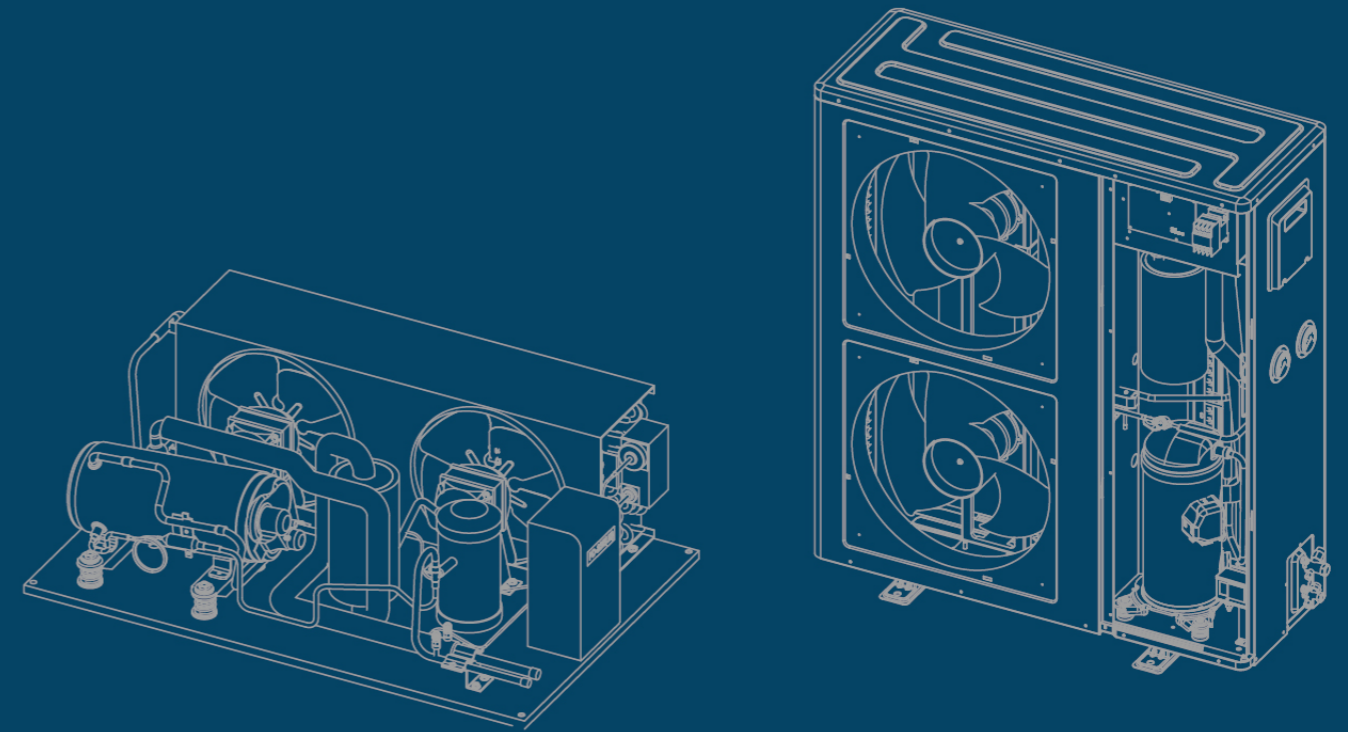


# BOYARD UNIT



## CATALOG



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E-Catalog



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# BOYARD

## 博阳机组

# BOYARD

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# 关于我们 ABOUT US

浙江博阳压缩机有限公司成立于2006年，是一家专业从事卡车、新能源汽车、房车、移动冷链运输车制冷压缩机、中低温压缩机及冷凝机组产品技术研发、生产、制造、销售和服务为一体的国家级高新技术企业。公司始终坚持“诚信、执着、创新、共赢”的企业核心价值观，经过多年的创新发展，博阳压缩机已在同行业中遥遥领先。

公司立足科技创新，倡导绿色环保理念，产品已获得浙江省名牌产品荣誉。是省级高新技术企业研发中心，全国家用电器标准化技术委员会冷链用压缩机标准起草单位，并受邀参与起草了《冷冻冷藏用喷液旋转式压缩机行业标准》。公司倡导自主创新，已获得国家专利局授权专利37项，其中发明专利6项，实用新型31项。

公司占地33000㎡，建筑面积21000㎡，拥有员工近400人。现代化标准厂房、技术研发中心和先进的检测设备，拥有工业产品生产许可证资质，具备年产100万台转子压缩机的能力。2018年江南工厂筹建完成，工厂占地面积98亩，建筑面积30137㎡，项目总投资2.5亿元，主要生产制冷机组及相关制冷产品。建立了完整的产品质量保证体系和环境管理体系，通过IATF16949质量体系认证、ISO14001环境管理体系认证、CCC、CE、UL、RoHS、REACH等多项认证。

公司始终坚持“质量第一，信誉第一”的宗旨，以科学的管理手段，雄厚的技术力量，不断深化改革，创新机制，适应市场，全面发展，不断拓展压缩机的应用领域，产品广泛应用于商超冷柜、物流冷链、冷库、除湿干燥设备、液体冷却、电池热管理、新能源汽车、卡车、船舶等不同的领域。公司凭借着良好的产品性价比和完善的售后服务体系，已与众多的国内外客户建立了良好的合作关系，产品远销欧盟、北美、澳洲、中东、东南亚、南非、南美洲等国家和地区。

Boyard Systems was born in 2006, is a state-level high-tech enterprise specializing in R&D, production, manufacture, sales and service of refrigeration compressors and units for trucks, new energy vehicles, RV and mobile cold chain transport vehicles, Medium and low temperature compressor and condensing unit. The company always adheres to the core values of "Faith, Persistence, Innovation, win-win situation". After years of continuous innovation and development, Boyard Systems has taken the lead in the industry.

Based on scientific and technological innovation, the company advocates the concept of green environmental protection. The products have won the honor of Zhejiang brand products. It is the research and development center of provincial high-tech enterprises, the drafting unit of the National Standardization Technical Committee of Household Appliances for Cold Chain Compressor Standards, and has been invited to participate in the drafting of the "Industrial standard for liquid injection rotary compressors for refrigeration". The company advocates independent innovation and has obtained 37 patents authorized by the State Patent Office, including 6 invention patents and 31 utility models.

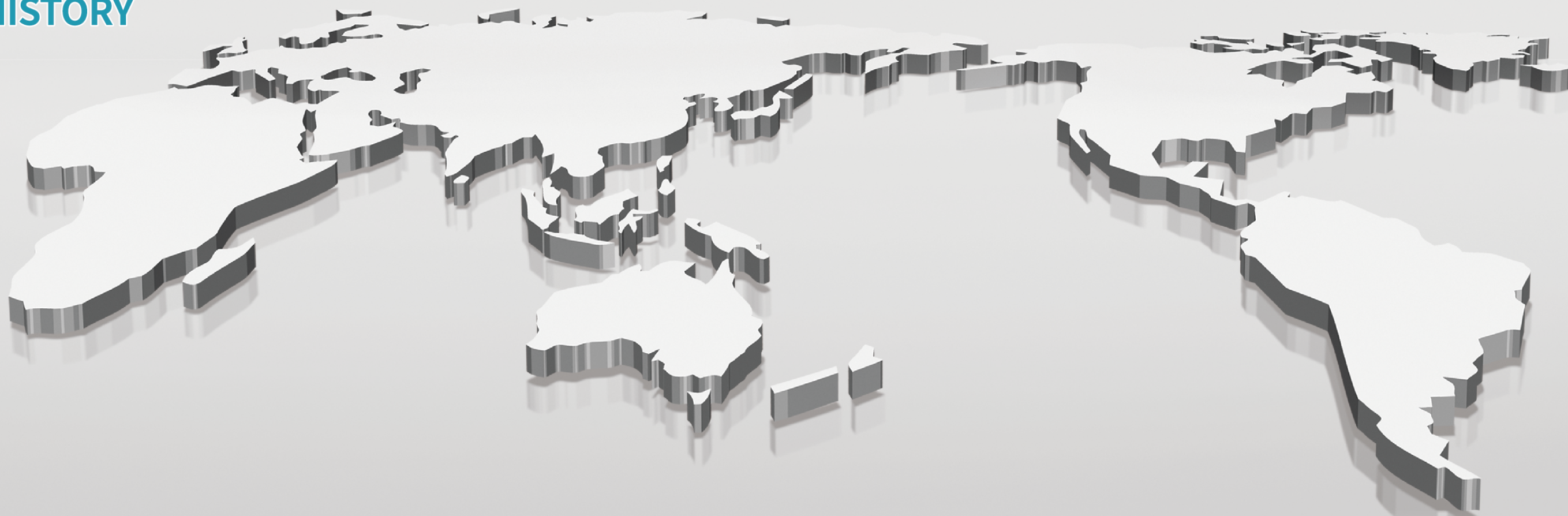
The company covers 33,000 square meters including 20,000 square meters of architectural area and nearly 400 employees. We have advanced production line, testing equipment and R&D center, We have the qualification of industrial product production license and the ability to produce 1 million rotary compressors per year. Jiangnan factory construction completed in 2018, the factory covers an area of 98 acres, construction area of 30137 square meters, the total investment of 250 million yuan, the main production of refrigeration unit and related cooling products. A complete product quality assurance system and environmental management system have been established. It has passed IATF16949 quality system certification, ISO14001 environmental management system certification, CCC, CE, UL, RoHS, REACH and other certifications.

The company always adheres to the tenet of "quality first, reputation first". With scientific management means and strong technical force, it continuously deepens reform, innovates mechanism, adapts to market, develops all-round development and expands compressor application fields. The products are widely used in commercial ultra-cold cabinets, logistics cold chain, cold storage, dehumidification and drying equipment, liquid cooling, battery heat management, new energy automobiles. Different fields such as trucks, ships, etc. With good product cost performance and perfect after-sales service system, the company has established good cooperative relations with many domestic and foreign customers. The products are exported to European Union, North America, Australia, Middle East, Southeast Asia, South Africa, South America and other countries and regions.



## 发展历程

# DEVELOPMENT HISTORY



**2002**

公司通过ISO9001  
质量体系认证  
Passed ISO9001

**2005**

公司主要产品获得  
CCC/CE/TUV/ROHS证书  
Obtained CCC/CE/TUV/ROHS  
certificates

**2008**

成功开发DC12/24/48/  
72/312V直流变频压缩机  
Developed DC 12/24/48/72/312V  
DC inverted frequency AC  
compressor

**2012**

投入生产技改, 实现产能  
100万台  
Achieved 1 million units  
compressor annual production capacity

**2016**

TS16949全面推行  
Passed TS16949

**2022**

箱式机组批量销售  
Batch selling of Box-type unit

**2001**

公司创立, 开发出高效  
节能空调压缩机, 并投  
入生产  
High efficiency AC compressor  
been put in production

**2004**

成功开发中低温压缩机  
和卧式车用空调压缩机  
Developed low temp compressor  
and horizontal vehicle AC compressor

**2006**

实现公司产品转型, 主导  
产品以特种压缩机和机组  
为主  
Company focused on special  
type compressor and  
condensing unit

**2010**

成立省级研发中心, 获得  
国家高新技术企业称号  
Established state R&D center  
and nominated with national  
high-tech company

**2013**

纯电动车用直流变频压缩  
机量产  
DC electric car AC compressor  
been put in production

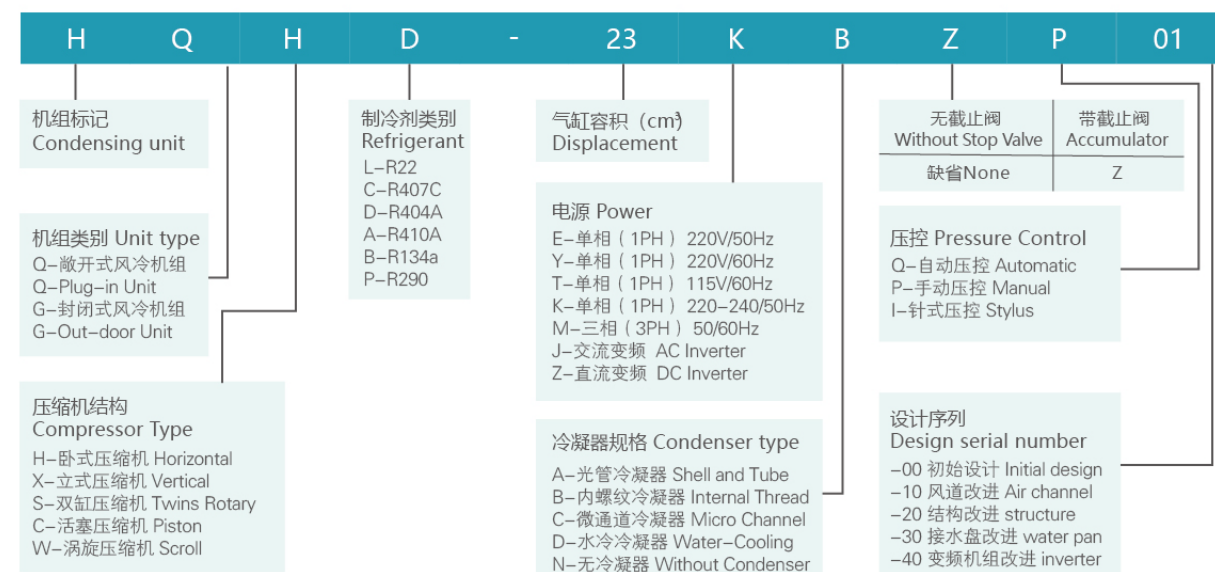
**2018**

二期工厂全自动化机组  
生产线投入使用  
New automated condensing unit  
production line put in use

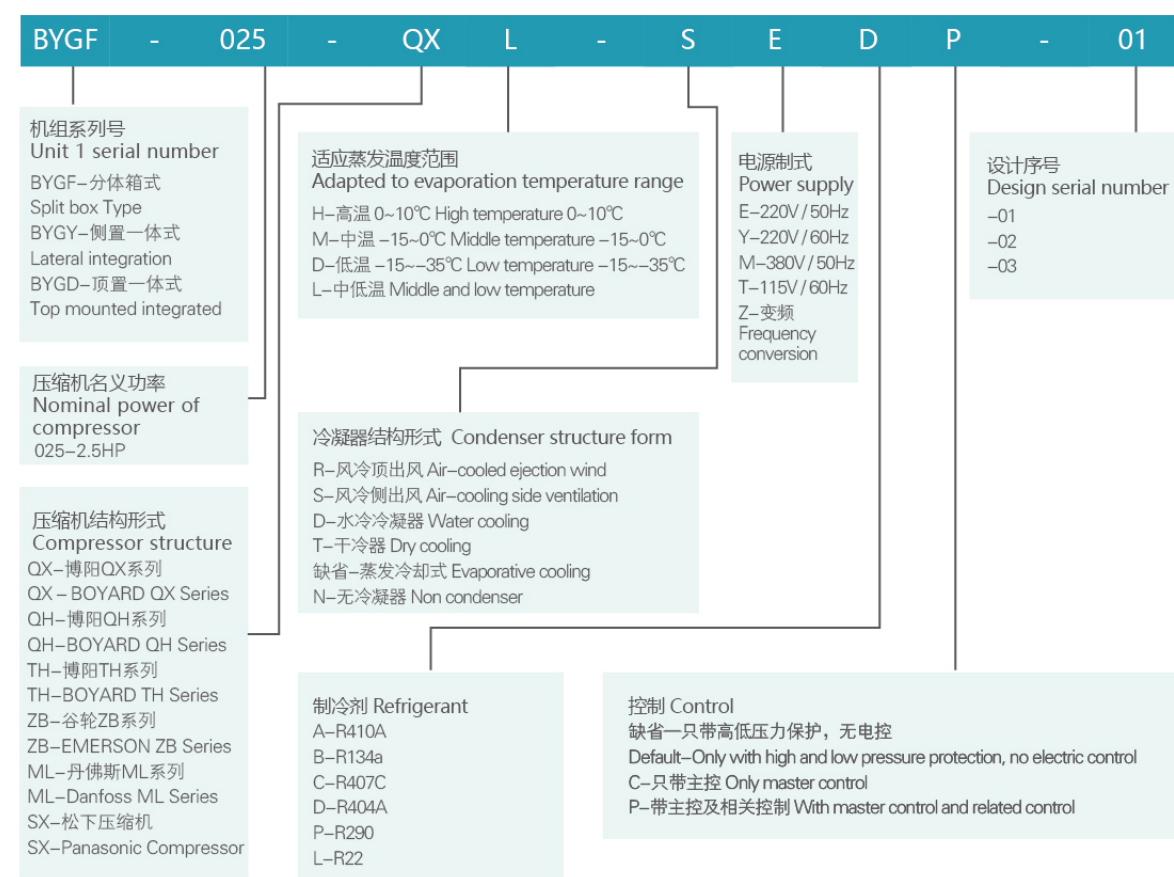
# 产品命名

## PRODUCT NAMING

### 命名方法 (一)



### 命名方法(二)



# 产品型谱

## PRODUCT TYPE SPECTRUM

换热形式	结构形式	冷媒	电源规格	马力 (HP)							
				0.75HP	1.0HP	1.5HP	2.0HP	2.5HP	3.0HP	4.0HP	
风冷	卧式标准型	R22	1PH 220V/50Hz								
		R290	1PH 220V ~ 240V/50Hz								
		R404A	1PH 220V ~ 240V/50Hz								
		R404A	1PH 220V ~ 240V/60Hz								
	卧式变频型	R404A	1PH 220V/50Hz ~ 60Hz								
	卧式接水盘型	R404A	1PH 220V ~ 240V/50Hz								
风冷	立式标准型	R404A	1PH 220V ~ 240V/50Hz								
	一体变频型	R404A	1PH 220V 50/60Hz								
	水冷	卧式变频型	R404A	1PH 220V ~ 240V/50Hz							

换热形式	压缩机品牌	电源形式	用途	制冷剂	马力 (HP)													
					1.0HP	1.5HP	2.0HP	2.5HP	3.0HP	3.5HP	4.0HP	5.0HP	6.0HP	7.0HP	8.0HP	9.0HP	10HP	11HP
风冷	博阳	1PH 220V/50Hz	冷冻冷藏	R404A														
		3HP 380V/50Hz	冷冻冷藏	R404A														
		1PH 220V/50Hz ~ 60Hz	冷冻冷藏	R404A														
		3HP 380V/50Hz ~ 60Hz	冷冻冷藏	R404A														
	松下	3HP 380V/50Hz	冷藏	R22														
			冷冻	R22/R404A														
谷轮	3HP 380V/50Hz	冷藏	R22/R404A															
		冷冻	R404A															
水冷	日立	3HP 380V/50Hz ~ 60Hz	冷冻	R404A														
	三菱	3HP 380V/50Hz ~ 60Hz	冷冻	R410A														

# 产品特点

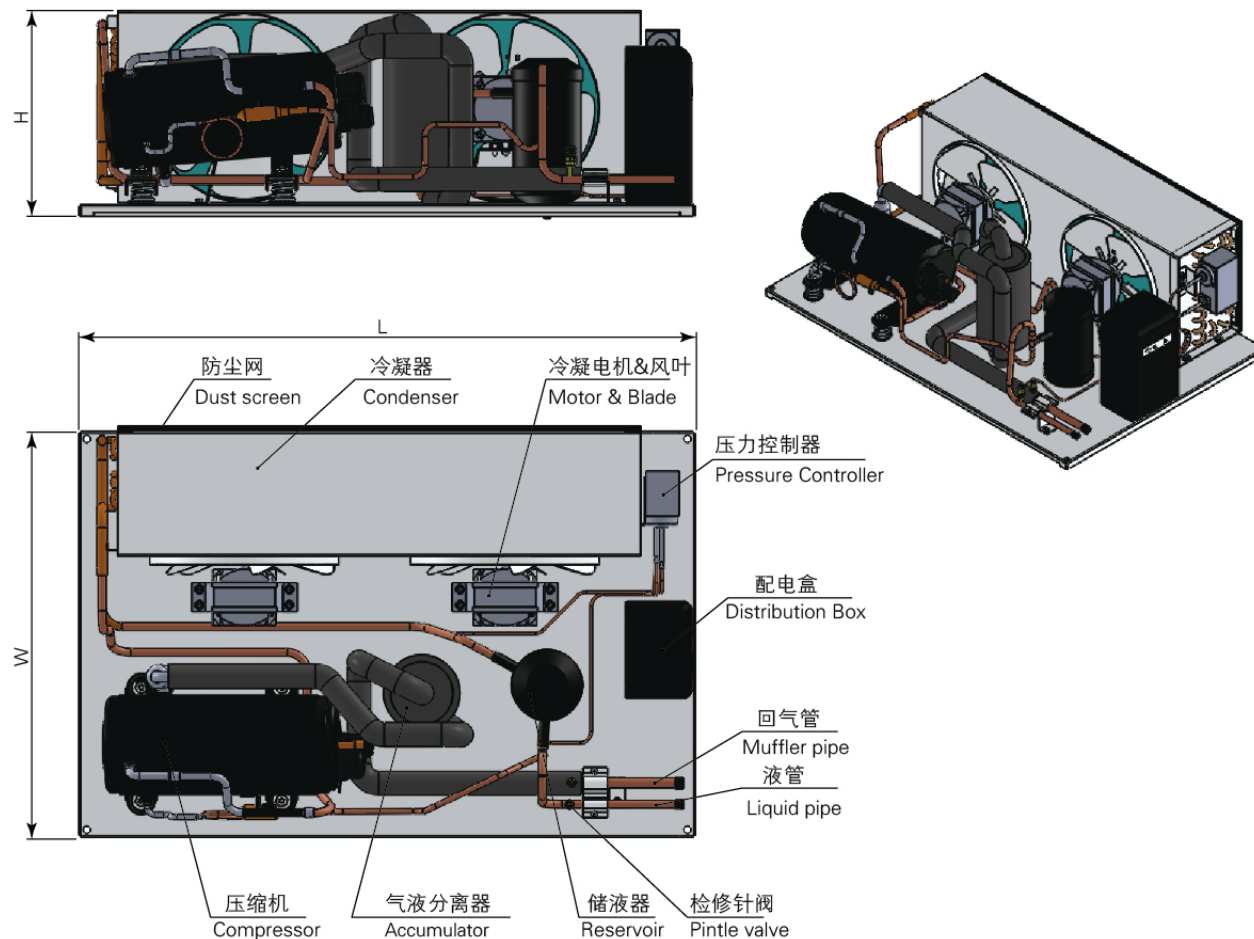
## PRODUCT FEATURES

### 卧式机组特点:

- 适用于中低温工况，可在蒸发温度-40~5℃范围内运行；
- 满足多品类制冷剂，如R290、R22、R404A等同品制冷剂；
- 满足多种电源规格，如220V/50Hz、220V/60Hz或115V/60Hz；
- 满足不同马力需求，涵盖0.75~3.0HP；
- 结构紧凑，安装简单，可提供差异化定制，安装高度可低至200mm。

### Horizontal Unit Features:

- Be suitable for MBP&LBP application, Eva. temp. of running range from -40 ~ 5 °C;
- Able to run with a variety of refrigerant, such as R290, R22, R404A, etc.;
- Able to run under a variety of power supply, such as 220V/50Hz, 220V/60Hz or 115V/60Hz, etc.;
- Able to Meet different horsepower requirements, ranging from 0.75 ~ 3.0HP;
- With Compact size, easy installing, can be customized, and the height of installing limits can be less than 200mm.



# 产品特点

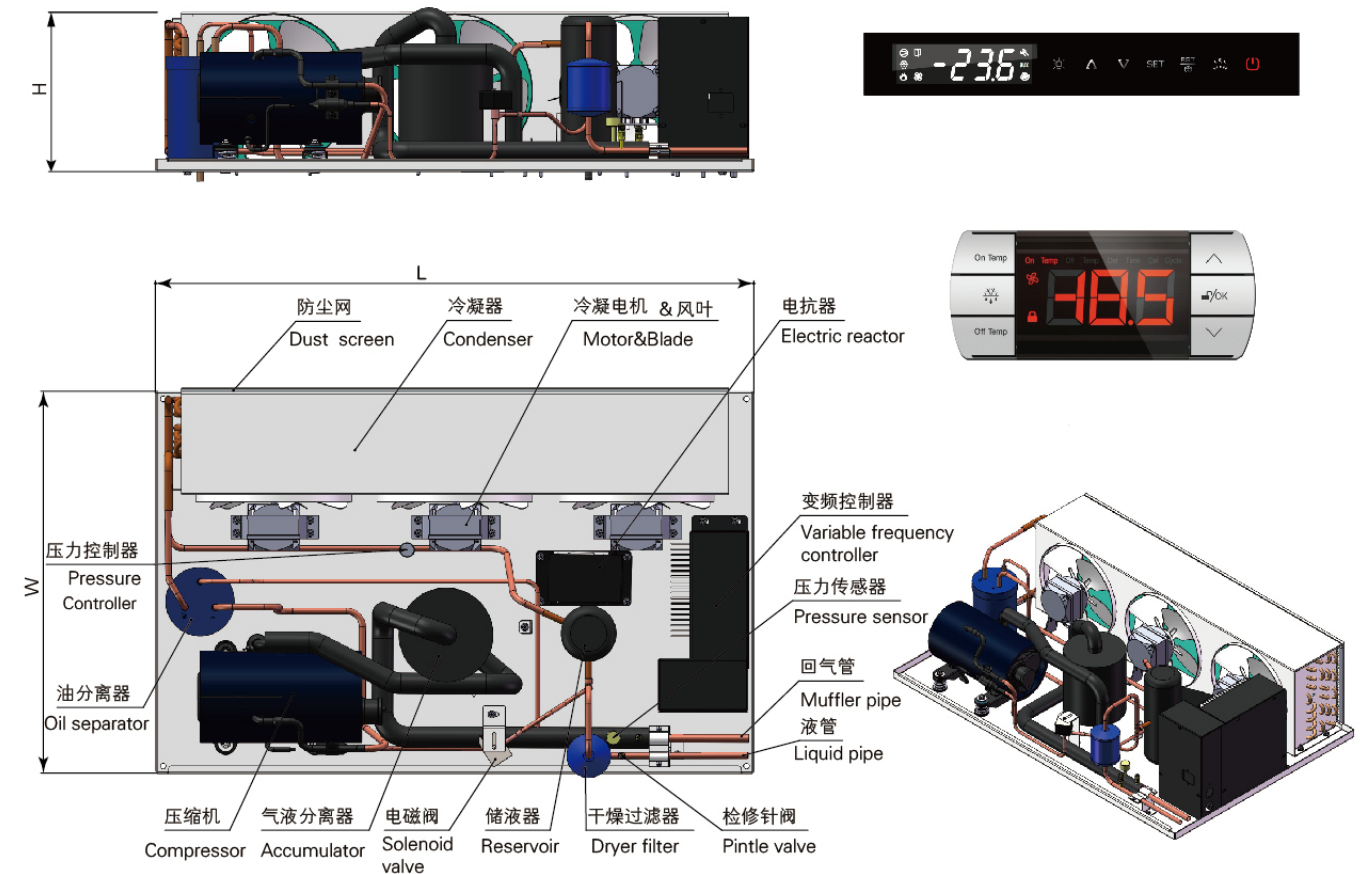
## PRODUCT FEATURES

### 变频机组特点:

- 适用于中低温工况，可在蒸发温度-40~5℃范围内运行；
- 满足多品类制冷剂，如R290、R404A等同品制冷剂；
- 快速降温，精准控温，温差范围±0.5℃；
- 高效节能，节能效果25%以上；
- 控制方案灵活，可根据目标温度变频控制或根据低压压力设定值变频控制，控制器内部参数设定开放，厂家可DIY设定；
- 满足不同应用场景，适用于一拖一或一拖多。

### Variable Frequency Unit Features:

- Be suitable for MBP&LBP application, Eva. temp. of running range from -40 ~ 5 °C;
- Able to run with a variety of refrigerant, such as R290, R404A, etc.;
- Fast cooling and temp. can be controlled precisely, temp. variations between ± 0.5 °C;
- High efficiency and energy saving efficiency can be more than 25%;
- Flexible control programme, variable frequency can be set according to target temp or low voltage setting. The parameter setting of the controller is open, and the manufacturer can set DIY;
- Able to run under a variety of applications, especially suitable for one-to-one or one-to-multi.



## 产品特点

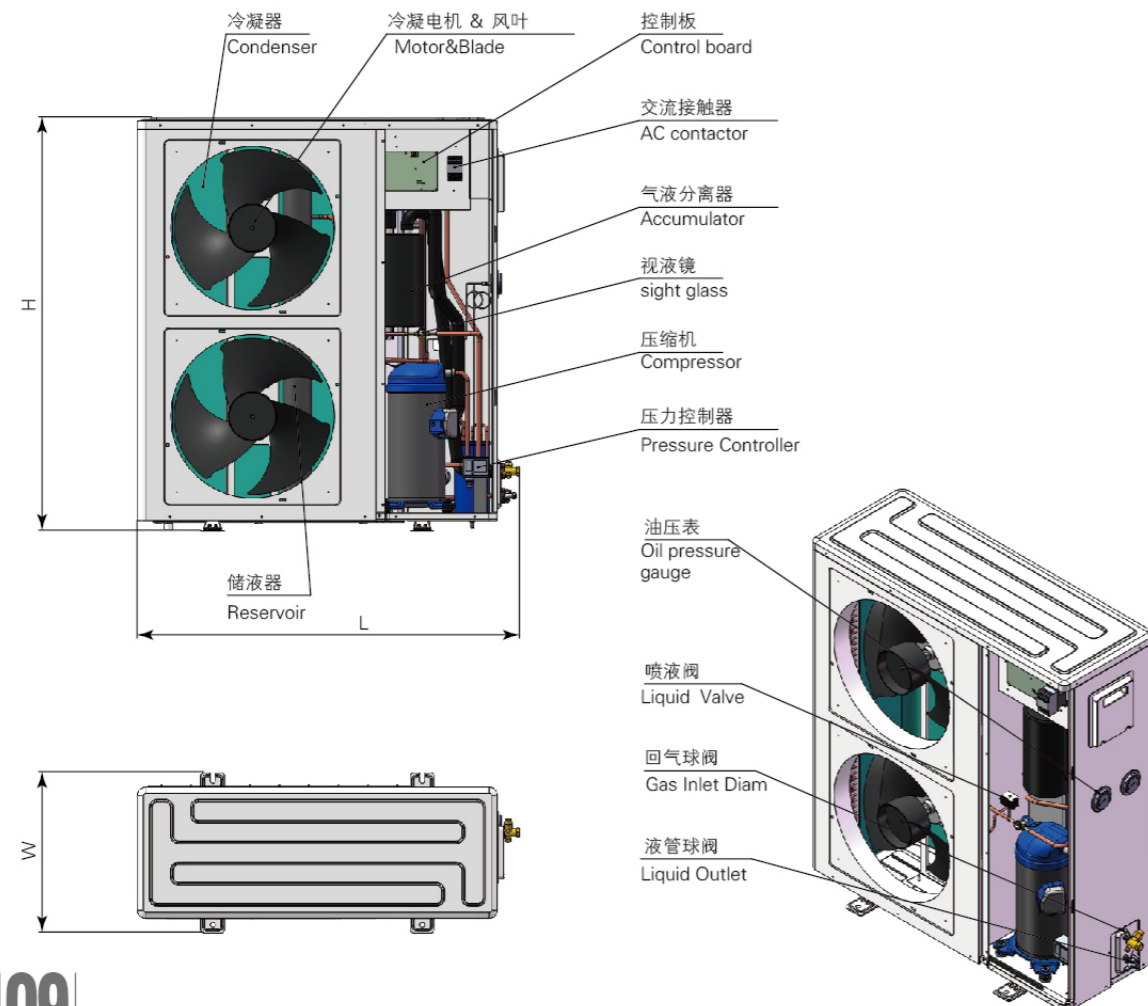
# PRODUCT FEATURES

### 箱式机组特点:

- 产品包含定频机组与变频机组，马力涵盖1~12HP；
- 满足多品牌压缩机需求，包含博阳、谷轮、松洋、日立等；
- 冷凝器优化升级，降低冷媒加注量，换热面积较市面同类产品加大20%以上，可满足48℃环温正常工作；
- 整机标配微电脑控制板、视液镜，方便终端调试；
- 可提供差异化定制。

### Outdoor Unit Features:

- Include fixed frequency unit and variable frequency unit, horse power from 1 to 12HP;
- Able to assemble with multi-brand compressors, such as BOYARD, COPELAND, SANYO, HITACHI, etc.;
- The condenser is optimized and upgraded to reduce the charging volume of refrigerant. The heat exchange area is more than 20% larger than competitive products in market, able to be run at 48 °C ambient temp.;
- The unit is equipped with microcomputer control panel and sight glass as standard, which is convenient for terminal commissioning;
- Able to be customized based on customer's requirement.



## 产品特点

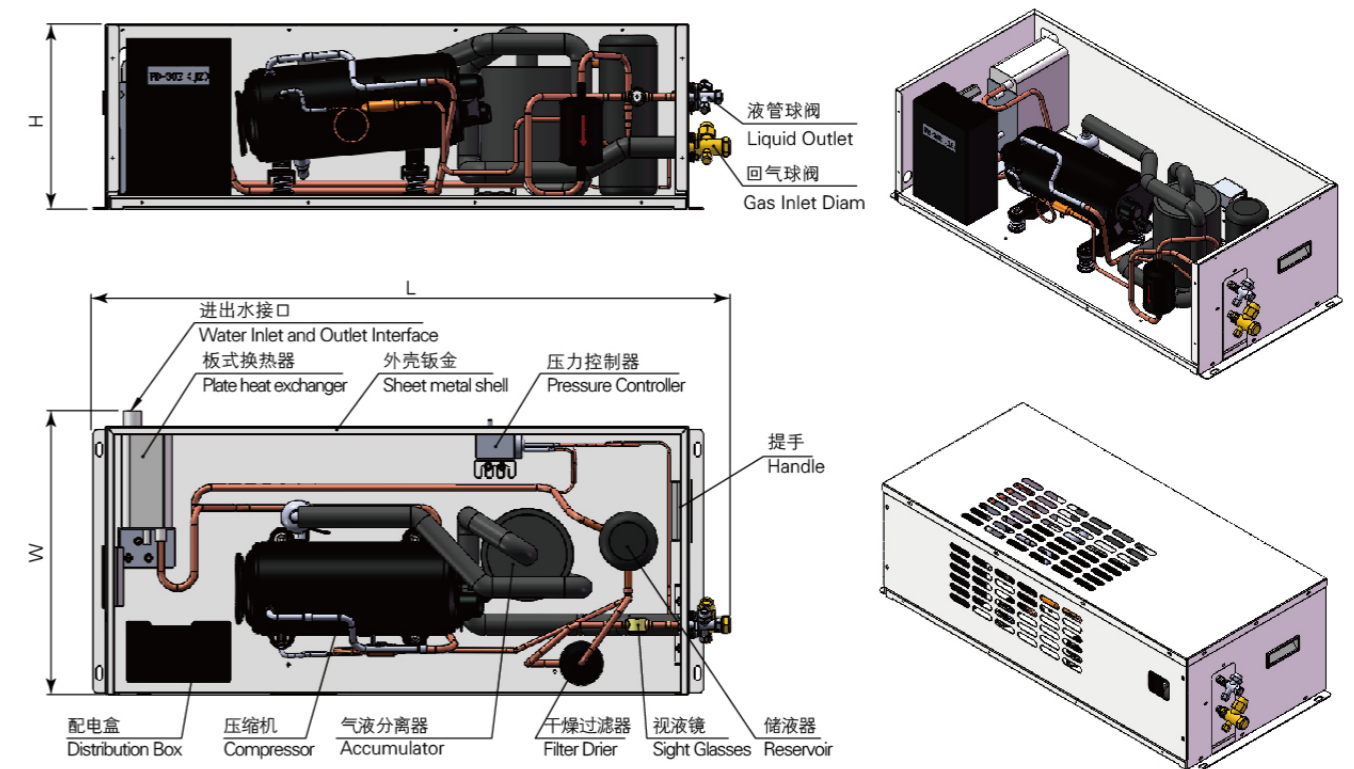
# PRODUCT FEATURES

### 水冷机组特点:

- 产品包含定频机组与变频机组，马力涵盖1~12HP；
- 适用于中低温工况，可在蒸发温度-40~5℃范围内运行；
- 制冷剂加注量小；
- 满足多品类制冷剂，如R290、R404A等同品制冷剂；
- 可以提供全封闭干冷器配套使用；
- 调试简单，只需要接水路和电线连接。

### Water-cooling Unit Features:

- Include fixed frequency unit and variable frequency unit, horse power from 1 to 12HP;
- Be suitable for MBP&LBP application, Eva. temp. of running range from -40 ~ 5 °C ;
- Charging small volume of refrigerant;
- Able to run with a variety of refrigerant, such as R290, R404A, etc.;
- Able to work together with hermetic dry cooler;
- Simple commissioning, only need to connect with water and wires.



# 产品特点

## PRODUCT FEATURES

### 一体机组特点:

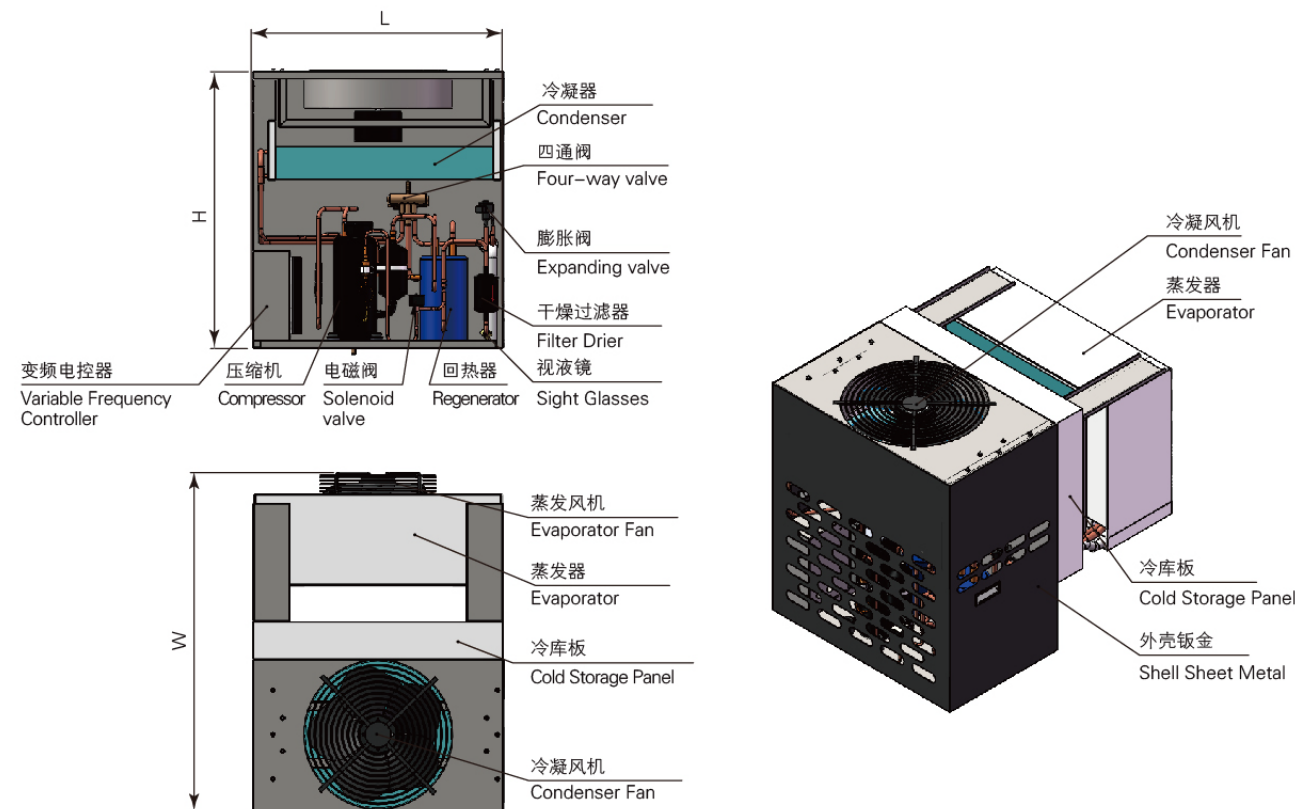
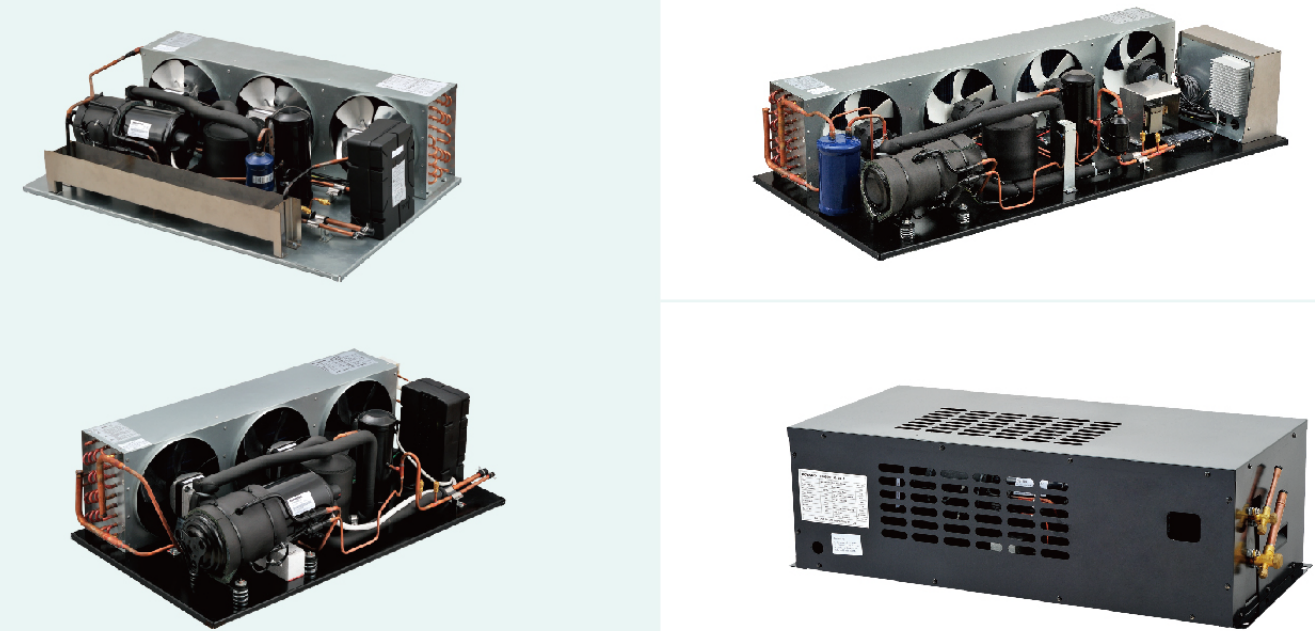
- ◇ 产品包含定频机组与变频机组，马力涵盖1~12HP;
- ◇ 安装简单，即插即用，现场安装无需焊接与充注制冷剂;
- ◇ 使用电子膨胀阀节流控制;
- ◇ 使用四通阀热气化霜，化霜方案可选择定时化霜或按需化霜;
- ◇ 冷凝水可以实现自蒸发。

### Integrated Unit Features:

- ◇ Include fixed frequency unit and variable frequency unit, horse power from 1 to 12HP;
- ◇ Easy installation, plug and play, no need welding or refrigerant charging;
- ◇ Throttling control by electronic expansion valve;
- ◇ Defrosting by four-way valve, and the defrosting scheme can be timed or done as required;
- ◇ Condensated water can be self-evaporated.

# 产品外形图

## PRODUCT OUTLINE DRAWING



# 性能参数 PERFORMANCE PARAMETER

博阳1-3HP箱式定频冷冻冷藏机组技术数据 (R404A)

Boyard 1-3HP fixed frequency freezing and refrigeration outdoor unit technical data (R404A)

机组型号 Model		BYGF-010-QXD-SEDP	BYGF-015-QXD-SEDP	BYGF-020-QXD-SEDP	BYGF-025-QXD-SEDP	BYGF-030-QXD-SEDP	BYGF-030-QXD-SMDP	
电源 Power Supply		1PH 220V/50Hz					3PH 380V 50Hz	
马力 Horsepower		1 HP	1.5 HP	2 HP	2.5 HP	3 HP	3 HP	
冷媒 Refrigerant		R404A 或等同品 R404A or equivalent						
最大充注量 Refrigerant Max. (Kg)		1.5	2.0	2.5	3.0	3.5	3.5	
蒸发温度范围 Evap.Temp(°C)		-40 ~ -5°C						
环境温度范围 Ambient Temp(°C)		0 ~ 46°C				-15 ~ 46°C		
基础配置 Basic configuration	压缩机 Compressor	QXD-16K	QXD-23K	QXD-30K	QXD-36K	TXSD456KS	TXSD456F	
	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关和低压压力开关 Diaphragm type high pressure switch and low pressure switch						
	风扇电机 Fan Motor	40W*1				65W*1		
	储液器 Reservoir	-		0.8L		2.5L		
	视液镜 Sight glass	-		3/8				
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge						
	干燥过滤器 Dryer filter	083S						
	单向阀 Check valve	Φ19*110				SR-10		
选配 Choose configuration	气液分离器 Accumulator	0.6L		1L				
	制冷电磁阀 Solenoid valve	3/8						
	曲轴加热带 Crankshaft heating belt	27W		35W				
电控 Electric control	交流接触器 AC contactor	18/01				25/01	18/01	
	控制板 Control board	相序保护和缺相保护、排气温度保护、喷液控制、冷凝风扇调速控制、故障代码报警输出等功能或风机开停控制 Functions such as phase sequence protection and phase loss protection, exhaust temperature protection, liquid spraying control, speed regulation control of condensing fan, fault code alarm output, etc Or Fan start and stop control						
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD	1/2"(12.7)			5/8"(15.88)			
	液体出口(直径) Liquid Outlet OD	1/4"(6.35)		3/8"(9.53)				
产品尺寸 Product size(mm)		900*350*610				1015*420*850		
安装尺寸 Installation dimension(mm)		500*320				580*385		
R404A 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况Test conditions: GB/T 21363-2018 环境温度 Ambient Temp:32°C 过冷度 Subcooled Temp:0°C						
	-40	530	670	880	1030	1365	1365	
	-35	700	870	1100	1280	1625	1625	
	-30	800	980	1350	1650	2060	2060	
	-25	970	1230	1550	1950	2485	2485	
	-20	1220	1500	2000	2020	3100	3100	
	-15	1550	1770	2400	2800	3550	3550	
	-10	1750	2250	2800	3500	4525	4525	
	-5	2000	2600	3150	4000	5440	5440	

博阳2-12HP箱式变频冷冻冷藏机组技术数据 (R404A)

Boyard 2-12HP variable frequency freezing and refrigeration outdoor unit technical data (R404A)

机组型号 Model		BYGF-020-QXL-SZDP	BYGF-030-QXL-SZDP	BYGF-040-QXL-SZDP	BYGF-060-HIL-SZDP	BYGF-080-HIL-SZDP	BYGF-100-SLL-SZDP	BYGF-120-SLL-SZDP
电源 Power Supply		1PH 220V 50/60 Hz			3PH 380V 50/60 Hz			
变频控制方案 Inverter control scheme		根据温控器变频控制或低压压力变频控制 Frequency conversion control according to temperature controller or low pressure frequency conversion control						
马力 Horsepower		2 HP	3 HP	4 HP	6 HP	8 HP	10HP	12HP
冷媒 Refrigerant		R404A或等同品 R404A or equivalent					R410A	
蒸发温度范围 Evap.Temp(°C)		-40 ~ -5°C						
基础配置 Basic configuration	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关 Diaphragm type high pressure switch 低压压力传感器或低压压力开关 Low Pressure Sensor or Low Pressure Switch						
	储液器 Reservoir	1.1L	1.6L	2.2L	6L		10L	
	干燥过滤器 Dryer filter	083S		084S		165S		
	视液镜 Sight glass	3/8		1/2"		5/8"		
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge						
	喷液阀 Liquid Valve	喷液电磁阀或电子膨胀阀 Liquid Injection Valve or Electronic expansion valve						
电控 Electric control	断路器 Disjuncter	D63						
	变频控制功能 Variable frequency control function	压缩机变频控制、电子膨胀阀控制、冷凝风机控制、化霜控制、高低压力保护、喷液控制、排气温度保护、电流保护和故障代码输出。Compressor frequency control, electronic expansion valve control, condensing fan control, defrosting control, high and low pressure protection, spray protection, exhaust temperature protection, current protection and fault code output.						
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD	5/8"(15.88)		3/4"(19.05)	7/8"(22.22)		1-1/8"(28.58)	
	液体出口(直径) Liquid Outlet OD	3/8"(9.53)		1/2"(12.7)		5/8"(15.88)		
产品尺寸 Product size(mm)		1015*420*850		1180*490*860	1200*490*1250		1200*490*1570	
安装尺寸 Installation dimension(mm)		580*385		640*440				
选配 Optional configuration	制冷电磁阀 Solenoid valve	3/8"(9.53)		1/2"(12.7)		5/8"(15.88)		
	油分离器 Oil separator	BLR/A-W 55833		BLR/A-W 55824			BLR/A-W 55855	BLR/A-W 55877
	气液分离器 Accumulator	1L		2.8L		3.0L		7L
	曲轴加热带Crankshaft heating belt	35W		40W			90W	
R404A 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况Test conditions: GB/T 21363-2018 环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C 吸气温度Suction temperature 18°C						
	-40	920	1365	1980	3000	4550	4950	6800
	-35	1150	1625	2460	3670	5420	6150	8280
	-30	1350	2060	3070	4500	6450	7600	10000
	-25	1650	2485	3820	5500	7670	9500	12200
	-20	2100	3100	4680	6750	9150	11600	14800
	-15	2460	3550	5650	8250	10800	14000	18000
	-10	2920	4525	6700	10000	13000	16700	21800
-5	3250	5440	7900	12300	15300	19600	26500	

松下3.5-7HP箱式定频冷藏机组技术数据 (R22)

Panasonic 3.5-7HP fixed frequency refrigeration outdoor unit technical data (R22)

机组型号 Model		BYGF-035-SXM-SMLP	BYGF-040-SXM-SMLP	BYGF-050-SXM-SMLP	BYGF-060-SXM-SMLP	BYGF-070-SXM-SMLP	
电源 Power Supply		3PH 380V 50Hz					
马力 Horsepower		3.5 HP	4 HP	5 HP	6 HP	7 HP	
冷媒 Refrigerant		R22					
蒸发温度范围 Evap.Temp(°C)		-12 ~ 10°C					
环境温度范围 Ambient Temp(°C)		-15 ~ 48°C					
基础配置 Basic configuration	压缩机 Compressor	C-SB263H8A	C-SB303H8A	C-SB373H8A	C-SB453H8A	C-SBR235H38A	
	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关 Diaphragm type high pressure switch 低压可调节压力开关 Low Pressure Adjustable Pressure Switch					
	风扇电机 Fan Motor	65W*1		65W*2		90W*2	
	储液器 Reservoir	2.5L		4L		6L	
	干燥过滤器 Dryer filter	083S		084S			
	视液镜 Sight glass	3/8		1/2			
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge					
	喷液阀 Liquid Valve	1/4					
电控 Electric control	交流接触器 AC contactor	18/01					
	控制板 Control board	相序保护和缺相保护、排气温度保护、喷液控制、冷凝风扇调速控制、故障代码报警输出等功能 Functions such as phase sequence protection and phase loss protection, exhaust temperature protection, liquid spraying control, speed regulation control of condensing fan, fault code alarm output, etc					
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD	5/8"(15.88)		3/4"(19.05)			
	液体出口(直径) Liquid Outlet OD	3/8"(9.53)		1/2"(12.7)			
产品尺寸 Product size(mm)		1015*420*850		1015*420*1250			
安装尺寸 Installation dimension(mm)		580*385					
选配 Optional configuration	油分离器 Oil separator	BLR/A-W-55833		BLR/A-W-55824			
	制冷电磁阀 Refrigeration solenoid valve	3/8		1/2			
	气液分离器 Accumulator	1L		2.8L			
	曲轴加热带Crankshaft heating belt	40W					
R22 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况Test conditions: GB/T 21363-2018 环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C 吸气温度Suction temperature 18°C					
	-10	5500	6450	8100	9700	11500	
	-5	6650	7600	9500	11800	13700	
	0	7600	9200	11100	13800	15000	
	5	9700	11600	14000	18000	19100	

松下3.5-12HP箱式定频冷冻机组技术数据 (R22)

Panasonic 3.5-12HP fixed frequency freezing outdoor unit technical data (R22)

机组型号 Model		BYGF-035-SXL-SMLP	BYGF-040-SXL-SMLP	BYGF-050-SXL-SMLP	BYGF-060-SXL-SMLP	BYGF-080-SXL-SMLP	BYGF-100-SXL-SMLP	BYGF-120-SXL-SMLP
电源 Power Supply		3PH 380V 50Hz						
马力 Horsepower		3.5 HP	4 HP	5 HP	6 HP	8 HP	10HP	12HP
冷媒 Refrigerant		R22						
蒸发温度范围 Evap.Temp(°C)		-30 ~ 5°C						
环境温度范围 Ambient Temp(°C)		-15 ~ 48°C						
基础配置 Basic configuration	压缩机 Compressor	C-SBR120H38Q	C-SBR145H38Q	C-SBR180H38Q	C-SBR205H38Q	C-SBR295H38Q	C-SBR370H38Q	C-SBR435H38Q
	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关 Diaphragm type high pressure switch 低压可调节压力开关 Low Pressure Adjustable Pressure Switch						
	风扇电机 Fan Motor	65W*1		65W*2		150W*2	200W*2	250W*2
	储液器 Reservoir	2.5L		4L		6L	10L	
	干燥过滤器 Dryer filter	083S		084S		165S		
	视液镜 Sight glass	3/8		1/2"		5/8"		
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge						
	喷液阀 Liquid Valve	喷液电磁阀或电子膨胀阀 Liquid Injection Valve or Electronic expansion valve						
电控 Electric control	交流接触器 AC contactor	18/01				25/01		
	控制板 Control board	相序保护和缺相保护、排气温度保护、喷液控制、冷凝风扇调速控制、故障代码报警输出等功能 Functions such as phase sequence protection and phase loss protection, exhaust temperature protection, liquid spraying control, speed regulation control of condensing fan, fault code alarm output, etc						
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD	5/8"(15.88)		3/4"(19.05)		7/8"(22.22)	1-1/8"(28.58)	
	液体出口(直径) Liquid Outlet OD	3/8"(9.53)		1/2"(12.7)		5/8"(15.88)		
产品尺寸 Product size(mm)		1015*420*850		1015*420*1250		1200*490*1570		
安装尺寸 Installation dimension(mm)		580*385				640*440		
选配 Optional configuration	油分离器 Oil separator	BLR/A-W 55833		BLR/A-W 55824		BLR/A-W 55855		BLR/A-W 55877
	制冷电磁阀 Refrigeration solenoid valve	3/8(9.53)		1/2(12.7)		5/8(15.88)		
	气液分离器 Accumulator	1L		2.8L		3.6L	7L	
	曲轴加热带Crankshaft heating belt	40W					90W	
R404A 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况Test conditions: GB/T 21363-2018 环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C 吸气温度Suction temperature 18°C						
	-30	2800	2950	3650	4300	6200	7350	9200
	-25	3370	3650	4600	5300	7400	9100	11100
	-20	4050	4500	5600	6450	8800	11200	13500
	-15	4800	5400	6750	7900	10500	13500	16500
	-10	5650	6450	8100	9700	12500	16100	20000
	-5	6650	7600	9500	11800	14800	18900	24200
	0	7600	9200	11100	13800	18300	23000	27100
	5	9700	11600	14000	18000	23800	29500	35000

松下4-12.5HP箱式定频冷冻机组技术数据 (R404A)

Panasonic 4-12.5HP fixed frequency freezing outdoor unit technical data (R404A)

机组型号 Model		BYGF-040-SXL-SMDP	BYGF-050-SXL-SMDP	BYGF-060-SXL-SMDP	BYGF-070-SXL-SMDP	BYGF-080-SXL-SMDP	BYGF-100-SXL-SMDP	BYGF-125-SXL-SMDP	
电源 Power Supply		3PH 380V 50Hz							
马力 Horsepower		4 HP	5 HP	6 HP	7 HP	8 HP	10 HP	12.5 HP	
冷媒 Refrigerant		R404A或等同品 R404A or equivalent							
蒸发温度范围 Evap.Temp(°C)		-45 ~ -5°C							
环境温度范围 Ambient Temp(°C)		-15 ~ 48°C							
基础配置 Basic configuration	压缩机 Compressor	中温 MBP	3CB067SAOM	3CB084SAOM	3CB100SAOM	3CB110SAOM	3CC137LAOM	3CC171LAOM	3CC205LAOM
		低温 LBP	C-SBN303L8A	C-SBN373L8A	C-SBN453L8A	3CC120SA03	3CC137SA03	3CC171SA03	3CC216SA03
	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关 Diaphragm type high pressure switch 低压可调节压力开关 Low Pressure Adjustable Pressure Switch							
	风扇电机 Fan Motor	65W*1	65W*2		90W*2	150W*2	200W*2	250W*2	
	储液器 Reservoir	2.5L	4L		6L		10L		
	干燥过滤器 Dryer filter	083S	084S			165S			
	视镜 Sight glass	3/8	1/2"			5/8"			
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge							
电控 Electric control		交流接触器 AC contactor	18/01				25/01		
		控制板 Control board	相序保护和缺相保护、排气温度保护、喷液控制、冷凝风扇调速控制、故障代码报警输出等功能 Functions such as phase sequence protection and phase loss protection, exhaust temperature protection, liquid spraying control, speed regulation control of condensing fan, fault code alarm output, etc						
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD	5/8"(15.88)	3/4"(19.05)		7/8"(22.22)		1-1/8"(28.58)		
	液体出口(直径) Liquid Outlet OD	3/8"(9.53)	1/2"(12.7)			5/8"(15.88)			
产品尺寸 Product size(mm)		1015*420*850		1015*420*1250			1200*490*1570		
安装尺寸 Installation dimension(mm)		580*385				640*440			
选配 Optional configuration	油分离器 Oil separator	BLR/A-W 55833	BLR/A-W 55824			BLR/A-W 55855		BLR/A-W 55877	
	制冷电磁阀 Refrigeration Solenoid valve	3/8"(9.53)	1/2"(12.7)			5/8"(15.88)			
	气液分离器 Accumulator	1L	2.8L		3.0L		7L		
	曲轴加热带 Crankshaft heating belt	40W			90W				
R404A 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况Test conditions: GB/T 21363-2018 环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C 吸气温度Suction temperature 18°C							
	-40	1980	2440	3000	4250	4550	4950	6800	
	-35	2460	3050	3670	5050	5420	6150	8280	
	-30	3070	3800	4500	6020	6450	7600	10000	
	-25	3820	4750	5500	7150	7670	9500	12200	
	-20	4680	5800	6750	8500	9150	11600	14800	
	-15	5650	7050	8250	10100	10800	14000	18000	
	-10	6700	8350	10000	12000	13000	16700	21800	
-5	7900	9850	12300	14200	15300	19600	26500		

谷轮3-12HP箱式定频冷藏机组技术数据 (R22)

Copeland 3-12HP fixed frequency refrigeration outdoor unit technical data (R22)

机组型号 Model		BYGF-030-ZBM-SMLP	BYGF-040-ZBM-SMLP	BYGF-050-ZBM-SMLP	BYGF-060-ZBM-SMLP	BYGF-070-ZBM-SMLP	BYGF-080-ZBM-SMLP	BYGF-100-ZBM-SMLP	BYGF-120-ZBM-SMLP	
电源 Power Supply		3PH 380V 50Hz								
马力 Horsepower		3 HP	4 HP	5 HP	6 HP	7 HP	8 HP	10HP	12HP	
冷媒 Refrigerant		R22								
蒸发温度范围 Evap.Temp(°C)		-12 ~ 10°C								
环境温度范围 Ambient Temp(°C)		-15 ~ 48°C								
基础配置 Basic configuration	压缩机 Compressor	ZB21KQ	ZB29KQ	ZB38KQ	ZB45KQ	ZB48KQ	ZB58KQ	ZB76KQ	ZB88KQ	
	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关 Diaphragm type high pressure switch 低压可调节压力开关 Low Pressure Adjustable Pressure Switch								
	风扇电机 Fan Motor	65W*1	65W*2		90W*2	150W*2	200W*2	250W*2		
	储液器 Reservoir	2.5L	4L		6L		10L			
	干燥过滤器 Dryer filter	083S	084S			165S				
	视镜 Sight glass	3/8	1/2"			5/8"				
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge								
	喷液阀 Liquid Valve	喷液电磁阀或电子膨胀阀 Liquid Injection Valve or Electronic expansion valve								
	电控 Electric control		交流接触器 AC contactor	18/01				25/01		
			控制板 Control board	相序保护和缺相保护、排气温度保护、喷液控制、冷凝风扇调速控制、故障代码报警输出等功能 Functions such as phase sequence protection and phase loss protection, exhaust temperature protection, liquid spraying control, speed regulation control of condensing fan, fault code alarm output, etc						
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD	5/8"(15.88)	3/4"(19.05)		7/8"(22.22)		1-1/8" ( 28.58)			
	液体出口(直径) Liquid Outlet OD	3/8"(9.53)	1/2"(12.7)			5/8"(15.88)				
产品尺寸 Product size(mm)		1015*420*850		1015*420*1250			1200*490*1570			
安装尺寸 Installation dimension(mm)		580*385				640*440				
选配 Optional configuration	油分离器 Oil separator	BLR/A-W 55833	BLR/A-W 55824			BLR/A-W 55855		BLR/A-W 55877		
	制冷电磁阀 Refrigeration solenoid valve	3/8"(9.53)	1/2"(12.7)			5/8"(15.88)				
	气液分离器 Accumulator	1L	2.8L		3.6L		7L			
	曲轴加热带 Crankshaft heating belt	40W			90W					
R22 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况Test conditions: GB/T 21363-2018 环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C 吸气温度Suction temperature 18°C								
	-10	4850	6600	8300	9700	10600	12800	16800	18500	
	-5	5770	7800	9800	11500	12600	18100	20200	22300	
	0	6750	9100	11500	13500	14800	17800	23700	26500	
	5	7850	10600	13300	15700	17300	20600	27600	31000	

谷轮2-13HP箱式定频冷藏机组技术数据 (R404A)

Copeland 2-13HP fixed frequency refrigeration outdoor unit technical data (R404A)

机组型号 Model		BYGF-020-ZBM-SMDP	BYGF-030-ZBM-SMDP	BYGF-040-ZBM-SMDP	BYGF-050-ZBM-SMDP	BYGF-060-ZBM-SMDP	BYGF-070-ZBM-SMDP	BYGF-080-ZBM-SMDP	BYGF-100-ZBM-SMDP	BYGF-130-ZBM-SMDP	
电源 Power Supply		3PH 380V 50Hz									
马力 Horsepower		2 HP	3 HP	4 HP	5 HP	6 HP	7 HP	8 HP	10HP	13HP	
冷媒 Refrigerant		R404A或等同品 R404A or equivalent									
蒸发温度范围 Evap.Temp(°C)		-20 ~ 10°C									
环境温度范围 Ambient Temp(°C)		-15 ~ 48°C									
基础配置 Basic configuration	压缩机 Compressor	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB76KQE	ZB95KQE	
	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关 Diaphragm type high pressure switch 低压可调节压力开关 Low Pressure Adjustable Pressure Switch									
	风扇电机 Fan Motor	65W*1			65W*2		90W*2	150W*2	200W*2	250W*2	
	储液器 Reservoir	2.5L			4L		6L		10L	10L	
	干燥过滤器 Dryer filter	083S			084S		165S				
	视镜 Sight glass	3/8			1/2"		5/8"				
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge									
	喷液阀 Liquid Valve	喷液电磁阀或电子膨胀阀 Liquid Injection Valve or Electronic expansion valve									
	曲轴加热带 Crankshaft heating belt	40W						90W			
	电控 Electric control	交流接触器 AC contactor	18/01						25/01		
控制板 Control board		相序保护和缺相保护、排气温度保护、喷液控制、冷凝风扇调速控制、故障代码报警输出等功能 Functions such as phase sequence protection and phase loss protection, exhaust temperature protection, liquid spraying control, speed regulation control of condensing fan, fault code alarm output, etc									
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD	5/8"(15.88)			3/4"(19.05)	7/8"(22.22)		1-1/8"(28.58)			
	液体出口(直径) Liquid Outlet OD	3/8"(9.53)			1/2"(12.7)		5/8"(15.88)				
产品尺寸 Product size(mm)		1015*420*850			1015*420*1250		1200*490*1570				
安装尺寸 Installation dimension(mm)		580*385						640*440			
选配 Optional configuration	油分离器 Oil separator	BLR/A-W 55833			BLR/A-W 55824		BLR/A-W 55855		BLR/A-W 55877		
	制冷电磁阀 Refrigeration solenoid valve	3/8"(9.53)			1/2"(12.7)		5/8"(15.88)				
	气液分离器 Accumulator	1L			2.8L	3.0L	7L				
R404A 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况 Test conditions: GB/T 21363-2018 环境温度 Ambient Temp: 32°C 过冷度 Sub-cooling 0°C 吸气温度 Suction temperature 18°C									
	-20	2250	3500	4800	6050	7100	7750	9000	12200	14800	
	-15	2770	4250	5750	7250	8500	9350	11100	15000	18300	
	-10	3360	5050	6850	8650	10100	11100	13300	17500	22000	
	-5	4000	6000	8100	10200	12000	13100	18800	21000	26000	
	0	4750	7000	9500	12000	14000	15400	18500	24700	30200	
	5	5500	8150	11000	13900	16400	18000	21500	28700	35100	

谷轮2-12HP箱式定频冷冻机组技术数据 (R404A)

Copeland 2-12HP fixed frequency freezing outdoor unit technical data (R404A)

机组型号 Model		BYGF-020-ZSL-SMDP	BYGF-030-ZSL-SMDP	BYGF-040-ZSL-SMDP	BYGF-050-ZSL-SMDP	BYGF-060-ZSL-SMDP	BYGF-070-ZSL-SMDP	BYGF-075-ZFL-SMDP	BYGF-100-ZFL-SMDP	BYGF-120-ZFL-SMDP	
电源 Power Supply		3PH 380V 50Hz									
马力 Horsepower		2 HP	3 HP	4 HP	5 HP	6 HP	7 HP	7.5 HP	10HP	12HP	
冷媒 Refrigerant		R404A或等同品 R404A or equivalent									
蒸发温度范围 Evap.Temp(°C)		-40 ~ -5°C									
环境温度范围 Ambient Temp(°C)		-15 ~ 48°C									
基础配置 Basic configuration	压缩机 Compressor	ZSI Series	ZSI 06KQE	ZSI 09KQE	ZSI 11KQE	ZSI 15KQE	ZSI 18KQE	ZSI 21KQE	/	/	/
		ZF Series	ZF 06KQE	ZF 09 KQE	ZF 13 KQE	ZF 15 KQE	ZF 18 KQE	/	ZF 25KQE	ZF 34KQE	ZF 41KQE
	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关 Diaphragm type high pressure switch 低压可调节压力开关 Low Pressure Adjustable Pressure Switch									
	风扇电机 Fan Motor	65W*1			65W*2		90W*2	200W*2	250W*2		
	储液器 Reservoir	2.5L			4L		6L		10L	10L	
	干燥过滤器 Dryer filter	083S			084S		165S				
	视镜 Sight glass	3/8			1/2"		5/8"				
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge									
	喷液阀 Liquid Valve	喷液电磁阀或电子膨胀阀 Liquid Injection Valve or Electronic expansion valve									
	曲轴加热带 Crankshaft heating belt	40W						90W			
电控 Electric control	交流接触器 AC contactor	18/01						25/01			
	控制板 Control board	相序保护和缺相保护、排气温度保护、喷液控制、冷凝风扇调速控制、故障代码报警输出等功能 Functions such as phase sequence protection and phase loss protection, exhaust temperature protection, liquid spraying control, speed regulation control of condensing fan, fault code alarm output, etc									
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD	5/8"(15.88)			3/4"(19.05)	7/8"(22.22)		1-1/8"(28.58)			
	液体出口(直径) Liquid Outlet OD	3/8"(9.53)			1/2"(12.7)		5/8"(15.88)				
产品尺寸 Product size(mm)		1015*420*850			1015*420*1250		1200*490*1250		1200*490*1570		
安装尺寸 Installation dimension(mm)		580*385						640*440			
选配 Optional configuration	油分离器 Oil separator	BLR/A-W 55833			BLR/A-W 55824		BLR/A-W 55855		BLR/A-W 55877		
	制冷电磁阀 Refrigeration solenoid valve	3/8"(9.53)			1/2"(12.7)		5/8"(15.88)				
	气液分离器 Accumulator	1L			2.8L	3.6L	7L				
R404A 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况 Test conditions: GB/T 21363-2018 环境温度 Ambient Temp: 32°C 过冷度 Sub-cooling 0°C 吸气温度 Suction temperature 18°C									
	-40	1120	1520	2170	2640	3250	/	4050	5250	6650	
	-35	1400	1900	2720	3350	4100	4550	5000	6650	8400	
	-30	1710	2530	3650	4500	5420	6050	6750	9000	11100	
	-25	2070	2800	4100	5050	6050	6700	7500	1000	12300	
	-20	2250	3370	4800	6050	7100	7750	8730	12200	14300	
	-15	2770	3900	5750	7250	8500	9350	10700	15000	17700	
	-10	3360	4750	6850	8650	10100	11100	12900	17500	21300	
-5	4000	5600	8100	10200	12000	13100	18200	21000	25200		

博阳2-12HP水冷变频机组技术数据 (R404A、R290、R410A)

Boyard 2-12HP variable frequency water-cooling unit technical data (R404A、R290、R410A)

机组型号 Model	BYGF-020-QHL-TZDP	BYGF-030-QHL-TZDP	BYGF-040-QHL-TZDP	BYGF-060-HIL-TZDP	BYGF-080-HIL-TZDP	BYGF-100-SLL-TZDP	BYGF-120-SLL-TZDP
电源 Power Supply	1PH 220V 50/60 Hz			3PH 380V 50/60 Hz			
变频控制方案 Inverter control scheme	根据温控器变频控制或低压力变频控制 Frequency conversion control according to temperature controller or low pressure frequency conversion control						
马力 Horsepower	2 HP	3 HP	4 HP	6 HP	8 HP	10HP	12HP
冷媒 Refrigerant	R404A或R290 R404A or R290					R410A	
蒸发温度范围 Evap.Temp(°C)	-40~-5°C						
基础配置 Basic configuration	压力控制器 Pressure Controller(Mpa)	膜片式高压压力开关 Diaphragm type high pressure switch 低压压力传感器或低压力压力开关 Low Pressure Sensor or Low Pressure Switch					
	储液器 Reservoir	1.1L	1.6L	2.2L	6L	10L	
	干燥过滤器 Dryer filter	083S		084S		165S	
	视液镜 Sight glass	3/8		1/2"		5/8"	
	油压表 Oil pressure gauge	高压压力油压表+低压压力油压表 High pressure oil pressure gauge+Low pressure oil pressure gauge					
电控 Electric control	交流接触器 AC contactor 18/01						
	控制板 Control board 相序保护, 缺水保护, 电机热保护, 冷凝风扇调速, 故障代码输出等功能。 Phase sequence protection, water shortage protection, motor thermal protection, condensing fan speed regulation, fault code output and other functions.						
进出水接口尺寸 Water Inlet and Outlet Interface Size	DN20	DN32				DN40	
产品尺寸 Product size(mm)	990*420*280			850*550*660			
安装尺寸 Installation dimension(mm)	970*335			640*530			
选配 Optional configuration	制冷电磁阀 Solenoid valve	3/8"(9.53)		1/2"(12.7)		5/8"(15.88)	
	油分离器 Oil separator	BLR/A-W 55833		BLR/A-W 55824		BLR/A-W 55855	BLR/A-W 55877
	气液分离器 Accumulator	1L		2.8L		3.4L	7L
	曲轴加热带 Crankshaft heating belt	35W		40W		90W	
R404A 制冷量(W) Capacity	蒸发温度(°C) Evap Temp	测试工况 Test conditions: GB/T 21363-2018 进水温度 Water inlet temperature 30°C 出水温度 Water outlet temperature 35°C 过冷度 Sub-cooling 0°C 吸气温度 Suction temperature 18°C					
	-40	920	1365	1980	3000	4550	6800
	-35	1150	1625	2460	3670	5420	8280
	-30	1350	2060	3070	4500	6450	10000
	-25	1680	2530	3900	5600	7820	12400
	-20	2200	3250	4900	7100	9600	15500
	-15	2600	3750	6000	8750	11500	19100
	-10	3100	4850	7150	10700	14000	23400
	-5	3500	5850	8500	13300	26500	28500
R290 制冷量(W) Capacity	-40	780	/	/	/	/	/
	-35	980	/	/	/	/	/
	-30	1150	/	/	/	/	/
	-25	1430	/	/	/	/	/
	-20	1880	2700	4160	6050	/	/
	-15	2200	3150	5100	7400	/	/
-10	2630	4250	6080	9100	/	/	
-5	2980	5000	7200	11400	/	/	

博阳2-12HP干冷器机组技术数据

Boyard 2-12HP dry-cooler unit technical data

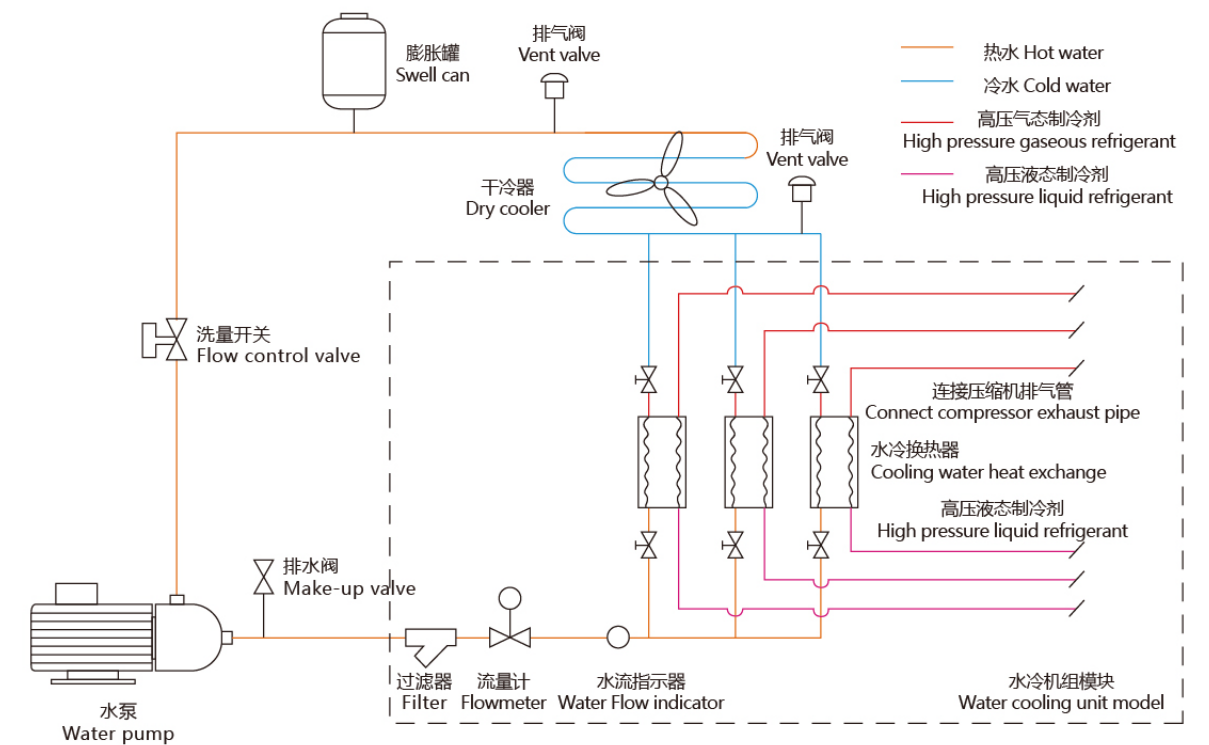
机组型号 Model	BYGF-020-TEP	BYGF-030-TEP	BYGF-040-TEP	BYGF-070-TEP	BYGF-100-TEP	BYGF-120-TEP
电源 Power Supply	1PH 220V/50Hz / 3PH 380/50Hz					
换热介质 Heat Transferring Medium	纯水或乙二醇 Pure Water or Glycol					
换热量 Heat Exchange Amount	5.5KW	8KW	11KW	19KW	28KW	32KW
环境温度范围 Ambient Temp(°C)	0~43°C					
水流量 Water Discharge m³/h	2.5		3.5		5	6
电控 Electric control	交流接触器 AC contactor 18/01					
	控制板 Control board 相序保护, 缺水保护, 电机热保护, 冷凝风扇调速, 故障代码输出等功能。 Phase sequence protection, water shortage protection, motor thermal protection, condensing fan speed regulation, fault code output and other functions.					
进出水接口尺寸 Water Inlet and Outlet Interface Size	DN20	DN32			DN40	

工作原理: 制冷剂经过压缩机压缩后排出高温高压的气体, 通过水冷换热器进行换热后变成高压液态制冷剂, 通过节流装置进入蒸发器进行制冷。这个过程产生的高温热水通过干式冷却器和外部环境进行换热, 通过风扇加强干冷器内热水和外部环境换热, 降温后的冷却水从新进入水冷换热器和制冷剂进行换热。

Working principle: After the refrigerant is compressed by the compressor, the high temperature and high pressure gas is discharged, and the heat is exchanged by the water-cooled heat exchanger into the high pressure liquid refrigerant, and the cooling device enters the evaporator for refrigeration. The high temperature hot water generated by this process is exchanged through the dry cooler and the external environment, and the hot water in the dry cooler and the external environment are exchanged through the fan, and the cooling water enters the water-cooled heat exchanger and the refrigerant for heat exchange.

干冷器系统原理图

Schematic diagram of dry cooler system



博阳1-4HP一体变频机组技术数据 (R404A)

Boyard 1-4HP variable frequency integrated unit technical data (R404A)

机组型号 Model	BYGY-010-QXL-REDP	BYGY-020-QXL-REDP	BYGY-030-QXL-REDP	BYGY-040-QXL-REDP		
名义输入功率① Nominal Input (W)	1150	1700	2650	3500		
电源 Power Supply	220V 50/60 Hz					
冷媒 Refrigerant	R404A 或等同品					
最大运行电流② Max Running Current (A)	6.2	10.5	16.5	23.0		
蒸发温度范围 Evap.Temp(°C)	-40 ~ -5°C					
环境温度范围 Ambient Temp(°C)	0 ~ 43°C					
压缩机(型号) Compressor (Model)	JXSD150Z312	KXSD203Z312	KXSD300Z312	KXSD456Z312		
冷凝器 Condenser	规格 Style	铜管翅片冷凝器或微通道冷凝器 Copper tube fin condenser or microchannel condenser				
	风扇电机 Fan Motor	风扇直径*数量 (mm) Diameter * Quantity	φ380*1	φ380*1	φ380*1	φ380*2
		风量(m³/hr) Air Flow	2670	2670	2670	5340
蒸发器 Evaporator	规格 Style	铜管翅片冷凝器 Copper tube fin condenser				
	风扇电机 Fan Motor	风扇直径*数量 (mm) Diameter * Quantity	φ300*1	φ300*1	φ300*1	φ300*2
		风量(m³/hr) Air Flow	1800	1800	1800	3600
外形尺寸 (mm) Out Dimension	长(mm) Length	680			870	
	宽(mm) Width	890	930			
	高(mm) Height	720				
制冷量 (W) Capacity	蒸发温度(°C) Evap Temp	环境温度 Ambient Temp:32°C				
	-40	580	925	1365	1980	
	-35	710	1185	1625	2460	
	-30	890	1440	2060	3070	
	-25	1125	1805	2485	3820	
	-20	1390	2110	3100	4680	
	-15	1660	2575	3550	5650	
	-10	1950	3090	4525	6700	
接线容量 Wiring Capacity	漏电 保护器 Leak Protector	额定电流(A) Rated Current	16	20	25	32
		泄漏电流(mA) Leak Current	30	30	30	30
	线径 (mm²) Diameter	L≤10m	2.0	4.0	4.0	4.0
		10 < L≤20m	2.5	6.0	6.0	6.0
	20 < L≤30m	2.5	6.0	6.0	6.0	

\*注:①表示名义制冷量的测试工况;②表示最大运行电流的测试工况。①Refrigerating capacity test condition;②The biggest running current test condition.

测试工况(GB/T 21363-2018) Test Condition

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 STANDARD TEST CONDITIONS	32°C	-7°C	220V ~ 50/60Hz
②	最大运行 OVERLOAD RUNNING	43°C	0°C	198V ~ 50/60Hz

卧式50Hz机组 ( R22 )

Horizontal Condensing Unit 50Hz(R22)

机组型号 Model	HQHL-13EB01	HQHL-16EB01	HQHL-23EBP01	HQHL-30EBP01	HQHL-36EBP01		
名义输入功率① Nominal Input (W)	730	950	1320	1700	1900		
电源 Power Supply	1PH 220V 50Hz						
冷媒 Refrigerant	R22						
最大充注量 Refrigerant Max. (Kg)	1.2	1.5	2.0	3.0	3.0		
启动电流 Start-Up Current (A)	20	25	30	40	42		
最大运行电流② Max Running Current (A)	4.5	6.0	8.0	10.0	12.0		
蒸发温度范围 Evap.Temp(°C)	-40~-5°C						
环境温度范围 Ambient Temp(°C)	0 ~ 43°C(当环境温度低于10°C时, 需要增加冷凝温度控制) ( The environmental temperature under 10°C, Increase the condensation temperature control )						
压缩机(型号) Compressor (Model)	QHL-13E	QHL-16E	QHL-23E	QHL-30E	QHL-36E		
冷凝器 Condenser	规格 Style	4排4.5环	4排4.5环	5排4.5环	5排4.5环		
	风扇电机 Fan Motor	风扇直径*数量 (mm) Diameter * Quantity	φ230*2 (10W*2)	φ230*2 (16W*2)	φ230*2 (16W*2)	φ230*3 (16W*3)	
		风量(m³/hr) Air Flow	680*2	730*2	730*2	730*3	
接管(mm) Pipe	吸气口(直径)Gas Inlet Diam OD	φ12.7(1/2)					
	液体出口(直径) Liquid Outlet OD	φ9.53(3/8)					
外形尺寸 (mm) Out Dimension	长(mm) Length	680	680	790	940	1145	
	宽(mm) Width	485	485	520	520	520	
	高(mm) Height	263					
成品重量 (Kg) Weight	29	30	37.5	46.5	50.5		
制冷量 (W) Capacity	蒸发温度(°C) Evap Temp	环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C					
	-40	370	480	640	800	940	
	-35	515	610	830	1005	1205	
	-30	630	725	930	1265	1460	
	-25	725	900	1175	1460	1640	
	-20	890	1180	1420	1880	2090	
	-15	1105	1375	1700	2180	2550	
	-10	1335	1545	2150	2635	3100	
接线容量 Wiring Capacity	漏电 保护器 Leak Protector	额定电流(A) Rated Current	16	16	16	20	25
		泄漏电流(mA) Leak Current	30	30	30	30	30
	线径 (mm²) Diameter	L≤10m	2.5	2.5	2.5	4.0	4.0
		10 < L≤20m	2.5	2.5	2.5	6.0	6.0
	20 < L≤30m	2.5	2.5	2.5	6.0	6.0	

\*注:①表示名义制冷量的测试工况;②表示最大运行电流的测试工况。①Refrigerating capacity test condition;②The biggest running current test condition.

测试工况(GB/T 21363-2018) Test Condition

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 STANDARD TEST CONDITIONS	32°C	18°C	-7°C	220V ~ 50Hz
②	最大运行 OVERLOAD RUNNING	43°C	18°C	0°C	198V ~ 50Hz

卧式50Hz机组 ( R404A )

Horizontal Condensing Unit 50Hz(R404A)

机组型号 Model	HQHD-13KBP	HQHD-16KBP	HQSD-203KBP	HQHD-23KBP	HQHD-30KBP	HQSD-329KBP20	HQHD-36KBP	HQSD-456KBP		
名义输入功率① Nominal Input (W)	820	1000	1175	1540	1910	2010	2130	2800		
电源 Power Supply	1PH 220 ~ 240V 50Hz									
冷媒 Refrigerant	R404A或等同品 R404A or Equivalent									
最大充注量 Refrigerant Max. (Kg)	1.2	1.5	2.0	2.0	3.0	3.0	3.0	3.5		
启动电流 Start-Up Current (A)	20	27	30	38	42	38	50	65		
最大运行电流② Max Running Current (A)	5.0	6.2	8.0	9.2	11.0	12.0	12.5	16.0		
蒸发温度范围 Evap.Temp(°C)	-40 ~ -5°C									
环境温度范围 Ambient Temp(°C)	0 ~ 43°C(当环境温度低于10°C时, 需要增加冷凝温度控制) ( The environmental temperature under 10°C, Increase the condensation temperature control )									
压缩机(型号) Compressor (Model)	QHD-13K	QHD-16K	KHSD203KS	QHD-23K	QHD-30K	THSD329KS	QHD-36K	THSD456KS		
冷凝器 Condenser	规格 Style 铜管翅片冷凝器或微通道冷凝器 Copper tube fin condenser or microchannel condenser									
	风扇电机 Fan Motor	风扇直径*数量 (mm) Diameter * Quantity								
		风量(m³/hr) Air Flow								
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD $\phi$ 12.7(1/2")									
	液体出口(直径) Liquid Outlet OD $\phi$ 9.53(3/8")									
外形尺寸 (mm) Out Dimension	长(mm) Length 680 680 790 790 940 1145 1145 1350									
	宽(mm) Width 485 520 540									
	高(mm) Height 263									
成品重量 (Kg) Weight 29 31 35.5 37.5 47 53.3 50.5 60										
制冷量 (W) Capacity	蒸发温度(°C) Evap Temp 环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C									
	-40	390	515	580	660	860	920	970	1365	
	-35	535	670	710	855	1065	1145	1240	1625	
	-30	655	775	890	960	1295	1390	1500	2060	
	-25	735	925	1125	1210	1520	1610	1850	2450	
	-20	920	1170	1390	1465	1925	2065	2200	3050	
	-15	1105	1495	1660	1740	2285	2440	2690	3320	
	-10	1385	1675	1950	2200	2710	2900	3225	4450	
-5	1650	1910	2280	2535	3030	3450	3850	5200		
接线容量 Wiring Capacity	漏电保护器 Leak Protector	额定电流(A) Rated Current	16	16	20	20	20	20	25	
		泄漏电流(mA) Leak Current	30	30	30	30	30	30	30	
	线径 (mm²) Diameter	L≤10m	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0
		10 < L≤20m	2.5	2.5	2.5	2.5	6.0	6.0	6.0	6.0
	20 < L≤30m	2.5	2.5	2.5	2.5	6.0	6.0	6.0	6.0	

\*注:①表示名义制冷量的测试工况;②表示最大运行电流的测试工况。①Refrigerating capacity test condition;②The biggest running current test condition.

测试工况(GB/T 21363-2018) Test Condition

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 STANDARD TEST CONDITIONS	32°C	18°C	-7°C	220V ~ 50Hz
②	最大运行 OVERLOAD RUNNING	43°C	18°C	0°C	198V ~ 50Hz

卧式50Hz机组 ( R290 )

Horizontal Condensing Unit 50Hz(R290)

机组型号 Model	HQHP-16KBI	HQHP-23KBI	HQHP-33KBI		
电源 Power Supply	1PH 220 ~ 240V 50Hz				
冷媒 Refrigerant	R290				
最大充注量 Refrigerant Max. (g)	400	600	900		
蒸发温度范围 Evap.Temp(°C)	-40 ~ -5°C				
环境温度范围 Ambient Temp(°C)	10 ~ 43°C(当环境温度低于10°C时, 需要增加冷凝温度控制) ( The environmental temperature under 10°C, Increase the condensation temperature control )				
压缩机(型号) Compressor (Model)	KHP164KS	SHP236KS	THSP329KS		
冷凝器 Condenser	规格 Style 铜管翅片冷凝器或微通道冷凝器 Copper tube fin condenser or microchannel condenser				
	风扇电机 Fan Motor	风扇直径*数量 (mm) Diameter * Quantity			
	风量(m³/hr) Air Flow				
接管(mm) Pipe	吸气口(直径) Gas Inlet Diam OD $\phi$ 9.53(3/8" )		$\phi$ 12.7(1/2")		
	液体出口(直径) Liquid Outlet OD 6.35(1/4")		7.94(5/16")		
外形尺寸 (mm) Out Dimension	长(mm) Length 680 790 940				
	宽(mm) Width 485 520 540				
	高(mm) Height 251 263				
制冷量 (W) Capacity	蒸发温度(°C) Evap Temp 环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C				
	-40	440	570	790	
	-35	570	740	980	
	-30	660	830	1200	
	-25	785	1040	1380	
	-20	995	1260	1780	
	-15	1270	1500	2100	
	-10	1420	1900	2500	
-5	1630	2200	3000		
接线容量 Wiring Capacity	漏电保护器 Leak Protector	额定电流(A) Rated Current	16	20	20
		泄漏电流(mA) Leak Current	30	30	30
	线径 (mm²) Diameter	L≤10m	2.5	2.5	4.0
10 < L≤20m		2.5	2.5	6.0	
20 < L≤30m		2.5	2.5	6.0	

\*注:①表示名义制冷量的测试工况;②表示最大运行电流的测试工况。①Refrigerating capacity test condition;②The biggest running current test condition.

卧式60Hz机组 (R404A)

Horizontal Condensing Unit 60Hz(R404A)

机组型号 Model	HQHD-135YBI01	HQHD-164YBI01	HQHD-236YBI01	HQHD-307YBI01	HQHD-357YBI01	HQHD-203TBI	HQHD-236TBI		
名义输入功率① Nominal Input (W)	1020	1130	1740	2100	2640	1500	1740		
电源 Power Supply	1PH 220V 60Hz				1PH 115V 60Hz				
冷媒 Refrigerant	R404A或等物品 R404A or Equivalent								
最大充注量 Refrigerant Max. (Kg)	1.5	2.0	2.5	3.0	3.0	2.5	3.0		
启动电流 Start-Up Current (A)	26	30	40	52	60	68	75		
最大运行电流② Max Running Current (A)	5.5	6.5	9.5	12	14.5	15	18		
蒸发温度范围 Evap.Temp(°C)	-40 ~ -5°C								
环境温度范围 Ambient Temp(°C)	0 ~ 43°C(当环境温度低于10°C时, 需要增加冷凝温度控制) (The environmental temperature under 10°C, Increase the condensation temperature control)								
压缩机(型号) Compressor (Model)	KHD135YS	KHD164YS	SHD236YS	THD307YS	THD357YS	KHSD203TS	SHD236TS		
冷凝器 Condenser	规格 Style 铜管翅片冷凝器或微通道冷凝器 Copper tube fin condenser or microchannel condenser								
	风扇电机 Fan Motor	风扇直径*数量 (mm) Diameter * Quantity	φ 230*2 (16W*2)	230*2 (16W*2)	φ 230*3 (16W*3)	φ 230*3 (16W*3)	φ 230*4 (16W*4)	φ 230*2 (16W*2)	φ 230*3 (16W*3)
		风量(m³/hr) Air Flow	750*2	750*2	750*3	750*3	750*4	750*2	750*3
接管(mm) Pipe	吸气口(直径)Gas Inlet Diam OD	φ 12.7(1/2")							
	液体出口(直径) Liquid Outlet OD	φ 9.53(3/8")							
外形尺寸 (mm) Out Dimension	长(mm) Length	680	790	940	1145	1350	790	940	
	宽(mm) Width	520				540	520		
	高(mm) Height	251							
成品重量 (Kg) Weight		32	34	42	53	60	38	42	
制冷量 (W) Capacity	蒸发温度(°C) Evap Temp	环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C							
	-40	500	560	795	1000	1240	680	795	
	-35	650	860	985	1280	1480	850	985	
	-30	750	855	1200	1500	1880	1030	1200	
	-25	900	1080	1400	1770	2250	1200	1400	
	-20	1135	1335	1780	2280	2780	1530	1780	
	-15	1450	1600	2100	2800	3000	1800	2100	
	-10	1625	1870	2500	3350	4050	2150	2500	
-5	1850	2250	3000	4000	4750	2580	3000		
接线容量 Wiring Capacity	漏电 保护器 Leak Protector	额定电流(A) Rated Current	16	16	20	20	25	32	32
		泄漏电流(mA) Leak Current	30	30	30	30	30	30	30
	线径 (mm²) Diameter	L ≤ 10m	2.5	2.5	4.0	4.0	4.0	4.0	4.0
		10 < L ≤ 20m	2.5	2.5	6.0	6.0	6.0	6.0	8.0
	20 < L ≤ 30m	2.5	2.5	6.0	6.0	6.0	6.0	8.0	

\*注:①表示名义制冷量的测试工况;②表示最大运行电流的测试工况。①Refrigerating capacity test condition;②The biggest running current test condition.

测试工况(GB/T 21363-2018) Test Condition

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 STANDARD TEST CONDITIONS	32°C	18°C	-7°C	220V ~ 60Hz or 115 ~ 60Hz
②	最大运行 OVERLOAD RUNNING	43°C	18°C	0°C	198V ~ 60Hz or 100 ~ 60Hz

卧式变频机组 (R404A)

Horizontal Inverter Condensing Unit(R404A)

机组型号 Model	HQSD-210KBI40	HQSD-285KBI40	HQSD-360KBI40	HQSD-460KBI40	HQSD-540KBI40		
名义输入功率① Nominal Input (W)	1200	1550	1950	2550	2890		
电源 Power Supply	220V 50/60 Hz						
冷媒 Refrigerant	R404A或等物品 R404A or Equivalent						
最大充注量 Refrigerant Max. (Kg)	1.8	2.5	3.5	3.5	4.5		
最大运行电流② Max Running Current (A)	6	10.5	13.5	16.5	20.0		
蒸发温度范围 Evap.Temp(°C)	-40 ~ -5°C						
环境温度范围 Ambient Temp(°C)	10 ~ 43°C						
压缩机(型号) Compressor (Model)	JHSD150Z312	KHSD203Z312	KHSD300Z312	KHSD300Z312	THSD456Z312		
冷凝器 Condenser	规格 Style 铜管翅片冷凝器或微通道冷凝器 Copper tube fin condenser or microchannel condenser						
	风扇电机 Fan Motor	风扇直径*数量 (mm) Diameter * Quantity	φ 230*2 (EC风机)	φ 230*3 (EC风机)	φ 230*3 (EC风机)	φ 230*4 (EC风机)	φ 254*4 (EC风机)
		风量(m³/hr) Air Flow	730*2	730*3	730*3	730*4	840*4
接管(mm) Pipe	吸气口(直径)Gas Inlet Diam OD	φ 12.7(1/2")			φ 15.88(5/8")		
	液体出口(直径) Liquid Outlet OD	φ 9.53(3/8")					
外形尺寸 (mm) Out Dimension	长(mm) Length	790	940	1145	1350	1350	
	宽(mm) Width	600	600	600	600	600	
	高(mm) Height	251				300	
成品重量 (Kg) Weight		33.5	47	53	62	73	
制冷量 (W) Capacity	蒸发温度(°C) Evap Temp	环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C					
	-40	590	840	990	1320	1320	
	-35	720	1040	1260	1570	1700	
	-30	910	1250	1480	2000	2150	
	-25	1150	1500	1750	2360	2600	
	-20	1410	1890	2250	2960	3240	
	-15	1700	2240	2750	3200	3700	
	-10	2000	2650	3300	4300	4720	
-5	2320	2950	3930	5050	5600		
接线容量 Wiring Capacity	漏电 保护器 Leak Protector	额定电流(A) Rated Current	16	20	20	25	32
		泄漏电流(mA) Leak Current	30	30	30	30	30
	线径 (mm²) Diameter	L ≤ 10m	2.0	4.0	4.0	4.0	4.0
		10 < L ≤ 20m	2.5	6.0	6.0	6.0	6.0
	20 < L ≤ 30m	2.5	6.0	6.0	6.0	6.0	

\*注:①表示名义制冷量的测试工况;②表示最大运行电流的测试工况。①Refrigerating capacity test condition;②The biggest running current test condition.

测试工况(GB/T 21363-2018) Test Condition

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 STANDARD TEST CONDITIONS	32°C	18°C	-7°C	220V ~ 50Hz
②	最大运行 OVERLOAD RUNNING	43°C	18°C	0°C	198V ~ 50Hz

卧式接水盘50Hz机组 ( R404A )

Horizontal Condensing Unit With Boiling Plate 50Hz(R404A)

机组型号 Model	HQHD-16KBI31	HQHD-23KBI31	HQHD-30KBI31	HQHD-36KBI31	HQSD-456KBI31	
名义输入功率① Nominal Input (W)	920	1320	1700	1900	2340	
电源 Power Supply	1PH 220 ~ 240V 50Hz					
冷媒 Refrigerant	R404A或等同品 R404A or Equivalent					
最大充注量 Refrigerant Max. (Kg)	1.5	2.0	3.0	3.0	3.5	
启动电流 Start-Up Current (A)	27	38	42	50	65	
最大运行电流② Max Running Current (A)	6.2	9.2	11.0	12.5	16.0	
蒸发温度范围 Evap.Temp(°C)	-40~-5°C					
环境温度范围 Ambient Temp(°C)	0~43°C(当环境温度低于10°C时, 需要增加冷凝温度控制) (The environmental temperature under 10°C, Increase the condensation temperature control)					
压缩机(型号) Compressor (Model)	QHD-16K	QHD-23K	QHD-30K	QHD-36K	THSD456KS	
冷凝器 Condenser	规格 Style 铜管翅片冷凝器或微通道冷凝器 Copper tube fin condenser or microchannel condenser					
	风扇电机 Fan Motor	风扇直径*数量 (mm) Diameter * Quantity	风量(m³/hr) Air Flow			
接管(mm) Pipe	吸气口(直径)Gas Inlet Diam OD	φ 12.7(1/2")			φ 15.88	
外形尺寸 (mm) Out Dimension	长(mm) Length	620	790	940	1145	
	宽(mm) Width	550	620		610	
	高(mm) Height	300	263			
制冷量 (W) Capacity	蒸发温度(°C) Evap Temp	环境温度 Ambient Temp:32°C 过冷度 Sub-cooling 0°C				
	-40	515	660	860	970	
	-35	670	855	1065	1240	
	-30	775	960	1295	1500	
	-25	925	1210	1520	1850	
	-20	1170	1465	1925	2200	
	-15	1495	1740	2285	2690	
-10	1675	2200	2710	3225		
-5	1910	2535	3030	3850		
接线容量 Wiring Capacity	漏电 保护器 Leak Protector	额定电流(A) Rated Current	16	16	20	20
		泄漏电流(mA) Leak Current	30	30	30	30
	线径 (mm²) Diameter	L ≤ 10m	2.5	2.5	4.0	4.0
		10 < L ≤ 20m	2.5	2.5	6.0	6.0
20 < L ≤ 30m	2.5	2.5	6.0	6.0		

\*注:①表示名义制冷量的测试工况;②表示最大运行电流的测试工况。①Refrigerating capacity test condition;②The biggest running current test condition.

测试工况(GB/T 21363-2018) Test Condition

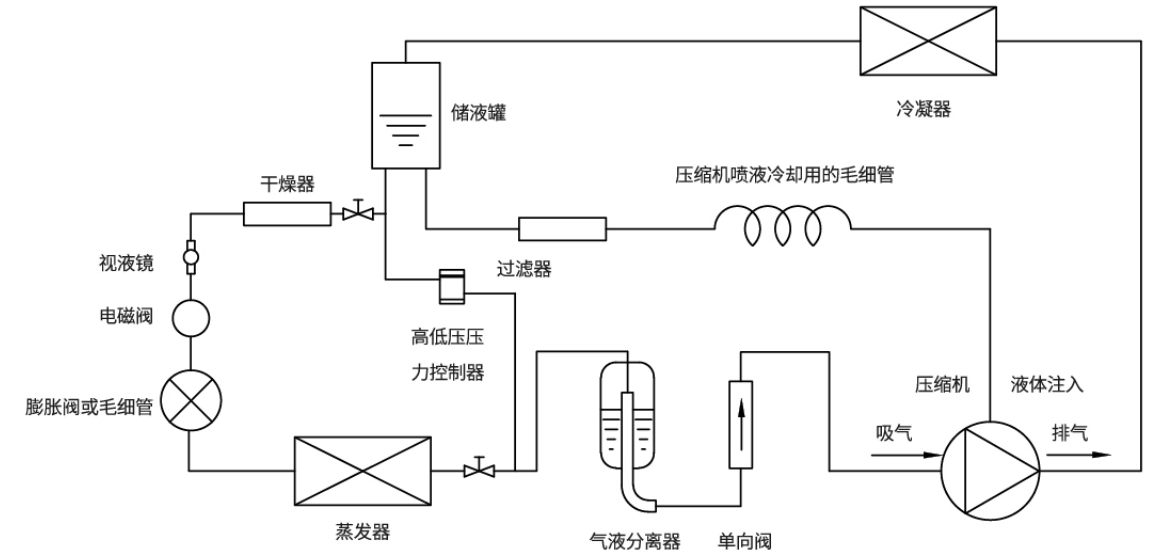
编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 Standard test conditions	32°C	5°C	-23°C	220V ~ 50Hz
②	最大运行 OVERLOAD RUNNING	43°C	18°C	0°C	198V ~ 50Hz

产品原理图

PRODUCT SCHEMATIC DIAGRAM

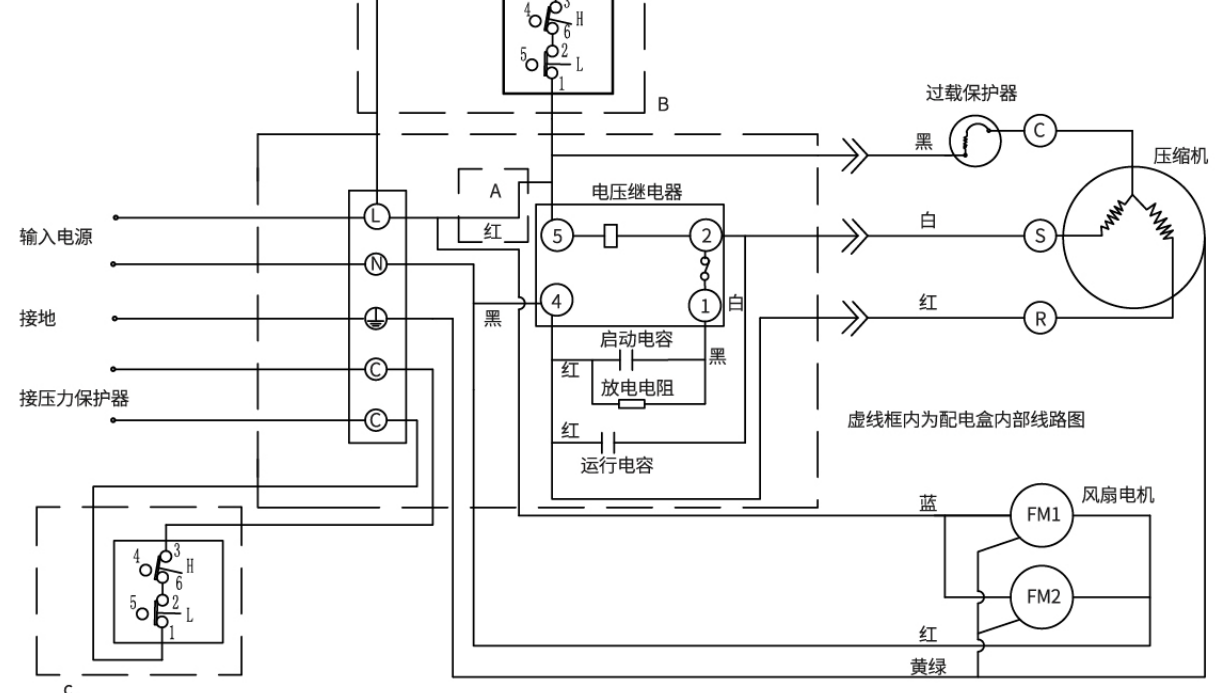
制冷系统原理图

Schematic Diagram Of Refrigeration System



电气原理图

Electrical Schematic Diagram



注:  
一、安装机械式高低压力开关(高压压力值和低压压力值可调)  
1、输入功率≤1.5Kw, 按B电路接线, 无A线;  
2、输入功率>1.5Kw, 按C电路接线, 有A线;  
二、使用针式压控(压力值不可调)  
1、按C电路接线, 有A线;  
三、不安装高低压力开关  
1、按A电路接线, 无B、C电路。