

# Air-Cooled Chillers

## 风冷式冷水机



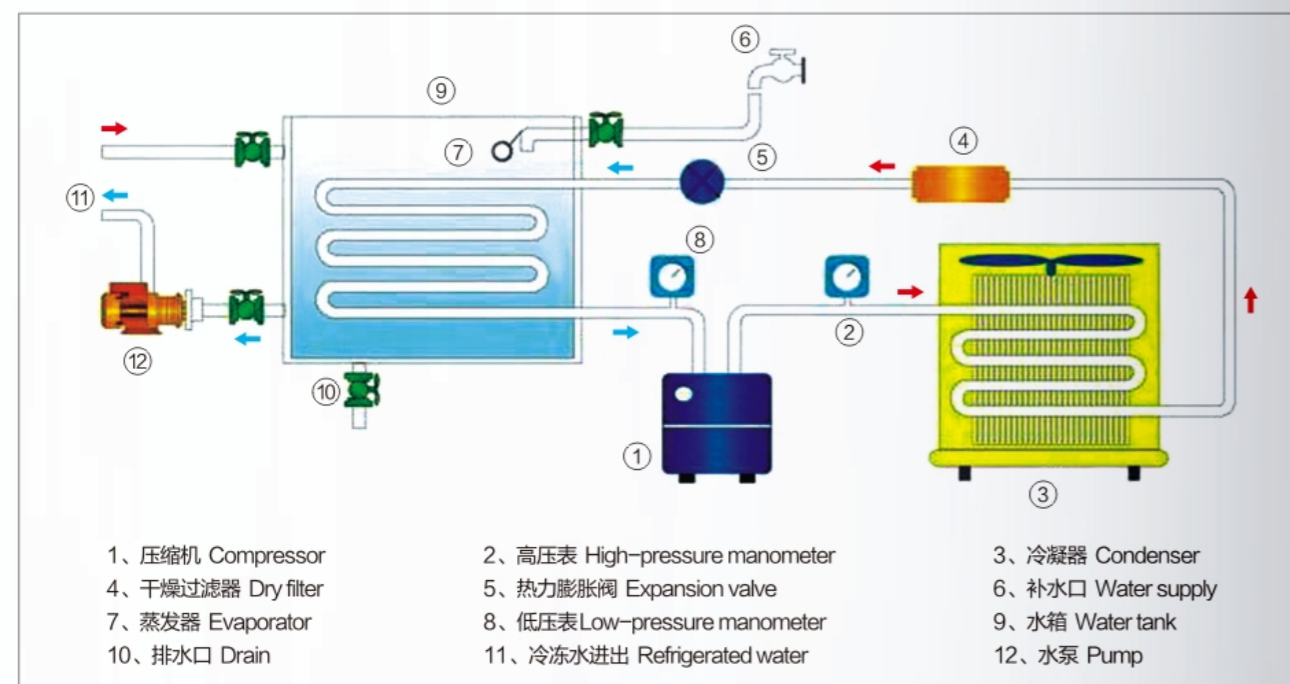
### 特点 Features

- 采用进口高品质压缩机及进口水泵，安全宁静、省电耐用。
- 采用全电脑温控器，操作简洁，能准确地控制水温在3℃至45℃。
- 冷凝器及散热器设计独特，换热效果更佳。
- 有电流过载保护，高低压控制及电子式时间延迟安全装置，当发生故障时及时发出警报及显示故障原因。
- 内置不锈钢保温水箱，经久耐用，清洗方便。
- 设有逆相欠相保护和防冰保护。
- 超低温型冷水机温度可达-60℃以下。
- 此系列冷水机可订做耐酸碱式。
- To adopt imported superb compressors and pumps to ensure safe & quiet running , power saving and durable service life.
- To employ microcomputer with easy operation which can control temperature within 3℃ to 45℃ precisely.
- Unique design for condenser and heat- dispersion unit result in excellent heat-exchange effect.
- To equip with electrical current overload protection, high & low-pressure switch, electronic timer delay safety device. It will alarm to display faulty while any malfunction occurs.
- To adopt with internal stainless steel insulated water tank with durable service life for easy cleaning & maintenance.
- Complete safety devices including power reverse phase & power short phase and anti-freeze protection.
- Ultra low temperature type of chillers can reach below -60℃ .
- Chillers for anti-alkaline & anti-acid type can be customized.

风冷式采用翅片式冷凝器，导热快，散热效果佳，无需提供冷却水。可提供5~45℃，低温型更可低至3℃的冰水(温差不超过±1℃)，压缩机功率从3HP~50HP，制冷量能力可达7800~128500 Kcal/hr。

Air Chillers adopt fin condensers (without need of cooling water) with the features of rapid heat transmission and excellent heat dispersion. This series can be afforded cooling ranges from 5~45℃, even lower to 3℃ (temperature controlled accuracy at ±1℃). The compressors' power range from 3HP~50HP and cooling capacities range from 7800~128500 Kcal/hr.

### 产品结构图 Product Structure Diagram



### 风冷盘管式冷水机规格表 Air Chillers Spiral Type

产品型号 Model	LC-5A	LC-8A	LC-10A	LC-15A	LC-20A	LC-30A	LC-40A	LC-50A
制冷量 Cooling Capacity(W)	15000	24000	30000	45000	60000	90000	120000	150000
压缩机数量 Number of Compressors (台 Set)	1	2	2	3	2	2	4	4
压缩机总功率 Compressor Total Power(HP)	5	8	10	15	20	30	40	50
使用冷媒 Refrigerant	R22	R22	R22	R22	R22	R22	R22	R22
蒸发器类型 Evaporator Type	盘管式 Spiral type							
蒸发器进出水口径 Evaporator Inlet/outlet Size	DN25	DN40	DN40	DN50	DN50	DN65	DN80	DN80
冷凝器类型 Condenser Type	翅片式 Finned							
散热风机数量 Number of Fan	2	2	2	2	2	3	4	4
单个风扇功率 Single Fan Power (KW)	0.18	0.25	0.25	0.45	0.78	0.78	0.78	1
冷水进出口数量 Number of Cooling Water Inlet/outlet (组 Group)	1	1	1	1	1	1	1	1
冷水进出口口径 Cooling Water Inlet/outlet Size	DN25	DN40	DN40	DN50	DN50	DN65	DN80	DN80
水箱容量 Water Tank Capacity ( L )	67	145	145	200	245	300	350	400
水泵功率 Pump Power ( HP )	0.5	1	1	2	2	3	5	5
水泵流量 Pump Flow (L/min)	100	200	200	360	360	650	700	700
水泵扬程 Pump Lifts ( M )	22	13	13	15	15	16	16	16
系统电源 Power Supply ( V )	AC380V/3P/50HZ							
控制电源 Control Voltage ( V )	AC220V1P							
机器总功率 Total Power ( KW )	4.5	7.3	8.8	13.7	18.1	27.1	36.9	45.3
电源线规格 Wires Specifications (mm <sup>2</sup> )	4X4		4X6		4X10		4X16	
电源线长度 Wires Length (M)	选配 Option							
外观尺寸 Dimensions LxWxH(CM)	125X63X124	150X73X140	150X73X140	168X83X167	185X85X175	265X85X175	260X200X90	260X200X110
机器重量 Weight (Kg)	170	350	450	650	840	980	1200	1500

### 风冷壳管式冷水机规格表 Air Chillers Tube-in-shell Type

产品型号 Model	LC-3A	LC-4A	LC-5A	LC-8A	LC-10A	LC-15A	LC-20A	
制冷量 Cooling Capacity(W)	9000	12000	15000	24000	30000	45000	60000	
压缩机数量 Number of Compressors (台 Set)	1	1	1	2	2	3	2	
压缩机总功率 Compressor Total Power(HP)	3	4	5	8	10	15	20	
使用冷媒 Refrigerant	R22	R22	R22	R22	R22	R22	R22	
蒸发器类型 Evaporator Type	壳管式 Tube-in-shell type							
蒸发器进出水口径 Evaporator Inlet/outlet Size	—	—	—	—	—	—	—	
冷凝器类型 Condenser Type	翅片式 Finned							
散热风机数量 Number of Fan	2	2	2	2	2	2	2	
单个风扇功率 Single Fan Power (KW)	0.15	0.18	0.18	0.25	0.25	0.45	0.78	
冷水进出口数量 Number of Cooling Water Inlet/outlet (组 Group)	1	1	1	1	1	1	1	
冷水进出口口径 Cooling Water Inlet/outlet Size	DN25	DN25	DN25	DN40	DN40	DN50	DN50	
水泵功率 Pump Power ( HP )	0.5	0.5	0.5	1	1	2	2	
水泵流量 Pump Flow (L/min)	100	100	100	200	200	360	360	
水泵扬程 Pump Lifts (M)	22	22	22	23	13	15	15	
系统电源 Power Supply ( V )	AC380V/3P/50HZ							
控制电源 Control Voltage ( V )	AC220V1P							
机器总功率 Total Power ( KW )	2.9	3.7	4.5	7.3	8.8	13.7	18.1	
电源线规格 Wires Specifications (mm <sup>2</sup> )	4X2.5		4X4		4X6		4X10	
电源线长度 Wires Length (M)	0							
外观尺寸 Dimensions LxWxH(CM)	115X53X124	125X63X124	125X63X124	150X73X140	150X73X140	168X83X167	185X85X175	
机器重量 Weight (Kg)	130	155	170	350	450	650	840	

# Water-Cooled Chillers

## 水冷式冷水机



### 特点 Features

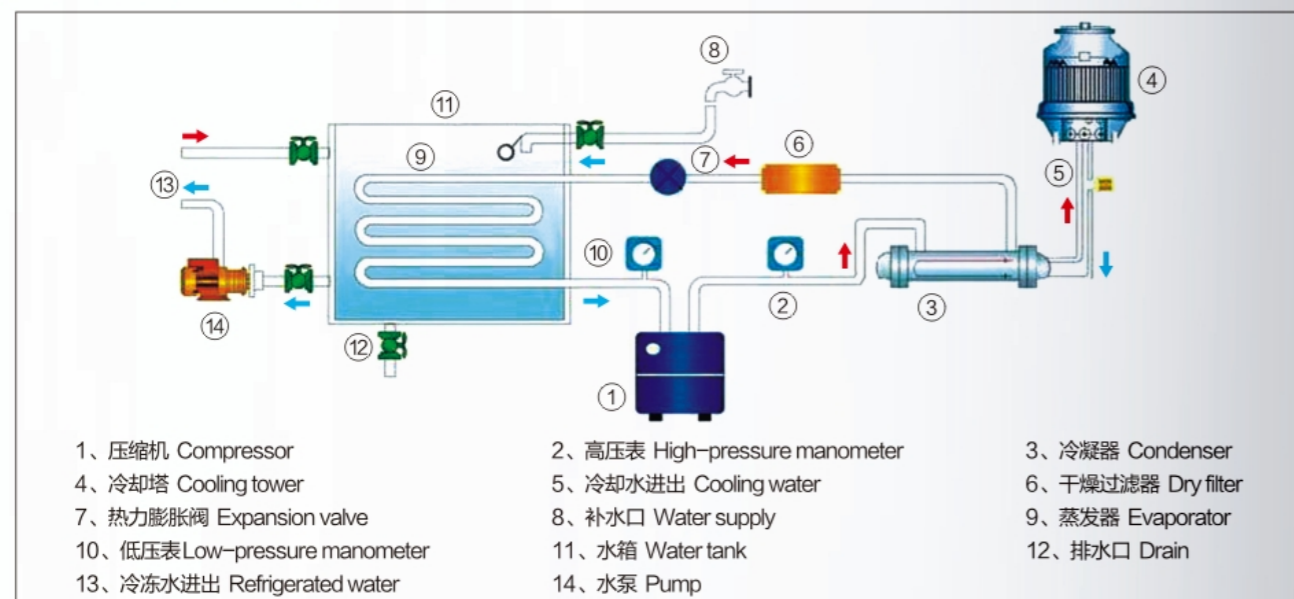
- 采用进口高品质压缩机及进口水泵，安全宁静、省电耐用。
- 采用全电脑温控器，操作简洁，能准确地控制水温在3℃至45℃。
- 冷凝器及散热器设计独特，换热效果更佳。
- 有电流过载保护，高低压控制及电子式时间延迟安全装置，当发生故障时及时发出警报及显示故障原因。
- 内置不锈钢保温水箱，经久耐用，清洗方便。
- 设有逆相欠相保护和防冰保护。
- 超低温型冷水机温度可达-60℃以下。
- 此系列冷水机可订做耐酸碱式。

- To adopt imported superb compressors and pumps to ensure safe & quiet running, power saving and durable service life.
- To employ microcomputer with easy operation which can control temperature within 3℃ to 45℃ precisely.
- Unique design for condenser and heat- dispersion unit result in excellent heat-exchange effect.
- To equip with electrical current overload protection, high & low-pressure switch, electronic timer delay safety device. It will alarm to display faulty while any malfunction occurs.
- To adopt with internal stainless steel insulated water tank with durable service life for easy cleaning & maintenance.
- Complete safety devices including power reverse phase & power short phase and anti-freeze protection.
- Ultra low temperature type of chillers can reach below -60℃.
- Chillers for anti-alkaline & anti-acid type can be customized.

水冷式采用壳管式冷凝器，导热快，散热效果佳。可提供5~45℃，低温型更可低至-60℃的冰水(温差不超过±1℃)，压缩机功率从3HP~50HP，制冷量能力可达7800~128500 Kcal/hr。

Water Chillers adopt shell-shape condensers with the features of rapid heat transmission and excellent heat dispersion. This series can be afforded cooling ranges from 5~45℃, even lower to -60℃ (temperature controlled accuracy at ±1℃). The compressors' power range from 3HP~50HP and cooling capacities range from 7800~ 128500 Kcal/hr.

### 产品结构图 Product Structure Diagram



### 水冷盘管式冷水机规格表 Water Chillers Spiral Type

产品型号 Model	LC-5W	LC-8W	LC-10W	LC-15W	LC-20W	LC-25W	LC-30W	LC-40W	LC-50W
制冷量 Cooling Capacity(W)	15000	24000	30000	45000	60000	75000	90000	120000	150000
压缩机数量 Number of Compressors (台 Set)	1	2	2	3	2	2	2	4	4
压缩机总功率 Compressor Total Power(HP)	5	8	10	15	20	25	30	40	50
使用冷媒 Refrigerant	R22								
蒸发器类型 Evaporator Type	盘管式 Spiral type								
蒸发器进出水口径 Evaporator Inlet/outlet Size	DN25	DN40	DN40	DN50	DN50	DN65	DN65	DN80	DN80
冷凝器类型 Condenser Type	壳管式 Tube-in-shell Style								
冷凝器散热水口径 Condenser inlet/outlet Size	DN25	DN40	DN40	DN50	DN50	DN65	DN65	DN80	DN80
冷水进出口数量 Number of Cooling Water Inlet/outlet (组 Group)	1	1	1	1	1	1	1	1	1
冷水进出口口径 Cooling Water Inlet/outlet Size	DN25	DN40	DN40	DN50	DN50	DN65	DN65	DN80	DN80
水箱容量 Water Tank Capacity (L)	60	140	140	200	220	250	270	360	500
水泵功率 Pump Power (HP)	0.5	1	1	2	2	3	3	5	5
水泵流量 Pump Flow (L/min)	100	200	200	360	360	650	650	700	700
水泵扬程 Pump Lifts (M)	22	13	13	15	15	16	16	16	16
系统电源 Power Supply (V)	AC380V/3P/50HZ								
控制电源 Control Voltage (V)	AC220V1P								
机器总功率 Total Power (KW)	4.2	6.8	8.3	12.8	16.5	21	24.8	33.8	41.3
电源线规格 WiresSpecifications (mm <sup>2</sup> )	4X4			4X6	4X10	4X16	4X25		
电源线长度 Wires Length (M)	0						选配 Option		
外观尺寸 Dimensions LxWxH(CM)	87X55X100	130X65X135	130X65X135	170X65X135	165X70X140	180X75X145	180X75X140	185X80X170	200X80X170
机器重量 Weight (Kg)	160	430	460	540	720	780	880	1030	1450

### 水冷壳管式冷水机规格表 Water Chillers Tube-in-shell Type

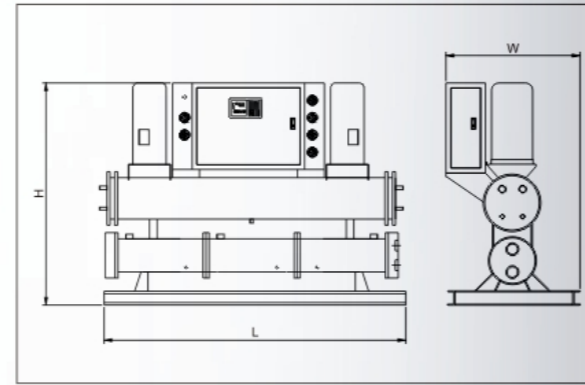
产品型号 Model	LC-3W	LC-4W	LC-5W	LC-8W	LC-10W	LC-15W	LC-20W	LC-25W
制冷量 Cooling Capacity(W)	9000	12000	15000	24000	30000	45000	60000	75000
压缩机数量 Number of Compressors (台 Set)	1	1	1	2	2	3	2	2
压缩机总功率 Compressor Total Power(HP)	3	4	5	8	10	15	20	25
使用冷媒 Refrigerant	R22							
蒸发器类型 Evaporator Type	盘管式 Spiral type							
蒸发器进出水口径 Evaporator Inlet/outlet Size	---							
冷凝器类型 Condenser Type	壳管式 Tube-in-shell Style							
冷凝器散热水口径 Condenser inlet/outlet Size	DN25	DN25	DN25	DN40	DN40	DN50	DN50	DN65
冷水进出口数量 Number of Cooling Water Inlet/outlet (组 Group)	1	1	1	1	1	1	1	1
冷水进出口口径 Cooling Water Inlet/outlet Size	DN25	DN25	DN25	DN40	DN40	DN50	DN50	DN65
水泵功率 Pump Power (HP)	0.5	0.5	0.5	1	1	2	2	3
水泵流量 Pump Flow (L/min)	100	100	100	200	200	360	360	650
水泵扬程 Pump Lifts (M)	22	22	22	13	13	15	15	16
系统电源 Power Supply (V)	AC380V/3P/50HZ							
控制电源 Control Voltage (V)	AC220V 1P							
机器总功率 Total Power (KW)	2.7	3.4	4.2	6.8	8.3	12.8	16.5	21
电源线规格 WiresSpecifications (mm <sup>2</sup> )	4X25			4X4	4X6	4X10		
电源线长度 Wires Length (M)	0						选配 Option	
外观尺寸 Dimensions LxWxH(CM)	87X55X100	87X55X100	87X55X100	130X65X135	130X65X135	175X65X135	210X70X140	210X70X140
机器重量 Weight (Kg)	120	150	160	430	460	540	720	780

# Water Chillers (Open Type)

## 水冷开放式冷水机



产品结构图 Product Structure Diagram



### 特点 Features

- 采用进口高品质压缩机，安全宁静、省电耐用。
- 采用全电脑温控器，操作简洁，能准确地控制水温在3°C至45°C。
- 冷凝器及散热器设计独特，换热效果更佳。
- 有电流过载保护，高低压控制及电子式时间延迟安全装置，当发生故障时及时发出警报及显示故障原因。
- 设有逆相欠相保护和防冰保护。
- 超低温型冷水机温度可达-60°C以下。
- 此系列冷水机可订做耐酸碱式。

- To adopt imported superb compressors to ensure safe & quiet running , power saving and durable service life.
- To employ microcomputer with easy operation which can control temperature within 3°C to 45°C precisely.
- Unique design for condenser and heat- dispersion unit result in excellent heat-exchange effect.
- To equip with electrical current overload protection, high & low-pressure switch, electronic timer delay safety device. It will alarm to display faulty while any malfunction occurs.
- Complete safety devices including power reverse phase & power short phase and anti-freeze protection.
- Ultra low temperature type of chillers can reach below -60°C .
- Chillers for anti-alkaline & anti-acid type can be customized.

### 规格表 Specification Sheet

产品型号 Model	LC-3W	LC-5W	LC-8W	LC-10W	LC-15W	LC-20W	LC-30W	LC-40W	LC-50W
制冷量 Cooling Capacity(W)	9000	15000	24000	30000	40000	60000	90000	120000	150000
压缩机数量(台 Set) Number of Compressors	1	1	2	2	3	2	2	4	4
压缩机总功率 Compressor Total Power(HP)	3	5	8	10	15	20	30	40	50
使用冷媒 Refrigerant	R22								
蒸发器类型 Evaporator Type	壳管式 Tube-in-shell Style								
蒸发器进出口口径 Evaporator Inlet/outlet Size	1 1/2"		2"			2 1/2"			
冷凝器类型 Condenser Type	壳管式 Tube-in-shell Style								
冷凝器散热水口径 Condenser Inlet/outlet Size	1 1/2"		2"			2 1/2"			
冷水进出口数量 Number of Cooling Water Inlet/outlet (组 Group)	1								
冷水进出口口径 Cooling Water Inlet/outlet Size	1 1/2"		2"			2 1/2"			
水泵功率 Pump Power ( HP )	选配 Option								
系统电源 Power Supply ( V )	AC380V/3PH/50HZ								
控制电源 Control Voltage ( V )	AC220V/1PH								
外观尺寸 Dimensions LxWxH(CM)	80*50*110	80*50*110	120*60*125	120*60*130	155*60*130	180*60*130	195*60*130	240*75*130	240*75*130
机器重量 Weight (Kg)	110	150	220	250	300	450	500	600	760

# Low Temperature Chiller

## 低温冷水机



### 特点 Features

乐畅牌低温冷水机组根据不同温度要求大致分为H(高温),M(中温), L(低温)三个系列, 其冷媒蒸发温度分别为-10°C, -20°C, -50°C, 不同系列机组所配置的压缩机及其他零配件均有不同, 同一压缩机在不同工况下所产生的能力也不相同, 因此选型时应找准相应工况所对应的设备系列。为防止蒸发系统的冻水结冰, 冻水系统必须添加乙二醇溶液, 乙二醇的浓度不得低于20% (H系列), 30% (M系列) 或40% (L系列), 以保障冷水机组的正常运转。根据客户的特殊要求, 可定制于-60°C蒸发温度的机组。

Lechang series of low-temperature water chiller can be divided into three series: H(high temperature), M(media temperature), L(low temperature) which evaporating temperature is -10°C/-20°C/-50°C. Different compressors and other parts make up different series of chillers. The same compressor in different conditions is not the same, so choose the proper chillers according to the detailed requirements. In order to prevent the frozen of water , ethylene glycol needs to be added to the cooling system. The concentration of ethylene glycol can not be less than 20%(H), 30%(M), 40%(L) in order to ensure the normal operation of chillers. According to customer's specific requirements, chillers with evaporating temperature less than -60°C can be made.

# Cold/Hot all-in-one Machine

## 冷热一体机

### 特点 Features

- 采用欧美进口压缩机
- 铜管采用无氧焊接法
- 加热功率切换功能
- 不锈钢一体管路, 减少管阻及锈垢
- 采用进口高级组件, 使用年限长
- 电器采用法国施耐德
- 控制方式: 采用进口微电脑或PLC控制(选购)
- 安全保护完善, 故障显示, 维修, 保养无需专业人员
- 高效率之蒸发器及冷凝器, 可节省能源30%以上
- 8HP以上采用两组压缩机头, 可单独或共同使用
- 温度控制范围: 进水温+5°C→98°C

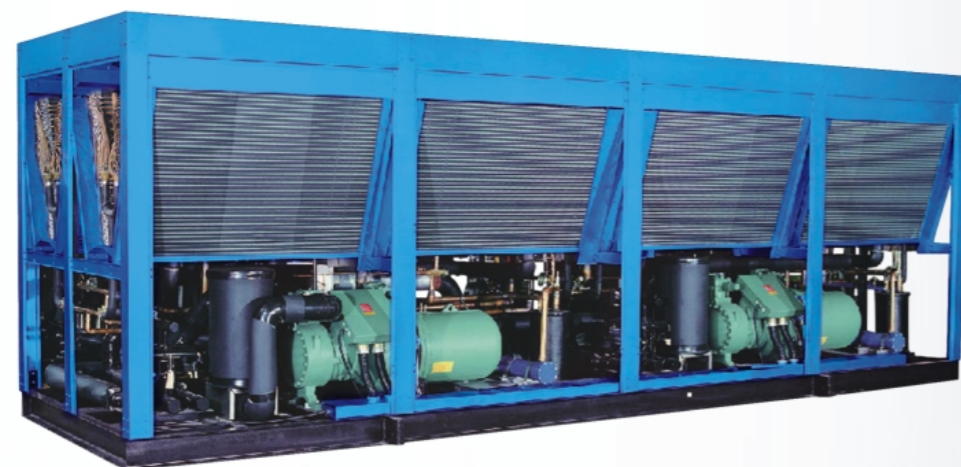
- Compressor imported from Europe and USA
- Oxygen-free welding for copper pipes
- Switchover of heating power
- Stainless steel integrated pipelines for less pipe blockage and rust
- Imported quality parts for longer service lives
- Brand Schneider for electric appliances
- Control mode: imported microcomputer or PLC (optional)
- Perfect safety protection, fault display, easy repair and maintenance even without professionals
- High-efficiency evaporator and condenser which can save energy by more than 30%
- Two groups of compressors used separately or jointly for chillers above 8HP
- Range of temperature control: +5°C→98°C for incoming water



Industrial Chiller Series  
Mold Temperature Control System  
Mixer Series  
Granulator Series  
Auto Loader System  
Dehumidification Drying System  
Central Conveying System

# Air-Cooled Screw Chiller

## 风冷式螺杆机组



120HP风冷



60HP风冷

### 特点 Features

制冷量范围为69660Kcal/h至810000Kcal/h。本系列机组在性能上除具备水冷却式螺杆机组系列的一般特征外，其最大的优点是：

- 无需安装冷却水塔、冷却水泵等设备；
- 安装简便，工程安装周期短；
- 可安装于楼顶、天台等露天场所，无需专用机房，节约空间；
- 智能控制：全自动电脑控制，无需人工监控，可实现远程或集中管理，节省管理成本。

本系列机组可广泛应用于粉末涂料、宾馆、酒楼、商场、学校、医院、办公楼等各类工业与民用建筑环境空调系统。特别适用于水资源缺乏及水质较差地区。

The cooling capacity range is from 69660 Kcal/h to 810000 Kcal/h. The air-cooled screw chillers not only have the general performance of water-cooled screw chillers, but also have the advantages as below:

- No need to install cooling towers, cooling water pumps and other equipment;
- Easy installation, engineering, installation period is short;
- Can be installed on the roof and other open spaces, do not need special room, save space;
- Intelligent control: automatic computer control without human control, which enables remote or centralized management, saving management costs.

This series can be widely used in powder coating units, hotels, restaurants, shopping malls, schools, hospitals, office buildings and other types of industrial and civil environmental air conditioning system. Especially for water scarcity and poor water quality areas.

### 特点 Features

#### 智能:

机组采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:

先进的高效能单螺杆压缩机，优质的冷凝器与蒸发器，采用先进加工工艺生产而成。

#### 安全:

具备多种机组运行安全保护措施，保证机组运行及客户使用安全。

#### 美观:

机组设计合理，外形美观。

#### Intelligence:

Unit adopts the intelligent microcomputer touch screen control system, provide the most considerate service and the most simple and easy maintenance information, and can be connected to the central control system, all-round monitoring unit operation.

#### High efficiency:

Advanced efficient screw compressor, condenser and evaporator, advanced processing technology.

#### Security:

With multiple safety protection devices, ensure the safety for operators and machine.

#### Beautiful:

Reasonable design, beautiful shape.

### 规格表 Specification Sheet

产品型号 Model		LC-30AS	LC-40AS	LC-50AS	LC-60AS	LC-70AS	LC-80AS	LC-90AS	LC-100AS	LC-120AS
制冷量 Cooling Capacity(W)	Kcal/hx10 <sup>3</sup>	70	95	122	137	164	181	211	226	275
	KW	81	110	142	159	191	211	245	263	320
	USRT	23	31	40	45	54	60	70	75	91
电源 Power supply		3PH-380V-50Hz								
制冷剂 Refrigerant		R22/R407C/R134a								
制冷回路 Refrigeration circuit		1								
节流装置 Throttling device		热力膨胀阀/电子膨胀阀 Thermostatic expansion valve / electronic expansion valve								
压缩机 Compressor	型式 Type	半封闭螺杆式 Semi-hermetic screw								
	启动方式 Starting	Y-△/分绕组 Y-△ / minute winding								
	能量控制 Energy control	33%-66%-100%			25%-50%-75%-100%					
	输入功率(KW) Input power	30	40	50	55	67	73	82	86	103
冷凝器 Condenser	额定电流(A) Rated Current	51	67	84	92	112	122	137	145	173
	型式 Type	高效能紫铜管套串铝翅片 High efficient copper covered into aluminum fin								
	冷却风量(m <sup>3</sup> /h) Cooling air flow	31500	41500	49500	63500	72500	81500	91500	102500	115000
蒸发器 Evaporator	冷却风机(KW) Cooling fan	2.4	3.1	3.2	4.6	4.8	6.2	6.4	6.8	7.2
	型式 Type	高效能内螺纹铜管壳管式 High efficient internal thread copper pipe shell and tube type								
	水流量(m <sup>3</sup> /h) Water flow	14	19	24	27	33	36	42	45	55
	水压损失(Kpa) Pressure loss	60	60	60	60	60	60	65	65	65
安全装置 Safety devices	水管规格 Pipe specifications	DN65	DN80	DN80	DN80	DN80	DN80	DN100	DN100	DN100
	过载保护、高低压力保护、排气过热保护、防冻保护、电源逆相保护、油压保护 Overload protection, high and low pressure protection, exhaust overheating protection, antifreeze protection, power inverse phase protection, hydraulic protection									
机械尺寸 Mechanical Dimensions	长 L:mm	1930	2300	3500	3000	3300	3800	4300	4300	4600
	宽 W:mm	1560	1950	1380	2000	2000	2000	2100	2100	2100
	高 H:mm	1750	1680	1950	1950	2000	2000	2000	2000	2000
机械重量 (Kg) Machine weight		960	1200	1450	1650	1750	1850	2250	2350	2550
运行重量 (Kg) Operating weight		1100	1400	1650	1850	1950	2050	2500	2600	2800

注：1、制冷量是根据以下参数为标准：环境温度：35℃ 蒸发器进出水温度12℃/7℃。  
2、机器规格会因产品改良而变动，恕不另行通知。

Note: 1.The capacity is according to the following parameters: ambient temperature: 35 °C inlet/outlet chilled water temperature 12 °C / 7 °C.  
2.The specifications above are subject to change without notice.

Industrial Chiller Series

Mold Temperature Control System

Mixer Series

Granulator Series

Auto Loader System

Dehumidification Drying System

Central Conveying System

冷水机系统

模温机系统

搅拌机系统

粉碎回收系统

自动送料系统

除湿干燥系统

中央供料系统

# Water-Cooled Screw Chiller

## 水冷式螺杆机组



90HP螺杆



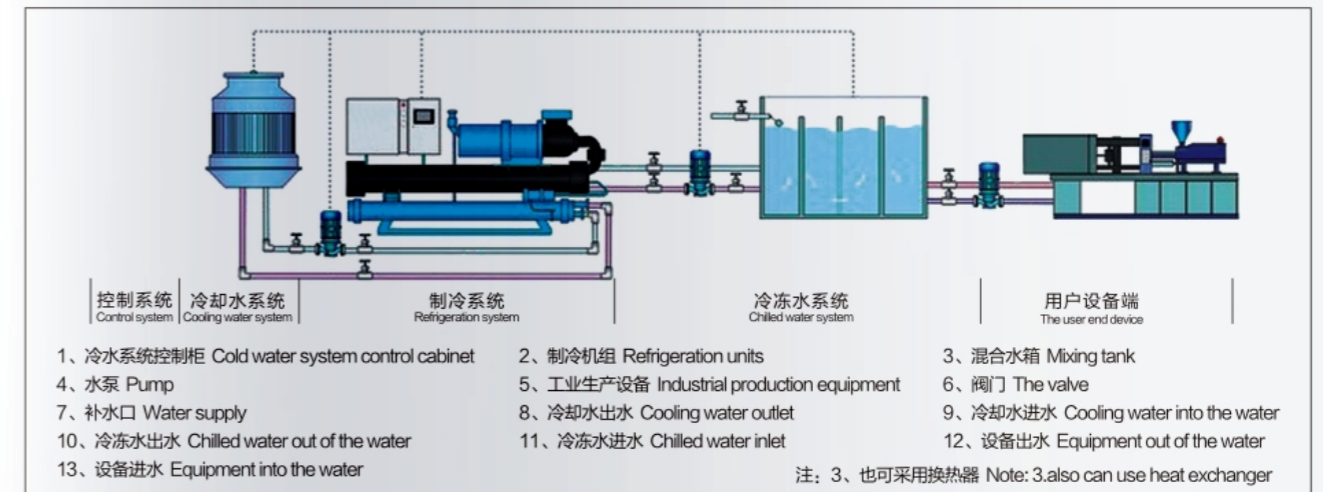
180HP螺杆

LC-W水冷式螺杆机组系列是由东莞市乐畅机械有限公司研发的新一代螺杆式冷水机组，制冷量范围为82560Kcal/h至2201600Kcal/h。

冷冻水温度调节范围为5-45℃。除标准规格外，还可以根据用户要求定做各类特殊机组。机组适用于宾馆、酒楼、商场、医院、工厂等各种工业与民用建筑的空调系统，还可以用于塑胶、电镀、食品加工、粉末、化工、薄膜等生产工序中，提供冷却用的工业冷水。

Cooling capacity range is from 82560 kcal/h to 2201600 kcal/h. To employ PLC with easy operation which can control temperature within 5-45℃ precisely.

Special kinds of water-screw chillers can be customized. Suitable for hotels, restaurants, shopping malls, hospitals, office buildings and other industrial and civil environmental air conditioning system. Especially for water scarcity and poor water quality areas. It can also be used for plastic electroplating, food processing, powder, chemical industry, film and other manufacturing processes to provide industrial cold water for cooling.



### 规格表 Specification Sheet

产品型号 Model		LC-30WS	LC-40WS	LC-50WS	LC-60WS	LC-70WS	LC-80WS	LC-90WS	LC-100WS	LC-120WS
制冷量 Cooling Capacity(W)	Kcal/hx10 <sup>3</sup>	88	119	148	170	199	228	268	284	335
	KW	102	138	172	198	231	265	312	330	390
	USRT	29	39	49	56	66	75	89	94	111
电源 Power supply		3PH-380V-50Hz								
制冷剂 Refrigerant		R22/R407C/R134a								
制冷回路 Refrigeration circuit		1								
节流装置 Throttling device		热力膨胀阀/电子膨胀阀 Thermostatic expansion valve / electronic expansion valve								
压缩机 Compressor	型式 Type	半封闭螺杆式 Semi-hermetic screw								
	启动方式 Starting	Y-Δ/分绕组 Y-Δ / minute winding								
	能量控制 Energy control	33%-66%-100%			25%-50%-75%-100%					
	输入功率(KW) Input power	23.3	30.7	38.5	42.2	48.5	56.0	63.0	66.3	79.6
额定电流(A) Rated Current	39	52	65	71	86	94	106	111	134	
冷凝器 Condenser	型式 Type	高效能外螺纹铜管壳管式 High efficient external thread copper pipe shell and tube type								
	水流量(m <sup>3</sup> /h) Water flow	21.5	29.0	36.2	41.3	48.1	55.2	64.5	68.2	80.8
	水压损失(Kpa) Pressure loss	40	40	40	40	45	45	50	50	50
	水管规格 Pipe specifications	DN65	DN80	DN80	DN80	DN80	DN80	DN100	DN100	DN100
蒸发器 Evaporator	型式 Type	高效能内螺纹铜管壳管式 High efficient internal thread copper pipe shell and tube type								
	水流量(m <sup>3</sup> /h) Water flow	17.5	23.7	29.6	34.0	39.7	45.6	53.7	56.7	67.1
	水压损失(Kpa) Pressure loss	60	60	60	60	60	60	65	65	65
	水管规格 Pipe specifications	DN65	DN80	DN80	DN80	DN80	DN80	DN100	DN100	DN100
安全装置 Safety devices		过载保护、高低压力保护、排气过热保护、防冻保护、电源逆相保护、油压保护 Overload protection, high and low pressure protection, exhaust overheating protection, antifreeze protection, power inverse phase protection, hydraulic protection								
噪音 (dB)		55.0	55.6	56.5	59.7	60.2	60.4	60.8	61.0	63.8
机械尺寸 Mechanical Dimensions	长 L:mm	2000	2200	2400	2600	3000	3000	3000	3000	3100
	宽 W:mm	750	750	850	850	900	900	1000	1000	1100
	高 H:mm	1550	1550	1600	1600	1750	1750	1800	1800	1900
机械重量 (Kg) Machine weight		960	990	1260	1380	1450	1520	1650	1750	1950
运行重量 (Kg) Operating weight		1100	1150	1420	1550	1650	1700	1830	1950	2150

注：1、制冷量是根据以下参数为标准：环境温度：35℃蒸发器进出水温度12℃/7℃。 2、机器规格会因产品改良而变动，恕不另行通知。  
Note: 1.The capacity is according to the following parameters: ambient temperature: 35℃ inlet/outlet chilled water temperature 12℃/7℃. 2.The specifications above are subject to change without notice.