARI standards to ensure superior product performance and reliable quality.
- Carefully designed condensed water tray and extra thick lining under harsh environmental conditions, the insulation material to ensure that the crew no dew drop. Condensate tray the Golden angle, conducive to condensation water discharge. While condensing water full flow state juice count, capacity for emissions during normal operation of the unit more than 5 times. Condensate water contact time of emission reduction system in a timely manner, which helps reduce the corrosion of water tray avoiding coagulation coagulation water plate growing bacteria to ensure indoor air quality.
- The special design of the special plate filter can be any unit left and right, up and down easily taken out, it is particularly applicable to space compact maintenance cleaning, filter nylon bump networks or non-woven material.

AH系列水冷柜式冷风机（空气恒温调节机）组技术参数 AH series water-freezer cooler (air temperature adjustment) set of technical parameters

规格型号 Specification model		AH-06	AH-10	AH-20	AH-30	AH-50	AH-60	AH-80	AH-100	AH-120	AH-150	AH-200	AH-250	AH-300	AH-400	AH-500	
制冷量 Cooling capacity	KW	1.92	2.97	5.98	9.2	15	17.5	26.7	30.9	34	48.1	59.8	68	91	123.6	156.2	
制热量 Heating capacity	KW	2.13	3.12	6.75	9.28	16.86	19.92	15.56	32.68	37.84	46.72	62.93	74.62	92.88	123.78	155.65	
输入总功率 Total power input	KW	1.01	1.34	2.27	3.33	5.8	6.33	9.25	10.15	11.58	16.6	21	23.8	33.2	44.4	56	
电源 Power source		1PH ~ 220V 50HZ (60HZ)					3PH ~ 380V 50HZ (200V/220V/415V 50HZ/60HZ)										
		(110V 50HZ/60HZ)															
制冷剂 Refrigerant	名称 Name	R22 (R 134a / 407c)															
	控制方式 Control mode	毛细管 Capillary vessel					外平衡式热力膨胀阀 Outside balance-like thermal energy expansion valve										
压缩机 Compressor	类型 Type	全封闭旋转式 Entire seal rotary system					全封闭涡旋式（活塞式） Entire seal vortex type (plunger type)										
	功率 Power	KW	0.59	0.89	1.77	2.8	4.66	5.2	7.95	8.85	9.98	7.2*2	8.85*2	9.98*2	13.62*2	18.7*2	23.6*2
冷凝器 Condenser	类型 Type	高效紫铜管套铝翅片式 + 低噪音外转子风机 The high-effect red copper pipe box aluminium wing slices dyadic + low noise outside rotator wind machine															
	冷却水量 Freezing water volume	m ³ /h	0.5	0.7	1.5	2.1	3.5	3.6	6.2	6.9	7.9	10.6	13.9	15.8	21.1	28.7	36.3
	进出水管径 Turnover water caliber	inch	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	3"	3"	4"
蒸发器 Evaporator	类型 Type	高效紫铜管套铝翅片式 + 静音高效离心风机 High efficiency copper tube aluminium finned + mute high efficiency centrifugal fan															
	冷冻风量 Freezing amount of wind	m ³ /h	650	800	1800	2800	4500	5500	7500	9500	10000	14000	18000	22000	28000	38000	48000
	出风管径 Outlet pipe diameter	inch	1"	1"	1"	2"	2"	2"	2"	3"	3"	4"	4"	5"	5"	6"	6"
安全保护 Safeguarding of security		压缩机过热保护，过流保护，高低压力保护，超温保护，流量保护，相序/缺相保护，排气过热保护，防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the forward/lacks protects, has exhausted the hot protection, frostproof protection															
机械尺寸 Mechanical size	长 Long	mm	600	600	600	890	890	890	1170	1170	1170	1650	1650	1880	1880	1880	2000
	宽 Width	mm	350	350	350	500	500	500	710	710	710	710	710	710	810	910	980
	高 High	mm	650	650	650	840	840	840	1200	1200	1200	1800	1800	1800	1800	1950	1950
机械重量 Mechanical weight		Kg	53	79	109	132	153	170	310	430	508	740	830	930	1160	1230	1550

YK系列一体风冷式精密冷冻机（冷水机）简介

YK series body forced-air cooling type precision freezer (chiller) introduces

YK系列一体风冷式精密冷冻机（冷水机）具有体积小、安装使用方便、在室内可任意移动等特点。因压缩机、水泵、温控表、压力控制等使用的是进口产品，所以可靠性高，噪声低。蒸发器可采用纯钛金属或不锈钢板换制成，耐腐蚀、抗冻、这类机型被广泛地用于扫描电镜、原子吸收、ICP、激光器、真空镀膜机、离子刻蚀机、氧氮分析仪、衍射仪、荧光光谱仪等分析仪器中，以及医疗仪器、机床设备及液压系统中。

YK series of integrated precision air-cooled chillers (Cool-water) is small in size, easy to install, Indoor arbitrary features in mobile. By the compressor, pumps, temperature control table, and pressure control products used are imported, high reliability and low noise. Evaporator used for titanium metal or stainless steel plate is made of corrosion resistant, antifreeze, these models have been widely used in scanning electron microscopy. AAS, ICP, laser, vacuum plating mold, ion-etching machine, oxygen and nitrogen analyzer, diffraction. Fluorescence spectroscopy and other analytical instruments, and medical equipment, machine tools and other equipment and hydraulic systems.



- 机组制冷系统的组合形式灵活多样，可根据制冷方式和控制方式的需要选择板换或钛盘管。板换热交换效率高，但钛盘管抗冻能力强。
- 机组多采用间歇工作方式（低温蓄冷或上下限），节能（节能效果据测算比热气旁通方式要节约20% - 40%），延长了压缩机的寿命，（比热气旁通方式至少提高30%）。温度控制准确、稳定。低温蓄冷方式为PID动态跟踪控制方式，水温控温精度可达 $\pm 0.5^{\circ}\text{C}$ 。上下限控制方式水温可控范围为 $\pm 2^{\circ}\text{C}$ 。
- 钛盘管蒸发器具有热交换效率高、耐腐蚀、抗冻能力极强的特点。即使在运行过程中发生结冻的情况，蒸发器也不会损坏
- 机型多、种类全、适合于各种场合。
- 操作十分简便，只需按启动开关，机组即进入工作状态状态。
- 本机组为单元化组件式设计结构，因此维修十分方便、快捷、可减少维修费用，及故障停机时间。
- 本机组的所有关键部件都采用世界知名品牌产品，所以性能稳定可靠，故障极低。
- 本公司具有强大的设计、制造能力，可根据客户的具体要求设计制造非标产品。



- The unit refrigeration system flexible and diversified portfolio. under refrigeration and control panels on the need for or titanium coil. Heat exchange of high efficiency, strong titanium coil antifreeze.
- The use of intermittent work unit (or low temperature storage on the floor). Energy (energy saving mode to bypass It is estimated savings of 20 to 40% compared with the heat), extending the life of the compressor. (at least 30% higher than the steam bypass mode). Accurate temperature control and stability. PID control for tracking low-temperature storage methods, temperature accuracy of $\pm 0.5^{\circ}\text{C}$ temperature control. On the minimum controllable range of $\pm 2^{\circ}\text{C}$ temperature control.
- Titanium evaporator coil heat exchanger efficiency with high corrosion resistance, the ability of the characteristics of antifreeze. Even occurred in the course of operation of the garage, evaporator will not damage.
- Aircraft, all types. suitable for all occasions.

- The operation is simple, just switch activated by the crew that entered a state of the state work.
- The crew module for the design of structural components, maintenance is very convenient, fast and can reduce maintenance costs. and failure downtime.
- The crew of all the key components are used world-famous brand-name products, so its performance is stable and reliable, fault very low.
- The company has a great design, manufacturing capacity, according to the specific requirements of customers design and manufacture of non-standard products.

YK系列一体风冷式精密冷冻机（冷水机）技术参数
AY series air-cooled Cabinet cooler (air temperature adjustment) set of parameters

规格型号 Specification model			YK-06	YK-10	YK-20	YK-30	YK-50	YK-60	YK-80	YK-100	YK-120	YK-150	YK-200	YK-250	YK-300	YK-400	YK-500	
标准 制冷量 Standard refrigeration quantity	50HZ 60HZ	Kcal/ h	1290 1514	2382 2786	4541 5315	6803 7955	11094 13235	13091 15901	19746 23521	22188 26478	25146 29661	35652 42162	44230 52064	50293 59314	67304 80324	91461 109168	115498 138460	
	50HZ 60HZ	KW	1.5 1.76	2.77 3.24	5.28 6.18	7.91 9.25	12.9 15.39	15.22 18.49	22.96 27.35	25.81 30.79	29.24 34.49	41.33 48.7	51.43 60.54	58.48 68.97	78.26 99.4	106.35 126.94	134.3 161	
输入总功率 Total power input		KW	1.01	1.34	2.27	3.33	5.8	6.33	9.25	10.15	11.58	16.6	21	23.8	33.2	44.4	56	
电源 Power source			1PH ~ 220V 50HZ (60HZ)					3PH ~ 380V 50HZ (200V/220V/415V 50HZ/60HZ)										
			(110V 50HZ/60HZ)															
制冷剂 Refrigerant	名称 Name		R22 (R 134a / 407c)															
	控制方式 Control mode		毛细管 Capillary vessel					外平衡式热力膨胀阀 Outside balance-like thermal energy expansion valve										
压缩机 Compressor	类型 Type		全封闭旋转式 Entire seal rotary system					全封闭涡旋式（活塞式） Entire seal vortex type (plunger type)										
	功率 Power	KW	0.59	0.89	1.77	2.8	4.66	5.2	7.95	8.85	9.98	7.2*2	8.85*2	9.98*2	13.62*2	18.78*2	23.6*2	
冷凝器 Condenser	类型 Type		高效紫铜管套铝翅片式 + 低噪音外转子风机 The high-effect red copper pipe box aluminium wing slices dyadic + low noise outside rotator wind machine															
	冷却 风量 Cooling amount of wind	m ³ /h	750	1000	2000	3000	5000	6000	8000	10000	12000	15000	20000	25000	30000	40000	50000	
蒸发器 Evaporator	类型 Type		水箱盘管（板式） Water tank plate tube (beat)															
	冷冻 水量 Freezing water volume	m ³	0.258 0.303	0.476 0.557	0.908 1.063	1.36 1.59	2.22 2.65	2.60 3.20	3.95 4.7	4.52 5.31	5.03 5.93	7.23 8.43	8.84 10.41	10.06 11.86	13.46 16.06	18.29 21.83	23.1 27.69	
	水箱容 量 Water tank capacity	L	16	20	40	50	70	70	120	200	200	270	350	350	420	550	600	
	进出水 管径 Turnover water caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"	
水泵 Water pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5	
	扬程 Lift	m	25	25	25	20	25	25	25	20	25	25	25	20	25	20	25	
安全保护 Safekeeping of security			压缩机过热保护，过流保护，高低压力保护，超温保护，流量保护，相序/缺相保护，排气过热保护，防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection, frostproof protection															
机械尺寸 Mechanical size	长 Long	mm	500	500	580	930	1140	1140	1310	1680	1680	1800	2000	2000	2200	2500	2980	
	宽 Width	mm	500	500	550	520	560	560	720	810	810	990	1130	1130	1130	1500	1700	
	高 High	mm	725	725	925	975	1040	1040	1270	1280	1280	1680	1720	1914	2026	2250	2300	
机械重量 Mechanical weight		Kg	50	73	100	135	175	180	320	450	530	750	835	920	1080	1125	1250	

FK系列分体风冷式精密冷冻机（冷水机）简介

FK series fission forced-air cooling type precision freezer (chiller) introduces

FK系列分体风冷式精密冷冻机（冷水机）分为室内机和室外机两部分。压缩机、冷凝器、风扇安装在室外，因此热量全部排于室外，且室内机体积小、噪声低。压缩机、水泵、温控表、压力控制等关键部件都使用进口产品，可靠性高。蒸发器采用纯钛金属或不锈钢板换制成，耐腐蚀、抗冻。广泛用于扫描电镜、原子吸收、ICP、激光器、真空镀膜机、离子刻蚀机、氧氮分析仪、透射电镜、衍射仪、劳光光谱仪、离子束外延、分子束外延等分析仪器以及大功率X射线衍射仪、疲劳试验机、大型钎焊炉、大型真空焊接等设备中。同时在医疗仪器、机床设备和液压系统中也得到了广泛运用。

FK series precision freezers cooled separation (Cool-water) into Indoor and outdoor machine into two parts. Compressor, condenser, fans installed in the outdoor, all row in the outdoor heat, and indoor planes are smaller in size and low noise. Compressors, pumps, temperature control table, pressure control and other key components are imported products, high reliability. Evaporator used for titanium metal or stainless steel plate is made of corrosion resistant, antifreeze. Widely used scanning electron microscopy, atomic absorption, ICP, laser, vacuum plating mold, ion-etching machine, oxygen and nitrogen analyzer. TEM, diffraction, Lloyd-ray photoelectron spectrometer, ion-beam epitaxy. molecular beam epitaxy and other equipment and high-power X-ray diffraction analysis, fatigue testing machine, large brazing furnace. Vacuum welding equipment. In medical equipment, machine tools and other equipment and hydraulic system has been extensively applied.



- 机组制冷系统的组合形式灵活多样，可根据制冷方式和控制方式的需要选择板换或钛盘管。板换热交换效率高，但钛盘管抗冻能力强。
- 机组多采用间歇工作方式（低温蓄冷或上下限），节能（节能效果据测算比热气旁通方式要节约20% - 40%），延长了压缩机的寿命，（比热气旁通方式至少提高30%）。温度控制准确、稳定。低温蓄冷方式为PID动态跟踪控制方式，水温控温精度可达 $\pm 0.5^{\circ}\text{C}$ 。上下限控制方式水温可控范围为 $\pm 2^{\circ}\text{C}$ 。
- 钛盘管蒸发器具有热交换效率高、耐腐蚀、抗冻能力极强的特点。即使在运行过程中发生结冻的情况，蒸发器也不会损坏。
- 机型多、种类全、适合于各种场合。
- 操作十分简便，只需按启动开关，机组即进入工作状态。
- 冬季室外机有专用加热装置，保证室外温度低于零下 25°C 时机组能可靠工作。室内机同时有指示类显示加热器的工作状态。
- 本机组为单元化组件式设计结构，因此维修十分方便、快捷、可减少维修费用，及故障停机时间。
- 本机组的所有关键部件都采用进口或国产优质的定型产品，所以性能稳定可靠，故障极低。
- 本公司具有强大的设计、制造能力，可根据客户的具体要求设计制造非标产品。
- Flexible and diversified portfolio unit refrigeration system. under refrigeration and control panels on the need for or titanium coil. Heat exchange of high efficiency, strong titanium coil antifreeze.
- The use of intermittent work unit (or low temperature storage on the floor). Energy (energy saving mode to bypass It is estimated savings of 20 to 40% compared with the heat), extending the life of the compressor. (at least 30% higher than the steam bypass mode). Accurate temperature control and stability. PID control for tracking low-temperature storage methods, temperature accuracy of $\pm 0.5^{\circ}\text{C}$ temperature control. On the minimum controllable range 为 $\pm 2^{\circ}\text{C}$ temperature control.
- Titanium evaporator coil heat exchanger efficiency with high corrosion resistance, the ability of the characteristics of antifreeze. Even occurred in the course of operation of the garage, evaporator not damaged.
- Aircraft, all types, suitable for all occasions.
- The operation is simple, just switch activated by the crew that entered a state of the state work.
- A machine dedicated outdoor winter heating device to ensure that outdoor temperature is below minus 25°C and reliable unit can work. Indoor heaters also instructed the state show category.

- The crew module for the design of structural components, maintenance is very convenient, fast and can reduce maintenance costs. and failure downtime.
- The crew used all the key components are imported or domestically produced high-quality products stereotypes, the performance is stable and reliable. Fault low.
- The company has a great design, manufacturing capacity, according to the specific requirements of customers design and manufacture of non-standard products.

FK分体风冷式精密冷冻机（冷水机）技术参数
FK fission forced-air cooling type precision freezer (chiller) technical parameter

规格型号 Specification model			FK-06	FK-10	FK-20	FK-30	FK-50	FK-60	FK-80	FK-100	FK-120	FK-150	FK-200	FK-250	FK-300	FK-400	FK-500	
标准制冷量 Standard refrigeration quantity	50HZ 60HZ	Kcal/h	1290 1514	2382 2786	4541 5315	6803 7955	11094 13235	13091 15901	19746 23521	22188 26478	25146 29661	35652 42162	44230 52064	50293 59314	67304 80324	91461 109168	115498 138460	
	50HZ 60HZ	KW	1.5 1.76	2.77 3.24	5.28 6.18	7.91 9.25	12.9 15.39	15.22 18.49	22.96 27.35	25.81 30.79	29.24 34.49	41.33 48.7	51.43 60.54	58.48 68.97	78.26 99.4	106.35 126.94	134.3 161	
输入总功率 Total power input		KW	1.01	1.34	2.27	3.33	5.18	5.72	9.25	10.45	11.58	16.6	21	23.8	33.2	44.4	56	
电源 Power source			1PH ~ 220V 50HZ (60HZ) (110V 50HZ/60HZ)					3PH~380V 50HZ [200V/220V/415V 50HZ/60HZ]										
制冷剂 Refrigerant	名称 Name		R22 (R134a/407c)															
	控制方式 Control mode		毛细管 Capillary vessel					外平衡式热力膨胀阀 Outside balance-like thermal energy expansion valve										
压缩机 Compressor	类型 Type		全封闭旋转式 Entire seal rotary system					全封闭涡旋式（活塞式） Entire seal vortex type (plunger type)										
	功率 Power	KW	0.59	0.89	1.77	2.8	4.66	4.59	7.95	8.85	9.98	7.2×2	8.85×2	9.98×2	13.62×2	18.78×2	23.6×2	
冷凝器 Condenser	类型 Type		高效紫铜管套铝翅片式+低噪音外转子风机 Outside highly effective red copper pipe socket aluminum wing piecetype + low noise rotor air blower															
	冷却风量 Cooling amount of wind	m³/h	750	1000	2000	3000	5000	6000	8000	10000	12000	15000	20000	25000	30000	40000	50000	
蒸发器 Evaporator	类型 Type		水箱盘管（板式） Water tank plate tube (beat)															
	冷冻水量 Freezing water volume	m³	0.258 0.303	0.476 0.557	0.908 1.063	1.36 1.59	2.22 2.65	2.60 3.2	3.95 4.7	4.52 5.31	5.03 5.93	7.23 8.43	8.84 10.41	10.06 11.86	13.46 16.06	18.29 21.83	23.1 27.69	
	水箱容量 Water tank capacity	L	16	20	40	50	70	70	120	200	200	270	350	350	420	550	600	
	进出水管径 Turnover water caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"	
水泵 Water pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5	
	扬程 Lifts	m	25	25	25	20	25	25	25	20	25	25	25	20	25	22	25	
安全保护 Safekeeping of security			压缩机过热保护, 过流保护, 高低压力保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection, frostproof protection															
室内机尺寸 In room machine Size	长 Long	mm	380	380	400	400	500	500	500	500	500	500	500	500	500	500	500	
	宽 Width	mm	580	580	770	770	840	840	840	840	840	840	840	840	840	840	840	
	高 High	mm	780	780	840	840	1000	1000	1000	1200	1200	1200	1000	1200	1200	1200	1200	
室外机尺寸 Outside machine size	长 Long	mm	500	500	700	920	820	820	820	1070	1070	1070	820	1070	1070	1070	1070	
	宽 Width	mm	200	200	300	350	760	760	760	1070	1070	1070	760	1070	1070	1070	1070	
	高 High	mm	450	450	600	750	950	950	950	950	950	950	950	950	950	950	950	
机组总重 Unit gross weight		Kg	50	73	100	135	175	180	310	450	530	750	835	920	1080	1125	1250	

YW系列一体水冷式精密冷冻机（冷水机）简介

YW series one water-cooled precision chillers (chillers) introduction

YW系列一体水冷式精密冷冻机（冷水机）广泛用于塑胶、电子制造、电镀、医药化工、超声波冷却、印刷等工业生产，它能精确控制现代工业机械化生产所要求的温度，从而大大提高了生产效率及产品质量。YW系列一体水冷式精密冷冻机（冷水机）操作简便、设计合理、品质卓越，其规格有上百种，是现代化工业生产不可缺少的良伴。

YW series one water-cooled precision chillers (chillers) widely used in the plastics, electronics manufacturing, electroplating, pharmaceutical and chemical, ultrasonic cooling, printing industry, such as production, which can accurately control the temperature required by modern mechanized production, thereby greatly improving the production efficiency and product quality. YW series one water-cooled precision chillers (chillers) easy, reasonable design, quality and excellence, its specification has hundreds, is the indispensable companion of modern industrial production



- 主机精选美日全新进口名牌压缩机，内置安全保护，噪音低，省电耐用。
- 电气部份采用国际品牌“施耐德”原厂产品，保证机器工作稳定，寿命长久。
- 进口德国意大利名厂水泵，大流量，效率高，恒久耐用。
- 配备进口精密式数显温度控制器，能精确控制水温于 $\pm 1^{\circ}\text{C}$ ，设定温度范围 5°C — 50°C 。
- 全不锈钢厚质水箱式蒸发器，内置自动补水等装置，清洗维护方便快捷。
- 水冷机组冷凝器为套管式，套内螺纹铜管，设计合理，换热效果良好；风冷机组散热冷排，由翅片加上行列铜管组成，制造时采用二次翻边翅片机械涨管工艺和先进换热器生产线，保证优质高效。
- 静电喷塑外壳，欧化设计，美观大方，外表板采用快速拆装形式，方便使用和维护。



- The United States and Japan mainframe selected import brand new compressor, a built-security, low-noise, energy saving durable.
- The electrical part with international brands, "Schneider" OEM products, machinery work to ensure stability and long life.
- Germany and Italy were imported plant pumps, flow, high efficiency, long-lasting durability.
- With a significant number of import-precision temperature controller can be accurately controlled to $\pm 1^{\circ}\text{C}$ temperature. set temperature range of 5°C — 50°C .

- The entire water-quality thick stainless steel evaporator, embedded devices, such as automatic pay, cleaning maintenance and convenient.
- For the water-cooled condenser tube units, comprising threaded brass, rational design, heat well; Cold air-cooled heat unit row. by Alice ranks with brass tablet form, used to create the second film flanging Alice machinery rose tube heat exchanger technology and advanced production lines, guarantee quality and efficient.
- Electrostatic spray frames, European Design and creativity generous plate appearance forms of rapid disassembly, ease of use and maintenance.

YW系列一体水冷式精密冷冻机（冷水机）技术参数
YW series one water-cooled precision chillers (chillers) technical parameters

规格型号 Specification model			YW-30	YW-50	YW-60	YW-80	YW-100	YW-120	YW-150	YW-200	YW-250	YW-300	YW-400	YW-500	YW-600
标准制冷量 Standard refrigeration quantity	50HZ 60HZ	kcal/h	7912 9288	12900 15394	15222 18490	22962 27348	25914 30872	29240 34486	41291 48695	51428 60544	58480 68972	78260 93396	106296 126936	134308 160992	161818 192984
	50HZ 60HZ	KW	9.2 10.8	15 17.9	17.5 21.5	26.7 31.8	30.9 35.9	34 40.1	48.1 56.9	59.8 70.4	68 80.2	91 108.6	123.6 147.6	156.2 187.2	188.16 224.4
输入总功率 Total power input		KW	3.2	5.4	5.95	8.7	10.18	11.1	15.9	19.95	22.21	31	41.31	52.7	60.5
电源Power source			3PH 380V 50HZ (200V/220V/415V 50HZ/60HZ)												
制冷剂 Refrigerant	名称Name		R22 (R134a/407c)												
	控制方式 Control mode		毛细管 Capillary vessel				外平衡式热力膨胀阀 Outside balance-like thermal energy expansion valve								
压缩机 Compressor	类型Type		全封闭涡旋式（活塞式） Entire seal vortex type (plunger type)												
	功率 Power	KW	2.8	4.66	4.59	7.95	8.85	9.98	7.2×2	8.85×2	9.98×2	13.62×2	18.78×2	23.6×2	27.5×2
冷凝器 Condenser	类型Type		壳管式Shell tubular												
	冷却水量 Cooling water volume	m³/h	2.1	3.5	3.6	6.2	6.9	7.9	10.6	13.9	15.8	21.1	28.7	36.3	43.7
	进出水管径 Turnover water caliber	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3"	4"	4"
蒸发器 Evaporator	类型Type		水箱盘管（板式） Water tank plate tube (beat)												
	冷冻水量 Freezing water volume	m³/h	1.58	2.58	3.04	4.59	5.34	5.85	8.36	10.3	11.69	15.65	21.25	26.86	33.29
			1.86	3.08	3.75	5.47	6.35	6.9	9.44	12.11	13.79	18.67	25.38	32.19	38.59
	水箱容量 Water tank capacity	L	60	60	90	150	200	200	330	330	350	450	580	580	600
	进出水管径 Turnover water caliber	inch	1"	1"	1"	1"	1 1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	4"
水泵 Water pump	功率 Power	KW	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5	5.5
	扬程 Lifts	m	20	25	25	25	20	20	25	20	20	25	20	25	25
安全保护 Safekeeping of security		压缩机过热保护，过流保护，高低压力保护，超温保护，流量保护，相序/缺相保护，排气过热保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection													
机械尺寸 Mechanical size	长 Long	mm	890	890	890	1170	1170	1170	1650	1650	1880	1880	1880	2000	2000
	宽 Width	mm	500	500	500	710	710	710	710	710	710	810	910	910	1100
	高 High	mm	840	840	840	1200	1200	1200	1800	1800	1800	1800	1950	1950	2100
机械重量 Mechanical weight		Kg	130	150	165	300	430	500	735	820	900	1150	1200	1380	1450

YT系列冷热两用水循环恒温控制机简介

YT series of hot and cold water for two circulating constant temperature control machine

YT系列冷热两用水循环恒温控制机广泛用于塑胶、挤出、注塑、发泡机械，能急速加温，急速冷却设备所需温度，并能控制多个面路不同温度，快速循环于产品在成型中的质量，大大提高生产效率。

YT series of hot and cold water loop temperature control for two machines are widely used in plastics, extrusion, injection molding, foaming machine, rapid heating, temperature required for rapid cooling device and can control several different surface road temperature, rapid product quality in molding cycle, greatly improving production efficiency.



- 体积小，重量轻，操作简便。
- 实现了 $\pm 1^{\circ}\text{C}$ 的调温精度。
- 能克服弯曲凹陷、熔痕、裂纹等缺陷、降低产品的故障率，提高材料的利用率。
- 能改变成型产品的光泽，稳定产品的质量。
- 在无人操作的状态下，模具温度是恒定的。

- Small size, light weight, easy to operate.
- A precision of $\pm 1^{\circ}\text{C}$ Temperature.
- Bending overcome depression, melting marks, cracks and other flaws, the lower the failure rate of products, improve material utilization.
- Change shape products in the sunlight, stable product quality.
- The unmanned operation of the state, the die temperature is constant

YT系列冷热两用水循环恒温控制机技术参数
YT series of hot and cold water loop temperature control technology of two parameters

型号 Model		YT-30	YT-50	YT-75	YT-80	YT-100	YT-110	YT-120	
控温范围 Controls the warm scope	°C	5-95							
控温方式 Controls the warm scope		日本PKC、PID调节 Japanese PKC,PID adjustment							
电源 Power source		3Ø 380V 50Hz							
制冷剂 Refrigerant		R22							
压缩机 Compressor	HP	3	5	7.5	8	10	11	12	
制冷量 Refrigeration quantity	Kcal/h	7500	12500	19000	21000	25000	27500	30110	
冷水泵功率 Cold water pump power	kw	0.55	0.75	0.75	1.1	1.5	1.5	1.75	
冷水流量 Cold water current capacity	m ³ /h	3	6	6	8	8	8	8	
冷水压力 Cold water pressure	MPa	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
热水泵功率 Heat pump power	kw	0.55×2	0.55×2	0.55×2	0.55×2	0.75×2	0.75×6	0.75×7	
加热功率 Thermal rating	kw	3×2	3×2	6×2	6×2	9×2	9×2	3×7	
热水流量 Hot water current capacity	m ³ /h	3×2	3×2	3×2	3×2	4×2	2×6	2×7	
外形尺寸 Dimensions	长 Long	mm	1200	1400	1650	1750	1950	2150	2350
	宽 Width	mm	700	800	800	800	800	800	800
	高 High	mm	1350	1350	1350	1350	1450	1450	1450
重量 Weight	kg	250	350	450	550	650	750	850	



FD系列风冷式低温冷冻机（冷水机）简介

FD series forced-air cooling type low temperature freezer (chiller) introduces

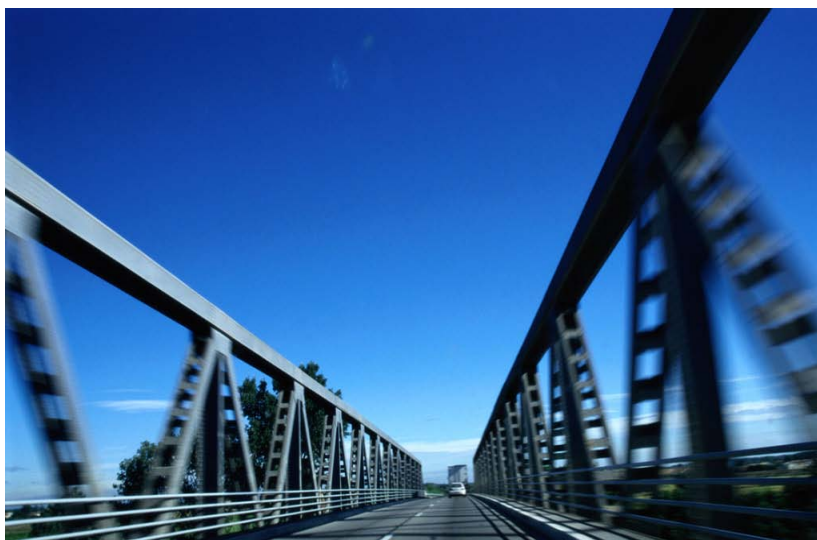
FD系列低温风冷式冷冻机（冷水机）主要是针对医药、化工等特殊行业,精心设计开发的新一代低温冷冻设备.其温度控制范围可在 -30°C – 40°C 之间任意调节, 选用国际知名品牌压缩机,制冷充路、规格齐全,是新一代制冷设备的典范。

FD series of low-temperature air-cooled chillers (chiller) is the major pharmaceutical, chemical and other special industries, carefully design and development of a new generation of low-temperature refrigeration equipment. control its temperature between -40°C at 30°C arbitrary regulation , the use of internationally famous brand compressors, refrigeration fully Road, complete specifications, is an example of the new generation of refrigeration equipment.



- 封闭式循环, 节约水资源。
- 选用国际知名品牌压缩机、可靠性高、寿命长。
- 根据温度精度要求, 精度可在 $\pm 1^{\circ}\text{C}$ 以内。
- 产品保护齐全, 自动运行。
- 主要制冷部件采用进口品牌。

- Closed cycle to save water resources.
- The use of internationally renowned brands compressor, high reliability and long life.
- Temperature accuracy and precision of $\pm 1^{\circ}\text{C}$ in less than.
- Products complete protection, automatic operation.
- The main use of refrigeration components imported brands.



FD系列风冷式低温冷冻机（冷水机）技术参数
FD series air-cooled low temperature freezer (chiller) technical parameters

型号项目 Model project			FD-30	FD-50	FD-80	FD-100	FD-120	FD-150	FD-200	FD-250	FD-300	FD-400	FD-500
标准制冷量 Standard refrigeration quantity	50HZ 60HZ	kcal/h	1810 2166	3320 3879	4042 4730	5650 6613	6502 7611	7284 8523	11300 13218	13003 15213	14568 17045	30771 36000	38038 44505
	50HZ 60HZ	KW	2.10 2.50	3.86 4.51	4.7 5.5	6.57 7.69	7.56 8.85	8.47 9.91	13.14 15.37	15.12 17.69	16.94 19.82	35.78 41.86	44.23 51.75
输入总功率 Total power input		KW	3.92	6.77	9.23	11.91	13.65	15.79	25.07	27.8	32.8	42.89	54.66
电源 Power source			3PH 380V 50HZ (200V/220V/415V 50HZ/60HZ)										
制冷剂 Refrigerant	名称 Name		R22(R404A/R507)										
	控制方式 Control mode		外平衡式热力膨胀阀 Outside balance-like thermal energy expansion valve										
压缩机 Compressor	类型 Type		全封闭涡旋式（活塞式） Entire seal vortex type (plunger type)										
	功率 Power	KW	3.37	5.66	7.98	10.66	11.95	13.39	10.66×2	11.95×2	13.39×2	18.07×2	22.93×2
冷凝器 Condenser	类型 Type		高效紫铜管套铝翅片式+低噪音外转子风机 Outside highly effective red copper pipe socket aluminum wing piece type + low noise rotor air blower										
蒸发器 Evaporator	类型 Type		水箱盘管（板式） Water tank plate tube (beat)										
	冷冻水量 Freezing water volume	m ³ /h	0.72	0.98	1.21	1.35	1.52	2.30	2.85	3.01	6.20	7.84	9.41
			0.85	1.06	1.46	1.63	1.96	2.81	3.14	3.47	7.45	9.20	10.05
	水箱容量 Water tank capacity	L	50	70	120	200	200	270	350	350	420	550	600
进出水管径 Turnover water caliber	inch	1"	1"	1"	1 1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	
水泵 Water pump	功率 Power	KW	0.37	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5
	扬程 Lifts	m	20	25	25	20	20	20	20	20	22	22	25
安全保护 Safekeeping of security			压缩机过热保护，过流保护，高低压力保护，超温保护，流量保护，相序/缺相保护，排气过热保护，防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection, frostproof protection										
机械尺寸 Mechanical size	长 Long	mm	930	1140	1310	1680	1680	1800	2000	2000	2200	2500	2980
	宽 Width	mm	520	560	720	810	810	990	1130	1130	1130	1500	1700
	高 High	mm	975	1040	1270	1280	1280	1680	1720	1914	2026	1500	1700
机械重量 Mechanical weight		Kg	142	186	325	480	556	765	869	936	1085	1125	1250

LD系列低温水冷式冷冻机（冷水机）主要是针对医药、化工等特殊行业,精心设计开发的新一代低温冷冻设备.其温度控制范围可在-30℃-40℃之间任意调节，选用国际知名品牌压缩机,制冷充路、规格齐全，是新一代制冷设备的典范。

LD series of low-temperature water-cooled chillers (Cool-water) is the major pharmaceutical, chemical and other special industries, carefully design and development of a new generation of low-temperature refrigeration equipment. control its temperature between -40 ° C at 30 ° C arbitrary regulation , the use of internationally famous brand compressors, refrigeration fully Road, complete specifications, is an example of the new generation of refrigeration equipment.



- 封闭式循环，节约水资源。
- 选用国际知名品牌压缩机、可靠性高、寿命长。
- 根据温度精度要求，精度可在±1℃以内。
- 产品保护齐全，自动运行。
- 主要制冷部件采用进口品牌。



- Closed cycle to save water resources.
- The use of internationally renowned brands compressor, high reliability and long life.
- Temperature accuracy and precision of ± 1°C in less than.
- Products complete protection, automatic operation.
- The main use of refrigeration components imported brands.

LD系列低温水冷式冷冻机(冷水机)技术参数
LD series of low-temperature water-cooled chillers (Cool-water)technical parameters

规格型号 Specification model			LD-30	LD-50	LD-80	LD-100	LD-120	LD-150	LD-200	LD-250	LD-300	LD-400	FD-500	
标准制冷量 Standardrefrigera tion quantity	50HZ 60HZ	kcal/h	2390 2868	3784 4429	4610 5392	6441 7534	7413 8669	8308 9718	12866 15076	14826 17.234	16615 19436	34572 40446	42742 50009	
	50HZ 60HZ	KW	2.78 3.33	4.4 5.15	5.36 6.27	7.49 8.76	8.62 10.08	9.66 11.3	14.98 17.53	17.24 20.04	19.32 22.6	40.2 47.03	49.7 58.15	
输入总功率 Total power input		KW	3.74	6.41	8.73	11.41	13.05	14.89	23.57	26.15	30.53	39.9	51.4	
电源 Power source		3PH 380V 50HZ (200V/220V/415V 50HZ/60HZ)												
制冷剂 Refrigerant	名称 Name		R22 (R404A/R507)											
	控制方式 Control mode		外平衡式热力膨胀阀 Outside balance-like thermal expansion valve											
压缩机 Compressor	类型 Type		全封闭涡旋式(活塞式) Entire vortextype (plungertype)											
	功率 Power	KW	3.37	5.66	7.98	10.66	11.95	13.39	10.66*2	11.95*2	13.39*2	18.07*2	22.93*2	
冷凝器 Condenser	类型 Type		壳管式 Shell tubular											
冷凝器 Condenser	冷冻水量 Freezing water volume	m³/h	2.1	3.5	6.2	6.9	7.9	10.6	13.9	15.8	21.1	28.7	36.3	
			2.5	4.2	7.4	8.2	9.3	12.6	16.3	18.6	25.2	34.3	43.5	
	进出水管径 Turnover water caliber	inch	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	2 1/2"	3"	3"	4"	
蒸发器 Evaporator	类型 Type		水箱盘管(板式) water tank plate tube (beat)											
	冷冻水量 Freezing water volume	M³/h	0.78	0.98	1.29	1.51	1.67	2.59	2.98	3.38	6.92	8.67	11.05	
			0.91	1.12	1.56	1.81	1.95	3.10	3.57	3.96	8.16	11.20	12.16	
	水箱容量 Water tank capacity	L	60	60	150	200	200	330	330	350	450	580	580	
进出水管径 Cooling water volume	inch	1"	1"	1"	1 1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"		
水泵 Water pump	功率 Power	KW	0.37	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5	
	扬程 Lifts	m	20	25	25	20	20	20	20	20	25	20	25	
安全保护 Safekeeping of security			压缩机过热保护, 过流保护, 高低压力保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection, frostproof protection											
机械尺寸 Mechanical size	长 Long	mm	890	890	1170	1170	1170	1650	1650	1880	1880	1880	2000	
	宽 Width	mm	500	500	710	710	710	710	710	710	810	910	980	
	高 High	mm	840	840	1200	1200	1200	1800	1800	1800	1800	1950	1950	
机械重量 Mechanical weight	Kg		135	158	312	445	512	746	832	915	1165	1213	1396	

AJ系列浸入式风冷冷冻机（冷油机）简介

AJ series plunges the type forced-air cooling freezer (coldkerosene engine) to introduce

机床加工工件过程中会产生热量，使得机床的加工精度、工作的可靠性下降，增加日常维护费用，加大机床的运行成本。AJ系列浸入式风冷冷冻机（冷油机）集多年机床制冷之经验，依据机床工作过程中发热部件的不同特性，专门用于解决机床主轴润滑油、液压油、切削油、研磨油、加工液的温度控制问题。适用于CNC车床、CNC综合加工中心、CNC磨床、CNC内外径研磨机、CNC铣床等。

Machining process will produce heat, making the machining accuracy and the reliability of decline increased day-to-day maintenance costs, increase machine operational costs. AJ series submerged cooled freezers (cold aircraft), many years of experience refrigeration machine. Fever machine parts based on the different characteristics of the process, is devoted to machine tool spindle lubricants and hydraulic oil. Cutting oil lapping oil processing liquid temperature control problem. Apply to the CNC lathe, integrated CNC machining center, CNC grinding machine, CNC grinding machine inside diameter. CNC milling machine and so on.



- 本机为切削加工冷却机，不受杂质、切削金属粉末等干扰。
 - 清洁容易，保养简单。
 - 换热效率高，不易产生氧化。
 - 安装简单，不占空间。
-
- The cooling machine for machining machine from impurities, such as cutting metal powder interference.
 - Easy to clean, simple maintenance.
 - The heat transfer efficiency, not oxidized.
 - Simple installation, not occupied space.



AJ系列浸入式风冷冷冻机技术参数
AJ series plunges the type forced-air cooling freezer (coldkerosene engine) the technical parameter

规格型号 Specification model			AJ-15	AJ-25	AJ-30	AJ-45	AJ-60	AJ-80	AJ-120
冷却能力 Cooling capacity	W		1500	2500	3000	4500	6000	8000	12000
总电源 Total power source			1φ 220V 50HZ				3φ 380V 50HZ		
总功率 Total output	W		650	1000	1500	1950	3050	3450	5650
液温控制范围 Fluid warm control area	℃		15~45						
控制精度 Control precision	℃		±1						
压缩机 Compressor	电源 Power source		1φ 220V 50HZ				3φ 380V 50HZ		
	额定功率 Rated power	W	575	915	1320	1770	2800	3120	3750
	额定电流 Nominal current	A	3	4.3	6.35	8.9	5.0	5.5	9.5
风机 Air blower	电源 Power source		1φ 220V 50HZ				3φ 380V 50HZ		
	额定功率 Rated power	W	45	45	90	120	190	240	360
制冷剂 Refrigerant			R22						
使用条件 Exploitation conditions	室温 Room temperature	℃	5~45						
	液温 Fluid warm	℃	15~45						
	使用液体 Use liquid		水、水溶性切削液、水溶性研磨液、切削液、研磨油 Water soluble cutting fluid, water-soluble liquid grinding, cutting fluids, grinding oil						
	粘度 Viscosity	CST	0.5~4						
外形尺寸 Outlook size	长 Long	mm	390	460	500	540	670	1050	1260
	宽 Width	mm	400	520	560	600	680	760	760
	高 High	mm	910	1034	1133	1278	1375	1160	1390
保护装置 Protective device			压缩机过载保护、高压过载保护、异常报警、相序保护、缺相保护 The compressor over-load protection, the high pressure over-load protection, exceptionally report to the police, the foreword protection, lacks protects						

AP系列冷油机适用于数控机床、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，提高机床的加工精度。还常用于脉冲试验台、爆破实验台、气密性试验台、制动管和动力转向管保压台、耐压试验台、真空试验台、制动软管挠曲疲劳试验台、阀门试验台、液压阀试验台、液压泵试验台、液压马达试验台、液压油缸出厂试验台等一系列工业检测设备的油冷却系统。同时还在车床、高速车床、内外径研磨机、放电加工机、油压机械、磨床、拉床、铣床、综合加工中心机、木工雕刻机、切削机械等工业设备加工行业得到了广泛应用。

AP series oil cooler machine for CNC machine tools, jig boring machines, grinding machines, machining centers, modular machine tool and precision machine tools spindle lubricating and hydraulic oil cooling, accurate control of the oil temperature, effective reduction of thermal deformation of machine tools, improving the machining accuracy of machine tools. Also often for pulse test Taiwan, and blasting experimental Taiwan, and gas key sexual test Taiwan, and brake tube and power steering major Yatai, and resistance pressure test Taiwan, and vacuum test Taiwan, and brake hose flexing fatigue test Taiwan, and valve test Taiwan, and hydraulic valve test Taiwan, and hydraulic pump test Taiwan, and hydraulic motor test Taiwan, and hydraulic oil cylinder factory test Taiwan, series of industrial detection equipment of oil cooling system. While in high speed lathe, lathe, internal and external diameter grinding machine, electric discharge machine, hydraulic machines, grinding machines, broaching machines, milling machines, machining centers, woodworking machines, cutting machines and other industrial equipment industry has been widely used.



- 主机采用欧美日进口品牌压缩机,运行可靠,效率高,噪音低。
 - 高品质循环油泵,压力大,稳定性高,恒久耐用。
 - 多点数字温控系统,温度数字显示,按键式操作。
 - 完善的电气保护系统,具有缺相、错相保护、电流过载保护、高低压保护等确保机组的正常运行。
 - 经过科学设计,充分考虑技术参数的优化组合,各项指标先进合理。
 - 可根据用户的要求进行改型设计,提供不同性能指标的产品。
-
- Hosts with Europe, America and Japan import brand compressor, reliable operation, high efficiency, low noise.
 - High quality cycle pump, high pressure, high stability and lasting service life.
 - Multipoint digital temperature control system, digital temperature display, press operation.
 - Perfect electrical protection system, lack of, stagger protection, current overload protection, high and low voltage protection the unit to run.
 - Scientifically designed, fully taking into account optimization of technical parameters, the index advanced and reasonable.
 - Can be modified according to user's requirements, providing different performance indicators.

规格型号 Specification model			AP-06	AP-10	AP-20	AP-30	AP-50	AP-60	AP-80	AP-100	AP-120	AP-150	AP-200	AP-250	AP-300	AP-400	AP-500	
制冷量 Cooling capacity	Kcal/h		1290	2382	4541	6803	11094	13091	19746	22188	25146	35652	44230	50293	67304	91461	115498	
	KW		1.5	2.77	5.28	7.91	12.9	15.22	22.96	25.81	29.24	41.33	51.43	58.48	78.26	106.35	134.3	
输入总功率 Total power input		KW	1.01	1.34	2.27	3.33	5.8	6.33	9.25	10.15	11.58	16.6	21	23.8	33.2	44.4	56	
电源 Power source			1PH ~ 220V 50HZ (60HZ)					3PH ~ 380V 50HZ (200V/220V/415V 50HZ/60HZ)										
制冷剂 Refrigerant	名称 Name		R22 (R 134a / 407c)															
	控制方式 Control mode		毛细管 Capillary vessel						外平衡式热力膨胀阀 Outside balance -like thermal energy expansion valve									
压缩机 Compressor	类型 Type		全封闭旋转式 Entire seal rotary system					全封闭涡旋式 (活塞式) Entire seal vortex type (plunger type)										
	功率 Power	KW	0.59	0.89	1.77	2.8	4.66	5.2	7.95	8.85	9.98	7.2*2	8.85*2	9.98*2	13.62*2	18.8*2	23.6*2	
冷凝器 Condenser	类型 Type		高效紫铜管套铝翅片式 + 低噪音外转子风机 The high-effect red copper pipe box aluminium wing slices dyadic + low noise outside rotator wind machine															
	冷却风量 Cooling amount of wind	m ³ /h	750	1000	2000	3000	5000	6000	8000	10000	12000	15000	20000	25000	30000	40000	50000	
蒸发器 Evaporator	类型 Type		壳管式 (板式) Shell and tube type (plate)															
	冷冻油量 Freezing oil volume	m ³ /h	0.258	0.476	0.908	1.36	2.22	2.60	3.95	4.52	5.03	7.23	8.84	10.06	13.46	18.29	23.1	
	进出油管径 Turnover oil caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"	
油泵 Oil pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5	
	扬程 Lift	m	25	25	25	20	25	25	25	20	25	25	25	20	25	20	25	
安全保护 Safekeeping of security			压缩机过热保护, 过流保护, 高低压力保护, 超温保护, 流量保护, 相序/缺相保护, 排气过热保护, 防冻保护 The compressor excessively hot protection, has flowed the protection, the height pressure protection, the ultra warm protection, the current capacity protection, the foreword/lacks protects, has exhausted the hot protection, frostproof protection															
机械尺寸 Mechanical size	长 Long	mm	500	500	580	930	1140	1140	1310	1680	1680	1800	2000	2000	2200	2500	2980	
	宽 Width	mm	500	500	550	520	560	560	720	810	810	990	1130	1130	1130	1500	1700	
	高 High	mm	725	725	925	975	1040	1040	1270	1280	1280	1680	1720	1914	2026	2250	2300	
机械重量 Mechanical weight		Kg	51	75	102	138	177	182	323	453	532	752	838	929	1089	1132	1265	

AQ系列风冷式水循环恒温控制冷却机简介

AQ series air-cooled water loop temperature control cooling machine

AQ系列风冷式水循环恒温控制冷却机是由我公司联合多家著名科研机构共同开发、研制的无氟环保冷却设备产品。系在借鉴吸取国外先进经验基础上，结合客户现场使用的反馈信息，进行了必要的改进，能更好的满足顾客要求。由于融入了国内强大的设计开发成果和我公司丰富的生产经验，使得该系列产品具有卓越的设计水平、优异的产品质量和最好的服务。

AQ series air-cooled water circulation thermostat controlled cooling machine is combined with many famous research institutions to jointly develop by our company, development of CFC-free environment-friendly cooling products. Drawing on advanced foreign experience for reference, based on combining customer site uses feedback information, necessary improvements have been made, to better meet customer requirements. Due to the integration of the nation's powerful design and development outcomes and our company a wealth of experience, makes the products have excellent level design, excellent quality products and the best service.



- 所有零配件严格选材，精工制作，不掺杂使假，确保品质始终最好。同时持续有效运作的质量管理体系确保了顾客在从原材料采购到安装调试等全过程都能得到专业品质的产品及服务。
- 设计气象条件参照国际标准的要求而设计，设计及设备选用过程中考虑了必要之裕量。高标准严要求，自然造就超群的散热能力，适应更严格的气象环境和工况要求。
- 采用业界领先的设计方法和优化的换热模型，高效率、低阻力型换热器和极佳的循环喷淋系统，使换热效率得到大幅度提高，占地面积下降，塔体重量减轻。
- 根据需要可选择调速电机以实现节能（最高可达50%），可方便的纳入自控系统，易于管理。
- 综合治理措施使振动、噪声、漂水等指标更符合环保要求。采用专用低噪声风机和电机、减速机，效率高，噪声低。优化设计的塔体钢框架结构简单，稳固可靠，运行振动控制在极低范围内。高效收水器保证满足大风量的前提下能最大限度地降低飘水损失，全面符合环保要求。如选用调速电机，在夜间低速运行时，还能使噪声再降低3-5dB(A)。
- 结构设计科学，制作精良，占地小，外形美观，尤其适用于各类流量大、散热量小、水流洁净要求高、控温精确的工艺场所。结构件材料均使用优先级不锈钢或热镀锌钢材，外观平整美观，经久耐用。
- Strict selection all spare parts, precision production, not with fake, ensuring that quality is always the best. While continuing effective operation of quality management system to ensure the customer from raw material procurement to installation and so the whole process have access to professional-quality products and services.
- Design weather condition in the light of international standards and design, process design and equipment selection taking into account the necessary margin. High standards and strict requirements, nature makes for superior thermal capacity, meet the requirement of more strict environmental and meteorological conditions.
- Use industry-leading optimization and design method of heat transfer models, high efficiency, low resistance and excellent heat exchanger of the circulating spray system, enables significantly improved efficiency, covering an area of decline, Tower weight reduction.
- Select motor as necessary to achieve energy-saving (up to a maximum of 50%), can be easily incorporated into the control system, easy to manage.
- Comprehensive regulation measures of vibration, noise and drift water indicators more in line with the requirements of environmental protection. Using special low-noise fan and motor, reducer, high efficiency, low noise. Tower body in optimal design of steel framed structures simple, robust, vibration control of running on a very low scale. Efficient water collection to meet wind drifts can minimize water loss under the premise, in full compliance with environmental protection requirements. Selection of speed regulating motor, low speed operation at night, also enable noise reduction in 3-5dB (a).
- Structural design of science to produce sophisticated, with a small, beautiful, especially suitable for all kinds of small amount of traffic flow, cooling, temperature controlled places of precision manufacturing process requirements. Structure material with a priority of the stainless steel or hot dipped galvanized steel, the appearance of flat appearance and durability.

AQ系列风冷式水循环恒温控制冷却机技术参数
AQ series air-cooled water circulation thermostat controlled cooling technology parameters

规格型号 Specification model		AQ-06	AQ-10	AQ-20	AQ-30	AQ-50	AQ-60	AQ-80	AQ-100	
散热能力 Cooling capacity	KW	1	2	5	7	12	15	22	25	
输入总功率 Total power input	KW	0.35	0.55	0.68	0.88	1.25	1.35	1.55	1.72	
冷却器 Condenser	类型 Type	高效紫铜管套铝翅片式 + 低噪音外转子风机 The high-effect red copper pipe box aluminium wing slices dyadic + low noise outside rotator wind machine								
	冷却风量 Cooling amount of wind	m ³ /h	750	1000	2000	3000	5000	6000	8000	10000
	散热水量 Freezing water volume	m ³ /h	0.258	0.476	0.908	1.36	2.22	2.60	3.95	4.52
	水箱容量 Water tank capacity	L	30	40	80	100	120	120	200	300
	进出水管径 Turnover water caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"
水泵 Water pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75
	扬程 Lift	m	25	25	25	20	25	25	25	20
机械尺寸 Mechanical size	长 Long	mm	500	500	580	930	1140	1140	1310	1680
	宽 Width	mm	500	500	550	520	560	560	720	810
	高 High	mm	725	725	925	975	1040	1040	1270	1280
机械重量 Mechanical weight	Kg	40	50	80	100	150	180	200	300	

规格型号 Specification model		AQ-120	AQ-150	AQ-200	AQ-250	AQ-300	AQ-400	AQ-500	
散热能力 Cooling capacity	KW	29	41	51	58	78	106	134	
输入总功率 Total power input	KW	2.25	3.65	4.98	5.96	7.02	8.65	10.22	
冷却器 Condenser	类型 Type	高效紫铜管套铝翅片式 + 低噪音外转子风机 The high-effect red copper pipe box aluminium wing slices dyadic + low noise outside rotator wind machine							
	冷却风量 Cooling amount of wind	m ³ /h	12000	15000	20000	25000	30000	40000	50000
	散热水量 Freezing water volume	m ³ /h	5.03	7.23	8.84	10.06	13.46	18.29	23.1
	水箱容量 Water tank capacity	L	300	400	500	500	600	800	1000
	进出水管径 Turnover water caliber	inch	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"
水泵 Water pump	功率 Power	kw	1.1	1.5	2.25	2.25	3.75	3.75	5.5
	扬程 Lift	m	25	25	25	20	25	20	25
机械尺寸 Mechanical size	长 Long	mm	1680	1800	2000	2000	2200	2500	2980
	宽 Width	mm	810	990	1130	1130	1130	1500	1700
	高 High	mm	1280	1680	1720	1914	2026	2250	2300
机械重量 Mechanical weight	Kg	400	500	700	800	900	1000	1100	

AM系列水冷式水循环恒温控制冷却机简介

AM series of water-cooled cooling water loop temperature control machine

AM系列水冷式水循环恒温控制冷却机利用第三方恒温冷却水对当前目标液体进行散热冷却的精密恒温控制机，广泛应用于温度较高，散热量小，水流量大，水质要求高的机械设备生产工作场所，它能精确控制现代工业机械化生产所要求的温度，从而大大提高了生产效率及产品质量。AM系列水冷式水循环恒温控制冷却机操作简单、结构合理、经济实惠，美观耐用。

AM series of water-cooled water constant temperature cooling water circulating constant temperature control cooling machines use a third party to the current target for precision temperature control of cooling liquid machine, widely used in high temperature, heat a small, water flow, water quality requires high production of mechanical equipment in the workplace, which can accurately control the temperature required by modern mechanized production, thereby greatly improving the production efficiency and product quality. AM series of water-cooled cooling water loop temperature control machine operation simple, reasonable structure, affordable, beautiful and durable.



- 整机采用欧美人机美学设计，内置安全保护，噪音低，省电耐用。
- 电气部分采用国际品牌施耐德等原厂产品，保证机器工作稳定，寿命长久。
- 进口德国意大利等名厂水泵，大流量，效率高，恒久耐用。
- 配备进口精密式数显温度控制器，能精确控制水温 $\pm 1^{\circ}\text{C}$ 。
- 全不锈钢厚质水箱，清洗维护方便快捷。
- 套管式冷却器，设计合理，换热效果良好。
- 静电喷塑外壳，欧化设计，美观大方，外表板采用快速拆装形式，方便使用和维护。



- Europeans and aesthetic design, built-in security, low noise, power saving and durable.
- Electric elements adopt international brand Schneider original products, assure the machine work stability, long service life.
- Import Germany Italy famous water pump with high output, high efficiency and lasting service life.
- Equipped with imported precision digital display temperature controller, to control the temperature of $\pm 1^{\circ}\text{C}$.
- Stainless steel thick water tank, cleaning and maintenance convenient.
- Tube cooler, designed to heat exchange efficiency is good .
- Electrostatic spray cover, European design, elegant, fast and working inside the form appearance, ease of use and maintenance.

AM系列水冷式水循环恒温控制冷却机技术参数
AM series of water-cooled water cycle thermostat controlled cooling technology parameters

规格型号 Specification model		AM-06	AM-10	AM-20	AM-30	AM-50	AM-60	AM-80	AM-100	AM-120	AM-150	AM-200	AM-250	AM-300	AM-400	AM-500	
散热冷力 Cooling capacity	KW	1.92	2.97	5.98	9.2	15	17.5	26.7	30.9	34	48.1	59.8	68	91	123.6	156.2	
输入总功率 Total power input	KW	0.31	0.50	0.60	0.80	1.15	1.20	1.50	1.60	2.00	3.00	4.00	5.00	6.02	8.00	10.00	
电源 Power source		1PH ~ 220V 50HZ (60HZ)					3PH ~ 380V 50HZ (200V/220V/415V 50HZ/60HZ)										
		(110V 50HZ/60HZ)															
冷却器 Condenser	类型 Type	壳管式 Shell tubular															
	冷水流量 Freezing water volume	m ³ /h	0.5	0.7	1.5	2.1	3.5	3.6	6.2	6.9	7.9	10.6	13.9	15.8	21.1	28.7	36.3
	冷水进水管径 Turnover water caliber	inch	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	3"	3"	4"
	散热水量 Freezing water volume	m ³ /h	0.35	0.56	1.02	1.58	2.58	3.04	4.59	5.34	5.85	8.36	10.3	11.69	15.65	21.25	26.86
	水箱容量 Water tank capacity	L	30	40	80	100	120	120	200	300	300	400	500	500	600	800	1000
	凉水进水管径 Turnover water caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"
水泵 Water pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5
	扬程 Lift	m	25	25	25	20	25	25	25	20	25	25	25	20	25	20	25
机械尺寸 Mechanical size	长 Long	mm	600	600	600	890	890	890	1170	1170	1170	1650	1650	1880	1880	1880	2000
	宽 Width	mm	350	350	350	500	500	500	710	710	710	710	710	710	810	910	980
	高 High	mm	650	650	650	840	840	840	1200	1200	1200	1800	1800	1800	1800	1950	1950
机械重量 Mechanical weight	Kg	38	45	70	85	120	160	180	260	380	460	620	710	800	950	1000	

AR系列风冷式油循环恒温控制冷却机简介

AR series air-cooled oil circulating temperature control cooling machine

AR系列风冷式油循环恒温控制冷却机环境适应能力强，采用当今世界最先进的流程设计，控温精度高，散热速度快，节能高效。可根据客户要求配置自动吸出回油、全负压运转、RS485通讯等功能，完全可与当今代表最高水准的欧美进口机器相媲美。顶级品质，为客户节省高昂的设计成本，提高经济效益。

AR series air-cooled oil circulating temperature-controlled cooler environment adaptation ability, the world most advanced process design, high precision temperature control, heat, energy saving and high efficiency. Auto oil can be configured according to customer requirements, full negative pressure operation, RS485 communication features such as fully representative of today's highest standard comparable to European and American imports. Top-quality, high-saving design cost for the customer, improve economic efficiency.



- 日本OMRON、RKC微电脑集成控制，P.I.D温度控制表，触模式内储，自动演算，省电365%以上。
- 安全保护及故障指示系统完善。
- 进口高级组件，日本FuJL、OMRON、法国Schneider、德国SIEMENS、台湾ANLY等。
- 散热速度快，温度精确稳定。
- 独特的环境友好型设计，适合不同温控场所使用，节能效果明显。
- 专业化的油路系统设计，管损小，温控精度高。
- 开机自动热保护功能。
- 强制停机功能。



- Japan OMRON, RKC microcomputer integrated control, temperature control P.I.D tables, storage in the touch mode, automatic routing, power 365%.
- Security and fault indication system perfect.
- Imported high component, Japan FuJL, and OMRON, and France Schneider and the Germany SIEMENS, and Taiwan ANLY.
- Heat sink fast, accurate, steady temperature.
- The unique environment-friendly design, suitable for different temperature use, energy-saving effect is obvious.
- Oil system design of specialized, small pipe loss, high temperature control precision.
- Auto thermal protection function.
- Forced stopping.

AR风冷式油循环恒温控制冷却机技术参数
AR series air-cooled oil circulation thermostat controlled cooling technology parameters

规格型号 Specification model		AR-06	AR-10	AR-20	AR-30	AR-50	AR-60	AR-80	AR-100	AR-120	AR-150	AR-200	AR-250	AR-300	AR-400	AR-500	
散热能力 Cooling capacity	KW	1	2	5	7	12	15	22	25	29	41	51	58	78	106	134	
输入总功率 Total power input	KW	0.35	0.55	0.68	0.88	1.25	1.35	1.55	1.72	2.25	3.65	4.98	5.96	7.02	8.65	10.22	
冷却器 Condenser	类型 Type	高效紫铜管套铝翅片式 + 低噪音外转子风机 The high-effect red copper pipe box aluminium wing slices dyadic + low noise outside rotator wind machine															
	冷却风量 Cooling amount of wind	m ³ /h	750	1000	2000	3000	5000	6000	8000	10000	12000	15000	20000	25000	30000	40000	50000
	散热油量 Freezing oil volume		0.258	0.476	0.908	1.36	2.22	2.60	3.95	4.52	5.03	7.23	8.84	10.06	13.46	18.29	23.1
	油箱容量 Oil tank capacity	L	30	40	80	100	120	120	200	300	300	400	500	500	600	800	1000
	进出油管径 Turnover oil caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"
水泵 Oil pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5
	扬程 Lift	m	25	25	25	20	25	25	25	20	25	25	25	20	25	20	25
机械尺寸 Mechanical size	长 Long	mm	500	500	580	930	1140	1140	1310	1680	1680	1800	2000	2000	2200	2500	2980
	宽 Width	mm	500	500	550	520	560	560	720	810	810	990	1130	1130	1130	1500	1700
	高 High	mm	725	725	925	975	1040	1040	1270	1280	1280	1680	1720	1914	2026	2250	2300
机械重量 Mechanical weight		mm	40	50	80	100	150	180	200	300	400	500	700	800	900	1000	1100

AO系列水冷式油循环恒温控制冷却机简介

AO series of water-cooled oil circulating temperature control cooling machine

AO系列水冷式油循环恒温控制冷却机主要是针对高温环境下的油循环冷却恒温需要而开发的一全新的机型，机内由外接冷却水循环系统和内置油循环系统两套独立系统构成，该机具有占地面积小，控制方便，外表美观的特点。AO系列水冷式油循环恒温控制冷却机广泛适用于橡塑件射出成型、模具控温、机械加工、生物医药设备、化工及纺织、电子制造业等领域。

AO series of water-cooled oil circulating temperature control of cooling oil circulation is mainly aimed at high temperatures cooling thermostat needs and the development of new models, from within an external cooling and internal oil circulation system of two independent systems, the machine has a small footprint, easy to control, attractive features. AO series of water-cooled oil circulating temperature control cooling machine widely used in plastic injection molding, mold temperature, mechanical processing, bio-medical equipment, chemicals and textiles, electronics manufacturing and other fields.



- 主机内置安全保护，噪音低，省电耐用。
- 电气部分采用国际品牌“施耐德”原厂产品，保证机器工作稳定，寿命长久。
- 进口德国意大利名厂油泵，大流量，效率高，恒久耐用。
- 配备进口精密式数显温度控制器，能精确控制水温 $\pm 1^{\circ}\text{C}$ 。
- 全不锈钢厚质油箱设计，清洗维护方便快捷。
- 冷却器为套管式，套内螺纹铜管，设计合理，换热效果良好。
- 静电喷塑外壳，欧化设计，美观大方，外表板采用快速拆装形式，方便使用和维护。



- Host built-in security, low noise, power saving and durable.
- Electric elements adopt international brand "Schneider" original products, assure the machine work stability, long service life.
- Import Germany Italy famous pump with high output, high efficiency and lasting service life.
- Equipped with imported precision digital display temperature controller, to control the temperature of $\pm 1^{\circ}\text{C}$.
- Thick quality stainless steel fuel tank design, cleaning and maintenance convenient.
- Cooler as tube, inner-grooved copper tube, reasonable design, heat exchange efficiency is good.
- Electrostatic spray cover, European design, elegant, fast and working inside the form appearance, ease of use and maintenance.

AO系列水冷式油循环恒温控制冷却机技校参数

AO series of water-cooled oil circulating temperature control cooling machines technical parameter

规格型号 Specification model		AO-06	AO-10	AO-20	AO-30	AO-50	AO-60	AO-80	AO-100	AO-120	AO-150	AO-200	AO-250	AO-300	AO-400	AO-500	
散热冷力 Cooling capacity	KW	1.92	2.97	5.98	9.2	15	17.5	26.7	30.9	34	48.1	59.8	68	91	123.6	156.2	
输入总功率 Total power input	KW	0.31	0.50	0.60	0.80	1.15	1.20	1.50	1.60	2.00	3.00	4.00	5.00	6.02	8.00	10.00	
电源 Power source		1PH ~ 220V 50HZ (60HZ)					3PH ~ 380V 50HZ (200V/220V/415V 50HZ/60HZ)										
		(110V 50HZ/60HZ)															
类型 Type		壳管式 Shell tubular															
冷却器 Condenser	冷水流量 Freezing water volume	m ³ /h	0.5	0.7	1.5	2.1	3.5	3.6	6.2	6.9	7.9	10.6	13.9	15.8	21.1	28.7	36.3
	冷水进出管径 Turnover water caliber	inch	1"	1"	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	3"	3"	4"
	散热油量 Freezing oil volume	m ³ /h	0.35	0.56	1.02	1.58	2.58	3.04	4.59	5.34	5.85	8.36	10.3	11.69	15.65	21.25	26.86
	油箱容量 Oil tank capacity	L	30	40	80	100	120	120	200	300	300	400	500	500	600	800	1000
	凉油进出管径 Turnover oil caliber	inch	1/2"	1/2"	1/2"	1"	1"	1"	1"	1-1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"
油泵 Oil pump	功率 Power	kw	0.37	0.37	0.37	0.37	0.75	0.75	0.75	0.75	1.1	1.5	2.25	2.25	3.75	3.75	5.5
	扬程 Lift	m	25	25	25	20	25	25	25	20	25	25	25	20	25	20	25
机械尺寸 Mechanical size	长 Long	mm	600	600	600	890	890	890	1170	1170	1170	1650	1650	1880	1880	1880	2000
	宽 Width	mm	350	350	350	500	500	500	710	710	710	710	710	710	810	910	980
	高 High	mm	650	650	650	840	840	840	1200	1200	1200	1800	1800	1800	1800	1950	1950
机械重量 Mechanical weight	Kg	38	45	70	85	120	160	180	260	380	460	620	710	800	950	1000	

AV系列水（油）冷却器简介

AV series water (oil) chiller synopsis

AV系列水（油）冷却器采用重量轻、换热效率高的铝合金材料制成。在风扇作用下，以空气为冷却源，把水（油）的热量散发到空气之中，广泛应用于液压系统、润滑系统、冷却系统。适用于CNC车床油压系统；内外径研磨油压油冷却；各类机械油压箱冷却；加工中心油压系统冷却。

AV series of water (oil) cooler using light weight, high efficiency heat exchanger made of aluminum alloy materials. Under fans, air cooling source of water (oil) to distribute the heat to the air. widely used in the hydraulic system, the lubrication system, the cooling system. CNC lathe applied to a hydraulic system; Inside diameter grinding hydraulic oil cooling; All types of machinery and hydraulic cooling box; Machining Center hydraulic cooling system.



- 可以降低油温，避免温度过高造成油裂化。
 - 构造简单，维修容易，寿命长。
 - 不会像一般冷却器用水冷却有油水混合的可能，造成机械损害。
 - 耗电力低，节省能源高。
-
- Can lower temperature to avoid high temperature caused by oil cracking.
 - Simple, easy maintenance and long service life.
 - Not like ordinary water cooler cooling water mixed with the possibility of mechanical damage.
 - Low power consumption, high energy.



规格型号 Specification model		AV-03	AV -05	AV -10	AV -18	AV -25	AV -35	
冷却能力 Cooling capacity	W	150	250	500	900	1250	1750	
电源 Power source		1 ϕ 220V50HZ			3 ϕ 380V50HZ			
额定电流 Nominal current	A	0. 13	0. 40	0. 40	0. 15	0. 33	0. 48	
进口管径 Import caliber	Inch	G3/8"	G3/8"	G1/2"	G3/4"	G1"	G1-1/4"	
出口管径 Exportation caliber	Inch	G3/8"	G3/8"	G1/2"	G3/4"	G1"	G1-1/4"	
外形尺寸 Dimensions	长 Length	mm	232	232	258	398	452	595
	宽 Width	mm	93	116	106	165	210	230
	高 Height	mm	203	203	257	395	447	585



AI系列节能环保空调机适用于人员密集或使用时间短暂且需要快速降温的场所。如：礼堂、会议室、教堂、学校、食堂、体育馆、展览馆、制鞋厂、服装厂、玩具厂、菜市场等。有污染性气体或气味浓烈、粉尘较大的场所。如：医院大厅、候诊室、厨房以及化工厂、塑料厂、电子厂、化纤厂、皮革厂、喷涂丝印厂、橡胶厂、印染厂、纺织厂、养殖厂等；有发热设备或高温热源的生产场所。如：机械加工、注塑、电镀、冶金、印刷、食品化工、玻璃、家电等生产车间；需要门户开放的商场、超市、游乐场、娱乐场、候车室；农业科研培植中心或基地、温室等；低噪音设计提供的清凉新鲜空气也适用于办公室、别墅等场所。

AI series of energy-saving and environmentally friendly air-conditioning in a short time or staff intensive and require rapid cooling places. Such as : auditorium, conference rooms, churches, schools, canteens Coliseum Pavilion, shoe factories, garment factories, toy factories, markets, and so on. Polluting gases or odors thick dust and larger venues. Such as : hospital hall, the waiting room, the kitchen and chemical plants, plastics plants, factories, chemical fiber plants, tanneries, Spraying silk screen factory, rubber plants, dye houses, mills, breeding; a high-temperature heat source heating equipment or production sites. Such as : machining, injection molding, electroplating, metallurgy, printing, food and chemicals, glass, household appliance production workshop; Need an open door in the shopping malls Supermarkets, playgrounds, amusement park, waiting room; cultivated agricultural research centers or bases greenhouse; low-noise design also applies to the Office of the cool fresh air, villas and other places.



- 运行成本低，耗电量只有其传统压缩机空调的1/6-1/8。
- 它是无氟利昂冷媒、无污染的完全环保型产品。
- 在较潮湿地区（如南方地区），一般能达到3-8℃明显降温效果；在特别炎热干燥的地区（如北方、西北地区），降温幅度能达到8-15℃。
- 时刻保持室内空气干净、清洁、卫生、完全无传统空调带来的不适感。
- 风量、振动小、噪音低，目前是同类产品中噪音最低的节能环保空调。
- 可实现定时开机、定时关机、定时自动清洗功能，实现了无人操作自动运行。
- 液晶显示时钟，以及制冷后的温度，湿度等状态参数。
- 独家采用新型节能环保FRP（压力克）材料，导热系数更低，使用寿命更长。

- Low operating cost, power consumption is only 1/6-1/8 of the traditional air-conditioning compressor.
- It is without Freon refrigerant, completely clean environmentally friendly products.
- In the more humid areas (such as the south), the general 3-8 ° C to achieve significant cooling effect; In particular, the hot dry areas (eg north and the northwest region), the range of temperature can reach 8-15 ° C.
- Keep indoor air clean, clean, health, totally unsuited to the traditional sense of air conditioning.

- The amount of wind, vibration, low noise, the noise is similar products from the lowest energy-saving and environmentally friendly air-conditioning.
- Can be realized regularly switched regularly elected, regular self-cleaning functions and the operation of unmanned automatic operation.
- LCD clock, and the refrigeration temperature, humidity and other parameters.
- Exclusive use of a new type of energy-saving and environmentally friendly FRP (pressure) has materials, lower thermal conductivity and a longer life.

规格型号 Specification model		AI-12Y	AI-18Y	AI-12G	AI-18G	AI-25G	AI-35G	AI-45G	AI-60G	
风量 Amount of wind	m ³ /H	12000	18000	12000	18000	25000	35000	45000	60000	
风压 Wind pressure	Pa	160	180	160	180	330	480	480	580	
风机 Air blower	类型 Type	轴流式 The axis flows the type						离心式 Centrifugal type		
	功率 Power	HP/KW	1/0.75	1.5/1.1	1/0.75	1.1	5.5	7.5	11	18.5
	电压 Voltage	V	220/380				380			
储水量 Stores Water capacity	L	100	100	50	55	85	110	150	170	
耗水量 Water consumption	L/H	5-10	10-15	5-10	10-15	15-25	25-35	30-45	40-60	
外型尺寸 Outlook size	长 Long	cm	100	100	100	100	145	145	180	180
	宽 Width	cm	100	100	100	100	145	145	180	180
	高 High	cm	185	185	90	100	140	140	180	180
出风口尺寸 Leaves the gusty area size	长Long	mm	500	500	630	630	680	870	920	1100
	宽Width	mm	250	250	630	630	630	760	830	960
重量 Weight	kg	150	150	70	80	200	300	400	420	
适用面积 Is suitable the area	m ²	50-100	100-150	50-100	100-150	170-250	350-720	450-720	800-1100	
最大输送距离 Maximum transportation distance	m	20	25	20	25	80	80	100	120	

AS系列速冻机简介

AS a series of briefings in Freezer

AS系列速冻机，利用环形传递链将置于载物托盘上的产品送入速冻冷库中，在 -30°C 以下的温度中运转40分钟，再把经过速冻硬化的产品送出，是一种高效的、高产的硬化设备。本设备采用氨制冷方式，出厂时配有氨蒸发器与鼓风机。客户可以要求配置双级氨制冷系统。同时，又可以根据客户的要求，采用氟制冷系统。



AS Freezer Series, the ring transmission chain will be displayed on the loading tray quick-frozen product into cold storage. operate in temperatures of -30°C for 40 minutes, then after, courtesy of quick-frozen products sclerosis is a highly efficient, Yield hardening equipment. The use of ammonia refrigeration equipment, and when it leaves the factory equipped with ammonia evaporator blower. Clients can request configuration-level ammonia refrigeration system. Meanwhile, according to the requirements of customers, using fluoride refrigeration system.

规格型号 Specification model			AS-250	AS-500
生产能力 Productivity	T/24H		6	12
托盘数量 Tray quantity	single		50	66
托盘尺寸 Tray size	长Long	mm	1000	1000
	宽 Width	mm	650	650-
库温 Storehouse warm	℃		-38~-30	-38~-30
耗冷量 Consumes Leng Liang	Kcal/h		36000	54000
蒸发面积 Evaporation area	m ²		400	600
风机功率 Air blower power	KW		4.4	6.6
电机 Electrical machinery	形式 Form	无级调速 Stepless speed regulation		
	功率 Power	KW	1.1	1.1
外形尺寸 External dimensions	长 Long	mm	7500	9000
	宽 Width	mm	4000	4000
	高 High	mm	2640	2640



YD系列凝冻机采用卧式搅拌机构，自带有空气压缩机，通过空气减压阀调节空气量，就可以任意控制凝冻物的膨胀率，是工业化生产软凝冻物的理想设备，并采用清洗型泵作进出料泵，清洗方便，不用拆洗，保证料泵不易损坏，延长使用寿命。



YD series aircraft agitated, carrying an air compressor, air conditioning through the air valve. The rate can be arbitrarily controlled Glaze, Glaze The software is ideal for industrial production equipment, access to and use of clean-feed pump for pumping clean convenience, not take it apart to clean it out, to ensure feed pump damaged easily extend life.

规格型号 Specification model			YD-1000	YD-2000
生产能力 Efficiency	L/h		1000	2000
进料温度 Feed temperature	°C		2-4	2-4°C
出料温度 Ejection of compact temperature	°C		-4 ~ -6°C	-4 ~ -6°C
制冷剂 Refrigerant			氨	
耗冷量 Consume cold amounts	Kcal/h		25000	54000
进料口径 Feed caliber	mm		Dg25	Dg40
出料口径 Ejection of compact caliber	mm		Dg40	Dg50
总功率 General power	KW		16.5	24.2
外形尺寸 External dimensions	长 Long	mm	1980	2600
	宽 Width	mm	800	800
	高 High	mm	2100	2500



MK系列冷冻式干燥机简介

MK series freezing type dryer synopsis

MK系列冷冻式压缩空气干燥机利用制冷技术，使压缩空气冷却到一定的零点温度，使所含蒸汽凝结成液态，通过机内独特的结构系统，在重力沉降，撞击、离心及弥散等作用下，把冷凝液滴及以贮气罐，主过滤器初步处理后的压缩空气中残留的大部分固体颗粒和油滴高度积聚，再经高效分离器，从压缩空气中分离出来，并通过自动排水器或定期排放排出机体外，从而得到无水，含尘（油）量极少的高净压缩空气，使气动系统保持良好的工作状态。MK系列冷冻式压缩空气干燥机是各类空气压缩机最好的处理设备，是气动控制、气动工具、喷漆涂装精密机械，食品包装轻纺化工等各行业理想的洁净气源装备。

MK series Freeze Dryer use refrigeration technology—compressed air, compressed air cooled to a temperature of 0.1. Steam condenses into liquid contained so that the unique structure of the aircraft system, gravity, collision, Under such diffusion and centrifugation, and condensation droplets in air tank. Main compressed air filters after initial treatment residues most high accumulation of solid particles and oil droplets. via efficient separator, separated from the compressed air and drainage devices or through automatic discharge from regular body, thus water, dust (oil) is extremely rare in the high net compressed air, pneumatic system to maintain good working condition. MK chilled compressed air dryer series is the best processing equipment types of air compressors, pneumatic control. Pneumatic tools, paint coating precision machinery, light textiles, food packaging and other chemical industries ideal clean gas equipment.



- 选用美日名厂全封闭压缩机，效率高，耐磨损，冷冻能力强，运转低负载，适应负荷多变的压缩空气系统。
- 所有机型内置后冷却器，将输入空气温度降低，减少热交换器及蒸发器负荷，进风温度最高可达80℃。
- 机内管路系统的设计充分考虑了压缩空气净化的各种原理，使冷凝液滴及大部分固体颗粒和油滴，通过重力沉降、撞击、高速离心、折转以及弥散等作用高度积聚，再经汽液分离器从自动排水器排出机外。
- 冷却蒸发器采用大面积热交及直立于回螺旋的结构，使压缩空气在蒸发器内长时间停留，保证热交换充分，可凝结更多的气态水份成液滴，保持最佳干燥效果。
- 采用热气旁路及冷凝压力双重控制方式，在额定范围内，不管流量大小，负荷变化快慢，空气压力露点均恒定于 $1.7 \pm 1^{\circ}\text{C}$ ，确保压缩空气的干燥品质。
- 机组预冷/热交换设计，减少50%的冷冻系统负荷，使制冷压缩机低负荷工作，散热风扇（风冷）随环境温度负荷大小自动调节开停，更省电节能。
- 机内设双重热交换，充分回收利用机组制冷系统本身能源，减少蒸发器负载，排除下游管道外壁结露现象，确保气动系统的可靠性；冷媒经冷凝器后再进入热交换，减轻冷凝器的负荷，提高制冷系统能效比，增加机组稳定性，使干燥机在较恶劣的环境下亦能正常工作。
- 机组内部大尺寸的气流通道及独特的管路，确保了较低的压力差，具有高过载能力和持久耐脏，可长时间确保蒸发器及热交换器的换热效果。
- 机组内置独特的多级汽液分离器，在各种工况，气流条件下，高效分离去除压缩空气中99%以上的冷凝水及绝大部分固体颗粒和油滴，最大限度保证下游管道系统气源的洁净。
- The United States and Japan were all closed compressor plant, high efficiency, resistance to wear frozen ability, low-load operation. compressed air system load changes.
- Models built after cooler, the air temperature input, reduce heat exchanger and evaporator load. inlet temperature of 80°C maximum.
- Within the piping system design takes full account of the principles of compressed air purification. so that the majority of solid particles and oil droplets and droplet condensation, through gravity, impact and high-speed centrifugation. reflex and the accumulation of highly dispersed etc., and then the vapor-liquid separator from automatic drainage device from the plane.
- And large-scale thermal evaporator tower at the back and turn the spiral structure so that compressed air for a long time to stay in the Festival to ensure adequate thermal exchange, the more vapor condensed into water droplets. remain in the best drying results.
- Using the steam condensing pressure double bypass and control in areas rated, regardless of the size of flows, load speed, Air pressure is constant at $1.7 \pm 1^{\circ}\text{C}$ dew point to ensure that the dry compressed air quality.
- Group pre-cooling / heat exchanger design, a 50% reduction in the cooling load, low load refrigeration compressors. Cooling fans (cooled) with the ambient temperature OFF automatically adjust the load, energy saving energy.
- Which consists of double heat exchange unit refrigeration system itself fully recovered energy use, reduce evaporator load. exclude downstream pipeline wall condensation, the pneumatic system to ensure reliability; After entering the heat exchanger after the refrigerant condensers, lighten the load condenser, cooling system energy efficiency, increase stability crew, so bad dryer than in a normal environment can work.
- The Group's large size and unique gas pipeline crossings to ensure that the lower the pressure difference, high acceleration load and lasting Naizang be prolonged to ensure that the heat exchanger and evaporator heat transfer effectiveness.
- The group built a unique multi-level vapor-liquid separator, in various conditions, air conditions, Separation of more than 99% removal efficiency of the compressed air condensate and most solid particles and oil droplets. Lower gas pipeline system to ensure maximum cleanliness.

MK系列冷冻式干燥机技术参数
MK series freezing drying machinetechology parameter

风冷冷冻式压缩空气干燥机 Groundless dyadic cold jelly air compression drying machine									
规格型号 Specification type		MK-37C	MK-75C	MK-150C	MK-220C	MK-370C	MK-550C	MK-750C	
流量Rate of flow	m ³ /min(ANR)	0.47	1.0	2.4	3.6	6.2	9.2	14.2	
压力露点 Pressure dew point	°C	2~10							
进风温度 Enter wind the temperature	°C	<80							
压力 Pressure	MPa(kgf/cm ²)	0.15~1.0(1.5~10.2)							
环境温度Ambient temperature	°C	2~38							
冷媒压缩机 Cryogen compression engine	KW/HP	0.19/1/4	0.38/1/2	0.57/3/4	0.75/1	1.13/1.5	1.50/2	2.25/3	
冷媒 Cryogen		R12		R22					
适用空压机 Apply to air compressor	KW/HP	3.7/5	7.5/10	15/20	22/30	37/50	55/75	75/100	
电源Power source		220/1/50(60)							
接管口径 Take over caliber	Inch	1/2"	3/4"	1"	1-1/2"	1-1/2"	1-1/2"	2"	
重量 Weight	kg	35	50	90	110	180	200	260	
外型尺寸 Exterior dimension	长 Long	mm	500	610	710	710	850	880	1050
	宽 Width	mm	460	535	510	590	600	620	760
	高 High	mm	550	710	965	1020	1100	1150	1250
水冷冷冻式压缩空气干燥机 Hydrocooling freezes dyadic air compression drying machine									
型号 Type		MK-1200W	MK-1250W	MK-1500W	MK-1900W	MK-2400W	MK-3000W	MK-3600W	
流量 Rate of flow	m ³ /min(ANR)	18.7	23.8	30.6	36.5	44.2	56.1	72.3	
压力露点 Pressure dew point	°C	2~10							
进风温度 Enter wind the temperature	°C	<80							
压力 Pressure	MPa(kgf/cm ²)	0.15~1.0(1.5~10.2)							
环境温度 Ambient temperature	°C	2~38							
冷媒压缩机 Cryogen compression engine	KW/HP	3/4	3.75/5	5.63/7.5	6/8	7.5/10	9.38/12.5	15/20	
冷媒 Cryogen		R22							
适用空压机 Apply to air compressor	KW/HP	120/160	125/170	150/200	190/250	240/320	300/400	360/480	
电源 Power source		380/3/50 (60)							
冷却水量 Water yield cooling down	L/min	85	90	108	120	148	192	250	
接管口径 Take over caliber	Inch	2-1/2"	3"	4"	4"	5"	5"	6"	
重量 Weight	kg	380	540	600	650	980	1200	1900	
外型尺寸 Exterior dimension	长 Long	mm	1600	1600	1700	1700	1800	1850	2000
	宽 Width	mm	750	750	800	900	1100	1100	1150
	高 High	mm	1500	1500	1600	1650	1700	1800	1900

AX系列工业除湿机简介

AX series of briefings industrial dehumidifiers

AX系列工业除湿机专为工、商、农等各行业而设计，有不同型号供选择，满足各种应用场所的空间除湿或产品、原材料的干燥贮存需要。本机用制冷原理把室内空气吸入降到露点温度以下，使空气中的气态水分凝结成液态水滴分离，再通过压缩机工作的冷凝热升温或调温排出，达到除湿的效果。有效保持空气干燥，降低空调加温成本；抑制霉菌的生长速度；维持湿度平衡；减少物品因受潮、腐蚀和变质而造成的损失。广泛运用于空间的除湿干燥，如生产车间、地下建筑物、实验室、仓库、泳池、机房、档案室、图书馆以及存放电子器件、仪表、半导体、光学仪器、精密机械、科学物品、百货、中药材和银行票库或其他需要除湿的空间；产品、原材料的干燥贮存：如食品、化工、水产品、农副产品、印刷、药材、木材、家具、造纸、聚酯纤维等行业的原材料、半成品、成品的干燥除湿或贮存；其它有湿度要求的空调、工艺或生产流程等。

AX series of industrial dehumidifiers for industrial, commercial, agricultural and other sectors for which it was designed with different models to choose from. dehumidifier or satisfy different applications of space products and raw materials need to dry storage. The machine refrigeration put respirable indoor air temperature dropped to below dew point. Water vapor in the air condenses into liquid water drops were separated, and through the work of the compressor or condensing heat Temperature warming emissions. Dehumidification achieve results. Effectively maintain dry air and reduced air conditioning heating costs; Inhibit fungal growth rate; Maintain moisture balance; reduce articles wet, the losses caused by corrosion and deterioration. Dehumidification widely used in space, such as production shops, underground buildings, laboratories, warehouses, swimming pools, rooms, archives, libraries and electronic storage devices, instruments, semiconductors, optical equipment, precision machinery, materials science, department stores, Chinese Village and the banks need to vote or other desiccant space; products and raw materials such as dry storage : food, chemicals, aquatic products, agricultural and sideline products, printing, medicine, timber, furniture, paper, the raw material for polyester fiber and other industries, semi dehumidifier or storage of the finished product drying; Other humidity, the air-conditioning requirements, such as technology or production processes.



- 选用欧、美、日名厂原装全封闭式压缩机、原厂湿度控制器及压力控制保护开关。
- 适应性强，在低温、阴冷或高温、高湿的环境下均可正常使用。
- 湿度自动控制，在适当湿度时停机或开机达到运转经济的目的。
- 机组安装操作方便，普通型及挂墙式可放置（固定）于室内任何位置，接上电源及排水管后即可投入使用；高温型接上风管、电源、排水管后即可投入使用。
- 挂墙式结构紧凑，体积小，不占用地面位置，特别适用于体积有限而又需要除湿的空间。
- 调温型在高温高湿环境下，可运行冷风除湿工况，与空调机无异；低温阴冷潮湿环境下，运行升温除湿工况。
- 内置后冷却器，确保机组运行稳定及高效节能。
- 全自动压力调节，在使用温度范围内，确保最佳工作状态。

- The use of the EU, the United States, Japan bought fully closed compressor manufacturers, dealers and humidity controls to protect pressure control switch.
- Strong adaptability and low temperature, cold or hot, humid environment may normal use.
- Humidity control, proper humidity in the stands or switched to achieve functioning economy.
- The unit easy installation and operation, which can be mounted and placed ordinary type (fixed) in any indoor location. Power and can be connected to the drain after use; Duct-connected high-temperature, power supply, drainage pipes ready for use.
- Frames-compact, compact size, location off the ground. particularly applicable to the limited volume of space and in need of dehumidifiers. Sis 6-regulated type in a hot and humid environment, the operational conditions of wind dehumidifiers, air conditioners and the same; hypothermia, cold, damp environment, the operating temperature desiccant condition.
- Built after cooler, ensure the stability and efficient operation of energy.
- Automatic pressure regulation, the use of temperature range, ensuring optimum working condition.

型号 Model		AX-750	AX-1150	AX-1500	AX-2200	AX-3750	AX-6000	AX-7500	AX-15000	AX-22000	AX-30000	
除湿能力 Eliminates the wet ability	L/h	2.5	4	6	8	13	20	25	50	75	100	
使用温度范围 Application temperature scope	°C	1-40										
电源 Power source		1 ϕ 220V50/60HZ				3 ϕ 3800V50/60HZ						
温度控制器 Temperature controller		30%RH-90%RH										
功率 Power	Kw	0.91	1.41	1.72	2.75	4.80	7.50	9.60	19.00	28.50	39.00	
风量 Amount of wind	M ³ /h	900	1200	1500	2000	3000	4500	6000	11000	16000	22500	
压缩机 Compressor		全封闭/半封闭 Entire seal/half seal										
蒸发器 Evaporator		交叉翅片管 Overlapping wing piece tube										
冷凝器 Condenser		交叉翅片管 Overlapping wing piece tube										
冷媒 Refrigerant		R-22										
型式 Pattern		直吹型/风管型 Direct-/ duct -										
排水口径 Draining water caliber	inch	1/2"			3/4"			1"		1-1/2"		
外形尺寸 Contour Size	高 High	mm	1200	1200	1200	1200	1510	1760	1760	1950	2000	2000
	宽 Width	mm	610	620	870	970	1010	1260	1500	1750	2000	2300
	深 Deep	mm	330	335	360	430	430	550	550	600	850	1100



CM系列制冰机主要零部件均由国外进口，产品设计美观、性能优越，控制系统采用微电脑全自动控制，操作简单方便。CM系列制冰机是引进国外先进技术设计制造的专业产品，其技术水平已达到国际领先水平，深受国内外专家的好评。

CM Series ice machine parts are imported, product design aesthetics, superior performance, microcomputer control system fully automatic control, simple operation. CM Series ice machine is the introduction of foreign advanced technology design and manufacture of professional products, their technical level has reached the international advanced standard, popular domestic experts.



- 螺旋式滚刀、阻力小、损耗低、无噪音、产冰均匀。
 - 主要零部件皆来自美、德、日等具有领先制冷技术的国家。性能更稳定，能耗更低。
 - 双面不锈钢库板，保证冰片卫生。另可根据客户所需，给以随心所欲的储冰空间。
 - 制冷、制冰系统皆采用微电脑全自动控制。缺相、反转、冰满与高低压的全方位保护，有效防止非正常运转，降低机器损坏率。
 - 立式设计固定静止，减少磨损，密封性高，有效防止制冷剂泄露。优质304不锈钢材质及全自动氩氟焊接，全面提升强度与精度。
 - 满液式蒸发，制冷剂得到充分蒸发，产冰量大大提高，延长压缩机使用寿命。
-
- Spiral hob, resistance, low wear and tear, no noise, producing ice uniform.
 - Main parts were from the United States, Germany, Japan and other leading refrigeration technology with the country. Performance of a more stable, lower energy consumption.
 - Double stainless steel plate reservoir to ensure borneol health. Clients may be required, giving the former ice storage space.
 - Refrigeration, ice microcomputer automatic control system were adopted. Lack of phase inversion, the ice age and all high-voltage and low-voltage protection, effectively preventing non-normal operation, lower failure rate of machines.
 - A fixed stationary vertical design, reduce wear and tightness, effectively preventing the refrigerant leakage. Automatic argon fluoride quality 304 stainless steel and welding materials, enhance strength and accuracy.
 - Flooded evaporator, the refrigerant is fully vaporized, greatly increased production of ice, extending compressor life.

规格型号 Specification model		CM-O4	CM-O5	CM-O5	CM-O5	CM-O5	CM-12	CM-12	CM-12	CM-25	CM-12	CM-40
制冰能力 System ice ability	kg/24H	400	500	600	800	1000	1200	1500	2000	2500	3000	4000
储冰量 Interest on ice	kg	300	300	300	400	400	400	400	500	500	1200	1200
制冷量 Refrigeration quantity	kcal/h	2000	2350	3000	4000	5000	6000	7500	10000	12500	15000	20000
压缩机功率 Compressor power	HP	3	3.5	4	5	7	9	9	12	12	15	15
压缩机 Compressor	美国谷轮/德国比泽尔 An American valley turn of/Germany compares Zelle											
冷媒 Refrigerant	R22/R404A											
压缩机输入功率 Compressor power	KW	1.7	2	2.45	2.6	3.4	5	6	6.9	8.75	9.25	11
减速机功率 Speed reducer power	KW	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.55	0.55	0.55	0.55
循环水泵功率 Circulating Pump Power	KW	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.1	0.1	0.1
总功率 Total power	KW	2.4	2.8	3.2	3.4	4.2	5.75	7	8.2	10	11	12.6
片冰厚度 Sheet ice thickness	mm	1.5-2.2	1.5-2.2	1.5-2.2	1.5-2.2	1.5-2.2	1.5-2.2	1.5-2.2	1.5-2.2	1.5-2.2	1.5-2.2	1.5-2.2
电源 Power source	三相380V/50HZ Three-phase 380V/50HZ											
冷却方式 Coolant conditions	风冷 Forced-air cooling											
给水管径 For water caliber	inch	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	7/8"	7/8"	11/8"
落冰口直径 Falls the ice mouth diameter	mm	360	360	360	460	460	460	460	460	660	660	660
重量 Weight	KG	205	205	215	310	380	400	430	460	480	500	560
长 Long	mm	1270	1270	1270	1320	1320	1320	1320	1510	1700	1800	1800
宽 Width	mm	1030	1030	1030	1281	1281	1281	1281	1400	1400	1640	1524
高 High	mm	1850	1850	1850	2100	2200	2220	2220	2520	2740	2940	1600

AD系列低温冷凝机组简介

AD series low temperature condensing unit

AD系列低温冷凝机组以全球优质名牌压缩机为主机，单台压缩机功率从0.6HP-160HP。随着制冷设备市场的快速发展，低温冷库、制冰设备、速冻设备越来越多，传统的制冷设备已很难满足这些实际工作过程中的各种需求。本公司开发的AD系列低温冷凝机组，可满足于-180℃~0℃的需要，可在各种低温制冷设备中得到广泛使用，主要应用于各种滑冰场、冷库、保鲜库、冷冻冷藏库、酒店商场、医药库、食用菌菇库等等。

AD series low temperature condensing unit with a global high quality famous brand compressor as a host, a single compressor power from 0.6HP-160HP. With the rapid development of refrigeration equipment market, low temperature cold storage and ice-making equipment, freezing equipment more and more, conventional refrigeration equipment is hard to meet the needs of these in the course of practical work. Low temperature condensing unit developed by the AD series, can meet the needs range from -180 ° c ~ 0 ° c, can be widely used in a variety of low-temperature refrigeration equipment, mainly used in skating rink, cold storage, cold storage, refrigeration, hotel shopping malls, medical library, edible mushroom, and so on.



- 采用全球优质名牌压缩机，具有效率高、寿命长、震动小、噪音低等特点。
- 机组配置齐全，主要制冷配件及控制元件均采用世界知名品牌，可靠性高。
- 机组具有压缩机反转、过热、过载、排气温度、低油位、油流及系统高低压等多种安全保护，确保运行的可靠性。
- 机组可带经济器运行，可大大提高低温工况运行时的制冷量。
- 具有多级能量调节，可适应于不同冷负荷的变化，有效降低能耗。

- Using the global quality name brand compressor, with high efficiency, long life, low vibration, low noise characteristics.
- Units fully equipped, major refrigeration components and control elements are made of world famous brands and high reliability.
- Units with compressors reversal, overheating, overload, low exhaust temperature, oil level, oil flow and high and low pressure systems and other security protection, ensure the reliability of the operation.
- Units can be run with economizer, can greatly increase the cooling capacity of low temperature conditions when running.
- Has multiple levels of energy regulation, can be adapted to different cooling load changes, effectively reduce energy consumption.

规格型号 Model		AD-18	AD-22	AD-28	AD-36	AD-40	AD-50	AD-64	AD-80	AD-100	AD-125	AD-160
压缩机功率 Compressor power	kw	1.45	1.89	2.55	3.37	3.85	4.32	5.66	7.13	7.98	10.66	13.39
适用库温 Applicable Cuvin	°C	-5 ~ 5										
电源 Power		380/3P/50Hz										
制冷剂 Refrigerant		R22										
风机功率 Fan power	w	150	150	200	150X2	150X2	200X2	200X2	200X2	250X2	200X4	200X4
制冷量 Cooling capacity	kw	2.21	3.21	4.7	6.01	6.61	7.4	9.78	12.38	14.34	19.19	24.09
吸气接口尺寸 Suction interface	mm	φ 12	φ 12	φ 12	φ 16	φ 22	φ 22	φ 22	φ 28	φ 28	φ 28	φ 28
供液接口尺寸 Liquid interface	mm	φ 10	φ 10	φ 10	φ 10	φ 12	φ 12	φ 12	φ 16	φ 16	φ 16	φ 16
外形尺寸 Overall dimensions	长 Long	mm	680	680	680	960	960	1060	1300	1300	1300	1300
	宽 Width	mm	610	610	610	680	680	680	750	800	850	850
	高 High	mm	520	520	570	470	520	730	770	970	1170	1520



AE系列换热机组简介

AE series heat transfer unit introduces

AE系列换热机组用于锅炉区域供暖；生活热水；热电厂废热区域供暖；楼宇空调采暖供热。广泛涉及造纸工业、机械工业、纺织工业、化学工业、冶金工业、空调制冷、石油工业、电子工业、油脂工业（加热及冷却各种工艺用液）、电力工业、石油、医药、地热等。用户回水经过过滤器后，经循环泵进入换热器，被蒸汽或高热水加热后向用户提供所需要热水，蒸汽或高热水进入板式换热器后，变成冷凝水或高温回水返回热源处。以此进行两路循环。补水泵将软化水打入系统中补充系统失水，保持系统压力稳定。

AE series of regional heating boiler for heat units; Hot water; Regional Power Plant heat heating; Heating air-conditioned buildings. Involve extensive paper industry, mechanical industry, textile industry, chemical industry, metallurgy industry, the air-conditioning and refrigeration, oil industry, the electronics industry. Oil Industry (heating and cooling technology using various liquid), the electric power industry, oil, medicine, and geothermal. After users backflow filters, by circulating pump into the heat exchanger. water heated by steam or high water to the users needs, steam or hot water into the plate heat exchanger, condensate return backwater into a high-temperature heat source or Office. Both for this cycle. Demineralized water supply pump will be added into the system LOCA system to maintain system pressure and stability.



- 机组即可供热，又可供冷，还可实现冷热两用。
- 机组结构占地小，换热效率高。
- 设备在生产过程中的运行、维修费用低。
- 机组自控系统自动代程度高、敏感性强、温度准确、波动小，全智能代的自动控制，节约用户人力资源。与热力站集中控制室或当地的楼宇自控连接，实现远程监控。
- 设备的操作、清洗简洁方便，外形美观，经济实用。
- 系统设计合理、热损失少、比摩阻小。
- 为用户节省大量的安装费用。开机后能很快达到设计运行工况。

- The unit will supply heat while cooling, but also dual-use heat and cool.
- The unit's structure occupies a small, highly efficient heat exchanger.
- The operating equipment in the production process, and low maintenance costs.
- Unit control system automatically substituting a high degree of sensitivity strong, accurate temperature fluctuations small, the entire generation of intelligent automation saving users human resources. And the thermal station or control room S600 connecting to realize remote control.
- The operation of clean simple convenience pleasing in appearance, economical and practical. Sis
- System design, heat loss less than the friction small.
- The installation cost savings to users. After quickly switched the design operating conditions.

机组型号 Unit model	最大产热量 Most easy childbirth quantity of heat	二次侧最大流量 Two sides maximum current capacities	外型尺寸 Outlook size			重量 Weight
			长 Long	宽 Width	高 High	
	10 ⁴ kcal/h	m ³ /h	mm	mm	mm	kg
AE-291	25	10	1600	1200	1600	1200
AE-581	50	20	2000	1400	1600	1400
AE-1163	100	40	2000	1400	1600	1400
AE-1744	150	60	2400	1600	1600	1800
AE-2326	200	80	2400	1600	1600	1800
AE-2907	250	100	2800	2000	1800	2200
AE-3488	300	120	2800	2000	1800	2200
AE-4070	350	140	2800	2000	1800	2200
AE-4651	400	160	3400	2400	2200	2600
AE-5233	450	180	3400	2400	2200	2600
AE-5814	500	200	3400	2400	2200	2800
AE-9302	800	320	4600	2600	2400	3600



AT系列闭式循环冷却塔(蒸发式冷凝器)简介

AT series closed-cycle cooling towers (evaporative condensers) introduction

AT系列闭式循环冷却塔(蒸发式冷凝器)采用两级方式冷却，一级冷却采用风冷，依靠风对冷却器盘管进行冷却；二级冷却采用风冷和喷淋，在环境温度比较高时使用二级冷却，在风冷的同时喷淋系统将水淋到冷却器表面上，在水蒸发时能够带走盘管的热量，通过顶部的风机把湿热空气经脱水器回收后排出机外，从而达到冷却效果。环境温度比较低时，采用一级冷却。喷淋水的消耗量也仅为单位流量0.1-0.2%。AT系列闭式循环冷却塔(蒸发式冷凝器)作为热处理行业的主要辅助设备，已广泛运用于热处理淬火介质、可控气氛多用炉、感应加热炉、真空炉等等；同时也广泛适用于中央空调、锻造、铸造、化工、食品、注塑、印刷、发电机组、电厂、玻璃熔窑等领域。

AT series closed type cycle cooling tower (evaporation type condensation Manager) used two level way cooling, level cooling used wind cold, relies on wind on cooling Manager disc tube for cooling; II level cooling used wind cold and spray shower, in environment temperature comparison high Shi using II level cooling, in wind cold of while spray shower system will water shower to cooling Manager surface Shang, in water evaporation Shi to took disc tube of heat, through top Department of wind machine to hot and humid air by dehydration Manager recovery Hou discharge machine outside, to reached cooling effect. Ambient temperatures than at lower level cooler. Spray flow, water consumption is only 0.1-0.2%. AT series closed-cycle cooling towers (evaporative condensers) as the main auxiliary equipment of heat treatment industry, has been widely used in heat treatment quenching medium, controlled atmosphere furnaces, vacuum furnaces, induction heating furnace and so on; but also widely used in central air conditioning, forging, foundry, chemicals, food, plastic injection molding, printing, generators, power plant, glass melting furnaces, and other fields.



- 采用三防铝壳风机，安装在特制的引风筒内，顶部采用热镀锌钢丝网罩加以保护。风机电机采用防腐等级IP55级，绝缘等级为F级。
- 整个闭式冷却塔机组采用热镀锌钢板制作，所有焊接部分都涂上含锌95%以上的富锌漆。表面喷涂环保型蓝色锤纹漆，以加强防腐性能。可根据用户需求调整材质。
- 采用立式离心泵提供足够的喷淋水量，确保整套盘管组完全包容在水流中。喷淋管采用标准PVC材料制造保证其防腐性能。喷淋水由精密模塑制造的ABS喷嘴均匀的喷洒的盘管表面。
- 冷却盘管采用国际标准，纯度为99.9%的T2脱酸紫铜管制作，传热效率高。采用交叉排列，提高了传热效率，减小了通过机组的空气压力降。装备好后的盘管在水中经过1.2Mpa空气试压，以确保无泄漏。
- (脱水器)挡水器由PVC材料制成，分组安装在机组内。脱水器有三次转向式设计以保证阻挡住排气气流中夹带的水分。使最大水分飘逸率小于循环水量的0.1%。
- 进风格栅由PVC材料构成，安装在机组周围便于拆装的框架上，以便进出水盘维护维修工作，格栅有两次空气转向防止溅水和阳光直射水盘。具有空气减速区，有效将吸气方向引向风机。
- 补水口采用不锈钢浮球阀控制。
- Waterproof aluminium shell blower, installed inside a specially designed air duct, top with a hot-dip galvanized steel wire guard to protect it. Fan motors using corrosion protection grade IP55, insulation class f-class.
- The entire closed cooling tower units with hot-dip galvanized sheet steel production, all welded parts are coated with zinc-rich paint containing zinc 95% above. Spray environmentally friendly blue hammer finish to enhance corrosion resistance. Material can be adjusted according to user needs.
- Vertical centrifugal pumps provide adequate spray of water, ensure that the coil is fully inclusive package in water. Shower pipe with standard PVC material guarantees its anticorrosion properties. Spray water manufactured by precision molded ABS coil surfaces of nozzle spray evenly.
- The cooling coil of international standards, purity for removing naphthenic acids from 99.9% T2 copper tube production, high heat transfer efficiency. Crosstabulated, increases heat transfer efficiency, reduces the air pressure drop of through the unit. Equip 1.2Mpa air coil after the water pressure testing, to ensure that there are no leaks.
- Retaining water(dehydrator) is made from PVC materials, within the group installed in the unit. Dehydrator has turned to design three times to ensure that stop exhaust of air entrainment in water. Make the maximum water flowing less than 0.1% of the water cycle.
- Grille made of PVC materials, and installed around the unit on the ease of disassembly and Assembly of the framework in order to access disk maintenance and repair work, grille has two air turned to prevent splashing water and direct sunlight. Air gear zone, effective suction the direction towards fans.
- Fill nozzle made of stainless steel ball float valve control.

AT系列闭式循环冷却塔(蒸发式冷凝器)技术参数
AT series closed-cycle cooling towers (evaporative condenser) technical parameters

规格型号 Specification model	冷却能力 Cooling capacity	冷却水量 Cooling water volume	配管尺寸 Pipe size	喷淋泵 Spray pump		风机 Fan		外形尺寸 Overall dimensions			主机自重 Host weight	运转自重 Operating weight
				功率 Power	水量 Water volume	功率 Power	风量 Air volume	长 Length	宽 Width	高 Height		
	kcal/h	m ³ /h	mm	kw	m ³ /h	kw	m ³ /h	mm	mm	mm	kg	kg
AT-8	53600	8	DN50	0.55	11	0.55	10200	1500	1250	2500	520	1120
AT-10	67000	10	DN65	0.55	11	0.55 × 2	12700	1800	1500	2300	640	1900
AT-15	100500	15	DN65	0.55	12	0.75 × 2	19200	1800	1500	2500	710	1980
AT-20	134000	20	DN80	0.75	15	0.75 × 2	25500	2000	1800	2500	810	2500
AT-30	201000	30	DN80	1.1	25	1.5 × 2	38400	2000	1800	2650	920	2200
AT-40	268000	40	DN100	1.1	40	1.5 × 2	51100	2500	1800	2730	1200	2860
AT-50	335000	50	DN100	1.5	45	1.5 × 2	64000	2500	2000	2990	1380	3200
AT-65	435500	65	DN100	1.5	50	2.2 × 2	83200	2650	2300	3000	1620	3980
AT-80	536000	80	DN125	3	80	3 × 2	102000	3300	2300	3100	2280	5330
AT-100	670000	100	DN125	4	103	2.2 × 3	128000	4100	2750	3200	2800	7150
AT-125	837500	125	DN150	4	103	4 × 2	160000	4500	2700	3210	3290	7780
AT-150	1005000	150	DN150	5.5	140	3 × 3	192000	5000	3200	3940	3880	9800
AT-175	1172500	175	DN125 × 2	5.5	150	5.5 × 3	224000	4800	3000	4630	5320	11000



ST系列玻璃纤维冷却塔简介

ST series glass fiber cooling tower synopsis

ST系列玻璃纤维冷却塔采用优质PVC散热胶片、且设计形状更有效地延长高温水跟冷却风接触时间，所以冷却效果特佳。外壳底盘采用优质高强度玻璃纤维制成，外形美观，防腐及抵抗外界恶劣环境能力特强，转动及接合部分采用优质原料加工，大大提高使用寿命及接合强度。



ST series fiberglass cooling tower heat using quality PVC films. also designed to extend the high-temperature water to shape a more effective contact with the cooling time, particularly good cooling effect. Coat chassis using high-strength glass fiber quality, pleasing in appearance, anti-corrosion resistance and adverse external environment capability is particularly strong. rotation and added some high-quality raw materials used for processing, thereby greatly increasing life expectancy and tensile strength.

ST系列玻璃纤维冷却塔技术参数
ST series fiberglass cooling tower technology parameter

型号 Model			ST-8	ST-10	ST-15	ST-20	ST-25	ST-30	ST-40	ST-50	ST-60	ST-80	ST-100	ST-125	ST-150	
资料 Data	流量 Nominal flow	m ³ /h	6.23	7.81	11.7	15.62	19.51	23.4	31.21	39.24	46.8	62.64	78.12	97.56	117	
	风量 Air volume	CMM	70	85	140	160	200	230	280	330	420	450	700	830	950	
	马达 Motor	KW	0.18	0.18	0.37	0.56	0.75	0.75	1.5	1.5	1.5	1.5	2.25	2.25	2.25	
	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	
	净重 Dry weight	KG	42	46	54	67	98	116	130	190	240	260	500	540	580	
	运行重量 Wet weight	KG	180	190	290	300	500	530	550	975	1250	1280	1600	1640	1680	
管道 Piping	入水 Water inlet	WI	40	40	50	50	80	80	80	80	100	100	125	125	150	
	出水 Water outlet	WO	40	40	50	50	80	80	80	80	100	100	125	125	150	
	满水 Overflow	OF	25	25	25	25	25	25	25	25	25	25	50	50	50	
	排水 Drain	DR	25	25	25	25	25	25	25	25	25	25	50	50	50	
	浮波 Flow valve	FV	15	15	15	15	15	15	15	15	20	20	20	20	20	
	壳身 Casing	CH	940	1070	855	1140	1385	1130	1255	1255	1290	1455	1595	1780	1780	
	水盆 Water basin	WH	420	420	450	450	340	340	340	420	460	460	450	450	450	
	入水 Water inlet	IH	270	270	280	280	175	175	175	230	295	295	300	300	300	
	出水 Water outlet	OH	180	180	190	190	115	115	115	125	200	200	230	230	230	
	基础 Foundation	FH	250	250	250	250	300	300	300	300	300	300	300	300	300	
尺寸 Dimension	基础 Foundation	FS	250	250	250	250	300	300	300	300	300	300	300	300	300	
	索结 L Socket L	SL	390	390	515	515	600	780	780	835	915	915	1430	1430	1430	
材料 Material	带动方式 Drivetype		直接 Direct													
	风扇 Exhaust fan	EF01	塑料 Polycarbonate								玻璃钢/铝合金 F.R.P./Aluminum Alloy					
	马达 motor	MT02	全封闭式马达 T.E.F.C. 380V/3PH/50Hz													
	马达架 Motor support	MS03	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													
	灌水系统 Sprinkler system	SP08	塑料及塑料管 Polycarbonate & P.V.C. Pipe						铝合金/塑料管 Alum. Alloy & P. V. C. Pipe							
	隔水袖 Eliminator	ET10	—				玻璃钢 Fibreglass reinforced polyester									
	入风支架 Air inlet support	AI11	塑料及塑料管 Polycarbonate & P.V.C. Pipe								镀锌钢及塑料管 G. I. Steel & P. V. C. Mesh					
	水塔支架 Tower support	TS12	玻璃钢 Fibreglass reinforced polyester													
	喉管 Piping	PP14	塑料管 P. V. C. Pipe													

请参照第一页附图 please refer to diagram on page 1

HL系列管道式离心泵简介

HL series pipeline type centrifugal pump synopsis

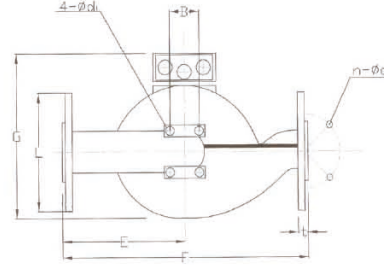
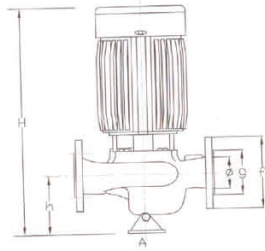
- 国际先进电机设计标准设计的水泵专用电机，具有体积小，重量轻、不占空间，可配合安装于管路之任何位置。
- 采用特殊专利工艺设计叶轮，使本水泵具有同等功率电机配同等口径水泵时，比普通水泵的扬程高、水量大，而负载电流反而小的特点，所以本泵耗电量少。
- 7.5KW以下适合3相380V/50Hz、3相220V/60Hz两种类型电压使用（Y接法为380V/50Hz Δ 接法为220V/60Hz）。
- 采用进口轴承，转子及叶轮经严格平衡管制，轴承比通常电机大一级使电机噪音震动极小，适合噪音严格管制地方使用。
- 轴封采用美国进口材料，台湾加工生产UA型轴封，经久耐用，永不漏水，适合0°C–120°C物理性质类似水的液体使用。
- 全密式马达，可不加任何挡雨装置下工作，轴用45钢经特殊工艺处理，永不生锈。
- 本水泵唯一需要注意的是严禁空转及反转运行，开动时用排气嘴排放空气，放完后即可长期运转使用。



- Advanced motor design standards designed special motor pump is small in size, light weight, takes up space can be installed in line with any position.
- Impeller design using special proprietary processes, so that the pump motor is the same caliber have the same pump power, Lift pumps than ordinary high water, but a small load current characteristics of the pump power consumption is less so.
- Suitable for the following three-phase 380V/50Hz 7.5KW.
- Two types of three-phase voltage 220V/60Hz use (Y-connection and the connection of 220 to 380V/50Hz Δ V/60Hz).
- Import bearing, rotor and impeller balance strict controls Bearing motor noise level greater than the electrical shock is very small and suitable for use strict control noise. Li seals used material imports to the United States, Taiwan-processing UA seals, durable, never leaks. 0 –120 ° C for similar physical properties of liquid water use.
- Close-wide motor, but the device under any rain, steel shaft 45 by special treatment, never rust.
- One only need to pay attention to is no idling pumps and reverse operation, running speed when using exhaust emissions. After long-term operation can be used up.

HL系列管道式离心泵技术参数 HL series pipeline type centrifugal pump Technology parameter

规格 型号 Model	流量 Capacity		扬程 Head h	转速 Rotation Speed	轴功率 Brake power pa	配用电动机 motor		效率 Efficenc	必须汽蚀余量 NPSHr	出入口口径 Inlet diameter	适用冷气系统 Reconnended air condition system
						功率 power	电压Vol				
	m ³ /h	l/s	m	r/min	kw	kw	v	%	m	mm	RT
HL32-12	4	1.11	12	2800	0.28	0.37	220/380	42	3	32	3~5
HL40-16	11.4	3.16	16	2900	0.59	0.75	220/380	58.5	3.2	40	15~20
HL50-18	18	5	18	2900	1.00	1.24	220/380	66	3.5	50	25~30
HL65-20	25	6.94	20	2900	1.85	2.2	220/380	70	3.5	65	40~50
HL80-23	42	11.67	23	2900	3.25	4	220/380	74	2.5	80	60~80
HL100-20	90	25	20	2900	6.2	5.5	220/380	75	4	100	120~150
HL125-16	160	44.4	16	1450	9.01	7.5	220/380	78	3.5	125	160~200
HL150-20	200	55.6	20	1480	13.96	15	220/380	78	3.5	150	200~240
HL200-18	280	77.8	18	1480	17.16	22	380	80	4.5	200	240~340
HL250-20	400	90.8	20	1480	23.40	30	380	80	3.5	250	340~440



型号 Model	外形尺寸 Outline dimensions								进出口法兰尺寸 Inlet & outlet frange dimensions							重量 Weigt
	h	H	L	B	D ¹	E	F	G	∅	f	e	g	t	n	d	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
HL32-12	82	353	112	83	10	129	258	220	32	90	49	62	17	4	10	21
HL40-16	92	389	125	83	10	139	278	220	40	117	51	70	17	4	16	25.5
HL50-18	110	448	150	107	12	148	296	240	50	122	60.5	83	19	4	16	35.5
HL65-20	115	477	153	107	12	163	326	240	65	134	67	100	20	4	16	42.5
HL80-23	142	559	190	120	14	188	376	292	80	147	82	122	23	4	16	65
HL100-20	150	602	210	120	14	224	448	340	100	168	95	141	25	4	16	94
HL125-16	180	705	270	120	14	277.5	555	340	125	252	110	160	28	8	20	109
HL150-20	210	1000	290	180	16	300	600	500	150	272	120	200	30	8	22	233
HL200-18	240	1100	320	320	24	400	800	560	200	340	150	250	32	12	24	426
HL250-20	280	1200	300	360	26	450	900	500	250	405	150	300	32	12	24	660