冷热交换系列

COOLING AND HEATING SERIES

KTM-W / KTM-PW

水式模温机

WATER TEMPERATURE CONTROLLER

KTM-W / 120°C



KTM-PW / 180°C



产品特点

KEY FEATURES

中文特点

01 微电脑触摸式控制，操作简单，控温精度 ±1°C 。

02 开机自动排气。

03 显示出水及回水温度，便于监控运行状态。

04 可选模具回水功能。

05 不锈钢管路减少管路阻塞及锈垢。

06 故障显示便于排查与维护。

07 水作为传热介质， W 型最高 120°C ， PW 型最高 180°C ；冷却方式按对应型号选用。

FEATURES

01 Easy-to-use microcomputer touch controls provide temperature-control accuracy of ±1°C.

02 Automatic venting at startup.

03 Supply- and return-water temperatures are displayed for convenient process monitoring.

04 A mold-water recovery function is optional.

05 Stainless steel piping helps reduce blockage and scale caused by corrosion.

06 Fault indication simplifies troubleshooting and maintenance.

07 Water is the heat-transfer medium. W models operate up to 120°C and PW models up to 180°C, with the cooling method selected by model.

水式模温机 · 规格参数

WATER TEMPERATURE CONTROLLERS · TECHNICAL SPECIFICATIONS

KTM-W / 120°C · KTM-PW / 180°C

型号 Model	最高温度 Max. temp. (°C)	加热功率 Heater (kW)	水泵功率 Pump (kW)	最大流量 Max. flow (L/min)	最大压力 Max. pressure (bar)	加热筒数 Heating tanks	加热筒容积 Heating tank (L)	冷却筒容积 Cooling tank (L)	冷却方式 Cooling method	进出接口 Inlet / outlet (inch)	外形尺寸 Dimensions L×W×H (mm)	净重 Net wt. (kg)
KTM-600W	120	6	0.5	27	3.8	1	3	—	Direct cooling	3/8" (2 × 2)	635×280×740	60
KTM-600W-D	120	6 × 2	0.5 × 2	27 × 2	3.8	2	3.0 × 2	—	Direct cooling	3/8" (4 × 2)	655×510×740	100
KTM-900W	120	9	0.75	42	5	1	3	—	Direct cooling	3/8" (2 × 2)	655×280×740	72
KTM-900W-D	120	9 × 2	0.75 × 2	42 × 2	5.5	2	3.0 × 2	—	Direct cooling	3/8" (4 × 2)	655×510×740	105
KTM-1200W	120	12	1.5	74	6.2	2	6	—	Direct cooling	3/8" (4 × 2)	695×340×815	120
KTM-2400W	120	24	2.8	130	8	2	7.4	—	Direct cooling	1" (1 × 2)	870×360×930	140
KTM-3600W	120	36	4	200	8	4	17.4	—	Direct cooling	1" (1 × 2)	980×415×930	165
KTM-600-PW	180	6	0.55	27	3.8	1	3.4	2	Indirect cooling	3/8" (2 × 2)	765×320×765	80
KTM-900-PW	180	9	0.75	42	5	1	3.4	2	Indirect cooling	3/8" (2 × 2)	765×320×765	85
KTM-1200-PW	180	12	1.5	74	6.2	1	3.4	4.6	Indirect cooling	1" (1 × 2)	795×340×820	95

冷热交换系列

COOLING AND HEATING SERIES

KTM / KTM-HT

油式模温机

OIL TEMPERATURE CONTROLLER

KTM-HT / 300°C



双机一体 / Double Heating Units in One



产品特点

KEY FEATURES

中文特点

01 触摸式温控器存储设定并自动演算，控温精确可靠，精度 ±2°C 。

02 两组电热管可单独或同时使用。

03 加热、冷却响应快，温度稳定。

04 电热筒等部件采用不锈钢。

05 配备安全保护及故障指示系统。

06 有助于提高成型效率、减少不良品及外观缺陷，并降低能耗。

07 节电可达 35% 以上，实际节能效果视工况而定。

08 普通油式机型最高 200°C ，高温油式机型最高 300°C ，按工艺要求选择对应型号。

FEATURES

01 A touch-operated controller stores settings and uses automatic calculation for reliable temperature control with accuracy of ±2°C.

02 Two heater banks can operate independently or together.

03 Rapid heating and cooling response helps maintain stable temperature.

04 The heater cylinder and related components are stainless steel.

05 Safety protection and fault indication are provided.

06 Stable mold temperature helps improve molding efficiency, reduce rejects and cosmetic defects, and lower energy use.

07 Electricity savings can exceed 35%, depending on operating conditions.

08 Standard oil models operate up to 200°C and high-temperature models up to 300°C. Select the appropriate model for the process.

油式模温机 · 规格参数

OIL TEMPERATURE CONTROLLERS · TECHNICAL SPECIFICATIONS

KTM / 200°C · KTM-HT / 300°C

型号 Model	最高温度 Max. temp. (°C)	加热功率 Heater (kW)	水泵功率 Pump (kW)	最大流量 Max. flow (L/min)	最大压力 Max. pressure (bar)	加热筒数 Heating tanks	油箱容积 Oil tank (L)	冷却方式 Cooling method	进出接口 Inlet / outlet (inch)	外形尺寸 Dimensions L×W×H (mm)	净重 Net wt. (kg)
KTM-600	200	6	0.5	27	3.8	1	6 × 3.2	Indirect cooling	3/8" (2 × 2)	635×280×740	60
KTM-600-D	200	6 × 2	0.5 × 2	27 × 2	3.8	2	6 × 2 × 3.2 × 2	Indirect cooling	3/8" (4 × 2)	655×510×740	100
KTM-900	200	9	0.75	42	5	1	6 × 3.2	Indirect cooling	3/8" (2 × 2)	655×280×740	72
KTM-900-D	200	9 × 2	0.75 × 2	42 × 2	5	2	6 × 2 × 3.2 × 2	Indirect cooling	3/8" (4 × 2)	655×510×740	105
KTM-1200	200	12	1.5	74	6.2	1	6.8 × 11.8	Indirect cooling	3/8" (4 × 2)	695×340×815	120
KTM-2400	200	24	3	130	8	2	11 / 16	Indirect cooling	1" (1 × 2)	870×360×930	140
KTM-3600	200	36	4	200	8	3	14 / 16	Indirect cooling	1¼" (1 × 2)	980×415×930	165
KTM-900HT	300	9	0.5	28	4.8	1	6 / 6	Indirect cooling	¾" / ¾"	695×280×740	75
KTM-1200HT	300	12	1	58	5.8	1	6.8 / 16	Indirect cooling	1" / 1"	1000×400×800	90
KTM-2400HT	300	24	2.8	100	8	2	16 / 25	Indirect cooling	1" / 1"	1050×515×910	190

冷热交换系列

COOLING AND HEATING SERIES

KIC-A / KIC-W

风冷式与水冷式冷水机

AIR-COOLED AND WATER-COOLED CHILLERS

KIC-A • 风冷式



KIC-W • 水冷式



产品特点

KEY FEATURES

中文特点

01 单级蒸汽压缩制冷，降温快、控温稳定，冷却水温范围 7–35°C 。不锈钢保温水箱配防结冰保护。

02 采用涡旋压缩机、热力膨胀阀及壳管式蒸发器。风冷机型可配谷轮或大金压缩机。标准冷媒 R22 ，可选 R407 、 R410 或 R134 ，随对应配置提供。

03 配高、低压开关，压缩机及水泵过载保护，以及逆相、缺相警示。风冷机型精密温控表精度 ±0.1°C ，操作与维护简便。

04 风冷机型标配低压泵，可选中压或高压泵。可选水箱液位计及水位开关，并配旁通管。电源为三相 380 V 、 50 Hz ，可定制；欧规安全回路型采用 CE 后缀。

05 风冷机型采用翅片式冷凝器，无需额外冷却水源，建议用于环境温度 30°C 以下。水冷机型采用壳管式冷凝器，导热及热交换效率高。

FEATURES

01 A single-stage vapor-compression circuit delivers rapid cooling and stable control over a 7–35°C water-temperature range. A stainless steel insulated tank includes freeze protection.

02 Scroll compressors, a thermal expansion valve and a shell-and-tube evaporator support efficient cooling. Air-cooled units offer Copeland or Daikin compressors. R22 is standard, with R407, R410 or R134 available in the corresponding configuration.

03 Protection includes high/low-pressure switches, compressor and pump overload protection, and phase-reversal and phase-loss alarms. Air-cooled units use a precision controller rated at ±0.1°C for straightforward operation and maintenance.

04 Air-cooled units include a low-pressure pump, with medium- or high-pressure pumps optional. Tank-level gauges and level switches are optional, with a bypass line provided. Power is three-phase, 380 V, 50 Hz, with customization available. CE suffix versions use a European-standard safety circuit.

05 Air-cooled units use a finned condenser and require no separate cooling-water supply. Operation below 30°C ambient temperature is recommended. Water-cooled units use a shell-and-tube condenser for efficient heat transfer.

冷热交换系列

COOLING AND HEATING SERIES

风冷式冷水机 · 规格参数

AIR-COOLED CHILLERS · TECHNICAL SPECIFICATIONS

KIC-3A – KIC-50A

项目 / Item	KIC-3A	KIC-5A	KIC-8A	KIC-10A	KIC-12.5A	KIC-15A	KIC-20A	KIC-25A	KIC-30A	KIC-40A	KIC-45A	KIC-50A
制冷量 (kW) Cooling capacity	7.69	13.5	19.08	25.56	31.41	38.79	51.12	62.82	77.58	102.24	113.94	125.64
制冷量 (kcal/h) Cooling capacity	6612	11607	16405	21973	27006	33352	43943	54013	66703	87906	97956	108026
压缩机功率 (kW) Compressor power	2.77	4.65	7	9.35	12	14.2	18.7	24	28.4	37.75	42.6	48
压缩机功率 (HP) Compressor rating	3	5	8	10	12.5	15	20	25	30	40	45	50
制冷剂充注量 (kg) Refrigerant charge	2.7	4.3	7	8	11	13	18	22	26	34	42	48
冷凝风机功率 (kW) Condenser fan power	0.25	0.45	0.18×2	0.18×2	0.25×2	0.25×2	0.55×2	0.65×2	0.75×2	0.75×2	0.75×3	0.75×4
水箱容积 (L) Water tank volume	50	50	85	85	150	150	180	200	270	400	400	650
水泵功率 (kW) Pump power	0.75	—	0.75	1.1	1.1	1.5	2.2	2.2	4	4	4.4	4.4
最大工作流量 (L/min) Max. working flow	50	50	100	200	200	200	200	200	300	300	400	400
最大工作压力 (kg/cm^2) Max. working pressure	2.1	3	2	3	2	2	2.5	2.2	4	4	4.4	4.4
总功率 * (kW) Total power *	3.24	5.2	7.41	10.5	12.7	13.7	18	22.4	26	39.4	40.4	45.9
冷冻水出口 (inch) Chilled water outlet	1/2''×4	1/2''×4	1½"×1	1½"×1	2''×1	2''×1	2''×1	2''×1	2½"×1	2½"×1	2½"×1	2½"×1
冷冻水入口 (inch) Chilled water inlet	1/2''×4	1/2''×4	1½"×1	1½"×1	2''×1	2''×1	2''×1	2''×1	2½"×1	2½"×1	2½"×1	2½"×1
水箱排水口 (inch) Tank drain outlet	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1''	1''	1''	1''	1''	1''
水箱溢流口 (inch) Tank overflow outlet	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1''	1''	1''
净重 (kg) Net weight	250	310	426	426	630	670	1050	1100	1220	1500	1850	2100
外形尺寸 D×W×H (mm) Dimensions	1100 600 960	1100 600 960	1100 750 1000	1100 750 1000	1550 900 1200	1550 900 1240	2050 1880 910	2000 1000 1430	2000 1000 1430	2800 1100 1740	2800 1100 1740	2800 1250 1740

冷热交换系列

COOLING AND HEATING SERIES

水冷式冷水机 · 规格参数

WATER-COOLED CHILLERS · TECHNICAL SPECIFICATIONS

KIC-3W – KIC-50W

项目 / Item	KIC-3W	KIC-4W	KIC-5W	KIC-8W	KIC-10W	KIC-12.5W	KIC-15W	KIC-20W	KIC-25W	KIC-30W	KIC-40W	KIC-45W	KIC-50W
制冷量 (kW) Cooling capacity	8	10.8	13.5	21.6	27	33.75	40.5	54	67.5	81	110.4	124.2	138
制冷量 (kcal/h) Cooling capacity	6880	9288	11610	18576	23220	29025	34830	46440	58050	69660	94944	106812	118680
压缩机功率 (kW) Compressor power	2.2	3	3.7	6	7.5	9.4	11	15	18.7	22	30	34	37.5
压缩机功率 (HP) Compressor rating	3	4	5	8	10	12.5	15	20	25	30	40	45	50
制冷剂充注量 (kg) Refrigerant charge	1.5	1.8	2.5	3.8	5	7	8.5	10	14	17	20	25	34
冷却水流量 (L/min) Cooling water flow	56	56	65	90	100	130	160	220	270	330	480	500	600
水箱容积 (L) Water tank volume	50	50	50	85	85	150	150	180	200	270	400	400	600
水泵功率 (kW) Pump power	0.75	0.75	0.75	1.1	1.1	2.2	2.2	2.2	2.2	4	4	4	4
最大工作流量 (L/min) Max. working flow	50	50	50	80	80	130	130	200	200	300	300	533	533
最大工作压力 (kg/cm^2) Max. working pressure	2	2	2	2	2	2	2.5	2.5	2.5	2.5	2.7	2.7	2.7
总功率 * (kW) Total power *	2.95	3.75	4.45	7.1	8.6	11.6	13.2	17.2	20	26	34	38	45
冷冻水出口 (inch) Chilled water outlet	1/2''×4	1/2''×4	1/2''×4	1½"×1	1½"×1	2''×1	2''×1	2''×1	2''×1	2½"×1	2½"×1	2½"×1	2½"×1
冷冻水入口 (inch) Chilled water inlet	1/2''×4	1/2''×4	1/2''×4	1½"×1	1½"×1	2''×1	2''×1	2''×1	2''×1	2½"×1	2½"×1	2½"×1	2½"×1
水箱排水口 (inch) Tank drain outlet	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1''	1''	1''
水箱溢流口 (inch) Tank overflow outlet	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1/2''	1''	1''	1''
净重 (kg) Net weight	250	—	310	426	426	630	670	1050	1100	1220	1500	1850	2100
外形尺寸 L×W×H (mm) Dimensions	1100 600 960	1100 600 960	1100 600 960	1200 830 1050	1200 830 1050	1380 870 1240	1380 870 1240	2000 1000 1450	2000 1000 1450	2000 1000 1450	2850 1050 1860	2850 1050 1860	2850 1050 1860

冷热交换系列

COOLING AND HEATING SERIES

水冷式中央冰水主机

WATER-COOLED CENTRAL CHILLER



产品特点

KEY FEATURES

中文特点

01 采用德国 BITZER 半密闭式双螺杆压缩机，轴承寿命长，适合长时间运行。

02 提供单压缩机或双压缩机配置，可适配 R22 、 R134a 等冷媒。

03 压缩机多级能量调节，可根据负荷需求调整输出，以改善能耗表现。

04 卧式冷凝器及蒸发器换热性能高，符合相应压力容器要求，便于维护。

05 嵌入式微电脑控制器便于硬件扩展、程序扩展及升级。

06 Watchdog 技术支持自诊断及自动故障检测。

07 控制器配置 512K 程序存储及 128K 断电数据保存空间。

08 触控屏保护系统延长屏幕寿命，可达十年以上，实际视使用条件而定。

09 故障查询与统计可按故障序号、次数及发生时间分析，便于排查及改善。

FEATURES

01 A BITZER semi-hermetic twin-screw compressor with long-life bearings supports extended operation.

02 Single- and dual-compressor versions are available, with configurations for refrigerants such as R22 and R134a.

03 Multi-stage compressor capacity control matches output to the cooling load to improve energy performance.

04 Horizontal condensers and evaporators meet the applicable pressure-vessel requirements and combine efficient heat transfer with accessible maintenance.

05 An embedded microcomputer controller supports hardware and software expansion and upgrades.

06 Watchdog technology supports self-diagnostics and automatic fault detection.

07 The controller includes 512K of program memory and 128K of retained data storage.

08 A screen-protection system helps extend touchscreen life to more than ten years, depending on operating conditions.

09 Fault queries and statistics track fault codes, frequency and occurrence time to support troubleshooting and corrective action.