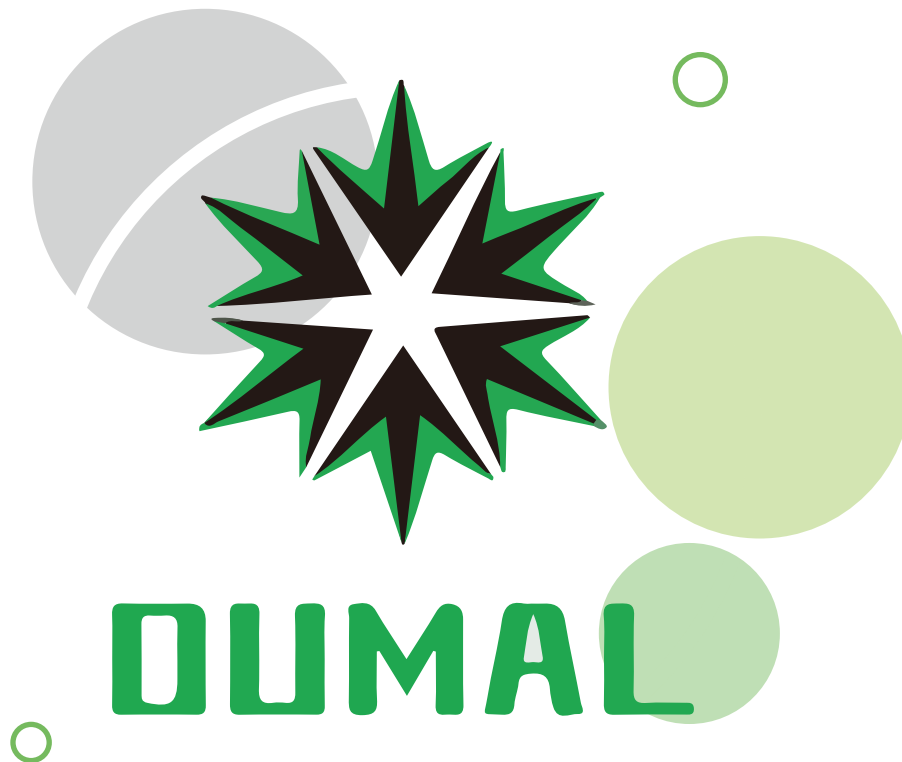




欧玛尔·制冷科技



深圳市欧玛尔制冷机械有限公司

SHENZHEN OUMAL REFRIGERATION MACHINERY CO.,LTD

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公司介绍 Company Profile

欧玛尔制冷机械有限公司通过开发和制造创新的工业传热产品，包括冷水机组，模温机和冷却塔，提高了工业制造公司在各行各业的盈利能力，通过提高有效且节能的工艺冷却。欧玛尔设备可提高产品质量并缩短许多应用中的制造时间，如：注塑成型，热成型和吹塑，吹膜，塑料挤出,复合混合等。

欧玛尔的使命是提高质量的可靠生产线，我们的重点事通过客户满意度，创新理念和灵活性为多元化的市场服务。多年来，我们的销售和应用支持团队已经学会为大多数应用程序提供建议。制造工厂能够生产具有无数选项和修改的设备，以满足几乎任何客户需求或特定应用。

OUMAL Refrigeration Machinery Co.,Ltd increases the profitability of industrial manufacturing companies in a wide range of industries by developing and manufacturing innovative industrial heat transfer products including water chillers, temperature control units and cooling towers. By providing effective and energy efficient process cooling, OUMAL equipment improves product quality and reduces manufacturing time in many applications, Such as injection molding, thermoforming and blow molding,blown film, plastic extrusion, compound mixing etc.

The mission of OUMAL is to provide a high-quality dependable product line. Our focus is to serve a diverse market through customer satisfaction, innovative ideas, and flexibility. Over the years our sales and application support teams have learned to make recommendations for most any application. OUMAL manufacturing facility is capable of producing equipment with an endless list of options and modifactions to meet virtually any customer need or specific application.



荣誉证书 Certification



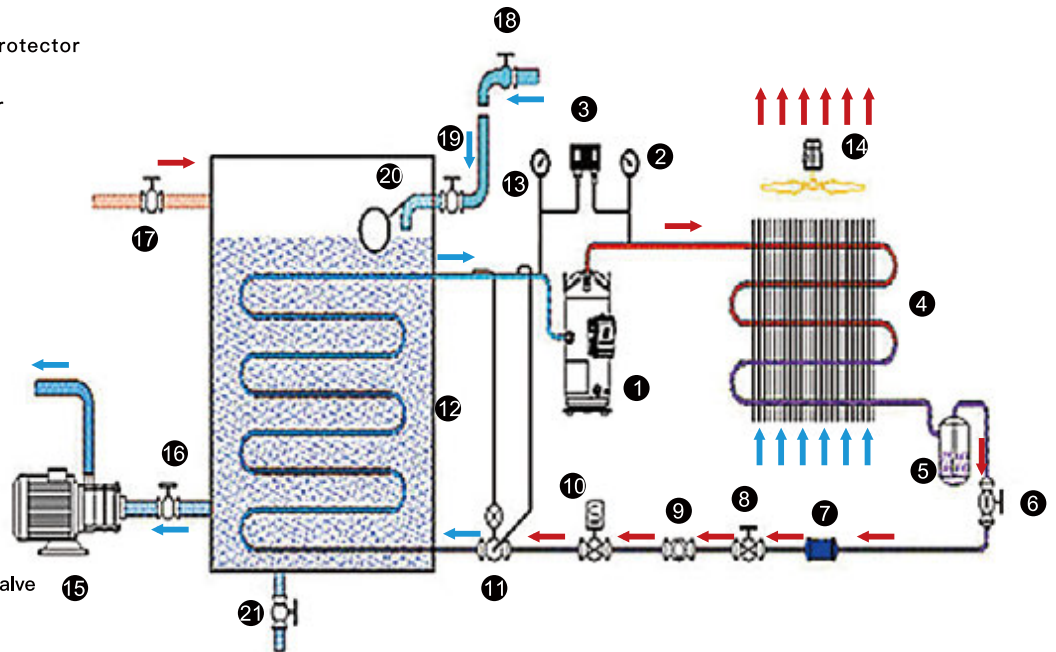
作为一家专业的制冷设备供应商，我司与制冷行业各大知名品牌建立了长期稳定的合作关系。其中涡旋压缩机采用美国谷轮、日本三洋、丹麦丹佛斯，半封闭活塞压缩机采用美国谷轮、意大利都灵、德国比泽尔，半封闭螺杆压缩机采用台湾汉钟 / 复盛和德国比泽尔。其它制冷配件主要采用法国施耐德电器、美国丹佛斯膨胀阀、美国艾克干燥过滤器、台湾马尔 / 微光风机、南方不锈钢水泵、台湾源立铸铁水泵等，以保证每一台机器性能稳定，质量上乘。

We really believe good quality chiller is from our factory beginning. To make sure each water chiller and refrigeration unit are good quality and long service life, we develop and maintain strategic partnerships with world renowned manufacturers and suppliers in refrigeration filed which can guarantee world-class product quality and service. The hermetic scroll compressor brands are: USA Copeland, Denmark Danfoss, Sanyo & Panasonic from Japan, For semi-hermetic piston compressor, we use USA Copeland, Italy Dorin, German Bitzer. and for Semi-hermetic screw compressors, we are using Bitzer from German, Hanbell and Fusheng from Taiwan. Schneider Electric, Air blower is Maer / Weiguang, Alco brand dryer filter, Danfoss brand expansion valve, Grundfos, CNP and Minamotor water pump to make sure each chiller unit good quality and best performance.



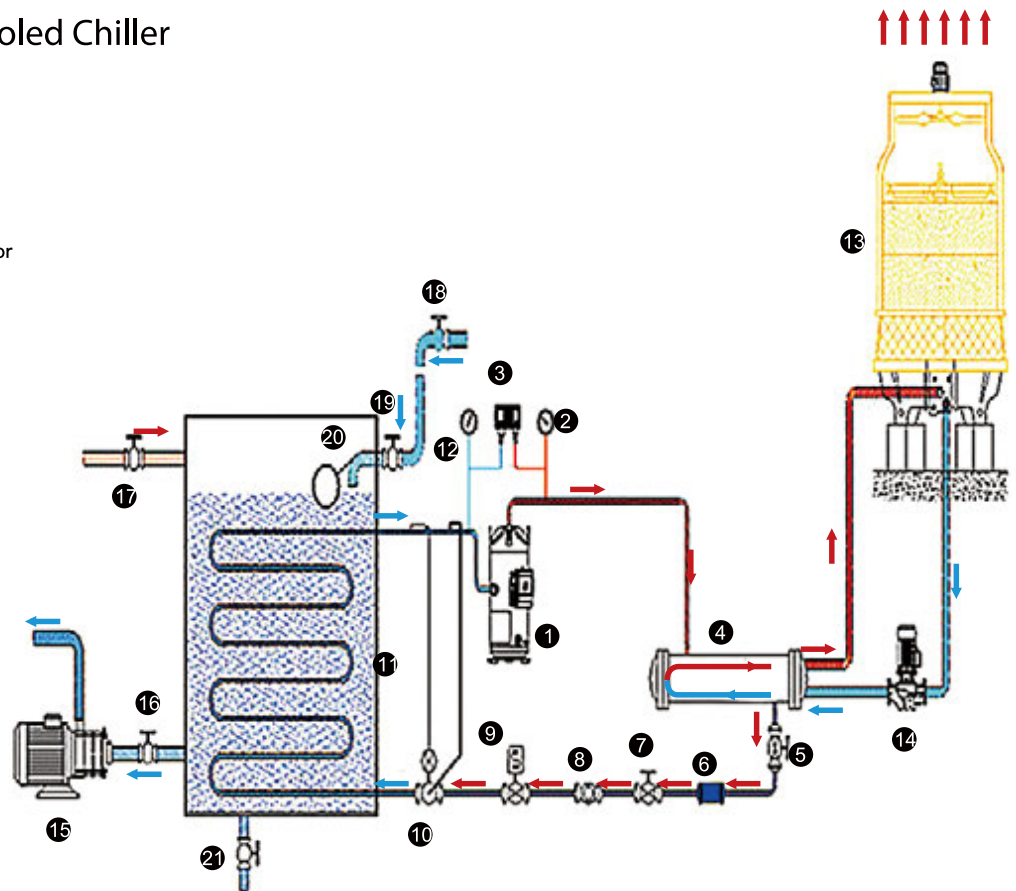
风冷式冷水机 Air Cooled Chiller

- 1 Compressor
- 2 High pressure gauge
- 3 High and low pressure protector
- 4 Condenser
- 5 High pressure accumulator
- 6 Angled shut-off valve
- 7 Filter dryer
- 8 Manual Shut-off valve
- 9 Liquid minor
- 10 Solenoid valve
- 11 Expansion valve
- 12 Evaporator
- 13 Low pressure gauge
- 14 exhaust fan
- 15 water pump
- 16 outlet water shut-off valve
- 17 inlet water shut-off valve
- 18 tap water valve
- 19 water supply valve
- 20 tank water floating ball valve
- 21 Water tank drainage water valve



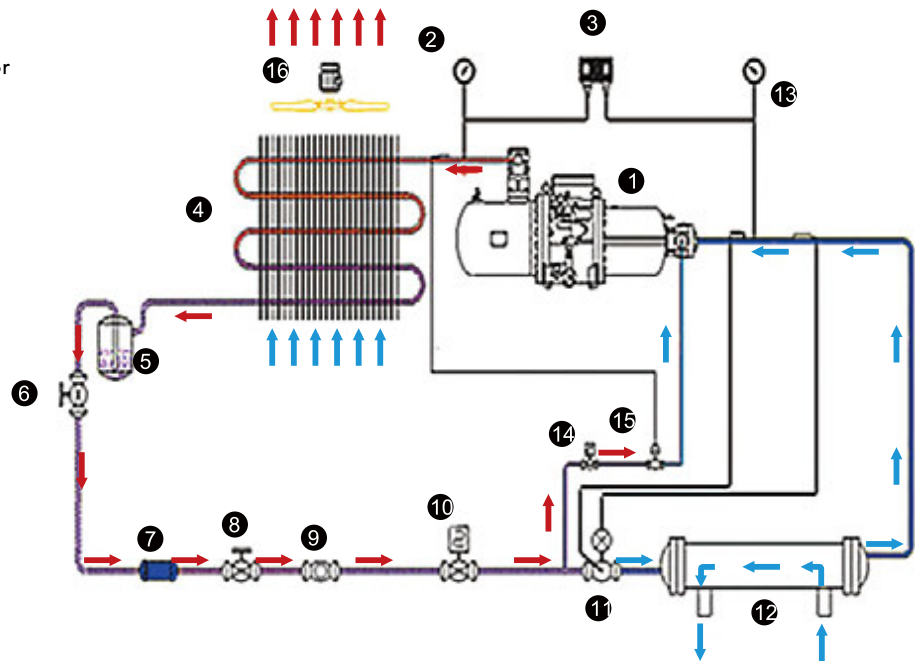
水冷式冷水机 Water Cooled Chiller

- 1 Scroll compressor
- 2 High pressure gauge
- 3 High and low pressure protector
- 4 Condenser
- 5 Angled shut-off valve
- 6 Filter dryer
- 7 Manual shut-off valve
- 8 Liquid minor
- 9 Solenoid valve
- 10 Expansion valve
- 11 Evaporator
- 12 Low pressure gauge
- 13 Cooling tower
- 14 Water pump
- 15 Chilled water pump
- 16 Outlet water shut-off valve
- 17 Inlet water shut-off valve
- 18 Tap water valve
- 19 Water supply valve
- 20 Tank water floating ball valve
- 21 Water tank drain water valve



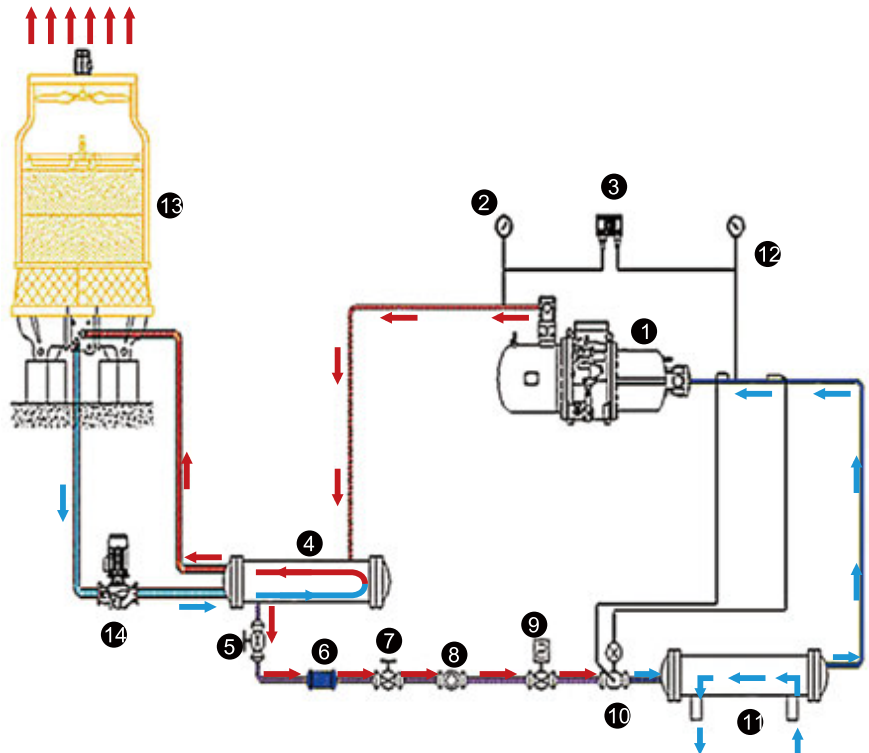
风冷式螺杆冷水机 Air Cooled Screw Chiller

- 1 Screw compressor
- 2 High pressure gauge
- 3 High and low pressure protector
- 4 Condenser
- 5 High pressure liquid receiver
- 6 Angled shut-off valve
- 7 Filter dryer
- 8 Manuel shut-off valve
- 9 Liquid minor
- 10 Solenoid valve
- 11 Thermost expansion valve
- 12 Evaporator
- 13 Low pressure gauge
- 14 Liquid spray solenoid valve
- 15 Liquid spray expansion valve
- 16 Air blower



水冷式螺杆冷水机 Water Cooled Screw Chiller

- 1 Screw compressor
- 2 High pressure gauge
- 3 High and low pressure protector
- 4 Condenser
- 5 Angled shut off valve
- 6 Filter dryer
- 7 Manual shut off valve
- 8 Liquid minor
- 9 Solenoid valve
- 10 Thermal expansion valve
- 11 Evaporator
- 12 Low pressure gauge
- 13 Cooling tower
- 14 Water pump





风冷式工业冷水机优点:

- 结构紧凑，运转平稳：冷凝器、蒸发器均采用高效传热管，主机选用进口高效全封闭涡旋式压缩机，具有结构紧凑、体积小、重量轻、安装位置小等诸多优点。全封闭涡旋式压缩机运动部件少，压缩机采用柔性压缩机，能效比高，低噪音，运行成本低，可自动卸载降压没有直接磨损，可靠性高。由于是连续压缩机无脉动，因此机组具有性能稳定、噪音低、振动小、运行平稳的特点。
- 完善的能量控制系统：根据负荷变化自动调节机组启停，更加节能。运行时，电脑控制系统会依据客户端热负荷变化来改变机组的能量输出。微电脑通过监控测量的实际负荷与用户的设定之差异迅速判断到所需的能量。并且在多台系统中，以最佳冷量输出时最少电能消耗的优化方式工作，不但全负荷时体现出优异的性能，而且在部分负荷时也有很高的运行效率；
- 操作简便直观：机组采用微电脑程序控制器（中英文显示/ 数码管显示），按照屏幕上/ 面板上的提示菜单选择操作，直接用手轻触按钮即可启动机组。面板可随时显示机组的运行状态，并且以文字+ 数字的方式显示，一目了然。

Advantages:

Adjustable temperature control range 5°C to 30. This kind of air chiller equips with branded Copeland, Danfoss, Sanyo or Panasonic Hermetic scroll compressors depend on detailed requirements. We have 3 or 4 refrigerant circuits for chiller models from AC-25AD to AC-60AF according to chiller refrigeration capacity. Each circuit can work or stop independently for chiller safety and energy saving considering. Each air cooled chiller having stainless steel buffer tank and built-in water pump allows easy installation and high flexibility. All the water piping system are stainless steel material can make sure the circulation water clean without rust.

For air chiller evaporator, we have some options for different processing requirements, Built-in water tank as the open loop system and Shell & Tube type heat exchanger or Stainless Steel Plate heat exchanger as the closed loop system.

For this air cooled chiller condenser, we are using Aluminum fin with copper tube with big volume air blowers. For refrigerant, there are R22, R407c, R134a, R410a, R404a for option. For refrigerant R134a charged chiller, can be installed and working under 55°C to 60°C high ambient temperature without any high pressure alarm. Each air cooled chiller from OUMAL has to be checked carefully after production and refrigerant charged before delivery. This is more convenient for all air chiller end users installation and operation when they received OUMAL products. Each air chiller unit is with portable wheels doesn't require cooling tower, which is easy install and remove.

参数表 Specification

风冷式工业冷水机 Air Cooled Water Chiller Technical Specifications													
项目Item		型号Model	OMC-1A	OMC-2A	OMC-3A	OMC-5A	OMC-8A	OMC-10A	OMC-15A	OMC-20A	OMC-25A	OMC-30A	OMC-40A
名义制冷量 Cooling capacity	KW Kcal/h	2.7	5.4	8.1	13.5	21.6	27	40.5	54	67.5	81	108	
		2322	4644	6966	11610	18576	23220	34830	46440	58050	69660	92880	
	Ton Btu/h	0.8	1.5	2.3	3.8	6.1	7.1	11.5	15.4	19.2	23.0	30.7	
		9215	18430	27645	46075	73720	92150	138225	184300	230375	276451	368601	
输入功率 Input power	KW	1.4	2.1	2.8	5	7.3	9.2	14	18	22	28	36	
电源Power source			1PH-220V 50Hz		3PH-380V 50Hz								
温控范围 Temperature Range ℃			5-35										
制冷剂 Refrigerant	名称Type	R22 (R407C/R410A/R134A)											
压缩机 Compressor	控制Control	毛细管 Capillary					膨胀阀 Expansion Valve						
	类型Type	全封闭活塞式或涡旋式 Piston Type / Scroll Type											
	功率Power(KW)	0.75	1.5	2.2	4	6	7.5	11	15	18.5	22	30	
冷凝器 Condenser	类型Type	高效铜管套波纹型铝翅片 High efficiency copper condensing coil with Aluminum+Spiral axial flow fan											
	冷却风量 Cooling Air Flow(m³/h)	1000	2000	3000	5000	8000	10000	15000	20000	25000	30000	40000	
冷冻水 Chilled water	水箱容量Tank Volume	25	30	60	65	150	180	300	400	400	540	630	
	水箱材质Tank Material	304不锈钢 SUS304 Stainless Steel											
	管径 Pipe Diameter(inch)	1/2 "	3/4 "	3/4 "	1 "	1-1/2 "	1-1/2 "	2 "	2 "	2-1/2 "	2-1/2 "	3 "	
蒸发器 Evaporator	类型Type	水箱盘管或壳管式 Tank with coil (Shell and Tube)											
	冷冻水流量m³/h Chilled Water Flow	0.5	0.9	1.4	2.3	3.7	4.6	7.0	9.3	11.6	13.9	18.6	
水泵 Water pump	扬程 Lift	20	20	20	20	20	20	20	20	20	20	20	
	功率 Power	0.37	0.37	0.37	0.75	1.1	1.5	1.5	2.2	2.2	4	4	
安全保护 Safety protection			压缩机过热保护，过流保护，高低压保护，超温保护，流量保护，缺相和逆相保护，排气过热保护。 Compressor overheating protection, over-current protection, high and low pressure protection, over-temperature protection, flow protection, reversed and lacking phase protection, exhaust overheating protection.										
机械尺寸 Dimension	长 Leghth (mm)	680	770	1000	1120	1250	1500	2080	2100	2100	2300	2430	
	宽 Width (mm)	420	500	480	530	680	770	780	850	850	930	1185	
	高 Height (mm)	850	950	1100	1200	1350	1400	1650	1600	1700	1650	1710	
机组净重Net weight (KG)			74	95	128	172	300	350	750	850	950	1080	1360

备注Note

以上参数依据下列工况设计:The above specifications are according to the following design conditions:

1, 冷冻水进出水温度12℃/7℃.Chilled water inlet/outlet temperature 12℃/7℃.

2, 冷却风进出温度33℃/38℃.Cooling air inlet/outlet temperature 33℃/38℃.

规格性能因产品改良有所改动恕不另行通知。We reserve the right to modify the specification without further notice.



功能特点 SPECIAL FEATURES

- 结构紧凑，运转平稳：机组的冷凝器、蒸发器均采用高效传热管，主机选用进口高效的全封闭涡旋式压缩机，具有结构紧凑、体积小、重量轻、安装位置小等诸多优点。全封闭涡旋式压缩机运动部件少，压缩机采用柔性压缩机，能效比高，低噪音，运行成本低，可自动卸载降压且没有直接磨损，可靠性高。由于是连续压缩机无脉动的，因此机组具有性能稳定、噪音低、振动小、运行平稳的特点。
- 微电脑控制器的保护功能：具有压缩机线圈电流过高的保护、水泵电流过高、冷水流量开关、冷水出水温度过低保护、温度过高保护、压缩机过载保护、启停频繁保护、电压异常保护、高低压保护等保护功能。
- 优化配置：采用水冷式制冷效率高，尽可能的减少噪音，满足环保要求（需要配备水塔水泵使用）。

便于安装：机组在工厂内已完成全部的部件安装，运行测试，并已加注制冷剂及冷冻油，用户只需铺设水路及电路和水塔安装连结即可投入使用，减少了安装及调试时间。

Advantages:

Water cooled water chiller is also named water cooled chiller and water to water chiller with cooling capacity from 9.5KW to 236KW and adjustable temperature control range 5°C to 30°C. Compared with Air cooled chiller, Water cooled chiller is higher cooling efficiency. This kind water chiller equis with branded Copeland, Danfoss, Sanyo or Panasonic Hermetic scroll compressors depend on detailed requirements. We have 3 or 4 refrigerant circuits for water chiller models from AW-15WT to AW-60WF according to chiller refrigeration capacity. Each circuit can work or stop independently for chiller safety and energy saving considering.

Each water cooled chiller havint stainless buffer tank and built-in water pump allows easy installation and high flexibility. All the water piping systems are evaporator, we have some options for different processing requirements, Built-in water clean without rust.

For water cooled chiller evaporator, we have some options for different processing requirements, Builn water tank as open loop system and Shell & Tube type heat exchanger or Stainless Steel Plate heat exchanger as closed loop system.

For water chiller condenser, we are using water cooled shell and tube heat exchanger working together with external water cooling tower.

Each water cooled chiller unit from OUMAL has to be checked carefully after production and refrigerant charged before delivery. This is more convenient for all water chiller end users installation and operation when they received OUMAL products. This kind water chiller unit is with portable wheels, requiring connect with external water cooling tower and circulation water pump for normal working.

参数表 Specification

水冷式工业冷水机Industrial water cooled scroll chiller												
项目Item	型号Model	OMC-3W	OMC-5W	OMC-8W	OMC-10W	OMC-12W	OMC-15W	OMC-20W	OMC-25W	OMC-30W	OMC-40W	OMC-50W
名义制冷量 Cooling capacity	KW Kcal/h	9	15	24	30	36	45	60	75	90	120	150
		7740	12900	20640	25800	30960	38700	51600	64500	77400	103200	129000
	Ton Btu/h	2.5	4.2	6.8	8.5	10.2	12.8	17.0	21.3	25.5	34.1	42.6
		30716	51194	81911	102389	122866	153583	204778	255973	307167	409556	511945
输入功率 Input power	KW	2.62	4.5	6.75	8.25	10.2	12.75	17.2	20.95	26.5	34	43
电源Power source	三相 380V 50赫兹 3PH-380V 50Hz											
温控范围 Temperature Range	℃											
制冷剂 Refrigerant	名称Type	R22 (R407C/R410A/R134A)										
	控制Control	毛细管 Capillary 膨胀阀 Expansion Valve										
压缩机 Compressor	类型Type	全封闭式涡旋 Scroll type / 半封闭活塞式 Piston Type										
	功率Power(KW)	2.25	3.75	6	7.5	9	11.25	15	18.75	22.5	30	37.5
冷凝器 Condenser	类型Type	壳管式 Shell and tube										
	冷冻水流量m³/h Chilled Water Flow	0.45	0.77	1.16	1.42	1.75	2.19	2.96	3.60	4.56	5.85	7.40
冷冻水 Chilled water	水箱容量Tank Volume	60	70	150	180	240	300	400	400	540	630	700
	水箱材质Tank Material	304不锈钢 SUS304 Stainless Steel										
	管径 Pipe Diameter(inch)	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"
蒸发器 Evaporator	类型Type	水箱盘管或壳管式 Tank with coil (Shell and Tube)										
	冷冻水流量m³/h Chilled Water Flow	1.5	2.6	4.1	5.2	6.2	7.7	10.3	12.9	15.5	20.6	25.8
水泵 Water pump	扬程 Lift	20	20	20	20	20	20	20	20	20	20	20
	功率 Power	0.37	0.75	0.75	0.75	1.2	1.5	2.2	2.2	4	4	5.5
安全保护 Safety protection		压缩机过热保护, 过流保护, 高低压保护, 超温保护, 流量保护, 缺相和逆相保护, 排气过热保护。 Compressor overheating protection, over-current protection, high and low pressure protection, over-temperature protection, flow protection, reversed and lacking phase protection, exhaust overheating protection.										
机械尺寸 Dimension	长 Leghth (mm)	850	900	1100	1250	1300	1450	1600	1620	1650	1900	2000
	宽 Width (mm)	500	500	680	600	600	780	850	850	850	1000	1000
	高 Height (mm)	880	980	1300	1300	1350	1350	1460	1480	1500	1650	1700
机组净重Net weight (KG)		130	160	300	450	680	740	820	900	1100	1300	1500

备注Note

以上参数依据下列工况设计:The above specifications are according to the following design conditions:

- 1, 冷冻水进出水温度12℃/7℃.Chilled water inlet/outlet temperature 12
- 2, 冷却风进出温度33℃/38℃.Cooling air inlet/outlet temperature 33℃/38℃.

规格性能因产品改良有所改动恕不另行通知。We reserve the right to modify the specification without further notice.



功能特点 SPECIAL FEATURES

风冷螺杆式冷水机组，无需安装冷却水塔，使用更方便。机组适用范围广泛，适用于塑胶、电镀、电子、化工、医疗、净化、食品、冶金等各个行业提供冷却系统配套及工程。同时也为商场、办公楼、酒店、医院等公共场所提供性能卓越的冷水系统，为客户创造安静舒适的生活工作环境。

- 高效半封闭双螺杆压缩机，机组运行平稳，噪声低。吸气冷却使电机运行温度低，电机寿命长。
- 采用高质量轴承，轴承寿命至少40000小时。内置式油分离器，体积更小，效果更好。
- 可以在0%~100%范围内安全的实现阶段或无级能量调节，最大限度节约电力资源。
- 蒸发器采用高效能壳管式换热器（可选配不锈钢板式换热器），内置高效换热齿牙管，设计合理，换热效果良好；适用于R22、R407c、R134a、R404A等多种工质。
- 可选配经济器和机油冷却装置以进一步提高压缩机制冷量和效率，可选配喷液冷却装置以扩展压缩机的应用范围。
- 可实现开机控制程序、能量调节程序、停机控制程序、故障停机、故障诊断、运转时间统计、运行状态显示及恢复重新开机程序等。
- 具有控制功能全、保护功能齐、中英文界面及操作简便等特点，电脑液晶触摸屏控制器，可反映机组运行状况，操作更加便捷。可接驳远程控制主机，实现高度自动化，无需专门设置运行管理人员。

Air cooled screw chiller adopts branded screw type compressor, high efficient copper condenser, evaporator and famous control components, which features compact size, low noise & vibration, high cooling capacity, easy operation.

This kind of air cooled screw chillers are used widely in plastic industry, electronics, plating, chemical industry, ultra-sonic wave cooling, printing and others. OUMAL chiller supplies air cooled screw chillers in various standard specifications, and customer screw chillers are also welcomed to match your special needs.

Advantages:

New screw type compressor with 20%–30% higher in cooling efficiency.

Cooling capacity control available at four steps (100%–75%–50%–25%), three steps (100%–66%–33%).

High efficiency, low noise and vibration, easy installation.

Environmental protection refrigerant R134a, R407c available.

SIEMENS PLC program control system, human-computer interface with big LED touch panel, running state displaying in multi-language, and self-diagnosis for easy operation and supervision.

Extended industrial interface, convenient for being computer monitor via network to realize remote control.

Multi-safety protection by high and low pressure, compressor overheating, overloading, over temperature, flow switch, phase sequence, phase-missing, exhaust overheating and anti-freezing.

参数表 Specification

风冷式螺杆式冷水机Air Cooled Screw Chiller 单机头 Single Head									
项目Item		型号Model	OMC-40ASH	OMC-50ASH	OMC-60ASH	OMC-75ASH	OMC-85ASH	OMC-1000ASH	OMC-120ASH
名义制冷量Cooling capacity		kcal/h	107156	141040	151188	202100	238994	281134	329208
		KW	124.6	164	175.8	235	277.9	326.9	382.8
		Ton	35.4	46.6	50.0	66.8	79.0	92.9	108.8
		Btu/h	425256	559727	600000	802048	948464	1115700	1306485
输入功率Input power		KW	40.8	49.7	56.3	75.3	88.3	103.4	118.2
最大运行电流Max Current		A	95	121	132	171	197	232	277
电源Power source			3PH-380V/415V 50Hz （3PH-220V/440V 60Hz ）						
冷媒 Refrigerant	类型Type		R22（ R407C ）						
	充注量 Charge quantity	KG	28	35	42	53	60	70	85
	控制方式Control Mode		外平衡热力膨胀阀Thermostatic expansion valve						
压缩机 Compressor	类型Type		半封闭螺杆式 Semi-Hermetic Screw						
	功率 Power	KW	37.4	46.1	51.9	69.9	81.9	96.2	109.4
	启动方式Start mode		Y-△						
	能量调节 Capacity control	%	0-25-50-75-100（0-33-66-100）						
蒸发器 Evaporator	类型Type		壳管式 Shell and Tube						
	冷冻水 Chilled water	m³/h	21.4	28.2	30.2	40.4	47.8	56.2	65.8
	管径 Pipe connection	inch	3 "	3 "	3 "	3 "	4 "	4 "	4 "
冷凝器 Condenser	类型Type		高效铜管套波纹型铝翅片 Air cooled high-efficient inner threaded copper-tubing aluminum fin type						
风扇 Fan	类型Type	m	大功率轴流风机 Low noise outer rotor						
	功率Power	KW	3.4	3.6	4.4	5.4	6.6	7.2	8.8
	风量Air volume	m³/h	40000	50000	60000	75000	85000	10000	120000
安全保护装置 Safety protection devices			压缩机过热保护，过载保护，高低压保护，缺相和逆相保护，防冻保护，水流开关 compressor over heat protection, over load protection,high and low pressure protection,reversed and lacking phase protection, anti-freezing protection, flow switch						
外形尺寸 Dimension	长 Length	mm	2000	2200	2500	3200	3500	4000	4800
	宽 Width	mm	1500	1700	1850	1950	1950	1950	1950
	高 Height	mm	2000	2000	2150	2200	2200	2200	2200
机组净重Net weight		kg	1300	1620	1930	2260	2420	2860	3250
运行重量Running weight		kg	1390	1870	2210	2420	2680	3020	3460

风冷式螺杆式冷水机Air Cooled Screw Chiller 双机头 Double Head								
参数 Item		型号 Model	OMC-100ADH	OMC-120ADH	OMC-150ADH	OMC-170ADH	OMC-200ADH	OMC-240ADH
制冷量 Cooling Capacity	kcal/h		282080	302376	404200	477988	562268	658416
	KW		328	351.6	470	555.8	653.8	765.6
	Ton		93.3	100.0	133.6	158.0	185.9	217.7
	Btu/h		1119453.9	1200000.0	1604095.6	1896928.3	2231399.3	2612969.3
输入功率 Input Power	KW		99.4	112.6	152.2	179	210.4	238.4
最大运行电流 Max.running Current	A		242	264	342	394	464	554
功率 Power			3PH-380V/415V 50Hz (3PH-220V/440V 60Hz)					
制冷剂 Refrigerant	类型 Type		R22 (R407C)					
	充注量 Charge quantity	kg	70	84	106	120	140	170
	控制方式 Control Mode		外平衡感温式热力膨胀阀 Expansion Valve					
压缩机 Compressor	类型 Type		半封闭螺杆式 Semi-Hermetic Screw					
	功率 Power	KW	46.1 x 2	51.9 x 2	69.9 x 2	81.7 x 2	96.2 x 2	109.4 x 2
	启动方式 Start-up Mode		Y-△					
	能量调节范围 Capacity control	%	0-25-50-75-100 (0-33-66-100)					
蒸发器 Evapo rator	类型 Type		壳管式 Shell and tube					
	冷冻水流量 Chilled water flow	m3/h	56.416	60.4752	80.84	95.5976	112.4536	131.6832
	管径 Pipe Diameter	Inch	3 "	3 "	3 "	3 "	4 "	4 "
冷凝器 Condenser	类型 Type		高效铜管套波纹型铝翅片 Air cooled high-efficient inner threaded copper-tubing aluminum fin type					
风机 Fan	Type		大功率轴流风机 Low noise outer rotor					
	Power	KW	7.2	8.8	12.4	15.6	18	19.6
	Cooling air flow	m3/h	100000	120000	150000	170000	200000	240000
安全保护装置 Safety Protection			压缩机过热保护, 过载保护, 高低压保护, 缺相和逆相保护, 防冻保护, 水流开关compressor over heat protection, over load protection,high and low pressure protection,reversed and lacking phase protection, anti-freezing protection, flow switch					
尺寸 Dimension	长 Length	mm	4000	4800	6200	6800	7800	8400
	宽 Width	mm	1950	1950	2000	2000	2000	2000
	高 Height	mm	2200	2200	2200	2200	2200	2200
净重 Net Weight		kg	2860	3250	4200	4450	4850	5300
运行重量 Running Weight		kg	3020	3460	4430	4680	5120	5630



功能特点 SPECIAL FEATURES

水冷式螺杆冷水机，可用于塑胶、电镀、电子、化工、医疗、净化、食品、冶金等各个行业提供冷却系统配套及工程，同时也为商场、办公楼、酒店、医院等公共场所提供性能卓越的冷水系统，为客户创造安静、温度舒适的生活工作环境。

- 高效半封闭双螺杆压缩机，可以在 0% ~ 100% 范围内安全的实现阶段或无级能量调节，最大限度节约电力资源。
- 吸气冷却使电机运行温度低，电机寿命长。采用高质量轴承，轴承寿命至少 40000 小时。
- 内置式油分离器，体积更小，效果更好。运转部件少，故障率低。
- 冷凝器和蒸发器采用高效能壳管式换热器（可选配不锈钢板式换热器），内置高效换热齿牙管，设计合理，换热效果良好。
- 适用于 R22、R407c、R134a、R404A 等多种工质。
- 可选配经济器和配喷液冷却装置以进一步提高压缩机制冷量和效率并扩展压缩机的应用范围。

OUMAL chiller water cooled screw chiller adopts BITZER, HANBELL screw type compressor, high efficient copper condenser, evaporator and famous control components, which features compact size, low noise & vibration, high cooling capacity, easy operation and durability.

Water cooled screw chiller has single head series, double heads series and four heads series depend on cooling capacity. All this kind of water cooled screw chillers are used widely in plastic industry, electronics, plating, chemical industry, ultrasonic wave cooling, printing and others. TopChiller supplies water cooled screw chillers in various standard specifications, and customer screw chillers are also welcomed to match your special needs.

Advantages:

Cooling capacity control available at four steps (100%–75%–50%–25%), three steps (100%–66%–33%).

High efficiency, Environmental protection refrigerant R134a, R407c available for different ambient temperature.

SIEMENS PLC program control system, human-computer interface with big LED touch panel, running state displaying in multi-language, and self-diagnosis for easy operation and supervision.

Extended industrial interface, convenient for being computer monitor via network to realize remote control.

Multi-safety protection by high and low pressure, compressor overheating, overloading, over temperature, flow switch, phase sequence, phase-missing, exhaust overheating and anti-freezing.

参数表 Specification

水冷螺杆式冷水机 Water cooled screw chiller 单机头 Single Head									
参数 Item		型号 Model	OMC-40WSH	OMC-50WSH	OMC-60WSH	OMC-75WSH	OMC-85WSH	OMC-100WSH	OMC-120WSH
制冷量 Cooling Capacity		kcal/h	122980	161422	173376	231942	273308	321554	376594
		KW	143	187.7	201.6	269.7	317.8	373.9	437.9
		Ton	40.7	53.4	57.3	76.7	90.4	106.3	124.5
		Btu/h	488054.6	640614.3	688054.6	920477.8	1084641.6	1276109.2	1494539.2
输入功率 Input Power		KW	30.7	38.2	42.3	55.2	63.7	73.1	87.3
最大运行电流 Max.runningCurrent		A	81	103	112	144	166	194	234
电源 Power supply			3PH-380V/415V 50HZ(220V/440V 60HZ))						
制冷剂 Refrigerant	类型 Type		R22 (R407C)						
	充注量 Charge quantity	kg	28	35	42	53	60	70	85
	控制方式 Control Mode		外平衡感温式热力膨胀阀 Expansion Valve						
压缩机 Compressor	类型 Type		半封闭螺杆式 Semi-Hermetic Screw						
	功率 Power	KW	30.7	38.2	42.3	55.2	63.7	73.1	87.3
	启动方式 Start-up Mode		Y-△						
	能量调节范围 Capacity Control	%	0-25-50-75-100 (0-33-66-100)						
蒸发器 Evaporator	类型 Type		壳管式 Shell and Tube						
	冷却水流量 Cooling	m3/h	24.596	32.2844	34.6752	46.3884	54.6616	64.3108	75.3188
	管径 Pipe Diameter	Inch	3 "	3 "	3 "	3 "	4 "	4 "	4 "
冷凝器 Condenser	类型 Type		壳管式 Shell and Tube						
	冷却水流量 Cooling water flow	m3/h	29.8764	38.8548	41.9508	55.8828	65.618	76.884	90.3344
	管径 Pipe Diameter	Inch	3 "	3 "	3 "	3 "	4 "	4 "	4 "
安全保护装置 Safety Protection			压缩机过热保护, 过载保护, 高低压保护, 防冻保护, 电源逆相或缺相保护, 可熔栓, 水流开关Compressor over temperature protection, over load protection, high and low pressure protection, anti-freezing protection, reversed and lacking phase protection, fusible blug, flow switch						
尺寸 Dimension	长 Length	mm	1960	2130	2450	2450	2750	2750	2750
	宽 Width	mm	855	855	985	985	1050	1050	1050
	高 Height	mm	1540	1540	1600	1600	1600	1600	1730
净重 Net Weight		kg	820	950	1120	1300	1560	1720	2030
运行重量 Running Weight		kg	970	1060	1270	1480	1780	1960	2250

参数表 Specification

水冷螺杆式冷水机 Water cooled screw chiller 单机头 Single Head								
参数 Item		型号 Model	OMC-140WSH	OMC-160WSH	OMC-180WSH	OMC-200WSH	OMC-220WSH	OMC-240WSH
制冷量 Cooling Capacity	kcal/h		448318	509808	576630	683356	745190	811066
	KW		521.3	592.8	670.5	794.6	866.5	943.1
	Ton		148.2	168.6	190.6	225.9	246.4	268.2
	Btu/h		1779181	2023208	2288396	2711945	2957338	3218771
输入功率 Input Power	KW		100.9	119	132.2	153.8	172.3	183
最大运行电流 Max.running Current	A		272	312	352	392	432	480
电源 Power supply			3PH-380V/415V 50HZ(220V/440V 60HZ))					
制冷剂 Refrigerant	类型 Type		R22 (R407C)					
	充注量 Charge quantity	kg	98	112	126	140	154	168
	控制方式 Control Mode		外平衡感温式热力膨胀阀 Expansion Valve					
	类型 Type		半封闭螺杆式 Semi-Hermetic Screw					
压缩机 Compressor	功率 Power	KW	100.9	119	132.2	153.8	172.3	183
	启动方式 Start-up Mode		Y-△					
	能量调节范围 Capacity Control	%	0-25-50-75-100 (0-33-66-100)					
蒸发器 Evaporator	类型 Type		壳管式 Shell and Tube					
	冷冻水流量 Chilled water flow	m3/h	89.6636	101.9616	115.326	136.6712	149.038	162.2132
	管径 Pipe Diameter	Inch	5 "	5 "	6 "	6 "	6 "	6 "
冷凝器 Condenser	类型 Type		壳管式 Shell and Tube					
	冷却水流量 Cooling water flow	m3/h	107.0184	122.4296	138.0644	163.1248	178.6736	193.6892
	管径 Pipe Diameter	Inch	5 "	5 "	6 "	6 "	6 "	6 "
安全保护装置 Safety Protection			压缩机过热保护, 过载保护, 高低压保护, 防冻保护, 电源逆相或缺相保护, 可熔栓, 水流开关 Compressor over temperature protection, over load protection, high and low pressure protection, anti-freezing protection, reversed and lacking phase protection, fusible plug, flow switch					
尺寸 Dimension	长 Length	mm	2750	3460	3460	3460	3460	3460
	宽 Width	mm	1050	1250	1350	1350	1350	1550
	高 Height	mm	1730	1730	1760	1760	1760	1820
净重 Net Weight		kg	2200	2410	2630	2950	3050	3160
运行重量 Running Weight		kg	2430	2470	2920	3210	3270	3420

参数表 Specification

水冷螺杆式冷水机 Water cooled screw chiller 双机头 Double Head								
参数 Item		型号 Model	OMC-100WDH	OMC-120WDH	OMC-150WDH	OMC-170WDH	OMC-200WDH	OMC-240WDH
制冷量 Cooling Capacity	kcal/h		322844	346752	463884	546616	643108	753188
	KW		375.4	403.2	539.4	635.6	747.8	875.8
	Ton		106.7	114.6	153.4	180.7	212.6	249.0
	Btu/h		1281229	1376109	1840956	2169283	2552218	2989078
输入功率 Input Power	KW		38.2 x 2	42.3 x 2	55.2 x 2	63.7 x 2	73.1 x 2	87.3 x 2
最大运行电流 Max.running Current	A		206	224	288	332	388	468
电源 Power Supply			3PH-380V/415V 50HZ(220V/440V 60HZ)					
制冷剂 Refrigerant	类型 Type		R22 (R407C)					
	充注量 Charge quantity	kg	70	85	105	119	140	168
	控制方式 Control Mode		外平衡感温式热力膨胀阀 Expansion Valve					
压缩机 Compressor	类型 Type		半封闭螺杆式 Semi-Hermetic Screw					
	功率 Power	KW	38.2 x 2	42.3 x 2	55.2 x 2	63.7 x 2	73.1 x 2	87.3 x 2
	启动方式 Start-up Mode		Y-Δ					
	能量调节范围 Capacity Control	%	0-25-50-75-100 (0-33-66-100)					
蒸发器 Evaporator	类型 Type		壳管式 Shell and Tube					
	冷冻水流量 Chilled water flow	m ³ /h	64.6	69.4	92.8	109.3	128.6	150.6
	管径 Pipe Diameter	Inch	4"	4"	5"	5"	6 "	6 "
冷凝器 Condenser	类型 Type		壳管式 Shell and Tube					
	冷却水流量 Cooling water flow	m ³ /h	77.7	84.0	111.8	131.2	153.7	180.6
	管径 Pipe Diameter	Inch	4"	4"	5"	4" x 2	4 " x 2	4 " x 2
安全保护装置 Safety Protection			压缩机过热保护, 过载保护, 高低压保护, 防冻保护, 缺相或逆相保护, 可熔栓, 水流开关 Compressor over temperature protection, over load protection, high and low pressure protection, anti-freezing protection, reversed and lacking phase protection, fusible plug, flow switch					
尺寸 Dimension	长 Length	mm	3000	3200	3460	3460	3460	3750
	宽 Width	mm	1050	1050	1250	1350	1550	1320
	高 Height	mm	1600	1730	1730	1760	1820	2150
净重 Net Weight		kg	1960	2250	2830	2950	3160	4230
运行重量 Running Weight		kg	2200	2500	2920	3210	3420	4560

参数表 Specification

水冷螺杆式冷水机 Water cooled screw chiller 双机头 Double Head								
参数 Item		型号 Model	OMC-280WDH	OMC-320WDH	OMC-360WDH	OMC-400WDH	OMC-440WDH	OMC-480WDH
制冷量 Cooling Capacity	kcal/h		896636	1019616	1153260	1366712	1490380	1622132
	KW		1042.6	1185.6	1341	1589.2	1733	1886.2
	Ton		296.4	337.1	381.3	451.9	492.7	536.3
	Btu/h		3558362	4046416	4576792	5423891	5914676	6437543
输入功率 Input Power	KW		100.9 x 2	119 x 2	132.2 x 2	153.8 x 2	172.3 x 2	183 x 2
最大运行电流 Max.running Current	A		544	624	704	808	960	1084
电源 Power Supply			3PH-380V/415V 50HZ(220V/440V 60HZ))					
制冷剂 Refrigerant	类型 Type		R22 (R407C)					
	充注量 Charge quantity	kg	196	224	252	280	308	336
	控制方式 Control Mode		外平衡感温式热力膨胀阀 Expansion Valve					
压缩机 Compressor	类型 Type		半封闭螺杆式 Semi-Hermetic Screw					
	功率 Power	KW	100.9 x 2	119 x 2	132.2 x 2	153.8 x 2	172.3 x 2	183 x 2
	启动方式 Start-up Mode		Y-Δ					
	能量调节范围 Capacity Control	%	0-25-50-75-100 (0-33-66-100)					
蒸发器 Evaporator	类型 Type		壳管式 Shell and Tube					
	冷冻水流量 Chilled water flow	m ³ /h	179.3	203.9	230.7	273.3	298.1	324.4
	管径 Pipe Diameter	Inch	6"	6"	8"	8"	8 "	8 "
冷凝器 Condenser	类型 Type		壳管式 Shell and Tube					
	冷却水流量 Cooling water flow	m ³ /h	214.0	244.8	276.2	326.2	357.4	387.4
	管径 Pipe Diameter	Inch	5" x 2	5" x 2	6" x 2	6" x 2	6 " x 2	6 " x 2
安全保护装置 Safety Protection			压缩机过热保护, 过载保护, 高低压保护, 防冻保护, 缺相或逆相保护, 可熔栓, 水流开关 Compressor over temperature protection, over load protection, high and low pressure protection, anti-freezing protection, reversed and lacking phase protection, fusible plug, flow switch					
尺寸 Dimension	长 Length	mm	3750	3750	4230	4230	4230	4420
	宽 Width	mm	1320	1320	1580	1580	1580	1760
	高 Height	mm	2150	2150	2230	2230	2230	2360
净重 Net Weight	kg		4230	4730	5380	5810	5920	6450
运行重量 Running Weight	kg		4560	5150	5860	6050	6330	6730



功能特点 SPECIAL FEATURES

- 水冷式低温螺杆冷水机是针对冷冻、冷藏及工业冷却等需低温处理的生产工艺自行开发设计、生产的系列产品。适用范围：电镀、电子、真空、化工、医疗、冶金、建筑、食品加工、冷藏及各种特殊低温要求的工业、商业冷却系统。
- 型号齐全，冷冻水出水温度范围为 $-30^{\circ}\text{C} \sim 0^{\circ}\text{C}$ ，满足不同冷量、温度需求的使用场所。
- 智能：用智慧型微电脑触摸屏控制系统，提供最周到的服务与最简易的维修资讯，并可接驳用户中央控制系统，全方位监控机组运行。
- 高效：螺杆压缩机匹配优质冷凝器与蒸发器。所有产品通过国家级检测系统测试，符合国家标准。
- 安全：具备机组运行安全保护措施，保证机组运行及客户使用安全；机组提供多项保护装置，性能稳定、噪音低、使用寿命长。

Advantages:

Water cooled screw glycol chillers features top brand semi-hermetic screw compressor such as Germany Bitzer & Taiwan Hanbell brand. Same as other water chillers with screw compressor, water cooled screw glycol chillers are also equipped with Siemens PLC and 10-inch touch screen, 4-grade capacity control for minimizing compact to electricity grid. Minimum cooling water temperature -30°C .

Bitzer/Hanbell semi-hermetic screw compressor, 4 grade capacity control to minimize the impact to power network Danfoss/Alco thermal components.

Schneider electricity parts, Siemens programable logic controller.

10 inch touch screen user-friendly interface.

Uniquely designed shell and tube condensers.

Rationally structured shell and tube evaporator, avoid blockage to the maximum.

Reserved port for chilled water pump control.

Optional Features:

Complete corrosion resistance water loop for brine coolant application.

Remote control for distance operation.

Central integrated control for multi-units.

Plate type evaporator and condenser to get more compact unit size (only recommend for high water quality application)

Flooded shell and tube evaporator.

参数表 Specification

水冷式工业冷水机Industrial water cooled scroll chiller 单机头 Single Head													
参数 Item			型号 Model	OMC-40WDL	OMC-50WDL	OMC-60WDL	OMC-70WDL	OMC-80WDL	OMC-100WDL	OMC-120WDL	OMC-140WDL	OMC-160WDL	OMC-180WDL
名义制冷量 Nominal cooling capacity		温度 Temp	-10℃	71.7	94.1	102.5	124.9	137.1	186.9	222.7	265.9	307.4	345.7
			-20℃	49.9	64.2	71	85.5	95.8	127.9	152.1	180.8	211.1	235.4
			-30℃	30.8	40.1	44.3	53.4	59.9	79.9	95.0	112.9	131.9	147.0
输入功率 Input Power		KW	35.7	45.4	50.8	59.4	66.8	88	104.8	123.8	145.4	162.4	
电源 Power Supply			3PH-380V/415V 50HZ(220V/440V 60HZ))										
制冷剂 Refrigerant		类型 Type	R22 (R404A)										
		控制方式 Control Mode	外平衡感温式热力膨胀阀 Expansion Valve										
压缩机 Compressor	类型 Type		半封闭螺杆式 Semi-Hermetic Screw										
	功率 Power	KW	35.7	45.4	50.8	59.4	66.8	88	104.8	123.8	145.4	162.4	
	启动方式 Start-up Mode		Y-△										
	能量调节范围 Capacity Control	%											
蒸发器 Evaporator	类型 Type	温度 Temp		壳管式 Shell and Tube									
	冷冻水流量 Chilled water flow	-10℃	m³/h	12.3	16.2	17.6	21.5	23.6	32.1	38.3	45.7	52.9	59.5
		-20℃		8.6	11.0	12.2	14.7	16.5	22.0	26.2	31.1	36.3	40.5
		-30℃		5.3	6.9	7.6	9.2	10.3	13.7	16.3	19.4	22.7	25.3
	管径 Pipe Diameter	Inch		3"	3"	3"	3"	4"	4"	4"	5"	5"	6"
冷凝器 Condenser	类型 Type		壳管式 Shell and Tube										
	冷却水流量 Cooling water flow	m³/h	37.1	48.0	52.6	63.2	77.7	94.3	112.3	133.6	141.1	155.2	
	管径 Pipe Diameter	Inch	3"	3"	3"	3"	4"	4"	4"	5"	5"	6"	
安全保护装置 Safety Protection			压缩机过热保护, 过载保护, 高低压保护, 防冻保护, 缺相或逆向保护, 可熔栓, 水流开关 Compressor overheating protection, over-current protection, high and low pressure protection, over-temperature protection, flow protection, reversed and lacking phase protection, exhaust overheating protection.										
尺寸 Dimension	长 Length	mm	1960	2130	2450	2450	2750	2750	2750	2750	3460	3460	
	宽 Width	mm	855	855	985	985	1050	1050	1050	1050	1250	1350	
	高 Height	mm	1540	1540	1600	1600	1600	1600	1730	1730	1730	1760	
净重 Net Weight		kg	820	950	1120	1300	1560	1720	2030	2200	2410	2630	
运行重量 Running Weight		kg	970	1060	1270	1480	1780	1960	2250	2430	2470	2920	

参数表 Specification

水冷式工业冷水机Industrial water cooled scroll chiller 双机头 Double Head														
参数 Item			型号 Model	OMC-80WDL	OMC-100WDL	OMC-120WDL	OMC-140WDL	OMC-170WDL	OMC-200WDL	OMC-240WDL	OMC-280WDL	OMC-300WDL	OMC-320WDL	OMC-360WDL
名义制冷量 Nominal cooling capacity		温度 Temp	-10℃	143.4	188.2	205	249.8	310	373.8	445.4	531.8	561.6	614.8	691.4
			-20℃	98.8	128.4	142	171	220	255.8	304.2	361.6	381.6	422.2	470.8
			-30℃	61.6	80.2	88.6	106.8	139.0	159.8	190.0	225.8	238.4	263.8	294.0
输入功率 Input Power			KW	71.4	90.8	101.6	118.8	143	176	209.6	247.6	261.4	290.8	324.8
电源 Power Supply				3PH-380V/415V 50HZ(220V/440V 60HZ))										
制冷剂 Refrigerant		类型 Type		R22 (R404A)										
		控制方式 Control Mode		外平衡感温式热力膨胀阀 Expansion Valve										
压缩机 Compressor	类型 Type			半封闭螺杆式 Semi-Hermetic Screw										
	功率 Power		KW	71.4	90.8	101.6	118.8	143	176	209.6	247.6	261.4	290.8	324.8
	启动方式 Start-up Mode			Y-△										
	能量调节范围Capacity Control		%	0-25-50-75-100 (0-33-66-100)										
蒸发器 Evaporator	类型 Type		Temp	壳管式 Shell and Tube										
	冷冻水流量 Chilled water flow	-40℃	m³/h	24.7	32.4	35.3	43.0	53.3	64.3	76.6	91.5	96.6	105.7	118.9
		-20℃		17.0	22.1	24.4	29.4	37.8	44.0	52.3	62.2	65.6	72.6	81.0
		-30℃		10.6	13.8	15.2	18.4	23.9	27.5	32.7	38.8	41.0	45.4	50.6
	管径 Pipe Diameter		Inch	4"	4"	4"	5"	5"	6"	6"	6"	6"	6"	8"
冷凝器 Condenser	类型 Type			壳管式 Shell and Tube										
	冷却水流量 Cooling water flow		m³/h	37.1	48.0	52.6	63.2	77.7	94.3	112.3	133.6	141.1	155.2	174.2
	管径 Pipe Diameter		Inch	4"	4"	4"	5"	5"	6"	6"	5" x 2	5" x 2	5" x 2	6" x 2
安全保护装置 Safety Protection				压缩机过热保护, 过载保护, 高低压保护, 防冻保护, 缺相或逆向保护, 可熔栓, 水流开关 Compressor over temperature protection, over load protection, high and low pressure protection, anti-freezing protection, reversed and lacking phase protection, fusible blug, flow switch										
尺寸 Dimension	长 Length		mm	2750	2750	2750	2750	3460	3460	3460	3750	3750	3750	4230
	宽 Width		mm	1050	1050	1050	1050	1250	1350	1550	1320	1320	1320	1580
	高 Height		mm	1600	1600	1730	1730	1730	1760	1820	2150	2150	2150	2230
净重 Net Weight			kg	1760	1920	2230	2500	2650	1950	3160	4230	4360	4730	5380
运行重量 Running Weight			kg	1980	2200	2470	2760	2890	3180	3400	4480	4600	4980	5600

冷却水塔 Cooling Tower



功能特点 SPECIAL FEATURES

- 电机：选用世界名牌西门子全封闭超低噪音电机，该电机绝缘等级为 F 级，防护等级为 IP55，效率高、使用寿命长、耐高温、适应电压变化能力强，能充分保证冷却塔的使用寿命和运行效果。
- 风机：选用大弦孤、低转速、大风量、高强铝合金静音型风机是普通铝合金板的 6-7 倍，精度保持性能良好；同时也具有重量轻、效率高、节能、平衡好、震动小、安全稳定、使用寿命长等优点。
- 传动：所用轴承选用 NSK 或 NTN 标准轴承，使用寿命长，不易损坏；皮带选用日本三星防水防滑型皮带，强度高、耐磨损、寿命长。
- 玻璃钢：选用台湾进口优质玻璃纤维毡和树脂合成，其抗拉强度高，硬度大，使用寿命约为 30 年以上，比常规玻璃纤维布及树脂合成玻璃钢制品使用寿命约长 10 年。
- 填料：选用无色透明新生 PVC 胶片，该种胶片的特点是亲水性好、强度高、耐高温和低温、抗老化性好、使用寿命长、绝对阻燃，该 PVC 胶片在 70℃ 的热水中，30 分钟不会变形，在 58.5℃ 的热水中，长期不会变形，所以这种材料对于提高冷却效率，延长冷却塔寿命有很大的益处。填料具散热、导风、收水伞合一功能，既确保了填料制冷交换效果，又降低了飞水损失。
- 钢架：采用国标优质角钢和槽钢等型材制成，强度高，耐久性好；并且所有钢支架均经过严格的热浸镀锌处理，防腐效果好，延长冷却塔使用寿命，

Advantages:

OUMAL cooling tower is suitable for air conditioning cooling system. Refrigeration systems, plastics, electroplating, chemical, ceramics and agricultural science and technology and nurseries.

OUMAL Cooling tower made of high quality PVC film. Cellular fan pattern is strongly enhanced hot swap capacity, and can withstand temperature up to 56°C, ensure that the water tower dry cooling performance up to the optimum level, green and high temperature film are optional.

Fan: axial fans. High grade plastic or aluminum alloy, each fan from the former factory have to undergo a rigorous professional positioning and balance tests.

All metal main parts are made of original thick steel, hot-dip zinc anti-rust treatment by international standards. Stainless steel fittings are also available.

OUMAL cooling towers housing are anti-acid and alkali-resistant high-grade glass fiber reinforced materials. All pipes and water spray equipment are made of high-grade plastic, without lubrication to ensure the durability of the material.

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