



冷凝机组 CONDENSING UNIT

冷凝机组 产品手册

CONDENSING UNIT
PRODUCT MANUAL



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冷链一体化解决方案服务商、集成商、供应商

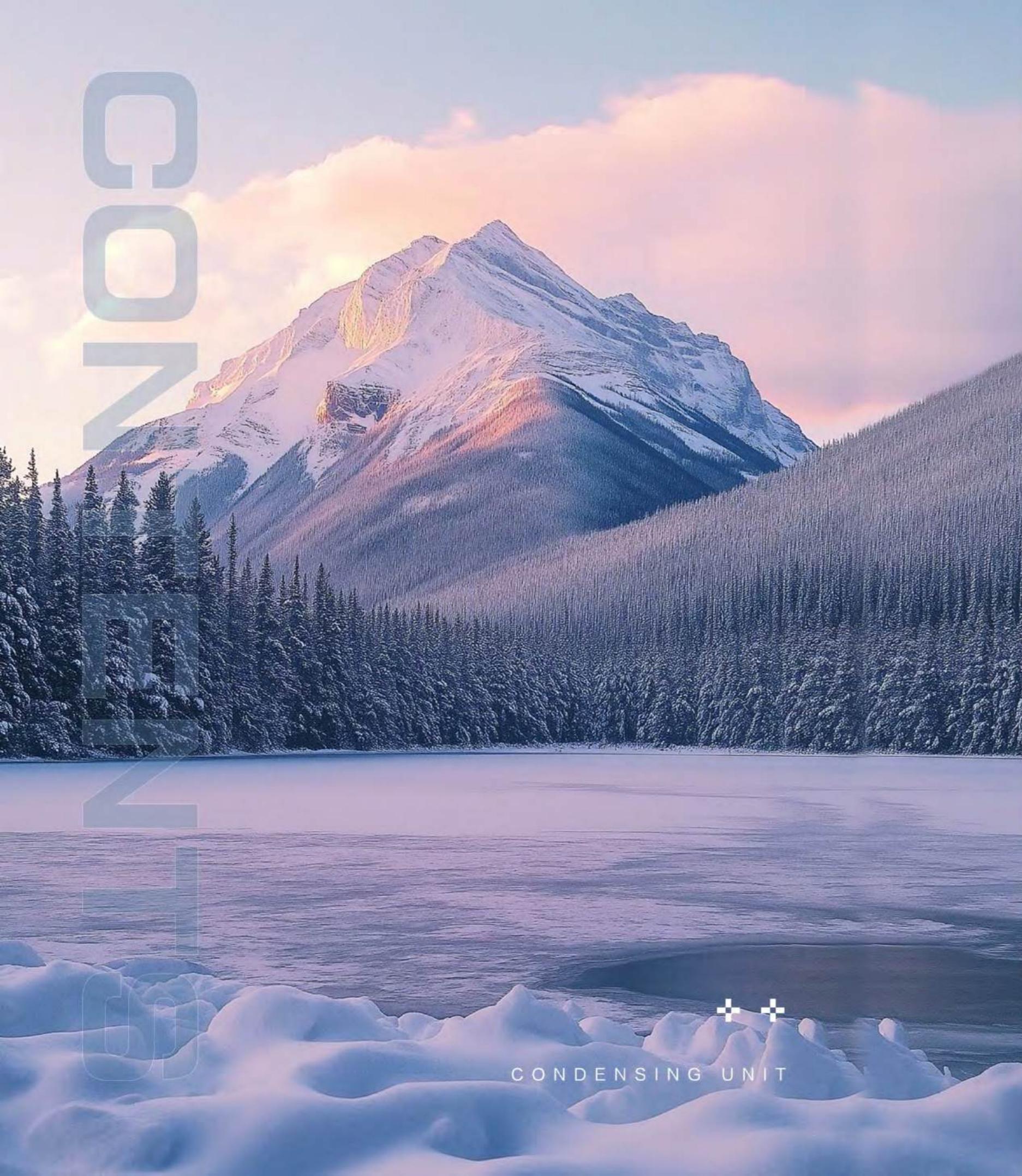
COLD CHAIN INTEGRATED SOLUTION SERVICE PROVIDERS, INTEGRATORS, AND SUPPLIERS



精工品质主流配置

箱式冷凝机组 敞开式冷凝机组 并联冷凝机组





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COMPANY PROFILE

公司简介

实力雄厚 放眼全球

广东先进制冷设备有限公司是一家智能化创新型制冷设备制造企业，集全球领先冷链一体化解决方案服务商、集成商、供应商，业务涵盖设备研发、生产制造、系统集成及技术服务。公司总部位于中国粤港澳大湾区制造业创新核心区——广东佛山，园区占地面积近15万平方米，配备国际先进水平的智能化生产线及行业顶尖技术研发团队，拥有数控加工、精密模具、膨胀阀制造、金属压板、环保喷涂、智能测试等全流程制造体系。

公司主营：压缩冷凝机组、蒸发器、风冷冷凝器、水冷冷凝器、空冷器、储液器、压缩机、液压机、环境试验箱、商超冷柜、食物冰冻冷库、步入式冷库以及制冷相关的各类保温复合板、冷库铝板、聚氨酯板等业务；设备广泛应用于冷库、冷柜、陈列柜、空调、冰浴、食品、医疗等领域；

Guangdong ARTECO Refrigeration Equipment Co., Ltd. is an intelligent and innovative refrigeration equipment manufacturing enterprise, integrating global leading cold chain integrated solution service providers, integrators, and suppliers. Its business covers equipment research and development, production and manufacturing, system integration, and technical services. The company's headquarters is located in Foshan, Guangdong, the manufacturing innovation core area of the Guangdong Hong Kong Macao Greater Bay Area in China. The park covers an area of nearly 150000 square meters and is equipped with internationally advanced intelligent production lines and industry-leading technology research and development teams. It has a full process manufacturing system including CNC machining, precision molds, expansion valve manufacturing, metal pressure plates, environmentally friendly spraying, and intelligent testing.

The company's main business includes compression condensing units, evaporators, air-cooled condensers, water-cooled condensers, air coolers, liquid reservoirs, compressors, hydraulic presses, environmental testing chambers, supermarket refrigerators, food freezing cold storage, walk-in cold storage, as well as various insulation composite panels, cold storage aluminum panels, polyurethane panels and other businesses related to refrigeration; The equipment is widely used in cold storage, freezers, display cabinets, air conditioning, ice baths, food, medical and other fields;



拥有厂房面积
Factory Area

15万m²

成功案例
Success Cases

3500 +

产品覆盖城市
Product Coverage Cities

70 +

制造经验
Years Of Manufacturing Experience

15 +

广东先进制冷设备有限公司立足于佛山市，辐射全国，在中国主要城市（广州、深圳、上海、西安、郑州、南京）拥有服务点以及在国际城市（东京、吉隆坡、利雅得）设有区域服务中心，能够与当地客户紧密联系；及时为客户提供方案的设计到专业定制的售后服务和支持。

企业先进的制冷技术、智能化制冷设备、专业化定制的客户服务；满足用户食品加工、冷藏、物流、零售、乳制品、海鲜出口、仓储、酒店、制药、工业冷却和冷链运营等行业多样化需求。

Guangdong ARTECO Refrigeration Equipment Co., Ltd. strategically positions itself in Foshan City, achieving nationwide coverage through key service points in major Chinese cities like Guangzhou, Shenzhen, Shanghai, Xi'an, and Zhengzhou. Furthermore, its international reach extends to Tokyo, Kuala Lumpur, and Riyadh, ensuring close customer communication and delivering timely solution design, customized after-sales service, and comprehensive support.

ARTECO specializes in advanced and intelligent refrigeration solutions tailored to diverse industries, including food processing, logistics, retail, pharmaceuticals, and cold chain operations.

ENTERPRISE HONOR

企业荣誉

严苛认证 值得信赖

STRIVE FOR LEADERSHIP AND PROFESSIONALISM
INTEGRITY MANAGEMENT, STEADY DEVELOPMENT



知名品牌 专业品质

FAMOUS BRAND PROFESSIONAL QUALITY

创建“先进”品牌，凭着诚信进取的文化精神和优质周到的服务，赢得客户和社会的一致认可。公司资质实力不断增强，综合实力持续提升，永远追求技术领先、质量领先、服务领先。“先进制冷”是年轻的，是充满生机和无限希望的，面对激烈的市场竞争，我们将以更优质的产品服务于社会。

Creating an "ARTECO" brand, relying on the cultural spirit of integrity and enterprising spirit, and providing high-quality and thoughtful services, has won unanimous recognition from customers and society. The company's qualifications and strength continue to enhance, and its comprehensive strength continues to improve, always pursuing technological leadership, quality leadership, and service leadership. "ARTECO" refrigeration is young, full of vitality and infinite hope. Faced with fierce market competition, we will serve society with higher quality products.





FACILITIES EQUIPMENT 生产设备

先进制冷拥有现代化的加工车间，其中引进了各类激光切割机、数控转塔冲床、数控板料折弯机、闭式高速冲床、全自动长U弯管机、组合胀管机、立式胀管机等高精设备，具有完善的加工、生产和检测能力，确保每一件产品的卓越性能。

ARTECO has a modern processing workshop, which has introduced various high-precision equipment such as laser cutting machines, CNC turret punching machines, CNC sheet metal bending machines, closed high-speed punching machines, fully automatic long U-tube bending machines, combined tube expansion machines, and vertical tube expansion machines. It has complete processing, production, and testing capabilities to ensure the excellent performance of each product.

STRATEGIC PARTNERS

战略合作伙伴

携手
奋进



DKUNION STEEL
联合铁钢(中国)有限公司



行稳
致远



GUANZHOU
冠洲



合作伙伴

COOPERATIVE PARTNER



六和



聚势
合力



萌山钢构
MENGSHAN STEEL STRUCTURE

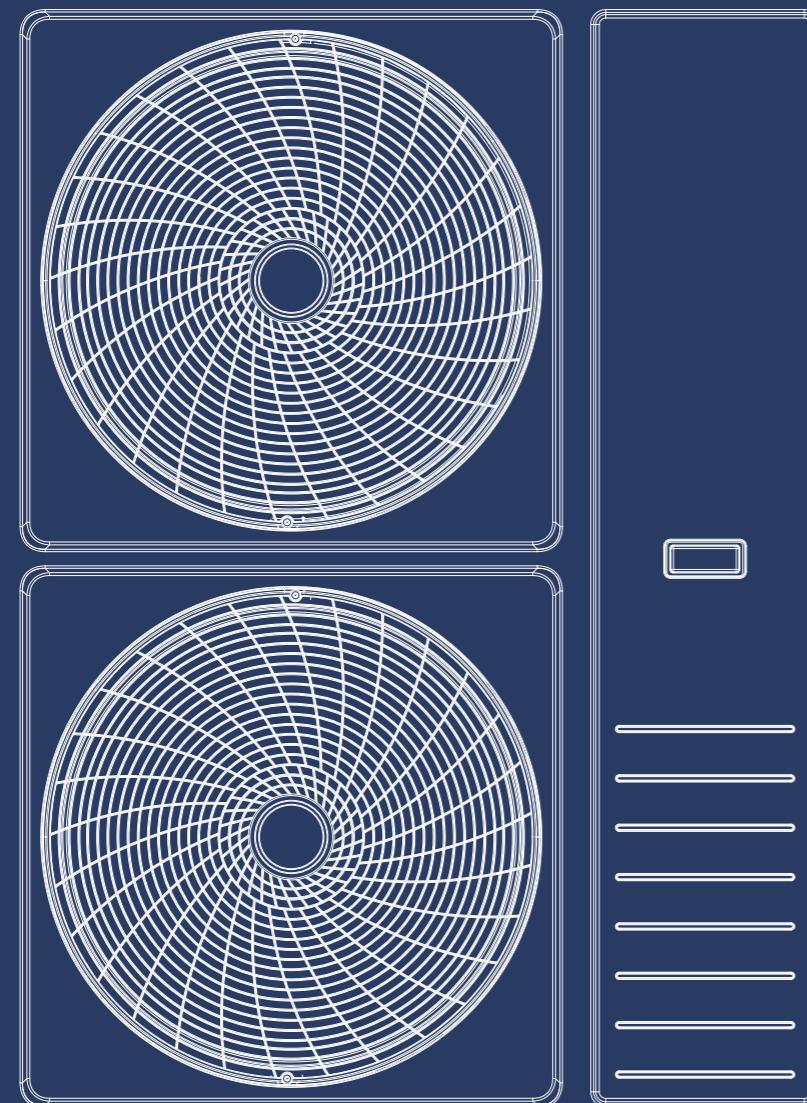


共赢
未来



冷链一体化解决方案服务商、集成商、供应商

COLD CHAIN INTEGRATED SOLUTION SERVICE PROVIDERS, INTEGRATORS, AND SUPPLIERS



BOX TYPE CONDENSING UNIT 箱式冷凝机组

BS箱式冷凝机组

BX箱式冷凝机组

BT箱式冷凝机组

....

01

BS 箱式冷凝机组

BS Box Type Condensing Unit



快速制冷
Fast Refrigeration



环保材质
Environment Protection



吸音降噪
Low Vibration



外形美观
Beautiful Appearance

产品概述 PRODUCT OVERVIEW

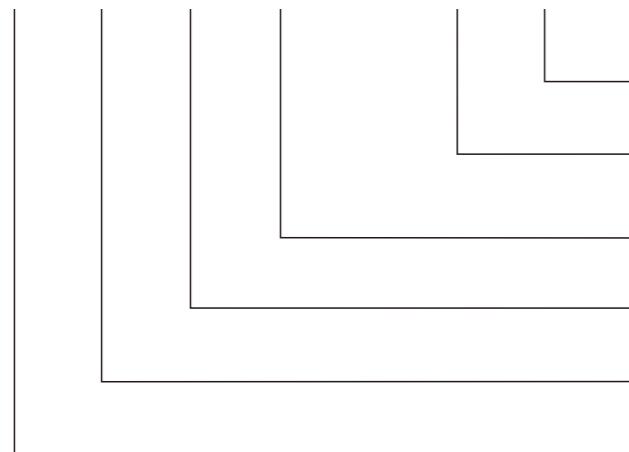
- ◆ BS系列箱式冷凝机组产品主要针对冷库应用而开发的；
- ◆ 主机采用艾默生ZB或ZSI/ZF系列全封闭涡旋压缩机，质量好、可靠性高；
- ◆ 机组设计分高温、中温及低温应用；
 - 高温机组主要满足8~15℃的冷库使用；
 - 中温机组主要满足-5~5℃的冷库使用；
 - 低温机组主要满足-15~-25℃的冷库使用；
- ◆ 采用空调型式的机箱，配备6极低转速风机，具有漂亮的外观及较低的噪音，适合居民区安装使用；
- ◆ 采用L型冷凝器，具有迎风面积大，风阻小，换热效果好；
- ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。

- ◆ The BS series box type condensing unit products are mainly developed for cold storage applications;
- ◆ The host adopts Emerson ZB or ZSI/ZF series fully enclosed scroll compressors with good quality and high reliability;
- ◆ The unit design is divided into high temperature, medium temperature, and low temperature applications.

- High temperature units are mainly used for cold storage at 8~15 °C;
- The medium temperature unit is mainly used for cold storage at -5~5 °C;
- Low temperature units are mainly used for cold storage at -15~-25 °C;
- ◆ The chassis adopts air conditioning type and is equipped with 6 extremely low-speed fans, which have a beautiful appearance and low noise, suitable for installation and use in residential areas;
- ◆ Adopting an L-shaped condenser, it has a large windward area, low wind resistance, and good heat transfer effect;
- ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc.

型号说明 MODEL DESCRIPTION

BS E B F - 05 M



适用温度代码: H: 高温, M: 中温, L: 低温
Applicable temperature code: H: High temperature,
M: Medium temperature, L: low temperature

压缩机额定功率 (HP)
Rated power of compressor (HP)

冷却形式: F: 风冷式, S: 水冷式
Cooling form: F: Air-cooled type, S: Water cooled type

制冷剂代码: A: R22, B: R404A/R507A
Refrigerant code: A: R22, B: R404A/R507A

压缩机品牌代码: E: 艾默生, Y: 英华特
Compressor brand code: E: Emerson, Y: Invotech

产品系列
Product series



MAIN TECHNICAL PARAMETERS 主要技术参数

→ 高温型机组 HIGH TEMPERATURE UNIT

机组型号 Model		BSEBF02H	BSEBF03H	BSEBF04H	BSEBF05H	BSEBF06H	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		5°C~15°C					
压缩机 Comp.	型 号 Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	
	最大电流 Max.I(A)	6.0	8.0	11.0	13.5	16.1	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R22	10°C	6.7/1.6	9.8/2.4	13.1/3.1	16.3/3.9	19.6/4.5
		5°C	5.8/1.6	8.4/2.3	11.2/3.0	14.0/3.8	16.9/4.3
		0°C	4.9/1.5	7.1/2.3	9.6/2.9	11.9/3.7	14.4/4.2
		10°C	6.5/1.8	9.7/2.6	13.2/3.4	16.7/4.3	19.6/4.8
	R404A R507A	5°C	5.6/1.7	8.4/2.5	11.4/3.3	14.4/4.2	16.9/4.8
		0°C	4.8/1.7	7.2/2.5	9.8/3.3	12.4/4.1	14.5/4.7
		电压Voltage(V)					
		1P/220V/50Hz					
风机 Fan	电 流 Current (A)	0.6	0.6	1.2	1.2	1.2	
	功 率 Power(W)	135	135	135×2	135×2	135×2	
	转速Rev.(r/min)	760	760	760	760	760	
	吸气接口Suction Line(mm)	φ 16	φ 16	φ 19	φ 19	φ 19	
供液接口Liquid Line(mm)		φ 9.52	φ 9.52	φ 12.7	φ 12.7	φ 12.7	
重 量 Weight kg		68	72	94	102	106	
尺寸 Size	长Length(mm)	960	960	960	960	960	
	宽Width(mm)	450	450	450	450	450	
	高Height(mm)	810	810	1260	1260	1260	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.							

→ 中温型机组 MEDIUM TEMPERATURE UNIT

机组型号 Model		BSEBF02M	BSEBF03M	BSEBF04M	BSEBF05M	BSEBF06M	BSEBF07M	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-5°C~5°C						
压缩机 Comp.	型 号 Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	
	最大电流 Max.I(A)	6.0	8.0	11.0	13.5	16.1	17.0	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R22	-5°C	4.1/1.5	5.9/2.2	8.0/2.9	9.9/3.6	12.0/4.2	13.2/4.6
		-8°C	3.6/1.5	5.3/2.2	7.1/2.8	8.8/3.6	10.7/4.2	11.7/4.6
		-10°C	3.4/1.5	4.9/2.2	6.6/2.8	8.2/3.5	9.9/4.1	11.0/4.5
		-5°C	3.9/1.8	5.9/2.5	8.1/3.3	10.2/4.2	11.9/4.7	13.1/5.2
	R404A R507A	-8°C	3.5/1.8	5.3/2.5	7.1/3.3	9.0/4.2	10.6/4.7	11.6/5.2
		-10°C	3.3/1.8	4.9/2.5	6.7/3.3	8.5/4.1	9.9/4.6	10.9/5.1
		电压Voltage(V)					1P/220V/50Hz	
风机 Fan	电 流 Current (A)	0.6	0.6	1.2	1.2	1.2	1.2	
	功 率 Power(W)	135	135	135×2	135×2	135×2	135×2	
	转速Rev.(r/min)	760	760	760	760	760	760	
	吸气接口Suction Line(mm)	φ 16	φ 16	φ 19	φ 19	φ 19	φ 19	
供液接口Liquid Line(mm)		φ 9.52	φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重 量 Weight kg		66	70	90	98	105	106	
尺寸 Size	长Length(mm)	960	960	960	960	960	960	
	宽Width(mm)	450	450	450	450	450	450	
	高Height(mm)	810	810	1260	1260	1260	1260	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.								

→ 低温机组(带喷液) LOW TEMPERATURE UNIT (WITH SPRAY)

机组型号 Model		BSEBF02L	BSEBF03L	BSEBF04L	BSEBF05L	BSEBF06L	BSEBF07L	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15°C~25°C						
压缩机 Comp.	型 号 Model	ZSI06KQE	ZSI09KQE	ZSI14KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE	
	最大电流 Max.I(A)	5.7	6.7	9.2	11.9	13.7	14.6	
制冷量/功率(KW) Capacity/Power(KW)	R22	-20°C	2.3/1.6	3.1/2.0	5.1/3.0	5.7/3.3	7.0/4.2	7.8/4.6
		-25°C	1.9/1.5	2.5/1.9	4.1/2.8	4.8/3.2	5.8/4.0	6.5/4.4
		-30°C	1.6/1.4	1.9/1.9	3.2/2.7	3.9/3.0	4.8/3.8	5.4/4.2
		Evap. Temp.	R404A R507A	-20°C	2.2/1.8	3.1/2.3	5.0/3.2	6.9/4.4
	R404A R507A	-25°C	1.8/1.7	2.6/2.2	4.1/3.1	4.7/3.4	5.8/4.2	6.4/4.7
		-30°C	1.5/1.6	2.1/2.0	3.3/2.9	3.6/3.2	4.7/4.0	5.2/4.4
电 壓 Voltage(V)		1P/220V/50Hz						
风 机 Fan		0.6	0.6	1.2	1.2	1.2	1.2	
功 率 Power(W)		135	135	135×2	135×2	135×2	135×2	
转 速 Rev.(r/min)		760	760	760	760	760	760	
吸 气 接 口 Suction Line(mm)		φ 16	φ 16	φ 19	φ 19	φ 19	φ 19	
供 液 接 口 Liquid Line(mm)		φ 9.52	φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重 量 Weight kg		63	67	83	92	105	106	
尺寸 Size	长Length(mm)	960	960	960	960	960	960	
	宽Width(mm)	450	450	450	450	450	450	
	高Height(mm)	810	810	1260	1260	1260	1260	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.								

→ 高温型及中温型机组 HIGH TEMPERATURE AND MEDIUM TEMPERATURE UNITS

机组配件 Unit Accessories	BSEBF					
02H 02M	03H 03M	04H 04M	05H 05			

UNIT CONFIGURATION

机组配置

→ 低温型机组 LOW TEMPERATURE UNIT

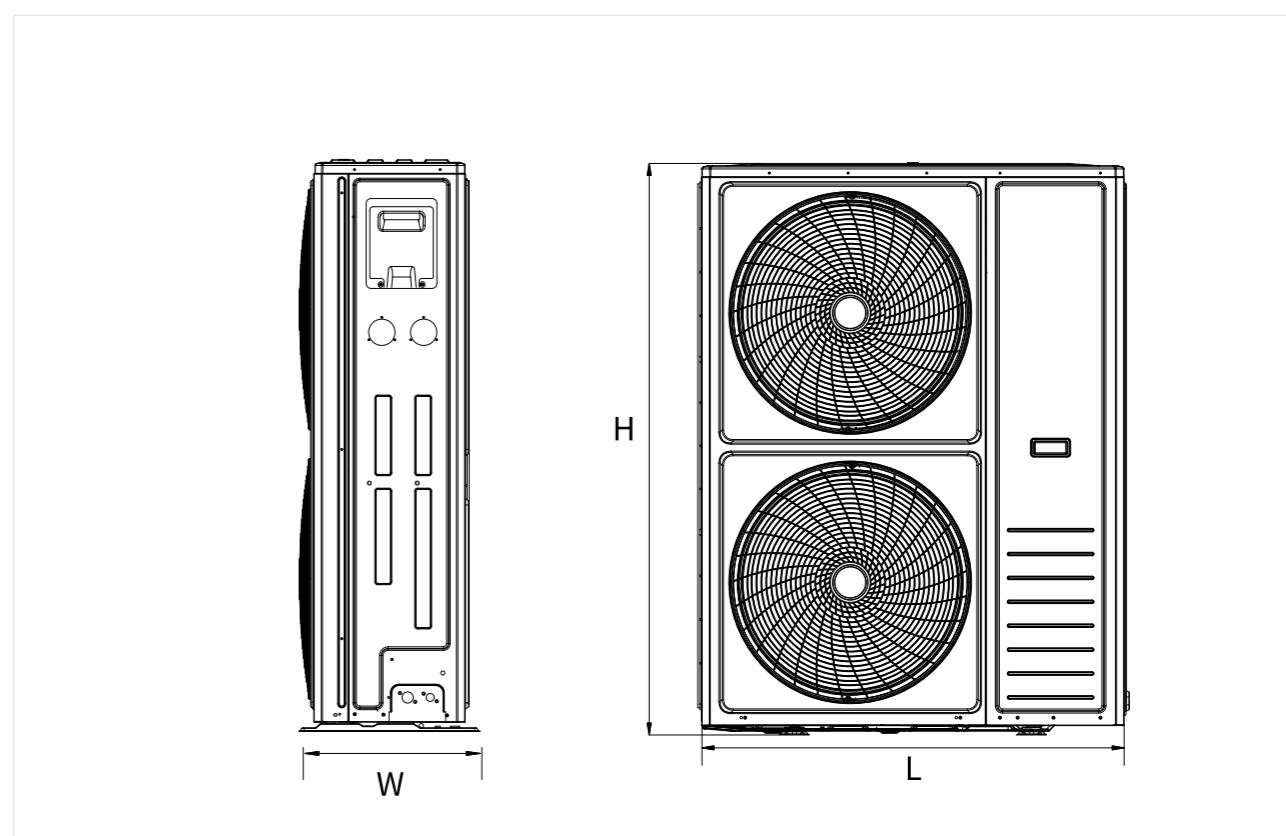
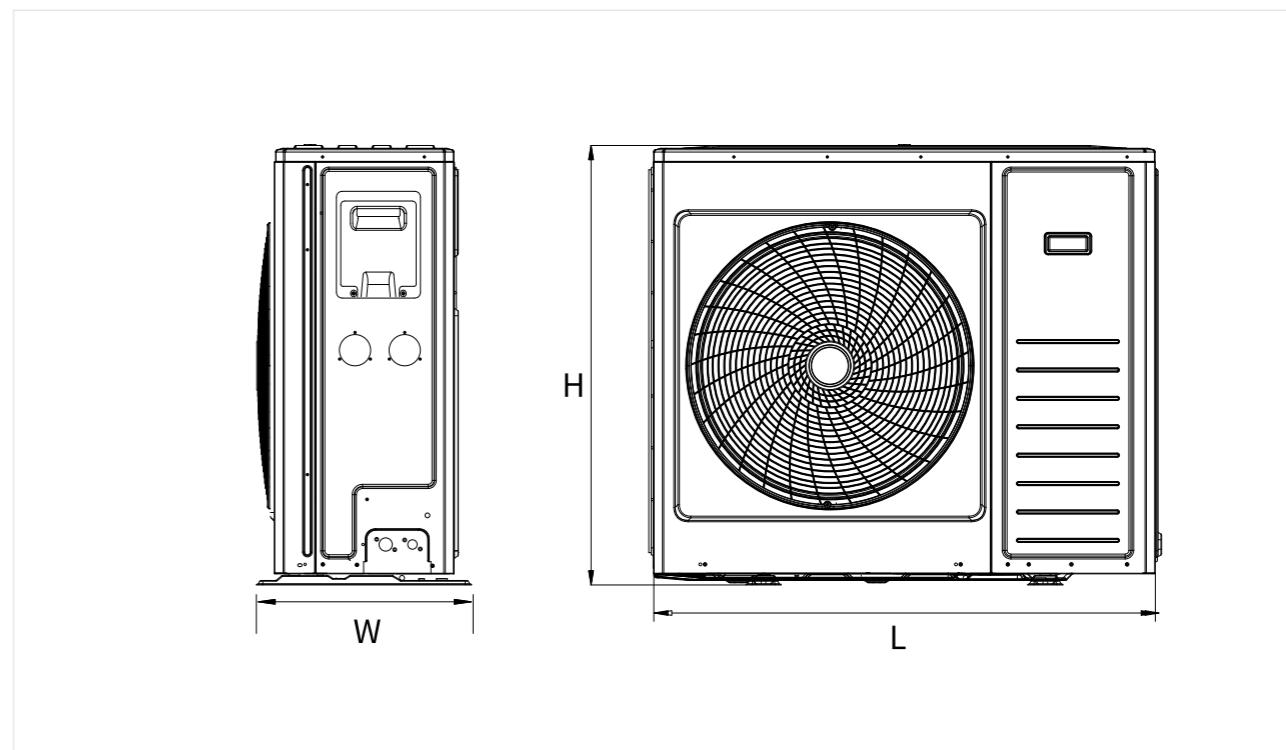
机组配件 Unit Accessories	BSEBF					
	02L	03L	04L	05L	06L	07L
压缩机 Compressor	●	●	●	●	●	●
油加热带 Oil Heater	▲	▲	▲	▲	▲	▲
冷凝器 Condenser	●	●	●	●	●	●
6极AC电机 6-Pole AC Motor	●	●	●	●	●	●
储液器 Liquid Reservoir	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲
高压保护 HP Switch	●	●	●	●	●	●
低压保护 LP Switch	●	●	●	●	●	●
高 / 低压表 HP/LP Gauge	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	●	●	●	●	●	●
吸气管接口阀 Suction Line Valve	●	●	●	●	●	●
机组电控 Electric Control For Unit	▲	▲	▲	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。Description: ● Factory standard configuration; ▲ Select accessories.



OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT

机组外形及安装尺寸图



BX 箱式冷凝机组

BX Box Type Condensing Unit



快速制冷
Fast Refrigeration



智能除霜
Intelligent Defrosting



低噪音
Low Noise



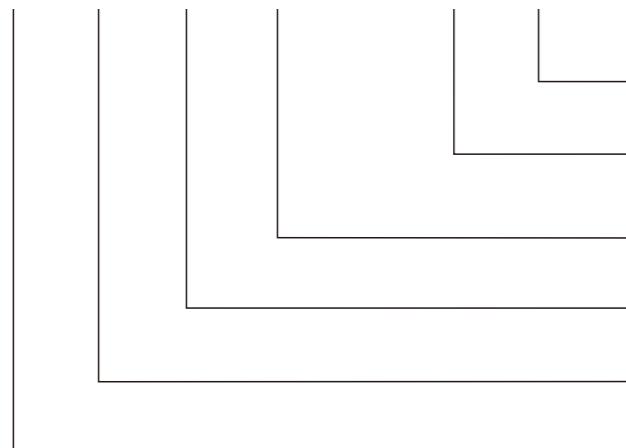
外形美观
Beautiful Appearance

产品概述 PRODUCT OVERVIEW

- ◆ BX系列箱式冷凝机组产品主要针对冷库应用而开发的；
 - ◆ 主机采用艾默生ZB或ZSI/ZF系列全封闭涡旋压缩机，质量好、可靠性高；
 - ◆ 机组设计分中温及低温应用：
 - 中温机组可满足-5~5℃的冷库使用；
 - 低温机组可满足-15~-25℃的冷库使用；
 - ◆ 采用高效内螺纹铜管，配备6极低转速风机，具有漂亮的外观及较低的噪音，适合居民区安装使用；
 - ◆ 采用L型冷凝器，具有迎风面积大，风阻小，换热效果好；
 - ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。
-
- ◆ The BX series box type condensing unit products are mainly developed for cold storage applications;
 - ◆ The host adopts Emerson ZB or ZSI/ZF series fully enclosed scroll compressors with good quality and high reliability;
 - ◆ Unit design is divided into medium temperature and low temperature applications:
 - The medium temperature unit can meet the cold storage needs of -5~5 °C;
 - The low-temperature unit can meet the cold storage needs of -15~-25 °C;
 - ◆ Using efficient internally threaded copper pipes and equipped with 6 extremely low-speed fans, it has a beautiful appearance and low noise, suitable for installation and use in residential areas;
 - ◆ Adopting an L-shaped condenser, it has a large windward area, low wind resistance, and good heat transfer effect;
 - ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc.

型号说明 MODEL DESCRIPTION

BX E B F - 05 M



适用温度代码: H: 高温, M: 中温, L: 低温
Applicable temperature code: H: High temperature,
M: Medium temperature, L: low temperature

压缩机额定功率 (HP)
Rated power of compressor (HP)

冷却形式: F: 风冷式, S: 水冷式
Cooling form: F: Air-cooled type, S: Water cooled type

制冷剂代码: A: R22, B: R404A/R507A
Refrigerant code: A: R22, B: R404A/R507A

压缩机品牌代码: E: 艾默生, S: 赛科为
Compressor brand code: E: Emerson, S: Xecom

产品系列
Product series



MAIN TECHNICAL PARAMETERS 主要技术参数

→ 中温型机组 MEDIUM TEMPERATURE UNIT

机组型号 Model		BXEBCF02M	BXEBCF03M	BXEBCF04M	BXEBCF05M	BXEBCF06M	BXEBCF07M	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-5°C ~ 5°C						
压缩机 Comp.	型 号 Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	
	最大电流 Max.I(A)	6.0	8.0	11.0	13.5	16.1	17.0	
制冷量/功率(KW) Capacity/Power(KW)	R22 蒸发温度 Evap. Temp.	-5°C	4.1/1.5	5.9/2.2	8.0/2.9	9.9/3.6	12.0/4.2	13.2/4.6
		-8°C	3.6/1.5	5.3/2.2	7.1/2.8	8.8/3.6	10.7/4.2	11.7/4.6
		-10°C	3.4/1.5	4.9/2.2	6.6/2.8	8.2/3.5	9.9/4.1	11.0/4.5
	R404A R507A	-5°C	3.9/1.8	5.9/2.5	8.1/3.3	10.2/4.2	11.9/4.7	13.1/5.2
		-8°C	3.5/1.8	5.3/2.5	7.1/3.3	9.0/4.2	10.6/4.7	11.6/5.2
		-10°C	3.3/1.8	4.9/2.5	6.7/3.3	8.5/4.1	9.9/4.6	10.9/5.1
		电压Voltage(V)	3P/380V/50Hz					
风机 Fan	电流Current (A)	0.4	0.9	1.5	1.5	1.8	1.8	
	功率Power(W)	150	330	550	550	660	660	
	转速Rev.(r/min)	900	900	900	900	900	900	
	吸气接口Suction Line(mm)	φ 19	φ 22	φ 22	φ 22	φ 22	φ 22	
供液接口Liquid Line(mm)		φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight kg		83	100	129	133	160	162	
尺寸 Size	长Length(mm)	1033	1253	1383	1383	1253	1253	
	宽Width(mm)	480	520	610	610	580	580	
	高Height(mm)	724	724	848	848	1436	1436	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.								

→ 低温机组 LOW TEMPERATURE UNIT

机组型号 Model		BXEBCF02L	BXEBCF03L	BXEBCF04L	BXEBCF05L	BXEBCF06L	BXEBCF07L	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15°C ~ -25°C						
压缩机 Comp.	型 号 Model	ZSI06KQE	ZSI09KQE	ZSI14KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE	
	最大电流 Max.I(A)	5.7	6.7	9.2	11.9	13.7	14.6	
制冷量/功率(KW) Capacity/Power(KW)	R22 蒸发温度 Evap. Temp.	-20°C	2.3/1.6	3.1/2.0	5.1/3.0	5.7/3.3	7.0/4.2	7.8/4.6
		-25°C	1.9/1.5	2.5/1.9	4.1/2.8	4.8/3.2	5.8/4.0	6.5/4.4
		-30°C	1.6/1.4	1.9/1.9	3.2/2.7	3.9/3.0	4.8/3.8	5.4/4.2
	R404A R507A	-20°C	2.2/1.8	3.1/2.3	5.0/3.2	5.7/3.6	6.9/4.4	7.7/4.9
		-25°C	1.8/1.7	2.6/2.2	4.1/3.1	4.7/3.4	5.8/4.2	6.4/4.7
		-30°C	1.5/1.6	2.1/2.0	3.3/2.9	3.6/3.2	4.7/4.0	5.2/4.4
		电压Voltage(V)	3P/380V/50Hz					
风机 Fan	电流Current (A)	0.4	0.4	0.9	0.9	1.5	1.5	
	功率Power(W)	150	150	330	330	550	550	
	转速Rev.(r/min)	900	900	900	900	900	900	
	吸气接口Suction Line(mm)	φ 19	φ 19	φ 22	φ 22	φ 22	φ 22	
供液接口Liquid Line(mm)		φ 9.52	φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight kg		83	85	110	110	135	135	
尺寸 Size	长Length(mm)	1033	1033	1253	1253	1383	1383	
	宽Width(mm)	480	480	520	520	610	610	
	高Height(mm)	724	724	724	724	848	848	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.								



机组型号 Model		BXEBCF08M	BXEBCF09M	BXEBCF10M	BXEBCF12M	BXEBCF13M	BXEBCF15M	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-5°C~5°C						
压缩机 Comp.	型 号 Model	ZB58KQE	ZB66KQE	ZB76KQE	ZB88KQE	ZB95KQE	ZB114KQE	
	最大电流 Max.I(A)	23.0	24.2	26.9	31.0	31.0	38.0	
制冷量/功率(KW) Capacity/Power(KW)	R22 蒸发温度 Evap. Temp.	-5°C	15.4/4.5	17.8/6.1	21.0/7.1	23.9/8.1	25.1/9.1	30.0/10.8
		-8°C	13.5/5.5	15.8/6.0	18.6/7.0	21.2/8.1	21.9/9.0	26.2/10.7
		-10°C	12.5/5.3	14.7/6.0	17.4/6.9	19.6/8.0	20.3/8.8	24.2/10.5
	R404A R507A	-5°C	15.8/6.4	17.7/7.1	21.1/8.3		25.8/10.7	30.7/12.7
		-8°C	14.0/6.3	15.7/7.1	18.7/8.2		22.9/10.6	27.1/12.5
		-10°C	13.1/6.2	14.7/7.1	17.5/8.2		21.5/10.4	25.3/12.3
		电压Voltage(V)	3P/380V/50Hz					
风机 Fan	电流Current (A)	2.9	2.9	2.9	2.9	2.9	3.2	
	功率Power(W)	1100	1100	1100	1100	1100	1600	
	转速Rev.(r/min)	900	900	900	900	900	1320	
	吸气接口Suction Line(mm)	φ 35	φ 35	φ 35	φ 35	φ 35	φ 35	
供液接口Liquid Line(mm)		φ 16	φ 16	φ 16	φ 16	φ 16	φ 16	
重量 Weight kg		205	223	228	415	415	418	
尺寸 Size	长Length(mm)	1382	1382	1382	1809	1809	1809	
	宽Width(mm)	640	640	640	991	991	991	
	高Height(mm)	1646	1646	1646	1954	1954	1954	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.								

机组型号 Model		BXEBCF08L	BXEBCF09L	BXEBCF10L	BXEBCF13L	BXEBCF15L	BXEBCF17L
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.							

UNIT CONFIGURATION

机组配置

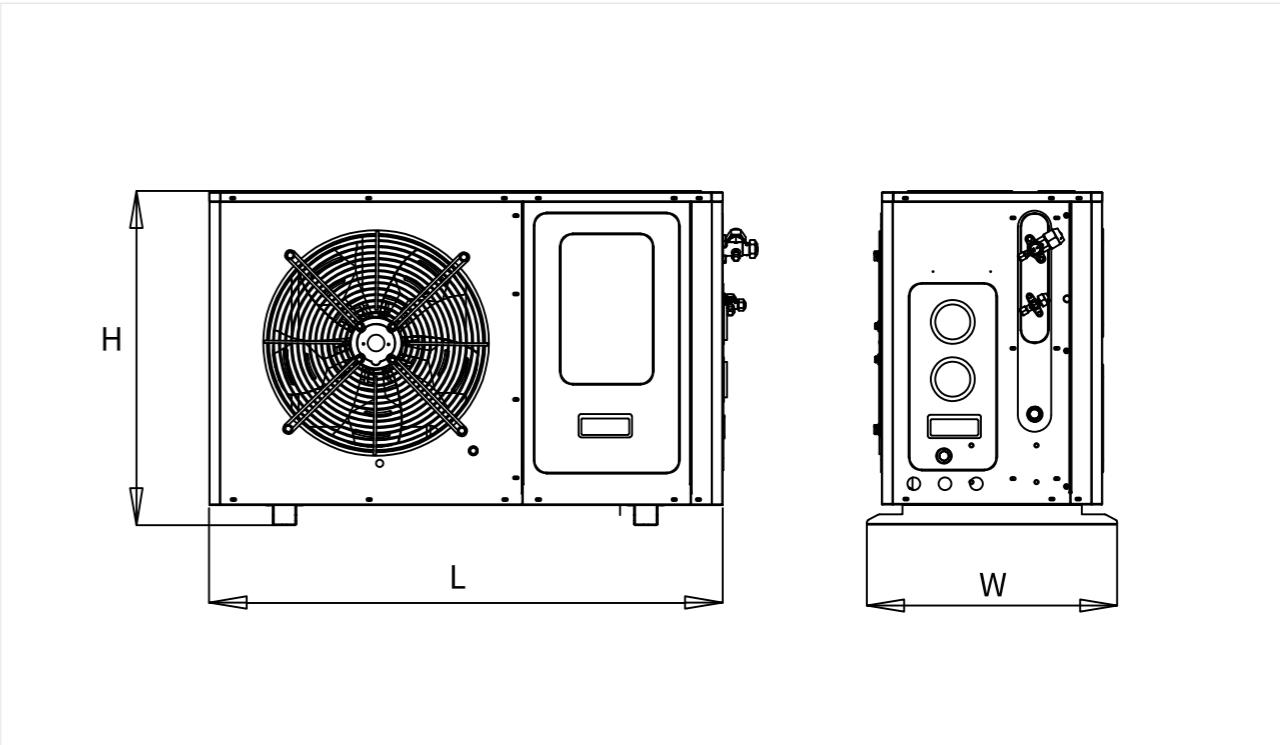
→ 中温型机组 MEDIUM TEMPERATURE UNITS

机组配件 Unit Accessories	BXEBF											
	02M	03M	04M	05M	06M	07M	08M	09M	10M	12M	13M	15M
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
冷 凝 器 Condenser	●	●	●	●	●	●	●	●	●	●	●	●
6极 AC 电机 6-Pole AC Motor	●	●	●	●	●	●	●	●	●	●	●	●
储 液 器 Liquid Reservoir	●	●	●	●	●	●	●	●	●	●	●	●
干 燥 过 滤 器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●
视 液 镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●
电 磁 阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高 压 保 护 HP Switch	●	●	●	●	●	●	●	●	●	●	●	●
低 压 保 护 LP Switch	●	●	●	●	●	●	●	●	●	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	●	●	●	●	●	●	●	●	●	●	●	●
吸气管接口阀 Suction Line Valve	●	●	●	●	●	●	●	●	●	●	●	●
机 组 电 控 Electric Control For Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.

OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT

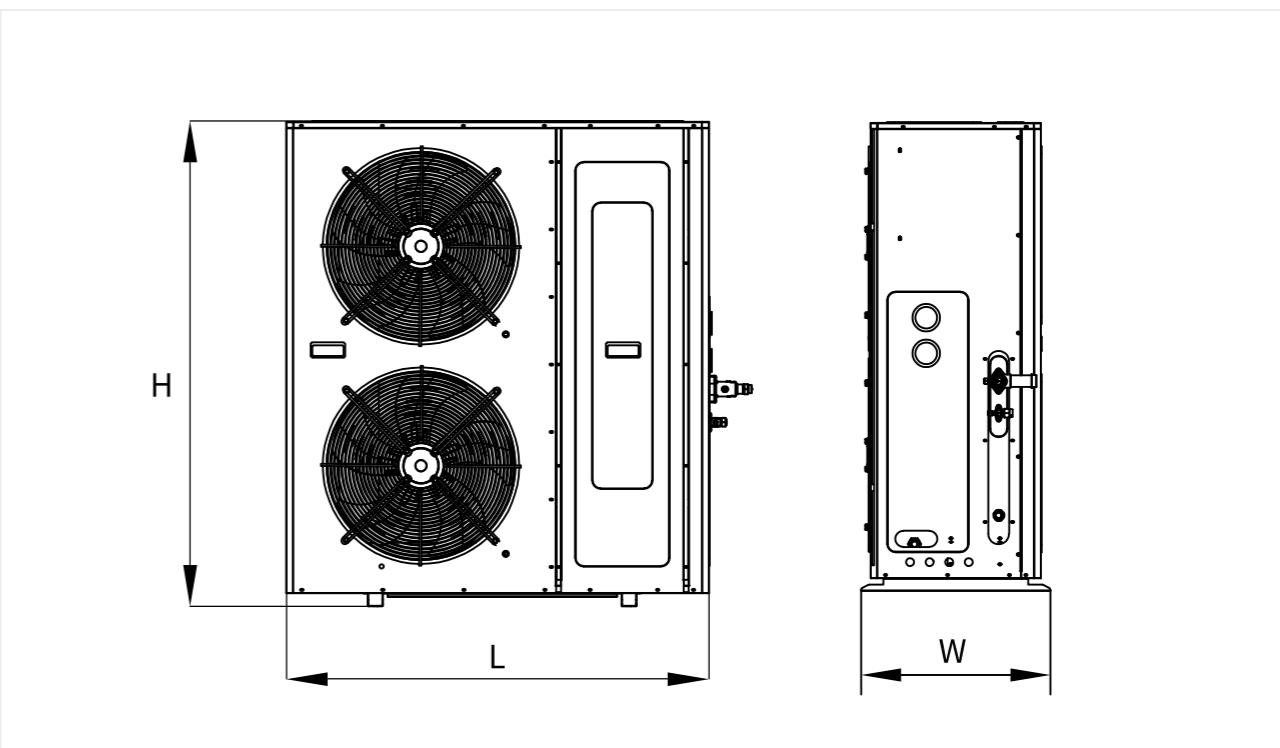
机组外形及安装尺寸图



→ 低温型机组 LOW TEMPERATURE UNIT

机组配件 Unit Accessories	BXEBF											
	02L	03L	04L	05L	06L	07L	08L	09L	10L	12L	13L	15L
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
冷 凝 器 Condenser	●	●	●	●	●	●	●	●	●	●	●	●
6极 AC 电机 6-Pole AC Motor	●	●	●	●	●	●	●	●	●	●	●	●
储 液 器 Liquid Reservoir	●	●	●	●	●	●	●	●	●	●	●	●
干 燥 过 滤 器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●
视 液 镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●
电 磁 阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高 压 保 护 HP Switch	●	●	●	●	●	●	●	●	●	●	●	●
低 压 保 护 LP Switch	●	●	●	●	●	●	●	●	●	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	●	●	●	●	●	●	●	●	●	●	●	●
吸气管接口阀 Suction Line Valve	●	●	●	●	●	●	●	●	●	●	●	●
机 组 电 控 Electric Control For Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.



BT 箱式冷凝机组(艾默生)

BT Box Type Condensing Unit (Emerson)



快速制冷
Fast Refrigeration



保温隔热
Thermal Insulation



吸音降噪
Low Vibration



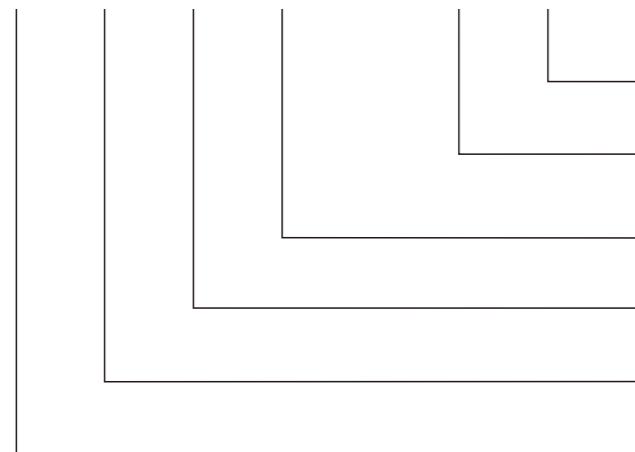
节能省电
Energy-Saving

产品概述 PRODUCT OVERVIEW

- ◆ BT系列箱式冷凝机组产品主要针对冷库应用而开发的;
- ◆ 主机采用艾默生ZB或ZFI系列全封闭涡旋压缩机，质量好、可靠性高;
- ◆ 机组设计分高温、中温及低温应用;
 - 高温机组可满足8~15℃的冷库使用;
 - 中温机组可满足-5~5℃的冷库使用;
 - 低温机组可满足-15~-35℃的冷库使用;
- ◆ 采用整体拉伸的大圆角高风圈设计，具有导风效果好、噪音小、外形美观等特点;
- ◆ 机箱面板贴蜂窝吸音棉设计，有效降低机组运行噪音和钣金共振;
- ◆ 采用U型冷凝器，具有迎风面积大，风阻小，换热效果好;
- ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。
- ◆ The BT series box type condensing unit products are mainly developed for cold storage applications:
- ◆ The host adopts Emerson ZB or ZFI series fully enclosed scroll compressors with good quality and high reliability;
- ◆ The unit design is divided into high temperature, medium temperature, and low temperature applications:
 - High temperature units can meet the needs of cold storage at 8~15 °C;
 - The medium temperature unit can meet the cold storage needs of -5~5 °C;
 - The low-temperature unit can meet the cold storage needs of -15 ~-35 °C;
- ◆ Adopting a large rounded high wind ring design with overall stretching, it has the characteristics of good air guiding effect, low noise, and beautiful appearance;
- ◆ The chassis panel is designed with honeycomb sound-absorbing cotton, effectively reducing the operating noise and sheet metal resonance of the unit;
- ◆ Adopting a U-shaped condenser, it has a large windward area, low wind resistance, and good heat transfer effect;
- ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc

型号说明 MODEL DESCRIPTION

BT E B F - 10 M



适用温度代码: H: 高温, M: 中温, L: 低温
Applicable temperature code: H: High temperature, M: Medium temperature, L: low temperature

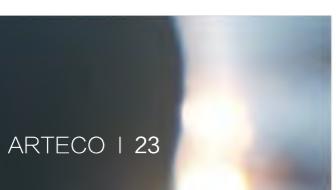
压缩机额定功率 (HP)
Rated power of compressor (HP)

冷却形式: F: 风冷式, S: 水冷式
Cooling form: F: Air-cooled type, S: Water cooled type

制冷剂代码: A: R22, B: R404A/R507A
Refrigerant code: A: R22, B: R404A/R507A

压缩机品牌代码: E: 艾默生, B: 比泽尔
Compressor brand code: E: Emerson, B: Bitzer

产品系列
Product series



MAIN TECHNICAL PARAMETERS 主要技术参数



→ 高温型机组 HIGH TEMPERATURE UNIT

机组型号 Model		BTEBF03H	BTEBF04H	BTEBF05H	BTEBF06H	BTEBF07H	BTEBF08H	BTEBF10H	
电 源 Power Supply		3P/380V/50Hz							
适用温度 Apply Temp.		5°C ~ 15°C							
压缩机 Comp.	型 号 Model	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB76KQE	
	最大电流 Max.I(A)	8.0	11.0	13.5	16.1	17.0	23.0	26.9	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	10°C	9.8/2.4	13.1/3.1	16.3/3.9	19.6/4.5	21.6/4.9	26.1/5.8	34.4/7.7
		5°C	8.4/2.3	11.2/3.0	14.0/3.8	16.9/4.3	18.6/4.8	22.3/5.6	29.7/7.4
		0°C	7.1/2.3	9.6/2.9	11.9/3.7	14.4/4.2	15.9/4.7	18.9/5.5	25.3/7.2
	R404A R507A	10°C	9.7/2.6	13.2/3.4	16.7/4.3	19.6/4.8	21.5/5.3	25.9/6.6	34.2/8.8
		5°C	8.4/2.5	11.4/3.3	14.4/4.2	16.9/4.8	18.6/5.3	22.4/6.5	29.7/8.6
		0°C	7.2/2.5	9.8/3.3	12.4/4.1	14.5/4.7	15.9/5.2	19.2/6.4	25.5/8.4
风机 Fan	电压 Voltage(V)	3P/380V/50Hz							
	电流 Current (A)	0.6	0.6	1.1	1.1	1.1	1.2	1.2	
	功率 Power(W)	290×1	290×1	548×1	548×1	548×1	290×2	548×2	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	1380	1380	
吸气接口 Suction Line(mm)		φ 19	φ 22	φ 22	φ 22	φ 28	φ 35		
供液接口 Liquid Line(mm)		φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16		
重量 Weight kg		121	129	169	171	179	210	255	
尺寸 Size	长 Length(mm)	880	880	1050	1050	1050	1420	1650	
	宽 Width(mm)	715	715	815	815	815	715	815	
	高 Height(mm)	870	870	1102	1102	1102	1070	1202	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.									

→ 中温型机组 MEDIUM TEMPERATURE UNIT

机组型号 Model		BTEBF03M	BTEBF04M	BTEBF05M	BTEBF06M	BTEBF07M	BTEBF08M	BTEBF10M	
电 源 Power Supply		3P/380V/50Hz							
适用温度 Apply Temp.		-5°C ~ 5°C							
压缩机 Comp.	型 号 Model	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB76KQE	
	最大电流 Max.I(A)	8.0	11.0	13.5	16.1	17.0	23.0	26.9	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	10°C	5.9/2.2	8.0/2.9	9.9/3.6	12.0/4.2	13.2/4.6	15.4/4.5	21.0/7.1
		5°C	5.3/2.2	7.1/2.8	8.8/3.6	10.7/4.2	11.7/4.6	13.5/5.5	18.6/7.0
		0°C	4.9/2.2	6.6/2.8	8.2/3.5	9.9/4.1	11.0/4.5	12.5/5.3	17.4/6.9
	R404A R507A	10°C	5.9/2.5	8.1/3.3	10.2/4.2	11.9/4.7	13.1/5.2	15.8/6.4	21.1/8.3
		5°C	5.3/2.5	7.1/3.3	9.0/4.2	10.6/4.7	11.6/5.2	14.0/6.3	18.7/8.2
		0°C	4.9/2.5	6.7/3.3	8.5/4.1	9.9/4.6	10.9/5.1	13.1/6.2	17.5/8.2
风机 Fan	电压 Voltage(V)	3P/380V/50Hz							
	电流 Current (A)	0.6	0.6	0.6	1.1	1.1	1.1	2.2	
	功率 Power(W)	290×1	290×1	290×1	290×1	548×1	548×1	548×2	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	1380	1380	
吸气接口 Suction Line(mm)		φ 19	φ 22	φ 22	φ 22	φ 28	φ 35		
供液接口 Liquid Line(mm)		φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16		
重量 Weight kg		115	117	130	163	163	190	242	
尺寸 Size	长 Length(mm)	880	880	880	1050	1050	1050	1650	
	宽 Width(mm)	715	715	715	815	815	815	815	
	高 Height(mm)	870	870	870	1102	1102	1102	1202	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.									

机组型号 Model		BTEAF12H	BTEBF13H	BTEBF15H	BTEBF20H	BTEBF22H	BTEBF25H	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		5°C ~ 15°C						
压缩机 Comp.	型 号 Model	ZB88KQE	ZB95KQE	ZB114KQE	ZB130KQE	ZB150KQE	ZB190KQE	
	最大电流 Max.I(A)	31.0	31.0	38.0	33.1	38.3	49.1	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	10°C	39.2/8.7	42.1/9.8	50.7/11.7	56.2/12.4	66.1/15.4	82.9/19.3
		5°C	34.0/8.2	36.2/9.5	43.5/11.2	48.4/12.0	56.8/14.6	70.9/18.1
		0°C	29.0/8.1	30.7/9.2	36.8/10.9	41.2/11.6	48.4/14.4	59.8/17.8
	R404A R507A	10°C		42.0/11.3	50.8/13.3	54.6/13.9	66.2/17.9	82.9/22.5
		5°C		36.3/11.1	43.8/13.0	47.3/13.6	57.2/16.8	71.6/21.2
		0°C		31.3/10.8	37.5/12.7	40.6/13.2	49.0/16.6	61.3/20.8
风机 Fan	电压 Voltage(V)	3P/380V/50Hz						
	电流 Current (A)	2.2	2.2	3.5	3.5	3.5	5.2	
	功率 Power(W)	548×2	548×2	937×2	937×2	937×2	937×3	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	1380	
吸气接口 Suction Line(mm)		φ 35	φ 35	φ 35	φ 42	φ 42	φ 42	
供液接口 Liquid Line(mm)								

MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温型机组 (带EVI喷气增焓) LOW TEMPERATURE UNIT WITH EVI (ENHANCED VAPOR INJECTION)

机组型号 Model		BTEBF04L	BTEBF05L	BTEBF06L	BTEBF08L	BTEBF10L	BTEBF13L	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15°C ~ -35°C						
压缩机 Comp.	型 号 Model	ZFI20KQE	ZFI23KQE	ZFI26KQE	ZFI36KQE	ZFI39KQE	ZFI50KQE	
	最大电流 Max.I(A)	12.0	13.6	13.0	16.6	20.3	25.0	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	-15°C	8.2/3.5	9.8/4.5	11.7/5.4	14.5/6.6	16.6/8.0	19.8/8.8
		-20°C	6.9/3.4	8.3/4.3	9.9/5.2	12.4/6.3	14.2/7.6	16.9/8.3
		-25°C	5.8/3.2	7.1/4.0	8.4/4.8	10.6/5.8	12.2/7.0	14.3/7.7
		-30°C	4.8/3.0	6.0/3.7	7.1/4.5	9.0/5.4	10.3/6.5	11.9/7.2
		-35°C	3.9/2.9	5.3/3.5	6.0/4.2	7.5/4.9	8.6/6.0	10.6/6.7
		-40°C	3.2/2.8	4.8/3.3	5.0/4.0	6.2/4.5	7.1/5.4	8.5/6.2
风机 Fan	电压Voltage(V)	3P/380V/50Hz						
	电流Current (A)	0.6	1.1	1.1	1.2	1.2	2.2	
	功率Power(W)	290×1	548×1	548×1	290×2	290×2	548×2	
	转速Rev.(r/min)	1380	1380	1380	1380	1380	1380	
吸气接口Suction Line(mm)		φ 22	φ 22	φ 22	φ 22	φ 22	φ 35	
供液接口Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16	φ 16	
重量 Weight kg		139	170	170	188	189	254	
尺寸 Size	长Length(mm)	880	1050	1050	1420	1420	1650	
	宽Width(mm)	715	815	815	715	715	815	
	高Height(mm)	870	1102	1102	1070	1070	1202	

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

机组型号 Model		BTEBF15L	BTEBF18L	BTEBF20L	BTEBF25L	BTEBF30L	BTEBF40L	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15°C ~ -35°C						
压缩机 Comp.	型 号 Model	ZFI59KQE	ZFI68KQE	ZFI81KQE	ZFI96KQE	ZFI122KQE	ZFI140KQE	
	最大电流 Max.I(A)	27.0	28.3	40.0	52.0	65.4	67.8	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	-15°C	24.1/10.7	27.3/12.6	32.1/15.3	41.5/18.4	52.3/22.4	57.6/24.4
		-20°C	20.5/10.2	23.2/11.8	27.3/14.4	35.0/17.6	44.0/21.4	48.3/23.3
		-25°C	17.4/9.4	19.6/10.8	23.1/13.3	29.5/16.3	37.2/19.8	40.7/21.6
		-30°C	14.5/8.8	16.3/10.2	19.2/12.4	24.6/15.3	31.0/18.6	33.9/20.4
		-35°C	12.1/8.2	13.6/9.5	16.1/11.6	20.4/14.4	25.7/17.6	28.1/19.2
		-40°C	10.4/7.6	11.6/8.8	13.7/10.7	16.8/13.5	21.2/16.4	23.2/17.9
风机 Fan	电压Voltage(V)	3P/380V/50Hz						
	电流Current (A)	2.2	2.2	2.2	3.5	5.2	5.2	
	功率Power(W)	548×2	548×2	548×2	937×2	937×3	937×3	
	转速Rev.(r/min)	1380	1380	1380	1380	1380	1380	
吸气接口Suction Line(mm)		φ 35	φ 35	φ 35	φ 42	φ 42	φ 42	
供液接口Liquid Line(mm)		φ 19	φ 19	φ 19	φ 22	φ 22	φ 22	
重量 Weight kg		256	269	269	443	519	531	
尺寸 Size	长Length(mm)	1650	1650	1650	1850	2500	2500	
	宽Width(mm)	815	815	815	915	915	915	
	高Height(mm)	1202	1202	1202	1329	1329	1329	

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

UNIT CONFIGURATION 机组配置

→ 高温型及中温型机组 HIGH TEMPERATURE AND MEDIUM TEMPERATURE UNITS

机组配件 Unit Accessories	BTEBF													
	03H 03M	04H 04M	05H 05M	06H 06M	07H 07M	08H 08M	10H 10M	12H 12M	13H 13M	15H 15M	20H 20M	22H 22M	25H 25M	30H 30M
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
冷 凝 器 Condenser	●	●	●	●	●	●	●	●	●	●	●	●	●	●
A C 电 机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
储 液 器 Liquid Reservoir	●	●	●	●	●	●	●	●	●	●	●	●	●	●
出口截止阀 Gas-Liquid Separator	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油 分 离 器 Oil Separator	●	●	●	●	●	●	●	●	●	●	●	●	●	●
气 液 分 离 器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
干 燥 过 滤 器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●	●	●
视 液 镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●	●	●
电 磁 阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高 压 保 护 HP Switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●
低 压 保 护 LP Switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
吸气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机 组 电 控 Electric Control For Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明：● 出厂标配；▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.

机组

BT 箱式冷凝机组(比泽尔)

BT Box Type Condensing Unit (BITZER)



快速制冷
Fast Refrigeration



保温隔热
Thermal Insulation



吸音降噪
Low Vibration



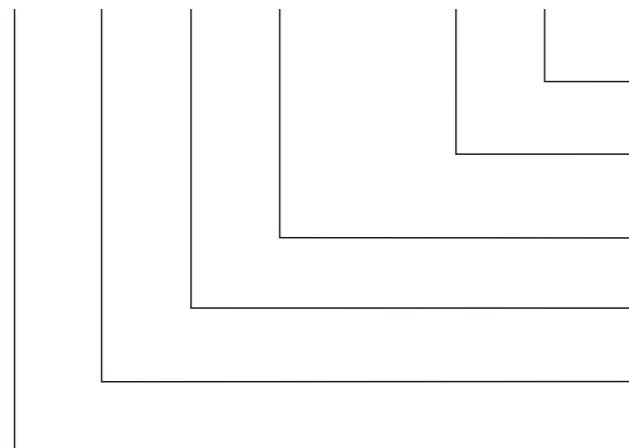
节能省电
Energy-Saving

产品概述 PRODUCT OVERVIEW

- ◆ BT系列箱式冷凝机组产品主要针对冷库应用而开发的:
- ◆ 主机采用比泽尔或莱富康半封闭活塞式制冷压缩机，质量好、可靠性高;
- ◆ 机组设计分高温、中温及低温应用;
 - 高温机组可满足8~15℃的冷库使用;
 - 中温机组可满足-5~5℃的冷库使用;
 - 低温机组可满足-15~-35℃的冷库使用;
- ◆ 采用整体拉伸的大圆角高风圈设计，具有导风效果好、噪音小、外形美观等特点;
- ◆ 机箱面板贴蜂窝吸音棉设计，有效降低机组运行噪音和钣金共振;
- ◆ 采用U型冷凝器，具有迎风面积大，风阻小，换热效果好;
- ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。
- ◆ The BT series box type condensing unit products are mainly developed for cold storage applications:
- ◆ The host adopts Bitzer or RefComp semi closed piston refrigeration compressor, which has good quality and high reliability;
- ◆ The unit design is divided into high temperature, medium temperature, and low temperature applications:
 - High temperature units can meet the needs of cold storage at 8~15 °C;
 - The medium temperature unit can meet the cold storage needs of -5~5 °C;
 - The low-temperature unit can meet the cold storage needs of -15 ~ -35 °C;
- ◆ Adopting a large rounded high wind ring design with overall stretching, it has the characteristics of good air guiding effect, low noise, and beautiful appearance;
- ◆ The chassis panel is designed with honeycomb sound-absorbing cotton, effectively reducing the operating noise and sheet metal resonance of the unit;
- ◆ Adopting a U-shaped condenser, it has a large windward area, low wind resistance, and good heat transfer effect;
- ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc

型号说明 MODEL DESCRIPTION

BT B B F - 10 M



适用温度代码: H: 高温, M: 中温, L: 低温
Applicable temperature code: H: High temperature,
M: Medium temperature, L: low temperature

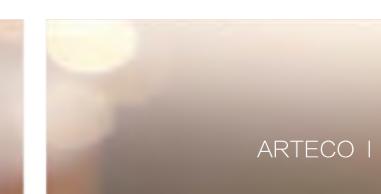
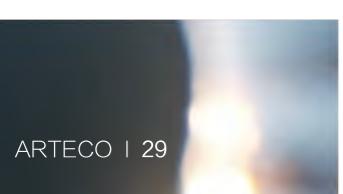
压缩机额定功率 (HP)
Rated power of compressor (HP)

冷却形式: F: 风冷式, S: 水冷式
Cooling form: F: Air-cooled type, S: Water cooled type

制冷剂代码: A: R22, B: R404A/R507A
Refrigerant code: A: R22, B: R404A/R507A

压缩机品牌代码: E: 艾默生, B: 比泽尔
Compressor brand code: E: Emerson, B: Bitzer

产品系列
Product series



MAIN TECHNICAL PARAMETERS 主要技术参数



→ 高温型机组 HIGH TEMPERATURE UNIT

机组型号 Model		BTBBF05H	BTBBF06H	BTBBF07H	BTBBF09H	BTBBF10H	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		5°C ~ 15°C					
压缩机 Comp.	型 号 Model	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y	4VES-10Y	
	最大电流 Max.I(A)	10.8	13.6	16.5	20.2	19.9	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	10°C	18.2/4.5	23.1/5.8	26.7/6.6	33.6/8.5	37.2/8.7
		5°C	15.5/4.3	19.6/5.5	22.7/6.3	28.8/8.0	31.5/8.2
		0°C	12.9/4.1	16.4/5.2	19.0/6.0	24.0/7.6	26.1/7.7
	R404A R507A	7.5°C	17.0/5.1	21.4/6.5	25.1/7.5	32.5/9.5	33.4/9.7
		5°C	16.0/4.9	20.1/6.3	23.6/7.2	29.7/9.1	31.2/9.3
		0°C	13.3/4.6	16.7/5.9	19.6/6.8	24.5/8.7	25.8/8.6
		电压 Voltage(V)	3P/380V/50Hz				
风机 Fan	电 流 Current (A)	1.1	1.1	1.2	2.2	2.2	
	功 率 Power(W)	548 × 1	548 × 1	290 × 2	548 × 2	548 × 2	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	
	吸气接口 Suction Line(mm)	φ 22	φ 28	φ 28	φ 28	φ 28	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 16	φ 16	φ 16	
重 量 Weight		kg	230	238	252	292	339
尺寸 Size	长 Length(mm)	1050	1050	1420	1650	1650	
	宽 Width(mm)	815	815	715	815	815	
	高 Height(mm)	1102	1102	1070	1202	1202	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.							

→ 中温型机组 MEDIUM TEMPERATURE UNIT

机组型号 Model		BTBBF05M	BTBBF06M	BTBBF07M	BTBBF09M	BTBBF10M	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C ~ 5°C					
压缩机 Comp.	型 号 Model	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y	4VES-10Y	
	最大电流 Max.I(A)	10.8	13.6	16.5	20.2	19.9	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	-5°C	10.5/3.8	13.3/4.9	15.5/5.6	19.6/7.2	21.2/7.2
		-8°C	9.3/3.7	11.8/4.7	13.7/5.4	17.3/6.9	18.7/6.9
		-10°C	8.6/3.5	10.9/4.5	12.7/5.2	16.0/6.7	17.2/6.6
	R404A R507A	-5°C	10.7/4.4	13.5/5.5	15.8/6.4	19.8/8.1	20.6/8.0
		-8°C	9.5/4.2	11.9/5.3	14.0/6.1	17.3/7.8	18.1/7.6
		-10°C	8.8/4.1	11.0/5.1	12.9/5.9	16.0/7.5	16.6/7.3
		电压 Voltage(V)	3P/380V/50Hz				
风机 Fan	电 流 Current (A)	1.1	1.1	1.2	2.2	2.2	
	功 率 Power(W)	548 × 1	548 × 1	290 × 2	548 × 2	548 × 2	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	
	吸气接口 Suction Line(mm)	φ 22	φ 28	φ 28	φ 28	φ 28	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 16	φ 16	φ 16	
重 量 Weight		kg	230	230	247	292	339
尺寸 Size	长 Length(mm)	1050	1050	1420	1650	1650	
	宽 Width(mm)	815	815	715	815	815	
	高 Height(mm)	1102	1102	1070	1202	1202	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.							

机组型号 Model		BTBBF12H	BTBBF15H	BTBBF20H	BTBBF25H	BTBBF30H	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		5°C ~ 15°C					
压缩机 Comp.	型 号 Model	4TES-12Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	
	最大电流 Max.I(A)	25.1	28.2	33.2	44.0	51.2	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	10°C	44.7/10.6	51.6/12.1	60.6/14.2	80.2/18.9	92.8/21.7
		5°C	37.9/10.1	43.6/11.5	51.2/13.5	68.0/18.0	78.7/20.7
		0°C	31.5/9.4	36.2/10.8	42.6/12.6	56.7/16.9	65.7/19.5
	R404A R507A	7.5°C	40.3/11.8	46.4/13.5	54.9/16.0	70.9/21.0	81.0/24.3
		5°C	37.7/11.4	43.3/13.0	51.4/15.4	66.6/20.2	76.2/23.4
		0°C	31.1/10.6	35.6/12.1	42.5/14.3	55.5/18.9	63.6/21.8
		电压 Voltage(V)	3P/380V/50Hz				
风机 Fan	电 流 Current (A)	2.2	3.5	3.5	5.2	5.2	
	功 率 Power(W)	548 × 2	937 × 2	937 × 2	937 × 3	937 × 3	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	
	吸气接口 Suction Line(mm)	φ 35	φ 42	φ 42	φ 54	φ 54	
供液接口 Liquid Line(mm)		φ 16	φ 22	φ 22	φ 22	φ 22	
重 量 Weight		kg	345	413	426	553	567
尺寸 Size	长 Length(mm)	1650	1850	1850	2500	2500	
	宽 Width(mm)	815	915	915	915	915	
	高 Height(mm)	1202	1329	1329	1329	1329	
备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.							

机组型号 Model		BTBBF12M	BTBBF15M	BTBBF20M	BTBBF25M	BTBBF30M
电 源 Power Supply		3P/380V/50Hz				

MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温型机组 LOW TEMPERATURE UNIT

机组型号 Model		BTBBF05L	BTBBF06L	BTBBF09L	BTBBF12L	BTBBF14L	BTBBF15L
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15°C ~ -35°C					
压缩机 Comp.	型 号 Model	4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y	4NES-14Y	4JE-15Y
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp.	最大电流 Max.I(A)	14.5	17.7	19.9	22.7	26.6
		-25°C	6.1/3.8	7.9/4.9	9.9/6.0	11.5/6.7	13.4/7.9
		-30°C	4.6/3.2	6.1/4.2	7.5/5.2	8.7/5.8	10.1/6.8
		-35°C	3.4/2.7	4.5/3.6	5.5/4.4	6.3/4.9	7.4/5.7
		R22	6.2/4.4	7.7/5.4	9.4/6.4	10.4/6.9	12.8/8.6
		R404A R507A	-30°C	4.8/3.8	5.9/4.6	7.1/5.4	7.7/5.8
风机 Fan	-35°C	3.6/3.2	4.4/3.9	5.2/4.5	5.6/4.7	7.1/6.0	8.7/7.3
	电压 Voltage(V)		3P/380V/50Hz				
	电流 Current (A)		1.1	1.1	1.2	1.2	2.2
	功率 Power(W)		548×1	548×1	290×2	290×2	548×2
	转速 Rev.(r/min)		1380	1380	1380	1380	1380
	吸气接口 Suction Line(mm)		φ 28	φ 28	φ 35	φ 35	φ 42
尺寸 Size	供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 16	φ 16	φ 22
	重量 Weight		kg	229	234	295	303
	长Length(mm)		1050	1050	1420	1420	1650
	宽Width(mm)		815	815	715	715	815
	高Height(mm)		1102	1102	1070	1070	1202
	备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.						

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

机组型号 Model		BTBBF18L	BTBBF23L	BTBBF28L	BTBBF28L	BTBBF34L	BTBBF44L
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15°C ~ -35°C					
压缩机 Comp.	型 号 Model	4HE-18Y	4GE-23Y	4FE-28Y	6HE-28Y	6GE-34Y	6FE-44Y
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp.	最大电流 Max.I(A)	36.7	43.9	52.8	65.5	65.5
		-25°C	17.1/10.4	19.8/12.5	23.6/14.9	25.6/15.6	29.7/18.7
		-30°C	12.7/8.9	14.8/10.7	17.7/12.8	19.1/13.3	22.2/16.0
		-35°C	9.1/7.4	10.6/8.9	12.7/10.6	13.7/11.0	15.9/13.3
		R22	18.2/12.0	21.5/14.3	25.7/17.1	26.8/17.7	32.4/21.8
		R404A R507A	-30°C	14.1/10.3	16.7/12.3	20.0/14.7	20.6/15.2
风机 Fan	-35°C	10.5/8.7	12.6/10.4	15.1/12.5	15.5/12.8	19.4/16.1	22.7/19.3
	电压 Voltage(V)		3P/380V/50Hz				
	电流 Current (A)		2.2	3.5	3.5	3.5	5.2
	功率 Power(W)		548×2	937×2	937×2	937×2	937×3
	转速 Rev.(r/min)		1380	1380	1380	1380	1380
	吸气接口 Suction Line(mm)		φ 42	φ 54	φ 54	φ 54	φ 54
尺寸 Size	供液接口 Liquid Line(mm)		φ 22	φ 22	φ 22	φ 22	φ 28
	重量 Weight		kg	402	460	480	509
	长Length(mm)		1650	1850	1850	1850	2500
	宽Width(mm)		815	915	915	915	915
	高Height(mm)		1202	1329	1329	1329	1329
	备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.						

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

→ 低温速冻型机组 LOW TEMPERATURE QUICK FREEZING UNIT

机组型号 Model		BTBBF20J	BTBBF25J	BTBBF30J	
电 源 Power Supply		3P/380V/50Hz			
适用温度 Apply Temp.		-25°C ~ -45°C			
压缩机 Comp.	型 号 Model	S6H-20.2Y	S6G-25.2Y	S6F-30.2Y	
制冷量/功率(KW) Capacity/Power(KW)	最大电流 Max.I(A)	37.0	45.0	53.0	
		-30°C	24.1/17.9	27.5/20.5	
风 机 Fan	蒸发温度 Evap. Temp.	-35°C	20.3/16.0	23.1/18.4	
		-40°C	16.7/14.3	19.1/16.4	
		-45°C	13.6/12.7	15.5/14.6	
		-50°C	10.9/11.2	12.4/12.9	
		-55°C	8.5/9.8	9.7/11.2	
		R404A R507A	2500	2500	
电压 Voltage(V)		3P/380V/50Hz			
电流 Current (A)		5.2	5.2	5.2	
功率 Power(W)		937×3	937×3	937×3	
转速 Rev.(r/min)		1380	1380	1380	
吸气接口 Suction Line(mm)		φ 54	φ 54	φ 54	
供液接口 Liquid Line(mm)		φ 22	φ 22	φ 22	
重量 Weight		kg	571	584	
尺寸 Size	长Length(mm)		2500	2500	
	宽Width(mm)		915	915	
	高Height(mm)		1329	1329	

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

UNIT CONFIGURATION

机组配置

→ 高温型及中温型机组 HIGH TEMPERATURE AND MEDIUM TEMPERATURE UNITS

机组配件 Unit Accessories	BTBBF									
	05H 05M	06H 06M	07H 07M	09H 09M	10					

UNIT CONFIGURATION

机组配置

→ 低温型机组 LOW TEMPERATURE UNIT

机组配件 Unit Accessories	BTBBF										
	05L	06L	09L	12L	14L	15L	18L	23L	28L	34L	44L
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●	●
油加热带 Oil Heater	●	●	●	●	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●	●	●
A C 电机 AC Motor	●	●	●	●	●	●	●	●	●	●	●
储液器 Liquid Reservoir	●	●	●	●	●	●	●	●	●	●	●
出口截止阀 Gas-Liquid Separator	●	●	●	●	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高压保护 HP Switch	●	●	●	●	●	●	●	●	●	●	●
低压保护 LP Switch	●	●	●	●	●	●	●	●	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
吸气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control For Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.

→ 低温速冻型机组 LOW TEMPERATURE QUICK FREEZING UNIT

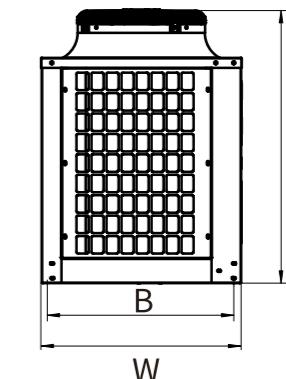
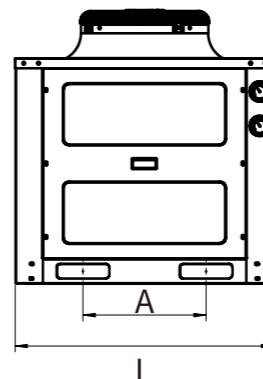
机组配件 Unit Accessories	BTBBF		
	20J	25J	30J
压缩机 Compressor	●	●	●
油加热带 Oil Heater	●	●	●
冷凝器 Condenser	●	●	●
A C 电机 AC Motor	●	●	●
储液器 Liquid Reservoir	●	●	●
出口截止阀 Gas-Liquid Separator	●	●	●
油分离器 Oil Separator	●	●	●
气液分离器 Accumulator	●	●	●
干燥过滤器 Liquid Filter	●	●	●
视液镜 Sight Glass	●	●	●
电磁阀 Solenoid Valve	●	●	●
高压保护 HP Switch	●	●	●
低压保护 LP Switch	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●
供液管接口阀 Liquid Line Valve	▲	▲	▲
吸气管接口阀 Suction Line Valve	▲	▲	▲
机组电控 Electric Control For Unit	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.

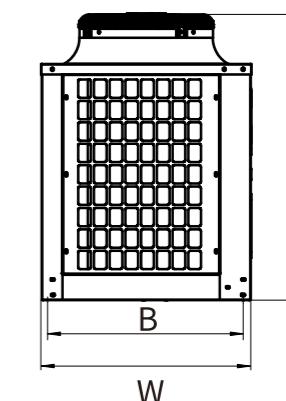
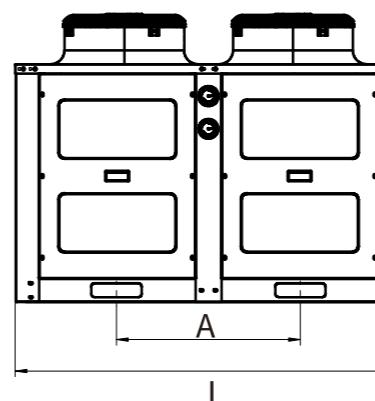
OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT

机组外形及安装尺寸图

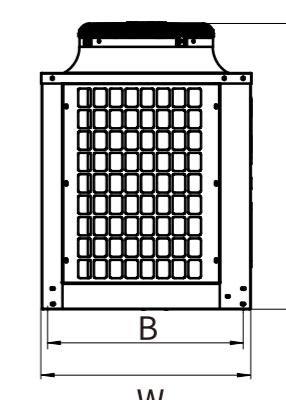
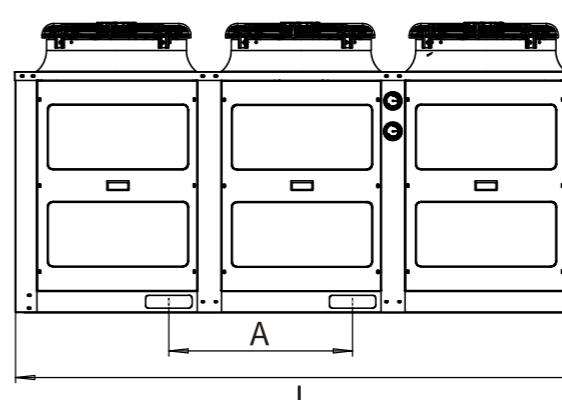
● 单风口 Single Air Vent



● 双风口 Dual Air Vents

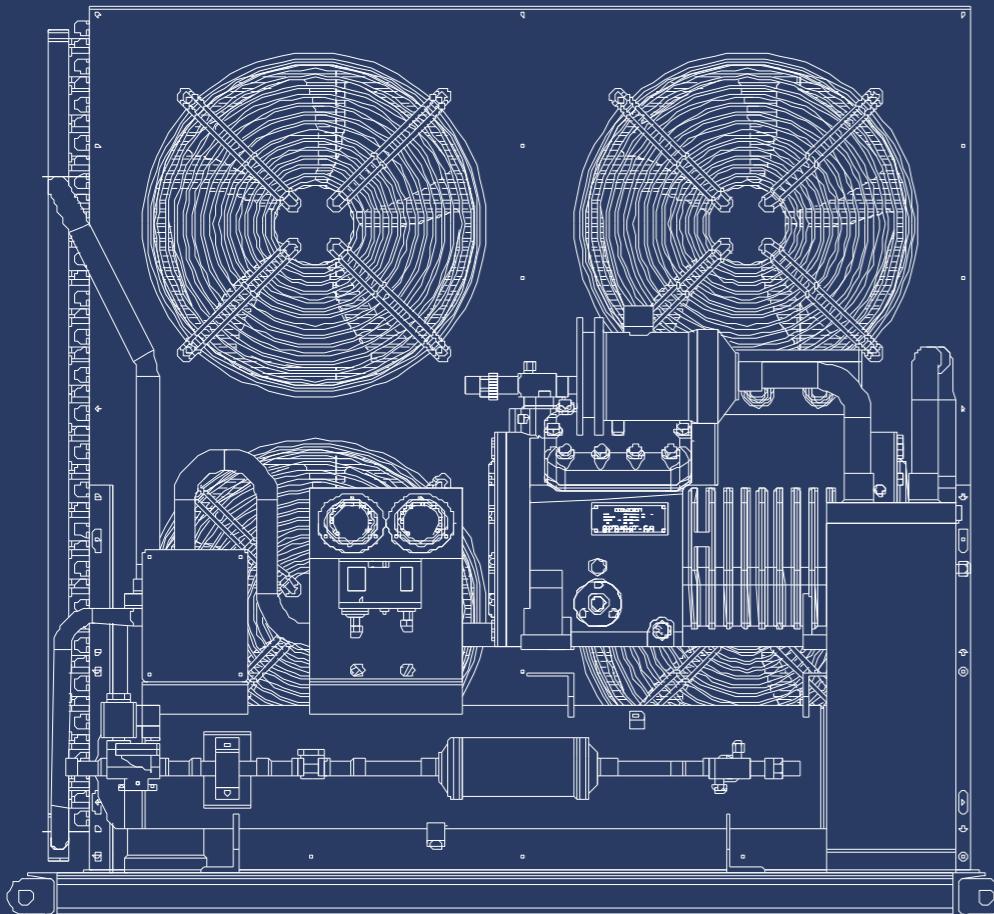


● 三风口 Three Air Vents



02

OPEN TYPE CONDENSING UNIT 敞开式冷凝机组



CV涡旋压缩机风冷冷凝机组

CV涡旋压缩机水冷冷凝机组

CP半封闭活塞压缩机风冷冷凝机组

CP半封闭活塞压缩机水冷冷凝机组

....

CV 涡旋压缩机风冷冷凝机组

CV Vortex Compressor Air-Cooled Condensing Unit



智能操控
Intelligent Control



高效散热
Efficient Cooling



运行平稳
Smooth Operation



操作简便
Easy To Operate

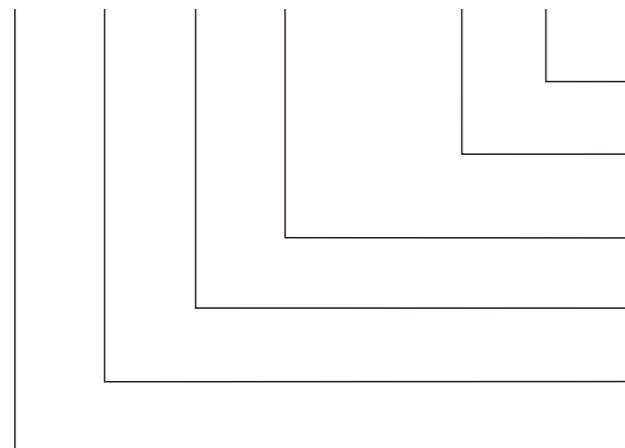
➤ 产品概述 PRODUCT OVERVIEW

- ◆ CV系列敞开式风冷冷凝机组主要针对冷库应用而开发的；
- ◆ 主机采用艾默生ZB或ZFI系列全封闭涡旋压缩机，质量好、可靠性高；
- ◆ 机组设计分高温、中温及低温应用：
 - 高温机组可满足8~15℃的冷库使用；
 - 中温机组可满足-5~5℃的冷库使用；
 - 低温机组可满足-15~-35℃的冷库使用；
- ◆ 风冷冷凝器与压缩机及各种配件安装在一个机架上，结构紧凑、操作检修方便；
- ◆ 采用外转子风机，噪音小、效率高；
- ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。

- ◆ The CV series open air-cooled condensing unit is mainly developed for cold storage applications;
- ◆ The host adopts Emerson ZB or ZFI series fully enclosed scroll compressors with good quality and high reliability;
- ◆ Unit design is divided into high temperature, medium temperature, and low temperature applications:
 - High temperature units can meet the needs of cold storage at 8~15 °C;
 - The medium temperature unit can meet the cold storage needs of -5~5 °C;
 - The low-temperature unit can meet the cold storage needs of -15 ~ -35 °C;
- ◆ The air-cooled condenser, compressor, and various accessories are installed on the same rack, with a compact structure and easy operation and maintenance;
- ◆ Adopting an external rotor fan with low noise and high efficiency;
- ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc.

➤ 型号说明 MODEL DESCRIPTION

CV E B F - 15 M



适用温度代码: H: 高温, M: 中温, L: 低温
Applicable temperature code: H: High temperature,
M: Medium temperature, L: low temperature

压缩机额定功率 (HP)
Rated power of compressor (HP)

冷却形式: F: 风冷式, S: 水冷式
Cooling form: F: Air-cooled type, S: Water cooled type

制冷剂代码: A: R22, B: R404A/R507A
Refrigerant code: A: R22, B: R404A/R507A

压缩机品牌代码: E: 艾默生, Y: 英华特
Compressor brand code: E: Emerson, Y: Invotech

产品系列
Product series



MAIN TECHNICAL PARAMETERS 主要技术参数



→ 高温型机组 HIGH TEMPERATURE UNIT

机组型号 Model			CVEBF02H	CVEBF03H	CVEBF04H	CVEBF05H	CVEBF06H	CVEBF07H	CVEBF08H	CVEBF09H		
电 源 Power Supply			3P/380V/50Hz									
适用温度 Apply Temp.			5°C ~ 15°C									
压缩机 Comp.	型 号 Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB66KQE			
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp.	R22	10°C	6.7/1.6	9.8/2.4	13.1/3.1	16.3/3.9	19.6/4.5	21.6/4.9	26.1/5.8	29.3/6.5	
			5°C	5.8/1.6	8.4/2.3	11.2/3.0	14.0/3.8	16.9/4.3	18.6/4.8	22.3/5.6	25.3/6.1	
			0°C	4.9/1.5	7.1/2.3	9.6/2.9	11.9/3.7	14.4/4.2	15.9/4.7	18.9/5.5	21.5/6.1	
	R404A R507A	R22	10°C	6.5/1.8	9.7/2.6	13.2/3.4	16.7/4.3	19.6/4.8	21.5/5.3	25.9/6.6	28.8/7.5	
			5°C	5.6/1.7	8.4/2.5	11.4/3.3	14.4/4.2	16.9/4.8	18.6/5.3	22.4/6.5	25.0/7.2	
			0°C	4.8/1.7	7.2/2.5	9.8/3.3	12.4/4.1	14.5/4.7	15.9/5.2	19.2/6.4	21.4/7.1	
风机 Fan	电压Voltage(V)		3P/380V/50Hz									
	电流Current (A)		0.46	0.92	0.92	0.92	1.2	1.2	1.2	1.8		
	功率Power(W)		216×1	216×2	216×2	216×2	290×2	290×2	290×2	216×4		
	转速Rev.(r/min)		1380	1380	1380	1380	1380	1380	1380			
吸气接口Suction Line(mm)			φ 19	φ 19	φ 22	φ 22	φ 22	φ 28	φ 35			
供液接口Liquid Line(mm)			φ 9.52	φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16			
重量 Weight		kg	78	103	114	122	147	149	173	211		
尺寸 Size	长Length(mm)		850	1050	1050	1050	1260	1260	1260			
	宽Width(mm)		750	780	780	780	850	850	850	950		
	高Height(mm)		590	740	740	740	890	890	890	1340		

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

→ 中温型机组 MEDIUM TEMPERATURE UNIT

机组型号 Model			CVEBF02M	CVEBF03M	CVEBF04M	CVEBF05M	CVEBF06M	CVEBF07M	CVEBF08M	CVEBF09M		
电 源 Power Supply			3P/380V/50Hz									
适用温度 Apply Temp.			-5°C ~ 5°C									
压缩机 Comp.	型 号 Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB66KQE			
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp.	R22	10°C	4.1/1.5	5.9/2.2	8.0/2.9	9.9/3.6	12.0/4.2	13.2/4.6	15.4/4.5	17.8/6.1	
			-5°C	3.6/1.5	5.3/2.2	7.1/2.8	8.8/3.6	10.7/4.2	11.7/4.6	13.5/5.5	15.8/6.0	
			-10°C	3.4/1.5	4.9/2.2	6.6/2.8	8.2/3.5	9.9/4.1	11.0/4.5	12.5/5.3	14.7/6.0	
	R404A R507A	R22	5°C	3.9/1.8	5.9/2.5	8.1/3.3	10.2/4.2	11.9/4.7	13.1/5.2	15.8/6.4	17.7/7.1	
			-5°C	3.5/1.8	5.3/2.5	7.1/3.3	9.0/4.2	10.6/4.7	11.6/5.2	14.0/6.3	15.7/7.1	
			-8°C	3.3/1.8	4.9/2.5	6.7/3.3	8.5/4.1	9.9/4.6	10.9/5.1	13.1/6.2	14.7/7.1	
			-10°C									
风机 Fan	电压Voltage(V)		3P/380V/50Hz									
	电流Current (A)		0.46	0.46	0.92	0.92	0.92	1.2	1.2	1.2		
	功率Power(W)		216×1	216×1	216×2	216×2	216×2	290×2	290×2	290×2		
	转速Rev.(r/min)		1380	1380	1380	1380	1380	1380	1380	1380		
吸气接口Suction Line(mm)			φ 19	φ 19	φ 22	φ 22	φ 22	φ 28	φ 35			
供液接口Liquid Line(mm)			φ 9.52	φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16			
重量 Weight		kg	78	84	110	119	124	149	168	177		
尺寸 Size	长Length(mm)		850	850	1050	1050	1050	1260	1260	1260		
	宽Width(mm)		750	750	780	780	780	850	850	850		
	高Height(mm)		590	590	740	740	740	890	890	890		

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

机组型号 Model			CVEBF10H	CVEAF12H	CVEBF13H	CVEBF15H	CVEBF20H	CVEBF22H	CVEBF25H	CVEBF30H	
电 源 Power Supply			3P/380V/50Hz								
适用温度 Apply Temp.			5°C ~ 15°C								
压缩机 Comp.	型 号 Model	ZB76KQE	ZB88KQE	ZB95KQE	ZB114KQE	ZB130KQE	ZB150KQE	ZB190KQE	ZB220KQE		
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp.	R22	10°C	34.4/7.7	39.2/8.7	42.1/9.8	50.7/11.7	56.2/12.4	66.1/15.4	82.9/19.3	101/23.5
			5°C	29.7/7.4	34.0/8.2	36.2/9.5	43.5/11.2	48.4/12.0	56.8/14.6	70.9/18.1	87.3/22.1
			0°C	25.3/7.2	29.0/8.1	30.7/9.2	36.8/10.9	41.2/11.6	48.4/14.4	59.8/17.8	74.7/21.8

MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温型机组 (带EVI喷气增焓) LOW TEMPERATURE UNIT WITH EVI (ENHANCED VAPOR INJECTION)

机组型号 Model		CVEBF04L	CVEBF05L	CVEBF06L	CVEBF08L	CVEBF10L	CVEBF13L	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15°C ~ -35°C						
压缩机 Comp.	型 号 Model	ZFI20KQE	ZFI23KQE	ZFI26KQE	ZFI36KQE	ZFI39KQE	ZFI50KQE	
	最大电流 Max.I(A)	12.0	13.6	13.0	16.6	20.3	25.0	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	-15°C	8.2/3.5	9.8/4.5	11.7/5.4	14.5/6.6	16.6/8.0	19.8/8.8
		-20°C	6.9/3.4	8.3/4.3	9.9/5.2	12.4/6.3	14.2/7.6	16.9/8.3
		-25°C	5.8/3.2	7.1/4.0	8.4/4.8	10.6/5.8	12.2/7.0	14.3/7.7
		-30°C	4.8/3.0	6.0/3.7	7.1/4.5	9.0/5.4	10.3/6.5	11.9/7.2
		-35°C	3.9/2.9	5.3/3.5	6.0/4.2	7.5/4.9	8.6/6.0	10.6/6.7
		-40°C	3.2/2.8	4.8/3.3	5.0/4.0	6.2/4.5	7.1/5.4	8.5/6.2
		电压 Voltage(V)	3P/380V/50Hz					
风机 Fan	电流 Current (A)	0.92	0.92	0.92	1.2	1.2	1.8	
	功率 Power(W)	216×2	216×2	216×2	290×2	290×2	216×4	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	1380	
	吸气接口 Suction Line(mm)	φ 22	φ 22	φ 22	φ 22	φ 22	φ 35	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16	φ 16	
重量 Weight kg		118	122	125	152	158	217	
尺寸 Size	长 Length(mm)	1050	1050	1050	1260	1260	1260	
	宽 Width(mm)	780	780	780	850	850	950	
	高 Height(mm)	740	740	740	890	890	1340	
备注: 参数标定工况, 环境温度32°C, 过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.								

UNIT CONFIGURATION 机组配置

→ 高温型及中温型机组 HIGH TEMPERATURE AND MEDIUM TEMPERATURE UNITS

机组配件 Unit Accessories	CVEBF														
	02H 02M	03H 03M	04H 04M	05H 05M	06H 06M	07H 07M	08H 08M	09H 09M	10H 10M	12H 12M	13H 13M	15H 15M	20H 20M	22H 22M	25H 25M
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
冷 凝 器 Condenser	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
A C 电 机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
储 液 器 Liquid Reservoir	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
出口 截 止 阀 Gas-Liquid Separator	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油 分 离 器 Oil Separator	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
气 液 分 离 器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
干 燥 过 滤 器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
视 液 镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
电 磁 阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
吸气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机 组 电 控 Electric Control For Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.

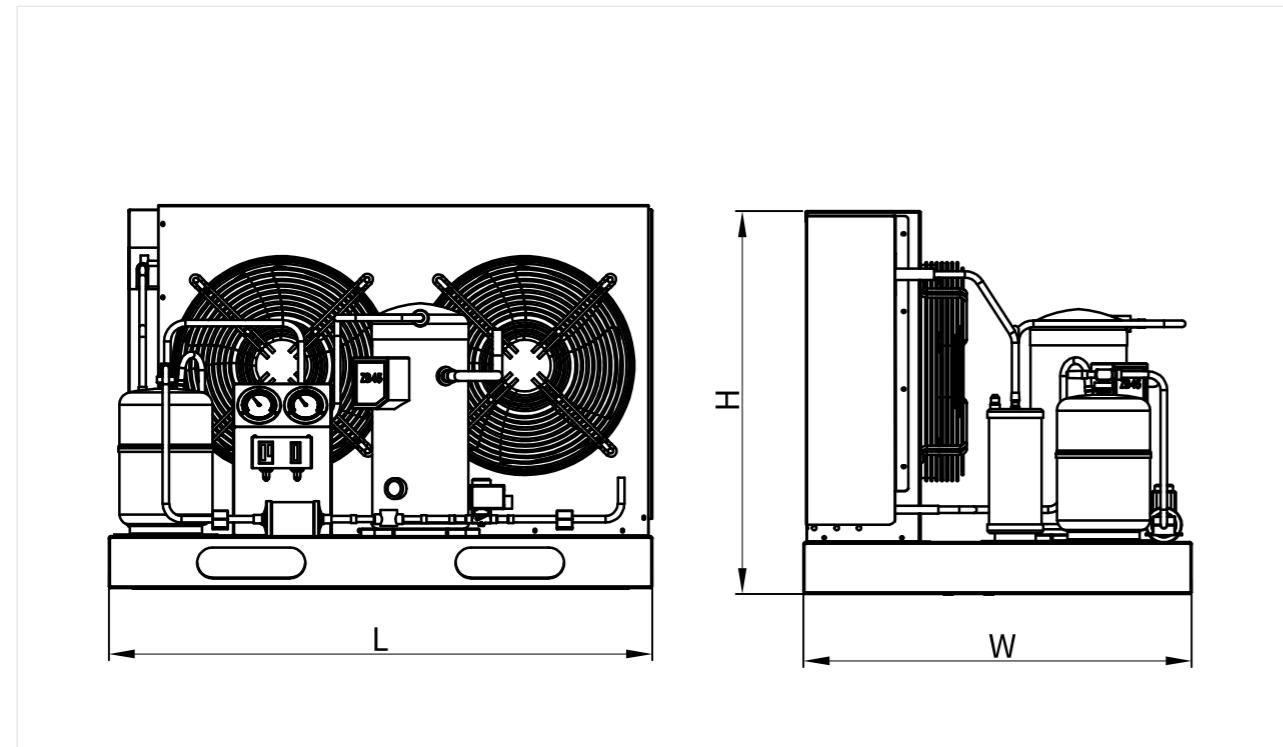
→ 低温型机组 (带EVI喷气增焓) LOW TEMPERATURE UNIT WITH EVI (ENHANCED VAPOR INJECTION)

机组配件 Unit Accessories	CVEBF											
	04L	05L	06L	08L	10L	13L	15L	18L	20L	25L	30L	40L
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
冷 凝 器 Condenser	●	●	●	●	●	●	●	●	●	●	●	●
A C 电 机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●
储 液 器 Liquid Reservoir	●	●	●	●	●	●	●	●	●	●	●	●
出口 截 止 阀 Gas-Liquid Separator	●	●	●	●	●	●	●	●	●	●	●	●
油 分 离 器 Oil Separator	●	●	●	●	●	●	●	●	●	●	●	●
气 液 分 离 器 Accumulator	●	●	●	●	●	●	●	●	●	●	●	●
干 燥 过 滤 器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●
视 液 镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●
电 磁 阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
吸气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机 组 电 控 Electric Control For Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.

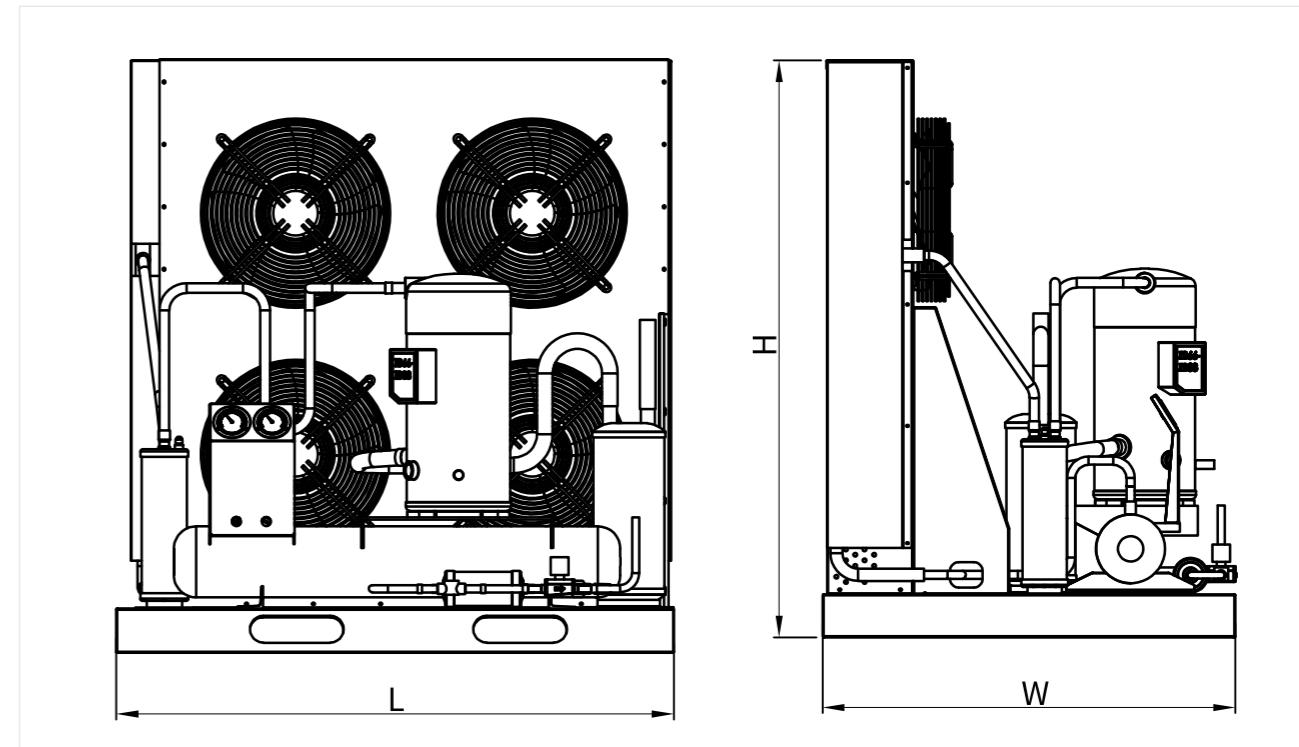
OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT

机组外形及安装尺寸图



OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT

机组外形及安装尺寸图



CV 涡旋压缩机水冷冷凝机组

CV Vortex Compressor Water-Cooled Condensing Unit



智能操控
Intelligent Control



结构紧凑
Compact



维修方便
Convenient Maintenance



安装便捷
Easy Installation

产品概述 PRODUCT OVERVIEW

◆ CV系列敞开式水冷冷凝机组主要针对冷库应用而开发的；

◆ 主机采用艾默生ZB或ZFI系列全封闭涡旋压缩机，质量好、可靠性高；

◆ 机组设计分高温、中温及低温应用：

● 高温机组可满足8~15℃的冷库使用；

● 中温机组可满足-5~5℃的冷库使用；

● 低温机组可满足-15~-35℃的冷库使用；

◆ 采用高效壳管式冷凝器，冷却效果好、冷凝温度低、能效高；

◆ 壳管冷凝器与压缩机及各种配件安装在一个机架上，结构紧凑、操作检修方便；

◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。

◆ The CV series open water-cooled condensing unit is mainly developed for cold storage applications;

◆ The host adopts Emerson ZB or ZFI series fully enclosed scroll compressors with good quality and high reliability;

◆ Unit design is divided into high temperature, medium temperature, and low temperature applications:

● High temperature units can meet the needs of cold storage at 8~15 °C;

● The medium temperature unit can meet the cold storage needs of -5~5 °C;

● The low-temperature unit can meet the cold storage needs of -15 ~ -35 °C;

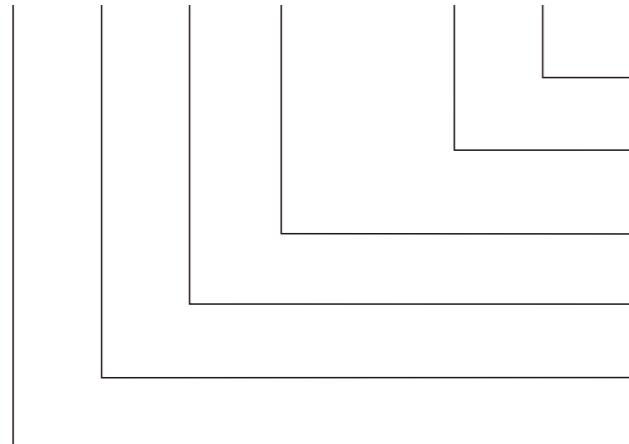
◆ Adopting an efficient shell and tube condenser, it has good cooling effect, low condensation temperature, and high energy efficiency;

◆ The shell and tube condenser, compressor, and various accessories are installed on the same rack, with a compact structure and easy operation and maintenance;

◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc.

型号说明 MODEL DESCRIPTION

CV E B S - 15 M



MAIN TECHNICAL PARAMETERS 主要技术参数



→ 高温型机组 HIGH TEMPERATURE UNIT

机组型号 Model		CVEBS05H	CVEBS06H	CVEBS07H	CVEBS08H	CVEBS09H	CVEBS10H	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		5°C ~ 15°C						
压缩机 Comp.	型 号 Model	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB66KQE	ZB76KQE	
	最大电流 Max.I(A)	13.5	16.1	17.0	23.0	24.2	26.9	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R22	10°C	17.8/3.4	21.4/3.9	23.6/4.2	28.4/5.1	31.8/5.7	37.4/6.7
		5°C	15.2/3.3	18.3/3.8	20.1/4.2	24.1/5.0	27.4/5.6	31.9/6.5
		0°C	12.8/3.3	15.5/3.8	17.0/4.2	20.2/4.9	22.9/5.5	27.0/6.4
	R404A R507A	10°C	19.3/3.7	22.6/4.2	24.9/4.6	29.8/5.8	33.4/6.6	39.5/7.6
		5°C	16.6/3.7	19.5/4.2	21.4/4.6	25.7/5.8	28.8/6.5	34.1/7.6
		0°C	13.9/3.7	16.2/4.2	17.9/4.6	21.4/5.8	24.0/6.5	28.5/7.6
冷凝器 Condenser	额度水流量 Water Flow(m³/h)	3.5	4.1	4.5	5.4	6.1	7.2	
	进出水管接口 Water Connect(inch)	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	
吸气接口 Suction Line(mm)		φ 22	φ 22	φ 22	φ 28	φ 35	φ 35	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16	φ 16	
重量 Weight kg		119	121	124	143	158	164	
尺寸 Size	长Length(mm)	1140	1140	1140	1140	1390	1390	
	宽Width(mm)	650	650	650	650	650	650	
	高Height(mm)	880	880	885	926	1025	1025	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

→ 中温型机组 MEDIUM TEMPERATURE UNIT

机组型号 Model		CVEBS05M	CVEBS06M	CVEBS07M	CVEBS08M	CVEBS09M	CVEBS10M	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-5°C ~ 5°C						
压缩机 Comp.	型 号 Model	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB66KQE	ZB76KQE	
	最大电流 Max.I(A)	13.5	16.1	17.0	23.0	24.2	26.9	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R22	-5°C	10.7/3.2	12.9/3.8	14.2/4.1	16.6/4.9	19.0/5.4	22.4/6.4
		-8°C	9.5/3.2	11.6/3.8	12.7/4.1	14.8/4.9	17.1/5.4	20.1/6.3
		-10°C	8.8/3.2	10.7/3.7	11.8/4.1	13.5/4.9	15.7/5.4	18.6/6.3
	R404A R507A	-5°C	11.5/3.7	13.4/4.2	14.8/4.6	17.7/5.7	19.9/6.4	23.6/7.5
		-8°C	10.3/3.7	12.1/4.2	13.2/4.6	16.0/5.7	17.9/6.4	21.2/7.4
		-10°C	9.5/3.7	11.1/4.2	12.2/4.6	14.7/5.7	16.3/6.3	19.6/7.4
冷凝器 Condenser	额度水流量 Water Flow(m³/h)	3.3	3.8	4.2	5.0	5.7	6.7	
	进出水管接口 Water Connect(inch)	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	
吸气接口 Suction Line(mm)		φ 22	φ 22	φ 22	φ 28	φ 35	φ 35	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16	φ 16	
重量 Weight kg		119	121	124	143	158	161	
尺寸 Size	长Length(mm)	1140	1140	1140	1140	1390	1390	
	宽Width(mm)	650	650	650	650	650	650	
	高Height(mm)	880	880	885	926	1025	1025	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

机组型号 Model		CVEBS13H	CVEBS15H	CVEBS20H	CVEBS22H	CVEBS25H	CVEBS30H	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		5°C ~ 15°C						
压缩机 Comp.	型 号 Model	ZB95KQE	ZB114KQE	ZB130KQE	ZB150KQE	ZB190KQE	ZB220KQE	
	最大电流 Max.I(A)	31.0	38.0	33.1	38.3	49.1	60.3	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R22	10°C	45.9/8.5	55.4/10.2	61.1/10.9	71.7/13.5	90.1/16.9	109.0/20.7
		5°C	39.2/8.4	47.2/10.0	52.3/10.7	60.9/13.3	76.3/16.4	93.5/20.1
		0°C	33.1/8.3	39.8/9.8	44.1/10.5	51.5/13.1	64.0/16.0	79.6/19.7
	R404A R507A	10°C	48.5/9.8	58.5/11.7	62.6/12.1	75.8/16.0	94.9/20.1	117.0/24.3
		5°C	41.8/9.8	50.4/11.6	54.0/12.1	65.4/15.4	81.8/19.4	101.0/23.3
		0°C	34.9/9.7	42.0/11.5	45.0/12.0	54.5/15.0	68.2/18.9	84.3/22.7
冷凝器 Condenser	额度水流量 Water Flow(m³/h)	8.9	10.7	11.4	13.9	17.4	21.4	
	进出水管接口 Water Connect(inch)	Rc2	Rc2	Rc2-1/2	Rc2-1/2	Rc2-1/2	Rc2-1/2	
吸气接口 Suction Line(mm)		φ 35	φ 35	φ 42	φ 42	φ 42	φ 42	
供液接口 Liquid Line(mm)		φ 16	φ 19	φ 22	φ 22	φ 22	φ 22	
重量 Weight kg		195	196	247	307	328	353	
尺寸 Size	长Length(mm)	1400	1400	1650	1650	1650	1650	
	宽Width(mm)	780	780	825	825	825	825	
	高Height(mm)	1110	1110	1260	1310	1310	1310	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

机组型号 Model		CVEBS13M	CVEBS15M	CVEBS20M	CVEBS22M	CVEBS25M	CVEBS30M
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C ~ 5°C					

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MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温型机组 (带EVI喷气增焓) LOW TEMPERATURE UNIT WITH EVI (ENHANCED VAPOR INJECTION)

机组型号 Model		CVEBS06L	CVEBS08L	CVEBS10L	CVEBS13L	CVEBS15L
电 源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		-15°C ~ -35°C				
压缩机 Comp.	型 号 Model	ZFI26KQE	ZFI36KQE	ZFI39KQE	ZFI50KQE	ZFI59KQE
	最大电流 Max.I(A)	13.0	16.6	20.3	25.0	27.0
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	-15°C				
		-20°C	10.2/4.6	12.9/5.7	14.7/6.9	17.5/7.6
		-25°C	8.6/4.5	10.9/5.4	12.5/6.6	14.6/7.2
		-30°C	7.2/4.3	9.1/5.1	10.4/6.2	12.1/6.9
		-35°C	6.0/4.1	7.5/4.8	8.6/5.8	10.1/6.5
		-40°C	5.0/4.0	6.2/4.5	7.1/5.5	8.5/6.3
						10.3/7.7
冷凝器 Condenser	额度水流量 Water Flow(m³/h)	3.8	4.7	5.5	6.2	7.6
	进出水管接口 Water Connect(inch)	Rc1	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc2
吸气接口 Suction Line(mm)		φ22	φ22	φ22	φ35	φ35
供液接口 Liquid Line(mm)		φ12.7	φ12.7	φ12.7	φ16	φ16
重量 Weight kg		95	127	139	167	192
尺寸 Size	长Length(mm)	1140	1140	1390	1390	1400
	宽Width(mm)	650	650	650	650	780
	高Height(mm)	885	885	900	1025	1080

备注: 参数标定为冷却水进水温度 30°C, 冷凝温度 40°C, 过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

UNIT CONFIGURATION 机组配置

→ 高温型及中温型机组 HIGH TEMPERATURE AND MEDIUM TEMPERATURE UNITS

机组配件 Unit Accessories	CVEBS										
	05H 05M	06H 06M	07H 07M	08H 08M	10H 10M	13H 13M	15H 15M	20H 20M	22H 22M	25H 25M	30H 30M
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●	●
压缩机吸气阀 Compressor Valve	/	/	/	○	○	○	○	○	○	○	○
油 加 热 带 Oil Heater	○	○	○	○	○	○	○	○	○	○	○
排 气 减 震 管 Discharge Vibration Damper	○	○	○	○	○	○	○	○	●	●	●
油 分 离 器 Oil Separator	○	○	○	○	○	○	○	○	●	●	●
水 冷 冷 凝 器 Water Condenser	●	●	●	●	●	●	●	●	●	●	●
干 燥 过 滤 器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●
供 液 电 磁 阀 Drier Filter	●	●	●	●	●	●	●	●	●	●	●
高 / 低 压 保 护 HP/LP Switch	●	●	●	●	●	●	●	●	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●
气 液 分 离 器 Accumulator	○	○	○	○	○	○	○	○	○	○	○
吸 气 减 震 管 Suction Accumulator	○	○	○	○	○	○	○	○	○	○	○
低 压 控 制 (负压停机) Low Pressure Control	○	○	○	○	○	○	○	○	○	○	○

说明: ● 出厂标配; ○ 选配件。Description: ● Factory standard configuration; ○ Select accessories.

→ 低温型机组 (带EVI喷气增焓) LOW TEMPERATURE UNIT WITH EVI (ENHANCED VAPOR INJECTION)

机组配件 Unit Accessories	CVEBS									
	06L	08L	10L	12L	15L	18L	20L	25L	30L	40L
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●
压缩机吸气阀 Compressor Valve	●	●	●	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	●	●	●	●	●	●	●	●	●	●
排 气 减 震 管 Discharge Vibration Damper	○	○	○	○	●	●	●	●	●	●
油 分 离 器 Oil Separator	●	●	●	●	●	●	●	●	●	●
水 冷 冷 凝 器 Water Condenser	●	●	●	●	●	●	●	●	●	●
干 燥 过 滤 器 Liquid Filter	●	●	●	●	●	●	●	●	●	●
供 液 电 磁 阀 Drier Filter	●	●	●	●	●	●	●	●	●	●
高 / 低 压 保 护 HP/LP Switch	●	●	●	●	●	●	●	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●
气 液 分 离 器 Accumulator	●	●	●	●	●	●	●	●	●	●
吸 气 减 震 管 Suction Accumulator	○	○	○	○	○	○	○	○	○	○
低 压 控 制 (负压停机) Low Pressure Control	○	○	○	○	○	○	○	○	○	○

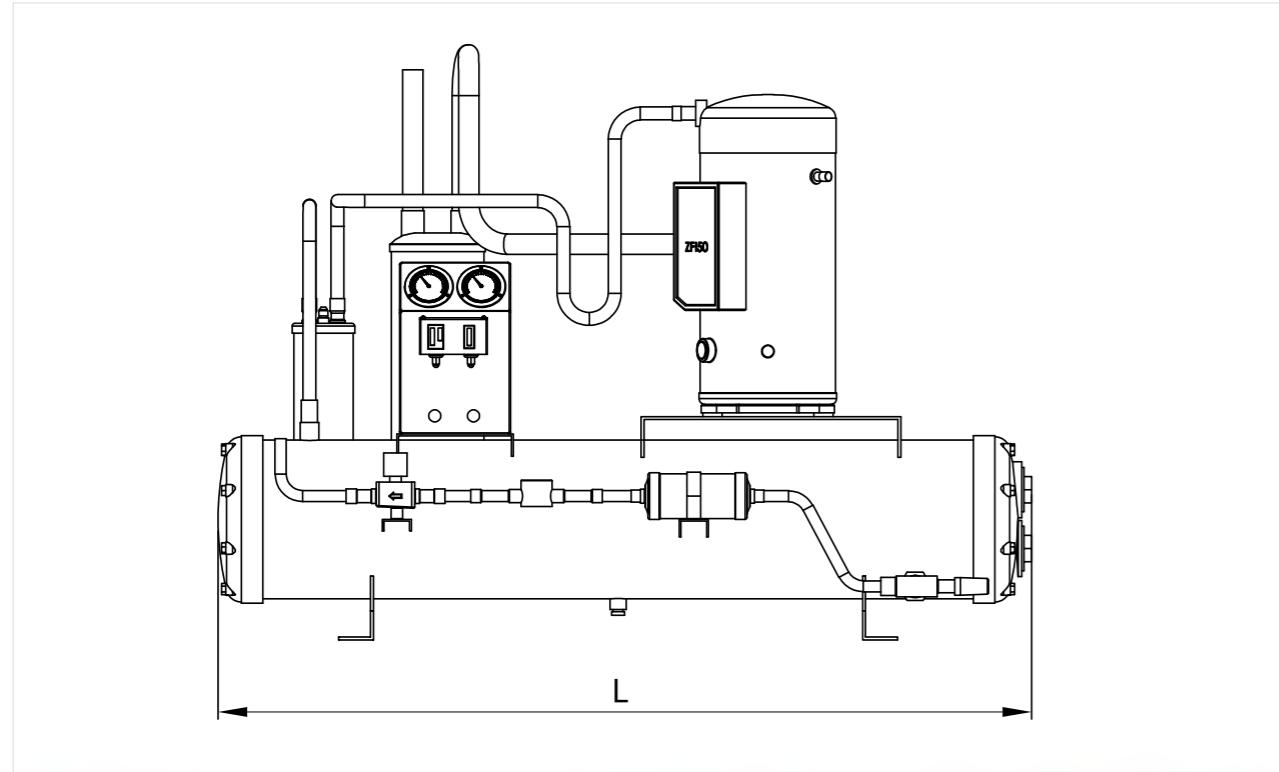
说明: ● 出厂标配; ○ 选配件。Description: ● Factory standard configuration; ○ Select accessories.

备注: 参数标定为冷却水进水温度 30°C, 冷凝温度 40°C, 过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

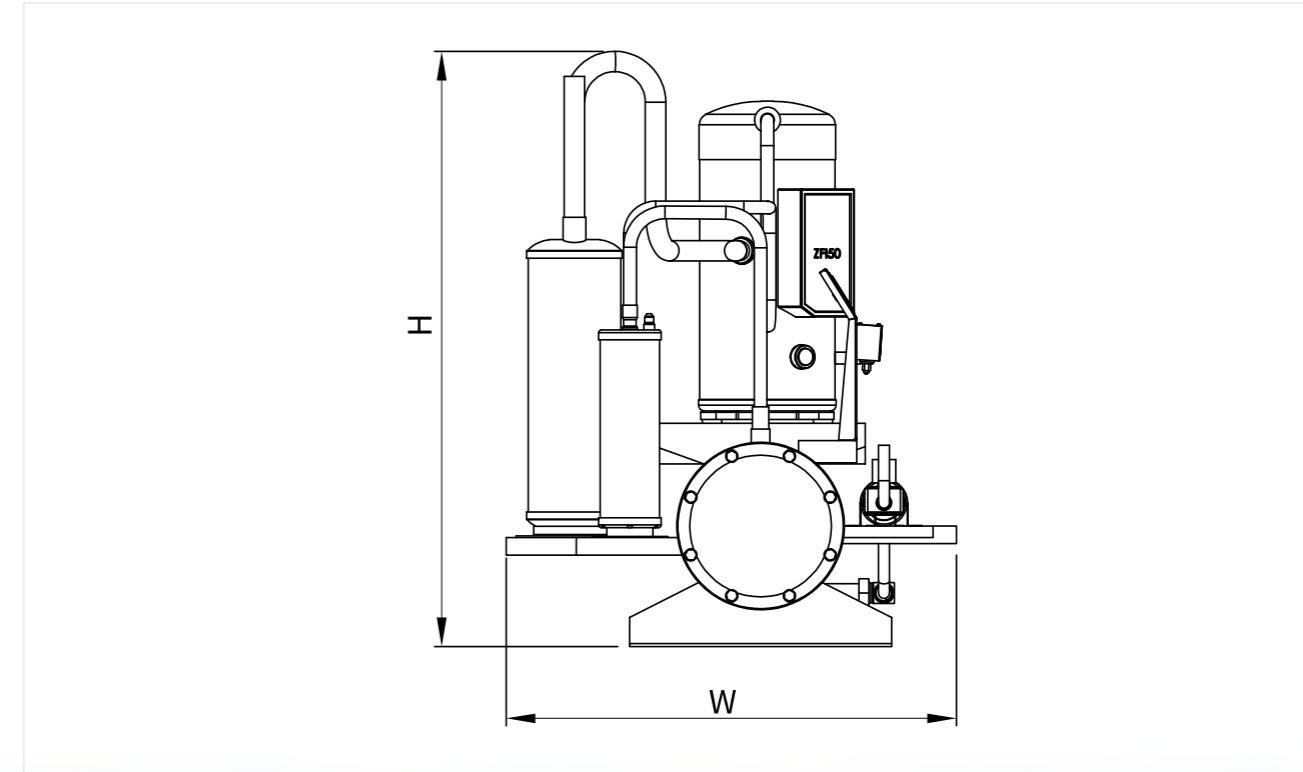
OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT

机组外形及安装尺寸图



OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT

机组外形及安装尺寸图



CP 半封闭活塞压缩机风冷冷凝机组

CP Semi Closed Piston Compressor Air-Cooled Condensing Unit



快速制冷
Fast Refrigeration



高效散热
Efficient Cooling



节约能量
Save Energy



安全运行
Safe Operation

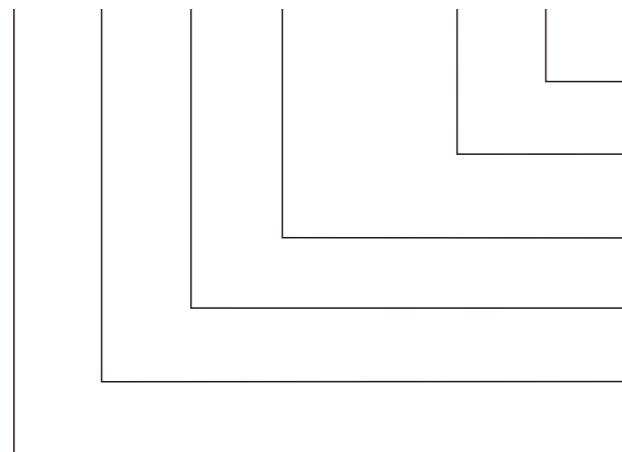
产品概述 PRODUCT OVERVIEW

- ◆ CP系列敞开式风冷冷凝机组主要针对冷库应用而开发的；
- ◆ 主机采用比泽尔半封闭活塞式制冷压缩机，质量好、可靠性高；
- ◆ 机组设计分高温、中温及低温应用：
 - 高温机组可满足8~15℃的冷库使用；
 - 中温机组可满足-5~5℃的冷库使用；
 - 低温机组可满足-15~-35℃的冷库使用；
- ◆ 风冷冷凝器与压缩机及各种配件安装在一个机架上，结构紧凑、操作检修方便；
- ◆ 采用外转子风机，噪音小、效率高；
- ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。

- ◆ The CP series open air-cooled condensing unit is mainly developed for cold storage applications;
- ◆ The host adopts a Bitzer semi closed piston refrigeration compressor, which has good quality and high reliability;
- ◆ Unit design is divided into high temperature, medium temperature, and low temperature applications:
 - High temperature units can meet the needs of cold storage at 8~15 °C;
 - The medium temperature unit can meet the cold storage needs of -5~5 °C;
 - The low-temperature unit can meet the cold storage needs of -15 ~ -35 °C;
- ◆ The air-cooled condenser, compressor, and various accessories are installed on the same rack, with a compact structure and easy operation and maintenance;
- ◆ Adopting an external rotor fan, with low noise and high efficiency;
- ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc.

型号说明 MODEL DESCRIPTION

CP B B F - 20 M



适用温度代码: H: 高温, M: 中温, L: 低温
Applicable temperature code: H: High temperature,
M: Medium temperature, L: low temperature

压缩机额定功率 (HP)
Rated power of compressor (HP)

冷却形式: F: 风冷式, S: 水冷式
Cooling form: F: Air-cooled type, S: Water cooled type

制冷剂代码: A: R22, B: R404A/R507A
Refrigerant code: A: R22, B: R404A/R507A

压缩机品牌代码: B: 比泽尔, R: 莱富康
Compressor brand code: B: Bitzer, R: RefComp

产品系列
Product series



MAIN TECHNICAL PARAMETERS 主要技术参数



→ 高温型机组 HIGH TEMPERATURE UNIT

机组型号 Model			CPBBF02H	CPBBF03H	CPBBF04H	CPBBF05H	CPBBF06H	CPBBF07H	CPBBF09H	CPBBF10H		
电 源 Power Supply			3P/380V/50Hz									
适用温度 Apply Temp.			5°C ~ 15°C									
压缩机 Comp.	型 号 Model	2GES-2Y	2DES-3Y	2CES-4Y	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y	4VES-10Y			
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	5.0	8.6	10.0	10.8	13.6	16.5	20.2	19.9			
		10°C	7.4/2.1	13.3/3.4	16.8/4.3	18.2/4.5	23.1/5.8	26.7/6.6	33.6/8.5	37.2/8.7		
		5°C	6.3/2.0	11.3/3.2	14.3/4.1	15.5/4.3	19.6/5.5	22.7/6.3	28.8/8.0	31.5/8.2		
	R404A R507A	0°C	5.3/1.9	9.5/3.1	12.0/3.9	12.9/4.1	16.4/5.2	19.0/6.0	24.0/7.6	26.1/7.7		
		7.5°C	6.6/2.3	12.2/3.8	15.4/4.8	17.0/5.1	21.4/6.5	25.1/7.5	32.5/9.5	33.4/9.7		
		5°C	6.2/2.2	11.5/3.7	14.5/4.6	16.0/4.9	20.1/6.3	23.6/7.2	29.7/9.1	31.2/9.3		
		0°C	5.2/2.1	9.6/3.4	12.2/4.3	13.3/4.6	16.7/5.9	19.6/6.8	24.5/8.7	25.8/8.6		
风机 Fan	电压Voltage(V)		3P/380V/50Hz									
	电流Current (A)		0.5	0.9	0.9	0.9	1.2	1.2	1.8	1.8		
	功率Power(W)		216×1	216×2	216×2	216×2	290×2	290×2	216×4	216×4		
	转速Rev.(r/min)		1380	1380	1380	1380	1380	1380	1380	1380		
吸气接口Suction Line(mm)			φ 16	φ 22	φ 22	φ 22	φ 28	φ 28	φ 28	φ 28		
供液接口Liquid Line(mm)			φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16	φ 16		
重量 Weight		kg	106	155	164	183	206	216	249	296		
尺寸 Size	长Length(mm)		850	1050	1050	1050	1260	1260	1260	1260		
	宽Width(mm)		750	780	780	780	850	850	950	950		
	高Height(mm)		590	740	740	740	890	890	1340	1340		

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

→ 中温型机组 MEDIUM TEMPERATURE UNIT

机组型号 Model			CPBBF02M	CPBBF03M	CPBBF04M	CPBBF05M	CPBBF06M	CPBBF07M	CPBBF09M	CPBBF10M		
电 源 Power Supply			3P/380V/50Hz									
适用温度 Apply Temp.			-5°C ~ 5°C									
压缩机 Comp.	型 号 Model	2GES-2Y	2DES-3Y	2CES-4Y	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y	4VES-10Y			
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	5.0	8.6	10.0	10.8	13.6	16.5	20.2	19.9			
		10°C	4.3/1.8	7.7/2.9	9.8/3.6	10.5/3.8	13.3/4.9	15.5/5.6	19.6/7.2	21.2/7.2		
		-5°C	3.9/1.7	6.9/2.8	8.7/3.5	9.3/3.7	11.8/4.7	13.7/5.4	17.3/6.9	18.7/6.9		
	R404A R507A	-10°C	3.6/1.6	6.3/2.7	8.1/3.4	8.6/3.5	10.9/4.5	12.7/5.2	16.0/6.7	17.2/6.6		
		-5°C	4.2/2.0	7.9/3.2	9.9/4.1	10.7/4.4	13.5/5.5	15.8/6.4	19.8/8.1	20.6/8.0		
		-8°C	3.7/1.9	6.9/3.1	8.8/3.9	9.5/4.2	11.9/5.3	14.0/6.1	17.3/7.8	18.1/7.6		
		-10°C	3.4/1.8	6.4/2.9	8.2/3.7	8.8/4.1	11.0/5.1	12.9/5.9	16.0/7.5	16.6/7.3		
风机 Fan	电压Voltage(V)		3P/380V/50Hz									
	电流Current (A)		0.5	0.9	0.9	0.9	0.9	0.9	1.2	1.8		
	功率Power(W)		216×1	216×2	216×2	216×2	216×2	216×2	290×2	216×4		
	转速Rev.(r/min)		1380	1380	1380	1380	1380	1380	1380	1380		
吸气接口Suction Line(mm)			φ 16	φ 22	φ 22	φ 22	φ 28	φ 28	φ 28	φ 28		
供液接口Liquid Line(mm)			φ 9.52	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16	φ 16		
重量 Weight		kg	106	155	161	180	183	211	240	287		
尺寸 Size	长Length(mm)		850	1050	1050	1050	1050	1260	1260	1260		
	宽Width(mm)		750	780	780	780	780	850	950	950		
	高Height(mm)		590	740	740	740	740	890	1340	1340		

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

机组型号 Model			CPBBF12H	CPBBF15H	CPBBF20H	CPBBF25H	CPBBF30H	CPBBF35H	CPBBF40H	
电 源 Power Supply			3P/380V/50Hz							
适用温度 Apply Temp.			5°C ~ 15°C							
压缩机 Comp.	型 号 Model	4TES-12Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y		
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	25.1	28.2	33.2	44.0	51.2	62.1	73.9		
		10°C	44.7/10.6	51.6/12.1	60.6/14.2	80.2/18.9	92.8/21.7	110.7/26.3	138.2/32.7	
		5°C	37.9/10.1	43.6/11.5	51.2/13.5	68.0/18.0	78.7/20.7	94		

MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温机组 LOW TEMPERATURE UNIT

机组型号 Model		CPBBF02L	CPBBF03L	CPBBF04L	CPBBF05L	CPBBF06L	CPBBF09L	CPBBF12L	CPBBF14L	
电 源 Power Supply		3P/380V/50Hz								
适用温度 Apply Temp.		-15°C ~ -35°C								
压缩机 Comp.	型 号 Model	2DES-2Y	4FES-3Y	4EES-4Y	4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y	4NES-14Y	
	最大电流 Max.I(A)	7.5	9.5	12.2	14.5	17.7	19.9	22.7	26.6	
制冷量/功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	-25°C	3.1/2.0	4.1/2.5	5.2/3.2	6.1/3.8	7.9/4.9	9.9/6.0	11.5/6.7	13.4/7.9
		-30°C	2.3/1.7	3.1/2.1	3.9/2.7	4.6/3.2	6.1/4.2	7.5/5.2	8.7/5.8	10.1/6.8
		-35°C	1.7/1.4	2.2/1.8	2.9/2.2	3.4/2.7	4.5/3.6	5.5/4.4	6.3/4.9	7.4/5.7
	R404A R507A	-25°C	3.1/2.1	4.3/3.1	5.4/3.8	6.2/4.4	7.7/5.4	9.4/6.4	10.4/6.9	12.8/8.6
		-30°C	2.3/1.8	3.3/2.7	4.2/3.3	4.8/3.8	5.9/4.6	7.1/5.4	7.7/5.8	9.7/7.2
		-35°C	1.7/1.5	2.5/2.3	3.1/2.8	3.6/3.2	4.4/3.9	5.2/4.5	5.6/4.7	7.1/6.0
		3P/380V/50Hz								
风机 Fan	电压 Voltage(V)	3P/380V/50Hz								
	电流 Current (A)	0.5	0.9	1.2	2.2	1.1	1.2	1.2	1.8	
	功率 Power(W)	216×1	216×2	290×2	548×2	548×1	290×2	290×2	216×4	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	1380	1380	1380	
吸气接口 Suction Line(mm)		φ 22	φ 22	φ 28	φ 28	φ 35	φ 35	φ 35		
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16	φ 16		
重量 Weight kg		130	157	174	179	187	264	272	304	
尺寸 Size	长Length(mm)	850	1050	1050	1050	1050	1260	1260	1260	
	宽Width(mm)	750	780	780	780	780	920	920	950	
	高Height(mm)	590	740	740	740	740	890	890	1340	

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

机组型号 Model		CPBBF15L	CPBBF18L	CPBBF23L	CPBBF28L	CPBBF28L	CPBBF34L	CPBBF44L	
电 源 Power Supply		3P/380V/50Hz							
适用温度 Apply Temp.		-15°C ~ -35°C							
压缩机 Comp.	型 号 Model	4JE-15Y	4HE-18Y	4GE-23Y	4FE-28Y	6HE-28Y	6GE-34Y	6FE-44Y	
	最大电流 Max.I(A)	30.8	36.7	43.9	52.8	65.5	65.5	83.2	
制冷量/功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	-25°C	14.7/9.0	17.1/10.4	19.8/12.5	23.6/14.9	25.6/15.6	29.7/18.7	35.7/22.6
		-30°C	11.0/7.6	12.7/8.9	14.8/10.7	17.7/12.8	19.1/13.3	22.2/16.0	26.9/19.3
		-35°C	7.9/6.3	9.1/7.4	10.6/8.9	12.7/10.6	13.7/11.0	15.9/13.3	19.5/16.1
	R404A R507A	-25°C	15.3/10.1	18.2/12.0	21.5/14.3	25.7/17.1	26.8/17.7	32.4/21.8	38.5/26.2
		-30°C	11.7/8.6	14.1/10.3	16.7/12.3	20.0/14.7	20.6/15.2	25.3/18.9	29.9/22.7
		-35°C	8.7/7.3	10.5/8.7	12.6/10.4	15.1/12.5	15.5/12.8	19.4/16.1	22.7/19.3
		3P/380V/50Hz							
风机 Fan	电压 Voltage(V)	3P/380V/50Hz							
	电流 Current (A)	2.4	2.4	2.4	4.4	4.4	4.4	5.1	
	功率 Power(W)	290×4	290×4	290×4	548×4	548×4	548×4	670×4	
	转速 Rev.(r/min)	1380	1380	1380	1380	1380	1380	1380	
吸气接口 Suction Line(mm)		φ 42	φ 42	φ 54					
供液接口 Liquid Line(mm)		φ 22	φ 22	φ 22	φ 22	φ 22	φ 22	φ 28	
重量 Weight kg		375	374	396	451	481	493	534	
尺寸 Size	长Length(mm)	1260	1260	1260	1650	1650	1650	1650	
	宽Width(mm)	1100	1100	1180	1180	1180	1180	1180	
	高Height(mm)	1340	1340	1340	1630	1630	1630	1630	

备注：参数标定工况，环境温度32°C，过热度10K。 Note: Parameter calibration condition, ambient temperature 32 °C, superheat 10K.

→ 低温速冻型机组 LOW TEMPERATURE QUICK FREEZING UNIT

机组型号 Model		CPBBF05J	CPBBF08J	CPBBF12J	CPBBF16J	CPBBF20J	CPBBF25J	CPBBF30J	
电 源 Power Supply		3P/380V/50Hz							
适用温度 Apply Temp.		-30°C ~ -50°C							
压缩机 Comp.	型 号 Model	S4T-5.2Y	S4N-8.2Y	S4G-12.2Y	S6J-16.2Y	S6H-20.2Y	S6G-25.2Y	S6F-30.2Y	
	最大电流 Max.I(A)	14.0	17.0	24.0	31.0	37.0	45.0	53.0	
制冷量/功率(KW) Capacity/ Power(KW)	R404A R507A	-30°C	7.0/5.0	9.8/7.2	15.1/10.8	21.0/15.4	24.1/17.9	27.5/20.5	32.5/24.4
		-35°C	5.7/4.6	8.1/6.5	12.6/9.8	17.6/13.8	20.3/16.0	23.1/18.4	27.3/21.9
		-40°C	4.6/4.1	6.5/5.9	10.4/8.8	14.5/12.4	16.7/14.3	19.1/16.4	22.6/19.7
		-45°C	3.7/3.7	5.2/5.2	8.4/7.8	11.8/11.0	13.6/12.7	15.5/14.6	18.5/17.5
		-50°C	2.9/3.2	4.4/4.4	6.6/6.9	9.4/9.7	10.9/11.2	12.4/12.9	14.8/15.4
		-55°C							

UNIT CONFIGURATION

机组配置

→ 低温型机组 LOW TEMPERATURE UNIT

机组配件 Unit Accessories	CPBBF													
	02L	03L	04L	05L	06L	09L	12L	14L	15L	18L	23L	28L	34L	44L
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油加热带 Oil Heater	●	●	●	●	●	●	●	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●	●	●	●	●	●
A C 电机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
储液器 Liquid Reservoir	●	●	●	●	●	●	●	●	●	●	●	●	●	●
出口截止阀 Gas-Liquid Separator	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高压保护 HP Switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●
低压保护 LP Switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●
高 / 低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
吸气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control For Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.

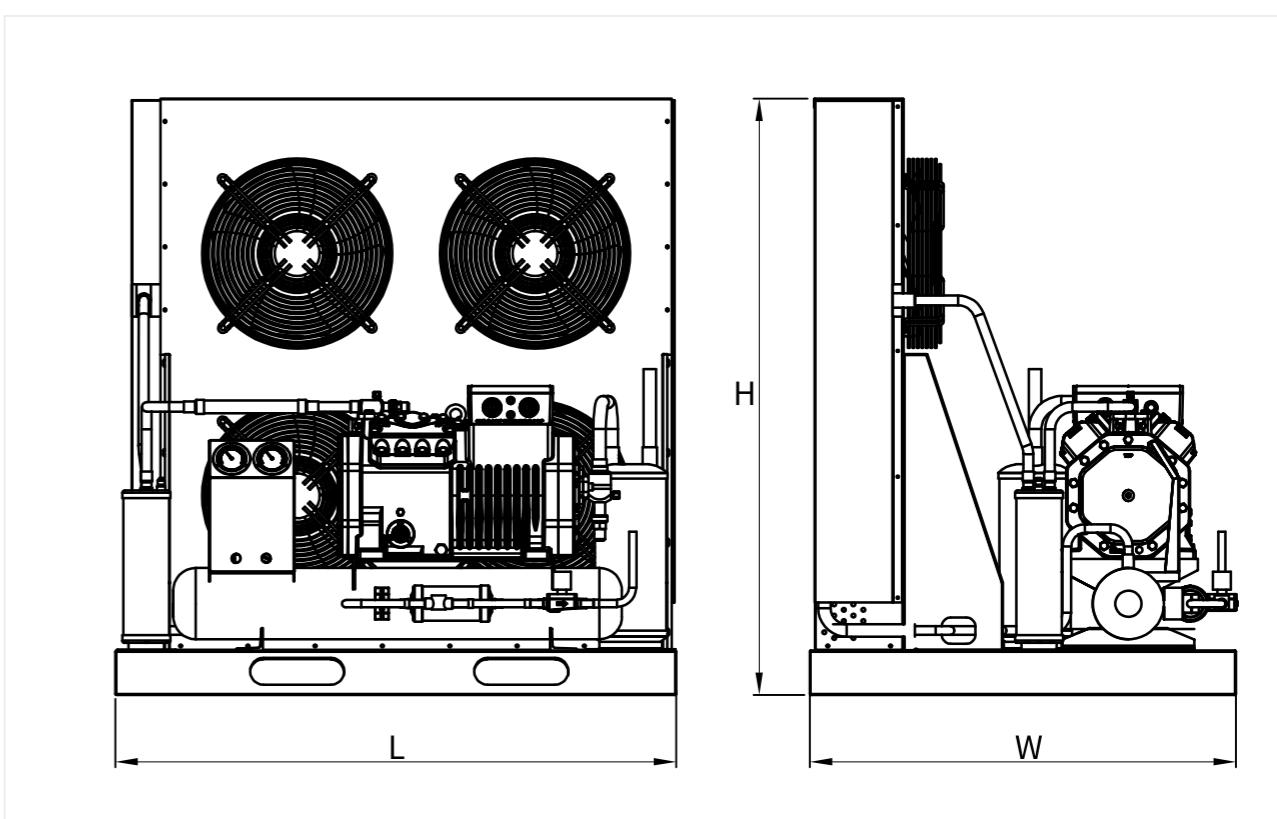
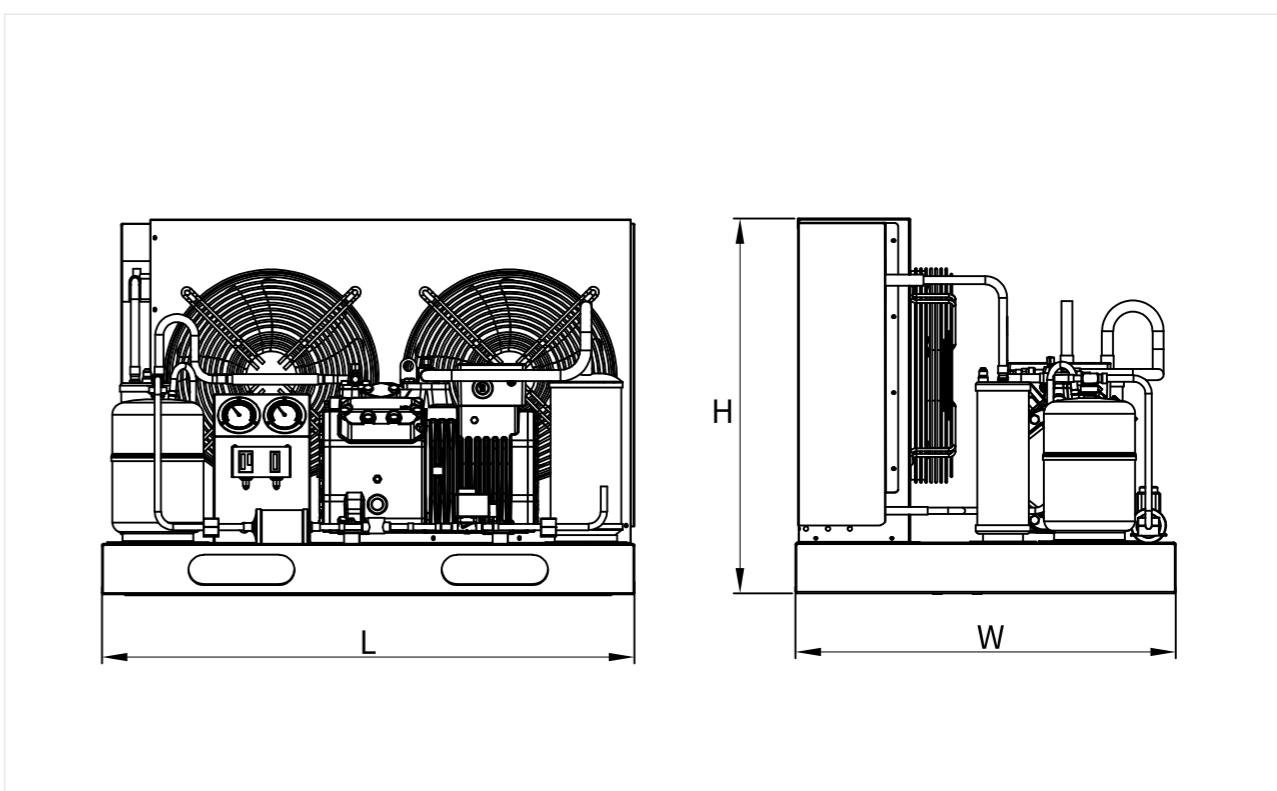
→ 低温速冻型机组 LOW TEMPERATURE QUICK FREEZING UNIT

机组配件 Unit Accessories	CPBBF						
	05J	08J	12J	16J	20J	25J	30J
压缩机 Compressor	●	●	●	●	●	●	●
油加热带 Oil Heater	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●
A C 电机 AC Motor	●	●	●	●	●	●	●
储液器 Liquid Reservoir	●	●	●	●	●	●	●
出口截止阀 Gas-Liquid Separator	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●
气液分离器 Accumulator	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●	●
高压保护 HP Switch	●	●	●	●	●	●	●
低压保护 LP Switch	●	●	●	●	●	●	●
高 / 低压表 HP/LP Gauge	●	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲
吸气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control For Unit	▲	▲	▲	▲	▲	▲	▲

说明: ● 出厂标配; ▲ 选配件。 Description: ● Factory standard configuration; ▲ Select accessories.

OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT

机组外形及安装尺寸图



CP 半封闭活塞压缩机水冷冷凝机组

CP Semi Closed Piston Compressor Water-Cooled Condensing Unit



-  结构紧凑
Compact
-  维修方便
Convenient Maintenance
-  安装便捷
Easy Installation
-  使用寿命长
Long Service Life

产品概述 PRODUCT OVERVIEW

- ◆ CP系列敞开式水冷冷凝机组主要针对冷库应用而开发的；
- ◆ 主机采用比泽尔半封闭活塞式制冷压缩机，质量好、可靠性高；
- ◆ 机组设计分高温、中温及低温应用：
 - 高温机组可满足8~15℃的冷库使用；
 - 中温机组可满足-5~5℃的冷库使用；
 - 低温机组可满足-15~-35℃的冷库使用；
- ◆ 采用高效壳管式冷凝器，冷却效果好、冷凝温度低、能效高；
- ◆ 壳管冷凝器与压缩机及各种配件安装在一个机架上，结构紧凑、操作检修方便；
- ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。
- ◆ The CP series open water-cooled condensing unit is mainly developed for cold storage applications;
- ◆ The host adopts a Bitzer semi closed piston refrigeration compressor, which has good quality and high reliability;
- ◆ Unit design is divided into high temperature, medium temperature, and low temperature applications:
 - High temperature units can meet the needs of cold storage at 8~15 °C;
 - The medium temperature unit can meet the cold storage needs of -5~5 °C;
 - The low-temperature unit can meet the cold storage needs of -15 ~ -35 °C;
- ◆ Adopting an efficient shell and tube condenser, it has good cooling effect, low condensation temperature, and high energy efficiency;
- ◆ The shell and tube condenser, compressor, and various accessories are installed on the same rack, with a compact structure and easy operation and maintenance;
- ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc.

型号说明 MODEL DESCRIPTION

CP B B S - 20 M

适用温度代码: H: 高温, M: 中温, L: 低温
Applicable temperature code: H: High temperature,
M: Medium temperature, L: low temperature

压缩机额定功率 (HP)
Rated power of compressor (HP)

冷却形式: F: 风冷式, S: 水冷式
Cooling form: F: Air-cooled type, S: Water cooled type

制冷剂代码: A: R22, B: R404A/R507A
Refrigerant code: A: R22, B: R404A/R507A

压缩机品牌代码: B: 比泽尔, R: 莱富康
Compressor brand code: B: Bitzer, R: RefComp

产品系列
Product series



MAIN TECHNICAL PARAMETERS 主要技术参数

高温型机组 HIGH TEMPERATURE UNIT

机组型号 Model		CPBBS05H	CPBBS06H	CPBBS07H	CPBBS09H	CPBBS10H	CPBBS12H	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		5°C ~ 15°C						
压缩机 Comp.	型 号 Model	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y	4VES-10Y	4TES-12Y	
	最大电流 Max.I(A)	10.8	13.6	16.5	20.2	19.9	25.1	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	10°C	20.0/4.0	25.2/5.1	29.1/5.8	36.7/7.3	40.3/7.7	48.4/9.3
		5°C	16.7/3.9	21.2/5.0	24.5/5.7	30.9/7.2	33.8/7.5	40.6/9.1
		0°C	14.1/3.8	17.8/4.8	20.6/5.5	26.0/7.1	28.3/7.2	34.1/8.8
	R404A R507A	7.5°C	19.8/4.6	25.0/5.8	29.0/6.7	36.3/8.5	38.8/8.7	46.6/10.6
		5°C	18.0/4.5	22.6/5.7	26.3/6.6	33.0/8.4	35.1/8.5	42.2/10.2
		0°C	15.1/4.3	19.0/5.5	22.2/6.4	27.7/8.1	29.3/8.1	35.3/9.9
冷凝器 Condenser	额度水流量 Water Flow(m³/h)	3.9	4.9	5.7	7.1	7.5	9.0	
	进出水管接口 Water Connect(inch)	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc2	
吸气接口 Suction Line(mm)		φ22	φ28	φ28	φ28	φ28	φ35	
供液接口 Liquid Line(mm)		φ12.7	φ12.7	φ16	φ16	φ16	φ16	
重量 Weight		kg	180	180	186	199	246	280
尺寸 Size	长Length(mm)	1140	1140	1140	1390	1390	1400	
	宽Width(mm)	650	650	650	650	650	780	
	高Height(mm)	830	830	860	860	890	950	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

中温型机组 MEDIUM TEMPERATURE UNIT

机组型号 Model		CPBBS05M	CPBBS06M	CPBBS07M	CPBBS09M	CPBBS10M	CPBBS12M	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-5°C ~ 5°C						
压缩机 Comp.	型 号 Model	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y	4VES-10Y	4TES-12Y	
	最大电流 Max.I(A)	10.8	13.6	16.5	20.2	19.9	25.1	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	-5°C	11.5/3.6	14.6/4.6	16.8/5.3	21.3/6.7	23.0/6.8	27.8/8.3
		-8°C	10.1/3.5	12.8/4.4	14.9/5.1	18.9/6.5	20.3/6.5	24.5/8.0
		-10°C	9.2/3.4	11.8/4.3	13.6/4.9	17.3/6.3	18.5/6.3	22.4/7.7
	R404A R507A	-5°C	12.3/4.1	15.4/5.2	18.0/6.1	22.4/7.7	23.6/7.6	28.5/9.3
		-8°C	10.8/4.0	13.5/5.1	15.8/5.9	19.7/7.4	20.6/7.3	24.9/8.9
		-10°C	9.9/3.9	12.4/4.9	14.5/5.7	18.0/7.1	18.7/7.0	22.7/8.6
冷凝器 Condenser	额度水流量 Water Flow(m³/h)	3.5	4.4	5.2	6.5	6.7	8.1	
	进出水管接口 Water Connect(inch)	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	
吸气接口 Suction Line(mm)		φ22	φ28	φ28	φ28	φ28	φ35	
供液接口 Liquid Line(mm)		φ12.7	φ12.7	φ16	φ16	φ16	φ16	
重量 Weight		kg	180	180	186	196	243	255
尺寸 Size	长Length(mm)	1140	1140	1140	1390	1390	1390	
	宽Width(mm)	650	650	650	650	650	650	
	高Height(mm)	830	830	860	860	890	895	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

机组型号 Model		CPBBS15H	CPBBS20H	CPBBS25H	CPBBS30H	CPBBS35H	CPBBS40H	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		5°C ~ 15°C						
压缩机 Comp.	型 号 Model	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	
	最大电流 Max.I(A)	28.2	33.2	44.0	51.2	62.1	73.9	
制冷量/ 功率(KW) Capacity/ Power(KW)	R22 蒸发 温度 Evap. Temp.	10°C	56.1/10.7	65.6/12.5	86.8/16.7	100.2/19.1	119.6/23.1	149.4/28.8
		5°C	46.9/10.5	55.0/12.2	72.9/16.3	84.3/18.7	100.6/22.6	125.6/28.2
		0°C	39.2/10.1	46.1/11.8	61.2/15.7	70.8/18.1	84.5/21.8	105.4/27.2
	R404A R507A	7.5°C	53.9/12.2	63.6/14.3	81.9/19.0	93.8/22.1	110.7/27.1	135.7/32.4
		5°C	48.7/12.0	57.6/14.1	74.4/18.6	85.3/21.6	100.9/26.6	123.5/31.8
		0°C	40.6/11.4	48.1/13.4	62.8/17.7	72.0/20.6	85.5/25.4	104.4/30.4
冷凝器 Condenser	额度水流量 Water Flow(m³/h)	10.4	12.3	16.0	18.4	21.9	26.7	
	进出水管接口 Water Connect(inch)	Rc2	Rc2-1/2	Rc2-1/2	Rc2-1/2	Rc2-1/2	Rc2-1/2	
吸气接口 Suction Line(mm)		φ42	φ42	φ54	φ54	φ54	φ54	
供液接口 Liquid Line(mm)		φ22	φ22	φ22	φ22	φ22	φ22	
重量 Weight		kg	296	316	379	390	398	435
尺寸 Size	长Length(mm)	1400	1650	1650	1650	1650	1650	
	宽Width(mm)	780	825	825	825	825	825	
	高Height(mm)	1030	1040	890	890	890	890	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

机组型号 Model		CPBBS15M	CPBBS20M	CPBBS25M	CPBBS30M	CPBBS35M	CPBBS40M
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C ~ 5°C					

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MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温机组 LOW TEMPERATURE UNIT

机组型号 Model		CPBBS05L	CPBBS06L	CPBBS09L	CPBBS12L	CPBBS14L	CPBBS15L			
电 源 Power Supply		3P/380V/50Hz								
适用温度 Apply Temp.		-15°C ~ -35°C								
压缩机 Comp.	型 号 Model	4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y	4NES-14Y	4JE-15Y			
	最大电流 Max.I(A)	14.5	17.7	19.9	22.7	26.6	30.8			
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp.	R22	-25°C	6.7/3.7	8.6/4.7	10.6/5.6	11.8/6.2	14.2/7.5	16.5/8.6	
			-30°C	5.0/3.2	6.5/4.1	8.1/5.1	9.4/5.7	10.9/6.7	11.8/7.5	
			-35°C	3.6/2.7	4.8/3.5	5.9/4.3	6.8/4.8	7.9/5.7	8.4/6.3	
	R404A R507A		-25°C	7.1/4.3	8.7/5.2	10.7/6.2	12.0/6.8	14.6/8.5	17.4/9.8	
			-30°C	5.3/3.7	6.6/4.5	8.0/5.3	8.8/5.8	10.9/7.2	13.1/8.7	
			-35°C	3.9/3.2	4.8/3.9	5.8/4.4	6.2/4.7	7.8/6.1	9.5/7.3	
冷凝器 Condenser	额度水流量 Water Flow(m³/h)	3.3	4.0	4.8	5.4	6.6	7.8			
	进出水管接口 Water Connect(inch)	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc2			
吸气接口Suction Line(mm)		φ28	φ28	φ35	φ35	φ35	φ42			
供液接口Liquid Line(mm)		φ12.7	φ12.7	φ16	φ16	φ16	φ22			
重量 Weight	kg	179	184	237	250	254	329			
尺寸 Size	长Length(mm)	1140	1140	1140	1390	1390	1400			
	宽Width(mm)	650	650	650	650	650	780			
	高Height(mm)	830	830	890	890	890	1100			

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

→ 低温速冻机组 LOW TEMPERATURE QUICK FREEZING UNIT

机组型号 Model		CPBBS05J	CPBBS08J	CPBBS12J	CPBBS16J	CPBBS20J	CPBBS25J	CPBBS30J	
电 源 Power Supply	3P/380V/50Hz								
适用温度 Apply Temp.	-30°C ~ -50°C								
压缩机 Comp.	型 号 Model	S4T-5.2Y	S4N-8.2Y	S4G-12.2Y	S6J-16.2Y	S6H-20.2Y	S6G-25.2Y	S6F-30.2Y	
	最大电流 Max.I(A)	14.0	17.0	24.0	31.0	37.0	45.0	53.0	
制冷量/ 功率(KW) Capacity/ Power(KW)	R404A R507A	-30°C	7.1/4.7	10.1/6.8	15.6/10.2	21.5/14.6	24.9/16.9	28.3/19.4	33.6/23.1
		-35°C	5.8/4.4	8.2/6.2	12.9/9.4	18.0/13.2	20.8/15.3	23.7/17.6	28.1/21.0
		-40°C	4.7/4.0	6.6/5.7	10.6/8.5	14.8/11.9	17.1/13.8	19.5/15.9	23.1/19.0
		-45°C	3.7/3.6	5.3/5.1	8.5/7.6	12.0/10.6	13.9/12.3	15.8/14.2	18.8/17.0
		-50°C	2.9/3.1	4.1/4.5	6.7/6.7	9.5/9.4	11.0/10.9	12.6/12.6	15.0/15.0
		-55°C	2.2/2.7	3.2/3.9	5.2/5.9	7.4/8.3	8.6/9.6	9.8/11.0	11.7/13.1
风机 Fan	电 压 Voltage(V)	3.4	4.8	7.4	10.3	12.0	13.7	16.3	
	转速 Rev.(r/min)	Rc1-1/2	Rc1-1/2	Rc1-1/2	Rc2	Rc2-1/2	Rc2-1/2	Rc2-1/2	
吸气接口Suction Line(mm)		φ28	φ28	φ35	φ42	φ42	φ42	φ42	
供液接口Liquid Line(mm)		φ12.7	φ12.7	φ16	φ16	φ22	φ22	φ22	
重 量 Weight	kg	247	253	320	405	423	436	444	
尺寸 Size	长Length(mm)	1140	1140	1390	1400	1650	1650	1650	
	宽Width(mm)	780	780	780	860	860	860	860	
	高Height(mm)	950	950	1050	1100	1110	1110	1110	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

UNIT CONFIGURATION 机组配置

→ 高温型及中温型机组 HIGH TEMPERATURE AND MEDIUM TEMPERATURE UNITS

机组配件 Unit Accessories	CPBBS											
	05H 05M	06H 06M	07H 07M	09H 09M	10H 10M	12H 12M	15H 15M	20H 20M	25H 25M	30H 30M	35H 35M	40H 40M
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	●	●	●	●	●	●	●	●	●	●	●	●
排 气 减 震 管 Discharge Vibration Damper	●	●	●	●	●	●	●	●	●	●	●	●
油 分 离 器 Oil Separator	●	●	●	●	●	●	●	●	●	●	●	●
水 冷 冷 凝 器 Water Condenser	●	●	●	●	●	●	●	●	●	●	●	●
干 燥 过 滤 器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●
供 液 电 磁 阀 Drier Filter	●	●	●	●	●	●	●	●	●	●	●	●
高 / 低 壓 保 护 HP / LP Switch	●	●	●	●	●	●	●	●	●	●	●	●
高 / 低 壓 表 HP / LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●
气 液 分 离 器 Accumulator	○	○	○	○	○	○	○	○	○	○	○	○
吸 气 减 震 管 Suction Accumulator	○	○	○	○	○	○	○	○	○	○	○	○
电子油压(油位)保护 Suction Muffler Tube	○	○	○	○	○	○	○	●	●	●	●	●
低 壓 控(负压机) Low Pressure Control	○	○	○	○	○	○	○	○	○	○	○	○

说明：● 出厂标配；○ 选配件。Description: ● Factory standard configuration; ○ Select accessories.

UNIT CONFIGURATION

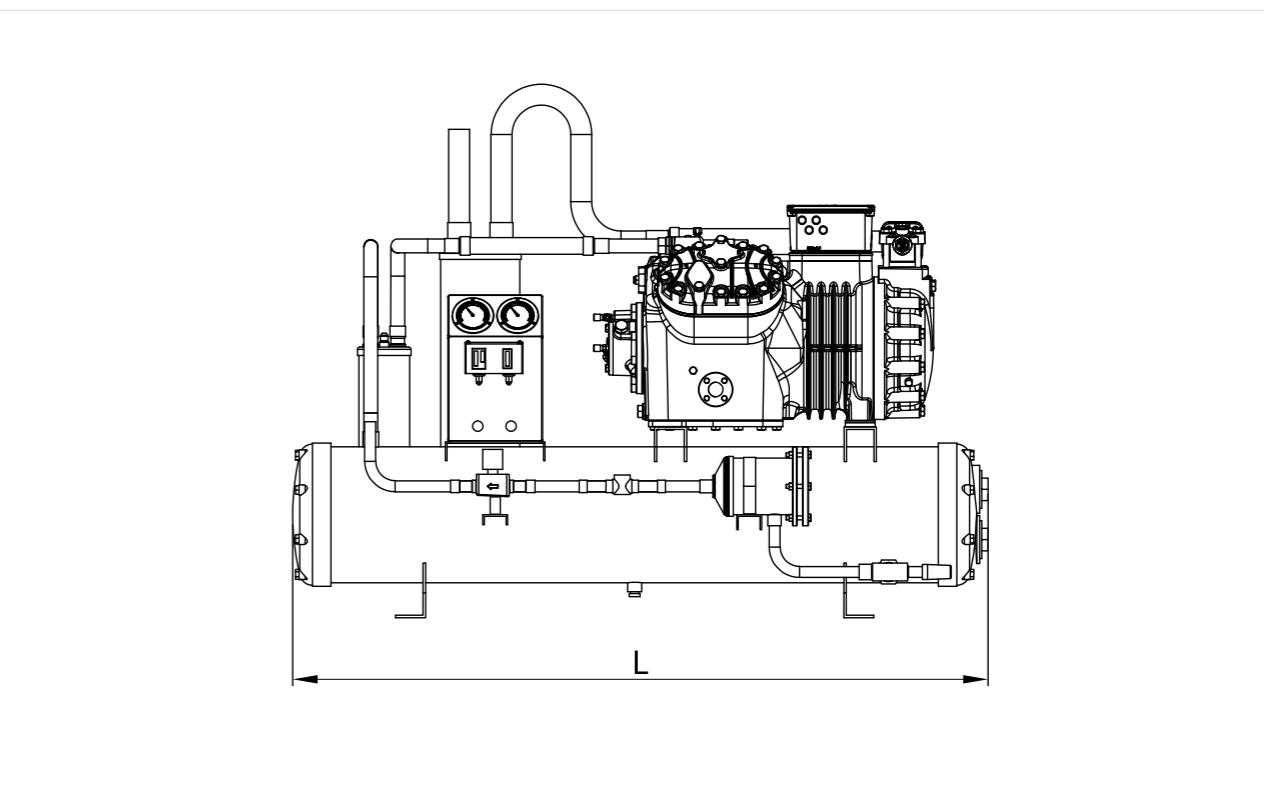
机组配置

→ 低温型机组 LOW TEMPERATURE UNIT

机组配件 Unit Accessories	CPBBS										
	05L	06L	09L	12L	14L	15L	18L	23L	28L	34L	44L
压 缩 机 Compressor	●	●	●	●	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	●	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●	●	●	●	●
油 分 离 器 Oil Separator	●	●	●	●	●	●	●	●	●	●	●
水冷冷凝器 Water Condenser	●	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●
供液电磁阀 Drier Filter	●	●	●	●	●	●	●	●	●	●	●
高/低压保护 HP /LP Switch	●	●	●	●	●	●	●	●	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	○	○	○	○	○	○	○	○	○	○	○
吸气减震管 Suction Accumulator	○	○	○	○	○	○	○	○	○	○	○
电子油压(油位)保护 Suction Muffler Tube	○	○	○	○	○	●	●	●	●	●	●
低压压控(负压停机) Low Pressure Control	○	○	○	○	○	○	○	○	○	○	○

说明: ● 出厂标配; ○ 选配件。Description: ● Factory standard configuration; ○ Select accessories.

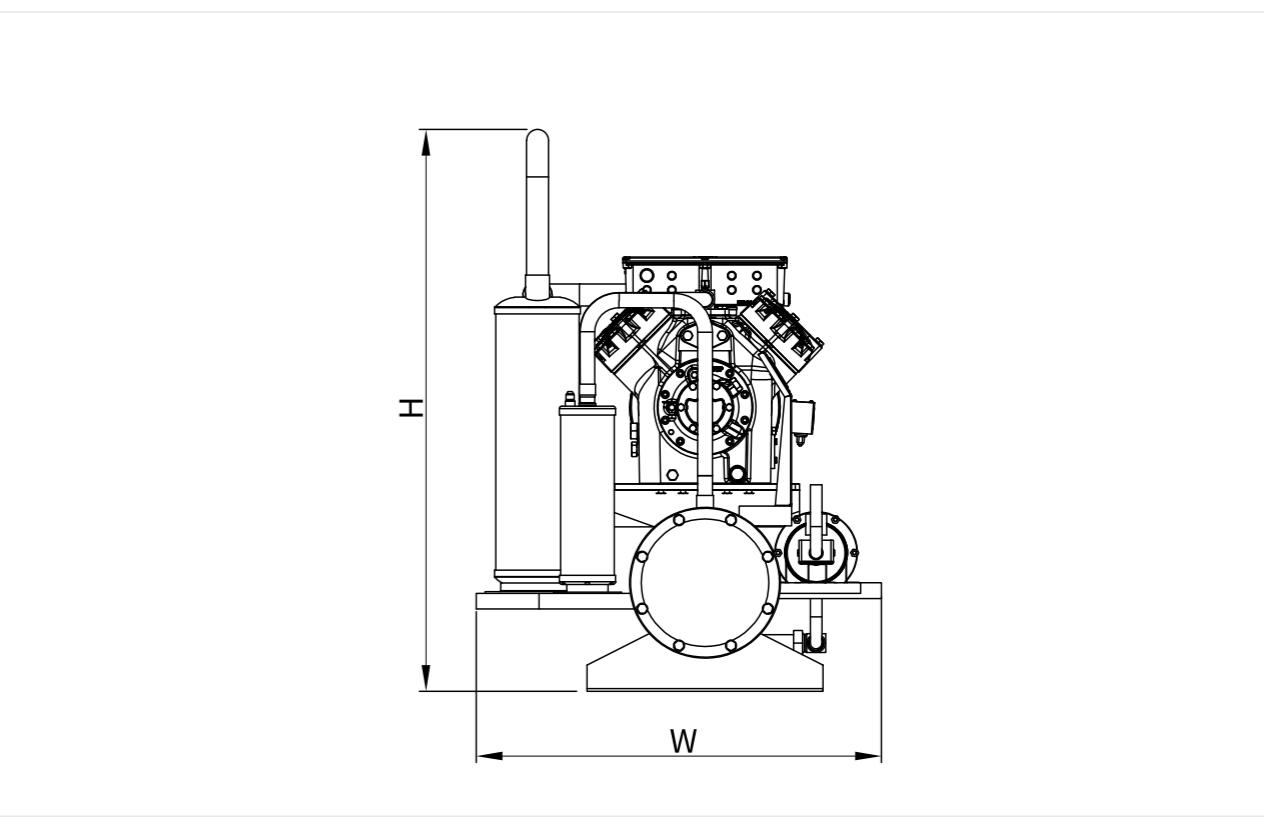
OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT 机组外形及安装尺寸图

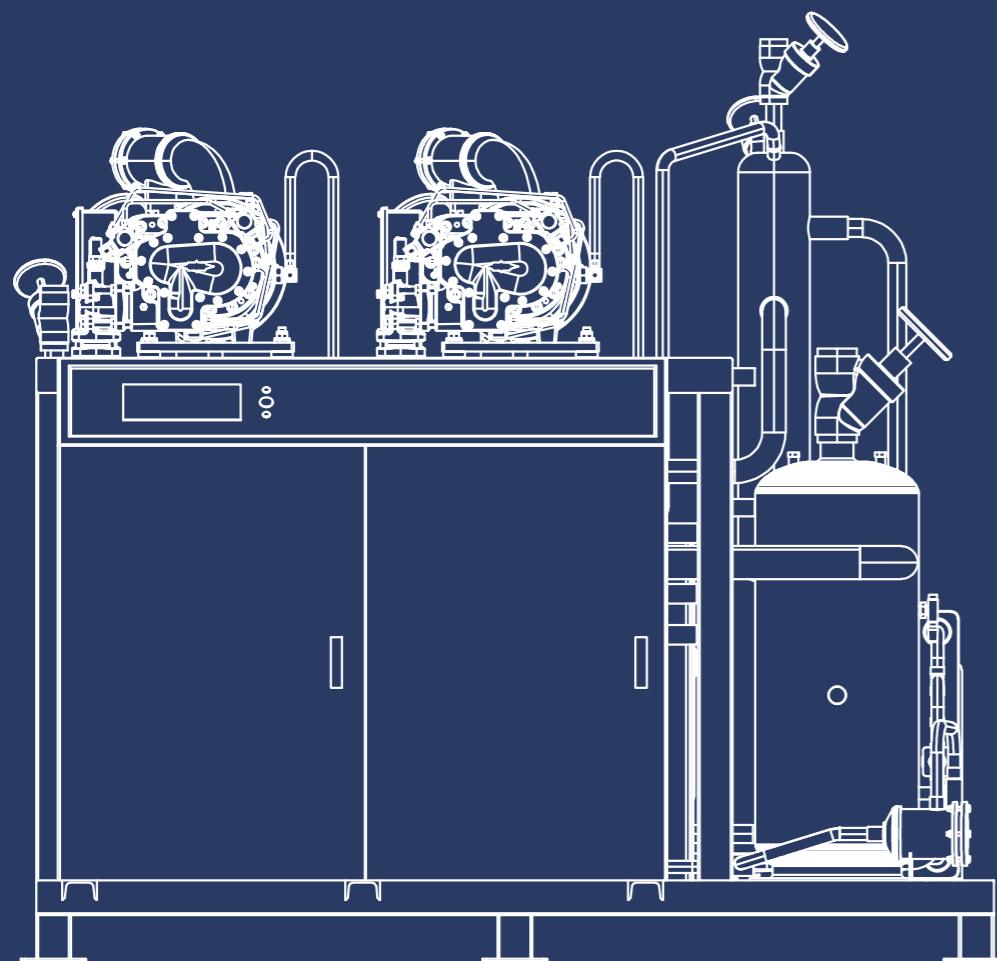


→ 低温速冻型机组 LOW TEMPERATURE QUICK FREEZING UNIT

机组配件 Unit Accessories	CPBBS						
	05J	08J	12J	16J	20J	25J	30J
压 缩 机 Compressor	●	●	●	●	●	●	●
油 加 热 带 Oil Heater	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●
油 分 离 器 Oil Separator	●	●	●	●	●	●	●
水冷冷凝器 Water Condenser	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●
供液电磁阀 Drier Filter	●	●	●	●	●	●	●
高/低压保护 HP /LP Switch	●	●	●	●	●	●	●
高 / 低 压 表 HP/LP Gauge	●	●	●	●	●	●	●
气液分离器 Accumulator	●	●	●	●	●	●	●
吸气减震管 Suction Accumulator	○	○	○	●	●	●	●
电子油压(油位)保护 Suction Muffler Tube	●	●	●	●	●	●	●
低压压控(负压停机) Low Pressure Control	○	○	○	○	○	○	○

说明: ● 出厂标配; ○ 选配件。Description: ● Factory standard configuration; ○ Select accessories.





03

PARALLEL CONDENSING UNIT 并联冷凝机组

DS 比泽尔半封闭螺杆蒸发冷冷凝机组

DS 比泽尔半封闭螺杆水冷冷凝机组



→ 型号说明 MODEL DESCRIPTION

DS B B Z - 100 L / 2

压缩机数量	Number of compressors
适用温度代码: M: 中温, L: 低温	Applicable temperature code: M: Medium temperature, L: low temperature
压缩机额定功率 (HP)	Rated power of compressor (HP)
冷却形式: F: 风冷式, S: 水冷式, Z: 蒸发冷	Cooling form: F: Air-cooled type, S: Water cooled, Z: Evaporative cooling
制冷剂代码: A: R22, B: R404A/R507A	Refrigerant code: A: R22, B: R404A/R507A
压缩机品牌: B: 比泽尔, R: 莱富康	Compressor brand: B: Bitzer, R: RefComp
产品系列	Product series

→ 产品概述 PRODUCT OVERVIEW

- ◆ DS系列半封闭螺杆机组，主要配套大制冷量需求的冷库项目使用；
 - ◆ 本机采用比泽尔品牌HSK/HSN系列半封闭螺杆压缩机；
 - ◆ 机组设计满足-5~+5℃的食品保鲜、-18℃以下的低温冷藏及-35℃以下的食品速冻使用，单机名义功率从40HP~180HP，具有单压缩机组和多压缩机并联机组；
 - ◆ 机组标准设计采用蒸发冷冷凝方式，冷凝温度低，能效比大，并配有大容积的储液器；
 - ◆ 机组采用西门子PLC控制，主要电器配件采用施耐德；采用彩色触摸屏显示模式；
 - ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。
-
- ◆ The DS series semi enclosed screw unit is mainly used for cold storage projects with high refrigeration demand;
 - ◆ This machine adopts the BITZER brand HSK/HSN series semi closed screw compressor;
 - ◆ The unit design meets the requirements of food preservation at -5~+5 °C, low-temperature refrigeration below -18 °C, and quick freezing of food below -35 °C. The nominal power of a single unit ranges from 40HP ~ 180HP, and it has a single compressor unit and a multi compressor parallel unit;
 - ◆ The standard design of the unit adopts evaporative cold condensation method, with low condensation temperature, high energy efficiency ratio, and equipped with a large capacity liquid storage tank;
 - ◆ The unit is controlled by Siemens PLC, and the main electrical components are Schneider; Adopting a color touch screen display mode;
 - ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc.



MAIN TECHNICAL PARAMETERS 主要技术参数

→ 中温型蒸发冷螺杆机组 MEDIUM TEMPERATURE EVAPORATIVE COOLING SCREW UNIT

○ 制冷剂 R404A/R507A Refrigerant R404A/R507A



HSK系列 HSK SERIES							
机组型号 Model		DSBBZ50M/1	DSBBZ60M/1	DSBBZ70M/1	DSBBZ80M/1	DSBBZ90M/1	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C~5°C					
压缩机 Comp.	型 号 Model	HSK6451-50	HSK6461-60	HSK7451-70	HSK7461-80	HSK7471-90	
	数 量 Quantity	1	1	1	1	1	
	最大电流 Max.I(A)	79	98	124	144	162	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	0°C	133/32.2	159/41.5	195/45.7	221/52.9	241/60.9
		-5°C	110/31.8	132/40.4	162/46.2	183/52.3	200/59.3
		-10°C	90.2/31.4	108/39.4	132/46.5	150/51.8	164/57.7
		-15°C	73.2/31.1	88.0/38.5	107/46.8	122/51.2	133/56.3
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	141.8	172.4	208.2	235.3	259.3	
储液器 Receiver	L	80	80	80	100	100	
供液接口Liquid Line(mm)		φ 28	φ 28	φ 28	φ 28	φ 35	
吸气接口Suction Line(mm)		DN50	DN50	DN80	DN80	DN80	
尺寸 Size	长Length(mm)	1900	1900	2050	2050	2050	
	宽Width(mm)	1100	1100	1100	1100	1100	
	高Height(mm)	1630	1630	1630	1630	1630	

备注：参数标定为冷凝温度36℃，过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 °C and a superheat degree of 10K.

HSK系列 HSK SERIES							
机组型号 Model		DSBBZ100M/2	DSBBZ120M/2	DSBBZ140M/2	DSBBZ160M/2	DSBBZ180M/2	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C~5°C					
压缩机 Comp.	型 号 Model	HSK6451-50	HSK6461-60	HSK7451-70	HSK7461-80	HSK7471-90	
	数 量 Quantity	2	2	2	2	2	
	最大电流 Max.I(A)	2X79	2X98	2X124	2X144	2X162	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	0°C	266/64.4	319/83.0	390/91.4	442/106	482/122
		-5°C	220/63.6	264/80.8	323/92.4	366/105	400/119
		-10°C	180/62.8	217/78.8	263/93.0	300/104	328/115
		-15°C	146/62.2	176/77.0	213/93.6	244/102	267/113
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	283.6	344.8	415.4	471.0	519.0	
储液器 Receiver	L	150	150	200	200	250	
供液接口Liquid Line(mm)		φ 35	φ 35	φ 42	φ 42	φ 42	
吸气接口Suction Line(mm)		DN100	DN100	DN125	DN125	DN125	
尺寸 Size	长Length(mm)	2250	2250	2250	2250	2250	
	宽Width(mm)	1800	1800	1800	1800	1800	
	高Height(mm)	2050	2050	2050	2050	2050	

备注：参数标定为冷凝温度36℃，过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 °C and a superheat degree of 10K.

机组型号 Model		DSBBZ110M/1	DSBBZ125M/1	DSBBZ140M/1	DSBBZ160M/1	DSBBZ180M/1	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C~5°C					
压缩机 Comp.	型 号 Model	HSK8551-110	HSK8561-125	HSK8571-140	HSK8581-160	HSK8591-180	
	数 量 Quantity	1	1	1	1	1	
	最大电流 Max.I(A)	180	216	246	277	330	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	0°C	302/73.1	343/84.0	390/95.4	447/109	510/123
		-5°C	249/71.6	284/82.1	324/92.9	372/106	423/119
		-10°C	204/70.3	232/80.4	266/90.7	307/102	348/116
		-15°C	165/69.1	189/78.9	217/88.7	251/99.1	284/113
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	322.1	366.1	416.9	478.0	542.0	
储液器 Receiver	L	150	150	200	200	250	
供液接口Liquid Line(mm)		φ 35	φ 35	φ 35	φ 42	φ 42	
吸气接口Suction Line(mm)		DN100	DN100	DN100	DN100	DN100	
尺寸 Size	长Length(mm)	2350	2350	2350	2350	2350	
	宽Width(mm)	1250	1250	1250	1250	1250	
	高Height(mm)	1780	1780	1850	1850	1850	

备注：参数标定为冷凝温度36℃，过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 °C and a superheat degree of 10K.

机组型号 Model		DSBBZ220M/2	DSBBZ250M/2	DSBBZ280M/2	DSBBZ320M/2	DSBBZ360M/2	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C~5°C					
压缩机 Comp.	型 号 Model	HSK8551-110	HSK8561-125	HSK8571-140	HSK8581-160	HSK8591-180	
	数 量 Quantity	2	2	2	2	2	
	最大电流 Max.I(A)	2×180	2×216	2×246	2×277	2×330	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	0°C	604/146	686/168	780/191	894/218	1020/245
		-5°C	498/143	568/164	648/186	744/211	846/239
		-10°C	408/141	464/161	532/181	614/204	696/232
		-15°C	330/138	378/158	434/177	502/198	568/226
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	641.0	732.0	834.0	955.0	1085.0	
储液器 Receiver	L	300	300	400	400	500	
供液接口Liquid Line(mm)		DN50	DN50	DN50	DN50	DN50	

MAIN TECHNICAL PARAMETERS 主要技术参数

→ 中温型蒸发冷螺杆机组 MEDIUM TEMPERATURE EVAPORATIVE COOLING SCREW UNIT

○ 制冷剂 R404A/R507A Refrigerant R404A/R507A



HSK系列 HSK SERIES							
机组型号 Model		DSBBZ150M/3	DSBBZ180M/3	DSBBZ210M/3	DSBBZ240M/3	DSBBZ270M/3	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK6451-50	HSK6461-60	HSK7451-70	HSK7461-80	HSK7471-90	
	数 量 Quantity	3	3	3	3	3	
	最大电流 Max.I(A)	3X79	3X98	3X124	3X144	3X162	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	0℃	399/96.6	478/125	585/137	663/159	723/183
		-5℃	330/95.4	396/121	485/139	549/157	600/178
		-10℃	271/94.2	325/118	395/140	450/155	492/173
		-15℃	220/93.3	264/116	320/140	366/154	400/169
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	425.4	517.0	624.0	706.0	778.0	
储液器 Receiver	L	200	250	250	300	400	
供液接口 Liquid Line(mm)		φ 42	φ 42	DN50	DN50	DN50	
吸气接口 Suction Line(mm)		2 × DN80	2 × DN80	2 × DN80	2 × DN80	2 × DN100	
尺寸 Size	长 Length(mm)	3000	3000	3000	3000	3000	
	宽 Width(mm)	1800	1800	1800	1800	1800	
	高 Height(mm)	2100	2100	2100	2100	2100	
备注：参数标定为冷凝温度36℃，过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 ℃ and a superheat degree of 10K.							

HSK系列 HSK SERIES							
机组型号 Model		DSBBZ200M/4	DSBBZ240M/4	DSBBZ280M/4	DSBBZ320M/4	DSBBZ360M/4	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK6451-50	HSK6461-60	HSK7451-70	HSK7461-80	HSK7471-90	
	数 量 Quantity	4	4	4	4	4	
	最大电流 Max.I(A)	4X79	4X98	4X124	4X144	4X162	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	0℃	532/129	638/166	780/183	884/212	964/244
		-5℃	440/127	528/162	647/185	732/209	800/237
		-10℃	361/126	433/158	526/186	600/207	656/231
		-15℃	293/124	352/154	427/187	488/205	533/225
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	567.0	690.0	832.0	941.0	1037.0	
储液器 Receiver	L	250	300	400	400	500	
供液接口 Liquid Line(mm)		φ 42	φ 42	DN50	DN50	DN50	
吸气接口 Suction Line(mm)		2 × DN80	2 × DN80	2 × DN100	2 × DN100	2 × DN100	
尺寸 Size	长 Length(mm)	3800	3800	3800	3800	3800	
	宽 Width(mm)	1800	1800	1800	1800	1800	
	高 Height(mm)	2150	2150	2150	2150	2150	
备注：参数标定为冷凝温度36℃，过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 ℃ and a superheat degree of 10K.							

机组型号 Model		DSBBZ330M/3	DSBBZ375M/3	DSBBZ420M/3	DSBBZ480M/3	DSBBZ540M/3	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK8551-110	HSK8561-125	HSK8571-140	HSK8581-160	HSK8591-180	
	数 量 Quantity	3	3	3	3	3	
	最大电流 Max.I(A)	3X180	3X216	3X246	3X277	3X330	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	0℃	906/219	1029/252	1170/286	1341/327	1530/368
		-5℃	747/215	852/246	972/279	1116/317	1269/358
		-10℃	612/211	696/241	798/272	921/306	1044/348
		-15℃	495/207	566/237	651/266	753/297	852/339
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	962.0	1098.0	1251.0	1433.0	1627.0	
储液器 Receiver	L	400	500	500	600	600	
供液接口 Liquid Line(mm)		DN50	DN50	DN65	DN65	DN65	
吸气接口 Suction Line(mm)		2 × DN100	2 × DN100	2 × DN125	2 × DN125	2 × DN125	
尺寸 Size	长 Length(mm)	3600	3600	3600	3600	3600	
	宽 Width(mm)	1980	1980	1980	1980	1980	
	高 Height(mm)	2280	2280	2280	2280	2280	
备注：参数标定为冷凝温度36℃，过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 ℃ and a superheat degree of 10K.							

机组型号 Model		DSBBZ440M/4	DSBBZ500M/4	DSBBZ560M/4	DSBBZ640M/4	DSBBZ720M/4	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK8551-110	HSK8561-125	HSK8571-140	HSK8581-160	HSK8591-180	
	数 量 Quantity	4	4	4	4	4	
	最大电流 Max.I(A)	4 × 180	4 × 216	4 × 246	4 × 277	4 × 330	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	0℃	1208/292	1372/336	1560/382	1788/436	2040/491
		-5℃	996/286	1136/328	1296/372	1488/422	1692/477
		-10℃	816/281	928/322	1064/363	1228/408	1392/464
		-15℃	660/276	755/316	868/355	1004/396	1136/452
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	1282.0	1464.0	1668.0	1910.0	2169.0	
储液器 Receiver	L	500	600	800	800	800	

MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温型蒸发冷螺杆机组 LOW TEMPERATURE EVAPORATIVE COOLING SCREW UNIT

○ 制冷剂R404A/R507A (带经济器) Refrigerant R404A/R507A (Equipped With An Economic Device)

HSN系列 HSN SERIES								
机组型号 Model		DSBBZ40L/1	DSBBZ50L/1	DSBBZ60L/1	DSBBZ70L/1	DSBBZ75L/1	DSBBZ110L/1	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15℃~ -40℃						
压缩机 Comp.	型 号 Model	HSN6451-40	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	
	数 量 Quantity	1	1	1	1	1	1	
	最大电流 Max.I(A)	65	79	98	124	144	197	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 R404A R507A Evap. Temp.	-25℃	62.1/32.6	71.4/39.3	87.4/46.8	98.8/50.8	104/56.2	153/82.8
		-30℃	51.2/31.4	59.1/37.6	71.6/45.7	81.3/49.0	86.0/53.7	125/79.9
		-35℃	41.5/30.3	48.2/35.9	57.8/44.7	66.1/47.3	70.2/51.3	101/76.9
		-40℃	33.1/29.1	38.7/34.2	45.9/43.5	52.8/45.5	56.5/48.9	80.5/74.3
		-45℃	25.7/27.8	30.5/32.4	35.5/41.9	41.2/43.7	44.6/46.5	62.8/72.5
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser						
	换热量 Heat Exchange KW	94.7	110.7	134.2	149.6	160.2	235.8	
储液器 Receiver	L	80	80	80	100	100	150	
供液接口 Liquid Line(mm)		φ28	φ28	φ28	φ28	φ28	φ35	
吸气接口 Suction Line(mm)		DN50	DN50	DN80	DN80	DN80	DN100	
尺寸 Size	长Length(mm)	1900	1900	2050	2050	2050	2350	
	宽Width(mm)	1100	1100	1100	1100	1100	1250	
	高Height(mm)	1630	1630	1630	1630	1630	1780	
备注: 参数标定为冷凝温度36℃, 过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 ℃ and a superheat degree of 10K.								

HSN系列 HSN SERIES							
机组型号 Model		DSBBZ150L/2	DSBBZ220L/2	DSBBZ250L/2	DSBBZ320L/2	DSBBZ120L/3	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15℃~ -40℃					
压缩机 Comp.	型 号 Model	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160	HSN6451-40	
	数 量 Quantity	2	2	2	2	3	
	最大电流 Max.I(A)	2×144	2×197	2×216	2×274	3×65	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 R404A R507A Evap. Temp.	-25℃	208/112	307/166	345/179	430/227	186/97.8
		-30℃	172/107	251/160	285/170	354/219	154/94.2
		-35℃	140/103	202/154	233/162	289/211	125/90.9
		-40℃	113/97.8	161/149	188/155	232/203	99.3/87.3
		-45℃	89.2/93.0	126/145	149/150	197/182	77.1/83.4
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser					
	换热量 Heat Exchange KW	320.0	473.0	524.0	657.0	657.0	283.8
储液器 Receiver	L	200	300	300	400	400	200
供液接口 Liquid Line(mm)		φ42	DN50	DN50	DN50	DN50	φ42
吸气接口 Suction Line(mm)		DN100	DN125	DN125	DN125	DN125	2×DN80
尺寸 Size	长Length(mm)	2250	2750	2750	2750	3000	3000
	宽Width(mm)	1800	1980	1980	1980	1980	1800
	高Height(mm)	2050	2280	2280	2280	2280	2100
备注: 参数标定为冷凝温度36℃, 过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 ℃ and a superheat degree of 10K.							

DSBBZ125L/2								
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15℃~ -40℃						
压缩机 Comp.	型 号 Model	HSN8571-125	HSN8591-160	HSN6451-40	HSN6461-50	HSN7451-60	HSN7461-70	
	数 量 Quantity	1	1	2	2	2	2	
	最大电流 Max.I(A)	216	274	2×65	2×79	2×98	2×124	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 R404A R507A Evap. Temp.	-25℃	172/89.6	215/113.4	124/65.2	143/78.6	175/93.6	198/102
		-30℃	143/85.1	177/109.4	102/62.8	118/75.2	143/91.4	163/98.0
		-35℃	117/81.1	144/106	83.0/60.6	96.4/71.8	116/89.4	132/94.6
		-40℃	94.1/77.7	116/101	66.2/58.2	77.4/68.4	91.8/87.0	106/91.0
		-45℃	74.7/74.9	98.6/91.2	51.4/55.6	61.0/64.8	71.0/83.8	82.4/87.4
冷凝器 Condenser	形 式 Form	蒸发式冷凝器 Evaporative Condenser						
	换热量 Heat Exchange KW	261.6	328.4	189.2	221.6	268.6	300.0	
储液器 Receiver	L	200	250	150	150	150	200	
供液接口 Liquid Line(mm)		φ35	φ42	φ35	φ35	φ35	φ42	
吸气接口 Suction Line(mm)		DN100	DN100	DN80	DN80	DN100	DN100	
尺寸 Size	长Length(mm)	2350	2350	2250	2250	2250	2250	
	宽Width(mm)	1250	1250	1800	1800	1800	1800	
	高Height(mm)	1850	1850	2050	2050	2050	2050	
备注: 参数标定为冷凝温度36℃, 过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 ℃ and a superheat degree of 10K.								

DSBBZ150L/3							
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15℃~ -40℃					
压缩机 Comp.	型 号 Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	
	数 量 Quantity	3	3	3	3	3</	

MAIN TECHNICAL PARAMETERS 主要技术参数

- 低温型蒸发冷螺杆机组 LOW TEMPERATURE EVAPORATIVE COOLING SCREW UNIT
 ○ 制冷剂 R404A/R507A (带经济器) Refrigerant R404A/R507A (Equipped With An Economic Device)

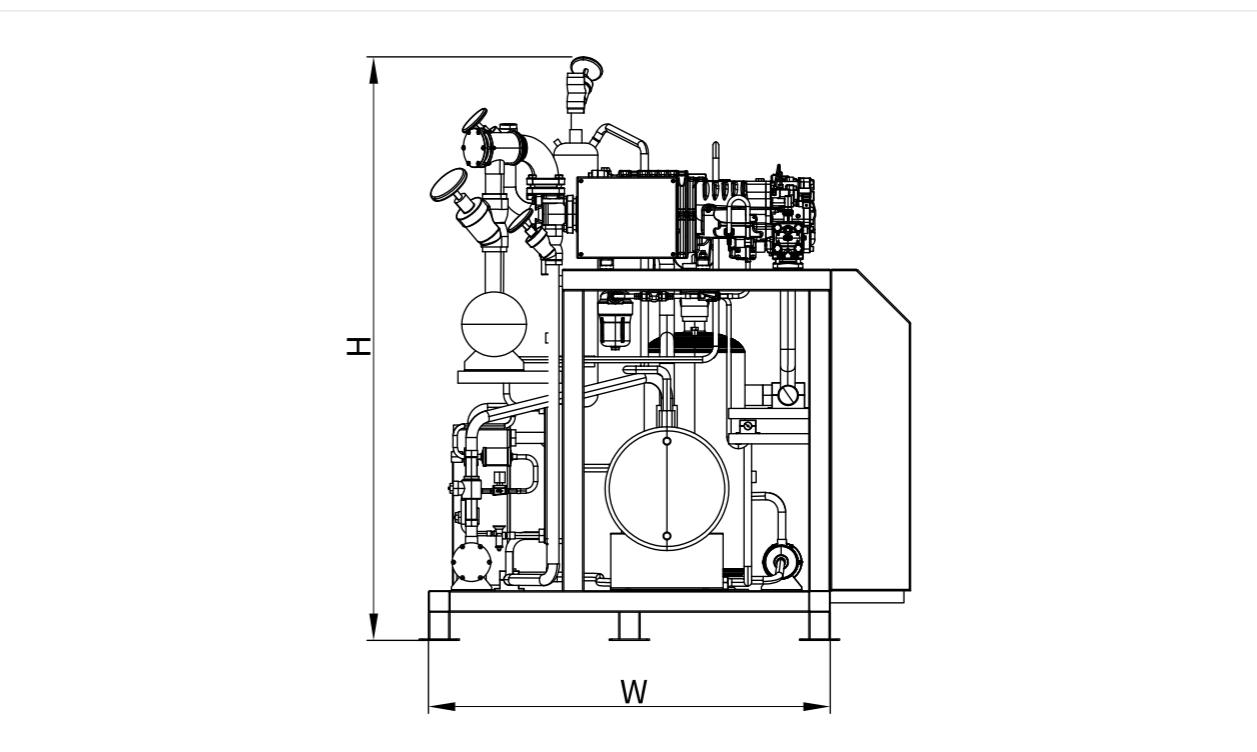
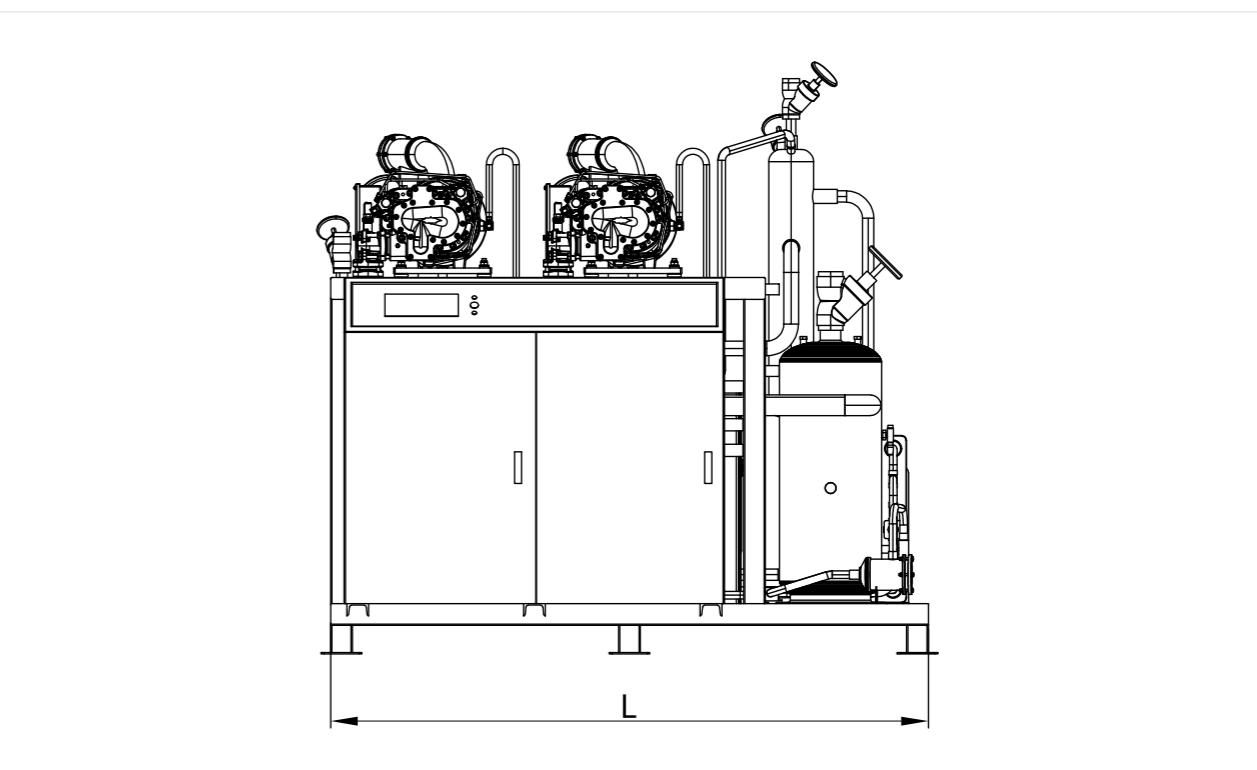
HSN系列 HSN SERIES							
机组型号 Model		DSBBZ375L/3	DSBBZ480L/3	DSBBZ160L/4	DSBBZ200L/4	DSBBZ240L/4	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15°C~+40°C					
压缩机 Comp.	型 号 Model	HSN8571-125	HSN8591-160	HSN6451-40	HSN6461-50	HSN7451-60	
	数 量 Quantity	3	3	4	4	4	
	最大电流 Max.I(A)	3×216	3×274	4×65	4×79	4×98	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	-25°C	517/269	645/340	248/130	286/157	
		-30°C	428/255	531/328	205/126	236/150	
		-35°C	350/243	433/317	166/121	193/144	
		-40°C	282/233	347/304	132/116	155/137	
		-45°C	224/225	296/274	103/111	122/130	
冷凝器 Condenser		蒸发式冷凝器 Evaporative Condenser					
换热量 Heat Exchange KW		786.0	985.0	378.0	443.0	537.0	
储液器 Receiver		L	500	600	250	250	
供液接口 Liquid Line(mm)		DN65	DN65	Φ 42	Φ 42	DN50	
吸气接口 Suction Line(mm)		2×DN125	2×DN125	2×DN80	2×DN80	2×DN100	
尺寸 Size	长Length(mm)	3600	3600	3600	3800	3800	
	宽Width(mm)	1980	1980	1980	1800	1800	
	高Height(mm)	2280	2280	2280	2150	2150	

备注：参数标定为冷凝温度36°C，过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 °C and a superheat degree of 10K.

机组型号 Model		DSBBZ280L/4	DSBBZ300L/4	DSBBZ440L/4	DSBBZ500L/4	DSBBZ640L/4	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15°C~+40°C					
压缩机 Comp.	型 号 Model	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160	
	数 量 Quantity	4	4	4	4	4	
	最大电流 Max.I(A)	4×124	4×144	4×197	4×216	4×274	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	-25°C	395/203	416/225	614/331	690/358	
		-30°C	325/196	344/215	501/320	570/340	
		-35°C	264/189	281/205	405/308	466/324	
		-40°C	211/182	226/196	322/297	376/311	
		-45°C	165/175	178/186	251/290	299/300	
冷凝器 Condenser		蒸发式冷凝器 Evaporative Condenser					
换热量 Heat Exchange KW		598.0	641.0	945.0	1048.0	1314.0	
储液器 Receiver		L	400	400	600	600	
供液接口 Liquid Line(mm)		DN50	DN50	DN65	DN65	DN65	
吸气接口 Suction Line(mm)		2×DN100	2×DN100	2×DN125	2×DN125	2×DN125	
尺寸 Size	长Length(mm)	3800	3800	4400	4400	4400	
	宽Width(mm)	1800	1800	1980	1980	1980	
	高Height(mm)	2150	2150	2380	2380	2380	

备注：参数标定为冷凝温度36°C，过热度10K。 Note: The parameter calibration is set to a condensation temperature of 36 °C and a superheat degree of 10K.

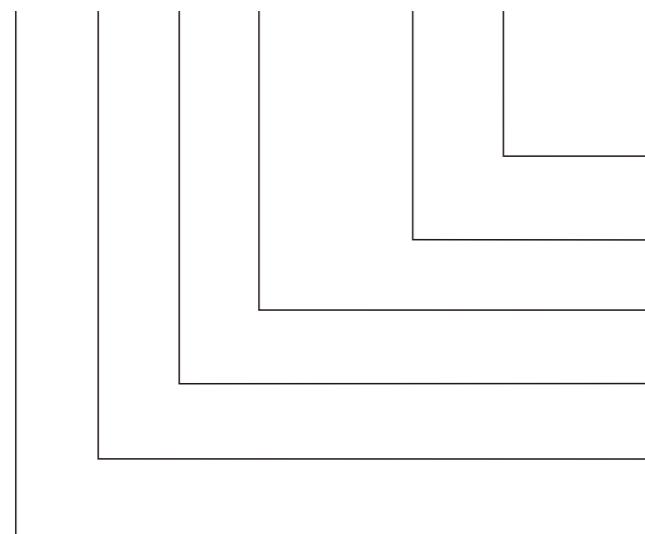
OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT 机组外形及安装尺寸图





→ 型号说明 MODEL DESCRIPTION

DS B B S - 100 L / 2



压缩机数量
Number of compressors

适用温度代码: M: 中温, L: 低温
Applicable temperature code:
M: Medium temperature, L: low temperature

压缩机额定功率 (HP)
Rated power of compressor (HP)

冷却形式: F: 风冷式, S: 水冷式, Z: 蒸发冷
Cooling form: F: Air-cooled type, S: Water cooled, Z: Evaporative cooling

制冷剂代码: A: R22, B: R404A/R507A
Refrigerant code: A: R22, B: R404A/R507A

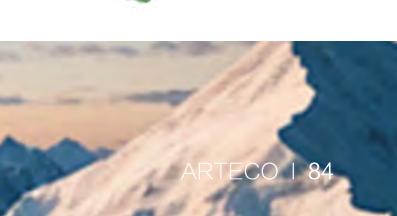
压缩机品牌: B: 比泽尔, R: 莱富康
Compressor brand: B: Bitzer, R: RefComp

产品系列
Product series

→ 产品概述 PRODUCT OVERVIEW

- ◆ DS系列半封闭螺杆机组，主要配套大制冷量需求的冷库项目使用；
- ◆ 本机采用比泽尔品牌HSK/HSN系列半封闭螺杆压缩机；
- ◆ 机组设计满足-5~+5℃的食品保鲜、-18℃以下的低温冷藏及-35℃以下的食品速冻使用，单机名义功率从40HP~180HP，具有单压缩机组和多压缩机并联机组；
- ◆ 机组标准设计采用水冷冷凝方式，采用高效壳管式水冷冷凝器，并配有独立的储液器；
- ◆ 机组采用西门子PLC控制，主要电器配件采用施耐德；采用彩色触摸屏显示模式；
- ◆ 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用。

- ◆ The DS series semi enclosed screw unit is mainly used for cold storage projects with high refrigeration demand;
- ◆ This machine adopts the BITZER brand HSK/HSN series semi closed screw compressor;
- ◆ The unit design meets the requirements of food preservation at -5~+5 °C, low-temperature refrigeration below -18 °C, and quick freezing of food below -35 °C. The nominal power of a single unit ranges from 40HP ~180HP, and it has a single compressor unit and a multi compressor parallel unit;
- ◆ The standard design of the unit adopts water-cooled condensation method, using high-efficiency shell and tube water-cooled condenser, and equipped with independent liquid storage tank;
- ◆ The unit is controlled by Siemens PLC, and the main electrical components are Schneider; Adopting a color touch screen display mode;
- ◆ Can meet the needs of refrigerants such as R22, R404A, R507A, R448A, R449A, etc.



MAIN TECHNICAL PARAMETERS 主要技术参数



→ 中温型水冷螺杆机组 MEDIUM TEMPERATURE WATER-COOLED SCREW UNIT

○ 制冷剂 R404A/R507A Refrigerant R404A/R507A

HSK系列 HSK SERIES

机组型号 Model		DSBBS50M/1	DSBBS60M/1	DSBBS70M/1	DSBBS80M/1	DSBBS90M/1	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK6451-50	HSK6461-60	HSK7451-70	HSK7461-80	HSK7471-90	
	数 量 Quantity	1	1	1	1	1	
	最大电流 Max.I(A)	79	98	124	144	162	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	0℃	125/35.0	150/44.7	183/50.5	208/57.7	227/65.5
		-5℃	103/34.6	124/43.6	150/50.9	171/57.1	188/63.9
		-10℃	84.3/34.2	101/42.7	123/51.2	140/56.6	154/62.4
		-15℃	68.3/33.8	82.1/41.7	99.2/51.4	114/55.9	125/61.0
冷凝器 Condenser	形 式 Form	壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	29.6	36.0	43.2	49.0	54.1	
	冷却水接口 Water Connect(inch)	DN65	DN65	DN80	DN80	DN80	
供液接口Liquid Line(mm)		φ28	φ28	φ28	φ28	φ35	
吸气接口Suction Line(mm)		DN50	DN50	DN80	DN80	DN80	
尺寸 Size	长Length(mm)	1900	1900	2050	2050	2050	
	宽Width(mm)	1100	1100	1100	1100	1100	
	高Height(mm)	1630	1630	1630	1630	1630	

备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

HSK系列 HSK SERIES

机组型号 Model		DSBBS100M/2	DSBBS120M/2	DSBBS140M/2	DSBBS160M/2	DSBBS180M/2	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK6451-50	HSK6461-60	HSK7451-70	HSK7461-80	HSK7471-90	
	数 量 Quantity	2	2	2	2	2	
	最大电流 Max.I(A)	2X79	2X98	2X124	2X144	2X162	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	0℃	250/70.0	300/89.4	365/101	416/115	454/131
		-5℃	206/69.2	248/87.2	301/102	343/114	375/128
		-10℃	169/68.4	203/85.4	246/102	281/113	307/125
		-15℃	137/67.6	164/83.4	198/103	227/112	249/122
冷凝器 Condenser	形 式 Form	壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	59.2	72.1	86.6	98.2	108.1	
	冷却水接口 Water Connect(inch)	DN100	DN100	DN100	DN125	DN125	
供液接口Liquid Line(mm)		φ35	φ35	φ42	φ42	φ42	
吸气接口Suction Line(mm)		DN100	DN100	DN125	DN125	DN125	
尺寸 Size	长Length(mm)	2250	2250	2250	2250	2250	
	宽Width(mm)	1800	1800	1800	1800	1800	
	高Height(mm)	2050	2050	2050	2050	2050	

备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

机组型号 Model		DSBBS110M/1	DSBBS125M/1	DSBBS140M/1	DSBBS160M/1	DSBBS180M/1	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK8551-110	HSK8561-125	HSK8571-140	HSK8581-160	HSK8591-180	
	数 量 Quantity	1	1	1	1	1	
	最大电流 Max.I(A)	180	216	246	277	330	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	0℃	284/78.9	323/90.7	368/103	420/117	479/132
		-5℃	234/77.5	266/88.8	304/100	349/113	397/129
		-10℃	190/76.3	217/87.2	250/98.2	287/110	326/125
		-15℃	153/75.3	176/85.8	203/96.4	234/107	265/122
冷凝器 Condenser	形 式 Form	壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	67.0	76.3	86.8	99.3	113.1	
	冷却水接口 Water Connect(inch)	DN100	DN100	DN100	DN100	DN125	
供液接口Liquid Line(mm)		φ35	φ35	φ35	φ42	φ42	
吸气接口Suction Line(mm)		DN100	DN100	DN100	DN100	DN125	
尺寸 Size	长Length(mm)	2350	2350	2350	2350	2350	
	宽Width(mm)	1250	1250	1250	1250	1250	
	高Height(mm)	1780	1780	1850	1850	1850	

备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

机组型号 Model		DSBBS220M/2	DSBBS250M/2	DSBBS280M/2	DSBBS320M/2	DSBBS360M/2	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK8551-110	HSK8561-125	HSK8571-140	HSK8581-160	HSK8591-180	
	数 量 Quantity	2	2	2	2	2	
	最大电流 Max.I(A)	2X180	2X216	2X246	2X277	2X330	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	0℃	568/158	646/181	736/206	840/234	958/265
		-5℃	468/155	532/178	608/201	698/226	794/257
		-10℃	381/153	434/174	500/196	574/220	652/250

MAIN TECHNICAL PARAMETERS 主要技术参数

→ 中温型水冷螺杆机组 MEDIUM TEMPERATURE WATER-COOLED SCREW UNIT

○ 制冷剂 R404A/R507A Refrigerant R404A/R507A

HSK系列 HSK SERIES

机组型号 Model		DSBBS150M/3	DSBBS180M/3	DSBBS210M/3	DSBBS240M/3	DSBBS270M/3	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK6451-50	HSK6461-60	HSK7451-70	HSK7461-80	HSK7471-90	
	数 量 Quantity	3	3	3	3	3	
	最大电流 Max.I(A)	3X79	3X98	3X124	3X144	3X162	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	0℃	374/105	450/134	548/152	624/173	681/197
		-5℃	309/104	371/131	451/153	514/171	563/192
		-10℃	253/103	304/128	368/154	421/170	461/187
		-15℃	205/101	246/125	298/154	341/168	374/183
冷凝器 Condenser	形 式 Form	壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	88.8	107.9	129.8	147.2	162.3	
	冷却水接口 Water Connect(inch)	DN125	DN125	DN125	DN150	DN150	
供液接口Liquid Line(mm)		φ42	φ42	DN50	DN50	DN50	
吸气接口Suction Line(mm)		2×DN80	2×DN80	2×DN80	2×DN80	2×DN100	
尺寸 Size	长Length(mm)	3000	3000	3000	3000	3000	
	宽Width(mm)	1800	1800	1800	1800	1800	
	高Height(mm)	2100	2100	2100	2100	2100	

备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

HSK系列 HSK SERIES

机组型号 Model		DSBBS200M/4	DSBBS240M/4	DSBBS280M/4	DSBBS320M/4	DSBBS360M/4	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK6451-50	HSK6461-60	HSK7451-70	HSK7461-80	HSK7471-90	
	数 量 Quantity	4	4	4	4	4	
	最大电流 Max.I(A)	4X79	4X98	4X124	4X144	4X162	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	0℃	499/140	600/179	730/202	832/231	908/262
		-5℃	412/138	495/174	601/204	686/228	751/256
		-10℃	337/137	405/171	491/205	561/226	614/250
		-15℃	273/135	328/167	397/206	455/224	498/244
冷凝器 Condenser	形 式 Form	壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	118.2	143.8	173.0	196.5	216.5	
	冷却水接口 Water Connect(inch)	DN125	DN125	DN150	DN150	DN150	
供液接口Liquid Line(mm)		φ42	φ42	DN50	DN50	DN50	
吸气接口Suction Line(mm)		2×DN80	2×DN80	2×DN100	2×DN100	2×DN100	
尺寸 Size	长Length(mm)	3800	3800	3800	3800	3800	
	宽Width(mm)	1800	1800	1800	1800	1800	
	高Height(mm)	2150	2150	2150	2150	2150	

备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

机组型号 Model		DSBBS330M/3	DSBBS375M/3	DSBBS420M/3	DSBBS480M/3	DSBBS540M/3	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK8551-110	HSK8561-125	HSK8571-140	HSK8581-160	HSK8591-180	
	数 量 Quantity	3	3	3	3	3	
	最大电流 Max.I(A)	3X180	3X216	3X246	3X277	3X330	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	0℃	852/237	969/272	1104/308	1260/350	1437/397
		-5℃	702/233	798/266	912/301	1047/340	1191/386
		-10℃	571/229	651/262	750/295	861/330	978/375
		-15℃	460/226	528/257	609/289	702/321	795/366
冷凝器 Condenser	形 式 Form	壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	201.0	228.7	260.7	298.2	339.0	
	冷却水接口 Water Connect(inch)	DN150	DN150	DN200	DN200	DN200	
供液接口Liquid Line(mm)		DN50	DN50	DN65	DN65	DN65	
吸气接口Suction Line(mm)		2×DN100	2×DN100	2×DN125	2×DN125	2×DN125	
尺寸 Size	长Length(mm)	3600	3600	3600	3600	3600	
	宽Width(mm)	1980	1980	1980	1980	1980	
	高Height(mm)	2280	2280	2380	2380	2380	

备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

机组型号 Model		DSBBS440M/4	DSBBS500M/4	DSBBS560M/4	DSBBS640M/4	DSBBS720M/4	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型 号 Model	HSK8551-110	HSK8561-125	HSK8571-140	HSK8581-160	HSK8591-180	
	数 量 Quantity	4	4	4	4	4	
	最大电流 Max.I(A)	4X180	4X216	4X246	4X277	4X330	
制冷量/功率(KW) Capacity/Power(KW)	蒸发温度 Evap. Temp. R404A R507A	0℃	1136/316	1292/363	1472/411	1680/467	1916/529
		-5℃	936/310	1064/355	1216/402	1396/453	1588/515
		-10℃	761/305	868/349	1000/393	1148/440	1304/500

MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温型水冷螺杆机组 LOW TEMPERATURE WATER-COOLED SCREW UNIT

○ 制冷剂 R404A/R507A (带经济器) Refrigerant R404A/R507A (Equipped With An Economic Device)



HSN系列 HSN SERIES								
机组型号 Model		DSBBS40L/1	DSBBS50L/1	DSBBS60L/1	DSBBS70L/1	DSBBS75L/1	DSBBS110L/1	
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15℃~ -40℃						
压缩机 Comp.	型 号 Model	HSN6451-40	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	
	数 量 Quantity	1	1	1	1	1	1	
	最大电流 Max.I(A)	65	79	98	124	144	197	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 R404A Evap. Temp.	-25℃	60.6/35.6	69.2/42.6	84.1/51.1	95.5/55.2	100/60.7	142/90.1
		-30℃	49.8/34.4	57.2/40.8	69.0/50.0	78.7/53.4	82.9/58.1	115/86.9
		-35℃	40.4/33.2	46.7/39.0	55.7/48.9	63.9/51.5	67.7/55.5	92.2/83.6
		-40℃	32.2/31.8	37.5/37.2	44.2/47.6	51.0/49.6	54.5/53.0	72.3/80.7
		-45℃	25.0/30.5	29.5/35.4	34.2/46.1	39.9/47.7	43.0/50.7	55.5/78.7
冷凝器 Condenser	形式 Form		壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	27.6	32.0	38.8	43.2	46.1	66.5	
	冷却水接口 Water Connect(inch)	DN65	DN65	DN65	DN80	DN80	DN100	
供液接口 Liquid Line(mm)		φ28	φ28	φ28	φ28	φ28	φ35	
吸气接口 Suction Line(mm)		DN50	DN50	DN80	DN80	DN80	DN100	
尺寸 Size	长Length(mm)	1900	1900	2150	2150	2150	2350	
	宽Width(mm)	1100	1100	1100	1100	1100	1250	
	高Height(mm)	1630	1630	1630	1630	1630	1780	
备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。								
Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.								

HSN系列 HSN SERIES								
机组型号 Model		DSBBS150L/2	DSBBS220L/2	DSBBS250L/2	DSBBS320L/2	DSBBS120L/3		
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15℃~ -40℃						
压缩机 Comp.	型 号 Model	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160	HSN6451-40		
	数 量 Quantity	2	2	2	2	3		
	最大电流 Max.I(A)	2×144	2×197	2×216	2×274	3×65		
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 R404A Evap. Temp.	-25℃	201/121	284/180	330/192	412/347	182/107	
		-30℃	166/116	231/174	273/183	339/239	149/103	
		-35℃	135/111	184/167	222/175	276/230	121/100	
		-40℃	109/106	145/161	179/168	221/220	96.6/95.4	
		-45℃	86.0/101	111/157	141/161	173/210	75.0/91.5	
冷凝器 Condenser	形式 Form		壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	92.3	133.0	149.6	217.5	82.8		
	冷却水接口 Water Connect(inch)	DN125	DN125	DN125	DN150	DN100		
供液接口 Liquid Line(mm)		φ42	DN50	DN50	DN50	φ42		
吸气接口 Suction Line(mm)		DN100	DN125	DN125	DN125	2×DN80		
尺寸 Size	长Length(mm)	2250	2750	2750	2750	3000		
	宽Width(mm)	1800	1980	1980	1980	1800		
	高Height(mm)	2050	2280	2280	2280	2100		
备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。								
Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.								

DSBBS125L/2 DSBBS160L/2 DSBBS80L/2 DSBBS100L/2 DSBBS120L/2 DSBBS140L/2								
电 源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15℃~ -40℃						
压缩机 Comp.	型 号 Model	HSN8571-125	HSN8591-160	HSN6451-40	HSN6461-50	HSN7451-60	HSN7461-70	
	数 量 Quantity	1	1	2	2	2	2	
	最大电流 Max.I(A)	216	274	2×65	2×79	2×98	2×124	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 R404A Evap. Temp.	-25℃	165/96.0	206/124	121/71.2	138/85.2	168/102	191/110
		-30℃	136/91.5	169/119	100/68.8	114/81.6	138/100	157/107
		-35℃	111/88.0	138/115	80.8/66.4	93.4/78.0	111/97.8	128/103
		-40℃	89.4/83.9	110/110	64.4/63.6	75.0/74.4	88.4/95.2	102/99.2
		-45℃	70.5/80.7	86.4/105	50.0/61.0	59.0/70.8	68.4/92.2	79.8/95.4
冷凝器 Condenser	形式 Form		壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	74.8	94.6	55.1	64.0	77.4	86.3	
	冷却水接口 Water Connect(inch)	DN100	DN125	DN100	DN100	DN100	DN100	
供液接口 Liquid Line(mm)		φ35	φ42	φ35	φ35	φ42	φ42	
吸气接口 Suction Line(mm)		DN100	DN100	DN80	DN80	DN100	DN100	
尺寸 Size	长Length(mm)	2350	2350	2250	2250	2250	2250	
	宽Width(mm)	1250	1250	1800	1800	1800	1800	
	高Height(mm)	1850	1850	2050	2050	2050	2050	
备注：参数标定为冷却水进水温度 30℃，冷凝温度 40℃，过热度10K。								
Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.								

DSBBS150L/3 DSBBS180L/3 DSBBS210L/3 DSBBS225L/3 DSBBS330L/3							
电 源 Power Supply		3P/380V/50Hz					

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MAIN TECHNICAL PARAMETERS 主要技术参数

→ 低温型水冷螺杆机组 LOW TEMPERATURE WATER-COOLED SCREW UNIT

○ 制冷剂 R404A/R507A (带经济器) Refrigerant R404A/R507A (Equipped With An Economic Device)

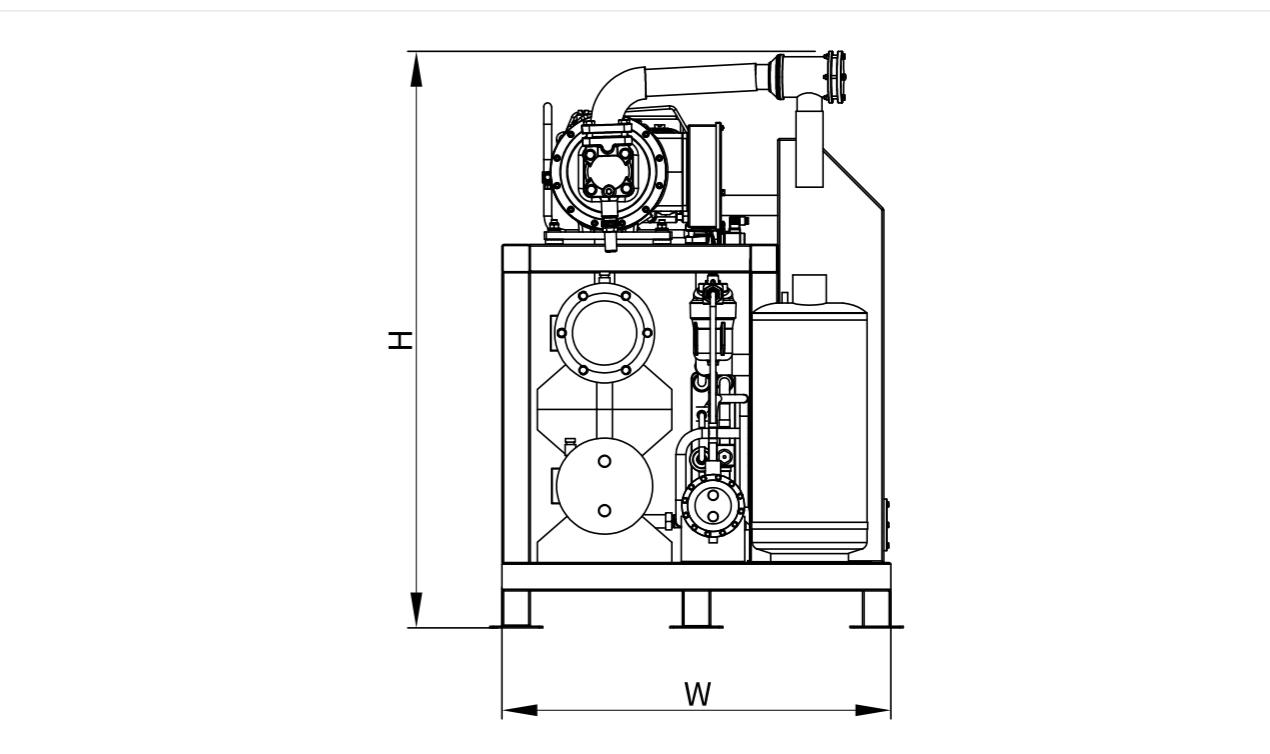
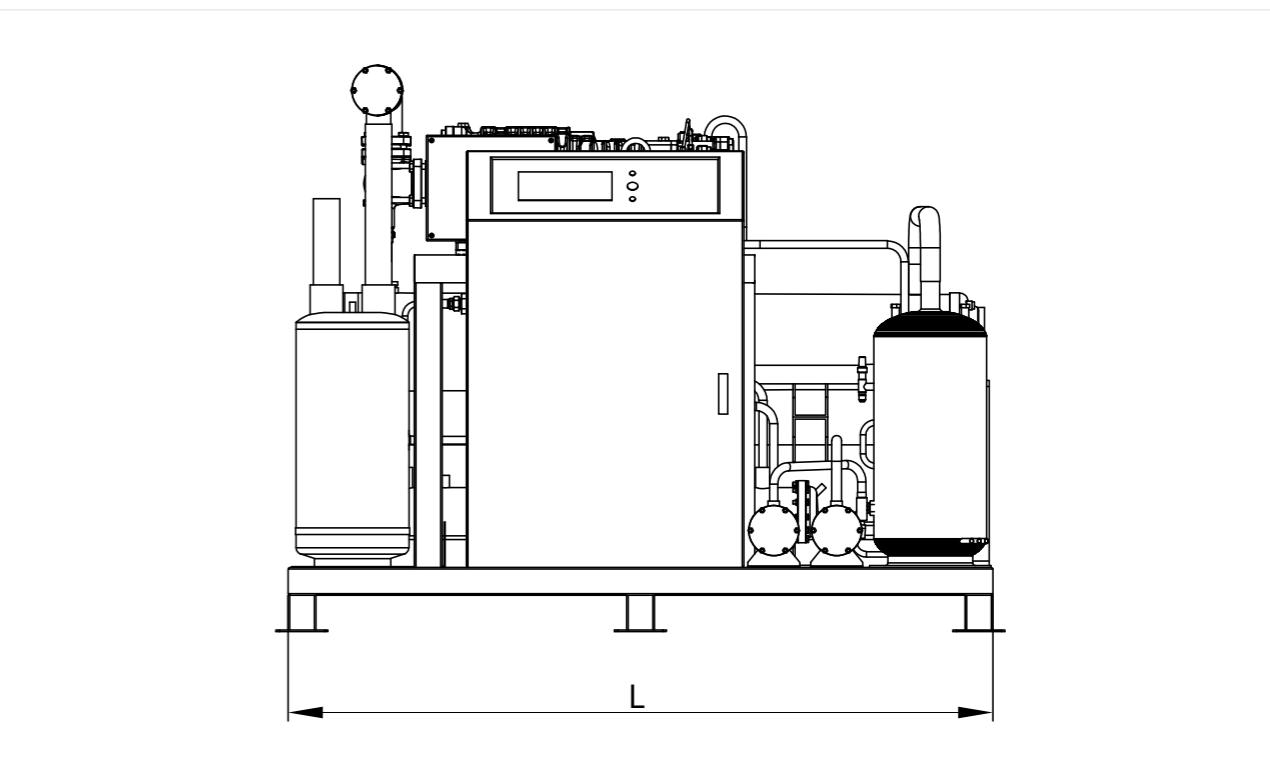
HSN系列 HSN SERIES

机组型号 Model		DSBBS375L/3	DSBBS480L/3	DSBBS160L/4	DSBBS200L/4	DSBBS240L/4	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15°C~+40°C					
压缩机 Comp.	型 号 Model	HSN8571-125	HSN8591-160	HSN6451-40	HSN6461-50	HSN7451-60	
	数 量 Quantity	3	3	4	4	4	
	最大电流 Max.I(A)	3×216	3×274	4×65	4×79	4×98	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	-25°C	495/288	618/371	242/142	277/170	336/204
		-30°C	409/275	508/358	199/138	229/163	276/200
		-35°C	334/263	413/345	162/133	187/156	223/196
		-40°C	268/252	331/331	129/127	150/149	177/190
		-45°C	212/242	259/315	100/122	118/142	137/184
冷凝器 Condenser	形 式 Form	壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	224.4	283.5	110.1	128.1	154.8	
	冷却水接口 Water Connect(inch)	DN150	DN200	DN125	DN125	DN125	
供液接口 Liquid Line(mm)		DN65	DN65	Φ42	Φ42	DN50	
吸气接口 Suction Line(mm)		2×DN125	2×DN125	2×DN80	2×DN80	2×DN100	
尺寸 Size	长 Length(mm)	3600	3600	3600	3800	3800	
	宽 Width(mm)	1980	1980	1980	1800	1800	
	高 Height(mm)	2280	2280	2280	2150	2150	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

OUTLINE AND INSTALLATION DIMENSION DIAGRAM OF THE UNIT 机组外形及安装尺寸图



机组型号 Model		DSBBS280L/4	DSBBS300L/4	DSBBS440L/4	DSBBS500L/4	DSBBS640L/4	
电 源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15°C~+40°C					
压缩机 Comp.	型 号 Model	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160	
	数 量 Quantity	4	4	4	4	4	
	最大电流 Max.I(A)	4×124	4×144	4×197	4×216	4×274	
制冷量/ 功率(KW) Capacity/ Power(KW)	蒸发 温度 Evap. Temp. R404A R507A	-25°C	382/221	402/243	569/360	660/384	824/494
		-30°C	315/214	332/232	461/348	545/366	678/477
		-35°C	256/206	271/222	369/334	445/350	551/460
		-40°C	204/198	218/212	289/323	358/336	441/441
		-45°C	160/191	172/203	222/315	282/323	346/420
冷凝器 Condenser	形 式 Form	壳管式冷凝器 Shell And Tube Condenser					
	冷却水流量 Water Flow(m³/h)	172.8	184.9	266.3	299.2	377.8	
	冷却水接口 Water Connect(inch)	DN150	DN150	DN150	DN200	DN250	
供液接口 Liquid Line(mm)		DN50	DN50	DN65	DN65	DN65	
吸气接口 Suction Line(mm)		2×DN100	2×DN100	2×DN125	2×DN125	2×DN125	
尺寸 Size	长 Length(mm)	3800	3800	4400	4400	4400	
	宽 Width(mm)	1800	1800	1980	1980	1980	
	高 Height(mm)	2150	2150	2380	2380	2380	

备注：参数标定为冷却水进水温度 30°C，冷凝温度 40°C，过热度10K。

Note: The parameter calibration is for a cooling water inlet temperature of 30 °C, a condensation temperature of 40 °C, and a superheat degree of 10K.

SELECTION GUIDE FOR AIR COOLERS

→ 冷凝机组的选用说明

冷凝机组的选用应根据所需要的制冷负荷、使用温度、运行蒸发温度、环境温度、制冷剂、电源形式等因素综合考虑,合理选用。

(1)关于制冷负荷:冷库应用的制冷负荷,应包括库体围护结构的传热量,货物的热量、库内运转电机热量、换气热量、操作热量等,应结合具体的冷库应用性质进行详细计算;

(2)关于使用温度:对于冷库应用,应合理确定冷库的使用温度,可参照下表来确定:

冷库用途	推荐温度	冷库用途	推荐温度
香蕉等储存	11~16°C	红酒、巧克力储存	7~18°C
黄瓜、西红柿、菜豆、柿子辣椒、菠萝、柑等	7~13°C	鸡蛋、牛奶、茶叶等储存	2~5°C
土豆、山华、洋葱、橘子、荔枝等	2~4°C	冰鲜鱼、冷鲜肉、熟食品等	-1~2°C
大白菜、蒜苗、胡萝卜、莴笋、苹果、梨等	0~2°C	冰块储存库	-5 ~ -10°C
冻结好的肉类、冻结好饺子汤圆、冰棒雪糕等	-18°C	速冻加工库	-2 ~ -35°C
冻结好的虾、鱼、等	-2 ~ -23°C	金枪鱼冻品储存库	-55 ~ -60°C

(3)关于运行蒸发温度:蒸发温度的高低,直接影响到机组制冷量的大小及能效,应结合实际的使用温度,合理确定蒸发温度,一般比库温低5~10°C,可参照下表确定:

库温	10°C	0°C	-18°C	-25°C	-35°C	-55°C
推荐蒸发温度	0°C	-8°C	-25°C	-31°C	-41°C	-60°C

● 根据所确定的蒸发温度选用合适的机组,可按下表选用:

库温	7~20°C	5~ -5°C	-15~ -25°C	-28°C以下
机组选用	高温型机组 (H)	中温型机组 (M)	低温型机组 (L)	速冻型机组 (J)

(4)关于环境温度:机组使用地区的环境温度应按照该地区的夏季空气调节日平均温度(查有关的气象资料)确定,而不是按照最高极限温度确定。通常情况下,可按照32°C的环境温度来选择。风冷机组标准设计环境温度为32°C,对于使用在38°C以上高环境温度地区时,应调整冷凝器的配置,选型时要特别注意。

(5)关于制冷剂:机组常用的制冷剂有R22、R404A、R507A、R448A、R449A等。

- R22:由于它的臭氧层消耗潜能指数ODP=0.055,对大气中的臭氧层有破坏作用,在有些国家和地区已经淘汰或限制使用,属于淘汰型制冷剂。当R22用于低蒸发温度时(-25°C以下),由于压缩机的排气温度较高,必须要附加必要的辅助冷却装置(如DTC阀、缸头风扇等),所以对于低温机组应尽量不选用R22;
- R404A、R507A:由于它的全球变暖潜能值(GWP)较高,在有些国家和地区已经限制使用,属于逐步淘汰型制冷剂。R404A、R507A可以满足高、中、低温使用。
- R448A、R449A:它的ODP=0、GWP较低,属于推广应用型制冷剂,可以满足高、中、低温使用。

在选择机组时应充分考虑所使用国家或地区对制冷剂的政策规定。

(6)关于电源形式:机组标准电源形式为380V/3相/50Hz,对于其它形式的电源必须特殊说明,选型时要特别注意。

SELECTION GUIDE FOR AIR COOLERS

→ 冷凝机组的选用说明

The selection of condensing units should be based on a comprehensive consideration of factors such as the required refrigeration load, operating temperature, evaporating temperature, ambient temperature, refrigerant, and power supply form, and should be selected reasonably.

(1) Regarding refrigeration load: The refrigeration load for cold storage applications should include the heat transfer of the enclosure structure, the heat of the goods, the heat of the operating motor inside the warehouse, the heat of ventilation, the heat of operation, etc., and should be calculated in detail based on the specific nature of the cold storage application;

(2) Regarding the usage temperature: For cold storage applications, the usage temperature of the cold storage should be reasonably determined, which can be determined by referring to the following table

Cold Storage Purpose	Recommended Temp.	Cold Storage Purpose	Recommended Temp.
Storage of bananas and other items	11~16°C	Red wine and chocolate storage	7~18°C
Cucumber, tomato, bean Persimmon chili, pineapple, oranges, etc	7~13°C	Storage of eggs, milk, tea, etc	2~5°C
Potatoes, mountain flowers, onions Oranges, lychees, etc	2~4°C	Ice fresh fish, cold fresh meat Cooked food, etc	-1~2°C
Chinese cabbage, garlic sprouts, carrots Lettuce, apples, pears, etc	0~2°C	Ice storage facility	-5 ~ -10°C
Frozen meat、Frozen dumplings, rice dumpling, popsicle, ice cream, etc	-18°C	Quick freezing processing warehouse	-2 ~ -35°C
Frozen shrimp Fish, ice cream, etc	-2 ~ -23°C	Tuna frozen storage warehouse	-55 ~ -60°C

(3) Regarding the operating evaporation temperature: The high or low evaporation temperature directly affects the cooling capacity and energy efficiency of the unit. The evaporation temperature should be reasonably determined based on the actual operating temperature. Generally, it is 5~10 °C lower than the storage temperature, which can be determined by referring to the table below:

Cold Room Temp.	10°C	0°C	-18°C	-25°C	-35°C	-55°C
Recommended Evaporation Temp.	0°C	-8°C	-25°C	-31°C	-41°C	-60°C

● Select the appropriate unit based on the determined evaporation temperature, as shown in the table below

Cold Room Temp.	7~20°C	5~ -5°C	-15~ -25°C	-Below 28 °C
Unit selection	High temperature unit (H)	Medium temperature unit (M)	Low temperature unit (L)	Quick freezing unit (J)

(4) Regarding environmental temperature: The environmental temperature in the area where the unit is used should be determined based on the average temperature of the summer air conditioning festival in that region (refer to relevant meteorological data), rather than the maximum temperature limit. Normally, the selection can be based on an ambient temperature of 32 °C. The standard design ambient temperature for air-cooled units is 32 °C. When used in high ambient temperature areas above 38 °C, the configuration of the condenser should be adjusted, and special attention should be paid when selecting.

(5) Regarding refrigerants: The commonly used refrigerants for the unit include R22, R404A, R507A, R448A, R449A, etc.

- R22: Due to its ozone depletion potential index (ODP=0.055), it has a destructive effect on the ozone layer in the atmosphere and has been phased out or restricted in some countries and regions, making it an obsolete refrigerant. When R22 is used for low evaporation temperatures (below -25 °C), due to the high exhaust temperature of the compressor, necessary auxiliary cooling devices (such as DTC valves, cylinder head fans, etc.) must be added. Therefore, R22 should be avoided as much as possible for low-temperature units;
- R404A、R507A: Due to its high global warming potential (GWP), its use has been restricted in some countries and regions, and it belongs to a phase out refrigerant. R404A and R507A can meet high, medium, and low temperature requirements.
- R448A、R449A: Its ODP=0 and GWP are relatively low, making it a widely used refrigerant that can meet high, medium, and low temperature requirements. When selecting a unit, full consideration should be given to the policies and regulations of the country or region where the refrigerant is used.

(6) Regarding power supply form: The standard power supply form for the unit is 380V/3-phase/50Hz. Special instructions must be given for other forms of power supply, and special attention should be paid when selecting.