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产品手册

PRODUCT MANUALS

电话: 022-23751899

传真: 022-23751109

网址: <http://tjmkl.com>

地址: 天津市西青区经济技术开发区兴华道18号合达工业区7-2号

天津市美科冷暖设备有限公司

企业文化

Corporate Culture

核心价值——勇于创新，精益求精，专注制冷，用心服务

管理理念——市场是海，质量是船，安全是舵，品牌是帆

经营理念——人才第一，追求卓越，引领变革，共赢共存

服务理念——帮客户出谋划策，替客户分忧解难，为客户
节能省钱，满足客户的一切使用要求。

公司简介 Company Profile

天津市美科冷暖设备有限公司是一家中外合作企业，引进美国技术，专注于工业应用领域制冷设备，控温设备，特种制冷设备，非标定制控温设备的自主研发、生产、销售、服务于一体的现代化高新技术企业。

公司拥有完善的制造设备,先进的检测系统,独立的加工、生产工艺,一支开拓创新专业有素的技术人才团队,以及全面有效的质量控制体系,为产品质量的不断优化提供了强大的保障,以确保满足不同市场的各种需求。经过多年的努力,企业相继研发生产出了工业冷水机、工业冷风机、工业冷油机、低温冷水机、低温冷风机、螺杆式冷水机、冷热一体控温机、电镀冷水机、高精度控温冷水机、防爆冷水机、低温乙二醇冷水机、盐水冷水机、真空镀膜冷水机、模具恒温机、除湿干燥机、冷却塔、制冷制热非标机等100多种工业制冷机械和工业温控设备。

美科公司以产品稳定高效,系统方案节能环保为导向,不断提升和完善产品之品质,所设计之产品及工程,系统能耗及运行安全性均达到国际水平;控温精度 $\pm 0.1^{\circ}\text{C}$ 的高精度控温冷水机,低温可达 -70°C 的复叠超低温冷水机,全年能效比AEER高达4.6的节能型风冷冷水机组等产品广泛用于众多行业和知名企业。产品应用范围:生物制药、汽车制造、实验检测、热处理及焊接、橡塑制品、锂电新能源、金属表面处理、超声波清洗、激光行业、电子、印染、化工、食品、包装制品、机械制造等。

美科公司先后在珠三角-深圳、长三角-苏州、京津冀-天津成立工厂,力争打造成为国内最具实力的工业制冷设备,工业控温设备及非标特种定制制冷设备的专业制造商。

展望未来,我们充满信心,真诚希望能与各界业内朋友携手合作,共同发展,互利多赢,共创辉煌!



 津美科
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功能特点 Special Features

MK系列工业冷水机可提供5-30度出水温度(温差不超过±1℃)。风冷式工业冷水机,结构紧凑,外型精美,采用亲水铝箔翅片式冷凝器,散热快,无需额外冷却设备。制冷量从1316-156249Kcal/h(压缩机功率从0.5-60HP),可广泛应用于各个行业,例如塑胶中的注塑,吸塑,冷水机可以精确的控制塑胶成型模具温度以缩短成型周期,加速产品定型,使产品脱模快、不变形、光洁度好,大大提高了合格率;食品加工行业:包装好的食品快速冷却,巧克力生产线快速降温定型;制革、纺织工业:通过循环冷水来控制辊筒温度,提高生产效率;制药行业:用冷水机控制反应釜、搅拌罐的温度,达到给物料降温的目的。另外也适用于电镀业,化工业、漂染业等其他行业。



MK series industrial water chillers can provide 5-30 degrees of effluent temperature (temperature difference does not exceed (+1 C). Air-cooled water chiller, compact shape, using hydrophilic aluminum foil fin condenser, fast heat dissipation, no additional cooling equipment. Refrigeration capacity from 1316-156249Kcal/h (compressor power from 0.5-60HP), can be widely used in various industries, such as plastic injection, suction, water cooler can accurately control the temperature of plastic forming die to shorten the forming cycle, accelerate product finalization, make the product demoulding fast, no distortion, good finish, greatly improve the qualifications. Food processing industry: fast cooling of packaged food, rapid cooling and setting of chocolate production line; leather and textile industry: through circulating cold water to control roller temperature and improve production efficiency; pharmaceutical industry: using chiller to control the temperature of reaction kettle and mixing tank to achieve the purpose of cooling materials. It is also suitable for electroplating industry, chemical industry, bleaching and dyeing industry and other industries.

Specification Table/规格参数表

风冷式工业冷水机 Air-cooled Industrial Chiller

参数Parameters	型号Model	MK-01A	MK-02A	MK-03A	MK-04A	MK-05A	MK-06A	MK-08A	MK-10A	
制冷量 Cooling capacity	KW/hr	50HZ	2.94	5.67	8.39	10.90	13.95	16.90	21.80	28.01
		60HZ	3.44	6.63	9.82	12.75	16.32	19.77	25.50	32.78
	Kcal	50HZ	2528	4872	7216	9347	11990	14560	18748	24089
		60HZ	2958	5701	8442	10698	14028	17000	21935	28184
温控范围 Temperature range		5℃-常温 (0℃以下可定制) 5℃-Room temperature (Below 0℃ can be customized)								
电源 Power supply		1N-220V 50HZ/60HZ				3N-380V/415V 50HZ/60HZ				
总功率 Total power	KW	1.27	2.02	2.85	3.65	4.86	5.61	7.65	9.9	
压缩机 Compressor	类型 Type	全封闭式螺旋式或活塞式 Hermetic scroll type or piston								
	功率 KW	0.75	1.5	2.2	3	3.75	4.5	6	7.5	
风机 Blower	风量 m³/h	1000	2000	3000	4000	5000	6000	8000	10000	
	功率 KW	0.14	0.14	0.28	0.28	0.36	0.36	0.9	0.9	
冷凝器 Condensator	形式 Form	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin								
蒸发器 Evaporator	水流量 m³/h	0.51	0.97	1.44	1.87	2.40	2.91	3.75	4.82	
	水箱容量 m³	0.59	1.14	1.68	2.19	1.81	3.41	4.39	5.64	
	进出水管径 G	G1/2"	G1/2"	G3/4"	G3/4"	G1"	G1"	G1-1/2"	G2"	
	功率 KW	0.37	0.37	0.37	0.37	0.75	0.75	0.75	1.5	
循环泵 Circulating pump	扬程 m	22	22	22	22	23	23	23	22	
	L/mm	680	800	940	940	1045	1045	1330	1330	
机器尺寸 Machine size	W/mm	420	480	555	555	555	555	725	725	
	H/mm	720	850	1060	1060	1160	1160	1330	1330	
	机组重量 Unit weight	KG	60	90	130	140	170	210	270	350

参数Parameters	型号Model	MK-12A	MK-15A	MK-20A	MK-25A	MK-30A	MK-40A	MK-50A	MK-60A	
制冷量 Cooling capacity	KW/hr	50HZ	33.79	44.15	59.08	71.72	87.20	113.58	135.49	181.68
		60HZ	39.53	51.65	69.12	83.91	102.02	132.89	158.52	208.02
	Kcal	50HZ	29059	37965	50805	61683	74992	97675	116521	156249
		60HZ	33999	44419	59442	72169	87741	114280	136330	187499
温控范围 Temperature range		5℃-常温 (0℃以下可定制) 5℃-Room temperature (Below 0℃ can be customized)								
电源 Power supply		3N-380V/415V 50HZ/60HZ								
总功率 Total power	KW	11.4	13.7	18.8	22.7	28.5	37.1	46.2	55.2	
压缩机 Compressor	类型 Type	全封闭式螺旋式或活塞式 Hermetic scroll type or piston								
	功率 KW	9	11	15	18.75	22	30	37.5	45	
风机 Blower	风量 m³/h	12000	15000	20000	25000	30000	40000	50000	60000	
	功率 KW	0.9	1.2	1.6	1.8	2.5	3.1	4.7	4.7	
冷凝器 Condensator	形式 Form	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin								
蒸发器 Evaporator	水流量 m³/h	5.81	7.60	10.16	12.34	15.20	19.53	23.30	30.52	
	水箱容量 m³	6.80	8.89	11.89	14.44	17.55	22.85	29.27	36.63	
	进出水管径 G	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"	G3"	G3"	
	功率 KW	1.5	1.5	2.2	2.2	4	4	4	5.5	
循环泵 Circulating pump	扬程 m	22	22	22	22	25	25	25	26	
	L/mm	1550	1550	1760	1970	1970	1900	2400	2400	
机器尺寸 Machine size	W/mm	750	750	860	900	1450	1450	1450	1450	
	H/mm	1460	1460	1560	1700	1700	1700	1700	1700	
	机组重量 Unit weight	KG	370	480	590	790	880	1000	1280	1420

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

Remarks: 1, table cooling quantity calibration conditions: frozen water intake temperature of 12 °C, outlet temperature of 7 °C, evaporation temperature of 2 °C, dry ball of 35 °C, wet ball of 24 °C; 2, when the external ambient temperature is less than 2 °C or is not used for a long time, water should be discharged from the machine to prevent the expansion of copper pipes; 3, air-cooled units must be installed in well-ventilated places, (such as outdoor, roof) while ensuring the unimpeded passage system; 4, specifications will be changed due to product improvements, without prior notice.

功能特点 Special Features

MK系列工业冷水机可提供5-30°C出水温度。特殊低温型可提供低至-25°C的冰水(温差不超过±1°C)。水冷式工业冷水机,采用壳管式冷凝器,阻力小,散热快,使用寿命长,润滑油回油通畅。制冷量从2528-170383Kcal/h(压缩机功率从1-60HP),可广泛应用于各个行业,例如塑胶中的注塑,吸塑,冷水机可以精确的控制塑胶成型模具温度以缩短成型周期,加速产品定型,使产品脱模快、不变形、光洁度好,大大提高了合格率;食品加工行业:包装好的食品快速冷却,巧克力生产线快速降温定型;制革、纺织工业:通过循环冷水来控制辊筒温度,提高生产效率;制药行业:用冷水机控制反应釜、搅拌罐的温度,达到给物料降温的目的。另外也适用于电镀业,化工业、漂染业等其他行业。



MK brand series industrial water chillers can provide 5-30 degrees. Ice water of special low temperature type is lower than - 25 C (temperature difference does not exceed ±1 C). Air-cooled water chiller, with refrigeration capacity of 2528-170383 Kcal/h (compressor power from 0.5-60HP), can be widely used in various industries, such as plastic injection, plastic absorption, water chiller can accurately control the temperature of plastic moulding die to shorten the moulding cycle, accelerate product shaping, so that the product neither deforms nor shrinks, but also can improve the surface cleanliness and enhance the perspective. Cooling CNC machine tools, coordinate boring machines, grinders, processing centers, modular machine tools and various precision machine tools spindle lubrication and hydraulic transmission medium cooling, can accurately control oil temperature, effectively reduce the thermal deformation of machine tools, improve the processing accuracy of machine tools, and also suitable for electroplating industry, food industry bleaching and dyeing industry and other industries.

Specification Table/规格参数表									
水冷式工业冷水机 Water-cooled Industrial Chiller									
参数Parameters		型号Model	MK-03W	MK-04W	MK-05W	MK-06W	MK-08W	MK-10W	MK-12W
制冷量 Cooling capacity	KW/hr	50HZ	9.59	12.43	15.91	19.18	24.85	31.83	38.37
		60HZ	11.22	14.54	18.32	22.45	29.08	37.24	44.89
	Kcal	50HZ	8251	10682	13690	16503	21370	27370	32994
		60HZ	9654	12498	16018	19308	25009	32023	38603
温控范围 Temperature range		5°C-常温 (0°C以下可定制) 5°C-Room temperature(Below 0°C can be customizsd)							
电源 Power supply		3N-380V/415V 50HZ/60HZ							
总功率 Total power		KW	2.575	3.375	4.5	5.25	6.75	9	10.5
压缩机 Compressor	类型 Type		全封闭式螺旋式或活塞式 Hermetic scroll type or piston						
	功率 KW		2.2	3	3.75	4.5	6	7.5	9
冷凝器 condensator	形式 Form		高效铜管套波纹管翅片 Efficient brass sets corrugated aluminum fin						
	水流量m³/h		2.06	2.67	3.42	4.13	5.34	6.85	8.24
	进/出水管径 G		G3/4"	G3/4"	G1"	G1"	G1-1/2"	G2"	G2"
	水箱容量m³		0.05	0.05	0.06	0.06	0.15	0.15	0.15
蒸发器 Evaporator	水流量m³/h		1.65	2.14	2.75	3.30	4.27	5.47	6.59
	水箱容量m³		0.05	0.05	0.06	0.06	0.15	0.15	0.15
循环泵 Circulating pump	功率 KW		0.375	0.375	0.75	0.75	0.75	1.5	1.5
	扬程 m		22	22	23	23	23	21.5	21.5
机器尺寸 Machine size	L/mm		850	850	850	1080	1200	1200	1200
	W/mm		480	480	480	550	610	610	610
	H/mm		980	980	980	1000	1260	1260	1260
机组重量 Unit weight		KG	120	140	150	200	210	290	310

参数Parameters		型号Model	MK-15W	MK-20W	MK-25W	MK-30W	MK-40W	MK-50W	MK-60W
制冷量 Cooling capacity	KW/hr	50HZ	50.14	67.14	81.53	99.19	129.06	153.91	198.12
		60HZ	58.66	78.56	85.39	116.05	151.00	180.07	237.75
	Kcal	50HZ	43120	57748	70120	85303	110984	132359	170383
		60HZ	50451	67565	82040	99805	129851	154860	204460
温控范围 Temperature range		5°C-常温 (0°C以下可定制) 5°C-Room temperature(Below 0°C can be customizsd)							
电源 Power supply		3N-380V/415V 50HZ/60HZ							
总功率 Total power		KW	12.5	17.2	20.95	26	34	41.5	50.5
压缩机 Compressor	类型 Type		全封闭式螺旋式或活塞式 Hermetic scroll type or piston						
	功率 KW		11	15	18.75	22	30	37.5	45
冷凝器 condensator	形式 Form		高效铜管套波纹管翅片 Efficient brass sets corrugated aluminum fin						
	水流量m³/h		10.78	14.44	17.54	21.32	27.74	33.09	41.60
	进/出水管径 G		G2"	G2"	G2-1/2"	G2-1/2"	G2-1/2"	G3"	G3"
	水箱容量m³		0.29	0.30	0.38	0.38	0.56	0.56	0.61
蒸发器 Evaporator	水流量 m³/h		8.62	11.55	14.03	17.06	22.19	26.48	33.28
	进/出水管径 G		G2"	G2"	G2-1/2"	G2-1/2"	G2-1/2"	G3"	G3"
循环泵 Circulating pump	功率 KW		1.5	2.2	2.2	4	4	4	5.5
	扬程 m		22	22	22	25	25	25.0	26.0
机器尺寸 Machine size	L/mm		1460	1750	1750	1750	2200	2200	2280
	W/mm		700	760	760	760	920	920	1000
	H/mm		1400	1500	1500	1500	1600	1600	1700
机组重量 Unit weight		KG	400	440	690	760	850	1000	1190

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

Remarks: 1. The cooling capacity calibration condition in the table: the temperature of the frozen water intake is 12 °C. The outlet temperature is 7 °C, the evaporation temperature is 2 °C, and the condensation temperature is 40 °C. When the external ambient temperature is less than 2 °C or when it is not used for a long time, water should be discharged from the machine to prevent copper tube frostbite. 3. the specification performance will be due to changes in the product improvement, without notice.

功能特点 Special Features



◆风冷式螺杆冷水机组是以空气为冷热源，以水为供冷热介质，作为冷热源兼用型的一体化温控设备。机组以其高效、低噪音、结构合理、操作简单、运行安全、安装维护方便等优点，而广泛应用于宾馆、商场、办公楼、展览馆、机场、体育馆等公共设施，并能满足电子、制药、生物、轻纺、化工、冶金、电力、机械等行业的控温系统的不同使用要求。

◆机组设计与制造严格按照国家行业标准，精选世界名牌压缩机、风机、冷媒控制元件。通过合理的系统匹配设计，使机组能够在-10℃以上气温条件下有效运行换热，产品适用于水资源缺乏区域，对冬季气温相对较低且无锅炉或其他供热条件的地区尤为适用。

◆机组采用高效换热器与先进、特殊的外形结构设计及系统。机组可直接安装于屋顶或室外其他通风条件好的地方，无需另设机房，可节省建筑空间。保护齐全，机组均有温度保护开关、过载继电器、高低压安全开关、三相保护器、防冻开关及延时启动等保护装置，确保主机安全、可靠运行。外形精巧、美观，机组采用“W”型盘管设计，空间利用率高，机组外形尺寸小，能适应户外恶劣气候条件，确保机组在使用寿命周期内具有良好的运行效果。

◆The cold screw unit is an integrated temperature control equipment with air as the cold and heat source, water as the cooling and heat medium, and both cold and heat sources. The unit is widely used in hotels, shopping malls, office buildings, exhibition halls, airports, gymnasiums and other public facilities for its advantages of high efficiency, low noise, reasonable structure, simple operation, safe operation and convenient installation and maintenance. It can also meet the different requirements of temperature control systems in electronics, pharmaceuticals, biology, light textile, chemical industry, metallurgy, electric power, machinery and other industries.

◆Unit design and manufacture strictly in accordance with national industry standards, select world famous compressor, fan, refrigerant control components. Through reasonable and system matching design, the unit can effectively operate heat transfer at temperatures above - 10 C. The product is suitable for water shortage areas, especially for areas with relatively low temperature in winter and without boilers or other heating conditions.

◆The unit adopts high efficiency heat exchanger and advanced and special shape structure design and system. The unit can be directly installed on the roof or other places with good ventilation conditions outdoors, without the need for a separate machine room, which can save building space. Full protection, the unit has temperature protection switch, overload relay, high and low voltage safety switch, three-phase protector anti-freeze switch and delay start protection devices, to ensure the safe and reliable operation of the main engine. The shape is exquisite and beautiful. The unit adopts "W" coil design, which has high space utilization rate and unit size to adapt to outdoor harsh weather conditions and ensure that the unit has good operation effect in its service life cycle.

Specification Table/规格参数表

风冷式螺杆机组 Air-cooled Screw unit

参数Parameters	型号Model	MK-80AS	MK-110AS	MK-140AS	MK-150AS	MK-180AS	MK-200AS	MK-240AS
制冷量 (2/50℃) Cooling capacity	X1000Kcal	68.8	94.6	120.4	129	154.8	172	206.4
	KW/hr	80	110	140	150	180	200	240
温控范围 Temperature range	5℃-25℃ (0℃以下可定制) 5℃-25℃(Below 0℃ can be customized)							
电源 Power supply	3N-380V/415V 50HZ/60HZ							
额定电流 Rated current	A	59.9	79.7	93.6	108.6	129.1	142.8	158.0
总功率 Total power	KW	32.4	43.1	50.6	58.7	69.8	77.2	85.4
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw						
	功率 KW	27.5	36.5	44	51	61	67	75
	能量调节	0-33%-66%-100%				0-25%-50%-75%-100%		
冷凝器 Condenser	形式	高效铜管套波纹铝翅片 Efficient brass sets corrugated aluminum fin						
风机 Fan	风量 M ³ /h	30000	40000	50000	60000	72000	76000	85000
	数量	500×6	550×6	550×6	660×6	630×6	600×8	630×8
	功率 KW	2.7	3.6	3.6	4.7	4.8	6.2	6.4
蒸发器 Evaporator	形式	壳管式						
	冷水量 M ³ /h	13.8	18.9	24.1	25.8	31.0	34.4	41.3
	进出水管径 G	G2.5"	G2.5"	G2.5"	G2.5"	G3"	G3"	G3"
循环泵 Circulating pump	功率 KW	2.2	3.0	3.0	3.0	4.0	4.0	4.0
保护装置	相序、高低压、过载、防冻、流量、开机延时、排气温度、电机绕组过热保护 Phase, High Voltage, Overload, Antifreeze, Flow, Boot Delay, Exhaust Temperature, Motor winding thermal Protection							
机器尺寸 Machine size	L/mm	2200	2200	2500	2500	2500	3350	3350
	W/mm	1360	1360	1600	1600	1600	1700	1700
	H/mm	1910	1910	1980	1980	1980	2050	2050
机组重量 Unit weight	KG	1100	1200	1300	1400	1550	1800	2100
运行重量 Unit Weight	KG	1360	1470	1590	1700	1850	2200	2500

参数Parameters	型号Model	MK-270AS	MK-330AS	MK-410AS	MK-490AS	MK-590AS	MK-650AS	MK-770AS
制冷量 (2/50℃) Cooling capacity	X1000Kcal	232.2	283.8	352.6	421	507.4	559	619.2
	KW/hr	270	330	410	490	590	650	770
温控范围 Temperature range	5℃-25℃ (0℃以下可定制) 5℃-25℃(Below 0℃ can be customized)							
电源 Power supply	3N-380V/415V 50HZ/60HZ							
额定电流 Rated current	A	183.0	221.8	274.2	320.1	378.1	417.0	494.3
总功率 Total power	KW	98.9	119.9	148.2	173.0	204.4	225.4	267.2
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw						
	功率 KW	87.0	105.0	129	150	179	200	237
	能量调节	0-25%-50%-75%-100%						
冷凝器 Condenser	形式	高效铜管套波纹铝翅片 Efficient brass sets corrugated aluminum fin						
风机 Fan	风量 M ³ /h	98000	120000	145000	170000	200000	223000	270000
	数量	630×8	600×2	600×15	630×15	630×18	630×18	630×24
	功率 KW	6.4	9.4	11.7	12.0	14.4	14.4	19.2
蒸发器 Evaporator	形式	壳管式						
	冷水量 M ³ /h	46.5	56.8	70.6	84.3	101.5	111.8	123.9
	进出水管径 G	G3"	G4"	G4"	G4"	G4"	G4"	G4"
循环泵 Circulating pump	功率 KW	5.5	5.5	7.5	11.0	11.0	11.0	11.0
保护装置	相序、高低压、过载、防冻、流量、开机延时、排气温度、电机绕组过热保护 Phase, High Voltage, Overload, Antifreeze, Flow, Boot Delay, Exhaust Temperature, Motor winding thermal Protection							
机器尺寸 Machine size	L/mm	3350	4760	4300	4300	4950	4950	6550
	W/mm	1700	1700	2200	2200	2200	2200	2200
	H/mm	2050	2100	2200	2200	2300	2300	2300
机组重量 Unit weight	KG	2350	2600	2850	3400	3850	4000	5000
运行重量 Unit Weight	KG	2780	3050	3600	3900	4450	4600	5800

备注：1、表格制冷量标定工况：冷冻水进水温度为12℃，出水温度为7℃，蒸发温度为2℃，干球35℃，湿球24℃；2、当外界环境温度低于2℃或长期不使用时，应排净机器内积水，以防铜管膨胀；3、风冷机组必须安装在通风良好的地方，（如室外，楼顶）同时保证风道系统畅通无阻；4、规格性能会因产品改良有所改动，恕不另行通知。
Remarks: 1, table cooling quantity calibration conditions: frozen water intake temperature of 12 °C, outlet temperature of 7 °C, evaporation temperature of 2 °C, dry ball of 35 °C, wet ball of 24 °C; 2, when the external ambient temperature is less than 2 °C or is not used for a long time, water should be discharged from the machine to prevent the expansion of copper pipes; 3, air-cooled units must be installed in well-ventilated places, (such as outdoor, roof) while ensuring the unimpeded passage system; 4, specifications will be changed due to product improvements, without prior notice.

功能特点 Special Features



◆最高效的半封闭式压缩机的心脏-进口优质螺杆压缩机，其5:6超高效螺旋转子压缩机，比一般压缩机能效高20%-30%，运行可靠、效率高、维护容易，精确的能量控制，应用范围广。

- 1、最新非对称转子齿形双螺杆；
- 2、四段或无段式控制系统；
- 3、内建压差式供油润滑系统；
- 4、低震动、低噪音。

◆微机准确控制温度，机组微电脑控制器采用超大屏幕触摸式液晶显示，具有良好的全中文人机对话界面实现全自动控制，液晶显示屏即时显示机器工作状态，精确监控机组运行在最佳状态，其接触面板密封好，防水，防尘，防腐蚀，按键寿命长。

◆分级与无极能量控制，用于一般的制冷、空调系统，装备有100%、75%、50%、25%分级能量控制系统，此能量控制确保机组在部分负荷时发挥最大节能效果，可按用户要求精确控制水温，所有机型均可装配无级能量控制。

◆运行效率高，换热器采用高效内螺纹紫铜管，外加高效的螺杆式压缩机，保证了机组的高效率运行。

◆可靠的保护和辅助部件：冷水机组具有下列部件以防止任何运转故障，压缩机保护计时器、过电流继电器、压缩机电机温感器、视液镜、油加热器、压缩机逆向保护继电器、排气高温保护、安全阀、易溶塞。

◆The heart-imported high-quality screw compressor of the most efficient semi-closed compressor unit, whose 5:6 super-high efficiency screw rotor compressor is 20%-30% more efficient than the general compressor, has reliable operation, high efficiency, easy maintenance, accurate energy control and wide application range. 1. Latest asymmetrical rotor tooth twin screw; 2, four-stage or non-segment control system; 3, built-in differential pressure oil supply lubrication system; 4, low vibration and noise.

◆Microcomputer controls temperature accurately. Microcomputer controller of the unit adopts touch LCD display with super large screen. It has a good Chinese man-machine dialogue interface to realize control function. LCD displays the working condition of the machine instantly, and accurately monitors the operation of the unit in the optimum state. Its contact panel is well sealed, waterproof, dust-proof, corrosion-proof and has a long key life.

◆Classification and infinite energy control is used in general refrigeration and air conditioning systems. It is equipped with 100%, 75%, 50% and 25% classified energy control system. This energy control ensures maximum energy-saving effect for units and partial loads. However, if water temperature needs to be accurately controlled, infinite energy control can be assembled for all models according to user's requirements. 4. High efficiency of operation. The heat exchanger adopts Kobe internal threaded high efficiency pipe and high efficiency screw compressor, which ensures the high efficiency of operation of the unit, the most reliable protection and auxiliary components. The chiller has the following components to prevent any operation failure; the compressor protection timer, over-current relay, compressor motor temperature sensor, visual field mirror, oil heater, compressor. Machine reverse protection relay, exhaust high temperature protection, safety valve, soluble plug.

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

参数Parameters	型号Model	MK-510WS	MK-550WS	MK-620WS	MK-710WS	MK-790WS	MK-830WS	MK-930WS	MK-1020WS	MK-1130WS	MK-1270WS	MK-1530WS
制冷量(2/40°C) Cooling capacity	X1000 Kcal	484	473.0	533.2	611	679.4	713.8	800	877.2	971.8	1101.0	1316.0
	KW/hr	510	550	620	710	790	830	930	1020	1130	1270	1530
温控范围 Temperature range	5°C-常温 (0°C以下可定制) 5°C-room temperature(Below 0°C can be customizsd)											
电源 Power supply	3N-380V/415 50HZ/60HZ											
压缩机 Compressor	形式	半封闭螺杆式 Semi-hermetic screw										
	功率 KW	108	118	130	150	167	175	200	225	250	281	235
	电流 A	182	198	218	253	280	295	335	390	432	480	553
	能量调节	0-25%-50%-75%-100%										
冷凝器 condenser	形式	壳管式 Shell and tube										
	水量 M ³ /h	113.4	123.9	136.5	157.5	175.4	183.8	210.0	263.3	262.5	296.0	341.3
	进出水管径 G	G4"	G5"	G5"	G5"	G6"	G6"	G6"	G8"	G8"	G8"	G8"
蒸发器 Evaporator	形式	壳管式 Shell and tube										
	水量 M ³ /h	86.4	95.0	104.0	120	133.6	140.0	160.0	180.0	200.0	225.0	260.0
	进出水管径 G	G4"	G5"	G5"	G5"	G6"	G6"	G6"	G8"	G8"	G8"	G8"
机器尺寸 Machine size	A/mm	3000	3000	3600	3600	3600	3600	3650	3650	3700	3700	4200
	B/mm	1500	1500	1500	1500	1500	1500	1600	1650	1750	1750	1750
	C/mm	1550	1550	1650	1650	1700	1700	1700	1700	1750	1800	1800
机组重量 Unit weight	KG	2490	2580	3050	3200	3360	3450	3780	4060	4330	4600	4820
运行重量 Unit Weight	KG	3200	3300	3800	4000	4200	4320	3700	5000	5400	5700	6000

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

Remarks: 1. The heat calibration condition in the table: the temperature of circulating oil in and out is 175 °C, and the oil output temperature is 180 °C; 2, when the external ambient temperature is less than 2 °C or is not used for a long time, water should be discharged from the machine to prevent copper tube frostbite; 3, specifications will change due to product improvement, without notice.

功能特点

Special Features

- ◆采用进口品牌压缩机，低温性能卓越，可靠耐用，制冷效率高，配备高精度微电脑控制器，全自动运行，无需专人值守。
- ◆传热介质可以是乙二醇、丙二醇防冻液或盐水，采用特殊材料和工艺，杜绝蒸发器腐蚀和氧化现象，延长设备的使用周期。
- ◆机组结构紧凑，设计科学美观，全烤漆防锈防腐，各项保护功能齐全：
 - 1.缺相、逆相保护
 - 2.压缩机过载保护
 - 3.高低压力保护
 - 4.缺水自动报警
 - 5.温度过低、防结冰保护
 - 6.水流不足保护
- ◆根据客户使用不同，超低温机可以做到-40℃出水，特殊超低温机可以达到-70℃，采用低温联动节流技术，低温性能超乎想象。
- ◆机组设计：全智能控制，24小时不停机运行。



- ◆Imported brand compressor, excellent low temperature performance, reliable and durable, high refrigeration efficiency, equipped with high-precision microcomputer controller, fully automatic operation, no need for dedicated personnel.
- ◆The heat transfer medium can be ethylene glycol, propanediol antifreeze or salt water. Special materials and processes are used to eliminate evaporator corrosion and oxidation and extend the service cycle of the equipment.
- ◆The unit has a compact structure, a scientific and beautiful design, a full-baked paint anti-rust and anti-corrosion, and various protection functions are complete: phase deficiency, phase reversal protection; Compressor overload protection; High and low pressure protection; Automatic warning of water shortage; Low temperature, anti-icing protection; Water flow is not protected.
- ◆According to the use of different customers, ultra-low temperature machines can produce water at -40 ° C, and special ultra-low temperature machines can reach -70 ° C. Using low-temperature linkage technology, the low-temperature performance is beyond imagination.
- ◆Design: Full intelligent control, 24 hours no downtime operation.

Specification Table/规格参数表

风冷式低温冷水机 /Air cooled cold water cooler

型号/出水温度	MK-3A-LT	MK-4A-LT	MK-5A-LT	MK-8A-LT	MK-10A-LT	MK-15A-LT	MK-20A-LT	MK-25A-LT	MK-30A-LT	MK-40A-LT	
制冷量 KW (低温机组)	0	6.1	8.3	10.6	17	20.8	27.3	43.2	52.5	64.8	86
	-5	5.05	6.95	8.55	13.9	17.2	22.1	36.3	40.6	54.5	70.2
	-10	4.25	5.7	7.2	11.4	14.25	17.6	28.6	31.8	43.2	57.9
	-15	3.5	4.65	5.9	9.2	10.8	14.3	22.2	24.4	34.3	45.2
制冷量 KW (超低温机组)	-20	4.64	5.89	7.03	8.39	10.28	16.70	19.88	24.9	29.3	32.8
	-25	3.59	4.54	5.42	6.43	7.76	12.74	15.32	19.02	22.6	25.2
	-30	2.71	3.42	4.09	4.8	5.68	9.41	11.47	14.09	16.91	18.83
	-35	1.99	2.5	2.99	3.47	3.99	6.62	8.26	10	12.18	13.46
-40	1.41	1.76	2.1	2.39	2.62	4.33	5.62	6.65	8.27	8.99	
冷却风量 Air Flow	M ³ /h	3400	4500	5600	8800	11000	16000	21000	26000	32000	43000
进出口管径mm In/Outpipesize		3/4"	3/4"	1"	1-1/4"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"
冷冻水流量M ³ /H Cold water volume		1.5	2	2.5	4	5	7.5	10	12.5	15	21.2
外形尺寸mm Dimension	长L	1070	1070	1165	1370	1540	1780	2030	2580	2580	2030
	宽W	600	600	680	710	780	830	910	910	910	1800
	高H	1370	1370	1540	1590	1690	1750	1925	2020	2020	2000
重量kg Weight		170	250	270	370	520	790	880	1100	1280	1420

水冷式低温冷水机 /Water cooled cold water cooler

型号/出水温度	MK-3W-LT	MK-4W-LT	MK-5W-LT	MK-8W-LT	MK-10W-LT	MK-15W-LT	MK-20W-LT	MK-25W-LT	MK-30W-LT	MK-40W-LT	
制冷量 KW (低温机组)	0	6.6	8.95	11.3	17.9	22.5	29	46.5	59.4	70.4	93.8
	-5	5.5	7.45	9.4	14.9	18.8	24.31	39.6	48.29	57.2	76.2
	-10	4.55	6.15	7.75	12.32	15.15	20.2	31.46	38.94	47.8	63.2
	-15	3.7	5.05	6.35	10.1	12.7	16.5	25.9	30.25	35.31	51.5
制冷量 KW (超低温机组)	-20	5.14	6.52	7.79	9.28	11.5	18.6	22	25.9	30.9	36.4
	-25	3.99	5.06	6.03	6.99	8.76	14.3	17.08	20.2	24.2	28.2
	-30	3.03	3.83	4.58	5.08	6.48	10.68	12.89	15.42	18.46	21.2
	-35	2.25	2.83	3.37	3.53	4.61	7.65	9.39	11.43	13.62	15.41
-40	1.61	2.01	2.4	2.27	3.11	5.14	6.49	8.12	9.56	10.56	
电源 PowerSupply	Volt	3N-380V/415V-50HZ/60HZ									
制冷剂 Refrigerant	名称 Name	R22/R404a									
	控制方法 Controltype	外平衡式热力膨胀阀Expansion valve									
压缩机 Compressor	类型 Type	全封闭涡旋式 Fully closed vortex									
	功率kw Motor	2.25	3	3.75	5	3.75*2	5.625*2	7.5*2	9.375*2	7.5*3	7.5*4
冷却水量 Air Flow	M ³ /h	2.06	2.67	3.42	5.34	6.85	10.78	14.45	17.54	21.32	28.4
冷冻水进出口管径 mm In/Outpipesize		1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"
冷冻水流量 M ³ /h Cold water volume		1.5	2	2.5	4	5	7.5	10	12.5	15	21
外形尺寸mm Dimension	长L	950	950	950	1370	1370	1730	2080	2080	2080	2180
	宽W	570	570	570	690	690	800	800	830	830	880
	高H	1240	1240	1260	1310	1310	1360	1460	1460	1500	1500
重量kg Weight		150	170	270	350	520	590	790	880	980	1100

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

Remarks: 1. Calibration working conditions of table refrigeration capacity: the temperature difference of chilled water between inlet and outlet is 5 and the temperature of cooling water is 30 / 35 2. When the ambient temperature is lower than 2 or long-term non-use, water accumulated in the machine should be discharged to prevent expansion of copper pipe; 3. Specification performance will be changed due to product improvement without further notice.

功能特点 Special Features

- ◆采用进口品牌专用防爆压缩机，防爆型低噪音大流量水泵，特制防爆型电控箱，根据特殊区域和用途要求，防爆等级达Exib II BT4以上。
- ◆机组安装方便，清洗容易，移动灵活，全金属烤漆面框，防锈防振动处理，低噪音，高效换热材料，高能效比。
- ◆人性化操作界面，高技术含量，智能控制，灵活多变。
- ◆安全省心，满足特殊工况下绝佳的制冷表现。
- ◆全自动温控系统，各项安全保护功能齐全，24小时不停机运行设计。



- ◆Imported brand special explosion-proof compressor, explosion-proof low noise and large flow pump, special explosion-proof electronic control box, according to special regional and use requirements, explosion-proof grade up to Exib II BT4.
- ◆The unit is easy to install, clean, move flexibly, all-metal paint frame, anti-rust and anti-vibration treatment, low noise, high efficiency heat exchange material, high energy efficiency ratio.
- ◆Humanized operation interface, high-tech content, intelligent control, flexible and changeable, safe and worry-saving, to meet the excellent refrigeration performance under special conditions.
- ◆Fully automatic temperature control system, complete safety protection functions, 24-hour non-stop operation design.

Specification Table/规格参数表

防爆型冷水机/Explosion-proof chiller

参数 Parameter	型号 Model	MK-03A -EP	MK-05A -EP	MK-06A -EP	MK-08A -EP	MK-10A -EP	MK-12A -EP	MK-15A -EP	MK-20A -EP	MK-25A -EP	MK-30A -EP	MK-40A -EP
制冷量 cooling Capacity	KW	8.39	13.95	16.90	21.80	28.01	33.79	44.15	59.08	71.72	87.20	113.58
	50HZ/60HZ	9.82	16.32	19.77	25.51	32.78	39.53	51.65	69.12	83.91	102.02	132.89
	Kcal/h 50HZ/60HZ	7216	11990	14530	18748	24089	29059	37965	50805	61683	74992	97675
	8442	14028	17000	21935	28184	33999	44419	59442	72169	87741	11428	
电源 PowerSupply	Volt	3N-380V/415V-50HZ/60HZ										
制冷剂 Refrigerant	名称Name											
	充注量Fill kg	2.7	4.3	5	3.5x2	4.3x2	5x2	6.5x2	4.3x4	10.5x2	8x3	8x4
	控制方法 controltype	外平衡式热力膨胀阀With hermetic gyral or piston										
防爆压缩机 Compressor	类型Type											
	功率Motor KW	2.25	3.75	4.5	3x2	3.75x2	4.5x2	5.5x2	3.75x4	9.4x2	7.5x3	7.5x4
冷却风量 Air Flow	m ³ /h	3200	5300	6400	8500	10600	12600	15800	21000	26000	32000	42000
冷冻水 Freeze Water	水量Flow m ³ /h	1.44	2.4	2.91	3.75	4.82	5.81	7.6	10.16	12.34	15.1	19.53
	水箱Tank 升/L	30	40	40	60	80	80	100	200	200	250	400
	进出水管径 In/outpipesize	3/4"	1"	1"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"
防爆水泵 pump	功率Motor kw	0.37	0.75	0.75	1.5	1.5	1.5	1.5	2.2	2.2	3.75	3.75
	扬程Raise kpa	200	200	200	200	205	205	205	220	220	240	240
外形尺寸 Dimension	长Length mm	1070	1165	1165	1370	1540	1600	1780	2030	2580	2580	2030
	宽Width mm	600	680	680	710	780	820	830	910	910	910	1800
	高Height mm	1670	1840	1840	1890	1990	2070	2150	2225	2320	2320	2400
重量 Weight	kg	160	250	270	350	370	520	590	790	880	1100	1280

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

Remarks: 1. The heat calibration condition in the table: the temperature of circulating oil in and out is 175 °C, and the oil output temperature is 180 °C; 2, when the external ambient temperature is less than 2 °C or is not used for a long time, water should be discharged from the machine to prevent copper tube frostbite; 3, specifications will change due to product improvement, without notice.

功能特点 Special Features

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



MK brand series industrial Cold fan is a low temperature air-cooled machine specially designed for lead-free wave soldering and reflow soldering. It has the advantages of beautiful appearance, small size, excellent performance, reliable quality and reasonable price. Meike Brand air-cooled industrial air-cooled fan has two types: upper and lower air-cooled (specific outlet location can be determined according to user requirements and specific conditions of user use). The air handling capacity is 150-8000m³/h, the air pressure is 200-1200pa, the outlet temperature is -5 to +8 degrees C, and the wind speed can reach 32m/s, which basically meets the requirements of various types of machines.

Specification Table/规格参数表

工业冷风机 Industrial Chillers

参数Parameters	型号Model	MK-01AR	MK-02AR	MK-03AR	MK-04AR	MK-05AR	MK-06AR	MK-08AR	
制冷量 Cooling capacity	KW/hr	50HZ	2.94	5.67	8.39	10.90	13.95	16.90	21.80
		60HZ	3.44	6.63	9.82	12.75	16.32	19.77	25.50
温控范围 Temperature range	5℃-常温 (0℃以下可定制) 5℃-Room temperature (Below 0℃ can be customized)								
电源 Power supply	Voit	1N-220V 50HZ/60HZ			3N-380V/415 50HZ/60HZ				
制冷剂 Refrigerant	R	R22/R407c/R410A							
总输入功率 Total power	KW	0.94	1.73	2.57	3.48	4.31	5.11	7.65	
压缩机功率 Compressor power	KW	0.75	1.50	2.20	3.00	3.75	4.50	6.00	
冷风量 Cold wind	m ³ /h	180	280	370	510	800	1100	1560	
冷风压 Cold wind pressure	pa	125	340	340	520	520	700	780	
风机功率 Fan power	KW	0.045	0.09	0.09	0.20	0.20	0.25	0.75	
冷却风量 Colling air flow	m ³ /h	1000	2000	3000	4000	5000	6000	8000	
风机功率 Fan power	KW	0.145	0.14	0.28	0.28	0.36	0.36	0.90	
出风管径 Diameter wind	mm	Φ76	Φ90	Φ100	Φ100	Φ125	Φ125	Φ160	
机器尺寸 Machine size	L/mm	680	800	940	940	1045	1045	1330	
	W/mm	420	480	555	555	555	555	725	
	H/mm	720	850	1060	1060	1160	1160	1330	

参数Parameters	型号Model	MK-10AR	MK-12AR	MK-15AR	MK-20AR	MK-25AR	MK-30AR	MK-40AR	
制冷量 Cooling capacity	KW/hr	50HZ	28.01	33.79	44.15	59.08	71.71	87.20	113.58
		60HZ	32.78	39.53	51.65	69.12	83.91	102.00	132.89
温控范围 Temperature range	5℃-常温 (0℃以下可定制) 5℃-Room temperature (Below 0℃ can be customized)								
电源 Power supply	Voit	3N-380V/415 50HZ/60HZ							
制冷剂 Refrigerant	R	R22/R407c/R410A							
总输入功率 Total power	KW	9.90	11.40	13.70	18.80	22.59	5.11	7.65	
压缩机功率 Compressor power	KW	7.50	9.00	11.00	15.00	18.75	22.00	30.00	
冷风量 Cold wind	m ³ /h	2300	2750	3360	4100	4400	5400	6900	
冷风压 Cold wind pressure	pa	890	1000	1000	1000	1000	1000	1000	
风机功率 Fan power	KW	1.500	1.50	1.50	2.20	2.20	3.00	4.00	
冷却风量 Colling air flow	m ³ /h	10000	12000	15000	20000	25000	30000	40000	
风机功率 Fan power	KW	0.900	0.90	1.20	1.60	1.64	2.40	3.60	
出风管径 Diameter wind	mm	Φ159	Φ159	Φ159	Φ200	Φ200	Φ250	Φ300	
机器尺寸 Machine size	L/mm	1330	1550	1550	1760	1970	1970	2340	
	W/mm	725	750	750	860	900	900	1380	
	H/mm	1330	1460	1460	1560	1700	1700	1800	

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

Remarks: 1, table cooling quantity calibration conditions: frozen water intake temperature of 12 °C, outlet temperature of 7 °C, evaporation temperature of 2 °C, dry ball of 35 °C, wet ball of 24 °C; 2, when the external ambient temperature is less than 2 °C or is not used for a long time, water should be discharged from the machine to prevent the expansion of copper pipes; 3, air-cooled units must be installed in well-ventilated places, (such as outdoor, roof) while ensuring the unimpeded passage system; 4, specifications will be changed due to product improvements, without prior notice.

功能特点 Special Features

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



The company's withdrawal MK brand oil cooler series is suitable for cooling CNC machine tools, coordinate boring machines, grinders, processing centers, modular machine tools and various precision machine tools spindle lubricants and hydraulic oil cooling, can accurately control oil temperature, effectively reduce the thermal deformation of machine tools, provide processing accuracy of machine tools. Meike industrial oil cooler uses the principle of evaporation and heat absorption of refrigerant to carry out cooling work. The oil pump extracts oil from the oil tank of the machine tool to conduct heat exchange treatment in the refrigeration system. After cooling, the hydraulic oil is returned to the oil tank of the machine tool through the pipeline of the oil cooler, and the oil temperature of the whole oil is continuously lowered through the continuous circulation of the oil.

Specification Table/规格参数表										
工业冷油机 Industrial Cold oil machine										
参数Parameters	型号Model	MK-01AO	MK-02AO	MK-03AO	MK-04AO	MK-05AO	MK-06AO	MK-08AO	MK-10AO	
制冷量 Cooling capacity	KW/hr	50HZ	2.94	5.67	8.39	10.90	13.95	16.90	21.80	28.01
		60HZ	3.44	6.63	9.82	12.75	16.32	19.77	25.50	32.78
	Kcal	50HZ	2528	4872	7216	9347	11990	14560	18748	24089
		60HZ	2958	5701	8442	10698	14028	17000	21935	28184
温控范围 Temperature range	10°C-常温 (0°C以下可定制) 10°C-Room temperature(Below 0°C can be customized)									
电源 Power supply	1N-220V 50HZ/60HZ			3N-380V/415V 50HZ/60HZ						
总输入功率 Total power	KW	1.27	2.02	2.85	3.65	4.86	5.61	7.65	9.9	
压缩机功率 Compressor	类型	全封闭式螺旋式或活塞式 Hermetic scroll type or piston								
	KW	0.75	1.50	2.20	3.00	3.75	4.50	6.00	7.50	
风机风量 Fan flow	风量 M³/h	1000	2000	3000	4000	5000	6000	8000	10000	
冷凝器 condensator	形式 Form	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin								
蒸发器 Evaporator	油量 M³/h	0.59	1.14	1.68	2.19	2.81	3.41	4.39	5.64	
	油溶量 M³	0.025	0.036	0.045	0.045	0.056	0.056	0.12	0.15	
	进出油管径 G	G1/2"	G1/2"	G3/4"	G3/4"	G1"	G1"	G1-1/2"	G2"	
循环泵 Circulating pump	功率 KW	0.375	0.375	0.375	0.375	0.75	0.8	0.8	1.5	
	扬程 m	26	26	26	26	34	34	34	34	
机器尺寸 Machine size	L/mm	680	800	940	940	1045	1045	1330	1330	
	W/mm	420	480	555	555	555	555	725	725	
	H/mm	720	850	1060	1060	1160	1160	1330	1330	
机组重量 Unit weight	KG	60	90	130	140	170	210	270	350	

参数Parameters	型号Model	MK-12AO	MK-15AO	MK-20AO	MK-25AO	MK-30AO	MK-40AO	MK-50AO	MK-60AO	
制冷量 Cooling capacity	KW/hr	50HZ	33.79	44.15	59.08	71.72	87.20	113.58	135.49	181.68
		60HZ	39.53	51.65	69.12	83.91	102.02	132.89	158.52	218.02
	Kcal	50HZ	29059	37965	50805	61683	74992	97675	116521	156249
		60HZ	33999	44419	59442	72169	87741	114280	136330	187499
温控范围 Temperature range	10°C-常温 (0°C以下可定制) 10°C-Room temperature(Below 0°C can be customized)									
电源 Power supply	3N-380V/415V 50HZ/60HZ									
总功率 Total power	KW	11.70	13.70	18.76	22.55	27.80	37.60	45.10	55	
压缩机 Compressor	类型	全封闭式螺旋式或活塞式 Hermetic scroll type or piston								
	功率 KW	9.00	11.00	15.00	18.75	22.00	30.00	37.50	45.00	
风机 Fan	风量 M³/h	12000	15000	20000	25000	30000	40000	50000	60000	
冷凝器 condensator	形式	高效铜管套波纹型铝翅片 Efficient brass sets corrugated aluminum fin								
蒸发器 Evaporator	油量 M³/h	6.8	8.89	11.89	14.44	17.55	22.85	29.27	36.63	
	油溶量 M³/h	0.155	0.181	0.240	0.280	0.280	0.530	0.58	0.62	
	进出油管径 G	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"	G3"	G3"	
循环泵 Circulating pump	功率 KW	1.500	1.500	2.200	2.200	4.00	4.0	4.0	5.5	
	扬程 m	34	34	26	26	34	34	34	36	
机器尺寸 Machine size	L/mm	1550	1550	1760	1970	1970	1700	2400	2400	
	W/mm	750	750	860	900	900	1450	1450	1450	
	H/mm	1460	1460	1560	1700	1700	1700	1700	1700	
机组重量 Unit weight	KG	370	480	590	790	880	1000	1280	1420	

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

Remarks: 1, table cooling quantity calibration conditions: frozen water intake temperature of 12 °C, outlet temperature of 7 °C, evaporation temperature of 2 °C, dry ball of 35 °C, wet ball of 24 °C; 2, when the external ambient temperature is less than 2 °C or is not used for a long time, water should be discharged from the machine to prevent the expansion of copper pipes; 3, air-cooled units must be installed in well-ventilated places, (such as outdoor, roof) while ensuring the unimpeded passage system; 4, specifications will be changed due to product improvements, without prior notice.

功能特点 Special Features

高温模温机：模温机分为水式模温机和油式模温机。水温机以水作为媒介；油温机以导热油作为媒介。模温机用于塑胶成型、导光板、压铸、挤出、橡胶轮胎、滚轮、化工、反应釜、粘合、密炼等各行各业。特别是在镁合金、铝合金的制造中效果尤为突出。不平均或不适当的模具温度会导致铸件不稳定，在生产过程中顶出铸件变形，产生热压力、黏模、表面凹陷、内缩孔及热泡等缺陷。

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



High temperature die temperature machine: die temperature machine is divided into water die temperature machine and oil die temperature machine. Water temperature machines use water as a medium; The oil temperature machine uses heat conduction oil as a medium. The die temperature machine is used in all walks of life such as plastic molding, light guide board, die casting, extrusion, rubber tire, roller, chemical engineering, reaction kettle, bonding, and tanning. Especially in magnesium alloy, aluminum alloy manufacturing is particularly prominent. Uneven or inappropriate mold temperature can lead to unstable casting storage and deformation of castings during the production process, resulting in defects such as thermal pressure, mucous membranes, surface depressions, indentation and hot bubbles.

- ◆Explosion-proof device for pipeline
- ◆Back pumping function of oil pump
- ◆Temperature Display of Oil Return
- ◆Automatic exhaust function of boot-up
- ◆Thermal Power Switching Function

- ◆Timely cooling shutdown function
- ◆Isolated electrical control box to extend the service life of electrical appliances
- ◆RS485 communication function to realize automatic management (purchase)
- ◆Multi-point temperature control unit can be customized
- ◆Horsepower and heating power of oil pump can be set
- ◆Temperature Control Range: Intake Water Temperature 45-350 C
- ◆Stainless steel integrated pipeline, reduce pipe resistance and rust scale
- ◆Control mode: Imported microcomputers or (optional) PLC control
- ◆Perfect safety protection, failure display, maintenance without professional personnel

Specification Table/规格参数表

高温型模温机 High-temperature mold temperature machine

项目 Item	型号 Model	单位	水式高温高压型 Water high temperature and pressure type					油式高温高压型 Oil high temperature and pressure type				
			MK-9KWH	MK-18KWH	MK-24KWH	MK-36KWH	MK-48KWH	MK-9KOH	MK-18KOH	MK-24KOH	MK-36KOH	MK-48KOH
电源 Power Supply		Volt	3P-380V-50HZ									
传热媒体 Heating Medium			水 Water					油 Oil				
温度范围 emperature range		℃	40-120℃/40-180℃					40-250℃/40-350℃				
加热能力 Heating Capacity		KW	9	18	24	36	48	9	18	24	36	48
油泵 Pump	功率 power	KW	0.75	1.5	2.25	3	3.75	0.75	1.5	2.25	3	3.75
	压力 Pressure	Mpa	0.6-0.8					0.5-0.8				
	流量 flow	m³/h	1.5-3.3	2.1-4.3	5.5-7.8	7.5-10.2	11-18.8	1.5-3.3	2.1-4.3	5.5-7.8	7.5-10.2	11-18.8
冷却方式 Cooling Method			间接冷却 Indirect cooling									
配管直径 Pipe Diameter	进出管径	Inch	1"	1"	1"	1.5"	1.5"	1"	1"	1"	1.5"	1.5"
	冷却水配管	Inch	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
热媒贮量 Tank Volume		L	无					10	10	12	16	16
机械尺寸 Dimension		mm	800	900	900	1000	1000	880	1000	1000	1500	1600
		mm	600	650	650	650	650	580	600	600	800	800
		mm	900	1000	1000	1100	1100	1100	1400	1400	1500	1600
重量 Weight		KG	56	76	83	95	120	56	76	83	95	120

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

Remarks: 1. The heat calibration condition in the table: the temperature of circulating oil in and out is 175 °C, and the oil output temperature is 180 °C; 2, when the external ambient temperature is less than 2 °C or is not used for a long time, water should be discharged from the machine to prevent copper tube frostbite; 3, specifications will change due to product improvement, without notice.

功能特点

Special Features

冷热一体控温系统的典型应用

- ◆ 高压反应釜冷热源动态恒温控制、双层玻璃反应釜冷热源动态恒温控制、双层反应釜冷热源动态恒温控制
- ◆ 微通道反应器冷热源恒温控制、小型恒温控制系统、蒸饱系统控温、材料低温高温老化测试
- ◆ 组合化学冷源热源恒温控制、半导体设备冷却加热、真空室制冷加热恒温控制

冷热一体控温系统优点与功能

- ◆ 温度范围从-120°C至350°C，性能优越、高精度、智能型温度控制。
- ◆ 较高的制冷功率从0.5到1200kW，最高的生产稳定性和可重复性结果。
- ◆ 多功能报警系统和安全功能，采用板式换热器、管道式加热器提高加热和制冷速率。
- ◆ 7寸、10寸彩色TFT触摸屏图形显示，采用磁力驱动泵，再无轴封泄漏问题。
- ◆ 全密闭系统，延长导热液体寿命，非常宽的温度范围，无需更换液体介质。
- ◆ 超高温降温技术，可以从高温300度直接制冷降温。

采用全密闭管道式设计，采用高效板式热交换器，降低导热液需求量的同时，提高系统的热量利用率，达到快速升降温度。导热介质在一个密闭系统中，带有膨胀容器，膨胀容器中的导热介质不参与循环，无论是高温还是低温，膨胀槽温度为常温到60度，可以降低导热介质在运行中吸收水分和挥发的风险。

Typical Application of Integrated Thermal and Cooling Temperature Control System

- ◆ Dynamic Constant Temperature Control of High Pressure Reactor Cold and Heat Source, Dynamic Constant Temperature Control of Double-Layer Glass Reactor Cold and Heat Source and Dynamic Constant Temperature Control of Double-Layer Reactor Cold and Heat Source
- ◆ Microchannel Reactor Cold and Heat Source Constant Temperature Control, Small Constant Temperature Control System, Steaming and Saturating System Temperature Control, Material Low Temperature and High Temperature Aging Test
- ◆ Constant temperature control of heat source of combined chemical cold source, cooling and heating of semiconductor equipment and heating of vacuum asphyxiation refrigeration

Advantages and Functions of Cooling and Heating Integrated Temperature Control System

- ◆ Temperature range from -120 C to 350 C, excellent performance, high precision, intelligent temperature control.
- ◆ Higher refrigeration power ranges from 0.5 to 1200 kW, with the highest production stability and repeatability.
- ◆ Multifunctional alarm system and safety function. Plate heat exchanger and pipe heater are used to increase heating and cooling rate.
- ◆ 7-inch and 10-inch color TFT touch screen graphics display, using magnetic drive pump, no shaft seal leakage problem.
- ◆ Fully enclosed system, prolong the life of thermal conductive liquid, very wide temperature range, no need to replace the liquid medium.
- ◆ Ultra-high temperature cooling technology can be directly cooled from 300 degrees high temperature.

Fully closed pipeline design and high efficiency plate heat exchanger are adopted to reduce the demand for heat conduction fluid and improve the heat utilization rate of the system to achieve rapid temperature rise and fall. In a closed system, the thermal conductive medium has an expansion container. The thermal conductive medium in the expansion container does not participate in the cycle. Whether at high or low temperature, the temperature of the expansion tank is from room temperature to 60 degrees, which can reduce the risk of moisture absorption and volatilization of the thermal conductive medium in operation.



Specification Table/规格参数表

冷热一体控温系统 Cold and Hot Temperature Control System

参数	型号	MK-06HC	MK-10HC	MK-15HC	MK-20HC	MK-25HC	MK-35HC	MK-50HC
介质温度范围		-80°C ~ +250°C						
控制系统		前馈PID, 无模型自建树算法, PLC控制器						
温控模式选择		物料温度控制与设备出口温度控制模式 可自由选择						
温差控制		设备出口温度与反应物料温度的温差可控制、可设定						
程序编辑		可编制10条程序, 每条程序可编制42段步骤						
通信协议		MODBUS RTU 协议 RS 485接口						
外接入温度反馈		PT100或4~20mA或通信给定 (默认PT100)						
温度反馈		设备导热介质 进口温度、出口温度、反应器物料温度 (外接温度传感器) 三点温度						
导热介质温控精度		±0.5°C						
反应物料温控精度		±1°C						
加热功率 kW		2.5	3.5	5.5	7.5	10	15	25
制冷量 kW AT	250°C	2.5	3.5	5.5	7.5	10	15	25
	250°C	2.5	3.5	5.5	7.5	10	15	25
	0°C	2.5	3.5	5.5	7.5	10	15	25
	-40°C	1.8	2.6	3.3	5.8	6.4	11	20
	-60°C	1	1.4	1.6	3	3.5	5.8	10
	-75°C	0.3	0.42	0.7	1.3	1.5	2.4	5
流量压力max L/min		20	35	50	50	110	110	150
压力 bar		2	2	2	2	2.5	2.5	2.5
循环泵		磁力循环泵						
压缩机		法国泰康活塞压缩机				德国比泽尔半封闭活塞压缩机		
膨胀阀		丹佛斯/艾默生热力膨胀阀+艾默生电子膨胀阀						
蒸发器		不锈钢板式换热器						
操作面板		7英寸彩色触摸屏, 温度曲线显示、记录						
安全防护		具有自我诊断功能; 冷冻机过载保护; 高压压力开关, 过载继电器、热保护装置等多种安全保障功能。						
密闭循环系统		整个系统为全密闭系统, 高温时不会有油雾、低温不吸收空气中水份, 系统在运行中不会因为高温使压力上升, 低温自动补充导热介质。						
制冷剂		R-404A/R23/R14混合制冷剂						
接口尺寸		G1/2	G3/4	G3/4	G1	G1	G1	DN32
标准流量m³/H		0.9	1.2	1.8	2.3	3.2	4.5	8
外形尺寸 CM		45*85*130	45*85*130	55*95*170	55*95*170	70*100*175	100*150*185	205*145*205
重量kg		240	285	345	500	600	950	1300
电源		6.5kW	10kW	13kW	19kW	25kW	37kW	50kW

功能特点 Special Features



- ◆MK系列冷却塔适用于空调冷却系统、冷冻系统、塑胶、电镀、化工、陶瓷以及农业科技苗圃等；
- ◆美科水塔采用优质PVC胶片。蜂巢式扇纹最大程度增强冷热交换能力，并可承受高达56°C水温，保证水塔散热效果能达到最佳水准，同时备有环保型及耐高温胶片供选用；
- ◆风扇：轴流式风扇。采用高级塑料或铝合金制造，每套风扇离厂前均经过专业人员严格定位及平衡测试；
- ◆所有金属主要配件：由原厂厚身钢材制造，经国际标准热渡浸锌防锈处理，同时也可提供不锈钢配件；
- ◆美科牌冷却水塔外壳：均为防酸抗碱浸蚀高级玻璃纤维强化材料，所有喉管及喷水设备采用高级塑料，不用加润滑油，保证耐用。所有美科牌水塔，如在正常运行使用下，可享有一年质保期，超过一年者更换零件，均有折扣优惠。

- ◆MK brand series cooling tower is suitable for air conditioning cooling system. Refrigeration systems, plastics, electroplating, chemical industry, ceramics and agricultural science and technology nurseries, etc.
- ◆Meike Water Tower is made of high quality PVC film. The nested fan pattern on the top of the tower greatly enhances the alternating ability of heat and cold, and can withstand up to 56 C. It ensures that the heat dissipation efficiency of the water drying tower reaches the best level. At the same time, green and high temperature resistant film is available for selection.
- ◆Fan: Axial flow fan. Made of high-grade plastic or aluminium alloy, each fan has been strictly positioned and balanced by professionals before leaving the factory.
- ◆Major metal fittings; Made of thick steel from the original factory and treated with zinc dipping and rust-proof by international standard. At the same time, stainless steel accessories can also be provided.
- ◆Meike Brand Water Tower Shell: All of them are acid-proof and alkali-resistant high-grade glass fiber reinforced materials. All throat pipes and water spraying equipment are made of high-grade plastics without lubricating oil to ensure durability. All Meike Brand water towers, if in normal operation and use, can enjoy the next year to protect useful, more than a year to replace parts, there are discounts.

Specification Table/规格参数表

冷却水塔 Cooling Tower

型号 Model		MK	8T	10T	15T	20T	25T	30T	40T	50T	60T	80T	100T	125T	150T	
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	0.55	0.75	0.75	1.50	1.50	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		
Piping	入水 Water Inlet	WI	40	40	50	50	80	80	80	80	100	100	125	125	150	
	出水 Water Inlet	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	15	20	20	20	20	
高度 Height	塔体 Tower	TH	1700	1830	1630	1915	2155	1905	2050	2120	2380	2475	2785	2970	2970	
	马达 Motor	MH	170	170	170	170	180	180	200	200	270	270	320	320	320	
	壳身 Casing	CH	940	1070	855	1140	1385	1130	1255	1255	1290	1455	1595	1780	1780	
	入风 Air inlet	AH	170	170	170	170	245	245	245	245	325	325	325	325	325	
	水盆 Water Basin	WH	420	420	435	435	345	350	350	420	455	455	545	545	545	
	入水 Water Inlet	IH	245	245	260	260	185	160	160	225	215	215	315	315	320	
	出水 Water Outlet	OH	155	155	145	145	135	115	115	115	130	130	170	170	190	
	基础 Foundation	FH	250	250	250	250	300	300	300	300	300	300	300	300	300	
直径 Dia	风扇 Exhaust Fan	ED	550	635	635	770	770	770	930	930	1180	1180	1450	1450	1450	
	水盆 Water Basin	WD	920	920	1165	1165	1385	1650	1650	1880	2100	2100	2900	2900	2900	
	基础 Foundation	FD	520	520	730	730	960	1180	1180	1370	1530	1530	2320	2320	2320	
	螺丝 Anchor Bolt	BD	Φ9'300'3支			Φ9'350'4支			11'350'4支			Φ11'350'6支				
尺寸 Dimension	基础 Foundation	FS	250	250	250	300	300	300	300	300	300	300	300	300	300	
	基础 Foundation Center	FC	---	---	---	---	---	---	---	---	---	---	Φ850	Φ850	Φ850	
	脚板 L Plate L	PL	140	140	150	150	140	140	140	180	200	200	210	210	210	
	脚板 W Plate W	PW	120	120	140	140	140	150	150	160	190	190	130	130	130	
	螺丝 Bolt Center	BC	450	450	635	635	680	835	835	970	1080	1080	1145	1145	1145	
	索结 Plate Center	SC	80	80	115	115	150	150	150	120	150	150	180	180	180	
材料 Material	索结 L Sochetl	SL	390	390	515	515	600	780	780	835	915	915	1430	1430	1430	
	带动方式 Typeofdire		直接 Direct													
	风扇 Exhaust Fan	EF01	塑料 Polycarbonate						玻璃钢/铝合金 F.R.P/AluminiumAlloy							
	马达 Motor	MT02	T.E.F.C.380V/3ph/50Hz 全封闭式马达													
	马达架 Motor Support	MS03	镀锌钢 Galvanized Steel													
	风扇钢 Fan Guard	FG04	镀锌钢 Galvanized Steel													
	壳身 Casing	CS05	玻璃钢 Fibreglass Reinforced Poyester													
	水盆 Water Basin	WB06	玻璃钢 Fibreglass Reinforced Poyester													
	洒水系统 SprinklerSvstem	SP08	塑料及塑料管 Polycarbonate & P.V.C.Pipc													
	拉力支 Tension Bar	TB09	---						---						镀锌钢 G.I.Steel	
	隔水袖 Eliminator	ET10	玻璃钢 Fibreglass Reinforced Polyerter													
	梯 Ladder	LD13	---						镀锌钢 G.I.Steel							
	喉管 Piping	PP14	塑料管 P.V.C.Pipe													
胶片架 In-Fillsupport	IS15	塑料及镀锌钢 Poly.&G.I.Seel														
胶片架 In-Fill	IF16	塑料片 P.V.C.Flim														



风冷热泵型冷水机组

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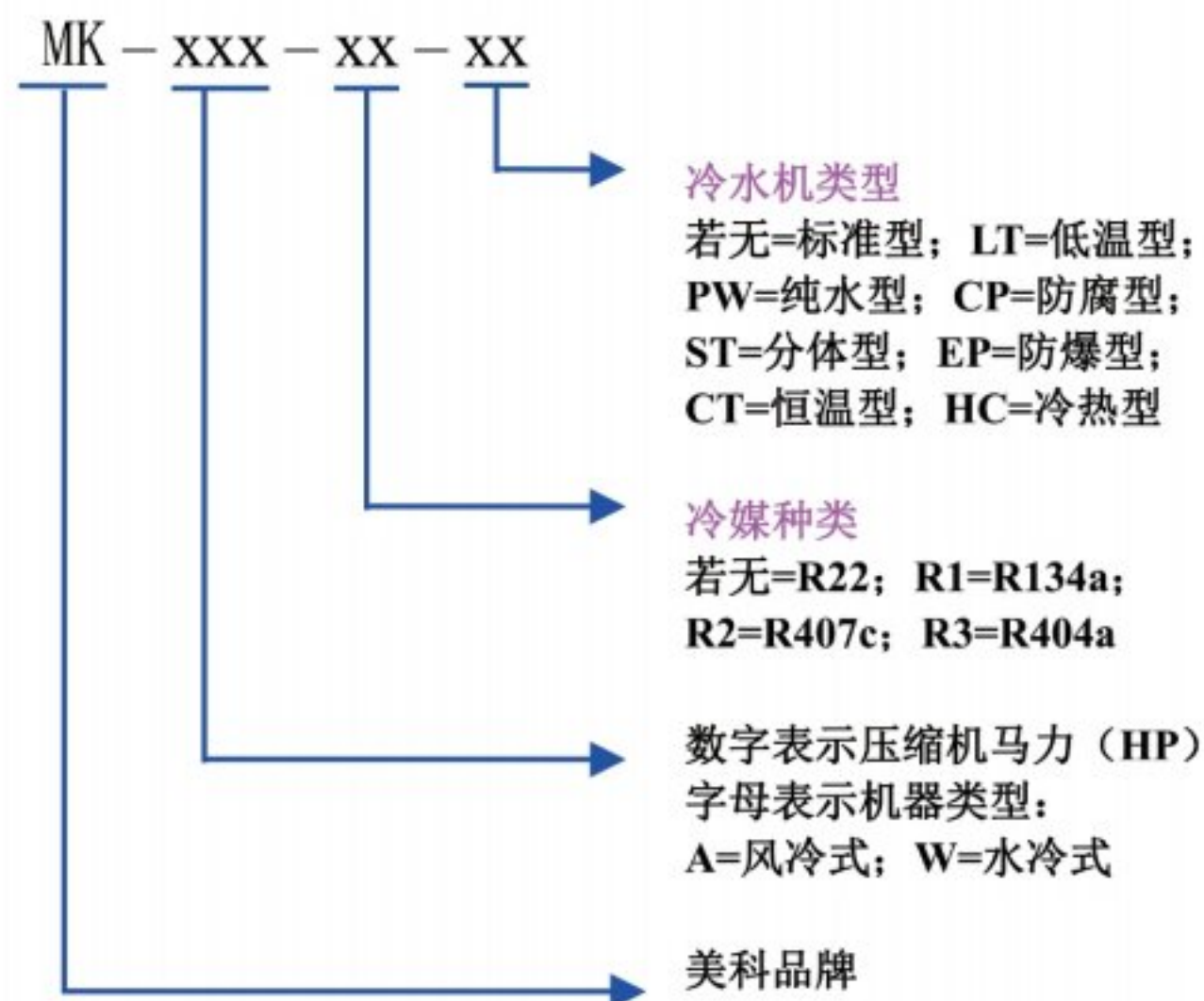
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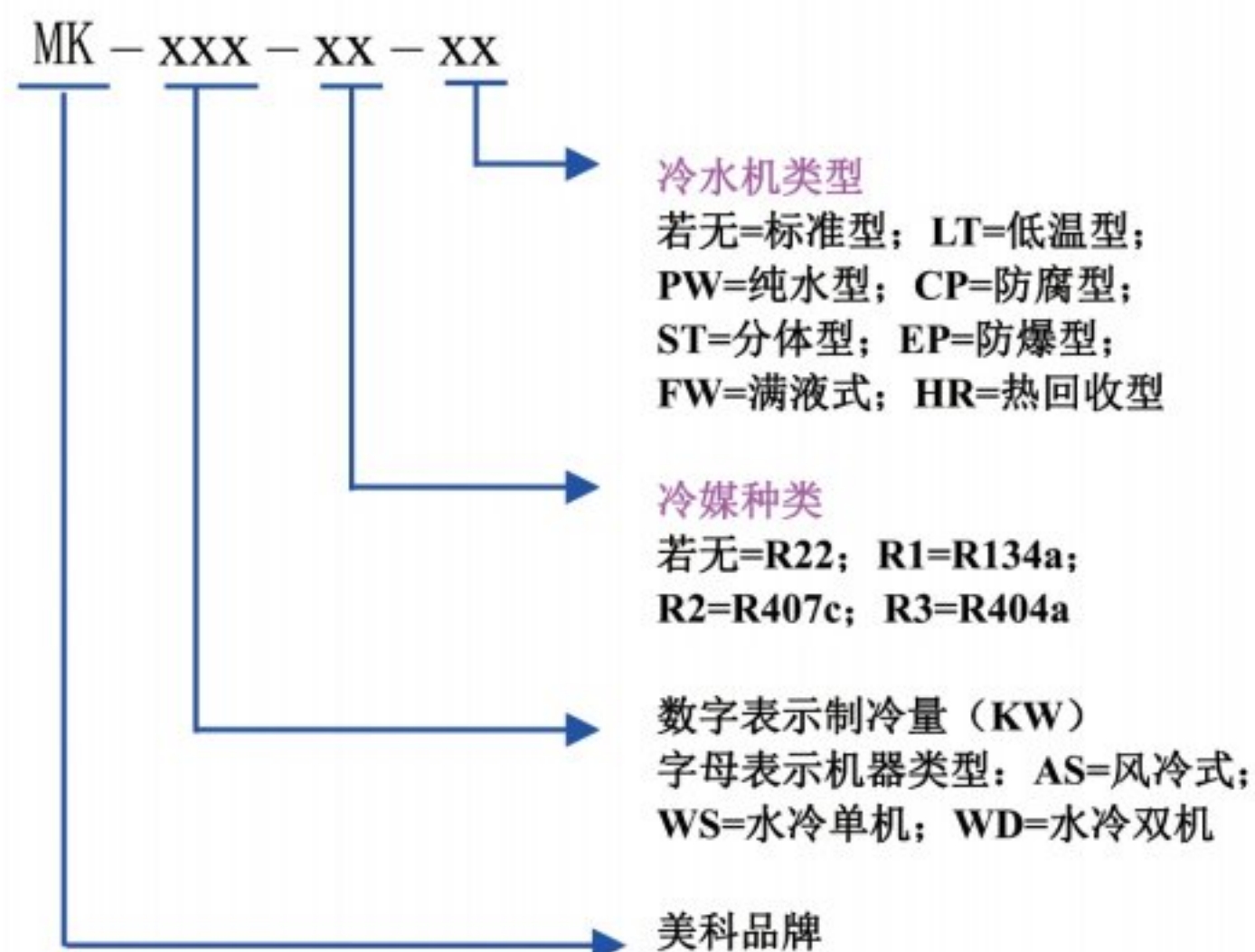
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箱式冷水机命名原则



螺杆式冷水机命名原则



- 1、整机调试出厂后免费保修12个月（人为破坏及不可抗拒力所造成的损害除外），在此期间，维修所产生的费用一律由我司承担，终身维护和保养。
- 2、机组在使用操作过程中出现问题后及时联系，公司承诺接到报修电话后半小时响应，如果是简单故障公司远程指导处理，客户解决不了的情况下，市区内客户4小时到达现场处理；省内客户在接到客户维修通知后12小时到达现场维修；国内客户在48小时内到达现场处理；特殊情况72小时内到达现场处理。
- 3、对我司出厂的每台机组，会定期做回访（每年至少两次），有专门的客服人员做质量和服务跟踪。
- 4、设备在正常的保修期满后需更换零配件，我司承诺一律以成本价提供。
- 5、免费提供售前、售后技术支持、设备的现场安装指导、设备的运行调试、操作人员培训及设备定期保养指导。
- 6、我司仓库配有大量的各类零部件，并在全国各大城市设有办事处，保证售后服务的畅通和高效，争分夺秒，为客户赢得时间，确保正常使用。
- 7、在保修期内，经查证若为用户原因于操作使用不当或自行拆解改装所造成之人为损坏，不在以上保修期范围内。

After-sales service commitment

1. Months guarantee free of charge after final acceptance. (Except for damage is caused due to force majeure and vandalism). In the interim, we hereby confirm to all of charges and longtime maintenance.
2. Coordinate with our company immediately after the machine set presented any problems in using processing. We promised that the company will call you at once after half an hour. If the machine falling in fault is simple, we will provide with remote service. Any action will not be taken in these circumstances, in the urban, the repairer will arrive at the scene within 4 hours, in the province, we will gather at the scene maintenance within 12 hours, in domestic, we will call at the scene within 48 hours.
3. Our company are produced every machine set, we will visit back regularly (twice a year at least), CAS will follow the tracts of quality and service.
4. After the equipment needs replace spare parts in the period of warranty, we promised that we will provide cost price of identity.
5. Complementary pre-sales and after-sales such as technical supports, installation of equipment at site, running commissioning, installation supervision and training of operator staff.
6. We have a great number of spare parts, and have offices in most cities all around in china, to keep after-sales recruitment and high-effective, seizing every minutes and seconds, gain time for customers, to ensure normal usage.
7. In the period of warranty, check if the reason for users in the improper use of own hum on damage caused by the dismantling modified. Above is not within the scope of free maintenance.