烟台冰轮
YANTAI MOON

致力于人类生活质量的提高
Making a better life

YS系列虹吸式低温盐水机组

YS Series Siphon Low Temperature Brine Chiller Units

烟台冰轮股份有限公司
YANTAI MOON CO.,LTD.

烟台冰轮集团创建于 1956 年，是以工商业制冷成套设备、中央空调、精密铸件、密封材料、电站设备、换热设备等为主导产业的跨行业，国际化经营的大型集团企业。

烟台冰轮股份有限公司（股票代码 000811）是冰轮集团的核心企业，以制冷空调设备、气体压缩设备的研发、制造，制冷空调应用系统集成、制冷空调节能服务、工程成套服务为主业，是中国民族制冷空调行业的领军企业。

烟台冰轮拥有国家认定的企业技术中心，建有国内最先进的制冷性能实验室，掌握了以螺杆压缩机技术为代表的具有国际先进水平的核心技术，拥有发明专利 28 项，实用新型专利 35 项。是中国唯一拥有半封闭螺杆压缩机制造资质的企业，也是世界上唯一能够同时生产开启式、半封闭式和全封闭式螺杆压缩机的企业。烟台冰轮的活塞式压缩机 1988 年获得中国制冷产品最高质量奖－国家质量银质奖章，开启式螺杆压缩机的“理论技术及产品研发”2006 年荣获中国制冷行业最高科技奖－国家科技进步二等奖。

烟台冰轮生产的 8 个系列，500 多种制冷空调产品覆盖了食品冷冻冷藏、化工工艺制冷（冷却）、人工智能环境等领域。凭借先进的技术、可靠的品质和良好的服务为中国和全球超过 65 个国家的用户提供了“节能、环保、安全”的使用体验，帮助客户实现业务的成长。烟台冰轮全资子公司——具有综合甲级资质的鲁商冰轮建筑设计有限公司，可为用户提供专业的工程项目整体规划及系统综合设计服务。

烟台冰轮在中国各地拥有 35 个营销服务机构，在全球 21 个国家设有 22 个海外营销服务机构，在越南设有海外工厂，构建了比较完善的营销服务网络，可快速响应用户从技术咨询、项目规划、系统设计、设备采购、工程施工，到技术培训、维护保养、系统改造升级等全过程的服务需求，承诺为用户提供产品全生命周期的服务保障。

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Yantai Moon Group was founded in 1956, which is a cross-industry and international operations of large enterprise groups with industrial and commercial refrigeration equipment, central air-conditioning systems, precision castings, sealing materials, power plant equipment, heat transfer equipment as its leading industries.

Yantai Moon Co., Ltd. (stock code of 000811) is the core business unit of Moon Group, with research and development and manufacturing of refrigeration conditioning equipment and gas compression equipment, integration of refrigeration air-conditioning application systems, refrigeration air-conditioning energy-saving services, engineering service packages as its main business, and it is an industry leader of China refrigeration conditioning industry.

Yantai Moon Group has a state-certified enterprise technology center, and build the most advanced refrigeration performance lab in China. The company mastered the international advanced core technology with the screw compressor technology as its representative, and hold 28 invention patents and 35 utility model patents. It is the only enterprise with manufacturing qualification of semi-hermetic screw compressor in China, and also is the world's only enterprise who can produce open-type, semi- hermetic type and hermetic type screw compressors. The reciprocating compressor manufactured by Yantai Moon Group achieved the highest quality award in China refrigeration products - National Quality Silver Medal in 1988 and the "theory and product research and development" of open-type screw compressor achieved the highest technology award in China Refrigeration industry - Second-class National Science and Technology Progress Prize in 2006.

8 series, over 500 kinds of refrigeration & air-conditioning products from Yantai Moon Group have covered the food refrigeration, chemical process refrigeration (cooling), artificial intelligence environment and other fields. With advanced technology, reliable quality and good service, it has provided the user experiences of "energy-saving, environmental protection, safety" for customers in China and more than 65 countries around the world, and assisted customers to achieve the business growth. The wholly-owned subsidiary of Yantai Moon Group – Lushang Binglun Architectural Design Co., Ltd. with Class A integration qualification can provide customers with the professional overall project planning and system design services.

Yantai Moon Group owns 35 marketing services agencies in China and 22 overseas marketing services agencies in 21 countries, and has set up an overseas factory in Vietnam. It has built a comprehensive marketing and service network, which can make quick response to customers for the technical advisory, project planning, system design, equipment procurement, project construction, technical training, maintenance and repair, system upgrading and other services. The company is committed to provide customers with service support within the whole product life cycle.

产品介绍

烟台冰轮股份有限公司凭籍五十多年来制冷空调设备的制造经验和持续的技术研发能力，并与西安交通大学、世界业内知名企业经过多年的技术合作与交流，对压缩机的热、动力性能的理论研究和实际工作过程、压力脉动、转子受力和油分布可视化等进行了创新试验研究，研制出拥有10 余项独立自主知识产权和核心技术的新型 LG 系列高效螺杆压缩机。

YS 系列虹吸式低温盐水机组以 LG 系列高效螺杆压缩机为主机，采用 R717 和 R22 为制冷剂，也可采用 R134a、R404a、R507 等工质；该系列标准机组可使用乙二醇、氯化钙，也可采用甲醇、丙二醇、氯化钠等各种溶液做载冷剂，为化工工艺冷却、食品深加工等行业提供工艺冷却低温水。

注：订货时需注明工质和载冷剂名称，以便优化机组配置。

Product introduction

Depending upon its manufacturing experience and sustainable technical R&D capability in refrigeration and air conditioning equipment for more than 50 years and through many years of technical cooperation and exchange with Xi'an Jiaotong University and the world well-known enterprises in the industry, Yantai Moon Co., Ltd. (hereinafter abbreviated to Yantai Moon) has conducted theoretical research on the thermal and dynamic performance of compressors and innovative experimental research on their actual working process, pressure fluctuation, rotor stress and oil distribution visualization and developed new LG series high-efficiency screw compressors with over 10 independent intellectual property rights and core technologies.

YS series siphon low temperature brine chiller units use LG series high-efficiency screw compressors as principal machines and R717 and R22 as refrigerants and can also use R134a, R404a, R507, etc. as refrigerant. The series standard units can use various solutions including ethylene glycol, calcium chloride, methanol, propylene glycol and sodium chloride solutions etc. as secondary refrigerants to provide low temperature process cooling water for the industries involving chemical process cooling, food deep-processing, etc.

Note: When ordering, please specify the name of refrigerant and secondary refrigerant so as to optimize the unit configuration.

产品特点

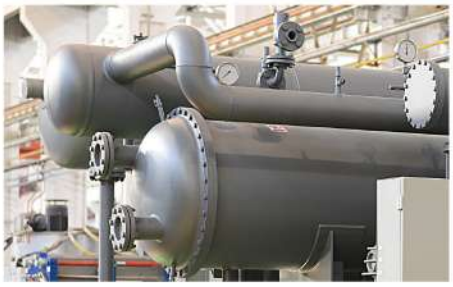
● YS 系列虹吸低温盐水机组中的压缩机采用新型高效 LG 系列螺杆压缩机，噪音低，可靠性高。

●冷凝器有蒸发冷式与水冷管壳式两种，水冷管壳式均采用高效换热管，体积小，重量轻。

Product features

• The compressors in YS series siphon low temperature brine chiller units use LG series new high-efficiency screw compressors with low noise and high reliability.

• There are two sorts of condensers such as evaporative condensers and water-cooled shell-and-tube condensers. Water-cooled shell-and-tube condensers use high efficiency heat exchange tubes and have small volume and small weight.



●蒸发器采用虹吸式结构，具有以下优点：

●与满液式和干式蒸发器相比，其供入蒸发器的低压制冷剂液体为饱和状态，换热器内不存在节流闪发气体的影响，因此其传热效率更高。

●与干式蒸发器相比，解决了干式蒸发器供液不均的问题，同时，具有满液式蒸发器换热管完全浸泡的特点。

●与满液式蒸发器相比，虹吸式蒸发器由于盐水走壳程，载冷剂在较低的流速下即可达到紊流状态，而满液式蒸发器由于沿程阻力的限制，流速不可能太高，因此载冷剂侧具有更高的传热系数。同时，制冷剂走管程，其质量流速也大大提高，其工质侧的传热系数也大幅提高，因此，虹吸式蒸发器的总传热性能也较满液式蒸发器大幅提高。

●载冷剂走壳程，因此其沿程阻力也大大降低。

●氟利昂机组的回油采用自动引射回油，操作简捷方便，可靠性高。

●采用液冷油冷，换热效果好，运行可靠性高。

●自动型机组液位控制采用国际最先进的 PMFL+SV 控制，可实现连续的自动调节，可靠性好。（注：手动型机组只有手动节流阀。）

●气液分离器采用冰轮专有技术，保证供液稳定，气液分离效果好。

●机组结构紧凑、外形美观、占地面积小。

●整个机组运转平稳、振动小、噪音低、安全可靠。

• Evaporators have a siphon structure and the following advantages:

• Siphon evaporators differ from flooded evaporators and dry evaporators in that the low pressure refrigerant liquid entering evaporators is in saturated state and there is no impact of throttling flash gas in their heat exchangers; therefore, the heat transfer efficiency of siphon evaporators is higher.

• Siphon evaporators have no such shortcoming as non-uniform liquid feeding that dry evaporators have; in addition, similarly to flooded evaporators, siphon evaporators are characterized by complete soaking of heat exchange tubes.

• The secondary refrigerant in a siphon evaporator can reach turbulent condition at low flow velocity as brine flows along the shell pass, whereas the flow velocity in a flooded evaporator cannot be too high because of being limited by on-way resistance; therefore, the secondary refrigerant side of the siphon evaporator has a larger heat transfer coefficient. In addition, since refrigerants flow along the tube pass, the mass flow velocity is also increased to a large extent and the refrigerant-side heat transfer coefficient is also increased to a large extent, so the overall heat transfer performance of the siphon evaporator is far too higher than that of the flooded evaporator.

• Secondary refrigerants flow along the shell pass, so the on-way resistance is decreased considerably.

• Freon units use the automatic injection oil return mode as the oil return mode, thus realizing simple and convenient operation and high reliability.

• Adoption of liquid-cooled oil cooler mode, good heat exchange effect, high operation reliability.

• The auto-control units use the international most advanced PMFL+SV control mode in liquid level control, which can realize continuous automatic regulation and good reliability.(Note: Manual control compressor units are equipped only with manual throttle valves.)

• The gas-liquid separators use the proprietary technology of Yantai Moon to ensure stable liquid feeding and good gas-liquid separation effect.

• The units have compact structure, nice appearance and small floor area.

• Smooth and stable operation, small vibration, low noise and high safety and reliability of the whole unit.

电气控制

YS 型低温盐水机组分为远程自动型（A）和本地自动型（B）两种型式。

远程自动型（A）

●采用 PLC 作为控制核心，可靠性高，采用进口控制元件，控制灵敏可靠。

●自动监测冷媒水出水温度，通过 PLC 自动控制滑阀上卸载，降低能耗，控制出水温度精度高。

●根据用户的需求迅速调整 PLC 程序，控制程序灵活便捷，最大限度的满足用户的实际需求。

●参照说明书便能很快掌握控制系统使用技巧，人机界面采用触摸屏，操作简捷、方便。

●具有自诊断功能，在一些参数接近极限值时，会自动采取一定的保护措施，并发出警报，使机组不受损伤，尽量减少非计划停机。

●自动记录、保存机组故障的报警情况及发生时间，并发出故障处理提示。

●可选配置：机组除具有上述功能外，还具有开放的网络通讯接口。

●可实现与楼宇自控系统或上位机系统双向通讯

●可实现多台机组协调运行实现多机控制（群控）

●通过电话网络或因特网，可实现在不同的城市或地域对单台或多台机组进行远程监控。

Electrical control

YS low temperature brine chiller units include two types such as remote automatic type (A) and local automatic type (B).

Remote automatic type (A)

• PLC is used as the control core to realize high reliability; imported control components are used to achieve sensitive and reliable control.

• Automatically monitor chilled water outlet temperature; automatically control slide valve loading & unloading via the PLC, reduce energy consumption and control water outlet temperature to achieve high accuracy.

• The PLC program can be adjusted rapidly as needed by users, and the control program is flexible and convenient, thus meeting the user's actual demand to the greatest extent possible.

• The use skill in the control system can be mastered very quickly by referring to the specification; the man-machine interface uses a touch screen to realize simple and convenient operation.

• The unit has self-diagnosis function; when some parameters approach their limit values, the unit will take certain protective measures and give an alarm to prevent the unit from being damaged and minimize nonscheduled downtime.

• Automatic recording and saving of fault alarming and occurrence time of units, giving a fault treatment prompt.

• Optional configuration: Units have open network communication interfaces in addition to the above functions.

  • Two-way communication with automatic building control system or upper machine system

  • Coordinated operation of multiple units and multi-machine control (group control)

  • Remote monitoring of a single unit or multiple units can be realized in different cities or regions via telephone network or Internet.

本地自动型（B）

●采用国产知名品牌元件，可靠性高。

●应用冰轮自主研发的节能控制器，机组运行过程中，自动监测冷媒水出水温度，调节压缩机载位。

●控制台、控制柜故障保护齐全，性能稳定、质量可靠、操作方便。

Local automatic type (B)

• The components of domestic well-known brands are used to realize high reliability.

• By using the energy saving controller independently developed by Yantai Moon, the chilled water outlet temperature is automatically monitored and the loading level of compressors is regulated during operation of units.

• Complete fault protection measures, stable performance, reliable quality and convenient operation of consoles and control cabinets

自动保护

●排气压力高　●油压低　●吸气压力低　●蒸发器断水　●油温超高

●主电机过载　●油泵电机过载　●超低温保护

Automatic protection

• High exhaust pressure • Low oil pressure • Low suction pressure • Evaporator water break

• Ultra-high oil temperature • Main motor overload • Oil pump motor overload

• Ultra-low temperature protection

机组选型说明

用户可根据实际工况及所需制冷量，在样本技术参数中查找并确定合适的机型，因机组型号较多，样本中未能全部列举，在使用工况与样本偏差较大或对设备有特殊要求时，可将具体要求和参数提供给我公司，由我公司负责选择合适机型。

Unit model selection description

Users can find and determine appropriate unit models from the technical parameters of catalogue according to actual working conditions and the needed refrigeration capacity.The catalogues don't include all unit models because of many unit models. If operating conditions are different from the working conditions of catalogue to a large extent or you have special requirements for equipment, concrete requirements and parameters can be provided to our company and our company will be responsible for selecting appropriate unit models to you.

机组型号标示释义
Interpretation of model marks of units

控制方式：A 表示自动型；M 表示手动型；B 表示半自动；
Control mode:
A denotes automatic control;
M denotes manual control ;
B denotes semi-automatic control

冷凝器型式：S 表示壳管水冷；B 表示板换冷凝器；Z 表示蒸发式冷凝器；
Condenser Type:
S represents shell and tube water-cooled type;
B represents board-cooled condenser;
Z represents evaporative condenser

蒸发器型式：M 表示满液式；H 表示虹吸式；B 表示板换式；G 表示干式；
Evaporator Type:
M represents flooded type;
H represents siphon type;
B represents board switched type;
G represents dry-type

工况：Z 表示中温，出水温度为 -5℃；N 表示出水温度为 -15℃；D 表示出水温度 -25℃；C 表示超低温，出水温度为 -35℃；
Working condition：
Z denotes moderate temperature, the water outlet temperature is -5 ℃ ;
N denotes the water outlet temperature is -15 ℃ ;
D denotes water outlet temperature -25 ℃ ;
C denotes ultra-low temperature, water outlet temperature is -35 ℃ ;

压缩机类型及数量，如开启单级 12M、16S、16M、20S、20M、20L、25S、25M、25L、32S、32M、32L、40S、40M、40L 等
开启单机双级：1612、2016、2520、3225 等
开启双级配搭：20M16S 等
半封系列：1611、15L、18L 等
Compressor type and quantity: such as Single-stage opening-type 12M、16S、16M、20S、20M、20L、25S、25M、25L、32S、32M、32L、40S、40M、40L, and etc.
Single engine two-stage opening-type: 1612、2016、2520、3225, and etc.
Two-stage well opening-type: 20M16S, and etc.
Semi-hermetic series：1611、15L、18L,and etc.

机组基本代号： YS 表示盐水机组
Unit basic code: YS represents a brine chiller unit

适用范围
Scope of application

项目 Item	载冷剂 Secondary refrigerant	型号 Model	范围（单位℃）
载冷剂出口温度 Secondary refrigerant outlet temperature	乙二醇 / 氯化钙 Glycol / Calcium chloride	YS·ZH 系列 YS·ZH series	[0 ～ -10)
		YS·NH 系列 YS·NH series	[-10 ～ -20)
	氯化钙 Calcium chloride	YS·DH 系列 YS·DH series	[-20 ～ -30）
		YS·CH 系列 YS·CH series	[-30 ～ -40]
冷却水进口温度 Cooling water inlet temperature	水 Water		19 ～ 33

注意事项

●载冷剂的浓度根据载冷剂出口温度确定；

●技术参数表中制冷量是标定工况下的实际制冷量，实际工作工况下的制冷量参照机组性能参数。

●技术参数表中的换热器水侧阻力降为设计工况流量下阻力降，如果运行高温工况需考虑水流量的增加，阻力降需要相应提高 10% ～ 30%。

●换热器水侧流量最大偏差不超过最高运行工况下流量的 10%。

●若采用其它载冷剂或运行工况不在适用范围内时，需非标设计；

●为保证系统可靠运行，系统水泵选型时总扬程应该比计算扬程大 10% ～ 20%。

●常规配置油冷型式为制冷剂冷油冷。

Attentions

• The concentration of secondary refrigerant is determined according to secondary refrigerant outlet temperature;

• The refrigeration capacity in the table of specifications is the actual refrigeration capacity under the nominal working conditions. For the refrigeration capacity under actual working conditions, refer to the table of performance parameters of units.

• Pressure drop on the heat exchanger water side in the table of specifications is the pressure drop under the designed working conditions.
If operating high temperature working conditions, you need to increase the flow of water, and the pressure drop needs to increase 10% ~ 30%
in turn.

• The maximum deviation of the flow rate on the heat exchanger water side doesn't exceed 10% of the flow rate under the maximum operating conditions.

• A nonstandard design is needed if other secondary refrigerants are used or operating conditions are not within the scope of application.

• The total head of the selected system water pump shall be 10%~20% larger than the calculated head in order to ensure reliable operation of the system.

• The oil cooling type of general configuration is refrigerant oil cooling.

YS*ZHS 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*ZHS seires brine chiller units(R717)

项目 Item			单位 Unit	YS16MZHSA(B)	YS20MZHSA(B)
制冷量 Refrigeration capacity			kW	377	732
载冷剂品种 Secondary refrigerant varieties				乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution	
能量调节方式 Capacity control mode				远程自动 / 本地自动	
能量调节范围 Capacity control range			%	15 ～ 100	
制冷剂 Refrigerant		品种 Varieties		R717	
		充注量 Charge	kg	～ 220	～ 380
		标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia	
冷冻机油 Refrigerant oil		牌号 Brand		M-K4001	
		充注量 Charge	l	～ 160	～ 370
		标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model				LG16M	LG20M
经济器 Economizer				无 No	
电机额定功率 Rated power of motor			kW	132	250
使用电制 / 防护等级 Electrical system/Protection Class				3N 50Hz 380V / IP23	
冷凝器型式 Condenser type				壳管式 Shell-tube	
壳管式冷凝器 Shell-and-tube condenser	进水温度 Water inlet temperature		℃	30	
	冷却水循环量 Cooling water circulation volume		m^3/h	83	161
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter		mm	DN125	DN200
	冷却水侧设计压力 Cooling water-side design pressure		MPa	0.6	
贮液器 Liquid receiver	容积 Volume		m^3	0.8	1.4
	进液口管径 Diameter of liquid inlet pipe		mm	DN50	DN65
	出气口管径 Gas outlet pipe diameter		mm	DN50	DN65

项目 Item			单位 Unit	YS16MZHSA(B)	YS20MZHSA(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	78	151
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN125	DN150
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6	
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086	
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 4095*3250*2940	～ 4600*3500*3400
净重 Net weight			kg	～ 8500	～ 11000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -5℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -5℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The evaporative condenser is not mounted on the unit.

YS*ZHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*ZHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS16MZHZA(B)	YS20MZHZA(B)
制冷量 Refrigeration capacity		kW	377	732
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution	
能量调节方式 Capacity control mode			远程自动 / 本地自动	
能量调节范围 Capacity control range		%	15 ～ 100	
制冷剂 Refrigerant	品种 Varieties		R717	
	充注量 Charge	kg	～ 220	～ 380
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia	
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001	
	充注量 Charge	l	～ 160	～ 370
	标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model			LG16M	LG20M
经济器 Economizer			无 No	
电机额定功率 Rated power of motor		kW	132	250
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23	
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser	
贮液器 Liquid receiver	容积 Volume	m^3	0.8	1.4
	进液口管径 Diameter of liquid inlet pipe	mm	DN50	DN65
	出气口管径 Gas outlet pipe diameter	mm	DN50	DN65
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	78	151
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN125	DN150
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6	

项目 Item			单位 Unit	YS16MZHZA(B)	YS20MZHZA(B)
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086	
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长 * 宽 * 高） Outline dimension (L* W* H)			mm	～ 3770*2350*3140	～ 3900*2700*3400
净重 Net weight			kg	～ 6000	～ 9500

注：
①本表中的设计工况为，载冷剂出口温度 -5℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the chilled water outlet temperature is -5℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. The evaporative condenser is not mounted on the unit.

YS*ZHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*ZHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS25SZHZA(B)	YS25MZHZA(B)	YS25LZHZA(B)	YS32SZHZA(B)
制冷量 Refrigeration capacity		kW	1187	1493	1858	2254
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 650	～ 700	～ 900	～ 1100
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 760			～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG25S	LG25M	LG25L	LG32S
经济器 Economizer			无 No			
电机额定功率 Rated power of motor		kW	400	450	560	710
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23			
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	1.5	1.5	1.5	2.0
	进液口管径 Diameter of liquid inlet pipe	mm	DN80	DN80	DN80	DN125
	出气口管径 Gas outlet pipe diameter	mm	DN80	DN80	DN80	DN125
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	245	307	383	464
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN200	DN250	DN250	DN300
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6			

项目 Item			单位 Unit	YS25SZHZA(B)	YS25MZHZA(B)	YS25LZHZA(B)	YS32SZHZA(B)
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN80	DN80	DN80	DN125
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	5700*3750*3900	5700*3750*4000	5700*3750*4400	7840*4510*4100
净重 Net weight			kg	～ 16000	～ 18000	～ 20000	～ 33000

注：
①本表中的设计工况为载冷剂出口温度 -5℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。
⑦蒸发式冷凝器不放置在机组上。

Note:
1.The designed working conditions in the table: the chilled water outlet temperature is -5℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6.The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.
7.The evaporative condenser is not mounted on the unit.

YS*ZHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*ZHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS32MZHZA(B)	YS32LZHZA(B)	YS40SZHZA(B)	YS40MZHZA(B)
制冷量 Refrigeration capacity		kW	2829	3382	4158	4682
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 1250	～ 1400	～ 1700	～ 1900
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 1200		～ 2000	
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG32M	LG32L	LG40S	LG40M
经济器 Economizer			无 No			
电机额定功率 Rated power of motor		kW	900	1000	1400	1600
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	2.0	2.0	5.0	5.0
	进液口管径 Diameter of liquid inlet pipe	mm	DN125	DN125	DN150	DN150
	出气口管径 Gas outlet pipe diameter	mm	DN125	DN125	DN150	DN150
虹吸罐 Siphon tank	容积 Volume	m^3	无		3.5	3.5
	进液口管径 Diameter of liquid inlet pipe	mm			DN150	DN150
	出气口管径 Gas outlet pipe diameter	mm			DN150	DN150

项目 Item			单位 Unit	YS32MZHZA(B)	YS32LZHZA(B)	YS40SZHZA(B)	YS40MZHZA(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	583	697	857	965
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN300	DN350	DN400	DN400
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN125	DN125	DN150	DN150
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	7845*4610*4200	7840*4710*4500	10900*6900*4800	10900*6900*4900
净重 Net weight			kg	～ 35000	～ 35000	～ 52000	～ 57000

注：
①本表中的设计工况为载冷剂出口温度 -5℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。
⑦蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the chilled water outlet temperature is -5℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.
7. The evaporative condenser is not mounted on the unit.

YS*NHS 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*NHS seires brine chiller units(R717)

项目 Item		单位 Unit	YS16MNHSA(B)	YS20MNHSA(B)
制冷量 Refrigeration capacity		kW	244	474
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution	
能量调节方式 Capacity control mode			远程自动 / 本地自动	
能量调节范围 Capacity control range		%	15 ～ 100	
制冷剂 Refrigerant	品种 Varieties		R717	
	充注量 Charge	kg	～ 220	～ 380
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia	
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001	
	充注量 Charge	l	～ 160	～ 370
	标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model			LG16M	LG20M
经济器 Economizer			无 No	
电机额定功率 Rated power of motor		kW	110	220
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23	
冷凝器型式 Condenser type			壳管式 Shell-tube	
壳管式冷凝器 Shell-and-tube condenser	进水温度 Water inlet temperature	℃	30	
	冷却水循环量 Cooling water circulation volume	m^3/h	58	113
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN100	DN150
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6	
贮液器 Liquid receiver	容积 Volume	m^3	0.8	1.4
	进液口管径 Diameter of liquid inlet pipe	mm	DN50	DN65
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN50	DN65

项目 Item			单位 Unit	YS16MNHSA(B)	YS20MNHSA(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	51	99
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN100	DN150
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6	
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086	
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 4095*3250*2940	～ 4300*3500*3400
净重 Net weight			kg	～ 8000	～ 10500

注：

①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 −15℃，进出水温差 5℃。

②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。

③设备标准配置的油冷却器为制冷剂冷却。

④设备配电应考虑油泵电动机、控制系统等辅助用电。

⑤蒸发式冷凝器不放置在机组上。

Note:

1.The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -15℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .

2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.

3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.

4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.

5.The evaporative condenser is not mounted on the unit.

YS*NHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*NHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS16MNHZA(B)	YS20MNHZA(B)
制冷量 Refrigeration capacity		kW	244	474
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution	
能量调节方式 Capacity control mode			远程自动 / 本地自动	
能量调节范围 Capacity control range		%	15 ～ 100	
制冷剂 Refrigerant	品种 Varieties		R717	
	充注量 Charge	kg	～ 220	～ 380
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia	
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001	
	充注量 Charge	l	～ 160	～ 370
	标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model			LG16M	LG20M
经济器 Economizer			无 No	
电机额定功率 Rated power of motor		kW	110	220
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23	
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser	
贮液器 Liquid receiver	容积 Volume	m^3	0.8	1.4
	进液口管径 Diameter of liquid inlet pipe	mm	DN50	DN65
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN50	DN65
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	51	99
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN100	DN150
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6	

项目 Item			单位 Unit	YS16MNHZA(B)	YS20MNHZA(B)
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086	
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 3770*2350*3140	～ 3900*2700*3400
净重 Net weight			kg	～ 5500	～ 8500

注：
①本表中的设计工况为，载冷剂出口温度 -15℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the chilled water outlet temperature is -15℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. The evaporative condenser is not mounted on the unit.

YS*NHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*NHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS25SNHZA(B)	YS25MNHZA(B)	YS25LNHZA(B)	YS32SNHZA(B)
制冷量 Refrigeration capacity		kW	770	970	1208	1465
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 650	～ 700	～ 900	～ 1100
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 760			～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG25S	LG25M	LG25L	LG32S
经济器 Economizer			无 No			
电机额定功率 Rated power of motor		kW	355	450	560	630
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	1.5	1.5	1.5	2.0
	进液口管径 Diameter of liquid inlet pipe	mm	DN80	DN80	DN80	DN125
	出气口管径 Gas outlet pipe diameter	mm	DN80	DN80	DN80	DN125
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	162	204	254	307
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN200	DN200	DN250	DN250
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6			

项目 Item			单位 Unit	YS25SNHZA(B)	YS25MNHZA(B)	YS25LNHZA(B)	YS32SNHZA(B)
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN80	DN80	DN80	DN125
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	5672*3565*3820	5672*3565*3930	5700*3750*4200	7735*4510*4000
净重 Net weight			kg	～ 14000	～ 16000	～ 18000	～ 33000

注：
①本表中的设计工况为载冷剂出口温度 -15℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。
⑦蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the chilled water outlet temperature is -15℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.
7. The evaporative condenser is not mounted on the unit.

YS*NHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*NHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS32MNHZA(B)	YS32LNHZA(B)	YS40SNHZA(B)	YS40MNHZA(B)
制冷量 Refrigeration capacity		kW	1839	2188	2704	3050
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 1250	～ 1400	～ 1700	～ 1900
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 1200		～ 2000	
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG32M	LG32L	LG40S	LG40M
经济器 Economizer			无 No			
电机额定功率 Rated power of motor		kW	710	900	1250	1400
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	2.0	2.0	5.0	5.0
	进液口管径 Diameter of liquid inlet pipe	mm	DN125	DN125	DN150	DN150
	平衡口管径 Balance port pipe diameter	mm	DN125	DN125	DN150	DN150
虹吸罐 Siphon tank	容积 Volume	m^3	无		3.5	3.5
	进液口管径 Diameter of liquid inlet pipe	mm			DN150	DN150
	平衡口管径 Balance port pipe diameter	mm			DN150	DN150

项目 Item			单位 Unit	YS32MNHZA(B)	YS32LNHZA(B)	YS40SNHZA(B)	YS40MNHZA(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	386	459	568	640
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN250	DN300	DN300	DN350
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN125	DN125	DN150	DN150
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	7840*4610*4100	7840*4710*4300	10900*6900*4800	10900*6900*4800
净重 Net weight			kg	～ 33000	～ 33000	～ 52000	～ 57000

注：
①本表中的设计工况为载冷剂出口温度 -15℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。
⑦蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the chilled water outlet temperature is -15℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.
7. The evaporative condenser is not mounted on the unit.

YS*DHS 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*DHS seires brine chiller units(R717)

项目 Item			单位 Unit	YS16MDHSA(B)	YS20MDHSA(B)
制冷量 Refrigeration capacity			kW	174.3	340
载冷剂品种 Secondary refrigerant varieties				氯化钙水溶液 calcium chloride water solution	
能量调节方式 Capacity control mode				远程自动 / 本地自动	
能量调节范围 Capacity control range			%	15 ～ 100	
制冷剂 Refrigerant		品种 Varieties		R717	
		充注量 Charge	kg	～ 220	～ 380
		标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia	
冷冻机油 Refrigerant oil		牌号 Brand		M-K4001	
		充注量 Charge	l	～ 160	～ 370
		标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model				LG16M	LG20M
经济器 Economizer				有 Yes	
电机额定功率 Rated power of motor			kW	110	200
使用电制 / 防护等级 Electrical system/Protection Class				3N 50Hz 380V / IP23	
冷凝器型式 Condenser type				壳管式 Shell-tube	
壳管式冷凝器 Shell-and-tube condenser	进水温度 Water inlet temperature		℃	30	
	冷却水循环量 Cooling water circulation volume		m^3/h	45	88
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter		mm	DN100	DN150
	冷却水侧设计压力 Cooling water-side design pressure		MPa	0.6	
贮液器 Liquid receiver	容积 Volume		m^3	0.8	0.8
	进液口管径 Diameter of liquid inlet pipe		mm	DN50	DN65
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter		mm	DN50	DN65

项目 Item			单位 Unit	YS16MDHSA(B)	YS20MDHSA(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	37	72
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN125	DN150
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6	
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086	
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长 * 宽 * 高） Outline dimension (L* W* H)			mm	～ 4095*3250*2940	～ 4300*3560*3400
净重 Net weight			kg	～ 8000	～ 10500

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -25℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤蒸发式冷凝器不放置在机组上。

Note:
1.The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -25℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The evaporative condenser is not mounted on the unit.

YS*DHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*DHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS16MDHZA(B)	YS20MDHZA(B)
制冷量 Refrigeration capacity		kW	174.3	340
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution	
能量调节方式 Capacity control mode			远程自动 / 本地自动	
能量调节范围 Capacity control range		%	15 ～ 100	
制冷剂 Refrigerant	品种 Varieties		R717	
	充注量 Charge	kg	～ 220	～ 380
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia	
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001	
	充注量 Charge	l	～ 160	～ 370
	标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model			LG16M	LG20M
经济器 Economizer			有 Yes	
电机额定功率 Rated power of motor		kW	110	200
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23	
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser	
贮液器 Liquid receiver	容积 Volume	m^3	0.8	0.8
	进液口管径 Diameter of liquid inlet pipe	mm	DN50	DN65
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN50	DN65
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	37	72
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN125	DN150
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6	

项目 Item			单位 Unit	YS16MDHZA(B)	YS20MDHZA(B)
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂污垢系数 Fouling factor of secondary refrigerant			m^2.k/kW	0.086	
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 3770*2350*3140	～ 3900*2700*3200
净重 Net weight			kg	～ 5500	～ 8500

注：
①本表中的设计工况为，载冷剂出口温度 -25℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the chilled water outlet temperature is -25℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. The evaporative condenser is not mounted on the unit.

YS*DHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*DHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS25SDHZA(B)	YS25MDHZA(B)	YS25LDHZA(B)	YS32SDHZA(B)
制冷量 Refrigeration capacity		kW	556.5	700	871	1059
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 600	～ 650	～ 800	～ 1000
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 760			～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG25S	LG25M	LG25L	LG32S
经济器 Economizer			有 Yes			
电机额定功率 Rated power of motor		kW	315	450	560	630
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	1.1	1.1	1.1	1.5
	进液口管径 Diameter of liquid inlet pipe	mm	DN80	DN80	DN80	DN125
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN80	DN80	DN80	DN125
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	118	148	184	224
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN150	DN200	DN200	DN200
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6			

项目 Item			单位 Unit	YS25SDHZA(B)	YS25MDHZA(B)	YS25LDHZA(B)	YS32SDHZA(B)
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN80	DN80	DN80	DN125
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	5672*3565*3462	5672*3565*3512	5672*3565*3720	7660*4510*3800
净重 Net weight			kg	～ 14000	～ 16000	～ 16000	～ 33000

注：
①本表中的设计工况为载冷剂出口温度 -25℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。
⑦蒸发式冷凝器不放置在机组上。

Note:
1.The designed working conditions in the table: the chilled water outlet temperature is -25℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6.The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.
7.The evaporative condenser is not mounted on the unit.

YS*DHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*DHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS32MDHZA(B)	YS32LDHZA(B)	YS40SDHZA(B)	YS40MDHZA(B)
制冷量 Refrigeration capacity		kW	1329	1590	1987	2213
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 1150	～ 1200	～ 1400	～ 1400
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 1200		～ 2000	
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG32M	LG32L	LG40S	LG40M
经济器 Economizer			有 Yes			
电机额定功率 Rated power of motor		kW	800	900	1120	1400
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	1.5	1.5	5.0	5.0
	进液口管径 Diameter of liquid inlet pipe	mm	DN125	DN125	DN150	DN150
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN125	DN125	DN150	DN150
虹吸罐 Siphon tank	容积 Volume	m^3	无		3.5	3.5
	进液口管径 Diameter of liquid inlet pipe	mm			DN150	DN150
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm			DN150	DN150

项目 Item			单位 Unit	YS32MDHZA(B)	YS32LDHZA(B)	YS40SDHZA(B)	YS40MDHZA(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	281	336	420	468
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN250	DN250	DN300	DN300
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN125	DN125	DN150	DN150
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	7820*4510*3900	7740*4610*4100	10900*6900*4600	10900*6900*4600
净重 Net weight			kg	～ 33000	～ 33000	～ 52000	～ 55000

注：

①本表中的设计工况为载冷剂出口温度 -25℃，进出水温差 5℃。

②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。

③设备标准配置的油冷却器为制冷剂冷却。

④设备配电应考虑油泵电动机、控制系统等辅助用电。

⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。

⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

⑦蒸发式冷凝器不放置在机组上。

Note:

1. The designed working conditions in the table: the chilled water outlet temperature is -25℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .

2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.

3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.

4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.

5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.

6. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

7. The evaporative condenser is not mounted on the unit.

YS*CHS 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*CHS seires brine chiller units(R717)

项目 Item			单位 Unit	YS16MCHSA(B)	YS20MCHSA(B)
制冷量 Refrigeration capacity			kW	102.7	203
载冷剂品种 Secondary refrigerant varieties				氯化钙水溶液 calcium chloride water solution	
能量调节方式 Capacity control mode				远程自动 / 本地自动	
能量调节范围 Capacity control range			%	15 ～ 100	
制冷剂 Refrigerant		品种 Varieties		R717	
		充注量 Charge	kg	～ 220	～ 380
		标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia	
冷冻机油 Refrigerant oil		牌号 Brand		M-K4001	
		充注量 Charge	l	～ 160	～ 370
		标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model				LG16M	LG20M
经济器 Economizer				有 Yes	
电机额定功率 Rated power of motor			kW	110	200
使用电制 / 防护等级 Electrical system/Protection Class				3N 50Hz 380V / IP23	
冷凝器型式 Condenser type				壳管式 Shell-tube	
壳管式冷凝器 Shell-and-tube condenser	进水温度 Water inlet temperature		℃	30	
	冷却水循环量 Cooling water circulation volume		m^3/h	31	60
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter		mm	DN100	DN100
	冷却水侧设计压力 Cooling water-side design pressure		MPa	0.6	
贮液器 Liquid receiver	容积 Volume		m^3	0.8	0.8
	进液口管径 Diameter of liquid inlet pipe		mm	DN50	DN65
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter		mm	DN50	DN65

项目 Item			单位 Unit	YS16MCHSA(B)	YS20MCHSA(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	22	43
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN80	DN100
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6	
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086	
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 3770*2350*3140	～ 3900*2700*3200
净重 Net weight			kg	～ 5000	～ 8000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30°C，进出水温差 5°C；载冷剂出口温度 −35°C，进出水温差 5°C。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤蒸发式冷凝器不放置在机组上。

Note:
1.The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30°C and the difference between the water inlet temperature and the water outlet temperature is 5°C ; the chilled water outlet temperature is -35°C and the difference between the water inlet temperature and the water outlet temperature is 5°C .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The evaporative condenser is not mounted on the unit.

YS*CHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*CHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS16MCHZA(B)	YS20MCHZA(B)
制冷量 Refrigeration capacity		kW	102.7	203
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution	
能量调节方式 Capacity control mode			远程自动 / 本地自动	
能量调节范围 Capacity control range		%	15 ～ 100	
制冷剂 Refrigerant	品种 Varieties		R717	
	充注量 Charge	kg	～ 220	～ 380
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia	
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001	
	充注量 Charge	l	～ 160	～ 370
	标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model			LG16M	LG20M
经济器 Economizer			有 Yes	
电机额定功率 Rated power of motor		kW	110	200
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23	
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser	
贮液器 Liquid receiver	容积 Volume	m^3	0.8	0.8
	进液口管径 Diameter of liquid inlet pipe	mm	DN50	DN65
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN50	DN65
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	22	43
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN80	DN100
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6	

项目 Item			单位 Unit	YS16MCHZA(B)	YS20MCHZA(B)
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂污垢系数 Fouling factor of secondary refrigerant			m^2.k/kW	0.086	
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 3770*2350*3140	～ 3900*2700*3200
净重 Net weight			kg	～ 5000	～ 8000

注：
①本表中的设计工况为，载冷剂出口温度 -35℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the chilled water outlet temperature is -35℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. The evaporative condenser is not mounted on the unit.

YS*CHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*CHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS25SCHZA(B)	YS25MCHZA(B)	YS25LCHZA(B)	YS32SCHZA(B)
制冷量 Refrigeration capacity		kW	334	420	525	638
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 600	～ 650	～ 800	～ 1000
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 760			～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG25S	LG25M	LG25L	LG32S
经济器 Economizer			有 Yes			
电机额定功率 Rated power of motor		kW	315	400	450	560
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	1.1	1.1	1.1	1.5
	进液口管径 Diameter of liquid inlet pipe	mm	DN80	DN80	DN80	DN125
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN80	DN80	DN80	DN125
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	71	90	112	136
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN125	DN150	DN200	DN200
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6			

项目 Item			单位 Unit	YS25SCHZA(B)	YS25MCHZA(B)	YS25LCHZA(B)	YS32SCHZA(B)
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN80	DN80	DN80	DN125
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	5672*3565*3362	5672*3565*3412	5672*3565*3562	7660*4510*3800
净重 Net weight			kg	～ 14000	～ 16000	～ 16000	～ 30000

注：
①本表中的设计工况为载冷剂出口温度 -35℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。
⑦蒸发式冷凝器不放置在机组上。

Note:
1.The designed working conditions in the table: the chilled water outlet temperature is -35℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6.The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.
7.The evaporative condenser is not mounted on the unit.

YS*CHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*CHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS32MCHZA(B)	YS32LCHZA(B)	YS40SCHZA(B)	YS40MCHZA(B)
制冷量 Refrigeration capacity		kW	800	958	1199	1326
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 1150	～ 1200	～ 1400	～ 1400
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 1200		～ 2000	
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG32M	LG32L	LG40S	LG40M
经济器 Economizer			有 Yes			
电机额定功率 Rated power of motor		kW	710	800	1000	1250
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	1.5	1.5	5.0	5.0
	进液口管径 Diameter of liquid inlet pipe	mm	DN125	DN125	DN150	DN150
	平衡口管径 Balance port pipe diameter	mm	DN125	DN125	DN150	DN150
虹吸罐 Siphon tank	容积 Volume	m^3	无		3.5	3.5
	进液口管径 Diameter of liquid inlet pipe	mm			DN150	DN150
	平衡口管径 Balance port pipe diameter	mm			DN150	DN150

项目 Item			单位 Unit	YS32MCHZA(B)	YS32LCHZA(B)	YS40SCHZA(B)	YS40MCHZA(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	171	204	256	283
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN200	DN250	DN250	DN250
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN125	DN125	DN150	DN150
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	7660*4510*3800	7660*4610*3900	10900*6900*4500	10900*6900*4700
净重 Net weight			kg	～ 33000	～ 33000	～ 52000	～ 55000

注：
①本表中的设计工况为载冷剂出口温度 -35℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。
⑦蒸发式冷凝器不放置在机组上。

Note:
1.The designed working conditions in the table: the chilled water outlet temperature is -35℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6.The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.
7.The evaporative condenser is not mounted on the unit.

YS*ZH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*ZH seires brine chiller units(R22)

项目 Item		单位 Unit	YS16MZHS(Z)A(B)	YS20MZHS(Z)A(B)
制冷量 Refrigeration capacity		kW	367	704.4
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution	
能量调节方式 Capacity control mode			远程自动 / 本地自动	
能量调节范围 Capacity control range		%	15 ～ 100	
制冷剂 Refrigerant	品种 Varieties		R22	
	充注量 Charge	kg	～ 600	～ 900
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"	
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001	
	充注量 Charge	l	～ 160	～ 370
	标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model			LG16M	LG20M
经济器 Economizer			无 No	
电机额定功率 Rated power of motor		kW	132	250
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23	
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser	
壳管式冷凝器 Shell-and-tube condenser	进水温度 Water inlet temperature	℃	30	
	冷却水循环量 Cooling water circulation volume	m^3/h	82	156
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN125	DN150
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6	
贮液器 Liquid receiver	容积 Volume	m^3	0.48	1.1
	进液口管径 Diameter of liquid inlet pipe	mm	DN80	DN125
	出气口管径 gas outlet pipe diameter	mm	DN50	DN65

项目 Item			单位 Unit	YS16MZHS(Z)A(B)	YS20MZHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	76	145
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN125	DN150
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6	
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086	
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 3809*2312*2982	～ 3992*2760*3420
净重 Net weight			kg	～ 6600	～ 10000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -5℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -5℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7. The evaporative condenser is not mounted on the unit.

YS*ZH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*ZH seires brine chiller units(R22)

项目 Item		单位 Unit	YS25SZHS(Z)A(B)	YS25MZHS(Z)A(B)	YS25LZHS(Z)A(B)	YS32SZHS(Z)A(B)
制冷量 Refrigeration capacity		kW	1149	1449	1806	2192
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 1700	～ 1800	～ 2300	～ 2650
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 760			～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG25S	LG25M	LG25L	LG32S
经济器 Economizer			无 No			
电机额定功率 Rated power of motor		kW	400	500	630	710
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	253	319	397	486
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN200	DN250	DN250	DN300
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	1.7	1.7	2.3	4.2
	进液口管径 Diameter of liquid inlet pipe	mm	DN150	DN150	DN150	DN200
	出气口管径 gas outlet pipe diameter	mm	DN80	DN80	DN80	DN125

项目 Item			单位 Unit	YS25SZHS(Z)A(B)	YS25MZHS(Z)A(B)	YS25LZHS(Z)A(B)	YS32SZHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	237	299	372	452
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN200	DN250	DN250	DN300
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN80	DN80	DN80	DN125
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	5855*3620*4260	59403550*4220	6110*3880*4770	7735*4665*4730
净重 Net weight			kg	～ 22000	～ 22000	～ 24000	～ 40000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 −5℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。
⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -5℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7. The evaporative condenser is not mounted on the unit.
8. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

YS*ZH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*ZH seires brine chiller units(R22)

项目 Item		单位 Unit	YS32MZHS(Z)A(B)	YS32LZHS(Z)A(B)	YS40SZHS(Z)A(B)	YS40MZHS(Z)A(B)
制冷量 Refrigeration capacity		kW	2752	3289	3911	4617
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 3200	～ 3400	～ 5000	～ 5500
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 1200		～ 2000	
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG32M	LG32L	LG40S	LG40M
经济器 Economizer			无 No			
电机额定功率 Rated power of motor		kW	900	1120	1400	1800
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	606	724	882	1063
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN350	DN350	DN400	DN400
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	4.2	5.2	6.3	6.3
	进液口管径 Diameter of liquid inlet pipe	mm	DN200	DN200	DN250	DN250
	平衡口管径 Balance port pipe diameter	mm	DN125	DN125	DN150	DN150
虹吸罐 Siphon tank	容积 Volume	m^3	无		3.5	3.5
	进液口管径 Diameter of liquid inlet pipe	mm			DN250	DN250
	出气口管径 gas outlet pipe diameter	mm			DN150	DN150

项目 Item			单位 Unit	YS32MZHS(Z)A(B)	YS32LZHS(Z)A(B)	YS40SZHS(Z)A(B)	YS40MZHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	567	678	806	951
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN300	DN350	DN400	DN400
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN125	DN125	DN150	DN150
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	7845*4715*5285	7845*4830*5610	10900*6900*5300	10900*6900*5374
净重 Net weight			kg	～ 42000	～ 42000	～ 60000	～ 65000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 −5℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥ LG32 系列机组采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。LG40 系列机组采用蒸发式冷凝器时配置贮液器和虹吸罐，采用壳管式冷凝器时配置贮液器。
⑦蒸发式冷凝器不放置在机组上。
⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:
1.The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -5℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6.LG32 series compressor units with evaporative condensers are equipped with liquid storage tanks, and those with shell-tube type condensers are not equipped with liquid storage tanks.
LG40 series compressor units with evaporative condensers are equipped with liquid storage tanks and siphon tanks, and those with shell-tube type condensers are equipped only with liquid storage tanks.
7.The evaporative condenser is not mounted on the unit.
8.The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

YS*NH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*NH seires brine chiller units(R22)

项目 Item			单位 Unit	YS16MNHS(Z)A(B)	YS20MNHS(Z)A(B)
制冷量 Refrigeration capacity			kW	245	472
载冷剂品种 Secondary refrigerant varieties				乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution	
能量调节方式 Capacity control mode				远程自动 / 本地自动	
能量调节范围 Capacity control range			%	15 ～ 100	
制冷剂 Refrigerant		品种 Varieties		R22	
		充注量 Charge	kg	～ 550	～ 900
		标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"	
冷冻机油 Refrigerant oil		牌号 Brand		M-K4001	
		充注量 Charge	l	～ 160	～ 370
		标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model				LG16M	LG20M
经济器 Economizer				无 No	
电机额定功率 Rated power of motor			kW	110	220
使用电制 / 防护等级 Electrical system/Protection Class				3N 50Hz 380V / IP23	
冷凝器型式 Condenser type				壳管式 / 蒸发冷 Shell-tube/Evaporative condenser	
壳管式冷凝器 Shell-and-tube condenser	进水温度 Water inlet temperature		℃	30	
	冷却水循环量 Cooling water circulation volume		m^3/h	59	113
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter		mm	DN100	DN150
	冷却水侧设计压力 Cooling water-side design pressure		MPa	0.6	
贮液器 Liquid receiver	容积 Volume		m^3	0.48	1.1
	进液口管径 Diameter of liquid inlet pipe		mm	DN80	DN125
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter		mm	DN50	DN65

项目 Item			单位 Unit	YS16MNHS(Z)A(B)	YS20MNHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	51	99
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN100	DN125
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6	
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086	
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 3770*2356*2858	～ 3988*2750*3336
净重 Net weight			kg	～ 6000	～ 9000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 −15℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -15℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7. The evaporative condenser is not mounted on the unit.

YS*NH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*NH seires brine chiller units(R22)

项目 Item		单位 Unit	YS25SNHS(Z)A(B)	YS25MNHS(Z) A(B)	YS25LNHS(Z)A(B)	YS32SNHS(Z) A(B)
制冷量 Refrigeration capacity		kW	770	972	1213	1472
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 1700	～ 1800	～ 2200	～ 2650
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHCIF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 760			～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG25S	LG25M	LG25L	LG32S
经济器 Economizer			无 No			
电机额定功率 Rated power of motor		kW	355	450	560	710
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	184	232	289	354
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN200	DN200	DN250	DN250
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	1.7	1.7	1.7	4.2
	进液口管径 Diameter of liquid inlet pipe	mm	DN150	DN150	DN150	DN200
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN80	DN80	DN80	DN125

项目 Item			单位 Unit	YS25SNHS(Z)A(B)	YS25MNHS(Z)A(B)	YS25LNHS(Z)A(B)	YS32SNHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	162	204	255	309
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN200	DN250	DN250	DN250
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN80	DN80	DN80	DN125
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	5714*3190*3675	5855*3520*4260	6030*3730*4380	7735*4665*4730
净重 Net weight			kg	～18000	～20000	～22000	～40000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 −15℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。
⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -15℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7. The evaporative condenser is not mounted on the unit.
8. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

YS*NH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*NH seires brine chiller units(R22)

项目 Item		单位 Unit	YS32MNHS(Z)A(B)	YS32LNHS(Z)A(B)	YS40SNHS(Z)A(B)	YS40MNHS(Z)A(B)
制冷量 Refrigeration capacity		kW	1847	2207	2644	3117
载冷剂品种 Secondary refrigerant varieties			乙二醇水溶液 / 氯化钙水溶液 Ethylene glycol water solution/ calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 3200	～ 3400	～ 4500	～ 4800
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 1200		～ 2000	
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG32M	LG32L	LG40S	LG40M
经济器 Economizer			无 No			
电机额定功率 Rated power of motor		kW	800	1000	1250	1600
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	440	526	648	763
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN300	DN300	DN350	DN400
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	4.2	5.2	6.3	6.3
	进液口管径 Diameter of liquid inlet pipe	mm	DN200	DN200	DN250	DN250
	平衡口管径 Balance port pipe diameter	mm	DN125	DN125	DN150	DN150
虹吸罐 Siphon tank	容积 Volume	m^3	无		3.5	3.5
	进液口管径 Diameter of liquid inlet pipe	mm			DN250	DN250
	出气口管径 gas outlet pipe diameter	mm			DN150	DN150

项目 Item			单位 Unit	YS32MNHS(Z)A(B)	YS32LNHS(Z)A(B)	YS40SNHS(Z)A(B)	YS40MNHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	388	463	555	654
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN250	DN300	DN350	DN350
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN125	DN125	DN150	DN150
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	7840*4830*4790	7840*4830*4890	10900*6900*4800	10900*6900*4800
净重 Net weight			kg	～ 40000	～ 40000	～ 60000	～ 65000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -15℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥ LG32 系列机组采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。LG40 系列机组采用蒸发式冷凝器时配置贮液器和虹吸罐，采用壳管式冷凝器时配置贮液器。
⑦蒸发式冷凝器不放置在机组上。
⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -15℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. LG32 series compressor units with evaporative condensers are equipped with liquid storage tanks, and those with shell-tube type condensers are not equipped with liquid storage tanks.
LG40 series compressor units with evaporative condensers are equipped with liquid storage tanks and siphon tanks, and those with shell-tube type condensers are equipped only with liquid storage tanks.
7. The evaporative condenser is not mounted on the unit.
8. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

YS*DH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*DH seires brine chiller units(R22)

项目 Item			单位 Unit	YS16MDHS(Z)A(B)	YS20MDHS(Z)A(B)
制冷量 Refrigeration capacity			kW	188.5	363.7
载冷剂品种 Secondary refrigerant varieties				氯化钙水溶液 calcium chloride water solution	
能量调节方式 Capacity control mode				远程自动 / 本地自动	
能量调节范围 Capacity control range			%	15 ～ 100	
制冷剂 Refrigerant		品种 Varieties		R22	
		充注量 Charge	kg	～ 550	～ 900
		标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"	
冷冻机油 Refrigerant oil		牌号 Brand		M-K4001	
		充注量 Charge	l	～ 160	～ 370
		标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model				LG16M	LG20M
经济器 Economizer				有 Yes	
电机额定功率 Rated power of motor			kW	110	220
使用电制 / 防护等级 Electrical system/Protection Class				3N 50Hz 380V / IP23	
冷凝器型式 Condenser type				壳管式 / 蒸发冷 Shell-tube/Evaporative condenser	
壳管式冷凝器 Shell-and-tube condenser	进水温度 Water inlet temperature		℃	30	
	冷却水循环量 Cooling water circulation volume		m^3/h	50	95
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter		mm	DN100	DN150
	冷却水侧设计压力 Cooling water-side design pressure		MPa	0.6	
贮液器 Liquid receiver	容积 Volume		m^3	0.40	1.1
	进液口管径 Diameter of liquid inlet pipe		mm	DN100	DN125
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter		mm	DN50	DN65

项目 Item			单位 Unit	YS16MDHS(Z)A(B)	YS20MDHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	40	77
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN100	DN125
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6	
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086	
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 3770*2356*2858	～ 3988*2750*3336
净重 Net weight			kg	～ 6000	～ 9000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -25℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -25℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7. The evaporative condenser is not mounted on the unit.

YS*DH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*DH seires brine chiller units(R22)

项目 Item		单位 Unit	YS25SDHS(Z)A(B)	YS25MDHS(Z)A(B)	YS25LDHS(Z)A(B)	YS32SDHS(Z)A(B)
制冷量 Refrigeration capacity		kW	604	755	938	1145
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 1750	～ 1800	～ 2200	～ 2700
	标准 Standard		GB7373《工业用二氟一氯甲烷（F22）》 GB7373 "CHClF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 760			～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG25S	LG25M	LG25L	LG32S
经济器 Economizer			有 Yes			
电机额定功率 Rated power of motor		kW	355	450	560	710
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	157	196	243	300
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN200	DN200	DN200	DN250
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	1.2	1.2	1.5	2.9
	进液口管径 Diameter of liquid inlet pipe	mm	DN150	DN150	DN150	DN200
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN80	DN80	DN80	DN125

项目 Item			单位 Unit	YS25SDHS(Z)A(B)	YS25MDHS(Z)A(B)	YS25LDHS(Z)A(B)	YS32SDHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	128	160	198	242
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN150	DN200	DN200	DN200
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN80	DN80	DN80	DN125
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	5714*3290*3675	5714*3290*3675	5855*3630*4260	7660*4665*4265
净重 Net weight			kg	～ 18000	～ 20000	～ 20000	～ 40000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 −25℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。
⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:
1.The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -25℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6.Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7.The evaporative condenser is not mounted on the unit.
8.The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

YS*DH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*DH seires brine chiller units(R22)

项目 Item		单位 Unit	YS32MDHS(Z)A(B)	YS32LDHS(Z)A(B)	YS40SDHS(Z)A(B)	YS40MDHS(Z)A(B)
制冷量 Refrigeration capacity		kW	1437	1713	2071	2358
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 3200	～ 3400	～ 4500	～ 4800
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 1200		～ 2000	
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG32M	LG32L	LG40S	LG40M
经济器 Economizer			有 Yes			
电机额定功率 Rated power of motor		kW	900	1000	1400	1600
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	372	444	554	626
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN250	DN300	DN300	DN350
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	2.9	3.4	6.3	6.3
	进液口管径 Diameter of liquid inlet pipe	mm	DN200	DN200	DN250	DN250
	平衡口管径 Balance port pipe diameter	mm	DN125	DN125	DN150	DN150
虹吸罐 Siphon tank	容积 Volume	m^3	无		3.5	3.5
	进液口管径 Diameter of liquid inlet pipe	mm			DN250	DN250
	出气口管径 gas outlet pipe diameter	mm			DN150	DN150

项目 Item			单位 Unit	YS32MDHS(Z)A(B)	YS32LDHS(Z)A(B)	YS40SDHS(Z)A(B)	YS40MDHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	304	362	438	499
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN250	DN250	DN300	DN350
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN125	DN125	DN150	DN150
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	7820*4830*4790	7840*4830*4790	10900*6900*4800	10900*6900*4800
净重 Net weight			kg	～ 40000	～ 40000	～ 60000	～ 62000

注：

①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -25℃，进出水温差 5℃。

②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。

③设备标准配置的油冷却器为制冷剂冷却。

④设备配电应考虑油泵电动机、控制系统等辅助用电。

⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。

⑥ LG32 系列机组采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。LG40 系列机组采用蒸发式冷凝器时配置贮液器和虹吸罐，采用壳管式冷凝器时配置贮液器。

⑦蒸发式冷凝器不放置在机组上。

⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:

1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -25℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .

2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.

3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.

4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.

5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.

6. LG32 series compressor units with evaporative condensers are equipped with liquid storage tanks, and those with shell-tube type condensers are not equipped with liquid storage tanks.
LG40 series compressor units with evaporative condensers are equipped with liquid storage tanks and siphon tanks, and those with shell-tube type condensers are equipped only with liquid storage tanks.

7. The evaporative condenser is not mounted on the unit.

8. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

YS*CH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*CH seires brine chiller units(R22)

项目 Item		单位 Unit	YS16MCHS(Z)A(B)	YS20MCHS(Z)A(B)
制冷量 Refrigeration capacity		kW	120.8	235
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution	
能量调节方式 Capacity control mode			远程自动 / 本地自动	
能量调节范围 Capacity control range		%	15 ～ 100	
制冷剂 Refrigerant	品种 Varieties		R22	
	充注量 Charge	kg	～ 550	～ 900
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"	
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001	
	充注量 Charge	l	～ 160	～ 370
	标准 Standard		Q/YB00J08.21.1 — 2011	
压缩机型号 Compressor model			LG16M	LG20M
经济器 Economizer			有 Yes	
电机额定功率 Rated power of motor		kW	110	200
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23	
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser	
壳管式冷凝器 Shell-and-tube condenser	进水温度 Water inlet temperature	℃	30	
	冷却水循环量 Cooling water circulation volume	m^3/h	36	70
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN100	DN125
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6	
贮液器 Liquid receiver	容积 Volume	m^3	0.40	1.1
	进液口管径 Diameter of liquid inlet pipe	mm	DN100	DN125
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN50	DN65

项目 Item			单位 Unit	YS16MCHS(Z)A(B)	YS20MCHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type	
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	25	50
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN80	DN125
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6	
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube	
	制冷剂 Refrigerant	出气口通径 Drift diameter of gas outlet	mm	DN50	DN65
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086	
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1	
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment	
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	～ 3735*2377*2800	～ 3975*2730*3250
净重 Net weight			kg	～ 6000	～ 8500

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -35℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -35℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7. The evaporative condenser is not mounted on the unit.

YS*CH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*CH seires brine chiller units(R22)

项目 Item		单位 Unit	YS25SCHS(Z)A(B)	YS25MCHS(Z) A(B)	YS25LCHS(Z)A(B)	YS32SCHS(Z) A(B)
制冷量 Refrigeration capacity		kW	392	490.7	610.8	745
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 1750	～ 1850	～ 2200	～ 2700
	标准 Standard		GB7373《工业用二氟一氯甲烷（F22）》 GB7373 "CHClF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 760			～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG25S	LG25M	LG25L	LG32S
经济器 Economizer			有 Yes			
电机额定功率 Rated power of motor		kW	315	450	500	630
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	114	143	178	219
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN150	DN150	DN200	DN200
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	1.2	1.2	1.5	2.9
	进液口管径 Diameter of liquid inlet pipe	mm	DN150	DN150	DN150	DN200
	平衡口（出气口）管径 Balance port (gas outlet) pipe diameter	mm	DN80	DN80	DN80	DN125

项目 Item			单位 Unit	YS25SCHS(Z)A(B)	YS25MCHS(Z)A(B)	YS25LCHS(Z)A(B)	YS32SCHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	84	105	130	159
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN150	DN150	DN200	DN200
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN80	DN80	DN80	DN125
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	5714*3290*3575	5714*3290*3675	5855*3630*4260	7660*4665*4165
净重 Net weight			kg	～ 18000	～ 20000	～ 20000	～ 35000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -35℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。
⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:
1.The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -35℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7.The evaporative condenser is not mounted on the unit.
8.The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

YS*CH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*CH seires brine chiller units(R22)

项目 Item		单位 Unit	YS32MCHS(Z)A(B)	YS32LCHS(Z)A(B)	YS40SCHS(Z)A(B)	YS40MCHS(Z)A(B)
制冷量 Refrigeration capacity		kW	935	1115	1358	1531
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 3200	～ 3400	～ 4500	～ 4800
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 1200		～ 2000	
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG32M	LG32L	LG40S	LG40M
经济器 Economizer			有 Yes			
电机额定功率 Rated power of motor		kW	800	900	1250	1400
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 10kV / IP23			
冷凝器型式 Condenser type			壳管式 / 蒸发冷 Shell-tube/Evaporative condenser			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	271	324	408	459
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN200	DN250	DN300	DN300
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	2.9	3.4	6.3	6.3
	进液口管径 Diameter of liquid inlet pipe	mm	DN200	DN200	DN250	DN250
	平衡口管径 Balance port pipe diameter	mm	DN125	DN125	DN150	DN150
虹吸罐 Siphon tank	容积 Volume	m^3	无		3.5	3.5
	进液口管径 Diameter of liquid inlet pipe	mm			DN250	DN250
	出气口管径 gas outlet pipe diameter	mm			DN150	DN150

项目 Item			单位 Unit	YS32MCHS(Z)A(B)	YS32LCHS(Z)A(B)	YS40SCHS(Z)A(B)	YS40MCHS(Z)A(B)
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	199	238	290	326
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN200	DN250	DN250	DN300
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN125	DN125	DN150	DN150
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	7845*4830*4500	7820*4830*4790	10900*6900*4800	10900*6900*4800
净重 Net weight			kg	～ 40000	～ 40000	～ 60000	～ 62000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 -35℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥ LG32 系列机组采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。LG40 系列机组采用蒸发式冷凝器时配置贮液器和虹吸罐，采用壳管式冷凝器时配置贮液器。
⑦蒸发式冷凝器不放置在机组上。
⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:
1.The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -35℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2.The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3.The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4.The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5.The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. LG32 series compressor units with evaporative condensers are equipped with liquid storage tanks, and those with shell-tube type condensers are not equipped with liquid storage tanks.
LG40 series compressor units with evaporative condensers are equipped with liquid storage tanks and siphon tanks, and those with shell-tube type condensers are equipped only with liquid storage tanks.
7.The evaporative condenser is not mounted on the unit.
8.The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

YS*CHZ 系列盐水机组技术参数表（制冷剂 R717）

Main technical parameters of YS*CHZ seires brine chiller units(R717)

项目 Item		单位 Unit	YS1612CHZA	YS2016CHZA	YS2520CHZA	YS3225CHZA
制冷量 Refrigeration capacity		kW	108.9	212.2	440.6	990
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R717			
	充注量 Charge	kg	～ 220	～ 380	～ 650	～ 1200
	标准 Standard		GB536《液体无水氨》 GB536 Liquefied anhydrous ammonia			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 200	～ 370	～ 760	～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG1612	LG2016	LG2520MS	LG3225LS
电机额定功率 Rated power of motor		kW	110	185	355	800
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23		3N 50Hz 10kV / IP23	
冷凝器型式 Condenser type			蒸发冷 Evaporative condenser			
贮液器 Liquid receiver	容积 Volume	m^3	0.8	0.8	1.1	1.5
	进液口管径 Diameter of liquid inlet pipe	mm	DN50	DN65	DN80	DN125
	平衡口管径 Balance port pipe diameter	mm	DN50	DN65	DN80	DN125
蒸发器 Evaporator	型式 Type		虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume	m^3/h	22	43	88	201
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet	mm	DN80	DN100	DN150	DN250
	载冷剂侧设计压力 Secondary refrigerant-side design pressure	MPa	0.6			

项目 Item			单位 Unit	YS1612CHZA	YS2016CHZA	YS2520CHZA	YS3225CHZA
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN50	DN65	DN80	DN125
载冷剂污垢系数 Fouling factor of secondary refrigerant			$m^2.k/kW$	0.086			
蒸发器水程阻力 Resistance of evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	3770*2350*3140	3900*2700*3200	5672*3565*3412	7660*4610*3900
净重 Net weight			kg	～ 5000	～ 8000	～ 16000	～ 33000

注：
①本表中的设计工况为载冷剂出口温度 -35℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。
⑦蒸发式冷凝器不放置在机组上。

Note:
1. The designed working conditions in the table: the chilled water outlet temperature is -25℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.
7. The evaporative condenser is not mounted on the unit.

YS*CH 系列盐水机组技术参数表（制冷剂 R22）

Main technical parameters of YS*CH seires brine chiller units(R22)

项目 Item		单位 Unit	YS1612CHS(Z)A	YS2016CHS(Z)A	YS2520CHS(Z)A	YS3225CHS(Z)A
制冷量 Refrigeration capacity		kW	126.5	245.5	510.5	1153
载冷剂品种 Secondary refrigerant varieties			氯化钙水溶液 calcium chloride water solution			
能量调节方式 Capacity control mode			远程自动 / 本地自动			
能量调节范围 Capacity control range		%	15 ～ 100			
制冷剂 Refrigerant	品种 Varieties		R22			
	充注量 Charge	kg	～ 550	～ 900	～ 1850	～ 3400
	标准 Standard		GB7373《工业用二氟一氯甲烷 (F22)》 GB7373 "CHClF2 for Industrial Use (F22)"			
冷冻机油 Refrigerant oil	牌号 Brand		M-K4001			
	充注量 Charge	l	～ 200	～ 370	～ 760	～ 1200
	标准 Standard		Q/YB00J08.21.1 — 2011			
压缩机型号 Compressor model			LG1612	LG2016	LG2520MS	LG3225LS
电机额定功率 Rated power of motor		kW	110	185	355	800
使用电制 / 防护等级 Electrical system/Protection Class			3N 50Hz 380V / IP23		3N 50Hz 10kV / IP23	
冷凝器型式 Condenser type			壳管式 Shell-tube			
壳管式冷凝器 Shell-and-tube condenser	冷却水循环量 Cooling water circulation volume	m^3/h	36	70	143	325
	冷却水进出水管径 Cooling water inlet and outlet pipe diameter	mm	DN100	DN125	DN150	DN250
	冷却水侧设计压力 Cooling water-side design pressure	MPa	0.6			
贮液器 Liquid receiver	容积 Volume	m^3	0.4	1.1	1.2	3.4
	进液口管径 Diameter of liquid inlet pipe	mm	DN100	DN125	DN150	DN200
	平衡口管径 Balance port pipe diameter	mm	DN50	DN65	DN80	DN125

项目 Item			单位 Unit	YS1612CHS(Z)A	YS2016CHS(Z)A	YS2520CHS(Z)A	YS3225CHS(Z)A
蒸发器 Evaporator	型式 Type			虹吸式 Siphoning type			
	载冷剂循环量 Secondary refrigerant circulation volume		m^3/h	25	49	103	235
	载冷剂进出口通径 Drift diameter of secondary refrigerant inlet and outlet		mm	DN80	DN125	DN150	DN250
	载冷剂侧设计压力 Secondary refrigerant-side design pressure		MPa	0.6			
油冷却器 Oil cooler	型式 Type			壳管式 Shell-tube			
	制冷剂 Refrigerant	出气管径 Diameter of gas discharge pipe	mm	DN50	DN65	DN80	DN125
载冷剂、冷却水污垢系数 Fouling factor of secondary refrigerant and cooling water			$m^2.k/kW$	0.086			
冷凝器、蒸发器水程阻力 Resistance of condenser and evaporator on water path			MPa	≤0.1			
冷却水水质标准 Cooling water quality standard				GB50050《工业循环冷却水的处理规范》 GB50050 Code for Design of Industrial Recirculating Cooling Water Treatment			
外形尺寸（长＊宽＊高） Outline dimension (L* W* H)			mm	3735*2377*2800	3975*3730*3250	5714*3290*3675	7820*4830*4790
净重 Net weight			kg	～ 6000	～ 8500	～ 20000	～ 40000

注：
①本表中的设计工况为，管壳式冷凝器冷却水进水温度 +30℃，进出水温差 5℃；载冷剂出口温度 −35℃，进出水温差 5℃。
②蒸发器水流量以氯化钙水溶液质量浓度 29. 4% 计算。
③设备标准配置的油冷却器为制冷剂冷却。
④设备配电应考虑油泵电动机、控制系统等辅助用电。
⑤制冷剂充注量不包括蒸发式冷凝器内及其连接管路内的存液量。
⑥采用蒸发式冷凝器时配置贮液器，采用壳管式冷凝器时不配置贮液器。
⑦蒸发式冷凝器不放置在机组上。
⑧由于所配电机功率及防护等级的差异，会造成净重差别较大，表中数据仅供参考。

Note:
1. The designed working conditions in the table: the cooling water inlet temperature of the shell-and-tube condenser is +30℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ ; the chilled water outlet temperature is -35℃ and the difference between the water inlet temperature and the water outlet temperature is 5℃ .
2. The water flow rate of evaporators is calculated according to 29.4% mass concentration of calcium chloride water solution.
3. The oil cooler for the standard configuration of the equipment is cooled by refrigerants.
4. The equipment power distribution shall consider the auxiliary power for the oil pump motor, control system, etc.
5. The refrigerant charging volume doesn't include the liquid residence volume in the evaporative condenser and its connecting pipeline.
6. Using evaporative condenser need to configure receiver, and using the shell-and-tube condenser needn't.
7. The evaporative condenser is not mounted on the unit.
8. The difference in power and protection level of the motors will cause a large difference in their net weight, so the data in the table are used for reference only.

性能参数表
Table of performance parameters

压缩机 Compressor / Tcin / Teout	LG16M 压缩机盐水机组 (R717) LG16M compressor brine chiller unit (R717)						LG16M 压缩机盐水机组 (R22) LG16M compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	446	426	418	102.8	112.4	116	450.5	434	420	101	107.6	114.2
-5	383	377	369	100.8	108	111.7	375.1	367	355	99.8	107.2	113.8
-10	295	285	279	95.8	101.5	105.4	300.6	292	282	98.5	102.3	107.1
-15	248	244	238	91.2	96	99.5	250.1	245	237	93.8	99.52	104.1

压缩机 Compressor / Tcin / Teout	LG16M 压缩机盐水机组 (R717) LG16M compressor brine chiller unit (R717)						LG16M 压缩机盐水机组 (R22) LG16M compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	210	208.7	204.7	87	92.8	97.6	226	222.5	217.2	100	106	111
-25	176	174.3	171	83	88.3	92.8	191	188.5	184	95	100	105
-30	128	126.5	122.8	77	81.9	87	149	146	141.5	88	93.1	97.4
-35	104	102.7	100	74	79	83	123	120.8	117	83.6	88.7	92.8
-40	81	77.5	75	71	75.2	79.4	104	100.1	97	82.6	87.3	91.4

压缩机 Compressor / Tcin / Teout	LG20M 压缩机盐水机组 (R717) LG20M compressor brine chiller unit (R717)						LG20M 压缩机盐水机组 (R22) LG20M compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	901	852	834	192	208	215	853	827	800	190.3	203	215
-5	745	732	717	189	203	210	725	704.4	681.6	180	202	214
-10	583	545	533	176	186	194	572	560.6	542	185	192	201
-15	482	474	463.5	172	181	187	486	472	456	178	187	196

压缩机 Compressor / Tcin / Teout	LG20M 压缩机盐水机组 (R717) LG20M compressor brine chiller unit (R717)						LG20M 压缩机盐水机组 (R22) LG20M compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	408	406	398	165	175	184	435	428.8	418.6	188	199	208
-25	342	340	334	156	168	177	368	363.7	355	179	189	198
-30	251	250	243	145	155	164	288	284.9	276	166	177	185
-35	205	203	197	139	148.5	156.8	239	235	228	158	167	175
-40	156	149	144.5	133	140.7	148.6	202	194	188	155	164	172

注：Tcin—冷却水进水温度，Teout—载冷剂出水温度，制冷量和轴功率单位为 kw；

Note:Tcin—cooling water inlet temperature,Teout—secondary refrigerant outlet temperature; the unit of refrigeration capacity and shaft power is kw;

性能参数表
Table of performance parameters

压缩机 Compressor / Tcin / Teout	LG25S 压缩机盐水机组 (R717) LG25S compressor brine chiller unit (R717)						LG25S 压缩机盐水机组 (R22) LG25S compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	1400	1374	1347	310	338	350	1398	1338	1296	302	326	345
-5	1210	1187	1164	304	326	337	1180	1149	1113	301	324	344
-10	923	908	890	285	308	320	925	901.5	873.7	291	310	324
-15	785	770	754	275	289	301	782	770	746	281	300	314

压缩机 Compressor / Tcin / Teout	LG25S 压缩机盐水机组 (R717) LG25S compressor brine chiller unit (R717)						LG25S 压缩机盐水机组 (R22) LG25S compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	665	663	653	263	282	296	724	712.5	696.7	304	323	338
-25	560	556.5	548	251	268	282	610	604	590.5	289	307	321
-30	413	410	400	233	250	264	479	472.4	459.8	269	285	298
-35	338	334	325	224	240	253	399	392	381	256	271	283
-40	263	254	248	219	232	245	338	327	318	253	268	280

压缩机 Compressor / Tcin / Teout	LG25M 压缩机盐水机组 (R717) LG25M compressor brine chiller unit (R717)						LG25M 压缩机盐水机组 (R22) LG25M compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	1789	1742	1709	382	425	440	1740	1695	1643	380	409	434
-5	1510	1493	1464	380	409	423	1476	1449	1404	379	407	432
-10	1170	1156	1132	354	386	401	1175	1151	1115	370	388	406
-15	975	970	950	342	364	378	987	972	942	354	377	395

压缩机 Compressor / Tcin / Teout	LG25M 压缩机盐水机组 (R717) LG25M compressor brine chiller unit (R717)						LG25M 压缩机盐水机组 (R22) LG25M compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	836	833	821	332	353	371	905	981	871	381	404	422
-25	705	700	689.5	315	337	354	764	755	738	362	384	401
-30	520	516.6	504	293	313	330	600	591.5	575.8	336	356	373
-35	427	420	410	281	301	318	498	490.7	477.7	319	339	354
-40	335	321	313	271	287	303	425	410.3	399	312	327	342

注：Tcin—冷却水进水温度，Teout—载冷剂出水温度，制冷量和轴功率单位为 kw；

Note:Tcin—cooling water inlet temperature,Teout—secondary refrigerant outlet temperature; the unit of refrigeration capacity and shaft power is kw;

性能参数表
Table of performance parameters

压缩机 Compressor / Tcin / Teout	LG25L 压缩机盐水机组 (R717) LG25L compressor brine chiller unit (R717)						LG25L 压缩机盐水机组 (R22) LG25L compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	2210	2178	2136	479	523	542	2135	2110	2045	473	508	539
-5	1870	1858	1822	470.2	508	526	1839	1806	1750	464.3	505	536
-10	1462	1443	1413	439	477	496	1462	1435	1390	458	485	507
-15	1209	1208	1183	425	452	470	1221	1213	1176	440	468	490

压缩机 Compressor / Tcin / Teout	LG25L 压缩机盐水机组 (R717) LG25L compressor brine chiller unit (R717)						LG25L 压缩机盐水机组 (R22) LG25L compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	1040	1036	1021	413	437	460	1123	1105	1081	472	500	522
-25	876	871	858	391	418	439	950	938	917	449	475	496
-30	648	644	628	363	389	410	745	736	716.5	417	442	463
-35	531	525	512	349	373	394	621	610.8	594.6	396	420	439
-40	419	404	394	337	357	377	528	509	495.5	387	406	425

压缩机 Compressor / Tcin / Teout	LG32S 压缩机盐水机组 (R717) LG32S compressor brine chiller unit (R717)						LG32S 压缩机盐水机组 (R22) LG32S compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	2686	2645	2595	598	661	684	2620	2567	2488	587	633	672
-5	2273	2254	2211	590	635	658	2218	2192	2125	586	632	670
-10	1755	1734	1698	558	600	623	1752	1736	1682	570	606	634
-15	1466	1465	1435	535	565	586	1492	1472	1426	550	585	613

压缩机 Compressor / Tcin / Teout	LG32S 压缩机盐水机组 (R717) LG32S compressor brine chiller unit (R717)						LG32S 压缩机盐水机组 (R22) LG32S compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	1264	1260	1242	550	585	615	1370	1348	1318	594	627	655
-25	1065	1059	1043	489	523	550	1158	1145	1120	562	595	622
-30	788	782	762	457	486	513	910	898	874	521	553	579
-35	647	638	622	436	467	493	757	745	725	496	527	551
-40	510	481	469	416	443	468	650	630	613	486	510	534

注：Tcin—冷却水进水温度，Teout—载冷剂出水温度，制冷量和轴功率单位为 kw；

Note:Tcin—cooling water inlet temperature,Teout—secondary refrigerant outlet temperature; the unit of refrigeration capacity and shaft power is kw;

性能参数表
Table of performance parameters

压缩机 Compressor / Tcin / Teout	LG32M 压缩机盐水机组 (R717) LG32M compressor brine chiller unit (R717)						LG32M 压缩机盐水机组 (R22) LG32M compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	3382	3322	3258	731.2	807	835	3297	3212	3113	725.1	774	821
-5	2812	2829	2775	723.2	774	801	2783	2752	2667	720.3	770	817
-10	2203	2180	2135	683.2	732	761	2206	2175	2108	707.6	739	774
-15	1801	1839	1801	653	688	714	1821	1847	1790	676.5	713	747

压缩机 Compressor / Tcin / Teout	LG32M 压缩机盐水机组 (R717) LG32M compressor brine chiller unit (R717)						LG32M 压缩机盐水机组 (R22) LG32M compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	1599	1583	1559	628	668	703	1721	1694	1656	720	764	798
-25	1337	1329	1309	595	636	670	1454	1437	1405	684	725	758
-30	992	983	959	558	593	626	1143	1128	1098	636	674	705
-35	812	800	780	531	570	601	951	935	911	604	642	672
-40	633	611	596	516	547	578	801	778.8	758	596	628	657

压缩机 Compressor / Tcin / Teout	LG32L 压缩机盐水机组 (R717) LG32L compressor brine chiller unit (R717)						LG32L 压缩机盐水机组 (R22) LG32L compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	4062	3989	3912	879.6	965	999	3924	3844	3725	867.9	925	981
-5	3401	3382	3317	863.8	925	957	3306	3289	3187	860.3	920	976
-10	2652	2618	2564	820.2	873	907	2672	2614	2533	843.5	884	925
-15	2196	2188	2143	783.1	822	854	2203	2207	2139	810.5	853	892

压缩机 Compressor / Tcin / Teout	LG32L 压缩机盐水机组 (R717) LG32L compressor brine chiller unit (R717)						LG32L 压缩机盐水机组 (R22) LG32L compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	1900	1893	1865	750	800	841	2054	1714	1676	862	915	956
-25	1600	1590	1566	715	762	801	1734	1713	1675	819	867	906
-30	1184	1176	1146	666	709	750	1363	1344	1308	767	807	844
-35	972	958	934	636	681	720	1134	1115	1085	723	767	803
-40	743	714	696	602	640	675	946	915	891	698	736	770

注：Tcin—冷却水进水温度，Teout—载冷剂出水温度，制冷量和轴功率单位为 kw；

Note: Tcin—cooling water inlet temperature, Teout—secondary refrigerant outlet temperature; the unit of refrigeration capacity and shaft power is kw;

性能参数表
Table of performance parameters

压缩机 Compressor / Tcin / Teout	LG40S 压缩机盐水机组 (R717) LG40S compressor brine chiller unit (R717)						LG40S 压缩机盐水机组 (R22) LG40S compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	4975	4898	4804	1152	1266	1311	4717	4597	4468	1122	1232	1266
-5	4205	4158	4078	1118	1206	1247	4043	3911	3802	1115	1220	1253
-10	3308	3263	3191	1052	1138	1182	3202	3124	3028	1088	1161	1200
-15	2736	2704	2644	1020	1072	1113	2712	2644	2562	1048	1122	1160

压缩机 Compressor / Tcin / Teout	LG40S 压缩机盐水机组 (R717) LG40S compressor brine chiller unit (R717)						LG40S 压缩机盐水机组 (R22) LG40S compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	2374	2363	2321	985	1048	1102	2469	2437	2372	1151	1212	1268
-25	1998	1987	1952	936	998	1050	2098	2071	2016	1087	1147	1200
-30	1481	1470	1431	866	924	975	1653	1634	1577	1006	1066	1115
-35	1216	1199	1167	829	886	936	1379	1358	1311	956	1012	1059
-40	920	886	862	790	841	890	1154	1120	1081	916	961	1006

压缩机 Compressor / Tcin / Teout	LG40M 压缩机盐水机组 (R717) LG40M compressor brine chiller unit (R717)						LG40M 压缩机盐水机组 (R22) LG40M compressor brine chiller unit (R22)					
	不带经济器 Without economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
0	5526	5490	5385	1519.6	1578	1634	5493	5370	5220	1624	1684	1731
-5	4695	4682	4592	1408.3	1466	1517	4668	4617	4488	1506	1565	1608
-10	3685	3642	3561	1259	1318	1369	3762	3677	3563	1329	1408	1456
-15	3075	3050	2982	1172.3	1240	1288	3128	3117	3021	1230	1322	1367

压缩机 Compressor / Tcin / Teout	LG40M 压缩机盐水机组 (R717) LG40M compressor brine chiller unit (R717)						LG40M 压缩机盐水机组 (R22) LG40M compressor brine chiller unit (R22)					
	带经济器 With economizer											
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-20	2652	2631	2584	1115	1187	1247	2810	2789	2715	1300	1352	1415
-25	2230	2213	2173	1061	1132	1190	2380	2358	2295	1220	1283	1342
-30	1650	1629	1586	984	1051	1110	1880	1843	1778	1143	1193	1248
-35	1350	1326	1291	944	1010	1070	1556	1531	1477	1080	1138	1191
-40	1040	998	971	913	970	1025	1300	1229	1186	1059	1116	1167

注：Tcin—冷却水进水温度，Teout—载冷剂出水温度，制冷量和轴功率单位为 kw；

Note:Tcin—cooling water inlet temperature,Teout—secondary refrigerant outlet temperature; the unit of refrigeration capacity and shaft power is kw;

性能参数表
Table of performance parameters

压缩机 Compressor / Tcin / Teout	LG1612 压缩机盐水机组 (R717) LG1612 compressor brine chiller unit (R717)						LG2016 压缩机盐水机组 (R717) LG2016 compressor brine chiller unit (R717)					
	制冷量			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-30	131.3	131.1	129.9	73	76	79	259.8	258	256.9	134	142	145
-35	109	108.9	108.7	66	69	71	212.5	212.2	212	124	130	134
-40	88.2	88.1	87.9	62	65	67	153.2	153.1	152.8	109	114	117

压缩机 Compressor / Tcin / Teout	LG2520MS 压缩机盐水机组 (R717) LG2520MS compressor brine chiller unit (R717)						LG3225LS 压缩机盐水机组 (R717) LG3225LS compressor brine chiller unit (R717)					
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-30	541	539	536	274	286	296	1210	1208	1206	597	625	643
-35	441	440.6	440.2	255	265	275	992	990	989	550	580	595
-40	358.2	358.1	357.8	224	237	250	712	711	709	495	524	538

压缩机 Compressor / Tcin / Teout	LG1612 压缩机盐水机组 (R22) LG1612 compressor brine chiller unit (R22)						LG2016 压缩机盐水机组 (R22) LG2016 compressor brine chiller unit (R22)					
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-30	150.5	150.2	149.9	87	90	93	290	289	287	151	159	162
-35	127	126.5	126．2	80	83	85	246	245.5	244	139	148	150
-40	101	100.3	99．9	71	75	77	198	197	195	127	134	137

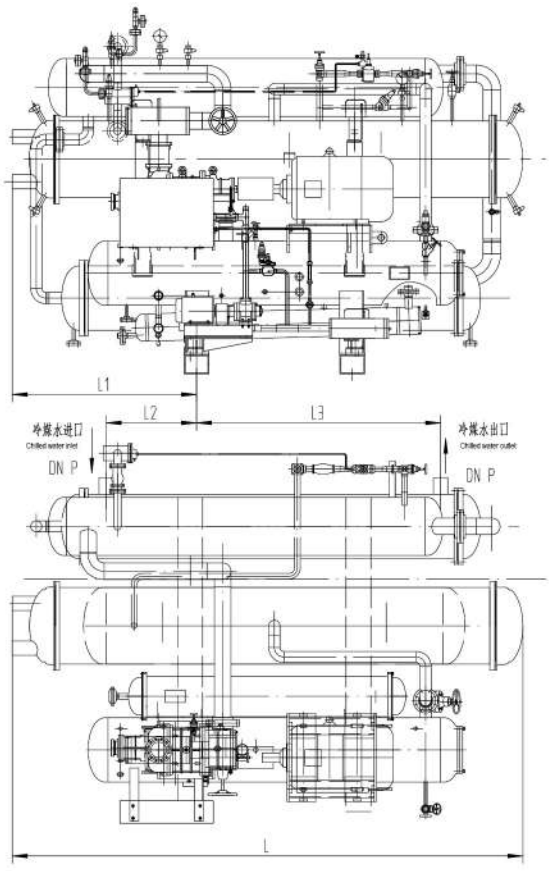
压缩机 Compressor / Tcin / Teout	LG2520MS 压缩机盐水机组 (R22) LG2520MS compressor brine chiller unit (R22)						LG3225LS 压缩机盐水机组 (R22) LG3225LS compressor brine chiller unit (R22)					
	制冷量 Refrigeration capacity			轴功率 Shaft power			制冷量 Refrigeration capacity			轴功率 Shaft power		
℃	+27	+30	+33	+27	+30	+33	+27	+30	+33	+27	+30	+33
-30	609	602	599	308	325	330	1365	1358	1352	674	710	719
-35	513	510.5	509	286	300	308	1157	1153	1148	626	660	670
-40	413	411	409	262	375	282	932	928	923	575	610	618

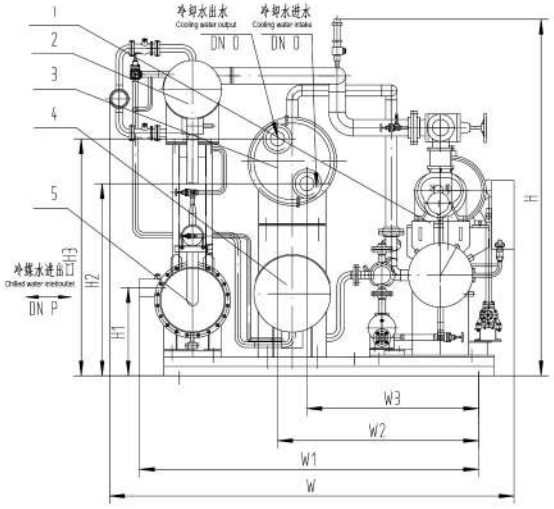
注：Tcin—冷却水进水温度，Teout—载冷剂出水温度，制冷量和轴功率单位为 kw；

Note: Tcin—cooling water inlet temperature, Teout—secondary refrigerant outlet temperature; the unit of refrigeration capacity and shaft power is kw;

YS*HS 系列盐水机组外形图（制冷剂 R717）

Main technical parameters of YS*HS seires brine chiller units(R717)



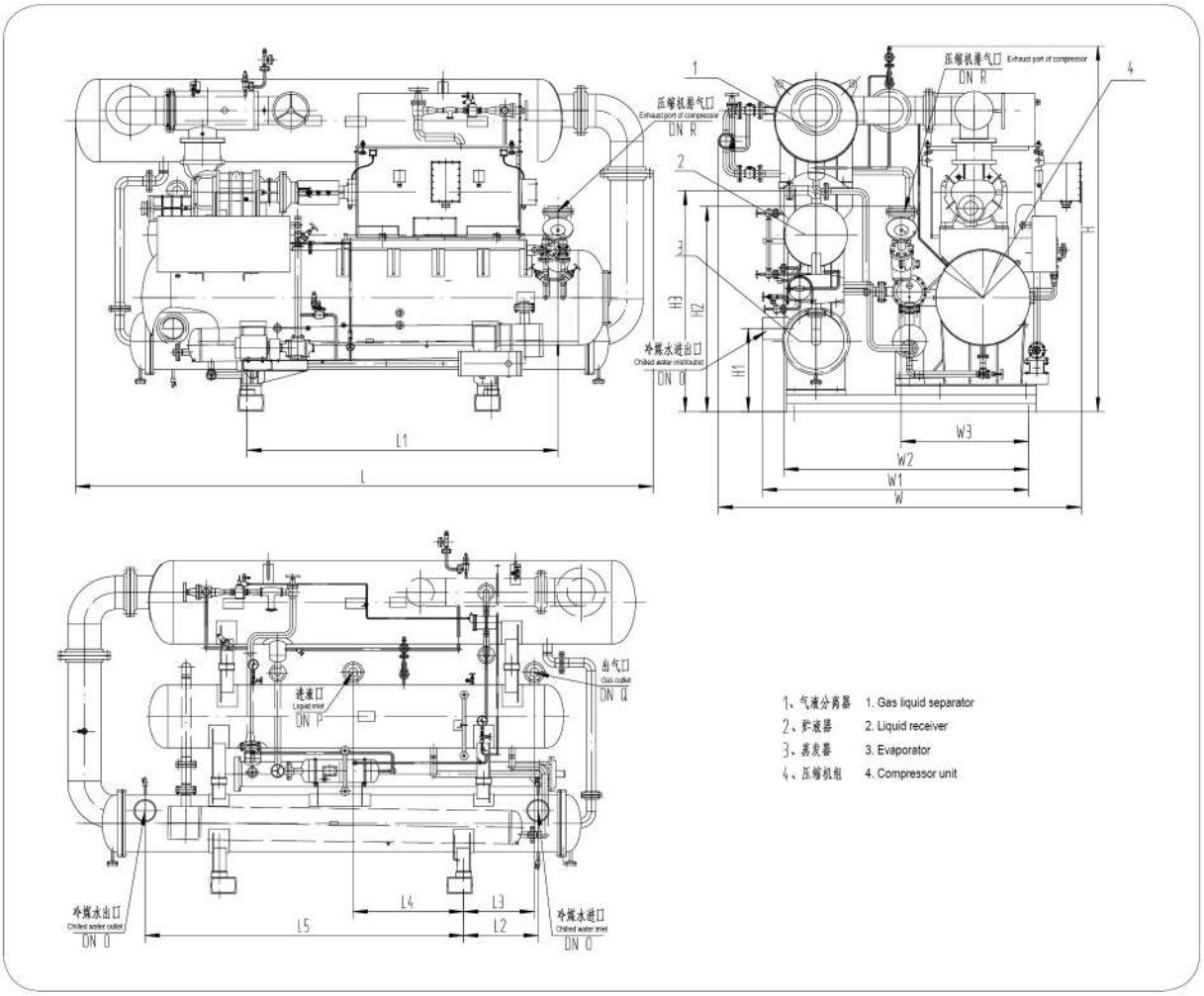


1、压缩机组 1. Compressor
2、气液分离器 2. Gas liquid separator
3、冷凝器 3. Condenser
4、贮液器 4. Liquid receiver
5、蒸发器 5. Evaporator

	L	W	H	L1	L2	L3	W1	W2	W3	H1	H2	H3	O	P
YS16MZHSA(B)	4095	3250	2940	1470	725	1960	2730	1595	1395	708	1540	1840	125	125
YS16MNHSA(B)	4095	3250	2940	1470	725	1960	2730	1595	1395	708	1540	1840	100	100
YS16MDHSA(B)	4095	3250	2940	1470	725	1960	2730	1595	1395	608	1540	1740	100	80
YS16MCHSA(B)	4095	3250	2940	1470	725	1960	2730	1595	1395	608	1540	1740	100	80
YS20MZHSA(B)	4600	3500	3400	1450	550	2135	2875	1530	1250	858	1818	2118	200	150
YS20MNHSA(B)	4300	3500	3400	1375	550	2135	2875	1530	1250	808	1818	2098	150	150
YS20MDHSA(B)	4300	3560	3400	1375	550	2135	2900	1705	1425	708	1818	2098	150	125
YS20MCHSA(B)	4095	3560	3400	1300	550	2135	2900	1665	1425	608	1818	2018	100	100

YS*HZ 系列盐水机组外形图（制冷剂 R717）

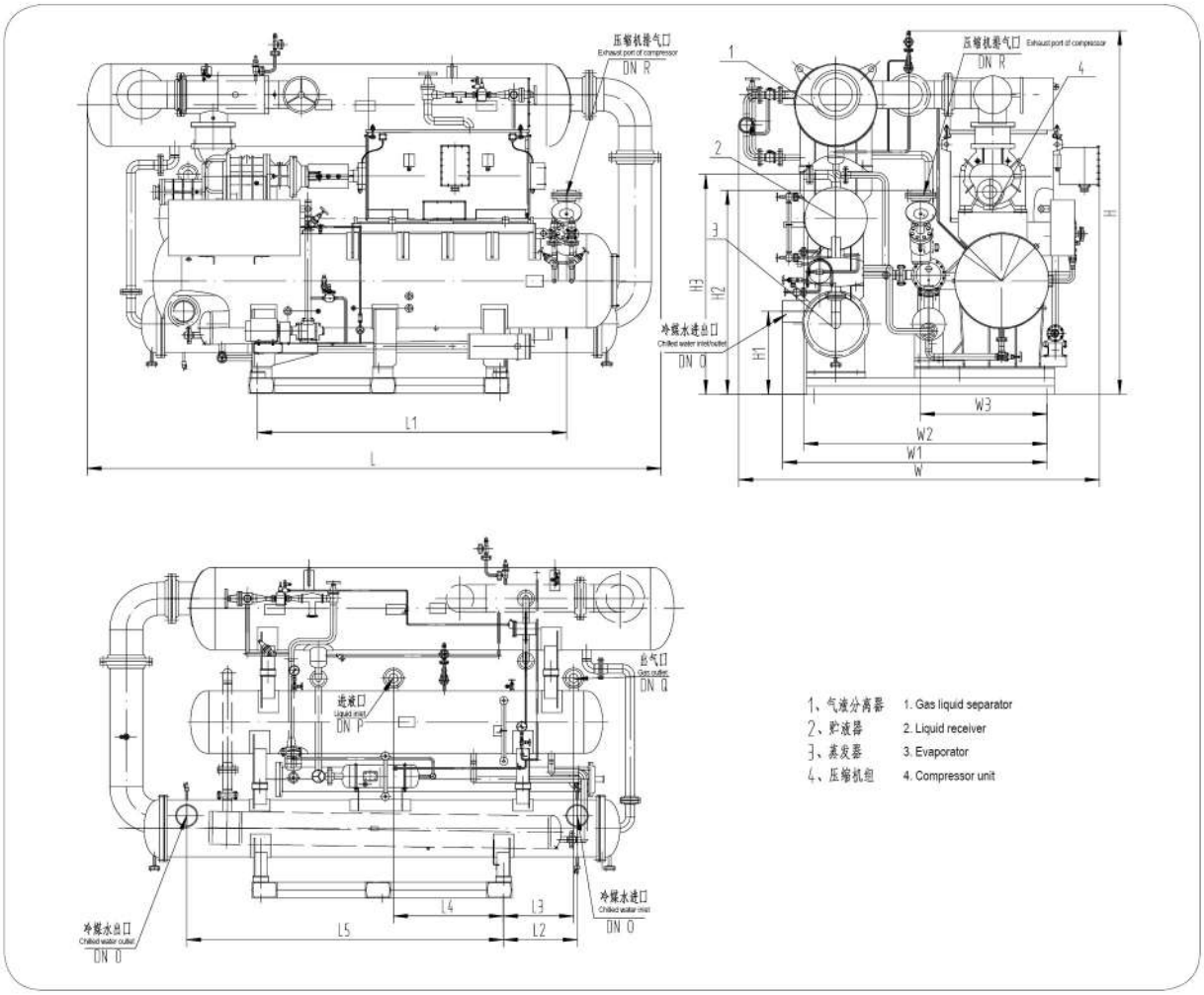
Main technical parameters of YS*HZ seires brine chiller units(R717)



	L	W	H	L1	L2	L3	L4	L5	W1	W2	W3	H1	H2	H3	O	P	Q	R
YS16MZHZA(B)	3770	2350	3140	1839	725	710	610	1960	1820	1700	667	708	1194	1970	125	50	50	80
YS16MNHZA(B)	3770	2350	3140	1839	725	710	610	1960	1820	1700	667	708	1194	1970	100	50	50	80
YS16MDHZA(B)	3770	2350	3140	1839	725	710	610	1960	1820	1700	667	608	1194	1970	80	50	50	80
YS16MCHZA(B)	3770	2350	3140	1839	725	710	610	1960	1820	1700	667	608	1194	1970	80	50	50	80
YS20MZHZA(B)	3900	2700	3400	2034	550	710	610	2135	2120	2060	792	858	1440	2370	150	65	65	100
YS20MNHZA(B)	3900	2700	3400	2034	550	710	610	2135	2120	2060	792	808	1440	2370	150	65	65	100
YS20MDHZA(B)	3900	2700	3200	2034	550	710	610	2135	2020	1890	792	708	1440	2170	125	65	65	100
YS20MCHZA(B)	3900	2700	3200	2034	550	710	610	2135	2020	1890	792	608	1440	2170	100	65	65	100
YS1612CHZA	3770	2350	3140	1839	725	710	610	1960	1820	1700	667	608	1194	1970	80	50	50	80
YS2016CHZA	3900	2700	3200	2034	550	710	610	2135	2020	1890	792	608	1440	2170	100	65	65	100

YS*HZ 系列盐水机组外形图（制冷剂 R717）

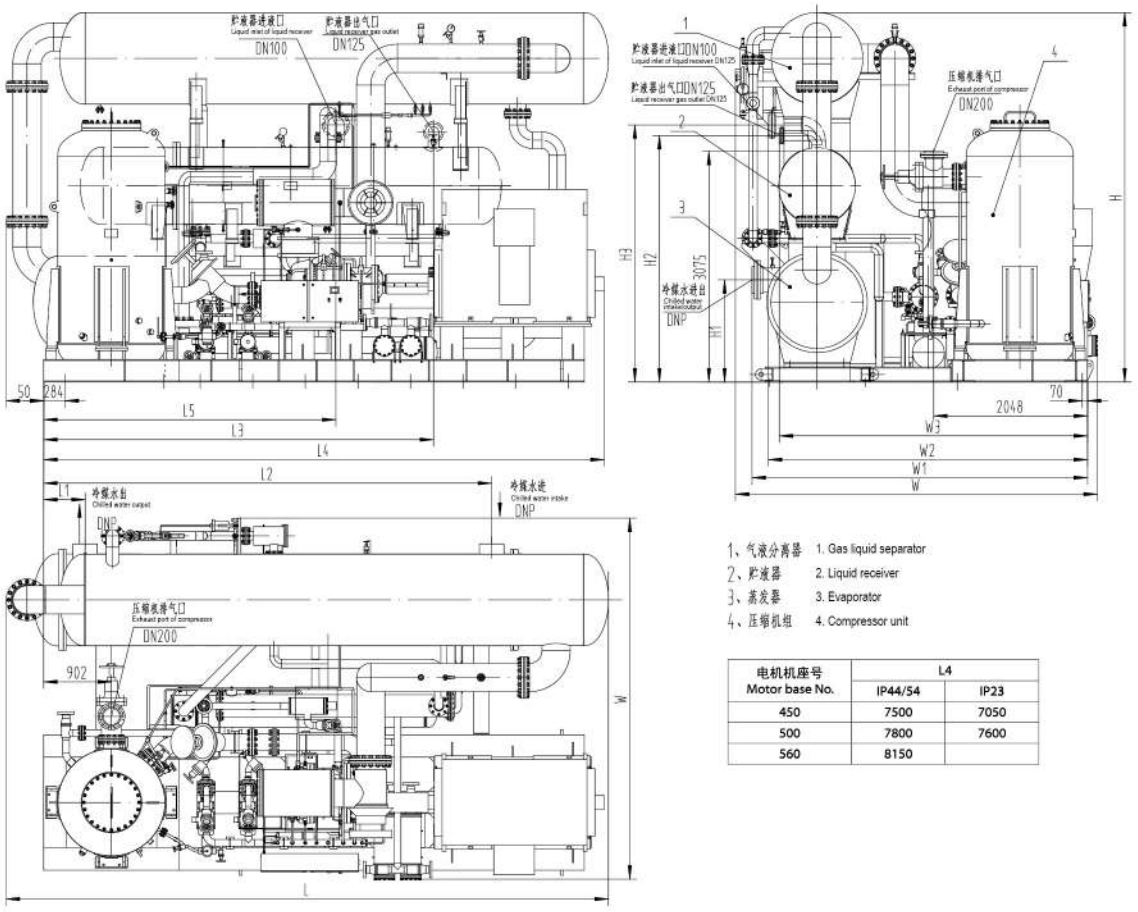
Main technical parameters of YS*HZ seires brine chiller units(R717)



	L	W	H	L1	L2	L3	L4	L5	W1	W2	W3	H1	H2	H3	O	P	Q	R
YS25SZHZA(B)	5700	3750	3900	3054	730	694	1086	3130	2750	2285	1245	999	1920	2635	200	80	80	150
YS25SNHZA(B)	5672	3565	3820	3054	730	694	1086	3130	2610	2285	1245	899	1920	2535	200	80	80	150
YS25SDHZA(B)	5672	3565	3462	3054	730	694	1086	3130	2610	2285	1245	824	1920	2178	150	80	80	150
YS25SCHZA(B)	5672	3565	3362	3054	730	694	1086	3130	2610	2285	1245	666	1920	2078	125	80	80	150
YS25MZHZA(B)	5700	3750	4000	3054	730	694	1086	3130	2750	2285	1245	1049	1920	2735	250	80	80	150
YS25MNHZA(B)	5672	3565	3930	3054	730	694	1086	3130	2610	2285	1245	953	1920	2585	200	80	80	150
YS25MDHZA(B)	5672	3565	3512	3054	730	694	1086	3130	2610	2285	1245	949	1920	2228	200	80	80	150
YS25MCHZA(B)	5672	3565	3412	3054	730	694	1086	3130	2610	2285	1245	716	1920	2128	150	80	80	150
YS25LZHZA(B)	5700	3750	4400	3054	730	694	1086	3130	2850	2285	1245	1159	1920	2835	250	80	80	150
YS25LNHZA(B)	5700	3750	4200	3054	730	694	1086	3130	2750	2285	1245	999	1920	2635	250	80	80	150
YS25LDHZA(B)	5672	3565	3720	3054	730	694	1086	3130	2610	2285	1245	899	1920	2335	200	80	80	150
YS25LCHZA(B)	5672	3565	3562	3054	730	694	1086	3130	2610	2285	1245	824	1920	2178	200	80	80	150
YS2520CHZA	5672	3565	3412	3054	730	694	1086	3130	2610	2285	1245	716	1920	2128	150	80	80	150

YS*HZ 系列盐水机组外形图（制冷剂 R717）

Main technical parameters of YS*HZ seires brine chiller units(R717)



1、气液分离器 1. Gas liquid separator
2、贮液器 2. Liquid receiver
3、蒸发器 3. Evaporator
4、压缩机组 4. Compressor unit

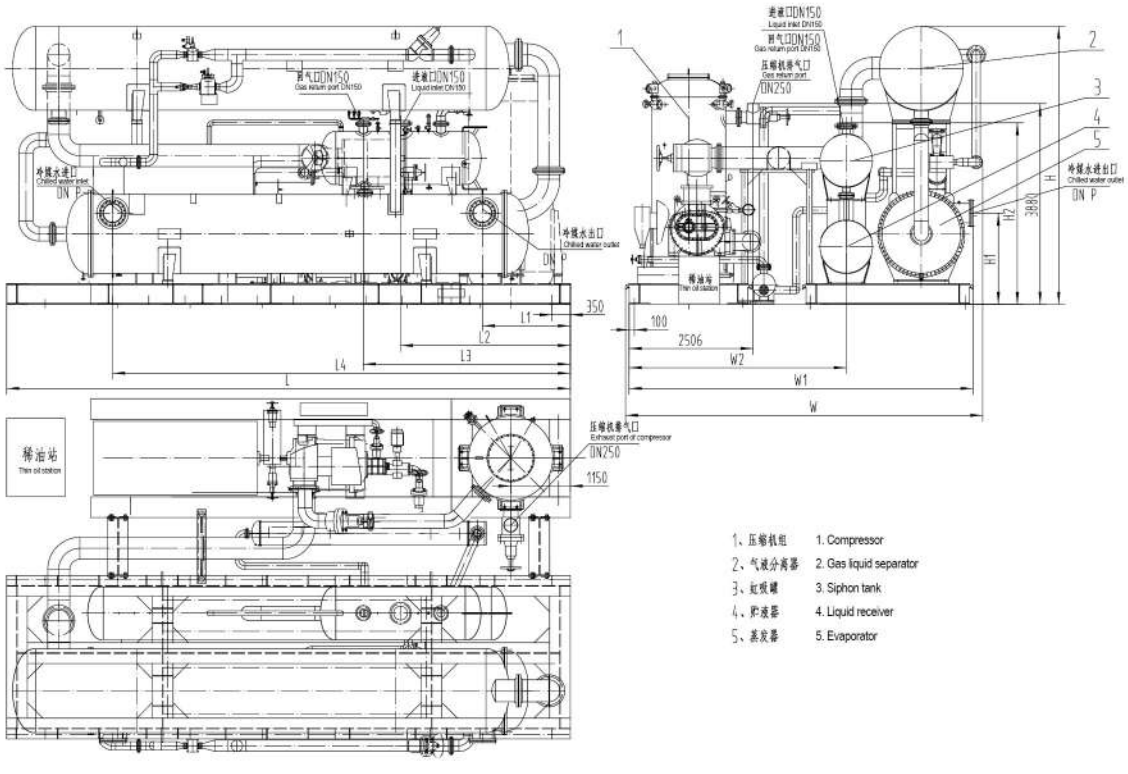
电机机座号 Motor base No.	L4	
	IP44/54	IP23
450	7500	7050
500	7800	7600
560	8150	

注：32 系列压缩机组的配置差别较大，外形图仅供结构参考，最终尺寸以图纸设计为准
Note: Because of a large difference in the configuration of series 32 compressor units, the outline drawing is used for structure reference only and the final dimensions shall be based on the drawing design.

	L	W	H	L1	L2	L3	L5	W1	W2	W3	H1	H2	H3	P
YS32SZHZA(B)	7840	4750	4100	870	6420	5625	4325	4200	3900	4000	1215	2780	2780	300
YS32SNHZA(B)	7735	4750	4000	837	6447	5625	4325	4150	3900	4000	1115	2680	2680	250
YS32SDHZA(B)	7660	4750	3800	905	6448	5625	4325	4050	3900	4000	990	2480	2480	200
YS32SCHZA(B)	7660	4750	3800	905	6448	5625	4325	4000	3900	4000	965	2380	2380	200
YS32MZHZA(B)	7845	4850	4200	1077	6491	5625	4325	4250	3900	4000	1315	2880	2880	300
YS32MNHZA(B)	7840	4850	4100	870	6420	5625	4325	4200	3900	4000	1215	2780	2780	250
YS32MDHZA(B)	7820	4750	3900	837	6447	5625	4325	4100	3900	4000	1090	2580	2580	250
YS32MCHZA(B)	7660	4750	3800	915	6525	5625	4325	3950	3900	4000	915	2300	2300	200
YS32LZHZA(B)	7840	4950	4500	1190	6550	5625	4325	4300	3900	4000	1415	2980	2980	350
YS32LNHZA(B)	7840	4950	4300	1000	6415	5625	4325	4200	3900	4000	1215	2780	2780	300
YS32LDHZA(B)	7740	4850	4100	870	6420	5625	4325	4100	3900	4000	1090	2580	2580	250
YS32LCHZA(B)	7660	4850	3900	947	6497	5625	4325	4000	3900	4000	965	2380	2380	250
YS3225CHZA	7660	4850	3900	947	6497	5625	4325	4000	3900	4000	965	2380	2380	250

YS*HZ 系列盐水机组外形图（制冷剂 R717）

Main technical parameters of YS*HZ seires brine chiller units(R717)



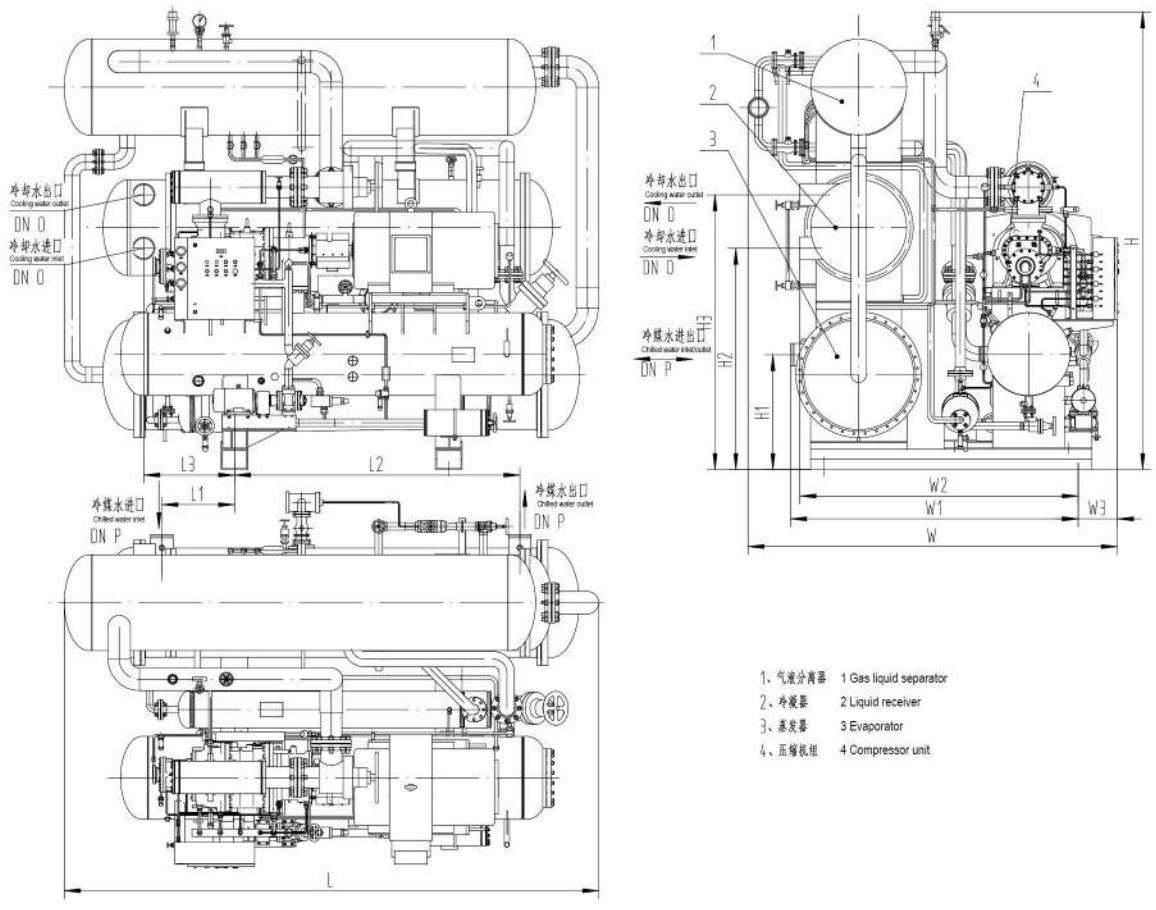
注：40 系列压缩机组的配置差别较大，外形图仅供结构参考，最终尺寸以图纸设计为准

Note: Because of a large difference in the configuration of series 40 compressor units, the outline drawing is used for structure reference only and the final dimensions shall be based on the drawing design.

	L	W	H	L1	L2	L3	L4	W1	W2	H1	H2	P
YS40SZHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1512	3508	400
YS40SNHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1362	3508	300
YS40SDHZA(B)	10900	6900	4600	1690	3280	4002	8850	6500	4200	1312	3508	300
YS40SCHZA(B)	10900	6900	4500	1690	3280	4002	8850	6350	4200	1072	3508	250
YS40MZHZA(B)	10900	6900	4900	1690	3280	4002	8850	6580	4200	1662	3508	400
YS40MNHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1642	3508	350
YS40MDHZA(B)	10900	6900	4600	1690	3280	4002	8850	6500	4200	1312	3508	300
YS40MCHZA(B)	10900	6900	4700	1690	3280	4002	8850	6450	4200	1262	3508	250

YS*HS 系列盐水机组外形图（制冷剂 R22）

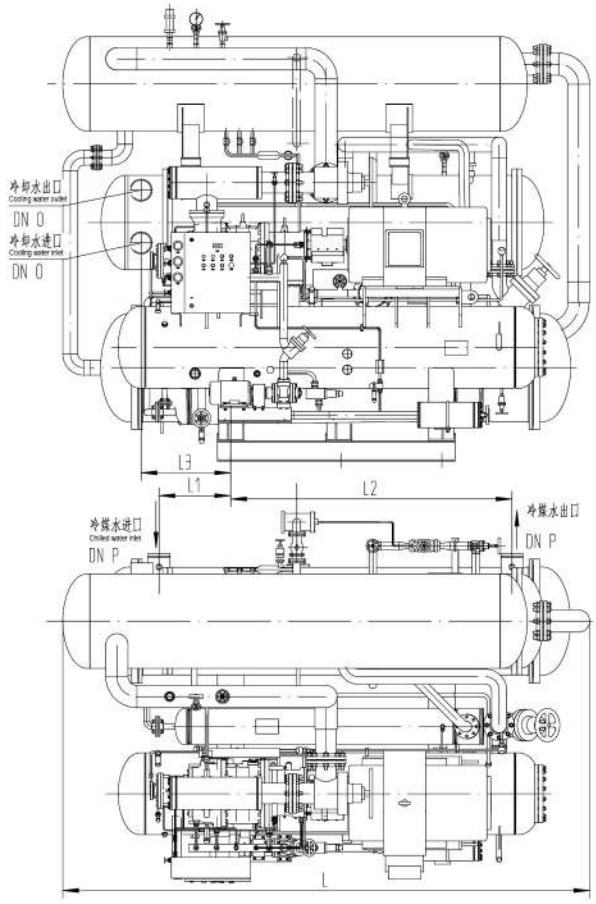
Main technical parameters of YS*HS seires brine chiller units(R22)

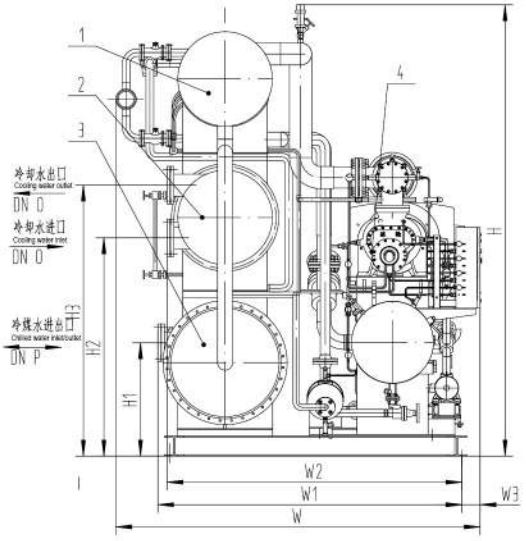


	L	W	H	L1	L2	L3	W1	W2	W3	H1	H2	H3	O	P
YS16MZHSA(B)	3809	2312	2982	700	1934	771	1745	1665	309	806	1452	1747	125	125
YS16MNHSA(B)	3770	2356	2858	725	1959	770	1750	1710	309	708	1327	1587	100	100
YS16MDHSA(B)	3770	2356	2858	725	1959	770	1750	1710	309	708	1327	1587	100	100
YS16MCHSA(B)	3735	2377	2800	745	1979	744	1770	1700	309	681	1263	1513	100	80
YS20MZHSA(B)	3992	2760	3420	542	2134	673	2150	2080	292	858	1195	1595	150	150
YS20MNHSA(B)	3988	2750	3336	542	2134	698	2157	2057	292	808	1613	1953	150	125
YS20MDHSA(B)	3988	2750	3336	542	2134	698	2157	2057	292	808	1613	1953	150	125
YS20MCHSA(B)	3975	2730	3050	542	2134	665	2145	2065	228	808	1448	1743	125	125
YS1612CHSA	3735	2377	2800	745	1979	744	1770	1700	309	681	1263	1513	100	80
YS2016CHSA	3975	2730	3050	542	2134	665	2145	2065	228	808	1448	1743	125	125

YS*HS 系列盐水机组外形图（制冷剂 R22）

Main technical parameters of YS*HS seires brine chiller units(R22)



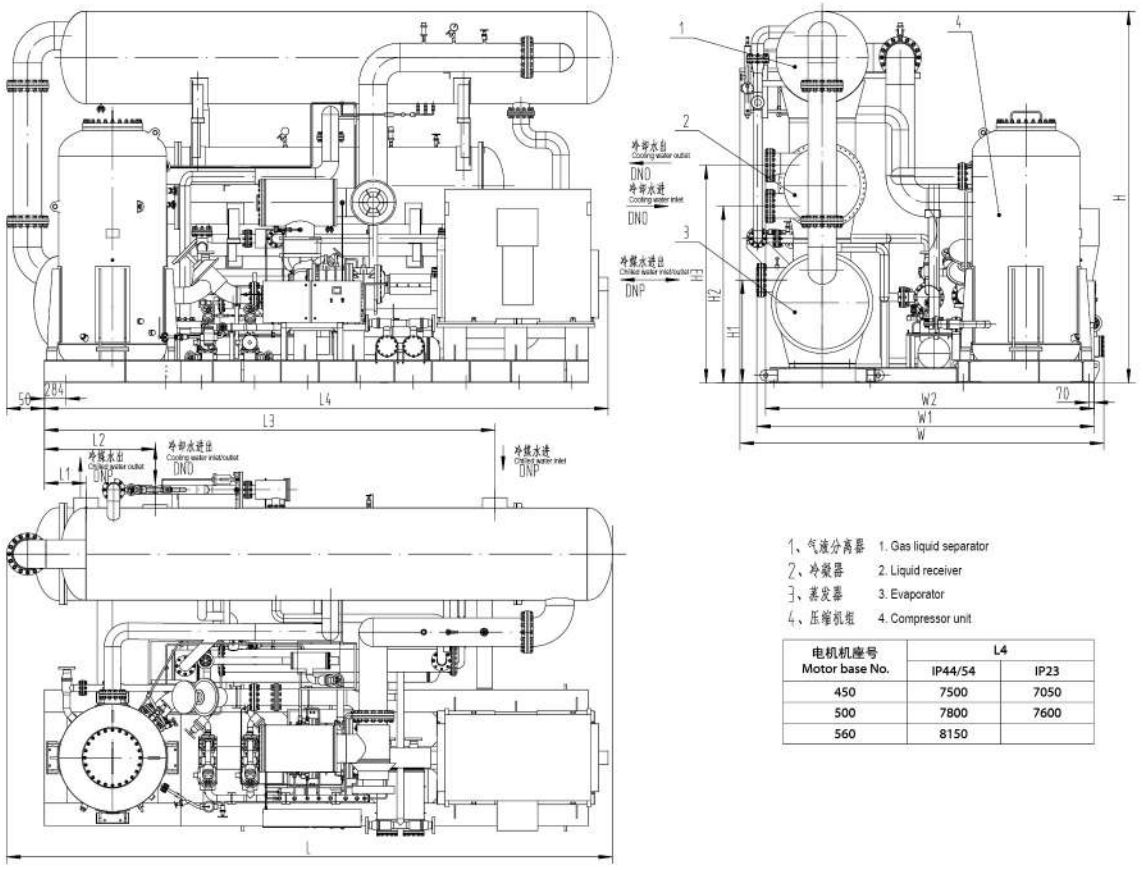


1、气液分离器 1. Gas liquid separator
2、冷凝器 2. Liquid receiver
3、蒸发器 3. Evaporator
4、压缩机组 4. Compressor unit

	L	W	H	L1	L2	L3	W1	W2	W3	H1	H2	H3	O	P
YS25SZHSA(B)	5855	3620	4260	727	3127	872	2647	2600	525	1074	1934	2314	250	200
YS25SNHSA(B)	5714	3190	3675	727	3127	985	2515	2435	375	1022	1814	2224	200	200
YS25SDHSA(B)	5714	3290	3675	727	3127	913	2540	2350	450	1022	1849	2189	150	150
YS25SCHSA(B)	5714	3290	3575	790	3190	963	2415	2350	450	922	1749	2089	150	150
YS25MZHSA(B)	5940	3550	4260	728	3128	999	2645	2595	620	1174	2014	2524	250	250
YS25MNHSA(B)	5855	3520	4260	727	3127	872	2647	2600	525	1074	1934	2314	250	200
YS25MDHSA(B)	5714	3290	3675	727	3127	985	2565	2485	425	1022	1814	2224	200	200
YS25MCHSA(B)	5714	3290	3675	727	3127	913	2540	2350	450	1022	1849	2189	150	150
YS25LZHSA(B)	6110	3880	4770	712	3112	1027	2935	2885	625	1236	2206	2716	250	250
YS25LNHSA(B)	6030	3730	4380	728	3128	999	2795	2745	520	1174	2014	2524	250	250
YS25LDHSA(B)	5855	3630	4260	727	3127	872	2772	2010	400	1074	1944	2324	250	200
YS25LCHSA(B)	5855	3630	4260	727	3127	945	2772	2065	400	1074	1944	2309	200	200
YS2520CHSA	5714	3290	3675	727	3127	913	2540	2350	450	1022	1849	2189	150	150

YS*HS 系列盐水机组外形图（制冷剂 R22）

Main technical parameters of YS*HS seires brine chiller units(R22)



1、气液分离器 1. Gas liquid separator
2、冷凝器 2. Liquid receiver
3、蒸发器 3. Evaporator
4、压缩机组 4. Compressor unit

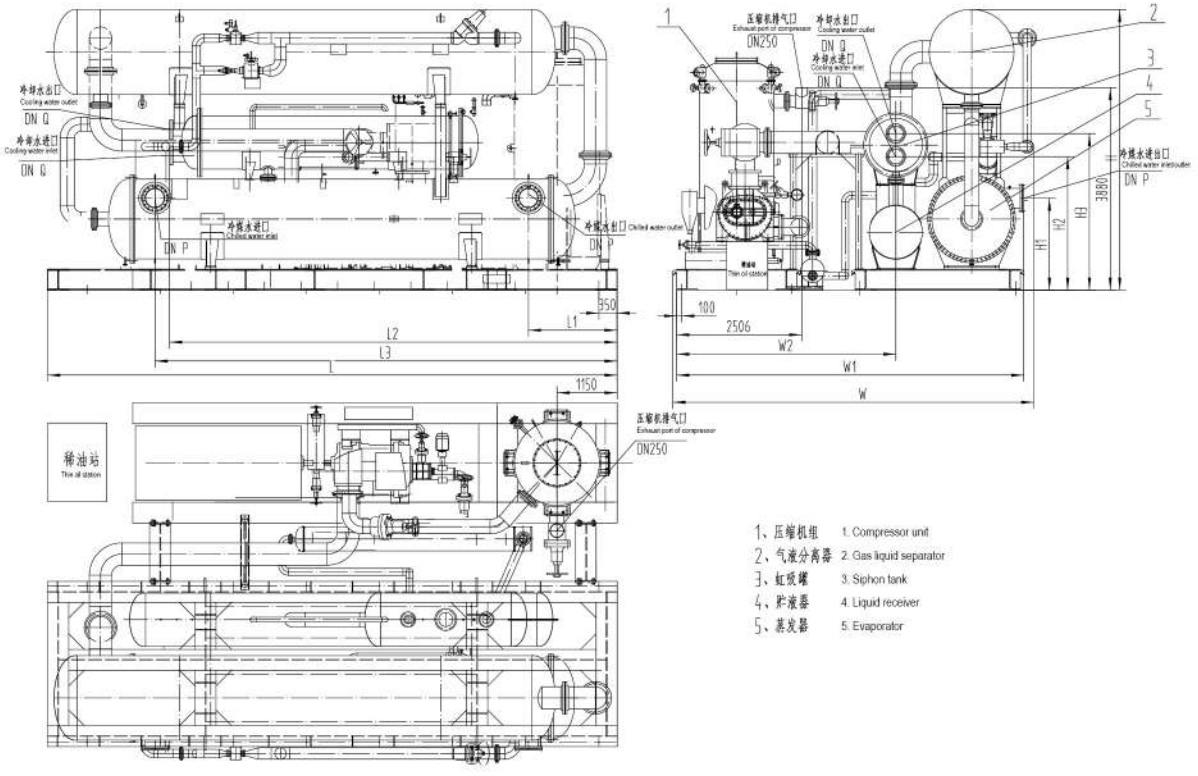
电机机座号 Motor base No.	L4	
	IP44/54	IP23
450	7500	7050
500	7800	7600
560	8150	

注：32 系列压缩机组的配置差别较大，外形图仅供结构参考，最终尺寸以图纸设计为准
Note: Because of a large difference in the configuration of series 32 compressor units, the outline drawing is used for structure reference only and the final dimensions shall be based on the drawing design.

	L	W	H	L1	L2	L3	W1	W2	H1	H2	H3	O	P
YS32SZHSA(B)	7735	4785	4730	870	1862	6420	4450	4405	1260	2320	2860	300	300
YS32SNHSA(B)	7735	4785	4730	837	1862	6447	4373	4354	1210	2316	2826	250	250
YS32SDHSA(B)	7660	4785	4265	905	1910	6448	4290	4254	1158	2187	2582	200	200
YS32SCHSA(B)	7660	4785	4165	905	1968	6448	4290	4214	1158	2090	2470	200	200
YS32MZHSA(B)	7845	4835	5285	1077	2033	6491	4454	4404	1462	2572	3122	300	300
YS32MNHSA(B)	7840	4950	4790	870	1862	6420	4450	4405	1260	2320	2860	300	250
YS32MDHSA(B)	7820	4950	4790	837	1862	6447	4373	4354	1210	2316	2826	250	250
YS32MCHSA(B)	7845	4950	4500	915	2012	6525	4373	4354	1210	2287	2682	200	200
YS32LZHSA(B)	7845	4950	5610	1190	1995	6550	4604	4550	1460	2706	3354	350	350
YS32LNHSA(B)	7840	4950	4890	1000	1862	6415	4405	4405	1412	2368	2908	300	300
YS32LDHSA(B)	7840	4950	4790	870	1862	6420	4450	4405	1260	2320	2860	300	250
YS32LCHSA(B)	7820	4950	4790	947	1920	6497	4454	4354	1268	2326	2810	250	250
YS3225CHSA	7820	4950	4790	947	1920	6497	4454	4354	1268	2326	2810	250	250

YS*HS 系列盐水机组外形图（制冷剂 R22）

Main technical parameters of YS*HS seires brine chiller units(R22)



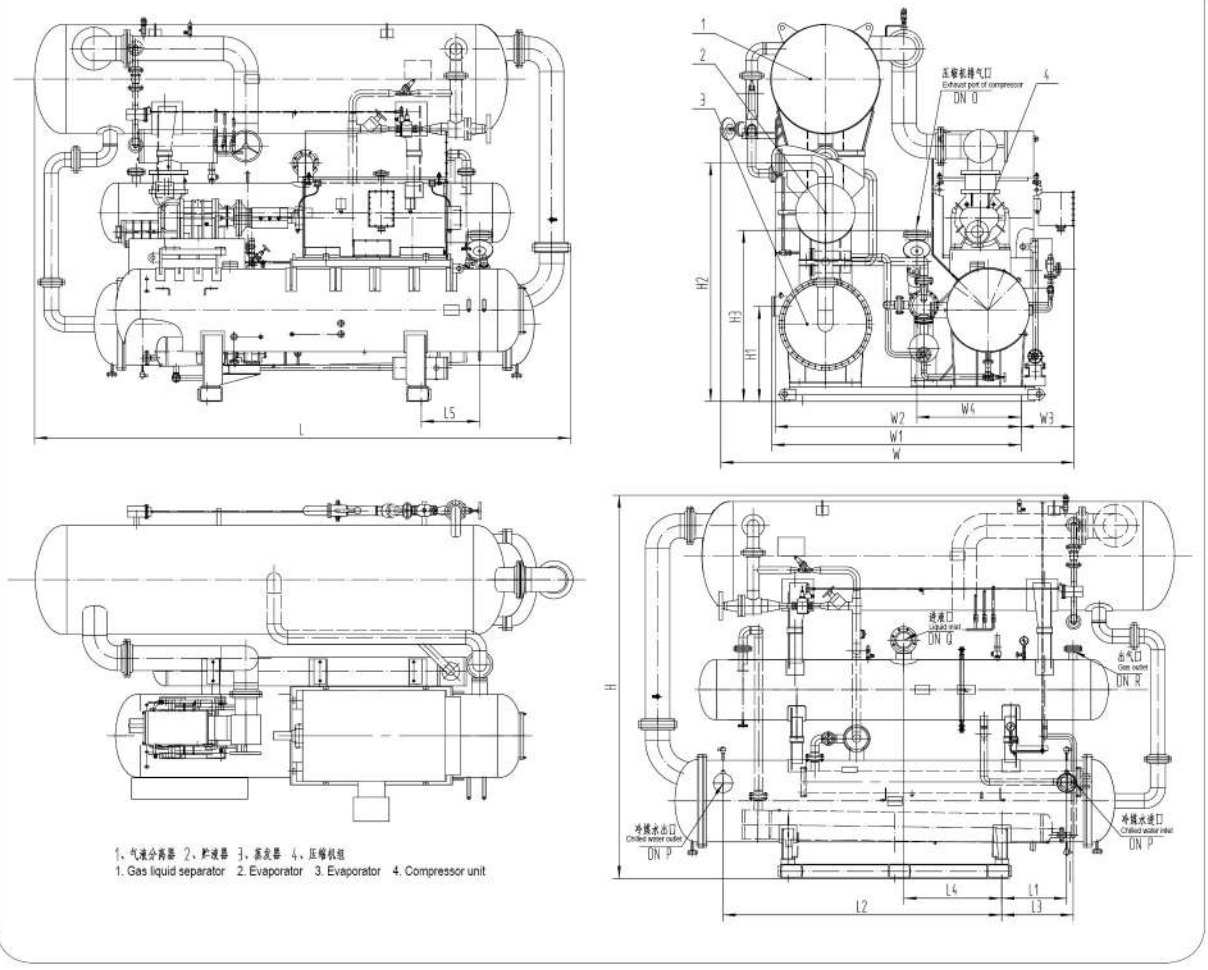
注：40 系列压缩机组的配置差别较大，外形图仅供结构参考，最终尺寸以图纸设计为准

Note: Because of a large difference in the configuration of series 40 compressor units, the outline drawing is used for structure reference only and the final dimensions shall be based on the drawing design.

	L	W	H	L1	L2	L3	W1	W2	H1	H2	H3	O	P
YS40SZHSA(B)	10900	6900	5300	1690	8700	8850	6650	4200	1662	2600	3253	400	400
YS40SNHSA(B)	10900	6900	4800	1690	8700	8850	6580	4200	1512	2600	3204	350	350
YS40SDHSA(B)	10900	6900	4800	1690	8700	8850	6580	4200	1642	2600	3204	300	300
YS40SCHSA(B)	10900	6900	4800	1690	8700	8850	6580	4200	1362	2600	3106	250	300
YS40MZHSA(B)	10900	6900	5374	1690	8700	8850	6650	4200	1662	2600	3272	400	450
YS40MNHSA(B)	10900	6900	4800	1690	8700	8850	6580	4200	1512	2600	3253	350	400
YS40MDHSA(B)	10900	6900	4800	1690	8700	8850	6580	4200	1512	2600	3204	350	350
YS40MCHSA(B)	10900	6900	4800	1690	8700	8850	6580	4200	1642	2600	3204	300	300

YS*HZ 系列盐水机组外形图（制冷剂 R22）

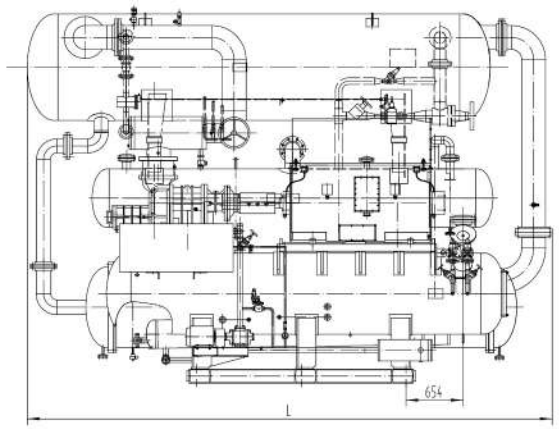
Main technical parameters of YS*HZ seires brine chiller units(R22)

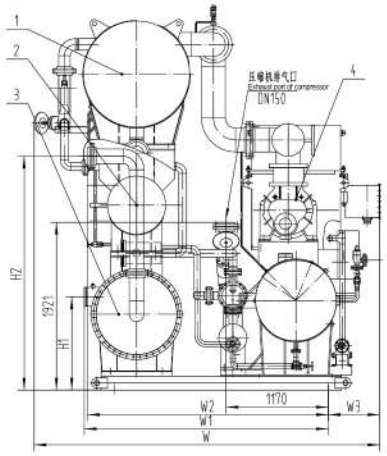


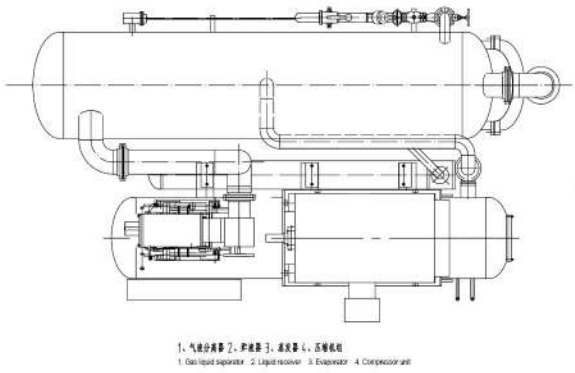
	L	W	H	L1	L2	L3	L4	L5	W1	W2	W3	W4	H1	H2	H3	O	P	Q	R
YS16MZHZA(B)	3809	2312	2982	700	1934	748	749	589	1745	1275	309	676	806	1935	1194	80	125	80	50
YS16MNHZA(B)	3770	2356	2858	725	1959	762	736	589	1750	1370	309	676	708	1810	1194	80	100	80	50
YS16MDHZA(B)	3770	2356	2858	725	1959	762	736	589	1750	1370	309	676	708	1810	1194	80	100	80	50
YS16MCHZA(B)	3735	2377	2800	745	1979	744	754	589	1770	1390	309	676	681	1736	1194	80	80	80	50
YS20MZHZA(B)	3992	2760	3420	542	2134	490	850	434	2150	1910	292	940	858	2343	1440	100	150	125	65
YS20MNHZA(B)	3988	2750	3336	542	2134	505	835	434	2157	1951	292	840	808	2293	1440	100	125	125	65
YS20MDHZA(B)	3988	2750	3336	542	2134	505	835	434	2157	1951	292	840	808	2293	1440	100	125	125	65
YS20MCHZA(B)	3975	2730	3050	542	2134	495	832	434	2145	1995	228	840	808	2213	1440	100	125	125	65
YS1612CHZA	3735	2377	2800	745	1979	744	754	589	1770	1390	309	676	681	1736	1194	80	80	80	50
YS2016CHZA	3975	2730	3050	542	2134	495	832	434	2145	1995	228	840	808	2213	1440	100	125	125	65

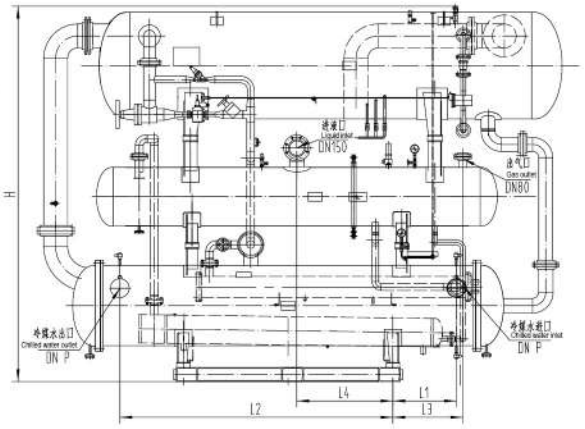
YS*HZ 系列盐水机组外形图（制冷剂 R22）

Main technical parameters of YS*HZ seires brine chiller units(R22)





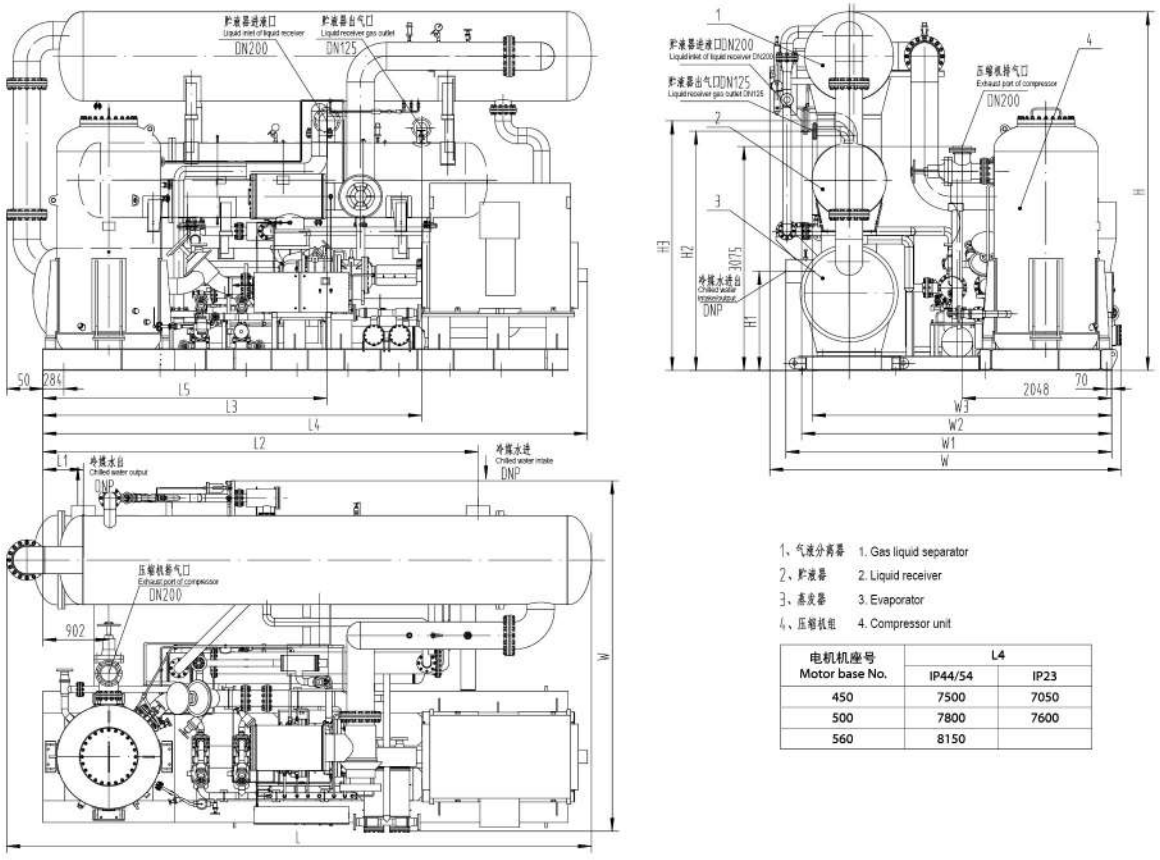




	L	W	H	L1	L2	L3	L4	W1	W2	W3	H1	H2	P
YS25SZHZA(B)	5855	3620	4260	727	3127	800	1100	2647	2600	525	1074	2677	200
YS25SNHZA(B)	5714	3190	3675	727	3127	800	1100	2515	2435	375	1022	2620	200
YS25SDHZA(B)	5714	3290	3675	727	3127	800	1100	2540	2350	450	1022	2620	150
YS25SCHZA(B)	5714	3290	3575	790	3190	800	1100	2415	2350	450	922	2520	150
YS25MZHZA(B)	5940	3550	4260	728	3128	800	1100	2645	2595	620	1174	2777	250
YS25MNHZA(B)	5855	3520	4260	727	3127	800	1100	2647	2600	525	1074	2677	200
YS25MDHZA(B)	5714	3290	3675	727	3127	800	1100	2565	2485	425	1022	2620	200
YS25MCHZA(B)	5714	3290	3675	727	3127	800	1100	2540	2350	450	1022	2620	150
YS25LZHZA(B)	6110	3880	4770	712	3112	800	1100	2935	2885	625	1236	2850	250
YS25LNHZA(B)	6030	3730	4380	728	3128	800	1100	3795	2745	520	1174	2777	250
YS25LDHZA(B)	5855	3630	4260	727	3127	800	1100	2772	2010	400	1074	2677	200
YS25LCHZA(B)	5855	3630	4260	727	3127	800	1100	2772	2065	400	1074	2677	200
YS2520CHZA	5714	3290	3675	727	3127	800	1100	2540	2350	450	1022	2620	150

YS*HZ 系列盐水机组外形图（制冷剂 R22）

Main technical parameters of YS*HZ seires brine chiller units(R22)



电机机座号 Motor base No.	L4	
	IP44/54	IP23
450	7500	7050
500	7800	7600
560	8150	

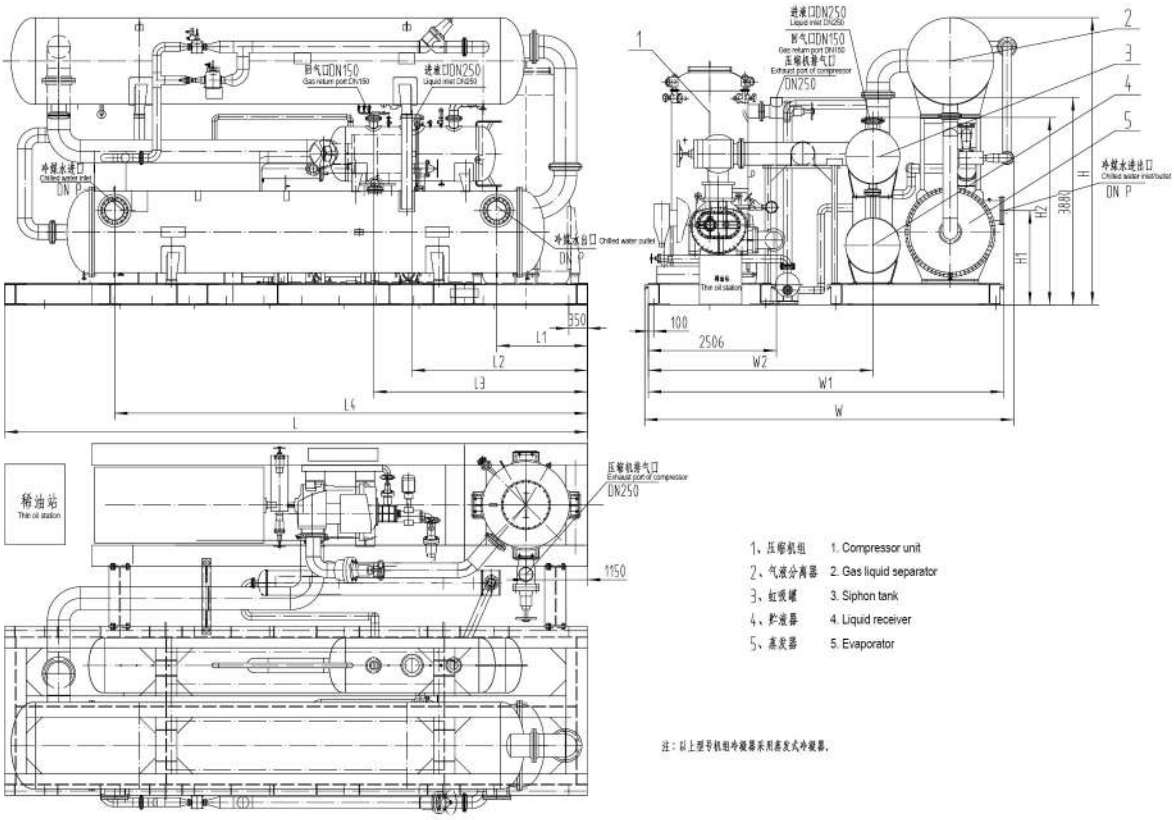
注：32 系列压缩机组的配置差别较大，外形图仅供结构参考，最终尺寸以图纸设计为准

Note: Because of a large difference in the configuration of series 32 compressor units, the outline drawing is used for structure reference only and the final dimensions shall be based on the drawing design.

	L	W	H	L1	L2	L3	L5	W1	W2	W3	H1	H2	H3	P
YS32SZHZA(B)	7735	4665	4730	870	6420	5625	4325	4450	4254	4054	1260	3305	3400	300
YS32SNHZA(B)	7735	4665	4730	837	6447	5625	4325	4373	4254	4054	1210	3205	3300	250
YS32SDHZA(B)	7660	4665	4265	905	6448	5625	4325	4290	4254	4054	1158	2905	3000	200
YS32SCHZA(B)	7660	4665	4165	905	6448	5625	4325	4290	4254	4054	1158	2905	3000	200
YS32MZHZA(B)	7845	4715	5285	1077	6491	5625	4325	4454	4254	4054	1462	3505	3600	300
YS32MNHZA(B)	7840	4830	4790	870	6420	5625	4325	4450	4254	4054	1260	3305	3400	250
YS32MDHZA(B)	7820	4830	4790	837	6447	5625	4325	4373	4254	4054	1210	3005	3100	250
YS32MCHZA(B)	7845	4830	4500	915	6525	5625	4325	4373	4254	4054	1210	3005	3100	200
YS32LZHZA(B)	7845	4830	5610	1190	6550	5625	4325	4604	4254	4054	1460	3705	3800	350
YS32LNHZA(B)	7840	4830	4890	1000	6415	5625	4325	4405	4254	4054	1412	3505	3600	300
YS32LDHZA(B)	7840	4830	4790	870	6420	5625	4325	4450	4254	4054	1260	3205	3300	250
YS32LCHZA(B)	7820	4830	4790	947	6497	5625	4325	4454	4254	4054	1268	3205	3300	250
YS3225CHZA	7820	4830	4790	947	6497	5625	4325	4454	4254	4054	1268	3205	3300	250

YS*HZ 系列盐水机组外形图（制冷剂 R22）

Main technical parameters of YS*HZ seires brine chiller units(R22)

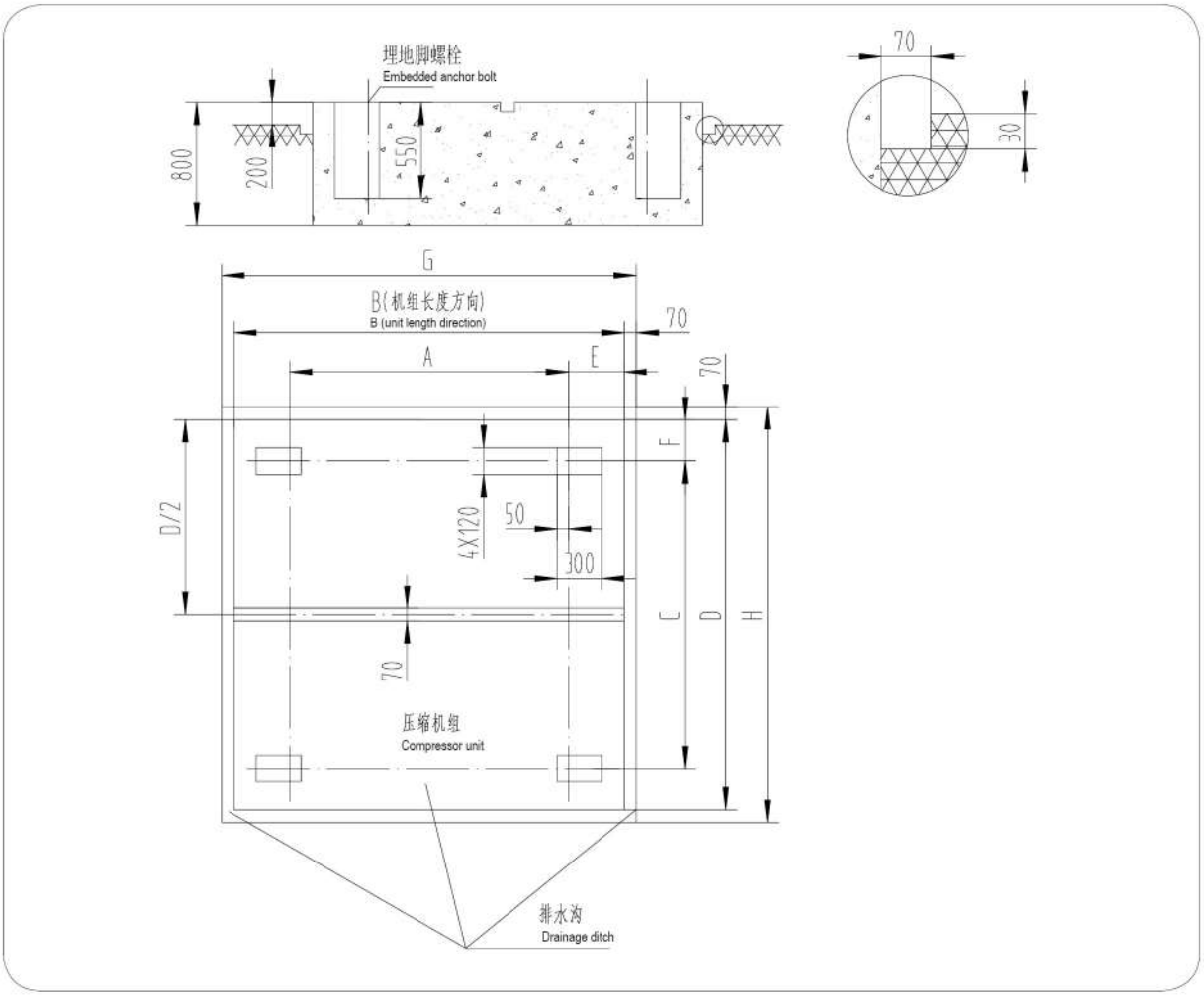


注：40 系列压缩机组的配置差别较大，外形图仅供结构参考，最终尺寸以图纸设计为准

Note: Because of a large difference in the configuration of series 40 compressor units, the outline drawing is used for structure reference only and the final dimensions shall be based on the drawing design.

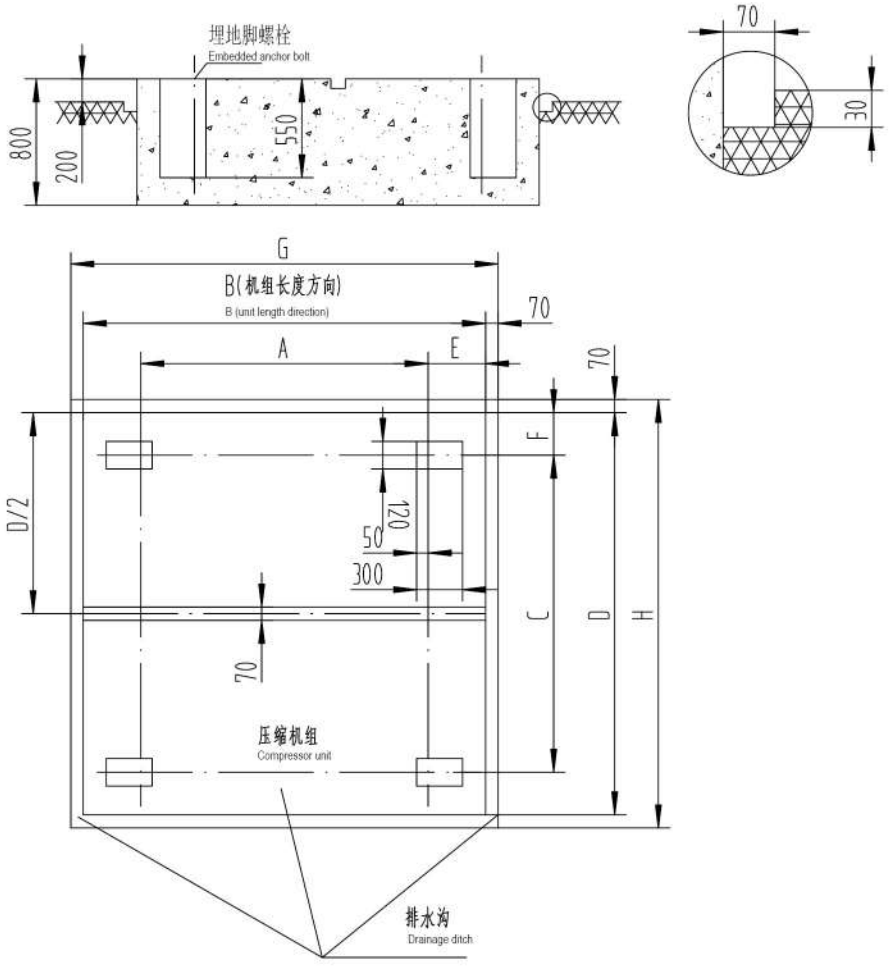
	L	W	H	L1	L2	L3	L4	W1	W2	H1	H2	P
YS40SZHZA(B)	10900	6900	5300	1690	3280	4002	8850	6650	4200	1662	3508	400
YS40SNHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1512	3508	350
YS40SDHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1642	3508	300
YS40SCHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1362	3508	250
YS40MZHZA(B)	10900	6900	5374	1690	3280	4002	8850	6650	4200	1662	3508	400
YS40MNHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1512	3508	350
YS40MDHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1512	3508	350
YS40MCHZA(B)	10900	6900	4800	1690	3280	4002	8850	6580	4200	1642	3508	300

YS*HS 系列盐水机组基础图（制冷剂 R717）
Foundation drawing of YS*HS seires brine chiller units(R717)



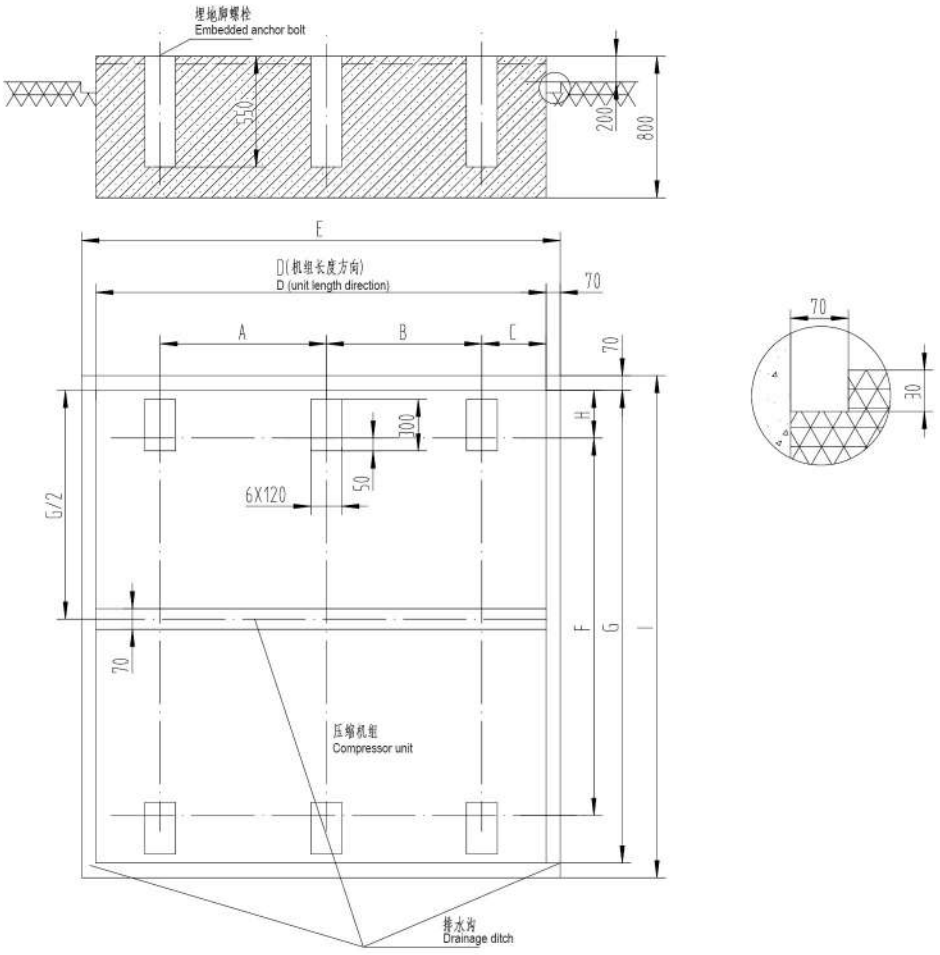
	A	B	C	D	E	F	G	H
YS16MZHSA(B)	1250	2600	2400	3000	675	200	2740	3140
YS16MNHSA(B)	1250	2600	2400	3000	675	200	2740	3140
YS16MDHSA(B)	1250	2600	2400	3000	675	200	2740	3140
YS16MCHSA(B)	1250	2600	2400	3000	675	200	2740	3140
YS20MZHSA(B)	1600	3000	2400	3100	700	650	3140	3240
YS20MNHSA(B)	1600	3000	2400	3100	700	650	3140	3240
YS20MDHSA(B)	1600	3000	2400	3100	700	650	3140	3240
YS20MCHSA(B)	1600	3000	2400	3100	700	650	3140	3240

YS*HZ 系列盐水机组基础图（制冷剂 R717）
Foundation drawing of YS*HZ seires brine chiller units(R717)



	A	B	C	D	E	F	G	H
YS16MZHZA(B)	1250	2600	1450	2100	675	325	2740	2240
YS16MNHZA(B)	1250	2600	1450	2100	675	325	2740	2240
YS16MDHZA(B)	1250	2600	1450	2100	675	325	2740	2240
YS16MCHZA(B)	1250	2600	1450	2100	675	325	2740	2240
YS20MZHZA(B)	1600	3000	1900	2500	700	300	3140	2640
YS20MNHZA(B)	1600	3000	1900	2500	700	300	3140	2640
YS20MDHZA(B)	1600	3000	1900	2500	700	300	3140	2640
YS20MCHZA(B)	1600	3000	1900	2500	700	300	3140	2640
YS1612CHZA	1250	2600	1450	2100	675	325	2740	2240
YS2016CHZA	1600	3000	1900	2500	700	300	3140	2640

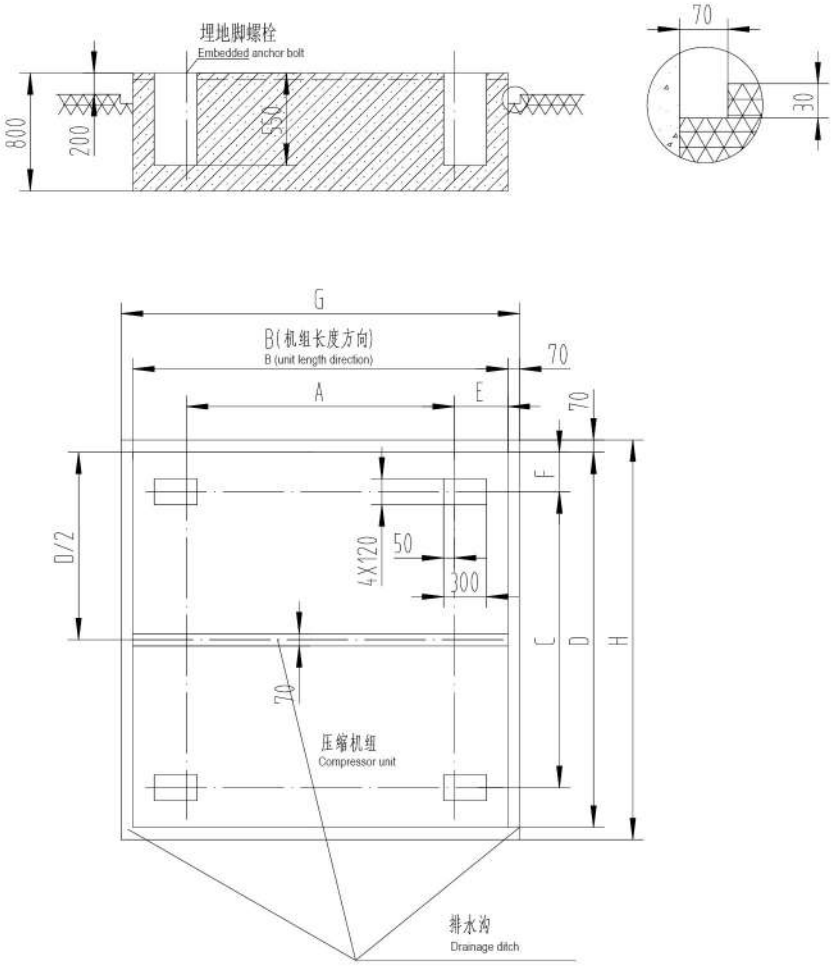
YS*HZ 系列盐水机组基础图（制冷剂 R717）
Foundation drawing of YS*HZ seires brine chiller units(R717)



	A	B	C	D	E	F	G	H	I
YS25SZHZA(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25SNHZA(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25SDHZA(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25SCHZA(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25MZHZA(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25MNHZA(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25MDHZA(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25MCHZA(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25LZHZA(B)	1200	1200	650	3700	3840	3175	3900	365	4040
YS25LNHZA(B)	1200	1200	650	3700	3840	3175	3900	365	4040
YS25LDHZA(B)	1200	1200	650	3700	3840	3175	3900	365	4040
YS25LCHZA(B)	1200	1200	650	3700	3840	3175	3900	365	4040
YS2520CHZA	1200	1200	650	3700	3840	3000	3700	350	3840

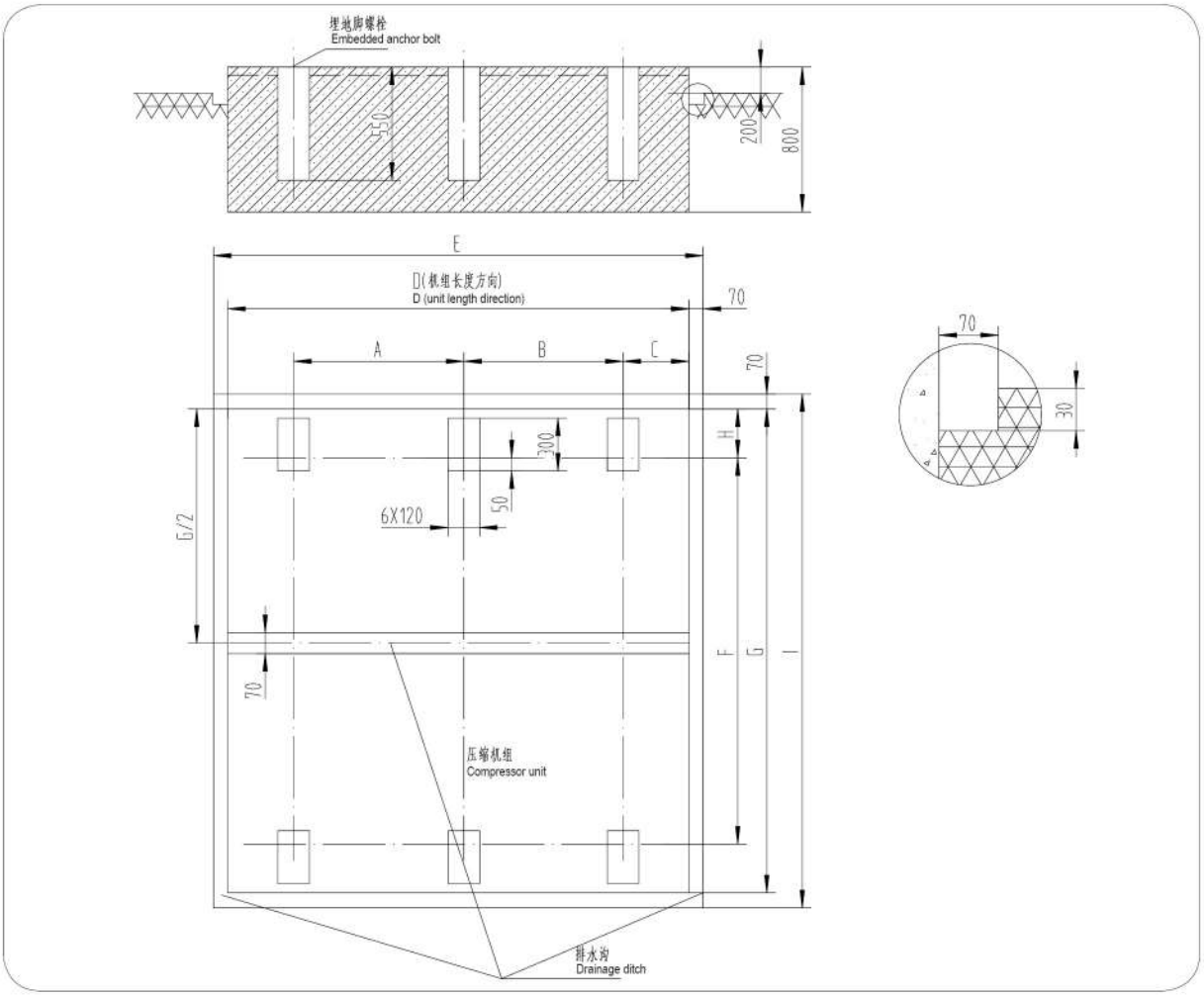
YS*H 系列盐水机组基础图（制冷剂 R22）

Foundation drawing of YS*H seires brine chiller units(R22)



	A	B	C	D	E	F	G	H
YS16MZHS(Z)A(B)	1250	2600	1450	2100	675	325	2740	2240
YS16MNHS(Z)A(B)	1250	2600	1450	2100	675	325	2740	2240
YS16MDHS(Z)A(B)	1250	2600	1450	2100	675	325	2740	2240
YS16MCHS(Z)A(B)	1250	2600	1450	2100	675	325	2740	2240
YS20MZHS(Z)A(B)	1600	3000	1900	2500	700	300	3140	2640
YS20MNHS(Z)A(B)	1600	3000	1900	2500	700	300	3140	2640
YS20MDHS(Z)A(B)	1600	3000	1900	2500	700	300	3140	2640
YS20MCHS(Z)A(B)	1600	3000	1900	2500	700	300	3140	2640
YS1612CHS(Z)A	1250	2600	1450	2100	675	325	2740	2240
YS2016CHS(Z)A	1600	3000	1900	2500	700	300	3140	2640

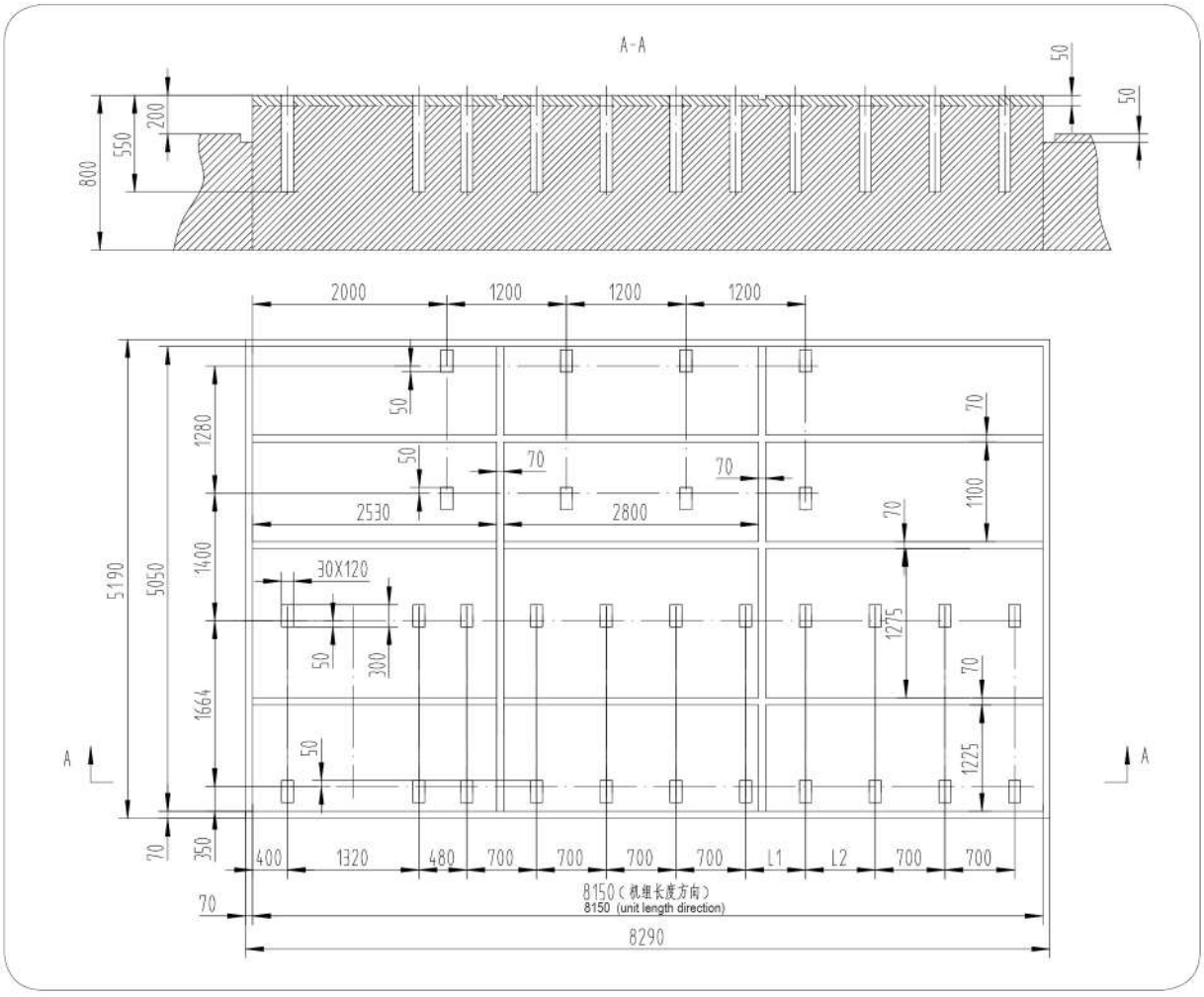
YS*H 系列盐水机组基础图（制冷剂 R22）
Foundation drawing of YS*H seires brine chiller units(R22)



	A	B	C	D	E	F	G	H	I
YS25SZHS(Z)A(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25SNHS(Z)A(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25SDHS(Z)A(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25SCHS(Z)A(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25MZHS(Z)A(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25MNHS(Z)A(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25MDHS(Z)A(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25MCHS(Z)A(B)	1200	1200	650	3700	3840	3000	3700	350	3840
YS25LZHS(Z)A(B)	1200	1200	650	3700	3840	3175	3900	365	4040
YS25LNHS(Z)A(B)	1200	1200	650	3700	3840	3175	3900	365	4040
YS25LDHS(Z)A(B)	1200	1200	650	3700	3840	3175	3900	365	4040
YS25LCHS(Z)A(B)	1200	1200	650	3700	3840	3175	3900	365	4040
YS2520CHS(Z)A	1200	1200	650	3700	3840	3000	3700	350	3840

YS*H 系列盐水机组基础图（制冷剂 R717/R22）

YS*H seires brine chiller units(R717/R22)



技术要求：

1、流水槽要给予 5/1000 的坡度。

2、请将流水槽接入地沟。

3、本基础对应的压缩机为 LG325、LG32M、LG32L。

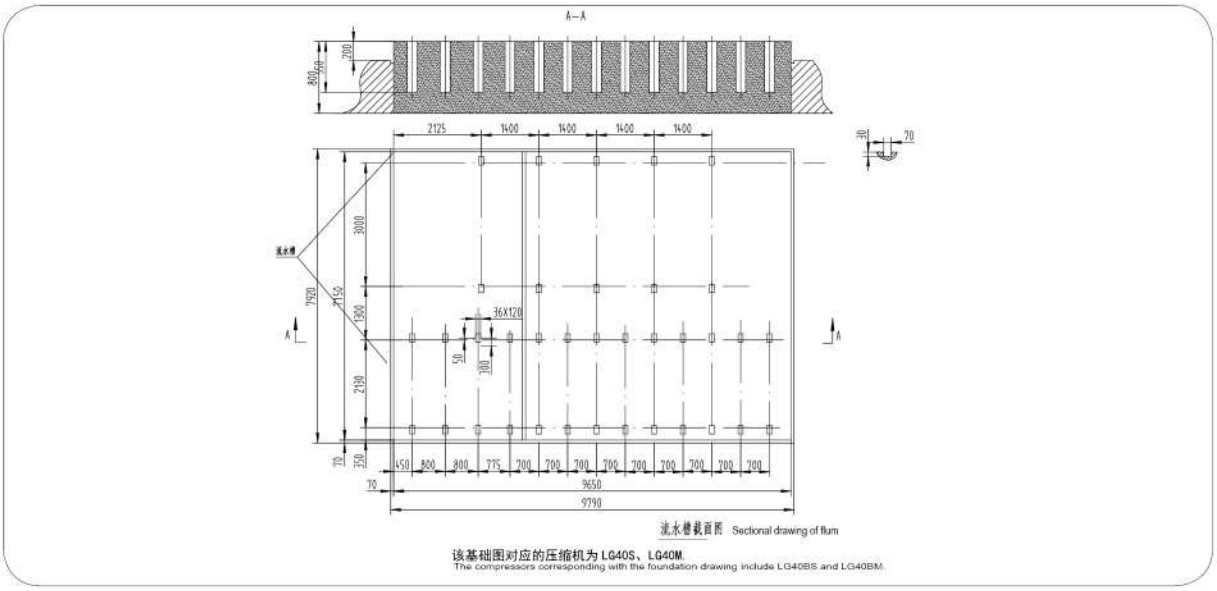
4、图形仅供参考，实际基础以合同签订后提供为准。

Technical Requirements：

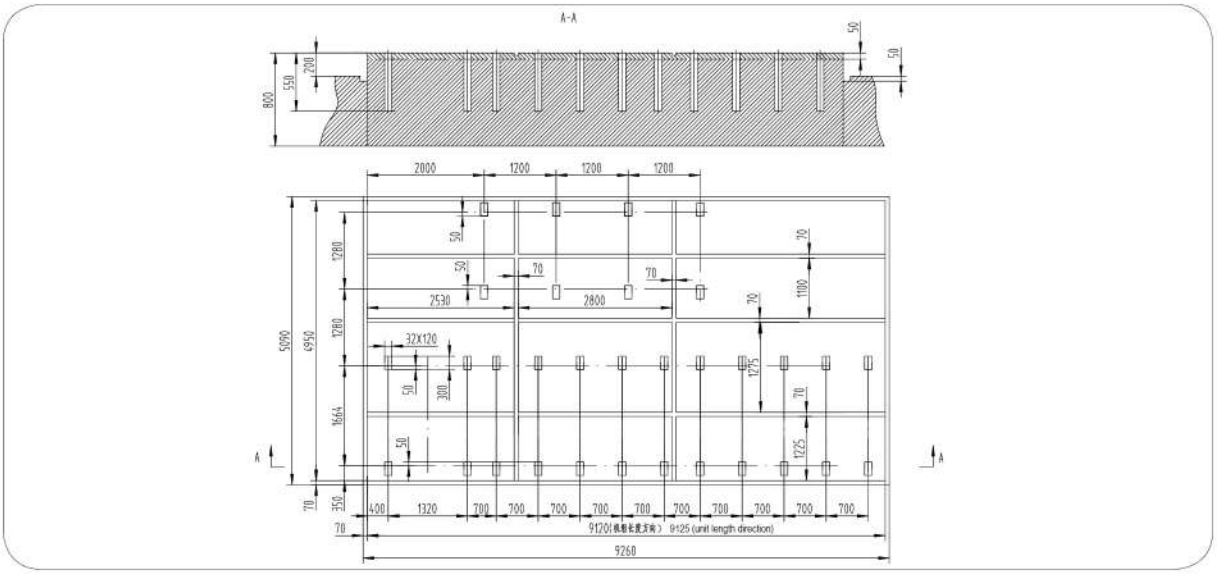
1. The gradient of the flume section shall reach 5/1000.
2. Make the trough connect into the drain.
3. The corresponding compressors of the foundation drawing include LG325、LG32M、LG32L.
4. The drawing is for reference only, and the actual foundation shall be based on the offer after signing the contract.

电机机座号 Motor base No.	L1	L2
450	600	600
500	700	700

YS*H 系列盐水机组基础图（制冷剂 R717/R22）
YS*H seires brine chiller units(R717/R22)



YS*H 系列盐水机组基础图（制冷剂 R717/R22）
YS*H seires brine chiller units(R717/R22)



技术要求：

1、流水槽要给予 5/1000 的坡度。

2、请将流水槽接入地沟。

3、本基础对应的压缩机为 LG3225LS

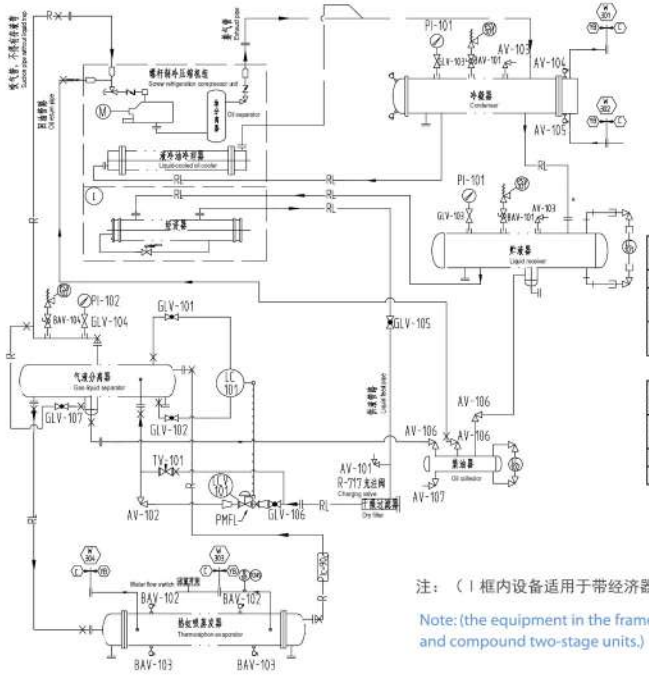
4、图形仅供参考，实际基础以合同签订后提供为准。

Technical Requirements:

1. The gradient of the flume section shall reach 5/1000.
2. Make the trough connect into the drain.
3. The corresponding compressor of the foundation drawing is LG3225LS.
4. The drawing is for reference only, and the actual foundation shall be based on the offer after signing the contract.

R717 低温盐水机组典型流程图（管壳式冷凝器）

Typical flow chart of R717 low temperature brine chiller units (shell-and-tube condensers)



压力表 Pressure gauge	
P1#	规格 Specification
101	-0.1~3.9 MPa 1.5 级 Grade 1.5
102	-0.1~2.4 MPa 1.5 级 Grade 1.5

安全阀 Safety valve	
PSV#	开启压力 Opening pressure
101	1.9 MPa
102	1.3 MPa

注：（ ）框内设备适用于带经济器机组及单机双级机组。）

Note: (the equipment in the frame is applicable to units with economizer and compound two-stage units.)

系统阀件清单 List of system valves	
代号 Code name	用途 Purpose
AV-101	R717 充注口 R717 charging port
AV-102	检修 Repair
AV-103	R717 放空 R717 Emptying
AV-104	水侧放空 Water-side emptying
AV-105	放水口 Water outlet
AV-106	回油管路 Oil return pipe
AV-107	放油 Oil drain
BAV-101	安全阀检修 Safety valve repair
BAV-102	水侧放气 Water-side gas discharge
BAV-103	排污口 Sewage outlet
BAV-104	安全阀检修 Safety valve repair
GLV-101	SV3 检修 SV3 Repair
GLV-102	SV3 检修 SV3 Repair
GLV-103	压力表检修 Pressure gauge repair
GLV-104	压力表检修 Pressure gauge repair
GLV-105	高压供液管路检修 Repair of high pressure liquid feed pipe
GLV-106	高压供液管路检修 Repair of high pressure liquid feed pipe
GLV-107	抽气管路 Extraction pipe
LCV-101	主要供液管路 Main liquid feed pipe
TV-101	辅助供液管路 Auxiliary liquid feed pipe
LC-101	贮液器液位显示 Liquid receiver level display
LC-102	集油器液位显示 Oil collector level display
TE-101	冷媒水出水温度 Chilled water outlet temperature

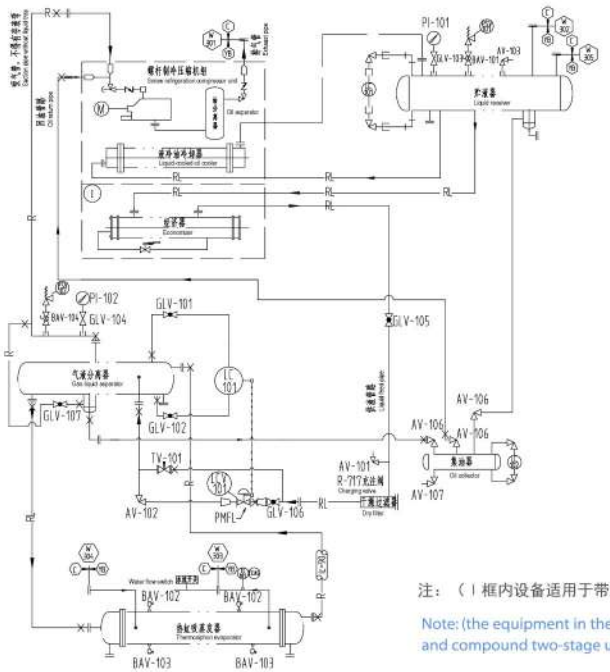
客户接管列表 List of client connecting pipe		
按管 Connecting pipe	用途 Purpose	连接至 Connected to
W-301	冷却水出口 Cooling water outlet	客户端冷却水系统 Client cooling water system
W-302	冷却水进口 Cooling water inlet	客户端冷却水系统 Client cooling water system
W-303	载冷剂出口 Secondary refrigerant outlet	客户端载冷剂系统 Client secondary refrigerant system
W-304	载冷剂 进口 Secondary refrigerant inlet	客户端载冷剂系统 Client secondary refrigerant system

流程图用符号说明
Symbol description of the flow chart

符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description
	吸气管路 Suction pipe		膨胀阀 Expansion valve	T	温度 Temperature		调节阀 Regulating valve	L	低位 Low level	—0—	油管 Oil tube
	排气管路 Exhaust line		电磁阀 Solenoid valve	Pd	压差 Differential pressure		安全阀 Safety valve		开关量控制 On-off control	—R—	制冷剂气体管 Refrigerant gas tube
	截止阀 Stop valve		铜煤气角 Copper coal air corner	A	报警 Alarm		截止止回阀 Stop-check valve		过程量控制 Process control	—RL—	制冷剂液体管 Refrigerant liquid tube
	角阀 Angle valve		视镜 Sight glass	S	停机 Shutdown	P	压力表 Pressure gauge	P	压力 Pressure	YB	烟冰集团 Yantai Moon Group
	节流阀 Throttle valve	I	指示 Indication	C	控制 Control		传感器 Sensor	W	机组对外接管 External connector of unit	C	客户 Client
	止回阀 Check valve	E	电流 Current	—RL—	制冷剂液体进液管 Refrigerant liquid feed tube		液位计 Liquid level meter		法兰 Flange		堵头 End plug
	球阀 Ball valve	H	高位 High level	—R—	制冷剂气体进气管 Refrigerant gas intake tube		三位四通电磁阀 Three-position four-way solenoid valve		过滤器 Filter		异径接头 Reducing joint
X	管道保温起始、终结点 Starting point and ending point of pipe insulation										

R717 低温盐水机组典型流程图（蒸发式冷凝器）

Typical flow chart of R717 low temperature brine chiller units (evaporative condensers)



压力表 Pressure gauge	
P1#	规格 Specification
101	-0.1~3.9 MPa 1.5 级 Grade 1.5
102	-0.1~2.4 MPa 1.5 级 Grade 1.5

安全阀 Safety valve	
PSV#	开启压力 Opening pressure
101	1.9 MPa
102	1.3 MPa

注：（ ）框内设备适用于带经济器机组及单机双级机组。）

Note: (the equipment in the frame is applicable to units with economizer and compound two-stage units.)

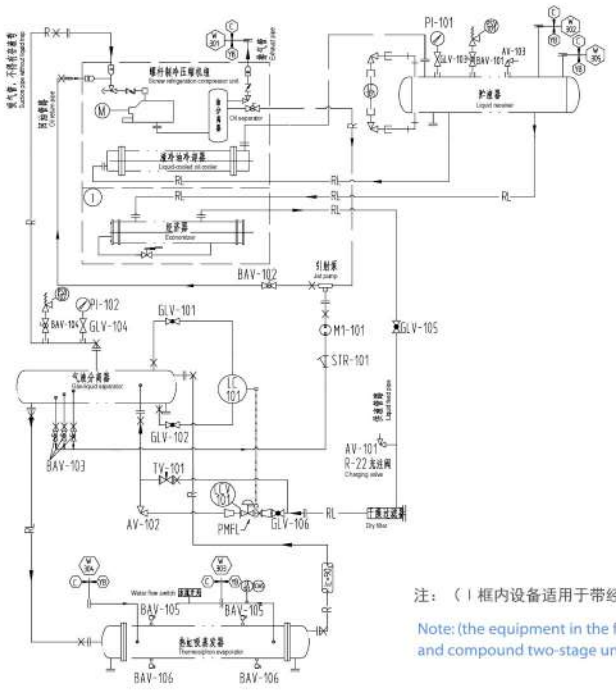
系统阀件清单 List of system valves	
代号 Code name	用途 Purpose
AV-101	R717 充注口 R717 charging port
AV-102	检修 Repair
AV-103	R717 放空 R717 Emptying
AV-104	水侧放空 Water-side emptying
AV-105	放水口 Water outlet
AV-106	回油管路 Oil return pipe
AV-107	放油 Oil drain
BAV-101	安全阀检修 Safety valve repair
BAV-102	水侧放气 Water-side gas discharge
BAV-103	排污口 Sewage outlet
BAV-104	安全阀检修 Safety valve repair
GLV-101	SV3 检修 SV3 Repair
GLV-102	SV3 检修 SV3 Repair
GLV-103	压力表检修 Pressure gauge repair
GLV-104	压力表检修 Pressure gauge repair
GLV-105	高压供液管路检修 Repair of high pressure liquid feed pipe
GLV-106	高压供液管路检修 Repair of high pressure liquid feed pipe
GLV-107	抽气管路 Extraction pipe
LCV-101	主要供液管路 Main liquid feed pipe
TV-101	辅助供液管路 Auxiliary liquid feed pipe
LC-101	贮液器液位显示 Liquid receiver level display
LC-102	集油器液位显示 Oil collector level display
TE-101	冷媒水出水温度 Chilled water outlet temperature

客户接管列表 List of client connecting pipe		
按管 Connecting pipe	用途 Purpose	连接至 Connected to
W-301	压缩机排气 Gas exhaust of compressor	客户端蒸发冷 Client evaporative condenser system
W-302	贮液器进液口 Liquid inlet of liquid receiver	客户端蒸发冷 Client evaporative condenser system
W-303	载冷剂出口 Secondary refrigerant outlet	客户端载冷剂系统 Client secondary refrigerant system
W-304	载冷剂进口 Secondary refrigerant inlet	客户端载冷剂系统 Client secondary refrigerant system
W-305	贮液器出气口 Liquid receiver gas outlet	客户端蒸发冷 Client evaporative cooling system

流程图用符号说明 Symbol description of the flow chart											
符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description
	吸气管路 Suction pipe		膨胀阀 Expansion valve	T	温度 Temperature		调节阀 Regulating valve	L	低位 Low level	—0—	油管 Oil tube
	排气管路 Exhaust line		电磁阀 Solenoid valve	Pd	压差 Differential pressure		安全阀 Safety valve		开关量控制 On-off control	—R—	制冷剂气体管 Refrigerant gas tube
	截止阀 Stop valve		铜煤气角 Copper coal air corner	A	报警 Alarm		截止止回阀 Stop-check valve		过程量控制 Process control	—RL—	制冷剂液体管 Refrigerant liquid tube
	角阀 Angle valve		视镜 Sight glass	S	停机 Shutdown		压力表 Pressure gauge	P	压力 Pressure	YB	烟冰集团 Yantai Moon Group
	节流阀 Throttle valve	I	指示 Indication	C	控制 Control		传感器 Sensor	W	机组对外接管 External connector of unit	C	客户 Client
	止回阀 Check valve	E	电流 Current	—RL—	制冷剂液体进液管 Refrigerant liquid feed tube		液位计 Liquid level meter		法兰 Flange		堵头 End plug
	球阀 Ball valve	H	高位 High level	—R—	制冷剂气体进气管 Refrigerant gas intake tube		三位四通电磁阀 Three-position four-way solenoid valve		过滤器 Filter		异径接头 Reducing joint
X	管道保温起始、终结点 Starting point and ending point of pipe insulation										

R22 低温盐水机组典型流程图（蒸发式冷凝器）

Typical flow chart of R22 low temperature brine chiller units (evaporative condensers)



压力表 Pressure gauge	
P1#	规格 Specification
101	-0.1~3.9 MPa 1.5 级 Grade 1.5
102	-0.1~2.4 MPa 1.5 级 Grade 1.5

安全阀 Safety valve	
PSV#	开启压力 Opening pressure
101	1.9 MPa
102	1.3 MPa

注：（ ｜ 框内设备适用于带经济器机组及单机双级机组。）

Note: (the equipment in the frame is applicable to units with economizer and compound two-stage units.)

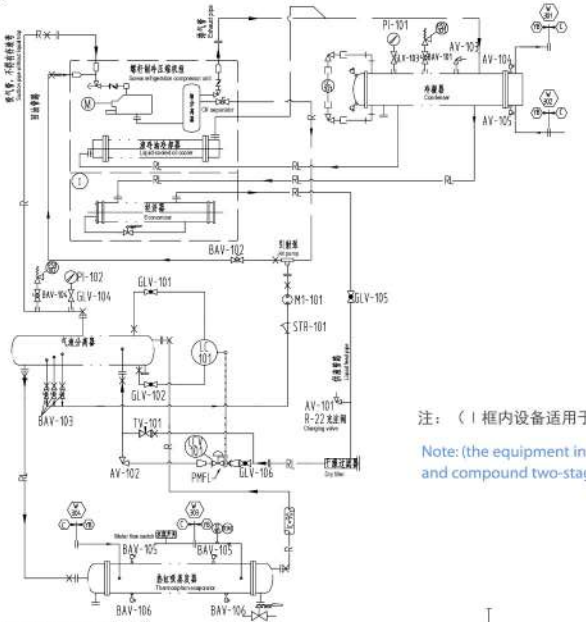
系统阀件清单 List of system valves	
代号 Code name	用途 Purpose
AV-101	R22 充注口 R22 charging port
AV-102	检修 Repair
AV-103	R22 放空 R22 Emptying
BAV-101	安全阀检修 Safety valve repair
BAV-102	引射泵回油出口 Oil return outlet of jet pump
BAV-103	回油管路 Oil return pipe
BAV-104	安全阀检修 Safety valve repair
BAV-105	水侧放气 Water-side air discharge
BAV-106	排污口 Sewage outlet
GLV-101	SV3 检修 SV3 Repair
GLV-102	SV3 检修 SV3 Repair
GLV-103	压力表检修 Pressure gauge repair
GLV-104	压力表检修 Pressure gauge repair
GLV-105	高压供液管路检修 Repair of high pressure liquid feed pipe
GLV-106	高压供液管路检修 Repair of high pressure liquid feed pipe
LCV-101	主要供液管路 Main liquid feed pipe
TV-101	辅助供液管路 Auxiliary liquid feed pipe
LC-101	贮液器液位显示 Liquid receiver level display
TE-101	冷媒水出水温度 Chilled water outlet temperature
MI-101	汽液分离器回油管路 Oil return pipe of gas liquid separator
STR-101	汽液分离器回油管路 Oil return pipe of gas liquid separator

客户接管列表 List of client connecting pipe		
按管 Connecting pipe	用途 Purpose	连接至 Connected to
W-301	压缩机排气 Gas exhaust of compressor	客户端蒸发冷 Client evaporative condenser system
W-302	贮液器进液口 Liquid inlet of liquid receiver	客户端蒸发冷 Client evaporative condenser system
W-303	载冷剂出口 Secondary refrigerant outlet	客户端载冷剂系统 Client secondary refrigerant system
W-304	载冷剂进口 Secondary refrigerant inlet	客户端载冷剂系统 Client secondary refrigerant system
W-305	贮液器出气口 Liquid receiver gas outlet	客户端蒸发冷 Client evaporative cooling system

流程图用符号说明 Symbol description of the flow chart											
符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description
——	吸气管路 Suction pipe		膨胀阀 Expansion valve	T	温度 Temperature		调节阀 Regulating valve	L	低位 Low level	—0—	油管 Oil tube
——	排气管路 Exhaust line		电磁阀 Solenoid valve	Pd	压差 Differential pressure		安全阀 Safety valve		开关量控制 On-off control	—R—	制冷剂气体管 Refrigerant gas tube
	截止阀 Stop valve		铜煤气角 Copper coal air corner	A	报警 Alarm		截止止回阀 Stop-check valve		过程量控制 Process control	—RL—	制冷剂液体管 Refrigerant liquid tube
	角阀 Angle valve		视镜 Sight glass	S	停机 Shutdown		压力表 Pressure gauge	P	压力 Pressure		烟冰集团 Yantai Moon Group
	节流阀 Throttle valve	I	指示 Indication	C	控制 Control		传感器 Sensor		机组对外接管 External connector of unit		客户 Client
	止回阀 Check valve	E	电流 Current	—RL—	制冷剂液体进液管 Refrigerant liquid feed tube		液位计 Liquid level meter		法兰 Flange		堵头 End plug
	球阀 Ball valve	H	高位 High level	—R—	制冷剂气体进气管 Refrigerant gas intake tube		三位四通电磁阀 Three-position four-way solenoid valve		过滤器 Filter		异径接头 Reducing joint
X	管道保温起始、终结点 Starting point and ending point of pipe insulation										

R22 低温盐水机组典型流程图（管壳式冷凝器）

Typical flow chart of R22 low temperature brine chiller units (



压力表 Pressure gauge	
P1#	规格 Specification
101	-0.1~3.9 MPa 1.5 级 Grade 1.5
102	-0.1~2.4 MPa 1.5 级 Grade 1.5

安全阀 Safety valve	
PSV#	开启压力 Opening pressure
101	1.9 MPa
102	1.3 MPa

注：（ ）框内设备适用于带经济器机组及单机双级机组。）

Note: (the equipment in the frame is applicable to units with economizer and compound two-stage units.)

系统阀件清单 List of system valves	
代号 Code name	用途 Purpose
AV-101	R22 充注口 R22 charging port
AV-102	检修 Repair
AV-103	R22 放空 R22 Emptying
AV-104	水侧放空 Water-side emptying
AV-105	放水口 Water outlet
BAV-101	安全阀检修 Safety valve repair
BAV-102	引射泵回油出口 Oil return outlet of jet pump
BAV-103	回油管路 Oil return pipe
BAV-104	安全阀检修 Safety valve repair
BAV-105	水侧放气 Water-side air discharge
BAV-106	排污口 Sewage outlet
GLV-101	SV3 检修 SV3 Repair
GLV-102	SV3 检修 SV3 Repair
GLV-103	压力表检修 Pressure gauge repair
GLV-104	压力表检修 Pressure gauge repair
GLV-105	高压供液管路检修 Repair of high pressure liquid feed pipe
GLV-106	高压供液管路检修 Repair of high pressure liquid feed pipe
LCV-101	主要供液管路 Main liquid feed pipe
TV-101	辅助供液管路 Auxiliary liquid feed pipe
LC-101	冷凝器液位显示 Condenser level display
TE-101	冷媒水出水温度 Chilled water outlet temperature
MI-101	汽液分离器回油管路 Oil return pipe of gas liquid separator
STR-101	汽液分离器回油管路 Oil return pipe of gas liquid separator

客户接管列表 List of client connecting pipe		
按管 Connecting pipe	用途 Purpose	连接至 Connected to
W-301	冷却水出口 Cooling water outlet	客户端冷却水系统 Client cooling water system
W-302	冷却水进口 Cooling water inlet	客户端冷却水系统 Client cooling water system
W-303	载冷剂出口 Secondary refrigerant outlet	客户端载冷剂系统 Client secondary refrigerant system
W-304	载冷剂进口 Secondary refrigerant inlet	客户端载冷剂系统 Client secondary refrigerant system

流程图用符号说明 Symbol description of the flow chart

符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description	符号 Symbol	说明 Description
——	吸气管路 Suction pipe		膨胀阀 Expansion valve	S	温度 Temperature		调节阀 Regulating valve	L	低位 Low level	—O—	油管 Oil tube
——	排气管路 Exhaust line		电磁阀 Solenoid valve	Δ	压差 Differential pressure		安全阀 Safety valve		开关量控制 On-off control	—R—	制冷剂气体管 Refrigerant gas tube
	截止阀 Stop valve	E	铜煤气角 Copper coal air corner	—RL—	报警 Alarm		截止止回阀 Stop-check valve		过程量控制 Process control	—RL—	制冷剂液体管 Refrigerant liquid tube
	角阀 Angle valve	H	视镜 Sight glass	—R—	停机 Shutdown	P	压力表 Pressure gauge	P	压力 Pressure	YB	烟冰集团 Yantai Moon Group
	节流阀 Throttle valve		指示 Indication		控制 Control		传感器 Sensor	M	机组对外接管 External connector of unit	C	客户 Client
	止回阀 Check valve		电流 Current		制冷剂液体进液管 Refrigerant liquid feed tube		液位计 Liquid level meter		法兰 Flange		堵头 End plug
	球阀 Ball valve		高位 High level		制冷剂气体进气管 Refrigerant gas intake tube		三位四通电磁阀 Three-position four-way solenoid valve		过滤器 Filter		异径接头 Reducing joint
X	管道保温起始、终结点 Starting point and ending point of pipe insulation										

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