



西麦柯(广东)  
制冷科技股份有限公司

Xi Maike(Guangdong) Refrigeration Technology Co.,Ltd



2022

机组类

产品技术手册

Pruduct catalog



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## 公司简介

广州西麦柯制冷通用设备有限公司是一家专门从事制冷设备研发和制造的专业性的工厂。公司拥有经验丰富、技术先进的研发团队，瞄准行业的发展不断开发创新。公司具有先进的生产资源，包括管片式换热器生产设备、钣金生产设备、冷风机装配线及机组装配线。为了确保产品质量，公司建立了严格的产品质量管理体系，从原材料到生产的每个环节直至最后成品，都进行严格层层把关。

公司的主导产品包括管片式冷凝器、各种冷风机、制冷压缩冷凝机组等，广泛应用于宾馆、饭店、超市、食品、卫生、医药、农业等行业，产品遍布全国各地及远销越南、泰国、巴基斯坦、澳大利亚、南非等海外国家。

## Company Introduction

Guangzhou Ximaik Refrigeration General Equipment Co., Ltd. is a professional factory specializing in the research and development and manufacture of refrigeration equipment. The company has an experienced and technologically advanced R&D team, aiming at the development of the market and constantly developing and innovating. The company has advanced production resources, including tube-fin heat exchanger processing equipment, sheet metal processing equipment, cooler assembly line and condensing unit assembly line. In order to ensure product quality, the company has established a strict product quality management system, from raw materials to production of each link to the final product, are strict layer by layer checks.

The company's leading products include air condensers, various air coolers, refrigeration units and condensing units, etc. They are widely used in hotels, restaurants, supermarkets, food, health, medicine, agriculture and other industries. The products are sold all over the china and in Vietnam, Thailand, Pakistan, Australia, South Africa and other overseas countries.



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## 产品索引 Product Index

产品系列 Series of products	图片 Picture	概述 Describe	页码 page
<b>WM系列整体式库用冷冻机</b> WM series monoblock unit		中温 (0°C) :0.75~3HP, 可用于8-60m3冷库 低温 (-18°C) :1-3.5HP, 可用于5-30m3冷库 MT (0°C) :0.75-3HP, apply to 8-60m3 cold room LT (-18°C) :1-3.5HP, apply to 5-30m3 cold room	P01
<b>HX系列海鲜冷水机</b> HX series seafood chiller		适用水温5-26°C, 名义功率1.5HP-5HP Applicable water temperature 5-26°C, nominal power 1.5Hp-5HP	P06
<b>BUW-A系列涡旋压缩机紧凑型立式箱式冷凝机组</b> BUW-A series compact box-type unit with scroll compressor		采用艾默生涡旋压缩机, 侧出风立式箱型结构, 6极外转子风机。 中温 (ZB) :2-10HP; 低温 (ZSI) :2-7HP带喷液 Adopt scroll compressor of Emerson MT (ZB) :2-10HP; LT (ZSI) :2-7HP with DTC	P09
<b>BUW-B系列涡旋压缩机卧式箱式冷凝机组</b> BUW-B series horizontal box-type unit with scroll compressor		采用艾默生涡旋压缩机, 顶出风卧式箱型结构 中温 (ZB) :2-25HP; 低温 (ZSI) :2-7HP带喷液; 低温 (ZFI) :6-18HP带喷气增焓 Adopt scroll compressor of Emerson MT (ZB) :2-25HP; LT (ZSI) :2-7HP with DTC; LT (ZFI) :6-18HP with EVI	P16
<b>GU系列涡旋压缩机箱式冷凝机组</b> GU series box-type unit with scroll compressor		主要针对冷库应用而设计的, 采用艾默生或丹佛斯涡旋压缩机。空调型式的机箱, 低噪音风机。 中温 (MLZ或ZB) :2-7HP; 低温 (ZSI) :2-7HP带喷液 Adopt scroll compressor of Emerson or Danfoss MT (MLZ or ZB) :2-7HP; LT (ZSI) :2-7HP with DTC;	P26
<b>KCU/VCU系列丹佛斯涡旋箱式冷凝机组</b> KCU/VCU series box-type unit with Danfoss scroll compressor		主要针对商超应用而设计的, 采用空调型机箱, 低噪音风机。 丹佛斯涡旋定频或直流变频压缩机, 定频:2HP-7HP; 变频:2HP-8HP, 频率从30-100HZ。 Adopt fixed frequency or variable frequency scroll compressor of Danfoss. Fixed frequency : 2HP-7HP, Variable frequency: 2HP-8HP, 30-100HZ	P34

产品系列 Series of products	图片 Picture	概述 Describe	页码 page
<b>BUB系列半封闭压缩机卧式箱式冷凝机组</b> BUB series horizontal box-type unit with semi-hermetic compressor		采用比泽尔或富豪半封闭压缩机, 顶出风卧式箱型结构。中温:3-30HP, 低温:3-34HP; Adopt semi-hermetic compressor with Bitzer or Frascold. MT:3-30HP; LT:3-34HP	P39
<b>PU系列立式箱式冷凝机组</b> PU series vertical box-type Condensing unit		采用立式箱型结构, 高风圈的冷凝器, 风机侧装。压缩机采用艾默生涡旋, 比泽尔或富豪半封闭压缩机, 可满足中温及低温冷库的应用。 Adopt scroll compressor of Emerson and semi-hermetic compressor of Bitzer or Frascold.	P53
<b>HCU系列半封闭压缩机风冷冷凝机组</b> HCU series open-type air-cooled Condensing unit with semi-hermetic compressor		采用比泽尔或富豪半封闭压缩机, 高风圈型风冷冷凝器设计。高温:2-35HP; 中温:2-40HP; 低温:2-44HP; 双级速冻:5-30HP; Adopt semi-hermetic compressor of Bitzer or Frascold. HT:2-35HP; MT:2-40HP; LT:4-44HP; Two Stage:5-30HP	P63
<b>OUBS系列半封闭压缩机水冷冷凝机组</b> OUBS series water-cooled Condensing unit with semi-hermetic compressor		采用比泽尔或富豪半封闭压缩机, 水冷冷凝方式。 中温:12-50HP; 低温:9-44HP; 双级速冻:5-30HP; Adopt semi-hermetic compressor with Bitzer or Frascold, water-cooled condenser. MT:12-50HP; LT:9-44HP; Two Stage:5-30HP	P77
<b>XRW系列莱富康螺杆水冷机组</b> XRW series water-cooled Condensing unit with Refcom screw compressor		采用莱富康SW3系列螺杆压缩机 中温:50-160HP单机机组及并联机组; 低温:50-200HP单机机组及并联机组; Adopt SW3 series screw compressor with Refcom, water-cooled condenser. MT:50-160HP single unit and parallel unit; LT:50-200HP single unit and parallel unit;	P90
<b>XBW系列比泽尔低温螺杆水冷机组</b> XRW series water-cooled Condensing unit with Bitzer screw compressor		采用比泽尔HSN系列低温螺杆压缩机 50-160HP单机机组及并联机组; Adopt HSN series screw compressor with Bitzer, water-cooled condenser. LT:50-160HP single unit and parallel unit;	P101
<b>冷凝机组选型说明</b> Selection guide for condensing units			P107





## WM系列整体式库用冷冻机 WM series monoblock unit

### 1、产品概述 / Product description:

本公司开发的冷库用的一体机组是 将冷库制冷系统所需要的压缩机、冷凝器、蒸发器、各种阀门及控制系统等设计成一个整体紧凑的结构 可直接用于冷库的制冷。  
The monoblock unit developed by our company is to design compressor, condenser, evaporator, valves and control systems needed for refrigeration system of refrigeration storage as a whole compact structure, which can be directly used for refrigeration of cold room.

- 1 产品结构采用壁挂式, 机组安装于库体的侧板上。  
The product structure adopts wall hanging type, and the unit is installed on the side panel of the storehouse body.
- 2 有中温和低温两种机型, 中温机型主要满足 0~10°C 的冷库使用, 比如保鲜库; 低温机型主要满足 -15~-18°C 或 -18~-23°C 的冷库使用, 比如低温冷藏库。  
There are two types of units, medium temperature and low temperature. Medium temperature unit mainly meets the use of cold room at 0-10°C, such as fresh storage. The low temperature unit mainly meets the use of cold storage at -15~-18°C or -18~-23°C, such as frozen storage.
- 3 主机采用 Secop 活塞式压缩机 (1.5HP 以下) 及 Emerson 涡旋式压缩机 (2HP 以上)。  
The compressors adopts SECOP piston compressor (below 1.5HP) and Emerson scroll compressor (above 2HP).
- 4 采用热气旁通除霜, 除霜效果好、库温回升小。  
With hot gas bypass defrosting, the defrosting effect is good and the warehouse temperature rises slightly.
- 5 具有冷凝水的回收利用功能, 可有效降低冷凝温度, 提升机组运行效率。  
It has the function of recovery and utilization of condensate water, which can effectively reduce condensation temperature and improve unit operation efficiency.
- 6 全自动化的智能控制, 具有库温设置及控制、除霜设置及控制、系统运行保护等控制功能。  
Fully automatic intelligent control, with warehouse temperature setting and control, defrost setting and control, system operation protection functions.
- 7 极为简易的安装方式, 只需要在库板上开孔, 将机组嵌入接上电源即可使用。  
Very simple installation method, only need to open a hole on the board of the cold room, inset the unit and switch on the power supply can be used.

### 2、产品型号说明 / Model Explanation:

#### WM 075 M Y S



## WM 系列整体式库用冷冻机 series monoblock unit





### 3. 主要技术参数 / Technical data:

#### 1. 中温机组

##### Medium Temp. Unit

型号 Model	WM075MYS	WM100MYS	WM150MYS	WM200MYT	WM250MYT	WM300MYT							
电源 Power Supply	1P/220V/50Hz			3P/380V/50Hz									
适用温度 Apply Temp.	0°C ~ 10°C												
机组功率 Power (kw)	0.86	1.2	1.72	1.9	2.5	2.9							
额定电流 Current (A)	4.8	6.9	9.1	4.1	6.2	6.4							
最大电流 Max. I (A)	6.5	8.9	12.5	6.9	7.8	9.8							
制冷剂 Refrigerant	R404A	R404A	R404A	R404A	R404A	R404A							
除霜方式 Defrost	热气 Gas	热气 Gas	热气 Gas	热气 Gas	热气 Gas	热气 Gas							
机组重量 Weight(kg)	56	79	86	108	127	131							
制冷量及库容积 Ref.Capacity and Cold Storage Volume													
Tc°C	Ta°C	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>
10°C	25	1950	17	2870	36	3980	43	5180	68	6380	85	7650	100
	32	1780	14	2610	32	3580	38	4670	54	5820	75	6990	90
	43	1460	10	2110	18	2800	30	3590	42	4650	54	5570	74
5°C	25	1690	13	2460	23	3430	35	4430	50	5470	70	6570	85
	32	1550	10	2240	20	3080	31	3980	43	4980	62	5980	75
	43	1260	8	1810	15	2410	23	3020	32	3940	40	4720	55
0°C	25	1460	10	2100	18	2930	30	3760	43	4670	55	5610	70
	32	1330	8	1910	15	2630	25	3360	40	4240	50	5090	62
	43	1090	6	1540	12	2060	18	2500	24	3320	34	3980	40

备注:1) 表中Tc为库房温度、Ta为环境温度。2) 库容积是基于库体保温100mm的聚氨酯, 进货温度<-10°C、日进货量10%、压缩机工作时间18h。

Remark:1) In the table, Tc is the warehouse temp. and Ta is the environment temp. 2) The storage volume is based on polyurethane with 100 mm Insulation board, Purchase Temp. is <-10°C, the daily turnover is 10%, and the working time of the compressor is 18 hours every day.

#### 2. 低温机组

##### Low Temp. Unit

型号 Model	WM100LYS	WM150LYS	WM250LYT	WM300LYT	WM400LYT						
电源 Power Supply	1P/220V/50Hz			3P/380V/50Hz							
适用温度 Apply Temp.	-15°C~-20°C										
机组功率 Power (KW)	0.82	1.32	1.92	2.57	2.97						
额定电流 Current (A)	4.5	7.4	4.4	5.8	6.6						
最大电流 Max. I (A)	6.1	10.1	6.6	8.5	9.3						
制冷剂 Refrigerant	R404A	R404A	R404A	R404A	R404A						
除霜方式 Defrost	热气 Gas	热气 Gas	热气 Gas	热气 Gas	热气 Gas						
机组重量 Weight (kg)	62	84	110	129	137						
制冷量及库容积 Ref.Capacity and Cold Storage Volume											
Tc°C	Ta°C	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>
-15°C	25	1060	6	1570	12	2240	18	2920	28	3900	40
	32	950	5	1400	9	2000	15	2610	24	3510	32
	43	750	3.5	1060	6	/	/	/	/	/	/
-18°C	25	960	5.5	1420	10	2040	15	2650	23	3560	34
	32	870	4.5	1260	8	1820	14	2370	20	3200	28
	43	680	3.5	950	5	/	/	/	/	/	/
-20°C	25	870	4	1280	8.5	/	/	/	/	/	/
	32	780	3.5	1140	7	/	/	/	/	/	/
	43	610	3	860	4	/	/	/	/	/	/

备注:1) 表中Tc为库房温度、Ta为环境温度。2) 库容积是基于库体保温100mm的聚氨酯, 进货温度<-10°C、日进货量10%、压缩机工作时间18h。

Remark:1) In the table, Tc is the warehouse temp. and Ta is the environment temp. 2) The storage volume is based on polyurethane with 100 mm Insulation board, Purchase Temp. is <-10°C, the daily turnover is 10%, and the working time of the compressor is 18 hours every day.

型号 Model	WM200KYT	WM300KYT	WM350KYT				
电源 Power Supply	3P/380V/50Hz						
适用温度 Apply Temp.	-18°C ~ -23°C						
机组功率 Power (KW)	1.9	2.6	3.0				
额定电流 Current (A)	3.4	3.8	4.6				
最大电流 Max.I (A)	5.7	6.7	7.5				
制冷剂 Refrigerant	R404A	R404A	R404A				
除霜方式 Defrost	热气 Gas	热气 Gas	热气 Gas				
机组重量 Weight (kg)	108	124	134				
制冷量及库容积 Ref. Capacity and Cold Storage Volume							
Tc°C	Ta°C	W	m <sup>3</sup>	W	m <sup>3</sup>	W	m <sup>3</sup>
-18°C	25	1820	15	2620	26	3180	36
	32	1620	12	2290	22	2920	32
	43	1210	7.5	1690	10	2340	22
-20°C	25	1710	13	2460	23	2970	32
	32	1520	11	2140	18	2730	26
	43	1130	9	1580	13	2230	24
-23°C	25	1550	10	2220	18	2660	28
	32	1380	9	1920	15	2450	23
	43	1000	8	1400	11	1990	20

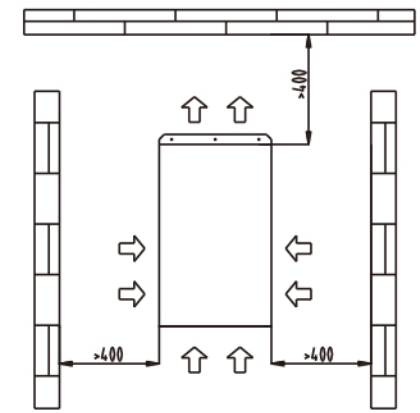
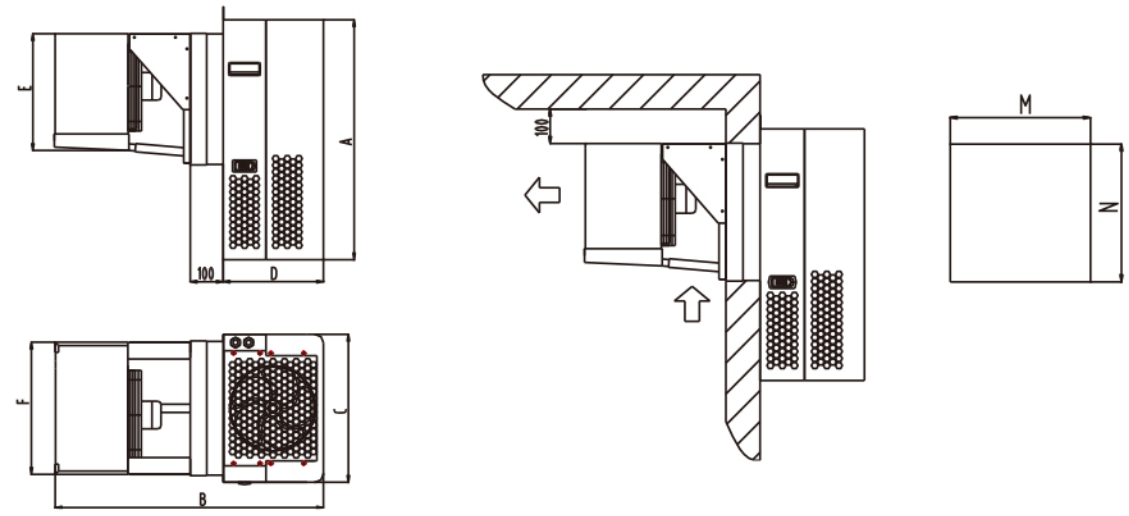
备注:1) 表中Tc为库房温度、Ta为环境温度。2) 库容积是基于库体保温100mm的聚氨酯, 进货温度<-10°C、日进货量10%、压缩机工作时间18h。

Remark:1) In the table, Tc is the warehouse temp. and Ta is the environment temp. 2) The storage volume is based on polyurethane with 100 mm Insulation board, Purchase Temp. is <-10°C, the daily turnover is 10%, and the working time of the compressor is 18 hours every day.



4、外形及安装尺寸 / Outline and installation dimension:

型号 Model	A	B	C	D	E	F	M	N
WM075MYS	730	816	450	305	355	402	415	405
WM100MYS	730	816	710	305	355	662	675	405
WM150MYS	730	816	710	305	355	662	675	405
WM200MYT	915	960	730	355	445	662	695	505
WM250MYT	915	960	930	355	445	862	895	505
WM300MYT	915	960	930	355	445	862	895	505
WM100LYS	730	816	450	305	355	402	415	405
WM150LYS	730	816	710	305	355	662	675	405
WM250LYT	915	960	730	355	445	662	695	505
WM300LYT	915	960	930	355	445	862	895	505
WM400LYT	915	960	930	355	445	862	895	505
WM200KYT	915	960	730	355	445	662	695	505
WM300KYT	915	960	930	355	445	862	895	505
WM350KYT	915	960	930	355	445	862	895	505



**HX** 系列海鲜冷水机  
Series Seafood Chiller





# HX 系列海鲜冷水机

## HX Series Seafood Chiller

### 1、产品概述 / Product description:

本公司所开发的HX系列海鲜水池用的冷水机组,将冷凝器、钛炮蒸发器、各种阀件及控制系统等设计成一个整体紧凑的结构,结构外型美观精致。可直接用于海鲜类水产品养殖等领域。  
The HX series of seafood chiller developed by our factory, which designed into an overall compact structure with a beautiful and exquisite structure. It's including the condenser, titanium gun evaporator, various valves and control systems. Which can be directly used in fields such as seafood farming.

- ① 产品可采用壁挂与立式, 机组安装于地台与墙体侧面上。  
The product can be wall-mounted or vertical, and the unit is installed on the ground and the side of the wall.of the storehouse body.
- ② 产品可冷暖水温调节, 水温可调5~40度之间恒温。  
The product can adjust the temperature of cold and warm water, and the water temperature can be adjusted between 5 and 40 degrees.
- ③ 产品全自动化智能控制, 具有水温设置与控制, 恒温设置及系统运行保护等控制功能。  
The product is fully automated and intelligently controlled, with control functions such as water temperature setting and control, constant temperature setting and system operation protection.

### 2、产品型号说明 / Model Explanation:

**HX 150 S**

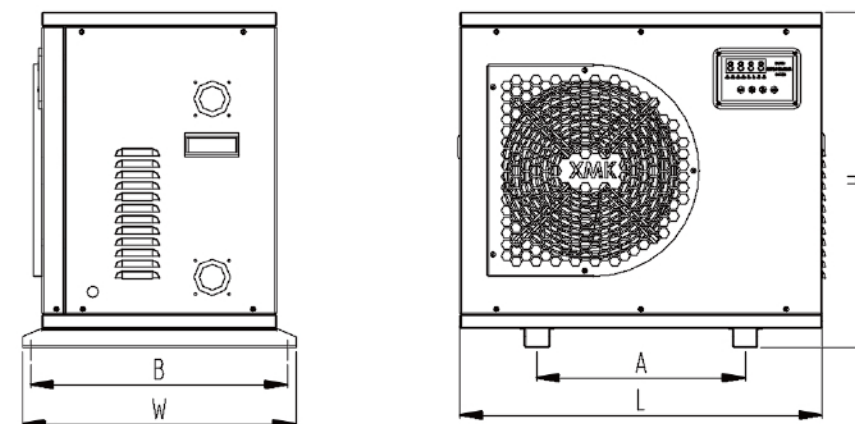


### 3、主要技术参数 / Technical data:

型号 Model	HX150S	HX200S	HX300S	HX200T	HX300T
电源 Power Supply	1P/220V/50Hz			3P/380V/50Hz	
适用水温 Apply water temp.(°C)	5~26 °C				
适用水量 Apply water volume(m3)	0.75 -2.3	1.0 -3.0	1.5 -4.5	1.5 -4.5	2.5 -7.5
机组功率 Input Power (KW)	1.3	1.7	2.4	2.4	4.4
名义制冷量 Nominal capacity(KW)	3.9	5.4	7.2	7.2	14.4
制冷剂 Refrigerant	R22				
外形尺寸 Overall size	L(mm)	650	650	650	980
	W(mm)	490	490	490	530
	H(mm)	600	600	600	1250
安装尺寸 Install size(A×B)(mm)	373 × 460	373 × 460	373 × 460	373 × 460	373 × 480
水口规格 Water inlet/outlet size	DN 50	DN50	DN50	DN50	DN50
机组重量 Weight(kg)	45	55	55	55	125

备注:冷量标定条件为冷凝温度42°C、蒸发温度0°C、进水温度7°C、出水温度12°C。  
Remark: The calibration conditions of cooling capacity are condensing temperature. 42°C, evaporation temp.0°C, inlet temp. 7°C and outlet 12°C for water.

### 4、外形及安装尺寸 / Outline and installation dimension:







## BUW-A 系列涡旋压缩机紧凑型立式箱式冷凝机组

### BUW-A series Compact Box-type Unit With Scroll Compressor

#### 1、产品概述 / Product description:

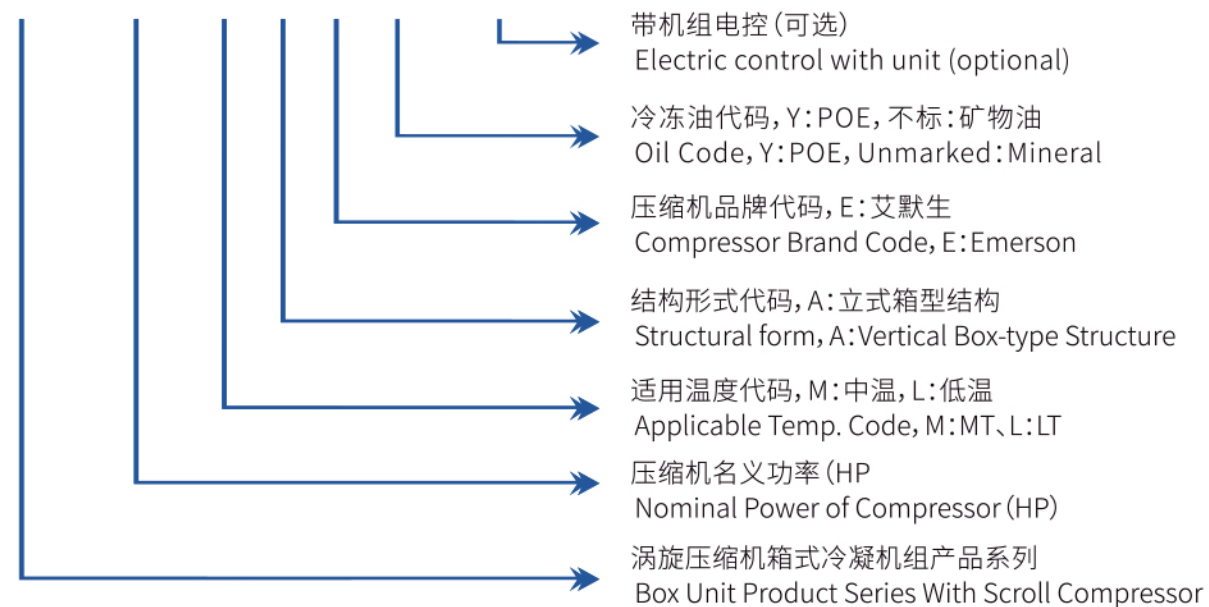
BUW-A 侧出风箱式冷凝机组采用艾默生涡旋压缩机,功率从2HP-10HP,使用6级电机,一改传统的全封闭冷凝机组的形式,可分别满足于-5℃~10℃、-10℃~-18℃、-18℃~-23℃的需要,可广泛用于宾馆、饭店、食品、卫生、医药、农业、化工等行业。

This BUW-A series products with Emerson scroll compressor,applicable to cold display cabinets, cold storage rooms, ice producers etc. The applicable temperature ranges are: -5℃~10℃、-10℃~-18℃、-18℃~-23℃. They can be widely used in hotels, restaurants, medicines, agricultural, chemicals industries all other place where cold storage is needed.

- 1 产品采用立式箱型结构,结构紧凑、外形美观;  
Products adopt vertical box-type structure, compact structure design, excellent appearance;
- 2 机箱盖采用铰链式的结构,维护操作方便;  
The cover of the case adopts hinge structure, which is easy to maintain and operate;
- 3 压缩机采用艾默生的ZB及带DTC喷液的ZSI涡旋压缩机,分别满足中温及低温的应用;  
Compressor uses Emerson ZB series scroll compressor and ZSI series scroll compressor with DTC spray to meet the application of medium temperature and low temperature respectively;
- 4 采用L型冷凝器,具有迎风面大、风阻小、换热效果好;  
Adopt L-type condenser, it has large windward side, small wind resistance and good heat transfer effect;
- 5 采用6极低转速外转子电机,噪音低;  
Adopt 6-pole external rotor motor with low speed and low noise;
- 6 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用  
It can meet the requirements of R22, R404A, R507A, R448A, R449A and other refrigerants.

#### 2、产品型号说明 / Model Explanation:

**BUW 02 M A E Y - E**



# BUW-A

## 系列涡旋压缩机紧凑型立式箱式冷凝机组

### series Compact Box-type Unit With Scroll Compressor





### 3、主要技术参数 / Technical data:

#### 1.中温机组 Medium Temp. Unit

##### 3.1.1 制冷剂 R22 Refrigerant R22

机组型号 Model		BUW -						
		02MAE	03MAE	04MAE	05MAE	06MAE	08MAE	10MAE
电源 Power Supply		3P/380V/50 Hz						
适用温度 Apply Temp.		-5℃ ~ 5℃						
压缩机 Comp.	型号 Model	ZB15KQ	ZB21KQ	ZB29KQ	ZB38KQ	ZB45 KQ	ZB58 KQ	ZB76 KQ
	最大电流 max.I(A)	6.0	8.0	11.0	13.5	16.1	23.0	26.9
风机 Fan	电压 Voltage (V)	3P/380V/50HZ						
	电流 Current (A)	0.5	0.5	1.0	1.0	1.4	1.4	1.4
	功率 Power (W)	166	166	166 × 2	166 × 2	166 × 2	257 × 2	257 × 2
	转速 Rev. (r/min)	910	910	910	910	910	930	930
吸气接口 Suction Line(mm)		φ19	φ19	φ19	φ19	φ19	φ28	φ35
供液接口 Liquid Line(mm)		φ9.5	φ9.5	φ12.7	φ12.7	φ12.7	φ16	φ16
尺寸 Size	L (mm)	1040	1040	1040	1040	1040	1180	1180
	W (mm)	570	570	570	570	570	545	545
	H (mm)	700	700	1100	1100	1100	1300	1300
安装 Install A×B (mm)		550 × 440	550 × 440	550 × 440	550 × 440	550 × 440	700 × 460	700 × 460
外形图 Outline Drawing		A	A	B	B	B	B	B

备注:1) 对于2HP及3HP机型可提供单相/220V/50Hz电源, 订货时请特殊注明。

Remarks: 1P/220V/50Hz power supply is available for 2HP and 3HP models. Please specify when ordering.

##### 3.1.2 制冷剂 R404A/R507A

##### Refrigerant R404A/R507A

机组型号 Model		BUW-						
		02MAEY	03MAEY	04MAEY	05MAEY	06MAEY	08MAEY	10MAEY
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15℃~5℃						
压缩机 Comp.	型号 Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB58KQE	ZB76KQE
	最大电流Max.I (A)	6.0	8.0	11.0	13.5	16.1	23.0	26.9
风机 Fan	电压Voltage (V)	3P/380V/50HZ						
	电流Current (A)	0.5	0.5	1.0	1.0	1.4	1.4	1.4
	功率Power (W)	166	166	166 × 2	166 × 2	166 × 2	257 × 2	257 × 2
	转速Rev. (r/min)	910	910	910	910	910	930	930
吸气接口 Suction Line (mm)		φ 19	φ 19	φ 19	φ 19	φ 19	φ 28	φ 35
供液接口 Liquid Line (mm)		φ 9.5	φ 9.5	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16
尺寸 Size	L (mm)	1040	1040	1040	1040	1040	1180	1180
	W (mm)	570	570	570	570	570	545	545
	H (mm)	700	700	1100	1100	1100	1300	1300
安装 Install A×B (mm)		550 × 440	550 × 440	550 × 440	550 × 440	550 × 440	700 × 460	700 × 460
外形图 Outline Drawing		A	A	B	B	B	B	B

备注:对于2HP及3HP机型可提供单相/220V/50Hz电源, 订货时请特殊注明。

Remarks: 1P/220V/50Hz power supply is available for 2HP and 3HP models. Please specify when ordering.

#### 3.2 低温机组 (带喷液)

#### Low Temp. Unit With DTC Spray

##### 3.2.1 制冷剂 R22 Refrigerant R22

机组型号 Model		BUW02LAE	BUW03LAE	BUW05LAE	BUW06LAE	BUW07LAE
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		-15℃~23℃				
压缩机 Comp.	型号 Model	ZSI06KQ	ZSI09KQ	ZSI15KQ	ZSI18KQ	ZSI21KQ
	最大电流 Max.I (A)	5.2	6.2	10.1	11.2	13.6
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	0.5	0.5	1.0	1.0	1.0
	功率 Power (W)	166	166	166 × 2	166 × 2	166 × 2
	转速 Rev.(r/min)	910	910	910	910	910
吸气接口 Suction Line (mm)		φ 19	φ 19	φ 19	φ 19	φ 19
供液接口 Liquid Line (mm)		φ 9.5	φ 9.5	φ 12.7	φ 12.7	φ 12.7
尺寸 Size	L (mm)	1040	1040	1040	1040	1040
	W (mm)	570	570	570	570	570
	H (mm)	700	700	1100	1100	1100
安装尺寸 Install A×B (mm)		550 × 440	550 × 440	550 × 440	550 × 440	550 × 440
外形图 Outline Drawing		A	A	B	B	B

备注:对于2HP机型可提供单相/220V/50Hz电源, 订货时请特殊注明。

Remarks: 1P/220V/50Hz power supply is available for 2HP and 3HP models. Please specify when ordering.

##### 3.2.2 制冷剂 R404A/R507A

##### Refrigerant R404A/R507A

机组型号 Model		BUW02LAEY	BUW03LAEY	BUW05LAEY	BUW06LAEY	BUW07LAEY
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		-15℃~23℃				
压缩机 Comp.	型号 Model	ZSI06KQE	ZSI09KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE
	最大电流 Max.I (A)	5.2	6.2	10.1	13.2	14.6
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	0.5	0.5	1.0	1.0	1.0
	功率 Power (W)	166	166	166 × 2	166 × 2	166 × 2
	转速 Rev.(r/min)	910	910	910	910	910
吸气接口 Suction Line (mm)		φ 19SAE	φ 19SAE	φ 19SAE	φ 19SAE	φ 19SAE
供液接口 Liquid Line (mm)		φ 9.5SAE	φ 9.5SAE	φ 12.7SAE	φ 12.7SAE	φ 12.7SAE
尺寸 Size	L (mm)	1040	1040	1040	1040	1040
	W (mm)	570	570	570	570	570
	H (mm)	700	700	1100	1100	1100
安装尺寸 Install A×B (mm)		550 × 440	550 × 440	550 × 440	550 × 440	550 × 440
外形图 Outline Drawing		A	A	B	B	B

备注:对于2HP机型可提供单相/220V/50Hz电源, 订货时请特殊注明。

Remarks: 1P/220V/50Hz power supply is available for 2HP and 3HP models. Please specify when ordering.



### 4. 机组冷量表 / Cooling Capacity Data Of Unit

#### 4.1 中温机组冷量表 (W)

Medium Temp. Units (W) :

机组型号 Model		环境温度 (°C) Ambient	蒸发温度 Evaporating Temperature. (°C)				
			0	-5	-10	-15	-20
BUW02MAE	R22	25	5000	4240	3570	-	-
		32	4680	4000	3370	-	-
		42	--	3550	2980	-	-
BUW02MAEY	R404A R507A	25	4980	4260	3640	3070	2540
		32	4410	3820	3270	2700	2220
		42	--	2980	2520	2100	1690
BUW03MAE	R22	25	7270	6170	5200	-	-
		32	6810	5820	4900	-	-
		42	--	5160	4330	-	-
BUW03MAEY	R404A R507A	25	7390	6320	5400	4580	3810
		32	6650	5750	4930	4110	3430
		42	--	4660	3970	3360	2810
BUW04MAE	R22	25	9760	8290	6980	-	-
		32	9140	7810	6580	-	-
		42	--	6930	5820	-	-
BUW04MAEY	R404A R507A	25	10050	8570	7330	6220	5170
		32	9020	7800	6690	5580	4650
		42	--	6320	5390	4560	3810
BUW05MAE	R22	25	12150	10300	8680	-	-
		32	11350	9710	8170	-	-
		42	--	8610	7230	-	-
BUW05MAEY	R404A R507A	25	12650	10800	9250	7840	6520
		32	11350	9840	8440	7040	5870
		42	--	7970	6800	5750	4810
BUW06MAE	R22	25	14650	12450	10550	-	-
		32	13750	11750	9950	-	-
		42	--	10400	8700	-	-
BUW06MAEY	R404A R507A	25	14800	12650	10850	9180	7640
		32	13300	11500	9880	8240	6870
		42	--	9340	7960	6730	5630
BUW08MAE	R22	25	19300	16250	13450	-	-
		32	17950	15100	12500	-	-
		42	--	13200	10800	-	-
BUW08MAEY	R404A R507A	25	19800	17050	14400	12000	9850
		32	17750	15300	13050	10750	8760
		42	--	12600	10750	8740	6840
BUW10MAE	R22	25	25800	22000	18400	-	-
		32	24200	20600	17350	-	-
		42	--	18500	15500	-	-
BUW10MAEY	R404A R507A	25	26300	22700	19200	16050	13300
		32	23600	20400	17450	14500	12000
		42	--	16900	14550	12000	9770

备注:冷量基于10K的过热度、0K的过冷度。

Note: The refrigeration capacity is based on superheat of 10K and supercool of 0K.

#### 4.2 低温机组冷量表 (W)

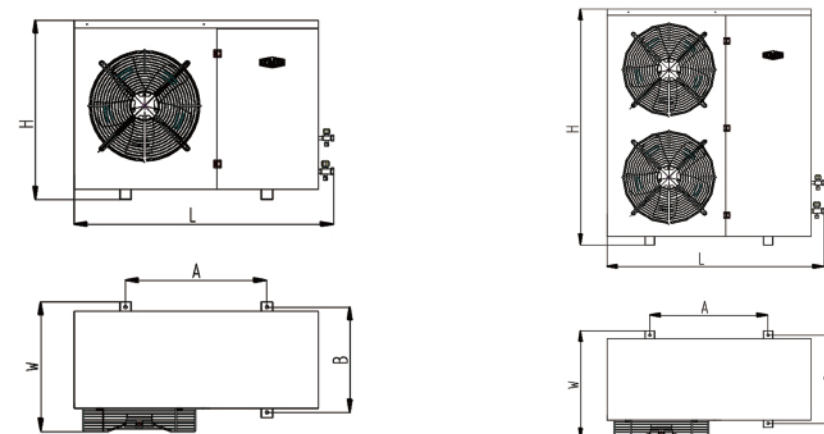
Low Temp. Units (W) :

机组型号 Model		环境温度 (°C) Ambient	蒸发温度 Evaporating Temperature (°C)		
			-20	-25	-30
BUW02LAE	R22	25	2380	1960	1620
		32	2220	1830	1520
		42	1950	1600	1330
BUW02LAEY	R404A R507A	25	2350	1930	1590
		32	2070	1700	1400
		42	1630	1330	1080
BUW03LAE	R22	25	3150	2550	2020
		32	2950	2400	1900
		42	2600	2130	1700
BUW03LAEY	R404A R507A	25	3350	2800	2300
		32	2900	2420	1980
		42	2250	1840	1470
BUW05LAE	R22	25	6040	5060	4210
		32	5540	4650	3880
		42	4880	4080	3400
BUW05LAEY	R404A R507A	25	5820	4770	3780
		32	5310	4360	3440
		42	4410	3680	2930
BUW06LAE	R22	25	7150	6020	5040
		32	6570	5480	4720
		42	5900	4900	4170
BUW06LAEY	R404A R507A	25	7120	6000	4900
		32	6200	5180	4440
		42	5250	4400	3640
BUW07LAE	R22	25	7940	6590	5560
		32	7540	6270	5280
		42	6770	5620	4720
BUW07LAEY	R404A R507A	25	8060	6670	5500
		32	7220	6000	4960
		42	5880	4920	4080

备注:冷量基于10K的过热度、0K的过冷度。

Note: The refrigeration capacity is based on superheat of 10K and supercool of 0K.

### 5. 机组外形尺寸图 / Dimension Drawing:



图Drawing A

图Drawing B



## 6. 机组标准配置及可选配置表 / Standard Configuration and Optional Configuration

### 6.1 中温机组

Medium Temp. Units:

机组配件 Parts	BUW-A 机组型号 Model of unit						
	-02M	-03M	-04M	-05M	-06M	-08M	-10M
压缩机 Compressor	●	●	●	●	●	●	●
油加热带 Oil heater	▲	▲	▲	▲	▲	▲	▲
油分离器 Oil Separator	▲	▲	▲	▲	▲	▲	▲
冷凝器 Condenser	●	●	●	●	●	●	●
6极AC电机 6-pole AC Motor	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●
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	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	●	●	●	●	●	●	●
回气管接口阀 Suction Line Valve	●	●	●	●	●	●	●
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲

说明: ●出厂标配; ▲选配件, 需额外付费;

Remarks: ● Standard Configuration; ▲ Optional, need extra costs;

### 6.2 低温机组

Low Temp. Units:

机组配件 Parts	BUW-A 机组型号 Model of unit				
	-02L	-03L	-05L	-06L	-07L
压缩机 Compressor	●	●	●	●	●
油加热带 Oil Heater	▲	▲	▲	▲	▲
油分离器 Oil Separator	▲	▲	▲	▲	▲
冷凝器 Condenser	●	●	●	●	●
6极AC电机 6-pole ACmotor	●	●	●	●	●
储液器 Receiver	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●
供液电磁阀 Solenoid Valve	▲	▲	▲	▲	▲
电子喷液阀 DTC Valve	●	●	●	●	●
高压保护 HP Switch	●	●	●	●	●
低压保护 LP Switch	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	●	●	●	●	●
回气管接口阀 Suction Line Valve	●	●	●	●	●
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲

说明: ●出厂标配; ▲选配件, 需额外付费;

Remarks: ● Standard Configuration; ▲ Optional, need extra costs;



# BUW-B

系列涡旋压缩机卧式箱式冷凝机组

series Horizontal Box-type Unit With Scroll Compressor





# BUW-B 系列涡旋压缩机卧式箱式冷凝机组

## BUW-B series Horizontal Box-type Unit With Scroll Compressor

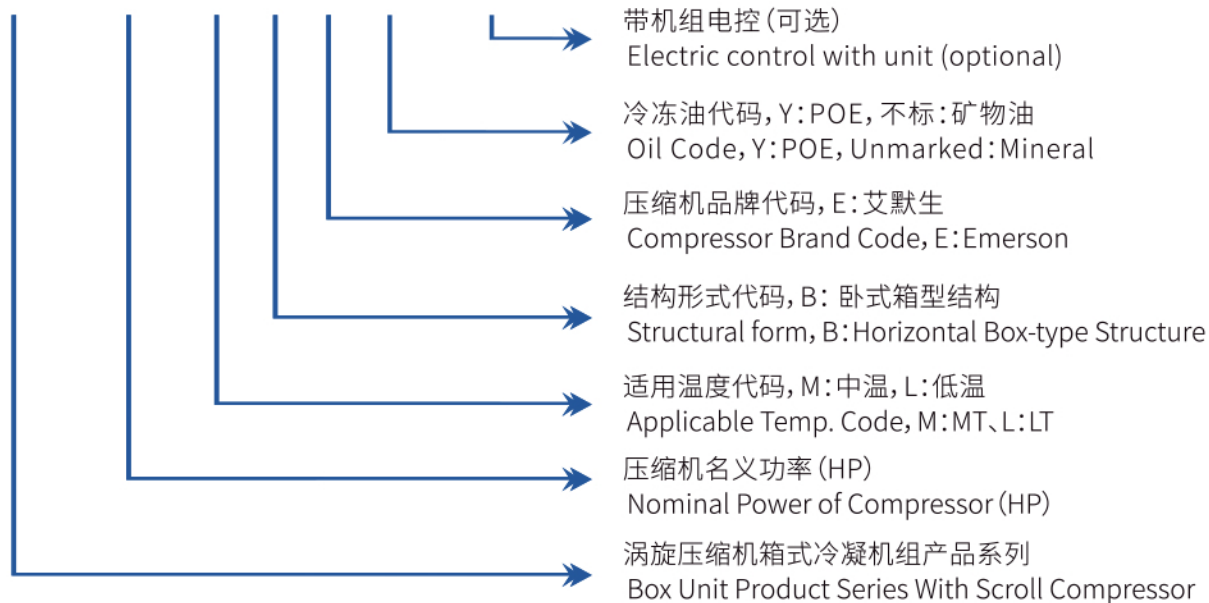
### 1、产品概述 / Product description:

BUW-B系列箱型冷凝机组具有如下特点：  
BUW-B series box-type condensing units have the following characteristics

- 1 产品采用卧式箱型结构, 高风筒设计, 外形美观;  
Products adopt horizontal box-type structure, high wind circle design, excellent appearance;
- 2 机箱盖采用铰链式的结构, 维护操作方便;  
The cover of the case adopts hinge structure, which is easy to maintain and operate;
- 3 压缩机采用艾默生的ZB系列、带DTC喷液的ZSI系列及带喷气增焓的ZFI系列涡旋压缩机, 分别满足中温及低温的应用;  
Compressor uses Emerson ZB series and ZSI series with DTC spray & ZFI series with EVI scroll compressor to meet the application of medium temperature and low temperature respectively;
- 4 采用U型冷凝器, 具有迎风面大、风阻小、换热效果好;  
Adopt U-type condenser, it has large windward side, small wind resistance and good heat transfer effect;
- 5 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用;  
Adopt U-type condenser, it has large windward side, small wind resistance and good heat transfer effect;

### 2、产品型号说明 / Model Explanation:

#### BUW 15 M B E Y - E



### 3、主要技术参数 / Technical data:

1. 中温机组  
Medium Temp. Unit  
3.1.1 制冷剂 R22  
Refrigerant R22

机组型号 Model		BUW02MBE	BUW03MBE	BUW04MBE	BUW05MBE	BUW06MBE	BUW08MBE
电源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C~5°C					
压缩机 Comp.	型号 Model	ZB15KQ	ZB21KQ	ZB29KQ	ZB38KQ	ZB45KQ	ZB58KQ
	最大电流 Max. I (A)	6.0	8.0	11.0	13.5	16.1	23.0
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	0.52	0.52	0.52	1.1	1.1	1.1
	功率 Power (W)	220	220	220	220×2	220×2	220×2
	转速 Rev. (r/min)	1380	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)	φ19	φ19	φ19	φ19	φ19	φ19	φ28
供液接口 Liquid Line (mm)	φ9.5	φ9.5	φ12.7	φ12.7	φ12.7	φ12.7	φ16
尺寸 Size	L (mm)	820	820	820	1320	1320	1320
	W (mm)	655	655	655	655	655	655
	H (mm)	815	815	815	1065	1065	1065
安装 Install A×B (mm)		335×615	335×615	335×615	635×615	635×615	635×615
外形图 Outline Drawing		A	A	A	B	B	B

备注: 1、标准设计工况: 环境温度32°C; 2、对于2HP及3HP机型可提供单相/220V/50Hz电源, 订货时请特殊注明。  
Remarks: 1, Design condition: ambient Temp. 32°C. 2, 1P/220V/50Hz power supply is available for 2HP and 3HP models. Please specify when ordering.

机组型号 Model		BUW10MBE	BUW12MBE	BUW15MBE	BUW20MBE	BUW22MBE	BUW25MBE
电源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5°C~5°C					
压缩机 Comp.	型号 Model	ZB76KQ	ZB88KQ	ZB114KQ	ZB130KQ	ZB150KQ	ZB190KQ
	最大电流 Max. I (A)	26.9	31.0	38.0	33.1	38.0	48.3
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	1.75	1.75	2.2	2.2	3.5	3.5
	功率 Power (W)	937	937	548×2	548×2	937×2	937×2
	转速 Rev. (r/min)	1380	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)	φ35	φ35	φ35	φ42	φ42	φ42	φ42
供液接口 Liquid Line (mm)	φ16	φ16	φ16	φ22	φ22	φ22	φ22
尺寸 Size	L (mm)	1020	1020	1620	1620	1920	1920
	W (mm)	905	905	805	805	905	905
	H (mm)	1205	1205	1205	1205	1305	1305
安装 Install A×B (mm)		460×865	460×865	700×765	700×765	1000×865	1000×865
外形图 Outline Drawing		A	A	B	B	B	B

备注: 1、标准设计工况: 环境温度32°C; 2、对于2HP及3HP机型可提供单相/220V/50Hz电源, 订货时请特殊注明。  
Remarks: 1, Design condition: ambient Temp. 32°C. 2, 1P/220V/50Hz power supply is available for 2HP and 3HP models. Please specify when ordering.



3.1.2 制冷剂 R404A/R507A  
Refrigerant R404A/R507A

机组型号 Model		BUW02MBEY	BUW03MBEY	BUW04MBEY	BUW05MBEY	BUW06MBEY	BUW08MBEY
电源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-10℃~5℃					
压缩机 Comp.	型号 Model	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB58KQE
	最大电流 Max.I (A)	6.0	8.0	11.0	13.5	16.1	23.0
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	0.52	0.52	0.52	1.1	1.1	1.1
	功率 Power (W)	220	220	220	220×2	220×2	220×2
	转速 Rev. (r/min)	1380	1380	1380	1380	1380	1380
吸气接口 Suction Lin (mm)		φ 19	φ 19	φ 19	φ 19	φ 19	φ 28
供液接口 Liquid Line (mm)		φ 9.5	φ 9.5	φ 12.7	φ 12.7	φ 12.7	φ 16
尺寸 Size	L (mm)	820	820	820	1320	1320	1320
	W (mm)	655	655	655	655	655	655
	H (mm)	815	815	815	1065	1065	1065
安装 Install A×B (mm)		335×615	335×615	335×615	635×615	635×615	635×615
外形图 Outline Drawing		A	A	A	B	B	B

备注: 1、标准设计工况:环境温度32℃;2、对于2HP及3HP机型可提供单相/220V/50Hz电源, 订货时请特殊注明。  
Remarks: 1,Design condition :ambient Temp. 32℃. 2, 1P/220V/50Hz power supply is available for 2HP and 3HP models. Please specify when ordering.

机组型号 Model		BUW10MBEY	BUW13MBEY	BUW15MBEY	BUW20MBEY	BUW22MBEY	BUW25MBEY
电源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-10℃~5℃					
压缩机 Comp.	型号 Model	ZB76KQE	ZB95KQE	ZB114KQE	ZB130KQE	ZB150KQE	ZB190KQE
	最大电流 Max.I (A)	26.9	31.0	38.0	33.1	38.0	48.3
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	1.75	2.2	2.2	2.2	3.5	3.5
	功率 Power (W)	937	548×2	548×2	548×2	937×2	937×2
	转速 Rev. (r/min)	1380	1380	1380	1380	1380	1380
吸气接口 Suction Lin (mm)		φ 35	φ 35	φ 35	φ 42	φ 42	φ 42
供液接口 Liquid Line (mm)		φ 16	φ 16	φ 16	φ 22	φ 22	φ 22
尺寸 Size	L (mm)	1020	1620	1620	1620	1920	1920
	W (mm)	905	805	805	805	905	905
	H (mm)	1205	1205	1205	1205	1305	1305
安装 Install A×B (mm)		460×865	700×765	700×765	700×765	1000×865	1000×865
外形图 Outline Drawing		A	B	B	B	B	B

备注: 1、标准设计工况:环境温度32℃;2、对于2HP及3HP机型可提供单相/220V/50Hz电源, 订货时请特殊注明。  
Remarks: 1,Design condition :ambient Temp. 32℃. 2, 1P/220V/50Hz power supply is available for 2HP and 3HP models. Please specify when ordering.

3.2 低温机组  
Low Temp. Unit  
3.2.1 制冷剂R22,带喷液  
Refrigerant R22 with Spray

机组型号 Model		BUW02LBE	BUW03LBE	BUW05LBE	BUW06LBE	BUW07LBE
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		-15℃~-23℃				
压缩机 Comp.	型号 Model	ZSI06KQ	ZSI09KQ	ZSI15KQ	ZSI18KQ	ZSI21KQ
	最大电流 Max.I (A)	5.2	6.2	10.1	11.2	13.6
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	0.52	0.52	0.52	0.52	0.52
	功率 Power (W)	220	220	220	220	220
	转速 Rev. (r/min)	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)		φ 19	φ 19	φ 19	φ 19	φ 19
供液接口 Liquid Line (mm)		φ 9.5	φ 9.5	φ 12.7	φ 12.7	φ 12.7
尺寸 Size	L (mm)	820	820	820	820	820
	W (mm)	655	655	655	655	655
	H (mm)	815	815	815	815	815
安装 Install A×B (mm)		335×615	335×615	335×615	335×615	335×615
外形图 Outline Drawing		A	A	A	A	A

设计工况:环境温度32℃。  
Design condition :ambient Temp 32℃.

3.2.2 制冷剂R404A/R507A,带喷液  
Refrigerant R404A/R507A with DTC Spray

机组型号 Model		BUW02LBEY	BUW03LBEY	BUW05LBEY	BUW06LBEY	BUW07LBEY
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		-15℃~-23℃				
压缩机 Comp.	型号 Model	ZSI06KQE	ZSI09KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE
	最大电流 Max. I (A)	5.7	6.7	11.9	13.2	14.6
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	0.52	0.52	0.52	0.52	0.52
	功率 Power (W)	220	220	220	220	220
	转速 Rev. (r/min)	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)		φ 19	φ 19	φ 19	φ 19	φ 19
供液接口 Liquid Line (mm)		φ 9.5	φ 9.5	φ 12.7	φ 12.7	φ 12.7
尺寸 Size	L (mm)	820	820	820	820	820
	W (mm)	655	655	655	655	655
	H (mm)	815	815	815	815	815
安装 Install A×B (mm)		335×615	335×615	335×615	335×615	335×615
外形图 Outline Drawing		A	A	A	A	A

设计工况:环境温度32℃。  
Design condition :ambient Temp 32℃.



3.2.3 制冷剂R22/R404A/R507A,带喷气增焓  
Refrigerant R22/R404A/R507A with EVI

机组型号 Model		BUW06LBEY/ZFI	BUW10LBEY	BUW12LBEY	BUW15LBEY	BUW18LBEY
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		-15℃~-30℃				
压缩机 Comp.	型号 Model	ZFI26KQE	ZFI39KQE	ZFI50KQE	ZFI59KQE	ZFI68KQE
	最大电流 Max.I (A)	13.0	18.1	25.0	29.0	30.0
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	1.1	1.1	1.1	1.48	2.2
	功率 Power (W)	220×2	220×2	220×2	937	548×2
	转速 Rev.(r/min)	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)		φ 22	φ 22	φ 35	φ 35	φ 35
供液接口 Liquid Line (mm)		φ 12.7	φ 12.7	φ 16	φ 16	φ 16
尺寸 Size	L (mm)	1320	1320	1020	1020	1620
	W (mm)	655	655	805	805	805
	H (mm)	1065	1065	1065	1205	1205
安装 Install A×B (mm)		635×615	635×615	635×615	460×865	700×765
外形图 Outline drawing		B	B	B	A	B

设计工况:环境温度32℃。  
Design condition :ambient Temp 32℃.

5. 机组冷量表 / Cooling Capacity Data

5.1 中温机组冷量表 (W)  
Medium Temp. (W)

机组型号 Model		环境温度 (°C) Ambient	蒸发温度 Evaporating Temperature. (°C)				
			0	-5	-10	-15	-20
BUW02MBE	R22	25	5000	4240	3570	-	-
		32	4680	4000	3370	-	-
		42	4170	3550	2980	-	-
BUW02MBEY	R404A R507A	25	4980	4260	3640	3070	2540
		32	4410	3820	3270	2700	2220
		42	3480	2980	2520	2100	1690
BUW03MBE	R22	25	7270	6170	5200	-	-
		32	6810	5820	4900	-	-
		42	6060	5160	4330	-	-
BUW03MBEY	R404A R507A	25	7390	6320	5400	4580	3810
		32	6650	5750	4930	4110	3430
		42	5430	4660	3970	3360	2810
BUW04MBE	R22	25	9760	8290	6980	-	-
		32	9140	7810	6580	-	-
		42	8140	6930	5820	-	-
BUW04MBEY	R404A R507A	25	10050	8570	7330	6220	5170
		32	9020	7800	6690	5580	4650
		42	7370	6320	5390	4560	3810
BUW05MBE	R22	25	12150	10300	8680	-	-
		32	11350	9710	8170	-	-
		42	10100	8610	7230	-	-
BUW05MBEY	R404A R507A	25	12650	10800	9250	7840	6520
		32	11350	9840	8440	7040	5870
		42	9290	7970	6800	5750	4810
BUW06MBE	R22	25	14650	12450	10550	-	-
		32	13750	11750	9950	-	-
		42	12250	10400	8700	-	-
BUW06MBEY	R404A R507A	25	14800	12650	10850	9180	7640
		32	13300	11500	9880	8240	6870
		42	10900	9340	7960	6730	5630

机组型号 Model		环境温度 (°C) Ambient	蒸发温度 Evaporating Temperature. (°C)				
			0	-5	-10	-15	-20
BUW08MBE	R22	25	19300	16250	13450	-	-
		32	17950	15100	12500	-	-
		42	--	13200	10800	-	-
BUW08MBEY	R404A R507A	25	19800	17050	14400	12000	9850
		32	17750	15300	13050	10750	8760
		42	--	12600	10750	8740	6840
BUW10MBE	R22	25	26200	22000	18400	-	-
		32	24200	20600	17350	-	-
		42	22100	18500	15500	-	-
BUW10MBEY	R404A R507A	25	26300	22700	19200	16050	13300
		32	23600	20400	17450	14500	12000
		42	19950	16900	14550	12000	9770
BUW12MBE	R22	25	29600	25300	21100	-	-
		32	26700	23500	19750	-	-
		42	--	20800	17500	-	-
BUW13MBEY	R404A R507A	25	32300	27900	23700	19500	16500
		32	28800	25000	21400	17750	14500
		42	24200	20400	17400	14100	/
BUW15MBE	R22	25	37900	32100	26700	-	-
		32	35000	29500	24500	-	-
		42	30900	25400	-	-	-
BUW15MBEY	R404A R507A	25	38700	33300	28200	23600	19400
		32	34600	29800	25400	20900	17000
		42	29000	24200	20500	16550	/
BUW20MBE	R22	25	41700	35100	29100	-	-
		32	39200	33000	27300	-	-
		42	--	28600	23000	-	-
BUW20MBEY	R404A R507A	25	41200	35000	29700	24900	20600
		32	37500	32300	27400	22700	18600
		42	--	26800	22700	18900	-
BUW22MBE	R22	25	49000	41600	35200	-	-
		32	46300	39400	33200	-	-
		42	42000	34700	28500	-	-
BUW22MBEY	R404A R507A	25	50000	42700	36500	30900	25800
		32	45400	39100	33500	28000	23400
		42	38900	32500	27800	-	-
BUW25MBE	R22	25	60800	51100	42900	-	-
		32	57000	48200	40400	-	-
		42	--	42500	35200	-	-
BUW25MBEY	R404A R507A	25	62500	53400	45700	38700	32300
		32	56800	49000	42000	35100	29300
		42	--	40700	34700	-	-

备注:冷量基于10K过热度,0K过冷度。  
Remark: Cooling capacity is based on superheat of 10K and supercool of 0K.



5.2 带DTC喷液的低温机组冷量表(W)  
Low temp. units With DTC Spray (W):

机组型号 Model		环境温度 (°C) Ambient	蒸发温度 Evaporating Temperature (°C)		
			-20	-25	-30
BUW02LBE	R22	25	2380	1960	1620
		32	2220	1830	1520
		42	1950	1600	1330
BUW02LBEY	R404A R507A	25	2350	1930	1590
		32	2070	1700	1400
		42	1630	1330	1080
BUW03LBE	R22	25	3150	2550	2020
		32	2950	2400	1900
		42	2600	2130	1700
BUW03LBEY	R404A R507A	25	3350	2800	2300
		32	2900	2420	1980
		42	2250	1840	1470
BUW05LBE	R22	25	6040	5060	4210
		32	5540	4650	3880
		42	4880	4080	3400
BUW05LBEY	R404A R507A	25	5820	4770	3780
		32	5310	4360	3440
		42	4410	3680	2930
BUW06LBE	R22	25	7150	6000	5000
		32	6570	5480	4700
		42	5980	4980	4170
BUW06LBEY	R404A R507A	25	7120	6000	4900
		32	6200	5180	4440
		42	5250	4400	3640
BUW07LBE	R22	25	7940	6590	5560
		32	7540	6270	5280
		42	6770	5620	4720
BUW07LBEY	R404A R507A	25	8060	6670	5500
		32	7220	6000	4960
		42	5880	4920	4080

备注:冷量基于10K过热度、0K过冷度。

Remark: Cooling capacity is based on superheat of 10K and supercool of 0K.

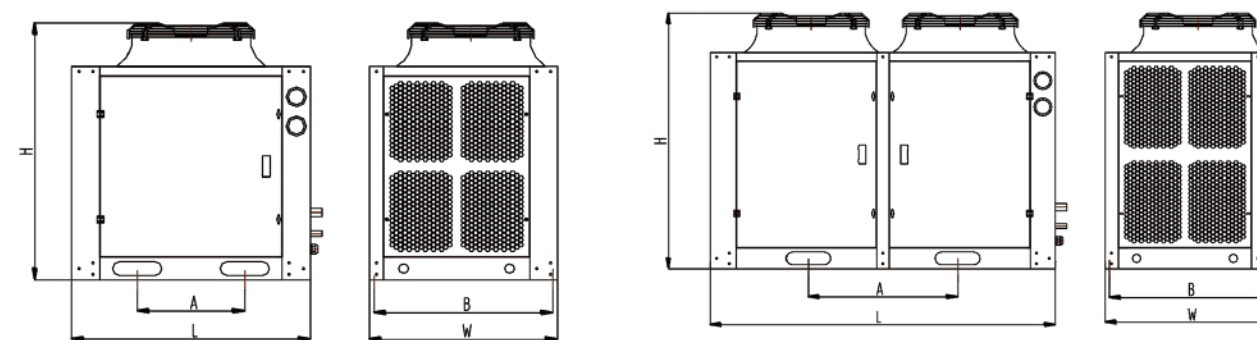
5.3 带喷气增焓的低温机组冷量表(W)  
Low temp. units With EVI (W):

机组型号 Model		环境温度 (°C) Ambient	蒸发温度 Evaporating Temperature (°C)				
			-20	-25	-30	-35	-40
BUW06LBEY/ ZFI26KQE	R22	25	9050	7520	6140	4960	4020
		32	8920	7440	6080	4910	3970
		42	8450	7130	5850	4720	3800
	R404A R507A	25	10300	8720	7410	6110	5020
		32	9950	8450	7190	5990	4970
		42	9400	8050	6890	5820	4930
BUW10LBEY	R22	25	13200	11200	9510	8010	6510
		32	12750	10800	9150	7710	6250
		42	11750	10000	8470	7040	5630
	R404A R507A	25	14950	12750	10900	8960	7280
		32	14300	12250	10500	8650	7100
		42	13350	11000	9910	8290	6930
BUW12LBEY	R22	25	15750	13350	11300	9530	7900
		32	15250	12900	10850	9140	7540
		42	14050	11950	10000	8340	6750
	R404A R507A	25	17600	14900	12600	10500	9010
		32	17000	14400	12200	10150	8720
		42	16000	13600	11450	9500	8090
BUW15LBEY	R22	25	18750	15850	13450	11350	9290
		32	18100	15300	12950	10900	8920
		42	16700	14200	12000	9980	8010
	R404A R507A	25	21400	18100	15300	12750	10950
		32	20700	17500	14800	12300	10600
		42	19450	16550	13950	11550	9830
BUW18LBEY	R22	25	22300	18850	15950	13500	11150
		32	21500	18200	15350	12950	10650
		42	19850	16900	14200	11800	9540
	R404A R507A	25	24200	20500	17300	14400	12350
		32	23400	19750	16750	13900	11950
		42	22000	18700	15750	13000	11100

备注:冷量基于10K过热度、0K过冷度。

Remark: Cooling capacity is based on superheat of 10K and supercool of 0K.

4、机组外形尺寸图 / Dimension Drawing



图Drawing A

图Drawing B



## 6. 机组标准配置及可选配置表 / Standard Configuration and Optional Configuration

### 6.1 中温机组 Medium temp. unit :

机组配件 Parts	BUW-B 机组型号 Model of Unit												
	02M	03M	04M	05M	06M	08M	10M	12M	13M	15M	20M	22M	25M
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●	●
油加热带 Oil Heater	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●
冷凝器 Condensator	●	●	●	●	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●	●
视镜 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	●	●	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
回气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

### 6.2 低温机组 Low Temp. unit:

机组配件 Parts	BUW-B 机组型号 Model of Unit									
	带喷液 With DTC Spray					带喷气增焓 With EVI				
	02L	03L	05L	06L	07L	06L	10L	12L	15L	18L
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●
油加热带 Oil Heater	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
油分离器 Oil Separator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
冷凝器 Condensator	●	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●
视镜 Sight Glass	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
DTC 喷液阀 DTC Spray	●	●	●	●	●	/	/	/	/	/
喷气增焓 EVI	/	/	/	/	/	●	●	●	●	●
高压保护 HP Switch	●	●	●	●	●	●	●	●	●	●
低压保护 LP Switch	●	●	●	●	●	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
回气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲



## GU 系列涡旋压缩机箱式冷凝机组 series Box-type Unit With Scroll Compressor





# GU 系列涡旋压缩机箱式冷凝机组

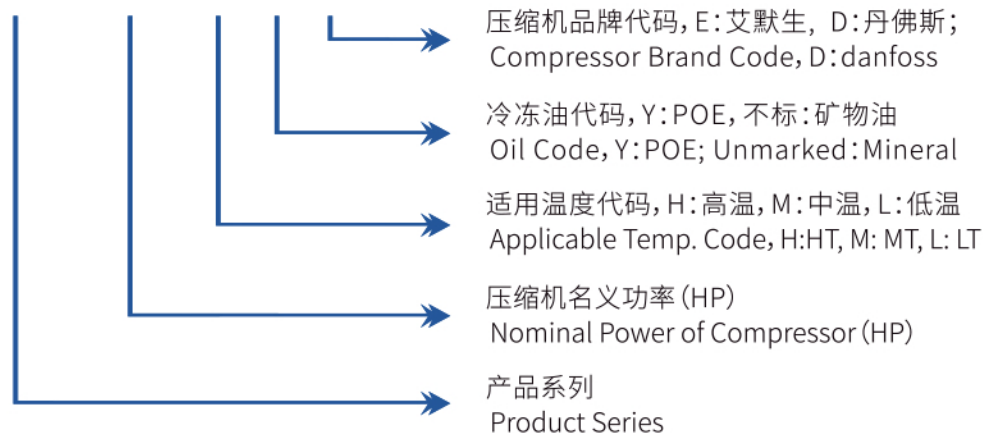
## GU series Box-type Unit With Scroll Compressor

### 1、产品概述 / Product description:

- 1 该系列产品主要针对冷库应用而开发的。  
This series of products is mainly developed for cold storage applications.
- 2 机组采用丹佛斯或爱默生定频涡旋压缩机；  
The unit adopts Danfoss or Emerson fixed frequency scroll compressor.
- 3 采用空调型式的机箱，配备6极低转速低噪音风机，非常适合于居民区安装；  
Air conditioning type case is adopted ,Adopted 6-pole low speed and low noise fan. It is very suitable for residential area.
- 4 可满足R404A、R507A、R22等制冷剂使用  
It can meet the requirements of R404A, R507A, R448A, R449A and other refrigerants.

### 2、产品型号说明 / Model Explanation:

**GU 05 M Y E**



### 3、主要技术参数 / Technical data:

3.1 采用艾默生涡旋压缩机技术数据  
Unit of Emerson scroll compressor

3.1.1 高温机组  
High Temp. Unit

1) 制冷剂 Refrigerant R22

机组型号 Model		GU02HE	GU03HE	GU04HE	GU05HE	
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		8°C~15°C				
压缩机 Comp.	型号 Model	ZB15KQ	ZB21KQ	ZB29KQ	ZB38KQ	
	最大电流 Max. I (A)	6.0	8.0	11.0	13.5	
冷量/功率 Capacity/ Power (kW)	蒸发 Evap.	5°C	5.8/1.6	8.4/2.3	11.3/2.9	14.0/3.7
		0°C	4.9/1.5	7.1/2.2	9.5/2.8	11.9/3.6
		-5°C	4.1/1.5	6.0/2.2	8.0/2.7	10.0/3.5
风机 Fan	电压 Voltage (V)	1P/220V/50HZ				
	电流 Current (A)	0.68	0.68	1.36	1.36	
	功率 Power (W)	120	120	120×2	120×2	
	转速 Rev. (r/min)	820	820	820	820	
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight(kg)		67	74	93	103	
噪音 Noise dBA (1米声压级)		60	60	61	61	
尺寸图 Dimension Drawing		A	A	B	B	

标准设计:环境温度32°C。  
Design condition, ambient 32 degree.

3.1.2 中温机组  
Medium Temp. Unit

1) 制冷剂 Refrigerant R22

机组型号 Model		GU02ME	GU03ME	GU04ME	GU05ME	GU06ME	GU07ME	
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-5°C~5°C						
压缩机 Comp.	型号 Model	ZB15KQ	ZB21KQ	ZB29KQ	ZB38KQ	ZB45KQ	ZB48KQ	
	最大电流 Max. I (A)	6.0	8.0	11.0	13.5	16.1	17.0	
冷量/功率 Capacity/ Power (kW)	蒸发 Evap.	-5°C	4.0/1.6	5.7/2.3	7.7/2.9	9.6/3.7	11.7/4.3	12.8/4.7
		-8°C	3.6/1.5	5.2/2.2	6.9/2.8	8.6/3.6	10.5/4.2	11.5/4.6
		-10°C	3.3/1.5	4.8/2.2	6.5/2.8	8.0/3.5	9.8/4.1	10.8/4.5
风机 Fan	电压 Voltage (V)	1P/220V/50HZ						
	电流 Current (A)	0.68	0.68	0.68	1.36	1.36	1.36	
	功率 Power (W)	120	120	120	120×2	120×2	120×2	
	转速 Rev. (r/min)	820	820	820	820	820	820	
吸气接口 Suction Line (mm)		φ 19	φ 19	φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight (kg)		63	71	80	98	105	105	
噪音 Noise dBA (1米声压级)		60	60	60	61	61	61	
尺寸图 Dimension Drawing		A	A	A	B	B	B	

标准设计:环境温度32°C。  
Design condition, ambient 32 degree.



2) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		GU02MYE	GU03MYE	GU04MYE	GU05MYE	GU06MYE	GU07MYE	
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15°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	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-5°C	3.7/1.8	5.6/2.6	7.6/3.4	9.6/4.3	11.3/4.9	12.4/5.3
		-8°C	3.4/1.8	5.1/2.5	6.9/3.3	8.7/4.2	10.2/4.8	11.2/5.2
		-10°C	3.2/1.8	4.8/2.5	6.5/3.3	8.2/4.1	9.6/4.6	10.6/5.1
		-15°C	2.6/1.8	4.0/2.4	5.4/3.2	6.8/4.0	7.9/4.5	8.7/5.0
		-20°C	2.1/1.8	3.2/2.3	4.4/3.1	5.5/3.9	6.5/4.4	7.1/4.9
风机 Fan	电压 Voltage (V)	1P/220V/50HZ						
	电流 Current (A)	0.68	0.68	0.68	1.36	1.36	1.36	
	功率 Power (W)	120	120	120	120×2	120×2	120×2	
	转速 Rev. (r/min)	820	820	820	820	820	820	
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight (kg)		63	71	80	98	105	105	
噪音 Noise dBA (1米声压级)		60	60	60	61	61	61	
尺寸图 Dimension Drawing		A	A	A	B	B	B	

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

3.1.2 低温机组(带DTC喷液)  
Low Temp. Unit with DTC Spray

1) 制冷剂 Refrigerant R22

机组型号 Model		GU02LE	GU03LE	GU04LE	GU05LE	GU06LE	GU07LE	
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15°C~-23°C						
压缩机 Comp.	型号 Model	ZSI06KQ	ZSI09KQ	ZSI11KQ	ZSI15KQ	ZSI18KQ	ZSI21KQ	
	最大电流 Max.I (A)	5.2	6.2	6.6	10.1	11.2	13.6	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-20°C	2.2/1.6	3.0/2.0	3.8/2.4	5.8/3.2	6.7/4.2	7.5/4.6
		-25°C	1.8/1.5	2.4/1.9	3.2/2.3	4.8/3.0	5.6/4.0	6.2/4.4
		-30°C	1.5/1.4	1.9/1.8	2.6/2.2	3.9/2.9	4.7/3.7	5.2/4.2
风机 Fan	电压 Voltage (V)	1P/220V/50HZ						
	电流 Current (A)	0.68	0.68	0.68	1.36	1.36	1.36	
	功率 Power (W)	120	120	120	120×2	120×2	120×2	
	转速 Rev. (r/min)	820	820	820	820	820	820	
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight (kg)		60	60	75	91	98	100	
噪音 Noise dBA (1米声压级)		60	60	60	61	61	61	
尺寸图 Dimension Drawing		A	A	A	B	B	B	

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

2) 制冷剂 refrigerant R404A/R507A

机组型号 Model		GU02LYE	GU03LYE	GU04LYE	GU05LYE	GU06LYE	GU07LYE	
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15°C~-23°C						
压缩机 Comp.	型号 Model	ZSI06KQE	ZSI09KQE	ZSI11KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE	
	最大电流 Max.I (A)	5.7	6.7	7.5	11.9	13.2	14.6	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-20°C	2.1/1.8	2.9/2.3	3.7/2.6	5.6/3.4	6.5/4.4	7.2/4.9
		-25°C	1.7/1.7	2.4/2.2	3.0/2.5	4.5/3.2	5.3/4.2	5.9/4.7
		-30°C	1.4/1.6	1.9/2.0	2.3/2.2	3.5/3.0	4.4/4.0	4.9/4.3
		电压 Voltage (V)	1P/220V/50HZ					
风机 Fan	电流 Current (A)	0.68	0.68	0.68	1.36	1.36	1.36	
	功率 Power (W)	120	120	120	120×2	120×2	120×2	
	转速 Rev. (r/min)	820	820	820	820	820	820	
	吸气接口 Suction Line(mm)	φ 19	φ 19	φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight (kg)		60	60	75	91	98	100	
噪音 Noise dBA (1米声压级)		60	60	60	61	61	61	
尺寸图 Dimension Drawing		A	A	A	B	B	B	

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

3.2 采用丹佛斯涡旋压缩机的技术数据  
Unit of Danfoss scroll compressor

3.2.1 高温机组  
High Temp. Unit

1) 制冷剂 Refrigerant R22

机组型号 Model		GU02HD	GU03HD	GU04HD	GU05HD	
电源 Power		3P/380V/50Hz				
适用温度 Apply Temp.		8°C~15°C				
压缩机 Comp.	型号 Model	MLM015	MLM021	MLM030	MLM038	
	最大电流 Max.I (A)	7.0	9.5	13.0	15.0	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	5°C	5.7/1.6	7.8/2.1	12.1/3.1	14.3/3.7
		0°C	4.9/1.5	6.7/2.0	10.3/3.0	12.1/3.5
		-5°C	4.1/1.5	5.7/2.0	8.6/2.9	10.2/3.4
风机 Fan	电压 Voltage (V)	1P/220V/50HZ				
	电流 Current (A)	0.68	0.68	1.36	1.36	
	功率 Power (W)	120	120	120×2	120×2	
	转速 Rev. (r/min)	820	820	820	820	
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight (kg)		75	78	97	102	
噪音 Noise dBA (1米声压级)		60	60	61	61	
尺寸图 Dimension Drawing		A	A	B	B	

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.



2) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		GU02HYD	GU03HYD	GU04HYD	GU05HYD	
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		8°C~15°C				
压缩机 Comp.	型号 Model	MLZ015	MLZ021	MLZ030	MLZ038	
	最大电流 Max.I (A)	7.0	9.5	13.0	15.0	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	5°C	5.6/1.7	7.8/2.2	11.9/3.3	14.0/3.9
		0°C	4.7/1.6	6.6/2.2	10.0/3.3	11.9/3.8
		-5°C	4.0/1.6	5.6/2.2	8.4/3.2	10.0/3.7
风机 Fan	电压 Voltage (V)	1P/220V/50HZ				
	电流 Current (A)	0.68	0.68	1.36	1.36	
	功率 Power (W)	120	120	120×2	120×2	
	转速 Rev. (r/min)	820	820	820	820	
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight (kg)		75	78	97	102	
噪音 Noise dBA (1米声压级)		60	60	61	61	
尺寸图 Dimension Drawing		A	A	B	B	

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

2) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		GU02MYD	GU03MYD	GU04MYD	GU05MYD	GU06MYD	GU07MYD	
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-18°C~5°C						
压缩机 Comp.	型号 Model	MLZ015	MLZ021	MLZ030	MLZ038	MLZ045	MLZ048	
	最大电流 Max.I (A)	7.0	9.5	13.0	15.0	15.0	16.0	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-5°C	3.7/1.8	5.2/2.3	7.9/3.4	9.4/3.9	11.4/5.0	12.6/5.5
		-8°C	3.3/1.7	4.7/2.3	7.1/3.4	8.5/3.9	10.3/4.9	11.3/5.4
		-10°C	3.1/1.7	4.5/2.2	6.7/3.3	8.0/3.8	9.7/4.8	10.7/5.3
		-15°C	2.6/1.7	3.7/2.2	5.5/3.2	6.6/3.7	8.0/4.7	8.7/5.1
		-20°C	2.1/1.7	3.0/2.1	4.5/3.1	5.4/3.6	6.5/4.6	7.1/5.0
		-25°C	1.6/1.7	2.4/2.0	3.6/3.0	4.4/3.5	5.2/4.4	5.6/4.9
风机 Fan	电压 Voltage (V)	1P/220V/50HZ						
	电流 Current (A)	0.68	0.68	0.68	1.36	1.36	1.36	
	功率 Power (W)	120	120	120	120×2	120×2	120×2	
	转速 Rev.(r/min)	820	820	820	820	820	820	
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight (kg)		71	75	84	97	102	102	
噪音 Noise dBA (1米声压级)		60	60	60	61	61	61	
尺寸图 Dimension Drawing		A	A	A	B	B	B	

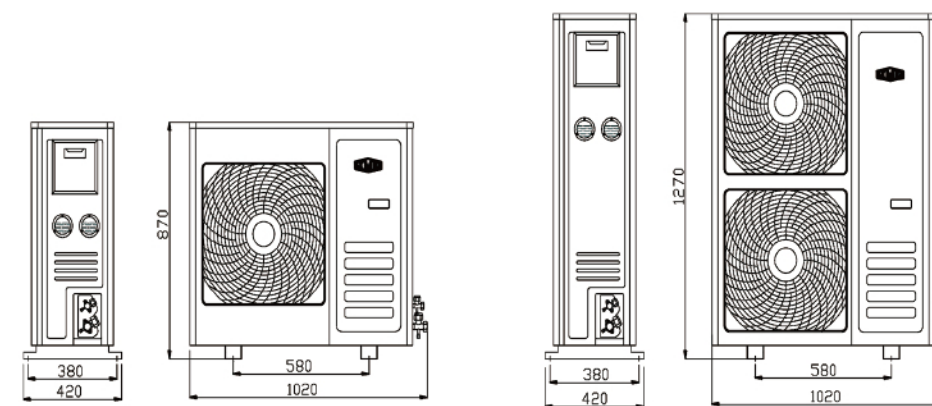
标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

3.2.2 中温机组  
Medium Temp. Unit  
1) 制冷剂 Refrigerant R22

机组型号 Model		GU02MD	GU03MD	GU04MD	GU05MD	GU06MD	GU07MD	
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-18°C~5°C						
压缩机 Comp.	型号 Model	MLM015	MLM021	MLM030	MLM038	MLM045	MLM048	
	最大电流 Max.I (A)	7.0	9.5	13.0	15.0	15.0	16.0	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-5°C	3.9/1.6	5.5/2.1	8.3/3.1	9.8/3.6	11.4/4.2	12.8/4.6
		-8°C	3.6/1.5	4.9/2.0	7.5/3.0	8.8/3.5	10.2/4.2	11.5/4.5
		-10°C	3.3/1.5	4.6/2.0	6.9/2.9	8.2/3.4	9.5/4.1	10.7/4.4
风机 Fan	电压 Voltage (V)	1P/220V/50HZ						
	电流 Current (A)	0.68	0.68	0.68	1.36	1.36	1.36	
	功率 Power (W)	120	120	120	120×2	120×2	120×2	
	转速 Rev.(r/min)	820	820	820	820	820	820	
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
重量 Weight (kg)		71	75	84	97	102	102	
噪音 Noise dBA (1米声压级)		60	60	60	61	61	61	
尺寸图 Dimension Drawing		A	A	A	B	B	B	

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

4、机组外形及安装尺寸图 / Dimension Drawing:



图Drawing A

图Drawing B



## 5. 标准配置 / Standard Configuration:

### 5.1 高温及中温机组 (ZB及ML压缩机)

High temp. and medium temp. unit for ZB or ML series compressors

机组配件 Parts	机组型号 Model of unit					
	GU02H GU02M	GU03H GU03M	GU04H GU04M	GU05H GU05M	GU06M	GU07M
涡旋压缩机 Compressor	●	●	●	●	●	●
冷凝器 Condensor	●	●	●	●	●	●
6极 AC 风机 6-pole motor	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●
干燥过滤器 Liquid filter	●	●	●	●	●	●
视液镜 Sight glass	●	●	●	●	●	●
电磁阀 Solenoid valve	●	●	●	●	●	●
高压及低压压控 HP/LP Switch	●	●	●	●	●	●
高压及低压表 HP/LP Gauge	●	●	●	●	●	●
供液接口阀 Liquid Line Valve	●	●	●	●	●	●
吸气接口阀 Suction Line Valve	●	●	●	●	●	●

### 5.2 低温机组 (ZSI压缩机)

Low temp. unit for ZSI series compressors

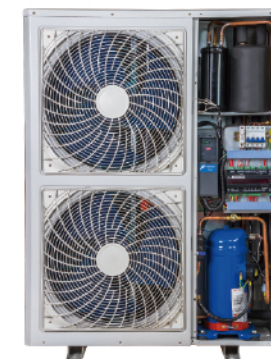
机组配件 Parts	机组型号 Model of unit					
	GU02LYE	GU03LYE	GU04LYE	GU05LYE	GU06LYE	GU07LYE
涡旋压缩机 Compressor	●	●	●	●	●	●
冷凝器 Condensor	●	●	●	●	●	●
6极 AC 电机 6-pole motor	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●
干燥过滤器 Liquid filter	●	●	●	●	●	●
视液镜 Sight glass	●	●	●	●	●	●
DTC 喷液阀 DTC Spray	●	●	●	●	●	●
电磁阀 Solenoid valve	●	●	●	●	●	●
高压及低压压控 HP/LP Switch	●	●	●	●	●	●
高压及低压表 HP/LP Gauge	●	●	●	●	●	●
供液管接口阀 Liquid Line Valve	●	●	●	●	●	●
吸气接口阀 Suction Line Valve	●	●	●	●	●	●



KCU  
VCU

系列丹佛斯涡旋压缩机箱式冷凝机组

series Box-type Unit With Danfoss Scroll Compressor





# KCU / VCU 系列丹佛斯涡旋压缩机箱式冷凝机组

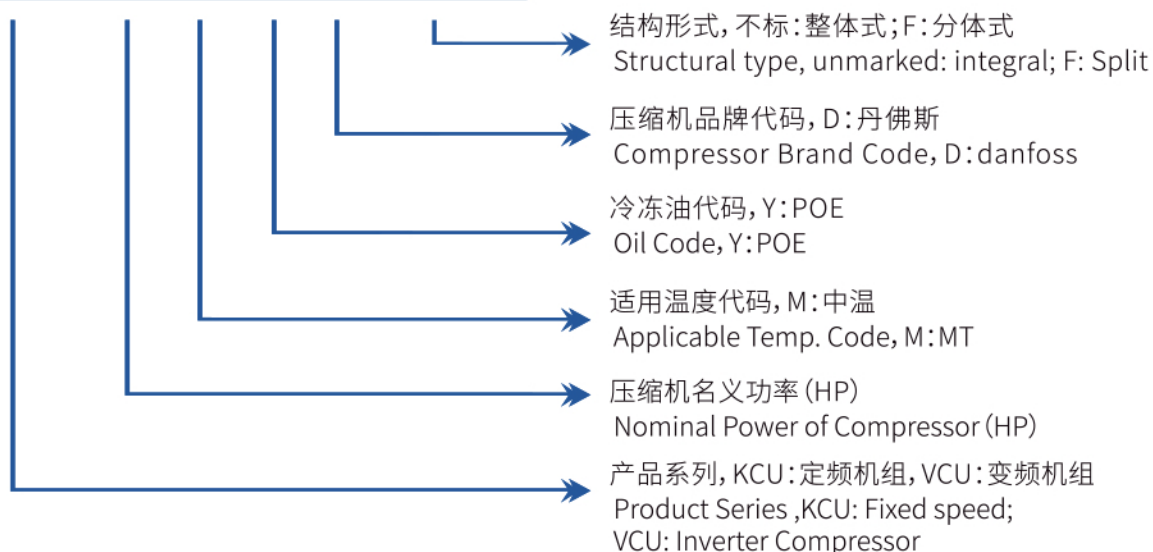
## KCU / VCU series Box-type Unit With Danfoss Scroll Compressor

### 1、产品概述 / Product description:

- 1 该系列产品主要针对商超应用而开发的; This series of products is mainly developed for commercial and supermarket applications.
- 2 机组采用丹佛斯MLZ定频或VLZ变频涡旋压缩机; The unit adopts Danfoss MLZ fixed frequency or VLZ variable frequency scroll compressor.
- 3 采用空调型式的机箱, 配备6极低转速低噪音风机及风扇调速功能, 非常适合于居民区安装; Adopted air conditioning type case is adopted, adopted 6-pole low speed and low noise fan. It is very suitable for residential area.
- 4 可根据用户要求采用整体形式或分体形式(压缩机与冷凝器分成两个机箱); The compressor and condenser can be divided into two cases according to the requirements of customers.
- 5 机组安装有油分、气分、机组控制及风机调速等, 特别适合便利店、商超制冷系统使用; The unit is equipped with oil separator and accumulator, unit control and fan speed regulation, etc. It is especially suitable for convenience store and supermarket refrigeration system.
- 6 压力控制压缩机开停机; The pressure control compressor starts and stops.
- 7 具有相序、缺相、过电流、排气温度、系统高低压等多种保护及故障查询功能; With phase sequence, phase loss, over current, discharge temperature, system high and low pressure protection and fault query functions.
- 8 可满足R404A、R507A、R448A、R449A等制冷剂使用。 It can meet the requirements of R404A, R507A, R448A, R449A and other refrigerants.

### 2、产品型号说明 / Model Explanation:

#### KCU 05 M Y D - F



### 3、主要技术参数 / Technical data:

3.1 KCU系列定频机组主要技术参数  
KCU series unit for fixed speed compressor:  
1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		KCU02MYD	KCU03MYD	KCU04MYD	KCU05MYD	KCU06MYD	KCU07MYD	
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-18°C~5°C						
压缩机 Comp.	型号 Model	MLZ015	MLZ021	MLZ030	MLZ038	MLZ045	MLZ048	
	最大电流 Max.I (A)	7.0	9.5	13.0	15.0	15.0	16.0	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-5°C	3.8/1.7	5.6/2.2	7.7/3.5	10.0/3.7	11.2/5.1	12.6/5.5
		-10°C	3.2/1.7	4.6/2.1	6.7/3.3	8.3/3.6	9.7/4.8	10.7/5.3
		-15°C	2.6/1.7	3.9/2.1	5.6/3.1	6.9/3.5	8.1/4.6	8.7/5.1
		-20°C	2.1/1.6	3.2/2.0	4.6/3.0	5.5/3.5	6.6/4.4	7.1/5.0
		-25°C	1.7/1.6	2.5/1.9	3.7/3.0	4.5/3.5	5.3/4.3	5.6/4.9
风机 Fan	电压 Voltage (V)	1P/220V/50HZ						
	电流 Current (A)	0.68	0.68	0.68	1.36	1.36	1.36	
	功率 Power (W)	120	120	120	120×2	120×2	120×2	
	转速 Rev. (r/min)	820	820	820	820	820	820	
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 19	φ 19	φ 19	
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 12.7	
尺寸 Size	L (mm)	1020	1020	1020	1020	1020	1020	
	W (mm)	420	420	420	420	420	420	
	H (mm)	870	870	870	1270	1270	1270	
安装 Install A×B (mm)		580×380	580×380	580×380	580×380	580×380	580×380	
重量 Weight (kg)		83	83	89	107.5	107.5	107.5	
噪音 Noise dBA (1米声压级)		60	60	60	61	61	61	
尺寸图 Dimension Drawing		A	A	A	B	B	B	

标准设计:环境温度32°C。  
Design condition, ambient 32 degree.

3.2 VCU系列变频机组主要技术参数  
VCU series unit for Inverter compressor  
1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		VCU02MYD	VCU03MYD	VCU05MYD	VCU08MYD
电源 Power Supply		3P/380V/50Hz			
适用温度 Apply Temp.		-18°C~5°C			
压缩机 Comp.	型号 Model	VLZ-028	VLZ-035	VLZ-044	VZH065
	频率范围 Frequency range	30Hz-100Hz			
	额定电流 Rated current (A)	7.0	8.5	10.5	27.2
最大电流 Max. current (A)		8.1	9.8	12.1	31.2
风机 Fan	电压 Voltage (V)	1P/220V/50HZ			
	电流 Current (A)	0.68	1.36	1.36	2.04
	功率 Power (W)	120	120	120×2	180×2
	转速 Rev. (r/min)	820	820	820	820
吸气接口 Suction Line(mm)		φ 19	φ 19	φ 19	φ 22
供液接口 Liquid Line(mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7
尺寸 Size	L (mm)	1020	1020	1020	1170
	W (mm)	420	420	420	490
	H (mm)	870	870	1270	1570
整体机组重量 Weight (kg)		82.5	102	102	
整体机组噪音 Noise dBA		60	61	61	68
安装 Install A×B (mm)		580×380	580×380	580×380	640×440
整体外形图 Integral Drawing		A	A	B	B
分体外形图 Split Drawing		A+C	A+C	B+C	B+C

标准设计:环境温度32°C。  
Design condition, ambient 32 degree.

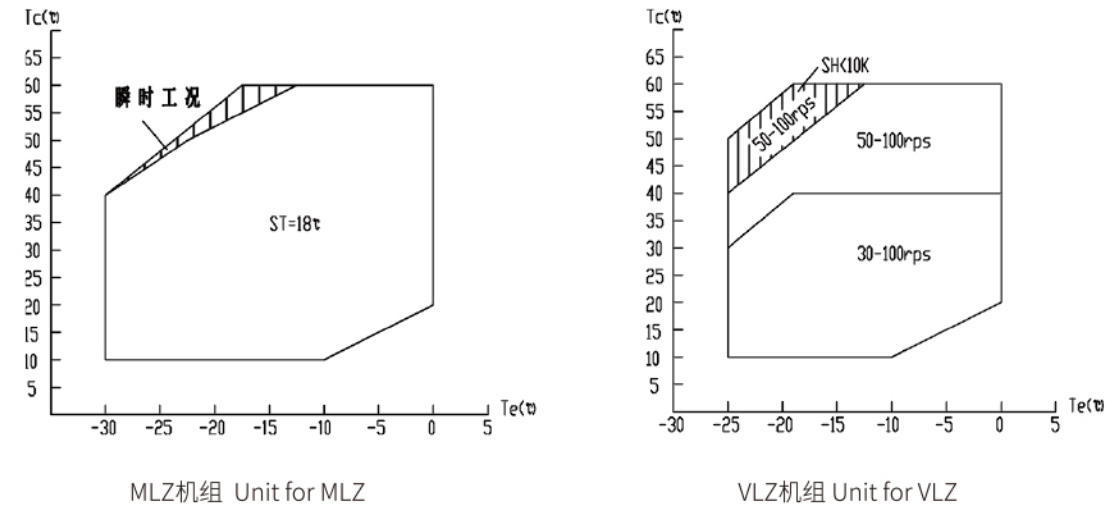


3.2.1 VCU变频机组压缩机冷量及功率数据表  
VCU Cooling capacity data

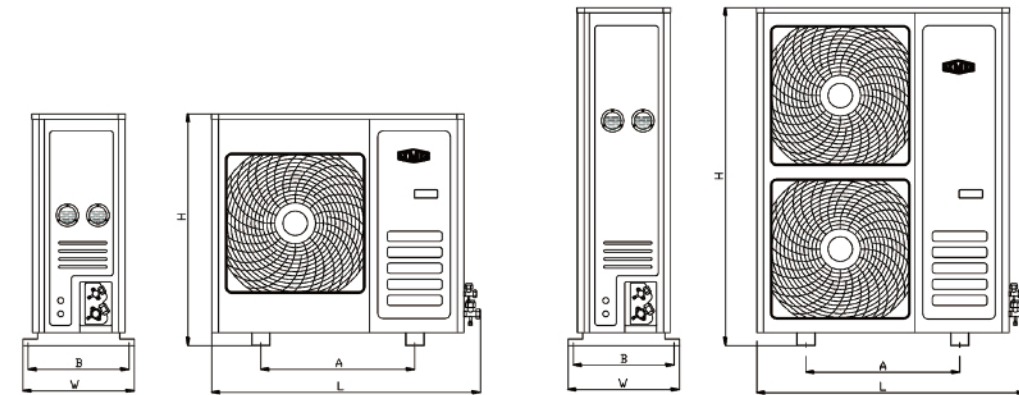
机组型号 Model	转速 (rps)	制冷量/输入功率 Capacity/Power (W/KW)					
		蒸发温度 Evaporating temperature					
		0°C	-5°C	-10°C	-15°C	-20°C	-25°C
VCU02MYD	30	2570/0.9	2100/0.9	1680/0.9	1340/0.9	-	-
	40	3470/1.2	2830/1.2	2280/1.2	1820/1.2	-	-
	50	4000/1.6	3265/1.6	2630/1.6	2090/1.6	1630/1.5	1300/1.4
	60	4825/1.9	3940/1.9	3175/1.9	2530/1.8	1975/1.8	1560/1.7
	70	5640/2.3	4610/2.3	3720/2.2	2960/2.2	2320/2.2	1800/2.1
	80	6455/2.7	5274/2.6	4260/2.6	3400/2.5	2660/2.5	2100/2.3
	90	7260/3.1	5940/3.0	4800/3.0	3830/2.9	3000/2.8	2340/2.7
	100	8065/3.5	6600/3.4	5340/3.4	4260/3.3	3340/3.2	2600/3.1
VCU03MYD	30	3250/1.1	2650/1.1	2130/1.0	1695/1.0	-	-
	40	4390/1.4	3590/1.4	2900/1.4	2320/1.3	-	-
	50	5060/1.9	4130/1.9	3335/1.9	2660/1.8	2090/1.8	1650/1.8
	60	6080/2.3	4970/2.3	4020/2.3	3215/2.2	2530/2.2	1980/2.1
	70	7100/2.8	5800/2.7	4700/2.6	3760/2.6	2970/2.6	2300/2.5
	80	8110/3.2	6620/3.2	5360/3.2	4290/3.1	3390/3.0	2640/2.9
	90	9100/3.8	7430/3.7	6010/3.6	4815/3.5	3805/3.4	2970/3.3
	100	10090/4.3	8230/4.2	6660/4.1	5330/4.0	4210/3.9	3300/3.8
VCU05MYD	30	4200/1.3	3430/1.3	2770/1.3	2210/1.3	-	-
	40	5640/1.8	4630/1.8	3750/1.7	3000/1.7	-	-
	50	6510/2.5	5325/2.4	4310/2.4	3440/2.3	2700/2.2	2000/2.2
	60	7835/3.0	6415/3.0	5195/2.9	4150/2.8	3260/2.7	2500/2.6
	70	9150/3.6	7495/3.5	6070/3.4	4850/3.3	3810/3.2	2940/3.0
	80	10460/4.1	8565/4.1	6940/4.0	5540/3.9	4350/3.7	3360/3.5
	90	11770/4.8	9630/4.7	7795/4.6	6225/4.4	4885/4.3	3780/4.1
	100	13070/5.4	10690/5.3	8640/5.1	6895/5.0	5406/4.8	4200/4.6
VCU08MYD	30	6130/1.9	5010/1.9	4040/1.9	3220/1.9	-	-
	40	8230/2.6	6760/2.6	5470/2.5	4380/2.5	-	-
	50	9500/3.7	7770/3.6	6290/3.5	5020/3.4	3940/3.3	2920/3.2
	60	11440/4.4	9360/4.3	7580/4.2	6050/4.1	4760/3.9	3650/3.8
	70	13360/5.2	10940/5.1	8860/5.0	7080/4.8	5560/4.6	4290/4.5
	80	15270/6.0	12500/5.9	10130/5.8	8080/5.6	6350/5.4	4900/5.2
	90	17180/6.9	14050/6.8	11380/6.6	9080/6.4	7100/6.2	5510/6.0
	100	19080/7.8	15600/7.7	12600/7.5	10060/7.3	7890/7.0	6130/6.8

冷量标定:环境温度32°C、冷凝温度40°C(≤40rps)或冷凝温度45°C(≥50rps)、过热度10K、过冷度0K。  
Cooling capacity calibration: ambient temp. 32°C, Cond. temp. 40°C (≤ 40rps) or Cond. temp. 45°C (≥ 50Rps), superheat 10K, subcooling 0K.

4. 机组运行范围图 / Unit operating range diagram:

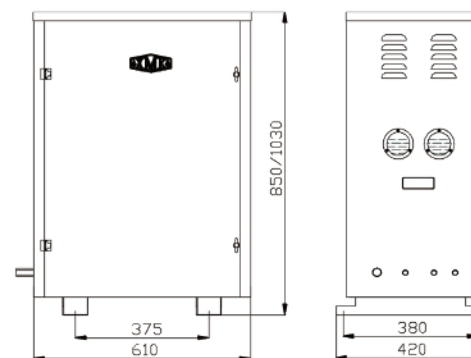


5. 外形尺寸示意图 / Dimension Drawing:



图Drawing A

图Drawing B



图Drawing C (8HP高度1030 Height size is 1030 for 8HP)





## BUB 系列半封闭压缩机箱式冷凝机组

### BUB series Box-type Unit With Semi-hermetic Compressor

#### 1、产品概述 / Product description:

BUB 系列箱型冷凝机组具有如下特点：  
BUB series horizontal box-type condensing units have the following characteristics

- 1 产品采用卧式箱型结构, 高风筒设计, 导风效果好, 外形美观;  
Products adopt horizontal box-type structure, high wind circle design, Excellent ventilation effect and appearance;
- 2 机箱盖采用铰链式的结构, 维护操作方便;  
The cover of the case adopts hinge structure, which is easy to maintain and operate;
- 3 压缩机采用BITZER或FRASCOLD半封闭活塞式制冷压缩机, 可分别满足中温及低温的应用;  
Adopted semi-hermetic piston compressors with BITZER or FRASCOLD to meet the application of medium temperature and low temperature respectively;
- 4 采用U型冷凝器, 具有迎风面大、风阻小、换热效果好;  
Adopted U-type condenser, it has large wind-ward side, small wind resistance and good heat transfer effect;
- 5 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用;  
It can meet the requirements of R22, R404A, R507A, R448A, R449A and other refrigerants.

# BUB

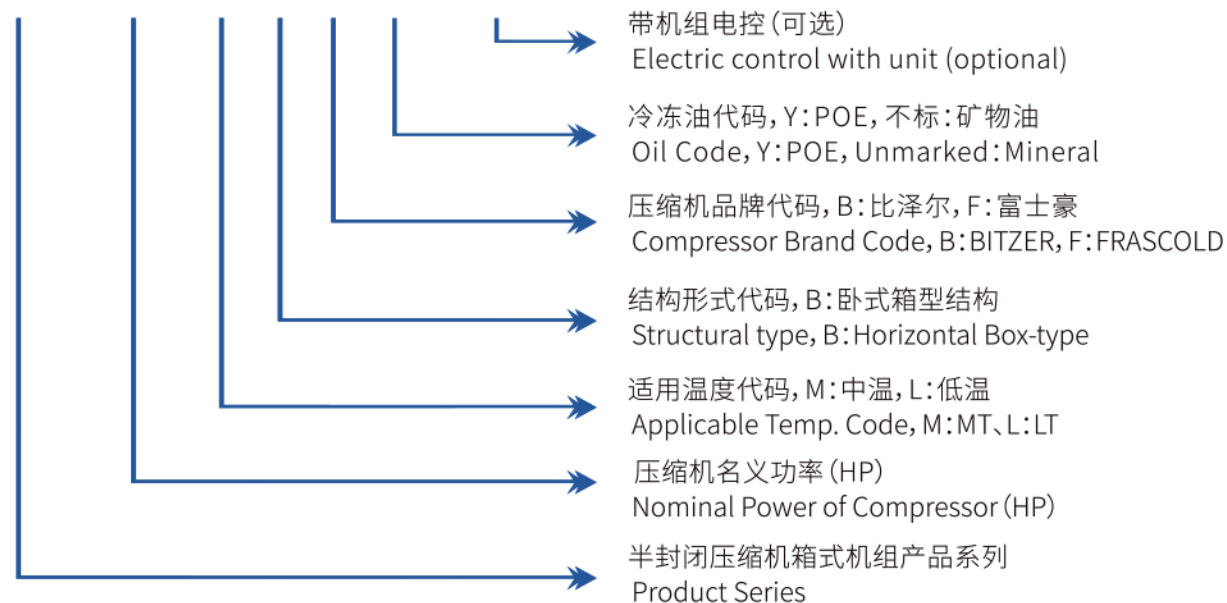
## 系列半封闭压缩机箱式冷凝机组

### series Box-type Unit With Semi-hermetic Compressor



#### 2、产品型号说明 / Model Explanation:

### BUB 15 M B B Y - E





### 3、主要技术数据 / Technical Data:

#### 3.1 比泽尔压缩机系列机组

Series Units With BITZER Semi-hermetic Compressor

##### 3.1.1 中温机组

Medium Temp. Unit

##### 1) 制冷剂 Refrigerant R22

机组型号 Model		BUB03MBB	BUB05MBB	BUB06MBB	BUB07MBB	BUB09MBB
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-5°C~5°C				
压缩机 Comp.	型号 Model	2EES-3	4FES-5	4EES-6	4DES-7	4CES-9
	最大电流 Max. I (A)	7.5	10.8	13.6	16.5	20.2
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	0.52	1.1	1.1	1.1	1.75
	功率 Power (W)	220	220×2	220×2	220×2	937
	转速 Rev. (r/min)	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)		φ 22	φ 22	φ 28	φ 28	φ 28
供液接口 Liquid Line (mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 16
尺寸 Size	L (mm)	820	1320	1320	1320	1020
	W (mm)	655	655	655	655	905
	H (mm)	815	1065	1065	1065	1205
安装尺寸 Install A×B (mm)		335×615	635×615	635×615	635×615	460×865
外形图 Dimension Drawing		A	B	B	B	A

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

机组型号 Model		BUB12MBB	BUB15MBB	BUB20MBB	BUB25MBB	BUB30MBB
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-5°C~5°C				
压缩机 Comp.	型号 Model	4TES-12	4PES-15	4NES-20	4HE-25	4GE-30
	最大电流 Max. I (A)	25.2	28.2	33.2	44.0	51.2
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	2.2	2.2	2.2	3.5	3.5
	功率 Power (W)	548×2	548×2	548×2	937×2	937×2
	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 28
尺寸 Size	L (mm)	1620	1620	1620	1920	1920
	W (mm)	805	805	805	905	905
	H (mm)	1205	1205	1205	1305	1305
安装尺寸 Install A×B (mm)		700×765	700×765	700×765	1000×865	1000×865
外形图 Dimension Drawing		B	B	B	B	B

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

##### 2) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		BUB03MBBY	BUB05MBBY	BUB06MBBY	BUB07MBBY	BUB09MBBY
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-5°C~5°C				
压缩机 Comp.	型号 Model	2EES-3Y	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y
	最大电流 Max. I (A)	7.5	10.8	13.6	16.5	20.2
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	0.52	1.1	1.1	1.1	1.75
	功率 Power (W)	220	220×2	220×2	220×2	937
	转速 Rev. (r/min)	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)		φ 22	φ 22	φ 28	φ 28	φ 28
供液接口 Liquid Line (mm)		φ 12.7	φ 12.7	φ 12.7	φ 12.7	φ 16
尺寸 Size	L (mm)	820	1320	1320	1320	1020
	W (mm)	655	655	655	655	905
	H (mm)	815	1065	1065	1065	1205
安装尺寸 Install A×B (mm)		335×615	635×615	635×615	635×615	460×865
外形图 Dimension Drawing		A	B	B	B	A

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.

机组型号 Model		BUB12MBBY	BUB15MBBY	BUB20MBBY	BUB25MBBY	BUB30MBBY
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-5°C~5°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)	25.2	28.2	33.2	44.0	51.2
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	2.2	2.2	2.2	3.5	3.5
	功率 Power (W)	548×2	548×2	548×2	937×2	937×2
	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 28	φ 28
尺寸 Size	L (mm)	1620	1620	1620	1920	1920
	W (mm)	805	805	805	905	905
	H (mm)	1205	1205	1260	1305	1305
安装尺寸 Install A×B (mm)		700×765	700×765	700×765	1000×865	1000×865
外形图 Dimension Drawing		B	B	B	B	B

标准设计:环境温度32°C。  
Design condition,ambient 32 degree.



3.1.2 低温机组

Low Temp. Unit

1) 制冷剂 Refrigerant R404A/R507A

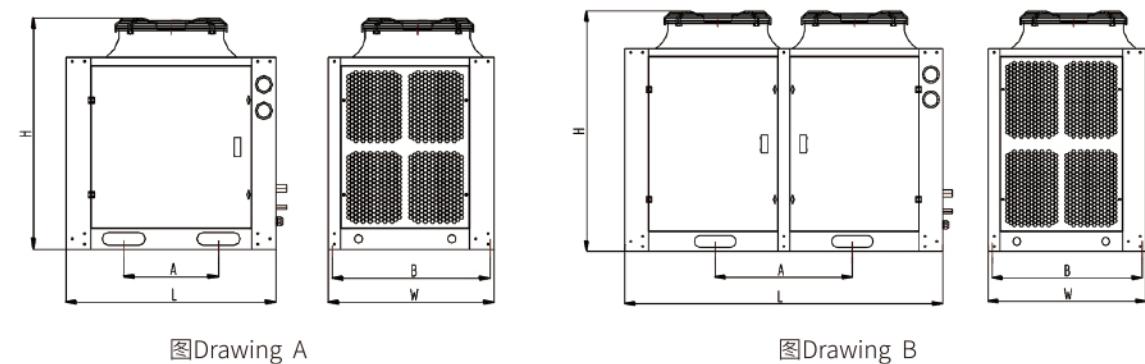
机组型号 Model		BUB03LBBY	BUB04LBBY	BUB05LBBY	BUB06LBBY	BUB09LBBY	BUB12LBBY
电源 Power Supply		3P/380V/50HZ					
适用温度 Apply Temp.		-15°C~30°C					
压缩机 Comp.	型号 Model	2CES-3Y	4EES-4Y	4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y
	最大电流 Max. I (A)	9.1	12.2	14.5	17.7	19.9	22.7
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	0.52	1.1	1.1	1.1	2.2	2.2
	功率 Power (W)	220	220×2	220×2	220×2	220×2	220×2
	转速 Rev. (r/min)	1380	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)		φ 22	φ 28	φ 28	φ 28	φ 35	φ 35
供液接口 Liquid Line (mm)		φ 9.5	φ 12.7	φ 12.7	φ 12.7	φ 16	φ 16
尺寸 Size	L (mm)	820	1320	1320	1320	1320	1320
	W (mm)	655	655	655	655	655	655
	H (mm)	815	1065	1065	1065	1065	1065
安装尺寸 Install A×B (mm)		335×615	635×615	635×615	635×615	635×615	635×615
外形图 Dimension Drawing		A	B	B	B	B	B

标准设计:环境温度32°C。  
Design condition, ambient 32 degree.

机组型号 Model		BUB14LBBY	BUB18LBBY	BUB23LBBY	BUB28LBBY	BUB28LBBY	BUB34LBBY
电源 Power Supply		3P/380V/50HZ					
适用温度 Apply Temp.		-15°C~30°C					
压缩机 Comp.	型号 Model	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6HE-28Y	6GE-34Y
	最大电流 Max. I (A)	26.6	36.7	43.9	52.8	53.2	65.5
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	1.1	2.2	2.2	2.2	3.5	3.5
	功率 Power (W)	220×2	548×2	548×2	548×2	937×2	937×2
	转速 Rev. (r/min)	1380	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)		φ 35	φ 42	φ 54	φ 54	φ 54	φ 54
供液接口 Liquid Line (mm)		φ 16	φ 22	φ 22	φ 22	φ 22	φ 22
尺寸 Size	L (mm)	1320	1620	1620	1620	1920	1920
	W (mm)	655	805	805	805	905	905
	H (mm)	1065	1205	1205	1205	1305	1305
安装尺寸 Install A×B (mm)		635×615	700×765	700×765	700×765	1000×865	1000×865
外形图 Dimension Drawing		B	B	B	B	B	B

标准设计:环境温度32°C。  
Design condition, ambient 32 degree.

3.2 机组外形尺寸图  
Dimension Drawing



3.3 机组冷量表  
Cooling capacity data

3.3.1 中温机组冷量表 (W):  
Medium temp. units (W):

机组型号 Model		环境温度 Ambient (°C)	蒸发温度 Evaporating temperature (°C)				
			0	-5	-10	-15	
BUB03MBB	R22	25	8620	7250	5950	4900	4000
		32	7830	6570	5370	4400	3550
		42	6800	5670	4600	3750	3000
BUB03MBBY	R404A R507A	25	8900	7560	6210	5160	4230
		32	7660	6500	5300	4400	3600
		42	5770	4900	4000	3300	2680
BUB05MBB	R22	25	13600	11400	9400	7700	6260
		32	12300	10300	8400	6900	5550
		42	10600	8800	7200	5800	4640
BUB05MBBY	R404A R507A	25	14300	12100	9900	8200	6700
		32	12300	10400	8500	7100	5800
		42	9300	7900	6450	5370	4400
BUB06MBB	R22	25	16770	14100	11810	9800	7980
		32	15530	13100	10960	8920	7220
		42	13920	11450	9450	7700	6180
BUB06MBBY	R404A R507A	25	17290	14560	12280	10250	8370
		32	15300	13060	11030	9000	7360
		42	12530	10290	8620	7130	5810
BUB07MBB	R22	25	20000	16800	14110	11730	9570
		32	18530	15660	13110	10700	8680
		42	--	13720	11350	9270	7460
BUB07MBBY	R404A R507A	25	20800	17530	14800	12370	10140
		32	18530	15800	13350	10920	8940
		42	--	12600	10530	8710	7110
BUB09MBB	R22	25	24500	20700	17400	14500	11840
		32	22800	19300	16200	13200	10800
		42	20500	17000	14100	11500	9300
BUB09MBBY	R404A R507A	25	25200	21200	17800	14900	12200
		32	22600	19150	16120	13160	10800
		42	18800	15400	12800	10500	8540
BUB12MBB	R22	25	32200	26900	22400	18500	14900
		32	30000	25200	20900	16950	13600
		42	27000	22100	18100	14650	11650
BUB12MBBY	R404A R507A	25	32100	26900	22600	18800	15340
		32	28500	24200	20300	16500	13400
		42	23600	19200	15900	13000	10500



机组型号 Model		环境温度 Ambient (°C)	蒸发温度 Evaporating temperature (°C)				
			0	-5	-10	-15	-20
BUB15MBB	R22	25	37000	30900	25700	21100	17000
		32	34400	28800	23900	19200	15400
		42	30800	25100	20500	16500	13000
BUB15MBBY	R404A R507A	25	36900	30800	25800	21400	17340
		32	32600	27500	23000	18600	15000
		42	26800	21700	17820	14500	11600
BUB20MBB	R22	25	43500	36400	30300	25000	20100
		32	40500	34000	28200	22800	18300
		42	--	29700	24300	19700	15600
BUB20MBBY	R404A R507A	25	43800	36700	30800	25700	20900
		32	38900	33000	27700	22500	18240
		42	--	26200	21700	17750	14300
BUB25MBB	R22	25	57900	48400	40400	33400	27000
		32	53900	45400	37800	30600	24600
		42	--	39800	32700	26600	21200
BUB25MBBY	R404A R507A	25	57200	48300	40800	34200	28100
		32	50900	43500	36800	30100	24700
		42	--	34700	29000	23900	19500
BUB30MBB	R22	25	67000	56100	46900	38800	31400
		32	62500	52600	43900	35700	28800
		42	--	46400	38200	31000	24800
BUB30MBBY	R404A R507A	25	65500	55400	46900	39400	32400
		32	58300	49900	42300	34700	28500
		42	--	39700	33300	27600	22600

备注:冷量基于10K过热度、0K过冷度。

Remark: The cooling capacity is based on 10K superheat and 0K supercooling.

3.3.2 低温机组冷量表(W):  
Low temp. units (W):

机组型号 Model		环境温度 Ambient (°C)	蒸发温度 Evaporating temperature (°C)				
			-20	-25	-30	-35	-40
BUB03LBBY	R404A R507A	25	5400	4500	3600	2800	2000
		32	4600	3750	3100	2400	1700
		42	3550	2870	2300	1700	1200
BUB04LBBY	R404A R507A	25	7320	6100	4820	3800	2820
		32	6300	5100	4140	3230	2400
		42	4900	3950	3130	2420	1750
BUB05LBBY	R404A R507A	25	8740	7230	5800	4520	3400
		32	7520	6100	5000	3900	2900
		42	5900	4730	3730	2900	2100
BUB06LBBY	R404A R507A	25	10500	8700	6900	5400	4000
		32	9000	7200	5900	4600	3330
		42	7100	5650	4400	3400	2420
BUB09LBBY	R404A R507A	25	13400	10800	8500	6550	4800
		32	11500	9150	7200	5480	3900
		42	8600	6820	5300	4000	2750
BUB12LBBY	R404A R507A	25	15100	12000	9390	7180	5170
		32	12430	9810	7840	5910	4150
		42	9430	7370	5620	4140	2770
BUB14LBBY	R404A R507A	25	18240	14600	11520	8920	6550
		32	15600	12400	9730	7460	5370
		42	11600	9200	7100	5350	3710

机组型号 Model		环境温度 Ambient (°C)	蒸发温度 Evaporating temperature (°C)				
			-20	-25	-30	-35	-40
BUB18LBBY	R404A R507A	25	25300	20500	16340	12800	9500
		32	21800	17600	14000	10870	7950
		42	16700	13400	10550	8100	5760
BUB23LBBY	R404A R507A	25	29500	24000	19220	15130	11340
		32	25600	20800	16580	13000	9620
		42	19600	15910	12660	9840	7170
BUB28LBBY/4FE	R404A R507A	25	35100	28600	23000	18120	13600
		32	30500	24800	19800	15540	11500
		42	23500	19100	15150	11700	8400
BUB28LBBY/6HE	R404A R507A	25	36300	30100	24100	18900	14100
		32	31300	25300	20600	16600	11800
		42	24600	19700	15500	11900	8500
BUB34LBBY	R404A R507A	25	43900	35900	29000	23000	17400
		32	38300	31300	25100	19800	14800
		42	29600	24100	19300	15100	11000

备注:冷量基于10K过热度、0K过冷度。

Remark: The cooling capacity is based on 10K superheat and 0K supercooling.

3.4 机组标准配置及可选配置  
Standard Configuration and Optional Configuration

3.4.1 中温机组  
Medium temp. unit:

机组配件 Parts	BUB-B 机组型号 Model of Unit									
	-03M	-05M	-06M	-07M	-09M	-12M	-15M	-20M	-25M	-30M
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	▲	●	●	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	▲	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●	●
AC电机 AC Motor	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●
视镜 Sight Glass	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●	●	●
油压保护 Oil Pressure Switch	/	▲	▲	▲	▲	▲	▲	▲	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;

Explain: ● Standard Configuration; ▲ Optional, need extra costs;



3.4.2 低温机组  
Low temp. unit:

机组配件 Parts	BUB-B 机组型号 Model of Unit										
	-03L	-04L	-05L	-06L	-09L	-12L	-14L	-18L	-23L	-28L	-34L
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	●	●	●	●	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●	●	●	●
油压保护 Oil Pressure Switch	/	▲	▲	▲	▲	▲	▲	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain: Remark:● Standard Configuration;▲ Optional,need extra costs;

4、主要技术参数 / Technical Data:

4.1 富士豪压缩机系列机组

Series Units With Frascold Semi-hermetic Compressor

4.1.1 中温机组

Medium Temp. Unit

1) 制冷剂 Refrigerant R22/R404A/R507A

机组型号 Model	BUB03MBFY	BUB04MBFY	BUB05MBFY	BUB07MBFY	BUB12MBFY	
电源 Power Supply	3P/380V/50HZ					
适用温度 Apply Temp.	-5°C~5°C					
压缩机 Comp.	型号 Model	D3-13.1Y	D4-18.1Y	Q5-24.1Y	Q7-33.1Y	S12-42Y
	最大电流 Max.I (A)	8.8	12.5	13.8	20.0	22.4
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	0.52	1.1	1.1	1.75	1.75
	功率 Power (W)	220	220×2	220×2	937	937
	转速 Rev. (r/min)	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)	φ 28	φ 28	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	
尺寸 Size	L (mm)	820	1320	1320	1020	1020
	W (mm)	655	655	655	905	905
	H (mm)	815	1065	1065	1205	1205
安装尺寸 Install A×B (mm)	335×615	635×615	635×615	460×865	460×865	
外形图 Dimension Drawing	A	B	B	A	A	

设计工况:环境温度32°C。  
Design condition,ambient 32 degree.

机组型号 Model	BUB15MBFY	BUB20MBFY	BUB25MBFY	BUB30MBFY	
电源 Power Supply	3P/380V/50HZ				
适用温度 Apply Temp.	-5°C~5°C				
压缩机 Comp.	型号 Model	S15-52Y	S20-56Y	V25-71Y	V30-84Y
	最大电流 Max. I (A)	32.4	38.4	43.5	49.2
风机 Fan	电压 Voltage (V)	3P/380V/50HZ			
	电流 Current (A)	2.2	2.2	3.5	3.5
	功率 Power (W)	548×2	548×2	937×2	937×2
	转速 Rev. (r/min)	1380	1380	1380	1380
吸气接口 Suction Line (mm)	φ 42	φ 42	φ 54	φ 54	
供液接口 Liquid Line (mm)	φ 22	φ 22	φ 22	φ 28	
尺寸 Size	L (mm)	1620	1620	1920	1920
	W (mm)	805	805	905	905
	H (mm)	1205	1205	1305	1305
安装尺寸 Install A×B (mm)	700×765	700×765	1000×865	1000×865	
外形图 Dimension Drawing	B	B	B	B	

设计工况:环境温度32°C。  
Design condition,ambient 32 degree.

4.1.2 低温机组

Low Temp. Unit

1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model	BUB02LBFY	BUB03LBFY	BUB05LBFY	BUB08LBFY	BUB10LBFY	
电源 Power Supply	3P/380V/50HZ					
适用温度 Apply Temp.	-15°C~-30°C					
压缩机 Comp.	型号 Model	D2-13.1Y	D3-18.1Y	Q5-33.1Y	S8-42Y	S10-52Y
	最大电流 Max.I (A)	7.1	10.0	14.4	20.3	24.5
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	0.52	0.52	1.1	1.1	1.1
	功率 Power (W)	220	220	548	548	548
	转速 Rev. (r/min)	1380	1380	1380	1380	1380
吸气接口 Suction Line (mm)	φ 22	φ 28	φ 35	φ 35	φ 35	
供液接口 Liquid Line (mm)	φ 12.7	φ 12.7	φ 16	φ 16	φ 16	
尺寸 Size	L (mm)	820	820	1320	1320	1320
	W (mm)	655	655	655	655	655
	H (mm)	815	815	1065	1065	1065
安装尺寸 Install A×B (mm)	335×615	335×615	635×615	635×615	635×615	
外形图 Dimension Drawing	A	A	B	B	B	

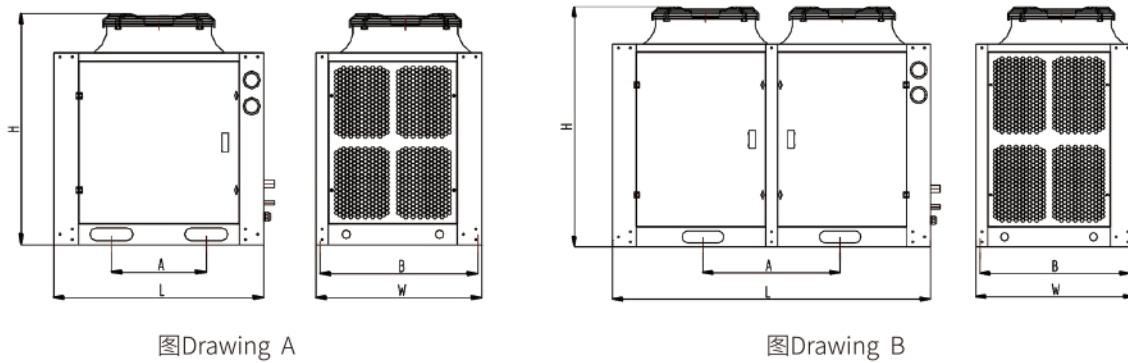
设计工况:环境温度32°C。  
Design condition,ambient 32 degree.



机组型号 Model		BUB15LBFY/S15	BUB15LBFY/V15	BUB20LBFY	BUB25LBFY	BUB30LBFY
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-15℃~-30℃				
压缩机 Comp.	型号 Model	S15-56Y	V15-71Y	V20-84Y	V25-103Y	Z30-126Y
	最大电流 Max.I (A)	30.7	32.2	46.2	52.3	55.7
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	1.75	2.2	2.2	2.2	3.5
	功率 Power (W)	937	548×2	548×2	548×2	937×2
	转速 Rev. (r/min)	1380	1380	1380	1363	1380
吸气接口 Suction Line (mm)		φ 42	φ 42	φ 54	φ 54	φ 54
供液接口 Liquid Line (mm)		φ 16	φ 22	φ 22	φ 22	φ 22
尺寸 Size	L (mm)	1020	1620	1620	1620	1920
	W (mm)	905	805	805	805	905
	H (mm)	1205	1205	1205	1205	1305
安装尺寸 Install A×B (mm)		460×865	700×765	700×765	700×765	1000×865
外形图 Dimension Drawing		A	B	B	B	B

设计工况:环境温度32℃。  
Design condition, ambient 32 degree.

#### 4.2 机组外形尺寸图 Dimension Drawing



#### 4.3 机组冷量表 Cooling capacity data of units

##### 4.3.1 中温机组冷量表 (W) : Medium Temp. unit (W) :

机组型号 Model	环境温度 Ambient (°C)	蒸发温度 Evaporating temperature (°C)					
		0	-5	-10	-15	-20	
BUB03MBFY	R22	25	10000	8600	7200	6000	4900
		32	9400	7800	6500	5500	4500
		42	8200	6900	5800	4700	3800
	R404A R507A	25	9900	8400	7200	6000	4850
		32	8700	7400	6200	5200	4300
		42	7350	5900	5000	4200	3400
BUB04MBFY	R22	25	13700	11600	9900	8200	6800
		32	12700	10700	9000	7600	6200
		42	11200	9500	8000	6600	5400
	R404A R507A	25	13400	11500	9900	8300	6850
		32	11800	10100	8600	7400	6100
		42	9950	8300	7100	6000	5000

机组型号 Model	环境温度 Ambient (°C)	蒸发温度 Evaporating temperature (°C)					
		0	-5	-10	-15	-20	
BUB05MBFY	R22	25	18000	15120	12640	10440	8460
		32	16740	14150	11830	9640	7780
		42	14970	12370	10270	8400	6760
	R404A R507A	25	17820	15300	13100	11040	9070
		32	15760	13740	11810	9785	8050
		42	12930	10930	9377	7910	6538
BUB07MBFY	R22	25	24486	20760	17585	14800	12280
		32	22935	19584	16614	13830	11470
		42	20780	17430	14730	12340	10230
	R404A R507A	25	24580	21180	18220	15460	12830
		32	21868	19138	16538	13820	11500
		42	18130	15425	13320	11340	9490
BUB12MBFY	R22	25	32800	27600	23200	24000	15650
		32	30300	25700	21600	22100	14340
		42	--	22200	19100	19100	12320
	R404A R507A	25	30500	25800	21800	22940	14900
		32	27100	23150	19600	20230	13000
		42	--	18440	15300	16200	10200
BUB15MBFY	R22	25	41220	34630	28950	23900	24500
		32	38100	32230	26960	21900	22600
		42	33700	27850	23100	18900	19600
	R404A R507A	25	39600	33660	28700	24200	25100
		32	35500	30540	26100	21610	22500
		42	29900	24850	21050	17650	18500
BUB20MBFY	R22	25	43900	37200	31700	26800	22200
		32	40600	34600	29500	24500	20220
		42	--	30000	25400	21200	17400
	R404A R507A	25	43500	37000	31600	26700	22100
		32	39000	33600	28700	23800	19700
		42	--	27400	23200	19500	16100
BUB25MBFY	R22	25	53600	45300	38500	32600	27000
		32	50200	42700	36200	30200	25000
		42	--	37900	32000	26800	22000
	R404A R507A	25	53800	45400	38400	32100	26200
		32	47700	40700	34400	28100	22900
		42	--	32400	27000	22300	18100
BUB30MBFY	R22	25	62800	53200	45200	38300	31800
		32	58800	50000	42500	35500	29400
		42	--	44600	37600	31600	26100
	R404A R507A	25	64500	54600	46300	38800	31800
		32	57500	49200	41700	34100	27900
		42	--	39400	33000	27300	22300

备注:冷量基于10K过热度、0K过冷度。  
Remark: The cooling capacity is based on 10K superheat and 0K supercooling.



4.3.2 低温机组冷量表(W) :  
Low temp. unit (W) :

机组型号 Model		环境温度 Ambient (°C)	蒸发温度 Evaporating temperature (°C)				
			-20	-25	-30	-35	-40
BUB02LBFY	R404A	25	4300	3500	2800	2200	1600
	R507A	32	3700	3000	2440	1900	1400
		42	3000	2400	1940	1500	1100
BUB03LBFY	R404A	25	5900	5000	4000	3200	2400
	R507A	32	5150	4200	3500	2760	2140
		42	4200	3400	2760	2200	1680
BUB05LBFY	R404A	25	11530	9540	7755	6174	4690
	R507A	32	9980	8280	6878	5470	4130
		42	8290	6910	5640	4485	3356
BUB08LBFY	R404A	25	15210	12490	10000	7820	5730
	R507A	32	13000	10720	8800	6830	4910
		42	10460	8660	6950	5350	3710
BUB10LBFY	R404A	25	17500	14400	11700	9300	7000
	R507A	32	15400	12600	10300	8100	6000
		42	12100	9900	8000	6220	4400
BUB15LBFY/S15	R404A	25	19450	16000	12900	10200	7600
	R507A	32	17000	14000	11200	8800	6400
		42	13300	10900	8700	6700	4600
BUB15LBFY/V15	R404A	25	23850	19600	15900	12600	9400
	R507A	32	20880	17100	13800	10900	7930
		42	16400	13400	10700	8300	5700
BUB20LBFY	R404A	25	27630	22400	17800	13760	10000
	R507A	32	23800	19400	15500	12000	8700
		42	18000	14800	11900	9300	6770
BUB25LBFY	R404A	25	34300	27700	21850	16700	12000
	R507A	32	29700	23900	18740	14300	10100
		42	22700	18000	14050	10600	7400
BUB30LBFY	R404A	25	41200	33250	26300	20200	14700
	R507A	32	35500	28600	22600	17300	12400
		42	27100	21900	17200	13200	9300

备注:冷量基于10K的过热度、0K的过冷度。  
Remark: The cooling capacity is based on 10K superheat and 0K supercooling.

4.4 机组标准配置及可选配置表  
Standard Configuration and Optional Configuration

4.4.1 中温机组  
Medium temp. unit

机组配件 Parts	BUB-F 机组型号 Model of unit								
	-03M	-04M	-05M	-07M	-12M	-15M	-20M	-25M	-30M
压缩机 Compressor	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	●	●	●	●	●	●
油分离器 Oil Separator	▲	▲	▲	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●	●
油压保护 Oil Pressure Switch	/	/	▲	▲	▲	▲	▲	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain:● Standard Configuration;▲ Optional,need extra costs;

4.4.2 低温机组  
Low Temp. Unit

机组配件 Parts	BUB-F 机组型号 Model of unit									
	-02L	-03L	-05L	-08L	-10L	-15L/S15	-15L/V15	-20L	-25L	-30L
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	●	●	●	●	●	●	●	●
油分离器 Oil Separator	▲	▲	●	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	▲	▲	●	●	●	●	●	●	●	●
油压保护 Oil Pressure Switch	/	/	▲	▲	▲	▲	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain:● Standard Configuration;▲ Optional,need extra costs;





**PU**

**系列立式箱式冷凝机组**  
Series Vertical Box-type Condensing Unit



**PU 系列立式箱式冷凝机组**

PU Series Vertical Box-type Condensing Unit

**1、产品概述 / Product description:**

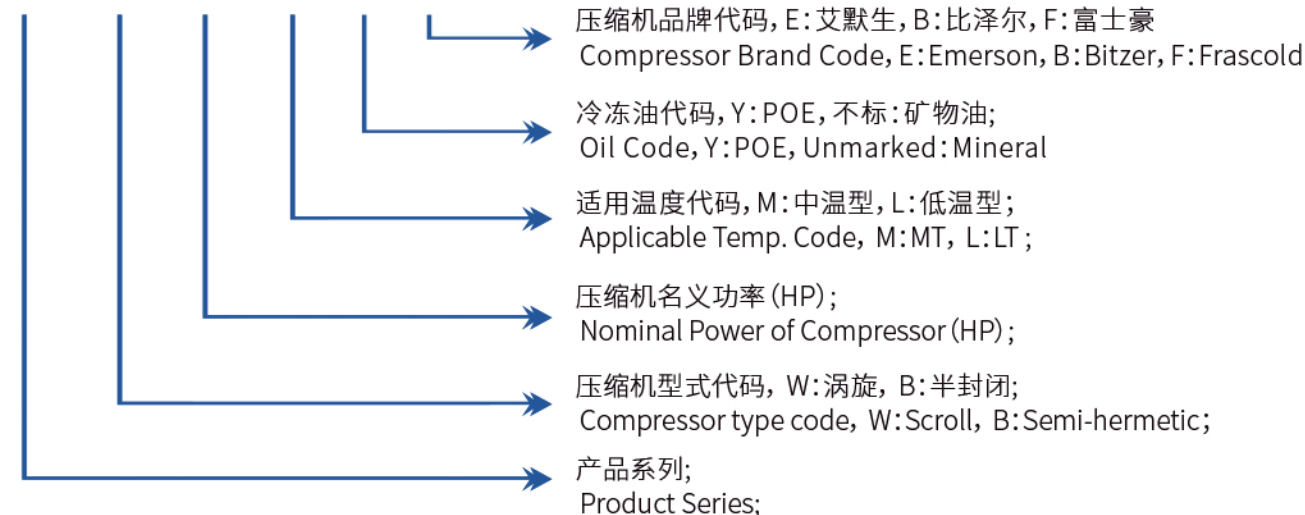
PU 系列立式箱型冷凝机组具有如下特点:

PU series vertical box-type condensation units have the following characteristics:

- 1 产品采用立式箱型结构, 风机侧装, 有效防止灰尘、雨水等进入机箱内;  
The product adopts vertical box-type structure, fan side installation, effectively prevent dust, rain water and so on into the cabinet;
- 2 高风筒设计, 噪音小、外形美观;  
High air duct design, low noise, beautiful appearance;
- 3 机箱盖采用铰链式的结构, 维护操作方便;  
The cover of the case adopts hinge structure, which is easy to maintain and operate;
- 4 压缩机采用艾默生的 ZB 及带喷气增焓的 ZFI 系列涡旋压缩机或比泽尔的半封闭压缩机, 可满足中温及低温的应用;  
Compressor uses Emerson ZB and ZFI series scroll compressor or Bitzer semi-hermetic compressor to meet the application of medium temperature and low temperature;
- 5 采用 U 型冷凝器结构, 具有迎风面大、风阻小、换热效果好;  
Adopt U-type condenser, it has large windward side, small wind resistance and good heat transfer effect;
- 6 可满足 R22、R404A、R507A、R448A、R449A 等制冷剂使用;  
It can meet the requirements of R22, R404A, R507A, R448A, R449A and other refrigerants.

**2、产品型号说明 / Model Explanation:**

**PU W 15 M Y E**





### 3、主要技术参数 / Technical data:

#### 3.1 爱默生涡旋压缩机的机组

Unit with Emerson scroll compressor

##### 3.1.1 中温机组 Medium temperature unit R404A/R507A

机组型号 Model		PUW05MYE	PUW06MYE	PUW08MYE	PUW10MYE	PUW13MYE	
电源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型号 Model	ZB38KQE	ZB45KQE	ZB58KQE	ZB76KQE	ZB95KQE	
	最大电流 Max. I(A)	13.5	16.1	23.0	26.9	31.0	
冷量/功率 Capacity/ Power (KW)	蒸发 Evap.	-5℃	9.8/4.4	11.1/5.0	14.7/6.6	19.6/8.6	24.0/11.2
		-8℃	8.7/4.2	10.2/4.8	13.6/6.3	18.1/8.3	22.1/10.7
		-10℃	8.2/4.1	9.6/4.6	12.7/6.2	17.0/8.1	20.8/10.4
		-15℃	6.9/3.9	8.1/4.4	10.6/5.9	14.2/7.6	17.4/9.9
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	0.92	0.92	0.92	1.75	2.2	
	功率 Power (W)	220×2	220×2	220×2	937×1	548×2	
	转速 Rev. (r/min)	1362	1362	1362	1378	1380	
吸气接口 Suction Line (mm)		φ22	φ22	φ28	φ35	φ35	
供液接口 Liquid Line (mm)		φ12	φ12	φ12	φ16	φ16	
尺寸 Size	L (mm)	1470	1470	1470	1020	1620	
	W (mm)	800	800	800	1100	1000	
	H (mm)	1465	1465	1465	1695	1695	

备注:参数标定工况,环境温度 32℃;

Parameter calibration condition, ambient temperature 32℃

机组型号 Model		PUW15MYE	PUW20MYE	PUW22MYE	PUW25MYE	
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		-5℃~5℃				
压缩机 Comp.	型号 Model	ZB114KQE	ZB130KQE	ZB150KQE	ZB190KQE	
	最大电流 Max. I(A)	38.0	33.1	38.0	48.3	
冷量/功率 Capacity/ Power (KW)	蒸发 Evap.	-5℃	28.5/13.2	31.1/13.6	37.7/17.1	47.2/21.4
		-8℃	26.2/12.7	28.6/13.0	34.7/16.3	43.5/20.4
		-10℃	24.5/12.4	26.7/12.7	32.6/15.9	40.8/20.0
		-15℃	20.4/11.8	22.3/12.0	27.5/15.1	34.5/19.0
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	2.2	2.2	3.5	3.5	
	功率 Power (W)	548×2	548×2	937×2	937×2	
	转速 Rev. (r/min)	1380	1380	1378	1378	
吸气接口 Suction Line (mm)		φ35	φ42	φ42	φ42	
供液接口 Liquid Line (mm)		φ16	φ22	φ22	φ22	
尺寸 Size	L (mm)	1620	1620	1920	1920	
	W (mm)	1000	1000	1100	1100	
	H (mm)	1695	1695	1915	1915	

备注:参数标定工况,环境温度 32℃;

Parameter calibration condition, ambient temperature 32℃

##### 3.1.1 中温机组 Medium temperature unit R404A/R507A

机组型号 Model		PUW06LYE	PUW08LYE	PUW10LYE	PUW12LYE	PUW15LYE	PUW18LYE	
电源 Power Supply		3P/380V/50Hz						
适用温度 Apply Temp.		-15℃~35℃						
压缩机 Comp.	型号 Model	ZFI26KQE	ZFI36KQE	ZFI39KQE	ZFI50KQE	ZFI59KQE	ZFI68KQE	
	最大电流 Max. I(A)	13.7	16.0	18.1	25.0	29.0	30.0	
冷量/功率 Capacity/ Power (KW)	蒸发 Evap.	-20℃	9.7/5.5	12.0/6.7	13.8/8.1	16.5/8.9	20.0/10.8	22.6/12.5
		-25℃	8.2/5.1	10.4/6.2	11.9/7.5	14.0/8.2	17.0/9.9	19.2/11.6
		-30℃	7.0/4.7	8.8/5.6	10.1/6.8	11.7/7.5	14.2/9.1	16.0/10.6
		-35℃	5.9/4.3	7.4/5.2	8.5/6.2	9.9/6.9	12.0/8.4	13.5/9.7
风机 Fan	电压 Voltage (V)	3P/380V/50HZ						
	电流 Current (A)	0.92	0.92	0.92	0.92	1.75	2.2	
	功率 Power (W)	220×2	220×2	220×2	220×2	937×1	548×2	
	转速 Rev. (r/min)	1362	1362	1362	1362	1378	1380	
吸气接口 Suction Line (mm)		φ22	φ22	φ22	φ35	φ35	φ35	
供液接口 Liquid Line (mm)		φ12	φ12	φ12	φ16	φ16	φ16	
尺寸 Size	L (mm)	1470	1470	1470	1470	1020	1620	
	W (mm)	800	800	800	800	1100	1000	
	H (mm)	1465	1465	1465	1465	1695	1695	

备注:参数标定工况,环境温度 32℃,带 EVI 运行;

Parameter calibration condition, ambient temperature 32℃, with EVI operation

#### 3.2 比泽尔半封闭压缩机的机组

Unit with Bitzer semi-hermetic compressor

##### 3.2.1 中温机组 Medium temperature unit R404A/R507A

机组型号 Model		PUB05MYB	PUB06MYB	PUB07MYB	PUB09MYB	PUB12MYB	
电源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-5℃~5℃					
压缩机 Comp.	型号 Model	4FES-5Y	4EES-6Y	4DES-7Y	4CES-9Y	4TES-12Y	
	最大电流 Max. I(A)	10.8	13.6	16.5	20.2	25.2	
冷量/功率 Capacity/ Power (KW)	蒸发 Evap.	-5℃	10.2/4.5	12.9/5.8	15.6/6.7	18.7/8.2	23.6/10.3
		-8℃	9.1/4.2	11.4/5.3	13.4/6.2	16.7/7.8	21.2/9.6
		-10℃	8.5/4.1	10.8/5.3	12.9/6.2	15.6/7.4	19.6/9.2
		-15℃	7.1/3.7	9.0/4.7	10.7/5.6	12.9/6.7	16.1/8.1
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	0.92	0.92	0.92	1.75	2.2	
	功率 Power (W)	220×2	220×2	220×2	937×1	548×2	
	转速 Rev. (r/min)	1362	1362	1362	1378	1380	
吸气接口 Suction Line (mm)		φ22	φ28	φ28	φ28	φ35	
供液接口 Liquid Line (mm)		φ12	φ12	φ12	φ16	φ16	
尺寸 Size	L (mm)	1470	1470	1470	1020	1620	
	W (mm)	800	800	800	1100	1000	
	H (mm)	1465	1465	1465	1695	1695	

备注:参数标定工况,环境温度 32℃;

Parameter calibration condition, ambient temperature 32℃



机组型号 Model		PUB15MYB	PUB20MYB	PUB25MYB	PUB30MYB	
电源 Power Supply		3P/380V/50Hz				
适用温度 Apply Temp.		-5℃~5℃				
压缩机 Comp.	型号 Model	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	
	最大电流 Max. I(A)	28.2	33.2	44.0	51.2	
冷量/功率 Capacity/Power (KW)	蒸发 Evap.	-5℃	27.0/11.4	32.2/13.8	43.2/18.6	49.9/22.2
		-8℃	24.2/10.6	28.9/13.0	39.0/17.5	45.2/20.8
		-10℃	22.3/10.2	26.7/12.4	36.2/16.7	42.0/19.9
		-15℃	18.2/9.0	21.9/11.0	30.1/15.0	35.0/17.8
风机 Fan	电压 Voltage (V)	3P/380V/50HZ				
	电流 Current (A)	2.2	2.2	3.5	3.5	
	功率 Power (W)	548×2	548×2	937×2	937×2	
	转速 Rev. (r/min)	1380	1380	1378	1378	
吸气接口 Suction Line (mm)		φ42	φ42	φ54	φ54	
供液接口 Liquid Line (mm)		φ22	φ22	φ22	φ22	
尺寸 Size	L (mm)	1620	1620	1920	1920	
	W (mm)	1000	1000	1100	1100	
	H (mm)	1695	1695	1915	1915	

备注:参数标定工况,环境温度 32℃;  
Parameter calibration condition, ambient temperature 32℃

机组型号 Model		PUB18LYB	PUB23LYB	PUB28LYB	PUB34LYB	PUB44LYB	
电源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15℃~35℃					
压缩机 Comp.	型号 Model	4HE-18Y	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y	
	最大电流 Max. I(A)	36.7	43.9	52.8	65.5	83.2	
冷量/功率 Capacity/Power (KW)	蒸发 Evap.	-20℃	20.7/13.8	24.2/16.4	29.0/19.7	36.4/25.0	43.4/30.0
		-25℃	16.7/12.0	19.7/14.3	23.5/17.1	29.7/21.8	35.3/26.2
		-30℃	13.2/10.3	15.7/12.2	18.8/14.7	23.8/18.8	28.2/22.6
		-35℃	10.2/8.7	12.3/10.4	14.7/12.4	18.8/16.0	22.0/19.3
		-40℃	7.7/7.3	9.3/8.7	11.2/10.3	14.4/13.4	16.7/16.2
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	2.2	2.2	2.2	3.5	3.5	
	功率 Power (W)	548×2	548×2	548×2	937×2	937×2	
	转速 Rev. (r/min)	1380	1380	1380	1378	1378	
吸气接口 Suction Line (mm)		φ42	φ54	φ54	φ54	φ54	
供液接口 Liquid Line (mm)		φ22	φ22	φ22	φ22	φ28	
尺寸 Size	L (mm)	1620	1620	1620	1920	1920	
	W (mm)	1000	1000	1000	1100	1100	
	H (mm)	1695	1695	1695	1915	1915	

备注:参数标定工况,环境温度 32℃;  
Parameter calibration condition, ambient temperature 32℃

### 3.2.1 低温机组 Low temperature unit R404A/R507A

机组型号 Model		PUB05LYB	PUB06LYB	PUB09LYB	PUB12LYB	PUB14LYB	
电源 Power Supply		3P/380V/50Hz					
适用温度 Apply Temp.		-15℃~-35℃					
压缩机 Comp.	型号 Model	4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y	4NES-14Y	
	最大电流 Max. I(A)	14.5	17.7	19.9	22.7	26.6	
冷量/功率 Capacity/Power (KW)	蒸发 Evap.	-20℃	7.3/5.2	8.8/6.2	10.8/7.4	12.0/8.1	14.7/10.0
		-25℃	5.9/4.6	7.0/5.4	8.6/6.4	9.5/6.9	11.7/8.6
		-30℃	4.7/3.9	5.6/4.6	6.7/5.4	7.3/5.8	9.1/7.2
		-35℃	3.6/3.3	4.3/3.9	5.1/4.4	5.5/4.7	7.0/6.0
		-40℃	2.8/2.8	3.2/3.2	3.8/3.6	4.0/3.8	5.2/4.9
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	0.92	0.92	0.92	0.92	0.92	
	功率 Power (W)	220×2	220×2	220×2	220×2	220×2	
	转速 Rev. (r/min)	1362	1362	1362	1362	1362	
吸气接口 Suction Line (mm)		φ28	φ28	φ35	φ35	φ35	
供液接口 Liquid Line (mm)		φ12	φ12	φ16	φ16	φ16	
尺寸 Size	L (mm)	1470	1470	1470	1470	1470	
	W (mm)	800	800	800	800	800	
	H (mm)	1465	1465	1465	1465	1465	

备注:参数标定工况,环境温度 32℃;  
Parameter calibration condition, ambient temperature 32℃

### 3.3 富士豪半封闭压缩机的机组

Unit with Frascold semi-hermetic compressor

#### 3.3.1 中温机组 Medium temperature unit R404A/R507A

机组型号 Model		PUB05MYF	PUB07MYF	PUB12MYF	PUB15MYF	PUB20MYF	PUB25MYF	PUB30MYF	
电源 Power Supply		3P/380V/50Hz							
适用温度 Apply Temp.		-5℃~5℃							
压缩机 Comp.	型号 Model	Q5-24.1Y	Q7-33.1Y	S12-42Y	S15-52Y	S20-56Y	V25-71Y	V30-84Y	
	最大电流 Max. I(A)	13.8	20.0	22.4	32.4	38.4	43.5	49.2	
冷量/功率 Capacity/Power (KW)	蒸发 Evap.	-5℃	13.2/5.9	18.4/8.4	22.6/9.7	29.9/12.3	32.8/14.4	42.1/14.5	49.4/17.5
		-8℃	11.9/5.6	16.7/7.9	20.4/9.0	27.1/11.9	29.7/13.6	38.2/13.7	44.8/16.5
		-10℃	11.0/5.4	15.5/7.6	18.9/8.6	25.3/11.6	27.6/13.0	35.6/13.2	41.7/15.9
		-15℃	9.1/4.8	12.9/6.8	15.6/7.7	21.2/10.4	23.0/11.6	29.8/11.9	35.1/14.4
		-20℃	7.7/4.8	10.9/6.8	13.5/7.7	18.8/10.4	20.4/11.6	27.0/11.9	32.4/14.4
风机 Fan	电压 Voltage (V)	3P/380V/50HZ							
	电流 Current (A)	0.92	1.75	1.75	2.2	2.2	3.5	3.5	
	功率 Power (W)	220×2	937×1	937×1	548×2	548×2	937×2	937×2	
	转速 Rev. (r/min)	1362	1378	1378	1380	1380	1378	1378	
吸气接口 Suction Line (mm)		φ28	φ35	φ35	φ42	φ42	φ54	φ54	
供液接口 Liquid Line (mm)		φ12	φ16	φ16	φ22	φ22	φ22	φ22	
尺寸 Size	L (mm)	1470	1020	1020	1620	1620	1920	1920	
	W (mm)	800	1100	1100	1000	1000	1100	1100	
	H (mm)	1465	1695	1695	1695	1695	1915	1915	

备注:参数标定工况,环境温度 32℃;  
Parameter calibration condition, ambient temperature 32℃

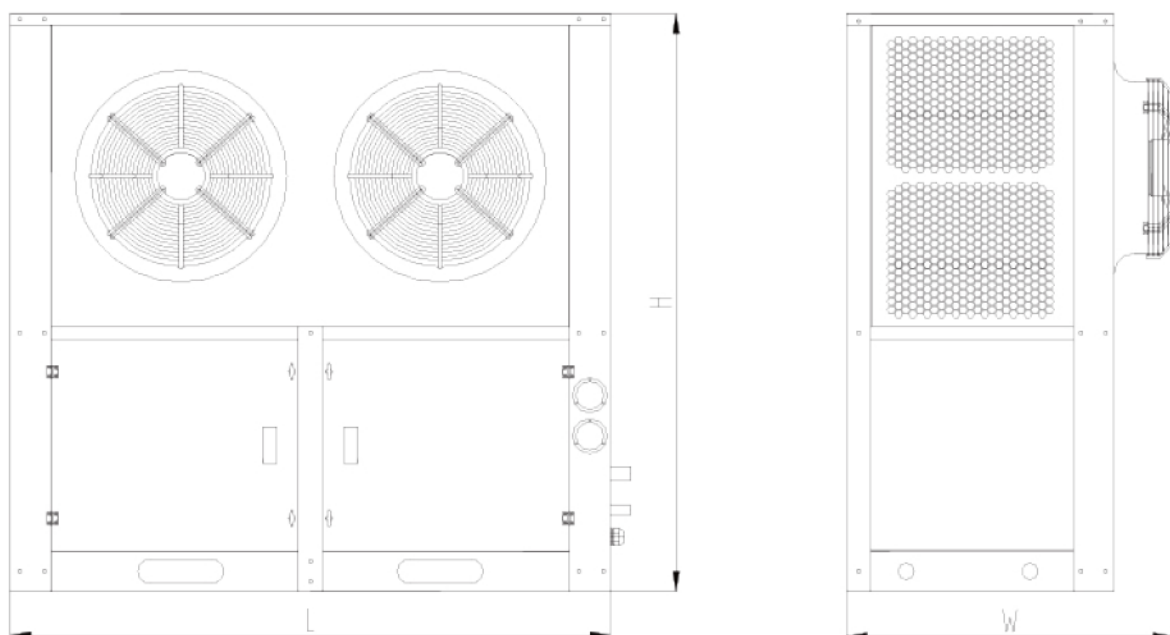


### 3.3.2 低温机组 Low temperature unit R404A/R507A

机组型号 Model		PUB05LYF	PUB08LYF	PUB10LYF	PUB15LYF	PUB20LYF	PUB25LYF	PUB30LYF	
电源 Power Supply		3P/380V/50Hz							
适用温度 Apply Temp.		-15℃~-35℃							
压缩机 Comp.	型号 Model	Q5-33.1Y	S8-42Y	S10-52Y	V15-71Y	V20-84Y	V25-103Y	Z30-126Y	
	最大电流 Max. I(A)	14.4	20.3	24.5	32.2	46.2	52.3	55.7	
冷量/功率 Capacity/ Power (KW)	蒸发 Evap.	-20℃	9.0/6.6	11.7/7.8	14.7/10.1	19.9/14.0	22.5/15.8	28.2/21.0	33.6/22.8
		-25℃	7.4/5.7	9.5/6.8	12.1/8.7	16.3/12.0	18.4/13.7	22.6/18.1	27.1/19.8
		-30℃	5.9/4.8	7.5/5.8	9.8/7.4	13.2/10.2	14.7/11.7	17.7/15.4	21.4/16.9
		-35℃	4.6/4.1	5.8/4.8	7.7/6.3	10.3/8.5	11.4/9.9	13.5/12.9	16.4/14.2
		-40℃	3.5/3.4	4.2/3.9	5.8/5.2	7.7/7.0	8.5/8.2	9.8/10.8	12.1/11.7
风机 Fan	电压 Voltage (V)	3P/380V/50HZ							
	电流 Current (A)	0.92	0.92	0.92	2.2	2.2	2.2	3.5	
	功率 Power (W)	220×2	220×2	220×2	548×2	548×2	548×2	937×2	
	转速 Rev. (r/min)	1362	1362	1362	1380	1380	1380	1378	
吸气接口 Suction Line (mm)		φ35	φ35	φ35	φ42	φ54	φ54	φ54	
供液接口 Liquid Line (mm)		φ16	φ16	φ16	φ22	φ22	φ22	φ22	
尺寸 Size	L (mm)	1470	1470	1470	1620	1620	1620	1920	
	W (mm)	800	800	800	1000	1000	1000	1100	
	H (mm)	1465	1465	1465	1695	1695	1695	1915	

备注:参数标定工况,环境温度 32℃;  
Parameter calibration condition, ambient temperature 32℃

### 4. 机组外形尺寸图 / Dimension drawing of units:



### 5. 机组标准配置及可选配置表 / Standard Configuration and Optional Configuration:

#### 5.1 采用涡旋压缩机的机组

Units for scroll compressor

#### 5.1.1 中温机组 Medium temp. unit

机组配件 Parts	PUW 型机组 Units of PUW model								
	05MYE	06MYE	08MYE	10MYE	13MYE	15MYE	20MYE	22MYE	25MYE
压缩机 Compressor	●	●	●	●	●	●	●	●	●
油加热带 Oil Heater	▲	▲	▲	▲	▲	▲	▲	▲	▲
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	▲	▲	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	▲	▲	●	●	●
冷凝器 Condensor	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●
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	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲
回气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;● Standard Configuration;▲ Optional,need extra costs

#### 5.1.2 低温机组 Low temp. unit

机组配件 Parts	PUW 型机组 Units of PUW model					
	带喷气增焓 With EVI					
	06LYE	08LYE	10LYE	12LYE	15LYE	18LYE
压缩机 Compressor	●	●	●	●	●	●
油加热带 Oil Heater	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	▲	▲
油分离器 Oil Separator	▲	▲	▲	▲	▲	▲
冷凝器 Condensor	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲
喷气增焓 EVI	●	●	●	●	●	●
高压保护 HP Switch	●	●	●	●	●	●
低压保护 LP Switch	●	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲
回气管接口阀 Suction Line Valve	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;● Standard Configuration;▲ Optional,need extra costs



5.2 采用半封闭压缩机的机组

Units for semi-hermetic compressor

5.2.1 采用比泽尔压缩机的机组 Units for bitzer compressor

1) 中温机组 Medium temp. unit:

机组配件 Parts	PUB-机组型号 Model of Unit								
	05MYB	06MYB	07MYB	09MYB	12MYB	15MYB	20MYB	25MYB	30MYB
压缩机 Compressor	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	●	●	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●
AC电机 AC Motor	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●	●
油压保护 Oil Pressure Switch	▲	▲	▲	▲	▲	▲	▲	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;● Standard Configuration;▲ Optional,need extra costs

2) 低温机组 Low temp. unit:

机组配件 Parts	PUB-机组型号 Model of Unit									
	05LYB	06LYB	09LYB	12LYB	14LYB	18LYB	23LYB	28LYB	34LYB	44LYB
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	●	●	●	●	●	●	●	●
油分离器 Oil Separator	▲	▲	●	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●	●
AC电机 AC Motor	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●	●	●
油压保护 Oil Pressure Switch	▲	▲	▲	▲	▲	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;● Standard Configuration;▲ Optional,need extra costs

5.2.2 采用富士豪压缩机的机组 Units for Frascold compressor

1) 中温机组 Medium temp. unit:

机组配件 Parts	PUB-机组型号 Model of Unit						
	05MYF	07MYF	12MYF	15MYF	20MYF	25MYF	30MYF
压缩机 Compressor	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	●	●	●	●	●
油分离器 Oil Separator	▲	▲	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●
AC电机 AC Motor	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●
油压保护 Oil Pressure Switch	▲	▲	▲	▲	▲	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;● Standard Configuration;▲ Optional,need extra costs

2) 低温机组 Low temp. unit:

机组配件 Parts	PUB-机组型号 Model of Unit						
	05LYF	08LYF	10LYF	15LYF	20LYF	25LYF	30LYF
压缩机 Compressor	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●
AC电机 AC Motor	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●
油压保护 Oil Pressure Switch	▲	▲	▲	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲
供液管接口阀 Liquid Line Valve	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;● Standard Configuration;▲ Optional,need extra costs





## HCU 系列半封闭压缩机风冷冷凝机组

HCU series Open-type Air-cooled Condensing unit With Semi-hermetic Compressor

### 1、产品概述 / Product description:

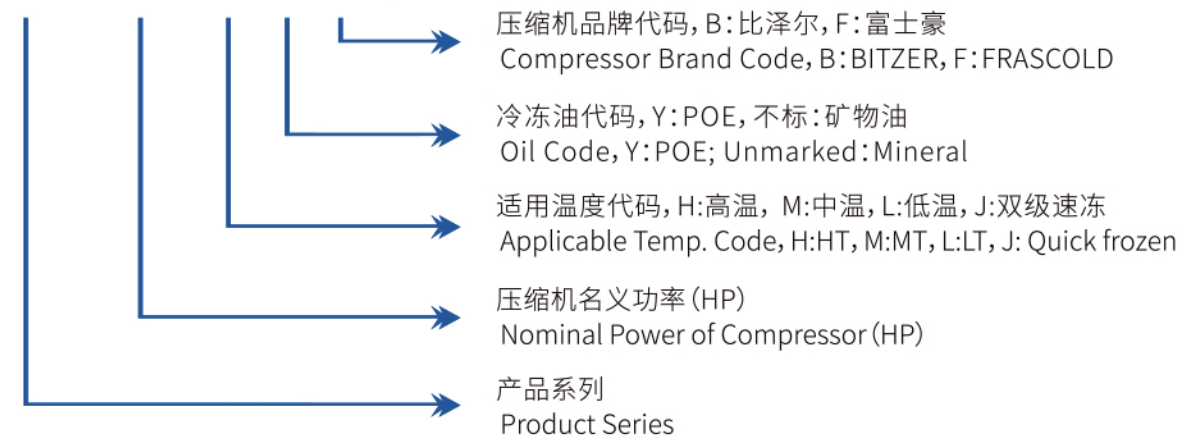
HCU 系列风冷冷凝机组具有如下特点:

HCU series open-type air-cool condensing units have the following characteristics

- 1 主机采用BITZER或FRASCOLD半封闭活塞式制冷压缩机,质量好、可靠性高;  
Adopted semi-hermetic piston compressors with BITZER or FRASCOLD, It has good quality and high reliability.
- 2 风冷冷凝器与压缩机及各种配件安装在一个整体的机架上,结构紧凑、操作检修方便;  
The air-cooled condenser, compressor and various accessories are installed on an integral frame, which is compact in structure and convenient in operation and maintenance;
- 3 采用整体拉伸的高风圈型的冷凝器,采用外转子风机,噪音小、效率高;  
Adopted high duct condenser with external rotor fan, which has low noise and high efficiency;
- 4 产品系列全,具有高温、中温、低温及双级速冻等工况设计,可满足各种温度的制冷设备使用;  
The product series is complete, It has high, medium, low temperature and quick frozen working conditions design. It can meet the needs of refrigeration equipment at various temperatures;
- 5 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用  
It can meet the requirements of R22, R404A, R507A, R448A, R449A and other refrigerants.

### 2、产品型号说明 / Model Explanation:

**HCU 20 M Y B**



**HCU**

## 系列半封闭压缩机风冷冷凝机组

series Open-type Air-cooled Condensing unit With Semi-hermetic Compressor





### 3、主要技术参数 / Technical data:

#### 3.1 比泽尔半封闭压缩机系列机组

Series Units With BITZER Semi-hermetic Compressor

##### 3.1.1 高温机组

High Temp. Unit

##### 1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		HCU-							
		02HYB	03HYB	03HYB	04HYB	05HYB	06HYB	07HYB	
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	2FES-3Y	2DES-3Y	2CES-4Y	4FES-5Y	4EES-6Y	4DES-7Y	
	最大电流 Max.I (A)	5.0	6.1	8.6	10.0	10.8	13.6	16.5	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ							
	电流 Current (A)	0.52	0.52	1.04	1.04	1.04	2.1	2.1	
	功率 Power (W)	240	240	240×2	240×2	240×2	240×4	240×4	
	转速 Rev. (r/min)	1330	1330	1330	1330	1330	1330	1330	
冷量/功率 Capacity/ Power (kW)	蒸发 Evap.	5°C	5.8/2.3	5.7/2.7	11.0/3.9	13.5/4.8	14.7/5.0	18.6/6.4	22.6/7.6
		0°C	5.0/2.1	6.2/2.5	9.6/3.5	11.8/4.3	12.9/4.6	16.2/5.9	19.6/7.0
		-5°C	4.3/1.9	5.2/2.3	8.1/3.2	10.0/4.0	10.9/4.3	13.7/5.4	16.5/6.5
吸气接口 Suction Line (mm)		φ 16	φ 16	φ 22	φ 22	φ 22	φ 28	φ 28	
供液接口 Liquid Line (mm)		φ 9.5	φ 9.5	φ 12	φ 12	φ 12	φ 16	φ 16	
尺寸 Size	A (mm)	850	850	1435	1435	1435	1435	1435	
	B (mm)	800	800	850	850	850	1000	1000	
	C (mm)	830	830	830	830	830	1430	1430	
安装尺寸 Install a×b (mm)		456×760	456×760	750×810	750×810	750×810	900×950	900×950	
外形示意图 Dimension Drawing		A	A	B	B	B	C	C	

备注:参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

机组型号 Model		HCU-							
		09HYB	12HYB	15HYB	20HYB	25HYB	30HYB	35HYB	
电源 Power Supply		3P/380V/50HZ							
适用温度 Apply Temp.		5~15°C							
压缩机 Comp.	型号 Model	4CES-9Y	4TES-12Y	4PES-15Y	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	
	最大电流 Max.I (A)	20.2	25.2	28.2	33.2	44.0	51.2	62.1	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ							
	电流 Current (A)	2.1	2.1	4.4	4.4	4.4	7.0	7.0	
	功率 Power (W)	240×4	240×4	548×4	548×4	548×4	937×4	937×4	
	转速 Rev. (r/min)	1330	1330	1380	1380	1380	1378	1378	
冷量/功率 Capacity/ Power (kW)	蒸发 Evap.	5°C	27.5/9.5	35.0/11.7	40.1/13.3	47.7/15.8	61.9/20.7	70.7/23.9	83.6/29.7
		0°C	23.8/8.7	30.2/10.6	34.5/12.1	41.0/14.3	53.8/18.9	61.6/21.8	73.3/27.1
		-5°C	20.0/8.0	25.3/9.7	28.8/11.0	34.5/13.0	45.4/17.2	52.0/19.9	62.3/24.8
吸气接口 Suction Line (mm)		φ 28	φ 35	φ 42	φ 42	φ 54	φ 54	φ 54	
供液接口 Liquid Line (mm)		φ 16	φ 16	φ 22	φ 22	φ 22	φ 22	φ 22	
尺寸 Size	A (mm)	1435	1435	1550	1550	1550	1800	1800	
	B (mm)	1000	1000	1150	1150	1150	1300	1300	
	C (mm)	1430	1430	1630	1630	1630	1880	1880	
安装尺寸 Install a×b (mm)		900×950	900×950	900×1100	900×1100	900×1100	920×1250	920×1250	
外形图 Dimension Drawing		C	C	C	C	C	C	C	

备注:参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

##### 3.1.2 中温型机组

Medium temp. units

##### 1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		HCU02MYB	HCU03MYB	HCU03MYB	HCU04MYB	HCU05MYB	
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	2FES-3Y	2DES-3Y	2CES-4Y	4FES-5Y	
	最大电流 Max.I (A)	5.0	6.1	8.6	10.0	10.8	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	0.52	0.52	1.04	1.04	1.04	
	功率 Power (W)	240	240	240×2	240×2	240×2	
	转速 Rev. (r/min)	1330	1330	1330	1330	1330	
冷量/功率 Capacity/ Power (kW)	蒸发 Evap.	-5°C	4.0/2.0	4.9/2.4	7.6/3.4	9.4/4.1	10.2/4.5
		-10°C	3.3/1.8	4.1/2.2	6.4/3.1	7.9/3.7	8.5/4.1
		-15°C	2.8/1.6	3.4/2.0	5.3/2.8	6.6/3.4	7.1/3.7
吸气接口 Suction Line (mm)		φ 16	φ 16	φ 22	φ 22	φ 22	
供液接口 Liquid Line (mm)		φ 9.5	φ 9.5	φ 12	φ 12	φ 12	
尺寸 Size	A (mm)	850	850	1435	1435	1435	
	B (mm)	800	800	850	850	850	
	C (mm)	830	830	830	830	830	
安装尺寸 Install a×b (mm)		456×760	456×760	750×810	750×810	750×810	
外形图 Dimension Drawing		A	A	B	B	B	

备注:参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

机组型号 Model		HCU06MYB	HCU07MYB	HCU09MYB	HCU12MYB	HCU15MYB	
电源 Power Supply		3P/380V/50HZ					
适用温度 Apply Temp.		-5°C~5°C					
压缩机 Comp.	型号 Model	4EES-6Y	4DES-7Y	4CES-9Y	4TES-12Y	4PES-15Y	
	最大电流 Max.I (A)	13.6	16.5	20.2	25.2	28.2	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	1.04	2.1	2.1	2.1	2.1	
	功率 Power (W)	240×2	240×4	240×4	240×4	240×4	
	转速 Rev. (r/min)	1330	1330	1330	1330	1330	
冷量/功率 Capacity/ Power (kW)	蒸发 Evap.	-5°C	12.9/5.8	15.6/6.7	18.7/8.2	23.6/10.3	27.0/11.4
		-10°C	10.8/5.3	12.9/6.2	15.6/7.4	19.6/9.2	22.3/10.2
		-15°C	9.0/4.7	10.7/5.6	12.9/6.7	16.1/8.1	18.2/9.0
吸气接口 Suction Line (mm)		φ 28	φ 28	φ 28	φ 35	φ 35	
供液接口 Liquid Line (mm)		φ 16	φ 16	φ 16	φ 16	φ 16	
尺寸 Size	A (mm)	1435	1435	1435	1435	1435	
	B (mm)	850	1000	1000	1000	1000	
	C (mm)	830	1430	1430	1430	1430	
安装尺寸 Install a×b (mm)		750×810	900×950	900×950	900×950	900×950	
外形示意图 Dimension Drawing		B	C	C	C	C	

备注:参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.



机组型号 Model		HCU20MYB	HCU25MYB	HCU30MYB	HCU35MYB	HCU40MYB	
电源 Power Supply		3P/380V/50HZ					
适用温度 Apply Temp.		-5°C~5°C					
压缩机 Comp.	型号 Model	4NES-20Y	4HE-25Y	4GE-30Y	4FE-35Y	6GE-40Y	
	最大电流 Max.I (A)	33.2	44.0	51.2	62.1	33.2	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ					
	电流 Current (A)	4.4	4.4	4.4	7.0	7.0	
	功率 Power (W)	548×4	548×4	548×4	937×4	937×4	
	转速 Rev. (r/min)	1380	1380	1380	1378	1378	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-5°C	32.2/13.8	43.2/18.6	49.9/22.2	58.9/26.2	73.6/33.0
		-10°C	26.7/12.4	36.2/16.7	42.0/19.9	49.7/23.7	62.2/29.8
		-15°C	21.9/11.0	30.1/15.0	35.0/17.8	41.5/21.2	52.0/26.7
吸气接口 Suction Line (mm)		φ 35	φ 42	φ 54	φ 54	φ 54	
供液接口 Liquid Line (mm)		φ 16	φ 22	φ 22	φ 22	φ 22	
尺寸 Size	A (mm)	1550	1550	1550	1800	1800	
	B (mm)	1150	1150	1150	1300	1350	
	C (mm)	1630	1630	1630	1880	1880	
安装尺寸 Install a×b (mm)		900×1100	900×1100	900×1100	920×1250	920×1300	
外形图 Dimension Drawing		C	C	C	C	C	

备注:参数标定为环境温度32°C。  
Remark: Calibration of parameters at ambient temperature 32°C.

机组型号 Model		HCU-							
		14LYB	18LYB	23LYB	28LYB	28LYB	34LYB	44LYB	
电源 Power Supply		3P/380V/50HZ							
适用温度 Apply Temp.		-15°C~-30°C							
压缩机 Comp.	型号 Model	4NES-14Y	4HE-18Y	4GE-23Y	4FE-28Y	6HE-28Y	6GE-34Y	6FE-44Y	
	最大电流 Max.I (A)	26.6	36.7	43.9	52.8	53.2	65.5	83.2	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ							
	电流 Current (A)	2.1	2.1	2.1	4.4	4.4	4.4	4.4	
	功率 Power (W)	240×4	240×4	240×4	548×4	548×4	548×4	548×4	
	转速 Rev. (r/min)	1330	1330	1330	1380	1380	1380	1380	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-20°C	14.7/10.0	20.7/13.8	24.2/16.4	29.0/19.7	30.5/20.4	36.4/25.0	43.4/30.0
		-25°C	11.7/8.6	16.7/12.0	19.7/14.3	23.5/17.1	24.6/17.7	29.7/21.8	35.3/26.2
		-30°C	9.1/7.2	13.2/10.3	15.7/12.2	18.8/14.7	19.5/15.1	23.8/18.8	28.2/22.6
		-35°C	7.0/6.0	10.2/8.7	12.3/10.4	14.7/12.4	15.1/12.7	18.8/16.0	22.0/19.3
		-40°C	5.2/4.9	7.7/7.3	9.3/8.7	11.2/10.3	11.4/10.5	14.4/13.4	16.7/16.2
吸气接口 Suction Line (mm)		φ 35	φ 42	φ 54	φ 54	φ 54	φ 54	φ 54	
供液接口 Liquid Line (mm)		φ 16	φ 22	φ 22	φ 22	φ 22	φ 22	φ 28	
尺寸 Size	A (mm)	1435	1435	1435	1550	1550	1550	1550	
	B (mm)	1000	1150	1150	1250	1250	1250	1250	
	C (mm)	1430	1430	1430	1630	1630	1630	1630	
安装尺寸 Install a×b (mm)		900×950	900×1100	900×1100	900×1200	900×1200	900×1200	900×1200	
外形示意图 Dimension Drawing		C	C	C	C	C	C	C	

备注:参数标定为环境温度32°C。  
Remark: Calibration of parameters at ambient temperature 32°C.

### 3.1.3 低温型机组

Low temp. unit

#### 1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		HCU-							
		02LYB	03LYB	04LYB	05LYB	06LYB	09LYB	12LYB	
电源 Power Supply		3P/380V/50HZ							
适用温度 Apply Temp.		-15°C~-30°C							
压缩机 Comp.	型号 Model	2DES-2Y	2CES-3Y	4EES-4Y	4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y	
	最大电流 Max.I (A)	7.5	9.1	12.2	14.5	17.7	19.9	22.7	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ							
	电流 Current (A)	0.52	0.52	1.04	1.04	1.04	2.1	2.1	
	功率 Power (W)	240	240	240×2	240×2	240×2	240×4	240×4	
	转速 Rev. (r/min)	1330	1330	1330	1330	1330	1330	1330	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-20°C	3.6/2.6	4.5/3.2	6.1/4.4	7.3/5.2	8.8/6.2	10.8/7.4	12.0/8.1
		-25°C	2.9/2.2	3.6/2.8	4.9/3.8	5.9/4.6	7.0/5.4	8.6/6.4	9.5/6.9
		-30°C	2.3/1.9	2.9/2.4	3.9/3.3	4.7/3.9	5.6/4.6	6.7/5.4	7.3/5.8
		-35°C	1.7/1.6	2.2/2.0	3.1/2.8	3.6/3.3	4.3/3.9	5.1/4.4	5.5/4.7
		-40°C	1.3/1.3	1.6/1.7	2.3/2.3	2.8/2.8	3.2/3.2	3.8/3.6	4.0/3.8
吸气接口 Suction Line (mm)		φ 22	φ 22	φ 28	φ 28	φ 28	φ 35	φ 35	
供液接口 Liquid Line (mm)		φ 12	φ 12	φ 12	φ 12	φ 12	φ 16	φ 16	
尺寸 Size	A (mm)	850	850	1435	1435	1435	1435	1435	
	B (mm)	800	800	850	850	850	1000	1000	
	C (mm)	830	830	830	830	830	1430	1430	
安装尺寸 Install a×b (mm)		456×760	456×760	750×810	750×810	750×810	900×950	900×950	
外形示意图 Dimension Drawing		A	A	B	B	B	C	C	

备注:参数标定为环境温度32°C。  
Remark: Calibration of parameters at ambient temperature 32°C.

### 3.1.4 双级速冻机组

Freezing unit with two stage compressor

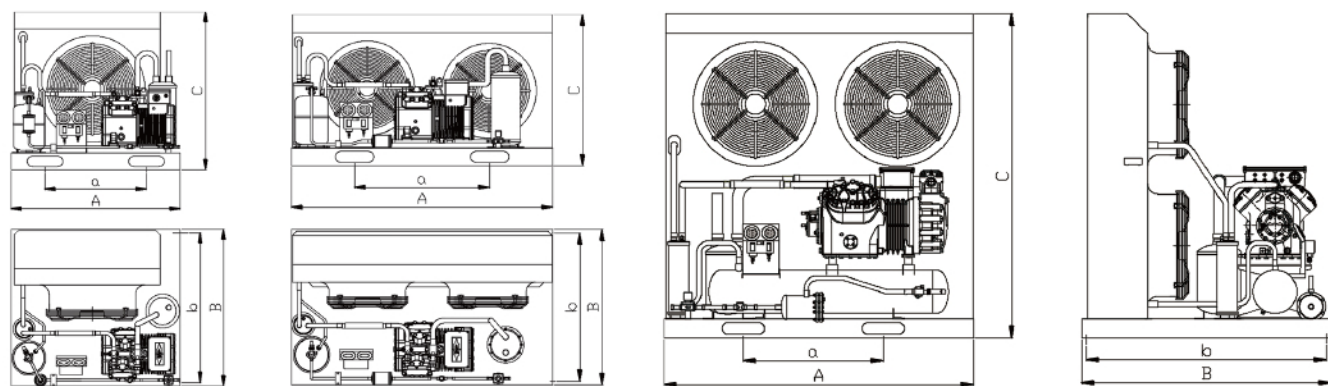
#### 1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		HCU-							
		05JYB	08JYB	12JYB	16JYB	20JYB	25JYB	30JYB	
电源 Power Supply		3P/380V/50HZ							
适用温度 Apply Temp.		-25°C~-55°C							
压缩机 Comp.	型号 Model	S4T5.2Y	S4N8.2Y	S4G12.2Y	S6J16.2Y	S6H20.2Y	S6G25.2Y	S6F30.2Y	
	最大电流 Max.I (A)	14.0	17.0	24.0	31.0	37.0	43.0	51.0	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ							
	电流 Current (A)	1.04	1.04	2.2	2.2	4.4	4.4	4.4	
	功率 Power (W)	240×2	240×2	548×2	548×2	548×4	548×4	548×4	
	转速 Rev. (r/min)	1330	1330	1380	1380	1380	1380	1380	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-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	6.5/5.8	10.4/8.8	14.6/12.3	16.8/14.3	19.2/16.4	22.7/19.6
		-45°C	3.7/3.6	5.2/5.2	8.4/7.8	11.9/10.9	13.7/12.6	15.6/14.5	18.6/17.3
		-50°C	2.9/3.2	4.1/4.5	6.7/6.8	9.5/9.5	11.0/11.0	12.5/12.7	14.9/15.2
		-55°C	2.2/2.7	3.1/3.9	5.2/5.9	7.4/8.3	8.6/9.6	9.8/11.0	11.7/13.1
吸气接口 Suction Line (mm)		φ 28	φ 28	φ 35	φ 42	φ 42	φ 42	φ 42	
供液接口 Liquid Line (mm)		φ 12	φ 12	φ 16	φ 22	φ 22	φ 22	φ 22	
尺寸 Size	A (mm)	1435	1435	1550	1550	1550	1550	1550	
	B (mm)	1050	1050	1150	1250	1250	1250	1250	
	C (mm)	830	830	930	930	1630	1630	1630	
安装尺寸 Install a×b (mm)		900×1000	900×1000	900×1100	900×1200	934×1200	934×1200	934×1200	
外形图 Dimension Drawing		B	B	B	B	C	C	C	

备注:参数标定为环境温度32°C,带经济器运行。选择膨胀阀时应考虑40K左右的过冷度。  
Remark: Calibration of parameters at ambient temperature 32°C with ECO operation.



### 3.2 外形尺寸图 Dimension Drawing



图Drawing A

图Drawing B

图Drawing C

机组配件 Parts	HCU-B 机组型号 Model of Unit												
	02L	03L	04L	05L	06L	09L	12L	14L	18L	23L	28L	34L	44L
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	●
冷凝器 Air Condensor	●	●	●	●	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●	●	●	●	●	●
油保护 Oil Protective Switch	/	▲	▲	▲	▲	▲	▲	▲	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明: ●出厂标配;▲选配件,需额外付费;  
Explain: ● Standard Configuration;▲ Optional,need extra costs;

### 3.3 机组配置 Configuration Table of Units

机组配件 Parts	HCU-B 机组型号 Model of Unit													
	02H 02M	03H 03M	04H 04M	05H 05M	06H 06M	07H 07M	09H 09M	12H 12M	15H 15M	20H 20M	25H 25M	30H 30M	35H 35M	40M
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	▲	▲	●	●	●	●	●	●	●	●
冷凝器 Air Condensor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●	●	●	●	●	●	●
油保护 Oil Protective Switch	/	/	▲	▲	▲	▲	▲	▲	▲	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明: ●出厂标配;▲选配件,需额外付费;  
Explain: ● Standard Configuration;▲ Optional,need extra costs;

机组配件 Parts	HCU-B 机组型号 Model of Unit						
	05J	08J	12J	16J	20J	25J	30J
双级压缩机 Two stage compressor	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●
冷凝器 Air Condensor	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●
经济器组件 Economizer assembly	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●	●
高低压保护 HP/LP Switch	●	●	●	●	●	●	●
油保护 Oil Protective Switch	●	●	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●
气液分离器 Accumulator	●	●	●	●	●	●	●
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲

说明: ●出厂标配;▲选配件,需额外付费;  
Explain: ● Standard Configuration;▲ Optional,need extra costs;



4. 主要技术参数 / Technical data:

4.1 富士豪半封闭压缩机系列机组

Series Units With Frascold Semi-hermetic Compressor

4.1.1 高温机组

High Temp. Unit

1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		HCU02HYF	HCU03HYF	HCU04HYF	HCU05HYF	HCU07HYF	HCU07HYF	
电源 Power Supply		3P/380V/50HZ						
适用温度 Apply temp.		5°C~15°C						
压缩机 Comp.	型号 Model	D2-11.1Y	D3-13.1Y	D4-16.1Y	Q5-24.1Y	Q7-28.1Y	Q7-33.1Y	
	最大电流 Max.I (A)	7.1	8.8	11.6	13.8	17.6	20.0	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ						
	电流 Current (A)	1.04	1.04	1.04	2.1	2.1	2.1	
	功率 Power (W)	240×2	240×2	240×2	240×4	240×4	240×4	
	转速 Rev. (r/min)	1330	1330	1330	1330	1330	1330	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	5°C	9.3/3.3	10.9/3.9	14.0/5.2	19.5/6.8	23.3/8.3	26.9/9.7
		0°C	7.9/3.1	9.3/3.6	11.9/4.8	16.7/6.3	20.0/7.6	23.1/8.9
		-5°C	6.7/2.9	7.9/3.3	10.1/4.4	14.1/5.7	17.0/7.0	19.6/8.2
吸气接口 Suction Line (mm)		φ 22	φ 28	φ 28	φ 28	φ 35	φ 35	
供液接口 Liquid Line (mm)		φ 12	φ 12	φ 12	φ 12	φ 16	φ 16	
尺寸 Size	A (mm)	1435	1435	1435	1435	1435	1435	
	B (mm)	850	850	850	1000	1000	1000	
	C (mm)	830	830	830	1430	1430	1430	
安装尺寸 Install a×b (mm)	750×810	750×810	750×810	900×950	900×950	900×950	900×950	
外形图 Dimension Drawing		B	B	B	C	C	C	

备注: 参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

机组型号 Model		HCU12HYF	HCU15HYF	HCU20HYF	HCU25HYF	HCU30HYF	HCU35HYF	
电源 Power Supply		3P/380V/50HZ						
适用温度 Apply Temp.		5°C~15°C						
压缩机 Comp.	型号 Model	S12-42Y	S15-52Y	S20-56Y	V25-71Y	V30-84Y	V35-103Y	
	最大电流 Max.I (A)	22.4	32.4	38.4	43.5	49.2	61.0	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ						
	电流 Currnt (A)	2.1	4.4	4.4	4.4	7.0	7.0	
	功率 Power (W)	240×4	548×4	548×4	548×4	937×4	937×4	
	转速 Rev. (r/min)	1330	1380	1380	1380	1378	1378	
冷量/功率 apacity/Power (kW)	蒸发 Evap.	5°C	33.7/11.4	43.6/14.8	47.9/16.5	59.3/20.2	71.1/23.8	82.7/32.9
		0°C	28.7/10.4	37.4/13.6	41.1/15.1	50.5/18.6	60.7/22.1	71.0/29.9
		-5°C	24.2/9.4	31.8/12.4	35.0/13.7	42.6/17.1	51.3/20.2	60.6/26.9
吸气接口 Suction Line (mm)		φ 35	φ 42	φ 42	φ 54	φ 54	φ 54	
供液接口 Liquid Line (mm)		φ 16	φ 22	φ 22	φ 22	φ 22	φ 22	
尺寸 Size	A (mm)	1435	1550	1550	1550	1800	1800	
	B (mm)	1000	1150	1150	1250	1300	1300	
	C (mm)	1430	1630	1630	1630	1880	1880	
安装尺寸 Install a×b (mm)	900×950	900×1100	900×1100	900×1200	920×1250	920×1250	920×1250	
外形图 Dimension Drawing		C	C	C	C	C	C	

备注: 参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

4.1.2 中温型机组

Medium temp. unit

1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		HCU-							
		02MYF	03MYF	04MYF	05MYF	07MYF	07MYF	12MYF	
电源 Power Supply		3P/380V/50HZ							
适用温度 Apply Temp.		-5°C~5°C							
压缩机 Comp.	型号 Model	D2-11.1Y	D3-13.1Y	D4-16.1Y	Q5-24.1Y	Q7-28.1Y	Q7-33.1Y	S12-42Y	
	最大电流 Max.I (A)	7.1	8.8	11.6	13.8	17.6	20.0	22.4	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ							
	电流 Current (A)	0.52	1.04	1.04	1.04	2.1	2.1	2.1	
	功率 Power (W)	240	240×2	240×2	240×2	240×4	240×4	240×4	
	转速 Rev. (r/min)	1330	1330	1330	1330	1330	1330	1330	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-5°C	6.3/2.9	7.4/3.4	9.5/4.6	13.2/5.9	15.9/7.2	18.4/8.4	22.6/9.7
		-10°C	5.3/2.7	6.2/3.1	8.0/4.2	11.0/5.4	13.4/6.5	15.5/7.6	18.9/8.6
		-15°C	4.0/2.4	5.1/2.8	6.6/3.7	9.1/4.8	11.2/6.0	12.9/6.8	15.6/7.7
吸气接口 Suction Line (mm)		φ 22	φ 28	φ 28	φ 28	φ 35	φ 35	φ 35	
供液接口 Liquid Line (mm)		φ 12	φ 12	φ 12	φ 12	φ 16	φ 16	φ 16	
尺寸 Size	A (mm)	850	1435	1435	1435	1435	1435	1435	
	B (mm)	800	850	850	850	1000	1000	1000	
	C (mm)	830	830	830	830	1430	1430	1430	
安装尺寸 Install a×b (mm)	456×760	750×810	750×810	750×810	750×810	900×950	900×950	900×950	
外形图 Dimension Drawing		A	B	B	B	C	C	C	

备注: 参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

机组型号 Model		HCU15MYF	HCU20MYF	HCU25MYF	HCU30MYF	HCU35MYF	HCU40MYF	
电源 Power Supply		3P/380V/50HZ						
适用温度 Apply Temp.		-5°C~5°C						
压缩机 Comp.	型号 Model	S15-52Y	S20-56Y	V25-71Y	V30-84Y	V35-103Y	Z40-126Y	
	最大电流 Max.I (A)	32.4	38.4	43.5	49.2	61.0	71.9	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ						
	电流 Current (A)	2.1	4.4	4.4	4.4	7.0	7.0	
	功率 Power (W)	240×4	548×4	548×4	548×4	937×4	937×4	
	转速 Rev. (r/min)	1330	1380	1380	1380	1378	1378	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-5°C	29.9/12.3	32.8/14.4	42.1/14.5	44/17.5	60.1/21.1	71.0/29.8
		-10°C	25.3/11.6	27.6/13.0	35.6/13.2	41.7/15.9	51.4/19.4	59.4/26.9
		-15°C	21.2/10.4	23.0/11.6	29.8/11.9	35.1/14.4	43.9/17.6	49.1/24.1
吸气接口 Suction Line (mm)		φ 42	φ 42	φ 54	φ 54	φ 54	φ 54	
供液接口 Liquid Line (mm)		φ 22	φ 22	φ 22	φ 22	φ 22	φ 22	
尺寸 Size	A (mm)	1435	1550	1550	1550	1800	1800	
	B (mm)	1000	1150	1250	1250	1300	1350	
	C (mm)	1430	1630	1630	1630	1880	1880	
安装尺寸 Install a×b (mm)	900×950	900×1100	900×1200	900×1200	920×1250	920×1250	920×1300	
外形图 Dimension Drawing		C	C	C	C	C	C	

备注: 参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.



4.1.3 低温型机组

Low temp. unit

1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		HCU02LYF	HCU03LYF	HCU04LYF	HCU05LYF	HCU08LYF	HCU10LYF	
电源 Power Supply		3P/380V/50HZ						
适用温度 Apply Temp.		-15°C~-30°C						
压缩机 Comp.	型号 Model	D2-13.1Y	D3-16.1Y	Q4-24.1Y	Q5-33.1Y	S8-42Y	S10-52Y	
	最大电流 Max.I (A)	7.1	9.9	11.7	14.4	20.3	24.5	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ						
	电流 Current (A)	0.52	0.52	1.04	1.04	2.1	2.1	
	功率 Power (W)	240	240	240×2	240×2	240×4	240×4	
	转速 Rev. (r/min)	1330	1330	1330	1330	1330	1330	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-20°C	3.6/2.8	4.4/3.5	6.1/4.4	9.0/6.6	11.7/7.8	14.7/10.1
		-25°C	2.9/2.4	3.6/3.0	4.9/3.8	7.4/5.7	9.5/6.8	12.1/8.7
		-30°C	2.3/2.1	2.8/2.6	3.9/3.3	5.9/4.8	7.5/5.8	9.8/7.4
		-35°C	1.8/1.8	2.1/2.1	2.9/2.8	4.6/4.1	5.8/4.8	7.7/6.3
		-40°C	1.4/1.5	1.5/1.7	2.1/2.3	3.5/3.4	4.2/3.9	5.8/5.2
吸气接口 Suction Line (mm)	φ 22	φ 28	φ 28	φ 35	φ 35	φ 35	φ 35	
供液接口 Liquid Line (mm)	φ 12	φ 12	φ 12	φ 16	φ 16	φ 16	φ 16	
尺寸 Size	A (mm)	850	850	1435	850	1435	1435	
	B (mm)	800	800	850	850	1000	1000	
	C (mm)	830	830	830	830	1430	1430	
安装尺寸 Install a×b (mm)	456×760	456×760	750×810	750×810	900×950	900×950	900×950	
外形图 Dimension Drawing		A	A	B	B	C	C	

备注:参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

4.1.4 双级速冻机组

Freezing unit with two-stage compressor

1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		HCU07JYF	HCU10JYF	HCU15JYF	HCU20JYF	HCU25JYF	HCU30JYF	
电源 Power Supply		3P/380V/50HZ						
适用温度 Apply Temp.		-25°C~-55°C						
压缩机 Comp.	型号 Model	S7-27.19Y	2V10-42.29Y	2Z15-60.30Y	2Z20-72.36Y	2Z25-84.42Y	2Z30-102.51Y	
	最大电流 Max.I (A)	18.0	23.0	31.0	37.0	45.0	53.0	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ						
	电流 Current (A)	1.04	2.2	2.2	4.4	4.4	4.4	
	功率 Power (W)	240×2	548×2	548×2	548×4	548×4	548×4	
	转速 Rev. (r/min)	1330	1380	1380	1380	1380	1380	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-30°C	9.5/7.5	13.8/11.4	18.9/15.2	23.1/18.1	27.3/21.3	34.1/27.0
		-35°C	8.0/6.7	11.6/10.1	16.0/13.5	19.5/16.2	23.0/19.0	28.6/23.8
		-40°C	6.6/5.9	9.7/9.0	13.3/12.0	16.2/14.4	19.1/16.7	23.7/20.9
		-45°C	5.4/5.2	8.0/7.8	11.0/10.5	13.3/12.7	15.8/14.7	19.4/18.2
		-50°C	4.3/4.5	6.5/6.8	8.9/9.1	10.8/11.2	12.8/12.8	15.6/15.7
		-55°C	3.4/3.9	5.2/6.0	7.1/7.9	8.6/9.7	10.2/11.1	12.5/13.5
		-60°C	2.7/3.3	4.1/5.0	5.6/6.7	6.8/8.3	8.0/9.4	9.8/11.4
吸气接口 Suction Line (mm)	φ 35	φ 35	φ 42	φ 42	φ 42	φ 54		
供液接口 Liquid Line (mm)	φ 16	φ 16	φ 22	φ 22	φ 22	φ 22		
尺寸 Size	A (mm)	1435	1550	1550	1550	1550	1550	
	B (mm)	1050	1150	1250	1250	1250	1250	
	C (mm)	830	930	930	1630	1630	1630	
安装尺寸 Install a×b (mm)	900×1000	900×1100	900×1200	934×1200	934×1200	934×1200	934×1200	
外形图 Dimension Drawing		B	B	B	C	C	C	

备注:参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

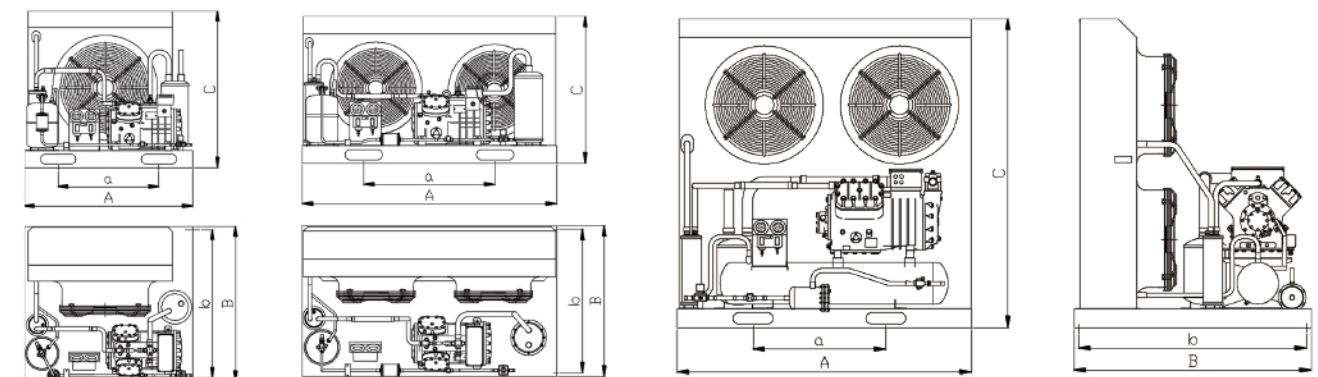
机组型号 Model		HCU15LYF	HCU15LYF	HCU20LYF	HCU25LYF	HCU30LYF	HCU40LYF	
电源 Power Supply		3P/380V/50HZ						
适用温度 Apply Temp.		-15°C~-30°C						
压缩机 Comp.	型号 Model	S15-56Y	V15-71Y	V20-84Y	V25-103Y	Z30-126Y	Z40-154Y	
	最大电流 Max.I (A)	30.7	32.2	46.2	52.3	55.7	77.9	
风机 Fan	电压 Voltage (V)	3P/380V/50HZ						
	电流 Current (A)	2.1	2.1	2.1	4.4	4.4	4.4	
	功率 Power (W)	240×4	240×4	240×4	548×4	548×4	548×4	
	转速 Rev. (r/min)	1330	1330	1330	1380	1380	1380	
冷量/功率 Capacity/Power (kW)	蒸发 Evap.	-20°C	16.2/10.8	19.9/14.0	22.5/15.8	28.2/21.0	33.6/22.8	44.1/30.3
		-25°C	13.3/9.3	16.3/12.0	18.4/13.7	22.6/18.1	27.1/19.8	36.3/26.1
		-30°C	10.7/8.0	13.2/10.2	14.7/11.7	17.7/15.4	21.4/16.9	29.4/22.2
		-35°C	8.3/6.7	10.3/8.5	11.4/9.9	13.5/12.9	16.4/14.2	23.1/18.6
		-40°C	6.2/5.6	7.7/7.0	8.5/8.2	9.8/10.8	12.1/11.7	17.2/15.4
吸气接口 Suction Line (mm)	φ 42	φ 42	φ 54	φ 54	φ 54	φ 54		
供液接口 Liquid Line (mm)	φ 22	φ 22	φ 22	φ 22	φ 22	φ 28		
尺寸 Size	A (mm)	1435	1435	1435	1550	1550	1550	
	B (mm)	1000	1150	1150	1250	1250	1250	
	C (mm)	1430	1430	1430	1630	1630	1630	
安装尺寸 Install a×b (mm)	900×950	900×1100	900×1100	900×1200	900×1200	900×1200	900×1200	
外形图 Dimension Drawing		C	C	C	C	C	C	

备注:参数标定为环境温度32°C。

Remark: Calibration of parameters at ambient temperature 32°C.

4.2 外形尺寸图

Dimension Drawing



图Drawing A

图Drawing B

图Drawing C



4.3 机组配置表  
Configuration Table of Units

机组配件 Parts	HCU-F 机组型号 Model of unit											
	02H 02M	03H 03M	04H 04M	05H 05M	07H 07M	12H 12M	15H 15M	20H 20M	25H 25M	30H 30M	35H 35M	40M
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	▲	●	●	●	●	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	▲	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●
视镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP /LP Switch	●	●	●	●	●	●	●	●	●	●	●	●
油保护 Oil Pressure Switch	▲	▲	▲	▲	▲	▲	▲	▲	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain:● Standard Configuration;▲ Optional,need extra costs;

机组配件 Parts	HCU07JYF	HCU10JYF	HCU15JYF	HCU20JYF	HCU25JYF	HCU30JYF
双级压缩机 Two-stage Compressor.	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●
视镜 Sight Glass	●	●	●	●	●	●
经济器组件 ECO Assembly	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●
高低压保护 HP /LP Switch	●	●	●	●	●	●
油保护 Oil Pressure Switch	●	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●
气液分离器 Accumulator	●	●	●	●	●	●
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain:● Standard Configuration;▲ Optional,need extra costs;

机组配件 Parts	HCU-F 机组型号 Model of unit											
	02L	03L	04L	05L	08L	10L	15L/ S15	15L/ V15	20L	25L	30L	40L
压缩机 Compressor	●	●	●	●	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	▲	▲	▲	▲	●	●	●	●	●	●	●	●
油分离器 Oil Separator	▲	▲	▲	▲	●	●	●	●	●	●	●	●
冷凝器 Condenser	●	●	●	●	●	●	●	●	●	●	●	●
AC 电机 AC Motor	●	●	●	●	●	●	●	●	●	●	●	●
储液器 Receiver	●	●	●	●	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●	●	●	●	●
视镜 Sight Glass	●	●	●	●	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
高低压保护 HP /LP Switch	●	●	●	●	●	●	●	●	●	●	●	●
油保护 Oil Pressure Switch	/	▲	▲	▲	▲	▲	▲	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain:● Standard Configuration;▲ Optional,need extra costs;





## OUBS 系列半封闭压缩机水冷冷凝机组

OUBS series Water-cool Condensing unit With Semi-hermrtic Compressor

### 1、产品概述 / Product description:

OUBS 系列水冷冷凝机组具有如下特点:

OUBS series water-cool condensing units have the following characteristics

- 1 主机采用比泽尔或富士豪半封闭活塞式制冷压缩机,质量好、可靠性高;  
Adopted semi-hermetic piston compressors with BITZER or FRASCOLD ,It has good quality and high reliability.
- 2 采用高效壳管式水冷冷凝器,冷却效果好、冷凝温度低;  
Adopted high efficiency shell-tube type water condenser with good cooling effect and low condensation temperature;
- 3 水冷冷凝器与压缩机及各种配件安装在一个整体的机架上,结构紧凑、操作检修方便;  
The condenser, compressor and various accessories are installed on an integral frame, which is compact in structure and convenient in operation and maintenance;
- 4 产品系列全,适用温度范围广,具有中温、低温及双级速冻等应用设计,可满足各种温度应用的制冷设备使用;  
The product series is complete, suitable for a wide range of temperatures. It has medium , low temperature and quick frozen working conditions design. It can meet the needs of refrigeration equipment at various temperatures;temperatures;
- 5 可满足R22、R404A、R507A、R448A、R449A等制冷剂使用;  
It can meet the requirements of R22, R404A, R507A, R448A, R449A and other refrigerants.

### 2、产品型号说明 / Model Explanation:

**OUBS 20 M B Y**



**OUBS**

## 系列半封闭压缩机水冷冷凝机组

series Water-cool Condensing unit With Semi-hermrtic Compressor





### 3、主要技术参数 / Technical data:

#### 3.1 比泽尔半封闭压缩机系列机组

Series Units With BITZER Semi-hermetic Compressor

##### 3.1.1 中温机组

Medium Temp. Unit

##### 1) 制冷剂 Refrigerant R22

机组型号 Model		OUBS12MB	OUBS15MB	OUBS20MB	OUBS25MB	
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-5~5°C				
压缩机	型号 Model	4TES-12	4PES-15	4NES-20	4HE-25	
	最大电流 Max.I (A)	25.2/19.9	28.2	33.2/26.6	44.0/36.7	
制冷量/功率 Capacity/Power(KW)	蒸发 Evap.	-5°C	26.9/8.5	30.9/9.5	36.4/11.4	47.7/14.9
		-10°C	22.0/7.8	25.1/8.7	29.7/10.5	39.1/13.7
		-15°C	17.7/7.0	20.2/7.9	23.9/9.4	31.6/12.4
额定水流量 Water Flow (m3/h)		7.5	8.5	10	13	
吸气接口 Suction Line (mm)		φ 35	φ 35	φ 35	φ 42	
供液接口 Liquid Line (mm)		φ 22	φ 22	φ 22	φ 22	
冷却水接口 Water Connect (inch)		Rc2	Rc2	Rc2	Rc2-1/2	
尺寸 Size	A (mm)	1397	1397	1397	1647	
	B (mm)	556	590	590	590	
	C (mm)	819	819	819	878	
安装尺寸 Install a×b (mm)		900×330	900×330	900×330	1000×330	

备注:参数标定为冷却水进水温度30°C,冷凝温度40°C。

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C,and condensation temperature is 40°C

机组型号 Model		OUBS30MB	OUBS35MB	OUBS40MB	OUBS50MB	
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-5°C~5°C				
压缩机	型号 Model	4GE-30	4FE-35	6GE-40	6FE-50	
	最大电流 Max.I (A)	51.2/43.9	62.1/52.8	73.9/65.5	96.2/83.2	
制冷量/功率 Capacity/Power(KW)	蒸发 Evap.	-5°C	56.1/17.7	67.0/20.7	83.5/26.4	100.5/31.4
		-10°C	46.1/16.3	55.1/19.2	68.5/24.2	82.6/29.1
		-15°C	37.5/14.9	44.8/17.5	55.6/22.0	67.1/26.5
额定水流量 Water Flow (m3/h)		15	18	22.5	27	
吸气接口 Suction Line (mm)		φ 54	φ 54	φ 54	φ 54	
供液接口 Liquid Line (mm)		φ 22	φ 22	φ 28	φ 28	
冷却水接口 Water Connect (inch)		Rc2-1/2	Rc2-1/2	Rc2-1/2	Rc2-1/2	
尺寸 Size	A (mm)	1647	1647	1647	1907	
	B (mm)	590	590	660	660	
	C (mm)	878	878	872	872	
安装尺寸 Install a×b (mm)		1000×330	1000×330	1000×330	1200×330	

备注:参数标定为冷却水进水温度30°C,冷凝温度40°C。

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C,and condensation temperature is 40°C

#### 2) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		OUBS12MBY	OUBS15MBY	OUBS20MBY	OUBS25MBY	
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-5°C~5°C				
压缩机	型号 Model	4TES-12Y	4PES-15Y	4NES-20Y	4HE-25Y	
	最大电流 Max.I (A)	25.2	28.2	33.2	44.0	
制冷量/功率 Capacity/Power(KW)	蒸发 Evap.	-5°C	26.9/9.6	30.9/10.7	36.7/12.9	48.9/17.4
		-10°C	21.9/8.7	25.1/9.8	29.9/11.8	40.3/15.9
		-15°C	17.7/7.9	20.1/8.8	24.0/10.7	32.8/14.4
额定水流量 Water Flow (m3/h)		7.5	8.5	10	13	
吸气接口 Suction Line (mm)		φ 35	φ 35	φ 35	φ 42	
供液接口 Liquid Line (mm)		φ 22	φ 22	φ 22	φ 22	
冷却水接口 Water Connect (inch)		Rc2	Rc2	Rc2	Rc2-1/2	
尺寸 Size	A (mm)	1397	1397	1397	1647	
	B (mm)	556	590	590	590	
	C (mm)	819	819	819	878	
安装尺寸 Install a×b (mm)		900×330	900×330	900×330	1000×330	

备注:参数标定为冷却水进水温度30°C,冷凝温度40°C。

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C,and condensation temperature is 40°C

机组型号 Model		OUBS30MBY	OUBS35MBY	OUBS40MBY	OUBS50MBY	
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-5°C~5°C				
压缩机	型号 Model	4GE-30Y	4FE-35Y	6GE-40Y	6FE-50Y	
	最大电流 Max.I (A)	51.2	62.1	73.9	96.2	
制冷量/功率 Capacity/Power(KW)	蒸发 Evap.	-5°C	56.5/20.7	66.7/24.5	83.2/30.7	100.0/36.8
		-10°C	46.6/18.9	55.1/22.5	68.8/28.2	82.7/34.0
		-15°C	38.1/17.1	45.2/20.5	56.4/25.6	67.7/31.0
额定水流量 Water Flow (m3/h)		15	18	22.5	27	
吸气接口 Suction Line (mm)		φ 54	φ 54	φ 54	φ 54	
供液接口 Liquid Line (mm)		φ 22	φ 22	φ 28	φ 28	
冷却水接口 Water Connect (inch)		Rc2-1/2	Rc2-1/2	Rc2-1/2	Rc2-1/2	
尺寸 Size	A (mm)	1647	1647	1647	1907	
	B (mm)	590	590	660	660	
	C (mm)	878	878	872	872	
安装尺寸 Install a×b (mm)		1000×330	1000×330	1000×330	1200×330	

备注:参数标定为冷却水进水温度30°C,冷凝温度40°C。

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C,and condensation temperature is 40°C



3.1.2 低温机组

Low temp. unit

1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		OUBS09LBY	OUBS12LBY	OUBS14LBY	OUBS18LBY	
电源 Power Supply		3P/380V/50HZ				
适用温度 Apply Temp.		-15°C~-30°C				
压缩机	型号 Model	4TES-9Y	4PES-12Y	4NES-14Y	4HE-18Y	
	最大电流 Max.I (A)	19.9	22.7	26.6	36.7	
制冷量/功率 Capacity/Power(KW)	蒸发 Evap.	-20°C	13.1/7.1	14.7/7.9	17.8/9.7	24.7/12.3
		-25°C	9.9/6.2	11.1/6.8	13.5/8.5	19.1/11.7
		-30°C	7.8/5.3	8.6/5.8	10.6/7.2	15.2/10.1
		-35°C	5.8/4.4	6.3/4.8	7.9/6.0	11.5/8.7
		-40°C	4.2/3.6	4.5/3.9	5.8/5.0	8.5/7.3
额定水流量 Water Flow (m3/h)		3.5	4.0	5.0	6.5	
吸气接口 Suction Line (mm)		φ 35	φ 35	φ 35	φ 42	
供液接口 Liquid Line (mm)		φ 16	φ 16	φ 16	φ 22	
冷却水接口 Water Connect (inch)		Rc1-1/4	Rc1-1/4	Rc1-1/2	Rc2	
尺寸 Size	A (mm)	1139	1139	1139	1397	
	B (mm)	460	460	460	590	
	C (mm)	755	755	755	878	
安装尺寸 Install a×b (mm)		700×300	700×300	700×300	900×330	

备注:参数标定为冷却水进水温度30°C,冷凝温度40°C。

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C, and condensation temperature is 40°C.

3.1.3 双级速冻机组

Quick freezing unit with two stage compressor

1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		OUBS05JBY	OUBS08JBY	OUBS12JBY	OUBS16JBY	
电源 Power Supply		3P/380V/50HZ				
适用温度 Applicable Temp		-25°C~-60°C				
压缩机 Comp.	型号 Model	S4T-5.2Y	S4N-8.2Y	S4G-12.2Y	S6J-16.2Y	
	最大电流 Max. I (A)	14.0	17.0	24.0	31.0	
制冷量/功率 Capacity/Power (KW)	蒸发 Evap.	-30°C	7.1/4.7	10.1/6.8	15.6/10.2	21.5/14.6
		-35°C	5.8/4.4	8.2/6.2	12.9/9.4	18.0/13.2
		-40°C	4.7/4.0	6.6/5.7	10.6/8.5	14.8/11.9
		-45°C	3.7/3.6	5.3/5.1	8.5/7.6	12.0/10.6
		-50°C	2.9/3.1	4.1/4.5	6.7/6.7	9.5/9.4
		-55°C	2.2/2.7	3.2/3.9	5.2/5.9	7.4/8.3
		-60°C	1.6/2.3	2.3/3.3	3.9/5.0	5.6/7.2
		-65°C	1.1/1.9	1.6/2.8	2.8/4.2	4.0/6.1
额定水流量 Water Flow (m3/h)		2.0	3.0	4.5	6.5	
吸气接口 Suction Line (mm)		φ 28	φ 28	φ 35	φ 42	
供液接口 Liquid Line (mm)		φ 16	φ 16	φ 16	φ 22	
冷却水接口 Water Connect (inch)		Rc1-1/4	Rc1-1/4	Rc1-1/2	Rc2	
尺寸 Size	A (mm)	1000	1200	1200	1400	
	B (mm)	650	650	650	730	
	C (mm)	820	900	940	1030	
安装尺寸 Install a×b (mm)		500×605	600×605	600×605	800×675	

备注:参数标定为冷却水进水温度30°C,冷凝温度40°C。

Remark: Calibration of parameters for condensing temperature. is 40°C, with ECO.

机组型号		OUBS23LBY	OUBS28LBY	OUBS34LBY	OUBS44LBY	
电源		3P/380V/50HZ				
适用温度		-15°C~-30°C				
压缩机	型号	4GE-23Y	4FE-28Y	6GE-34Y	6FE-44Y	
	最大电流 (A)	43.9	52.8	65.5	83.2	
制冷量/功率 Capacity/Power (KW)	蒸发 Evap.	-20°C	28.8/15.7	34.3/18.8	43.0/23.6	51.5/28.6
		-25°C	22.4/13.9	26.7/16.7	33.6/21.1	40.1/25.5
		-30°C	17.9/12.0	21.4/14.4	27.0/18.2	32.1/22.2
		-35°C	13.7/10.2	16.4/12.3	20.9/15.7	24.6/19.1
		-40°C	10.2/8.6	12.2/10.3	15.7/13.3	18.3/16.2
额定水流量 Water Flow (m3/h)		8.0	9.0	11.5	14.0	
吸气接口 Suction Line (mm)		φ 54	φ 54	φ 54	φ 54	
供液接口 Liquid Line (mm)		φ 22	φ 22	φ 22	φ 22	
冷却水接口 Water Connect (inch)		Rc2	Rc2	Rc2-1/2	Rc2-1/2	
尺寸 Size	A (mm)	1397	1397	1647	1647	
	B (mm)	590	590	660	660	
	C (mm)	878	878	872	872	
安装尺寸 Install a×b (mm)		900×330	900×330	900×330	900×330	

备注:参数标定为冷却水进水温度30°C,冷凝温度40°C。

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C, and condensation temperature is 40°C.

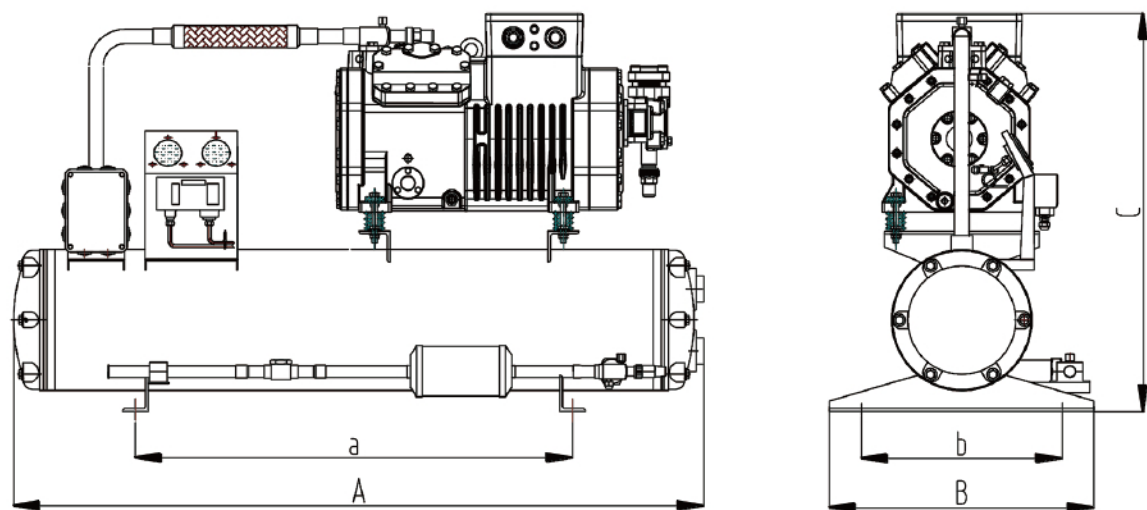
机组型号 Model		OUBS20JBY	OUBS25JBY	OUBS30JBY	
电源 Power Supply		3P/380V/50HZ			
适用温度 Applicable Temp		-25°C~-60°C			
压缩机 Comp.	型号 Model	S6H-20.2Y	S6G-25.2Y	S6F-30.2Y	
	最大电流 Max. I (A)	37.0	43.0	51.0	
制冷量/功率 Capacity/Power (KW)	蒸发 Evap.	-30°C	24.9/16.9	28.3/19.4	33.6/23.1
		-35°C	20.8/15.3	23.7/17.6	28.1/21.0
		-40°C	17.1/13.8	19.5/15.9	23.1/19.0
		-45°C	13.9/12.3	15.8/14.2	18.8/17.0
		-50°C	11.0/10.9	12.6/12.6	15.0/15.0
		-55°C	8.6/9.6	9.8/11.0	11.7/13.1
		-60°C	6.5/8.3	7.4/9.5	8.8/11.4
		-65°C	4.7/7.1	5.3/8.1	6.4/9.7
额定水流量 Water Flow (m3/h)		7.5	8.5	10.0	
吸气接口 Suction Line (mm)		φ 42	φ 42	φ 42	
供液接口 Liquid Line (mm)		φ 22	φ 22	φ 22	
冷却水接口 Water Connect (inch)		Rc2	Rc2	Rc2-1/2	
尺寸 Size	A (mm)	1400	1400	1650	
	B (mm)	730	730	730	
	C (mm)	1030	1030	1030	
安装尺寸 Install a×b (mm)		800×675	800×675	1050×675	

备注:参数标定为冷却水进水温度30°C,带经济器运行,冷凝温度40°C

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C, with ECO operation. Condensation temperature is 40°C.



### 3.2 机组外形尺寸图 Dimension Drawing



### 3.3 机组配置表 Configuration Table of Units

#### 3.3.1 中温机组 Medium Temp. Unit

机组配件 Parts	OUBS-B 机组型号 Model of Unit							
	-12M	-15M	-20M	-25M	-30M	-35M	-40M	-50M
压缩机 Compressor	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●	●
水冷凝器 Water Condensor	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●	●	●
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●
油保护 Oil Protective Switch	▲	▲	▲	▲	▲	▲	▲	▲
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain: ● Standard Configuration;▲ Optional,need extra costs;

### 3.3.2 低温机组 Low temp. units

机组配件 Parts	OUBS-B 机组型号 Model of Unit							
	-09L	-12L	-14L	-18L	-23L	-28L	-34L	44L
压缩机 Compressor	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●	●
水冷凝器 Water Condensor	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●	●	●
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●
油保护 Oil Protective Switch	▲	▲	▲	▲	▲	▲	▲	▲
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain: ● Standard Configuration;▲ Optional,need extra costs;

### 3.3.3 双级速冻机组 Quick freezing unit with two stage compressor

机组配件 Parts	OUBS-B 机组型号 Model of Unit						
	-05J	-08J	-12J	-16J	-20J	-25J	-30J
双级压缩机 Two stage compressor	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●
水冷凝器 Water Condensor	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●	●
经济器组件 Economizer assembly	●	●	●	●	●	●	●
高低压保护 HP /LP Switch	●	●	●	●	●	●	●
油保护 Oil Protective Switch	●	●	●	●	●	●	●
高/低压表 HP/LP Gauge	●	●	●	●	●	●	●
气液分离器 Accumulator	●	●	●	●	●	●	●
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲

说明:●出厂标配;▲选配件,需额外付费;  
Explain: ● Standard Configuration;▲ Optional,need extra costs;



### 4. 主要技术参数 / Technical data:

#### 4.1 富士豪半封闭压缩机系列机组

Series Units With FRASCOLD Semi-hermetic Compressor

##### 4.1.1 中温机组

Medium Temp. Unit

机组型号 Model		OUBS12MFY	OUBS15MFY	OUBS20MFY	OUBS25MFY		
电源 Power supply		3P/380V/50HZ					
适用温度 Applicable Temp.		-5°C~5°C					
压缩机 Comp.	型号 Model	S12-42Y	S15-52Y	S20-56Y	V25-71Y		
	最大电流 Max. I (A)	22.4	32.4	38.4	43.5		
制冷量/功率 Capacity/ Power (KW)	R22	蒸发 Evap.	-5°C	26.9/8.4	34.6/9.8	37.2/11.3	44.2/14.1
			-10°C	22.5/7.7	28.4/9.0	30.8/10.4	36.7/12.9
			-15°C	18.6/7.0	22.9/8.2	25.7/9.6	30.1/11.6
	R404A/R507A	蒸发 Evap.	-5°C	27.2/9.9	33.7/11.9	37.0/13.3	45.0/17.4
			-10°C	22.6/9.1	27.9/11.0	30.7/12.1	37.2/16.0
			-15°C	18.5/8.2	22.9/10.0	25.3/11.0	30.5/14.5
冷却水额定流量 Water Flow (m3/h)		7.5	9.0	10.0	12.5		
吸气接口 Suction line (mm)		φ 35	φ 42	φ 42	φ 54		
供液接口 Liquid line (mm)		φ 22	φ 22	φ 22	φ 22		
冷却水接口 Water connect (inch)		Rc2	Rc2	Rc2	Rc2-1/2		
尺寸 size	A (mm)		1397	1397	1397	1647	
	B (mm)		556	590	590	660	
	C (mm)		807	807	807	880	
安装尺寸 Install a × b (mm)		900 × 330	900 × 330	900 × 330	1000 × 330		

备注:1) 参数标定为冷却水进水温度30°C,冷凝温度40°C;

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C. Condensation temperature is 40°C.

机组型号 Model		OUBS30MFY	OUBS35MFY	OUBS40MFY	OUBS50MFY		
电源 Power Supply		3P/380V/50HZ					
适用温度 Applicable Temp		-5°C~5°C					
压缩机 Comp.	型号 Model	V30-84Y	V35-103Y	Z40-126Y	Z50-154Y		
	最大电流 Max. I (A)	49.2	61.0	71.9	90.4		
制冷量/功率 Capacity/ Power (KW)	R22	蒸发 Evap.	-5°C	52.3/16.9	62.4/20.2	77.3/25.1	97.1/29.8
			-10°C	43.3/15.2	52.2/18.5	64.4/22.8	80.2/27.6
			-15°C	35.5/13.7	43.1/16.6	53.0/20.5	65.6/25.1
	R404A/R507A	蒸发 Evap.	-5°C	52.6/20.4	65.5/26.5	80.0/28.6	98.7/35.5
			-10°C	43.7/18.5	54.3/24.2	66.0/26.3	81.0/32.4
			-15°C	35.8/16.7	44.5/21.7	53.8/23.8	65.7/29.1
冷却水额定流量 Water Flow (m3/h)		14.5	18.5	21.5	26.5		
吸气接口 Suction line (mm)		φ 54	φ 54	φ 67/φ 54	φ 67/φ 54		
供液接口 Liquid line (mm)		φ 22	φ 22	φ 28	φ 28		
冷却水接口 Water connect (inch)		Rc2-1/2	Rc2-1/2	Rc2-1/2	Rc2-1/2		
尺寸 size	A (mm)		1647	1647	1647	1907	
	B (mm)		660	660	660	660	
	C (mm)		880	880	939	939	
安装尺寸 Install a × b (mm)		1000 × 330	1000 × 330	1000 × 330	1200 × 330		

备注:1) 参数标定为冷却水进水温度30°C,冷凝温度40°C;

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C. Condensation temperature is 40°C.

#### 4.1.2 低温机组

Low temperature units

##### 1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model		OUBS08LFY	OUBS10LFY	OUBS15LFY/S15	OUBS15LFY/V15	
电源 Power Supply		3P/380V/50HZ				
适用温度 Applicable Temp		-15°C~-30°C				
压缩机 Comp.	型号 Model	S8-42Y	S10-52Y	S15-56Y	V15-71Y	
	最大电流 Max. I (A)	20.3	24.5	30.7	32.2	
制冷量/功率 Capacity/ Power (KW)	蒸发 Evap.	-20°C	14.0/7.5	17.1/9.5	19.1/10.2	23.4/13.3
		-25°C	10.8/6.6	13.5/8.4	15.0/9.0	18.4/11.7
		-30°C	8.6/5.7	11.0/7.2	12.1/7.8	14.9/10.0
		-35°C	6.4/4.8	8.5/6.1	9.3/6.6	11.5/8.4
	-40°C	4.6/4.0	6.3/5.1	6.8/5.6	8.4/7.0	
冷却水额定流量 Water Flow (m3/h)		3.7	4.5	5.0	6.5	
吸气接口 Suction line (mm)		φ 35	φ 42	φ 42	φ 42	
供液接口 Liquid line (mm)		φ 16	φ 16	φ 16	φ 22	
冷却水接口 Water connect (inch)		Rc1-1/4	Rc1-1/2	Rc1-1/2	Rc2	
尺寸 Size	A (mm)		1139	1139	1139	1397
	B (mm)		460	460	460	590
	C (mm)		742	742	742	880
安装尺寸 Install a × b (mm)		700 × 300	700 × 300	700 × 300	900 × 330	

备注:1) 参数标定为冷却水进水温度30°C,冷凝温度40°C;

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C. Condensation temperature is 40°C.

机组型号 Model		OUBS20LFY	OUBS25LFY	OUBS30LFY	OUBS40LFY	
电源 Power Supply		3P/380V/50HZ				
适用温度 Applicable Temp		-15°C~-30°C				
压缩机 Comp.	型号 Model	V20-84Y	V25-103Y	Z30-126Y	Z40-154Y	
	最大电流 Max. I (A)	46.2	52.3	55.7	77.9	
制冷量/功率 Capacity/ Power (KW)	蒸发 Evap.	-20°C	27.0/15.2	33.6/20.0	40.3/21.8	51.8/28.6
		-25°C	20.9/13.4	25.8/17.5	30.9/19.3	40.9/25.2
		-30°C	16.6/11.5	20.3/14.9	24.4/16.6	33.2/21.6
		-35°C	12.6/9.8	15.1/12.7	18.3/14.1	25.7/18.3
	-40°C	9.2/8.1	10.8/10.6	13.2/11.7	18.9/15.3	
冷却水额定流量 Water Flow (m3/h)		7.5	9.5	10.5	14.0	
吸气接口 Suction line (mm)		φ 54	φ 54	φ 54	φ 67	
供液接口 Liquid line (mm)		φ 22	φ 22	φ 22	φ 22	
冷却水接口 Water connect (inch)		Rc2	Rc2	Rc2-1/2	Rc2-1/2	
尺寸 size	A (mm)		1397	1397	1647	1647
	B (mm)		590	660	660	660
	C (mm)		880	880	939	939
安装尺寸 Install a × b (mm)		900 × 330	900 × 330	1000 × 330	1000 × 330	

备注:1) 参数标定为冷却水进水温度30°C,冷凝温度40°C;

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C. Condensation temperature is 40°C.



### 4.2.3 双级速冻机组

Quick freezing unit with two stage compressor

#### 1) 制冷剂 Refrigerant R404A/R507A

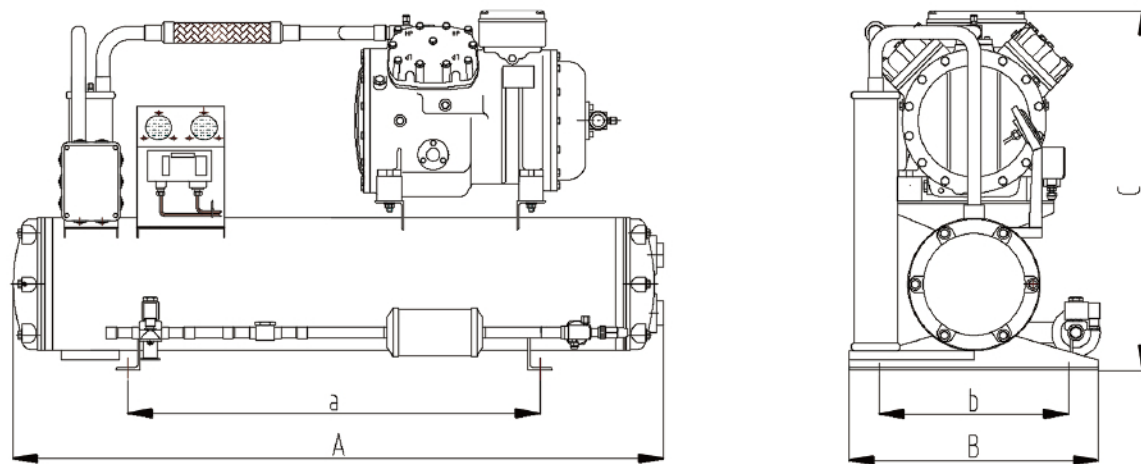
机组型号 Model		OUBS07JFY	OUBS10JFY	OUBS15JFY	OUBS20JFY	OUBS25JFY	OUBS30JFY	
电源 Power Supply		3P/380V/50HZ						
适用温度 Applicable Temp		-25°C~-60°C						
压缩机 Comp.	型号 Model	S7-27.19Y	2V10-42.29Y	2Z15-60.30Y	2Z20-72.36Y	2Z25-84.42Y	2Z30-102.51Y	
	最大电流 Max. I (A)	18.0	23.0	31.0	37.0	45.0	53.0	
制冷量/功率 Capacity/Power (KW)	蒸发 Evap.	-30°C	9.7/7.0	14.1/10.6	19.4/14.1	23.6/16.8	27.9/19.8	34.8/25.0
		-35°C	8.1/6.3	11.8/9.6	16.2/12.8	19.8/15.3	23.4/17.9	29.0/22.5
		-40°C	6.7/5.7	9.8/8.6	13.5/11.5	16.4/13.8	19.4/16.1	23.9/20.0
		-45°C	5.4/5.0	8.1/7.7	11.0/10.2	13.4/12.4	15.9/14.3	19.5/17.7
		-50°C	4.3/4.4	6.5/6.8	8.9/9.0	10.8/11.0	12.8/12.6	15.7/15.5
		-55°C	3.4/3.9	5.2/5.9	7.1/7.9	8.6/9.7	10.2/11.1	12.5/13.5
		-60°C	2.6/3.3	4.1/5.2	5.6/6.8	6.8/8.5	8.0/9.6	9.7/11.6
冷却水流量 Water Flow (m3/h)		3.0	4.5	6.0	7.0	8.5	10.5	
吸气接口 Suction line (mm)		φ 35	φ 35	φ 42	φ 42	φ 42	φ 54	
供液接口 Liquid line (mm)		φ 16	φ 16	φ 22	φ 22	φ 22	φ 22	
冷却水接口 Water connect (inch)		Rc1-1/4	Rc1-1/2	Rc2	Rc2	Rc2	Rc2-1/2	
尺寸 Size	A (mm)	1200	1200	1400	1400	1400	1650	
	B (mm)	650	650	730	730	730	730	
	C (mm)	900	940	1030	1030	1030	1030	
安装尺寸 Install a × b (mm)		600×605	600×605	600×675	600×675	600×675	1050×675	

备注: 参数标定为冷却水进水温度30°C,带经济器运行,冷凝温度40°C.

Remark: Calibration of parameters for inlet temperature of cooling water at 30°C, with ECO operation. Condensation temperature is 40°C.

### 4.2 机组外形尺寸图

Dimension Drawing



### 4.3 机组配置表

Configuration Table of Units

#### 4.3.1 中温机组

Medium Temp. Unit

机组配件 Parts	OUBS-F 机组型号 Model of Unit							
	-12M	-15M	-20M	-25M	-30M	-35M	-40M	-50M
压缩机 Compressor	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●	●
水冷凝器 Water Condenser	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●	●	●
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●
油保护 Oil Protective Switch	▲	▲	▲	●	●	●	●	●
高/低压表 HP&LP Gauge	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲

说明: ●出厂标配;▲选配件,需额外付费;

Explain: ● Standard Configuration;▲ Optional,need extra costs;

#### 4.3.2 低温机组

Low temp. units

机组配件 Parts	OUBS-F 机组型号 Model of Unit							
	-08L	-10L	-15L/S15	-15L/V15	-20L	-25L	-30L	-40L
压缩机 Compressor	●	●	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●	●	●
水冷凝器 Water Condenser	●	●	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●	●	●
视液镜 Sight Glass	●	●	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●	●	●
高低压保护 HP/LP Switch	●	●	●	●	●	●	●	●
油保护 Oil Protective Switch	▲	▲	▲	●	●	●	●	●
高/低压表 HP&LP Gauge	●	●	●	●	●	●	●	●
气液分离器 Accumulator	▲	▲	▲	▲	▲	▲	▲	▲
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲	▲	▲

说明: ●出厂标配;▲选配件,需额外付费;

Explain: ● Standard Configuration;▲ Optional,need extra costs;



4.3.3 双级速冻机组  
Quick freezing unit with two stage compressor

机组配件 Parts	OUBS-F 机组型号 Model of Unit					
	-07J	-10J	-15J	-20J	-25J	-30J
双级压缩机 Two stage compressor	●	●	●	●	●	●
油加热 Oil Heater	●	●	●	●	●	●
排气减震管 Discharge Vibration Damper	●	●	●	●	●	●
油分离器 Oil Separator	●	●	●	●	●	●
水冷凝器 Water Condensor	●	●	●	●	●	●
干燥过滤器 Liquid Filter	●	●	●	●	●	●
视镜 Sight Glass	●	●	●	●	●	●
电磁阀 Solenoid Valve	●	●	●	●	●	●
经济器组件 Economizer assembly	●	●	●	●	●	●
高低压保护 HP/LP Switch	●	●	●	●	●	●
油保护 Oil Protective Switch	●	●	●	●	●	●
高/低压表 HP&LP Gauge	●	●	●	●	●	●
气液分离器 Accumulator	●	●	●	●	●	●
机组电控 Electric Control for Unit	▲	▲	▲	▲	▲	▲

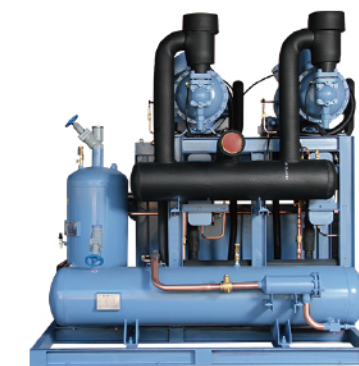
说明:●出厂标配;▲选配件,需额外付费;  
Explain: ● Standard Configuration;▲ Optional,need extra costs;



**XRW**

系列莱富康半封闭螺杆水冷冷凝机组

series Water-cooled Condensing unit With REFCOMP Screw Compressor





# XRW 系列莱富康半封闭螺杆水冷冷凝机组

## XRW series Water-cooled Condensing unit With REFCOMP Screw Compressor

### 1、产品概述 / Product description:

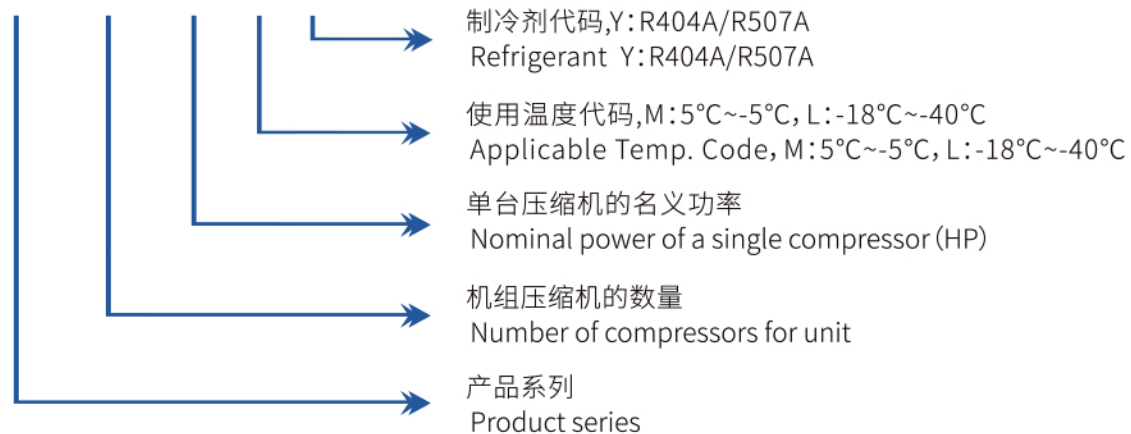
XRW 系列半封闭螺杆机组，主要配套于具有较大制冷量需求的冷库项目使用。

XRW series semi-hermetic screw unit is mainly used in cold storage projects with large cooling capacity requirements

- 1 主机采用莱富康SW3系列半封闭螺杆压缩机，具有单机机组和并联机组；  
Adopts Refcomp SW3 series screw compressor with single unit and parallel unit.
- 2 产品分中温机组和低温机组两个应用系列，中温机组主要满足0°C左右的冷库使用，低温机组主要满足-20°C低温冷藏库及-35°C的速冻库使用；  
The series of products include two application series of medium-temperature and low-temperature units. The medium-temperature unit mainly meets the requirements of cold storage at about 0°C, while the low-temperature unit mainly meets the requirements of low-temperature refrigeration storage at -20°C and quick-frozen storage at -35°C;
- 3 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，并配有单独的储液器；  
The standard design of the unit adopts the form of water cooling, adopts high efficient shell and tube type water cooling condenser, and is equipped with a separate liquid receiver.
- 4 低温机组配有经济器系统和油冷却器系统，采用板式油冷却器；  
The low temperature unit is equipped with an economizer system and an oil cooler system.
- 5 机组采用西门子PLC控制，关键电器元件采用施耐德；具有压缩机启停、能调、油冷系统、经济器系统、冷却水泵及冷却塔风机的控制及各种保护功能，并具有远程通讯功能；  
The unit is controlled by Siemens PLC and the key electrical components are controlled by Schneider. With compressor start and stop, energy regulation, oil cooling system, economizer system, cooling water pump and cooling tower fan control and various protection functions.
- 5 机组标准采用R404A或R507A制冷剂。  
The unit standard uses R404A or R507A refrigerant.

### 2、产品型号说明 / Model Explanation:

#### XRW - 1 - 50 L Y



### 3、主要技术参数 / Technical data:

#### 3.1 中温机组系列

Medium Temp. unit

#### 1) 制冷剂 Refrigerant R404A/R507A

机组型号 Model	XRW-1-50MY	XRW-1-60MY	XRW-1-70MY	XRW-1-90MY	XRW-1-105MY		
适用温度 Apply Temp. (°C)	-5~5°C						
电源 Power Supply	3P/380V/50Hz						
最大电流 Max.I (A)	90	105	124	140	180		
压缩机 Comp.	型号 Model	SW3H5000	SW3H6000	SW3H7500	SW3H9000	SW3H10500	
	数量 Number	1	1	1	1	1	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-5°C	102.8/36.0	120.0/42.0	140.4/49.2	162.4/56.9	196.0/68.6
		-10°C	84.2/35.9	98.2/41.8	115.0/49.0	133.0/56.7	160.5/68.4
		-15°C	68.3/35.2	79.7/41.1	93.4/48.1	108.0/55.7	130.3/67.2
冷凝器形式 Type of condenser	高效壳管式 Shell and tube type						
水流量 Water Flow m³/h	26	30	35	40	50		
冷却水接口 Water connect(inch)	G2-1/2"	G2-1/2"	G2-1/2"	DN80	DN80		
储液器 Receiver (L)	80	80	100	150	150		
供液接口 Liquid Line (mm)	φ 28	φ 28	φ 28	φ 35	φ 35		
吸气接口 Suction Line (mm)	DN50	DN50	DN65	DN65	DN80		
尺寸 Size	L (mm)	1650	1650	1920	2330	2330	
	W (mm)	1000	1000	1000	1150	1150	
	H (mm)	1520	1520	1650	1755	1830	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model	XRW-1-115MY	XRW-1-125MY	XRW-1-140MY	XRW-1-160MY		
适用温度 Apply Temp. (°C)	-5~5°C					
电源 Power Supply	3P/380V/50Hz					
最大电流 Max.I (A)	182	196	249	270		
压缩机 Comp.	型号 Model	SW3H11500	SW3H12500	SW3H14000	SW3H16000	
	数量 Number	1	1	1	1	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-5°C	217.9/76.3	233.6/81.8	267.9/101.6	296.5/112.4
		-10°C	178.5/76.0	191.4/81.5	216.0/96.3	239.1/106.6
		-15°C	144.9/74.7	155.4/80.1	173.2/90.7	191.7/100.4
冷凝器形式 Type of condenser	高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)	55	60	70	76		
冷却水接口 Water connect (inch)	DN80	DN80	DN100	DN100		
储液器 Receiver (L)	150	150	230	230		
供液接口 Liquid Line (mm)	φ 35	φ 35	φ 42	φ 42		
吸气接口 Suction Line (mm)	DN80	DN80	DN80	DN80		
尺寸 Size	L (mm)	2330	2330	2600	2600	
	W (mm)	1150	1150	1200	1200	
	H (mm)	1830	1830	1980	1980	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.



机组型号 Model		XRW-2-50MY	XRW-2-60MY	XRW-2-75MY	XRW-2-90MY	XRW-2-105MY	
适用温度 Apply Temp. (°C)		-5~5°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		180	210	248	280	360	
压缩机 Comp.	型号 Model	SW3H5000	SW3H6000	SW3H7500	SW3H9000	SW3H10500	
	数量 Number	2	2	2	2	2	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-5°C	205.6/72.0	240.0/84.0	280.8/98.4	324.8/113.8	392.0/137.2
		-10°C	168.4/71.8	196.4/83.6	230.0/98.0	266.0/113.4	321.0/136.8
		-15°C	136.6/70.4	159.4/82.2	186.8/96.2	216.0/111.4	260.6/134.4
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		52	60	71	82	100	
冷却水接口 Water connect (inch)		DN80	DN80	DN100	DN100	DN125	
储液器 Receiver (L)		150	150	210	210	280	
供液接口 Liquid Line (mm)		φ 35	φ 35	φ 42	φ 42	DN50	
吸气接口 Suction Line (mm)		DN80	DN80	DN100	DN100	DN100	
尺寸 Size	L (mm)	2480	2480	2480	2480	3000	
	W (mm)	1610	1610	1595	1595	1610	
	H (mm)	1850	1850	1985	1985	2060	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XRW-2-115MY	XRW-2-125MY	XRW-2-140MY	XRW-2-160MY	
适用温度 Apply Temp. (°C)		-5~5°C				
电源 Power Supply		3P/380V/50Hz				
最大电流 Max.I (A)		364	392	498	540	
压缩机 Comp.	型号 Model	SW3H11500	SW3H12500	SW3H14000	SW3H16000	
	数量 Number	2	2	2	2	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-5°C	435.8/152.6	467.2/163.6	535.8/203.2	593.0/224.8
		-10°C	357.0/152.0	382.8/163.0	432.0/192.6	478.2/213.2
		-15°C	289.8/149.4	310.8/160.2	346.4/181.4	383.4/200.8
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type				
冷却水流量 Water Flow (m³/h)		110	120	140	153	
冷却水接口 Water connect (inch)		DN125	DN150	DN150	DN150	
储液器 Receiver (L)		280	350	350	350	
供液接口 Liquid Line (mm)		DN50	DN50	DN50	DN50	
吸气接口 Suction Line (mm)		DN100	DN100	DN125	DN125	
尺寸 Size	L (mm)	3000	3000	3000	3000	
	W (mm)	1610	1730	1770	1770	
	H (mm)	2060	2260	2300	2300	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XRW-3-50MY	XRW-3-60MY	XRW-3-75MY	XRW-3-90MY	XRW-3-105MY	
适用温度 Apply Temp. (°C)		-5~5°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		270	315	372	420	540	
压缩机 Comp.	型号 Model	SW3H5000	SW3H6000	SW3H7500	SW3H9000	SW3H10500	
	数量 Number	3	3	3	3	3	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-5°C	308.4/108.0	360.0/126.0	421.2/147.6	487.2/170.7	588.0/205.8
		-10°C	252.6/107.7	294.6/125.4	345.0/147.0	399.0/170.1	481.5/205.2
		-15°C	204.9/105.6	239.1/123.3	280.2/144.3	324.0/167.1	390.9/210.6
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		78	90	106	123	150	
冷却水接口 Water connect (inch)		DN100	DN125	DN125	DN125	DN150	
储液器 Receiver (L)		200	280	280	350	350	
供液接口 Liquid Line (mm)		φ 42	DN50	DN50	DN50	DN50	
吸气接口 Suction Line (mm)		2×DN65	2×DN65	2×DN80	2×DN80	2×DN80	
尺寸 Size	L (mm)	3000	3000	3000	3000	3180	
	W (mm)	1610	1610	1540	1665	1665	
	H (mm)	1840	1840	1985	2185	2260	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XRW-3-115MY	XRW-3-125MY	XRW-3-140MY	XRW-3-160MY	XRW-4-50MY	
适用温度 Apply Temp. (°C)		-5~5°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		546	588	747	810	360	
压缩机 Comp.	型号 Model	SW3H11500	SW3H12500	SW3H14000	SW3H16000	SW3H5000	
	数量 Number	3	3	3	3	4	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-5°C	653.7/228.9	700.8/245.4	803.7/304.8	889.5/337.2	411.2/144.0
		-10°C	535.5/228.0	574.2/244.5	648.0/288.9	717.3/319.8	336.8/143.6
		-15°C	434.7/224.1	466.2/240.3	519.6/272.1	575.1/301.2	273.2/140.8
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		165	177	208	230	104	
冷却水接口 Water connect (inch)		DN150	DN150	DN200	DN200	DN125	
储液器 Receiver (L)		430	430	630	630	240	
供液接口 Liquid Line (mm)		DN50	DN50	DN65	DN65	φ 42	
吸气接口 Suction Line (mm)		2×DN100	2×DN100	2×DN125	2×DN125	2×DN65	
尺寸 Size	L (mm)	3600	3600	3840	3840	3600	
	W (mm)	1870	1870	2020	2020	1610	
	H (mm)	2260	2260	2400	2400	1840	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.



机组型号 Model		XRW-4-60MY	XRW-4-75MY	XRW-4-90MY	XRW-4-105MY	XRW-4-115MY	
适用温度 Apply Temp. (°C)		-5~5°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		420	496	560	720	728	
压缩机 Comp.	型号 Model	SW3H6000	SW3H7500	SW3H9000	SW3H10500	SW3H11500	
	数量 Number	4	4	4	4	4	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-5°C	480.0/168.0	561.6/196.8	649.6/227.6	784.0/274.4	871.6/305.2
		-10°C	460.0/167.2	460.0/196.0	532.0/226.8	642.0/273.6	714.0/304.0
		-15°C	318.8/164.4	373.6/192.4	432.0/222.8	521.2/268.8	579.6/298.8
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		121	142	164	198	220	
冷却水接口 Water connect		DN125	DN125	DN150	DN200	DN200	
储液器 Receiver (L)		330	330	430	630	630	
供液接口 Liquid Line (mm)		DN50	DN50	DN50	DN65	DN65	
吸气接口 Suction Line (mm)		2×DN65	2×DN80	2×DN100	2×DN125	2×DN125	
尺寸 Size	L (mm)	3600	3600	3800	4140	4140	
	W (mm)	1610	1600	1800	2020	2020	
	H (mm)	1940	2085	2085	2360	2360	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

### 3.2 低温机组系列

#### Low Temp. unit

#### 1) 制冷剂(带经济器) Refrigerant R404A/R507A ,with ECO

机组型号 Model		XRW-1-50LY	XRW-1-60LY	XRW-1-70LY	XRW-1-80LY	XRW-1-95LY	XRW-1-105LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C						
电源 Power Supply		3P/380V/50Hz						
最大电流 Max.I (A)		88	103	117	139	154	163	
压缩机 Comp.	型号 Model	SW3L5000	SW3L6000	SW3L7000	SW3L8000	SW3L9500	SW3L10500	
	数量 Number	1	1	1	1	1	1	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-25°C	71.8/41.4	82.6/48.8	93.7/55.7	116.3/68.6	127.2/75.0	133.9/79.6
		-30°C	58.5/40.2	67.2/46.4	76.2/53.0	94.9/65.6	104.0/71.6	109.6/76.0
		-35°C	47.0/39.3	53.9/44.2	61.2/50.5	76.4/62.7	83.8/68.6	88.4/73.0
		-40°C	37.0/38.5	42.5/42.5	48.3/48.5	60.5/60.5	66.4/66.2	70.1/70.3
		-45°C	28.4/38.1	32.7/41.1	37.2/47.0	46.8/58.9	51.3/64.3	54.3/68.5
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type						
冷却水流量 Water Flow (m³/h)		21	25	28	35	38	40	
冷却水接口 Water connect		G2-1/2"	G2-1/2"	G2-1/2"	G2-1/2"	DN80	DN80	
油冷形式 Oil Cooler Type		板式 Plate type						
油冷水接口 Oil cooler nozzle		DN25	DN32	DN32	DN32	DN32	DN32	
储液器 Receiver (L)		80	80	80	100	150	150	
供液接口 Liquid Line (mm)		φ 28	φ 28	φ 28	φ 28	φ 35	φ 35	
吸气接口 Suction Line (mm)		DN50	DN65	DN65	DN80	DN80	DN80	
尺寸 Size	L (mm)	1650	1650	1650	1920	2330	2330	
	W (mm)	1000	1000	1000	1000	1150	1150	
	H (mm)	1520	1650	1650	1730	1830	1830	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XRW-1-115LY	XRW-1-130LY	XRW-1-160LY	XRW-1-180LY	XRW-1-200LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		196	210	236	250	270	
压缩机 Comp.	型号 Model	SW3L11500	SW3L13000	SW3L16000	SW3L18000	SW3L20000	
	数量 Number	1	1	1	1	1	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-25°C	169.6/100.0	187.3/108.8	219.8/127.0	235.4/131.0	248.7/137.7
		-30°C	139.8/98.0	154.3/106.5	182.3/125.6	194.3/128.2	205.5/134.7
		-35°C	113.5/96.3	125.2/104.5	148.9/124.8	157.8/125.6	167.2/132.1
		-40°C	90.5/95.1	99.6/102.7	119.2/124.3	125.8/123.6	133.4/130.0
		-45°C	70.1/94.0	77.2/101.5	92.8/124.1	97.6/121.8	103.7/128.2
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		50	55	65	70	72	
冷却水接口 Water connect		DN80	DN80	DN100	DN100	DN100	
油冷形式 Oil Cooler Type		板式 Plate type					
油冷水接口 Oil cooler nozzle		DN32	DN32	DN50	DN50	DN50	
储液器 Receiver (L)		150	150	230	230	230	
供液接口 Liquid Line (mm)		φ 35	φ 35	φ 42	φ 42	φ 42	
吸气接口 Suction Line (mm)		DN80	DN80	DN80	DN100	DN100	
尺寸 Size	L (mm)	2330	2330	2600	2600	2600	
	W (mm)	1150	1150	1200	1200	1200	
	H (mm)	1875	1875	1985	2025	2025	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XRW-2-50LY	XRW-2-60LY	XRW-2-70LY	XRW-2-80LY	XRW-2-95LY	XRW-2-105LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C						
电源 Power Supply		3P/380V/50Hz						
最大电流 Max.I (A)		176	206	234	278	308	326	
压缩机 Comp.	型号 Model	SW3L5000	SW3L6000	SW3L7000	SW3L8000	SW3L9500	SW3L10500	
	数量 Number	2	2	2	2	2	2	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-25°C	143.6/82.8	165.2/97.6	187.4/111.4	232.6/137.2	254.4/150.0	267.8/159.2
		-30°C	117.0/80.4	134.4/92.8	152.4/106.0	189.8/131.0	208.0/143.2	219.2/152.0
		-35°C	94.0/78.6	107.8/88.4	122.4/101.0	152.8/125.4	167.6/137.2	176.8/146.0
		-40°C	74.0/77.0	85.0/85.0	96.6/97.0	121.0/121.0	132.8/132.4	140.2/140.6
		-45°C	56.8/76.2	65.4/82.2	74.4/94.0	93.6/117.8	102.6/128.6	108.6/137.0
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type						
冷却水流量 Water Flow (m³/h)		43	50	56	70	76	80	
冷却水接口 Water connect		DN80	DN80	DN80	DN100	DN100	DN100	
油冷形式 Oil Cooler Type		板式 Plate type						
油冷水接口 Oil cooler nozzle		DN32	DN50	DN50	DN50	DN50	DN50	
储液器 Receiver (L)		150	150	150	210	210	210	
供液接口 Liquid Line (mm)		φ 35	φ 35	φ 35	φ 42	φ 42	φ 42	
吸气接口 Suction Line (mm)		DN80	DN100	DN100	DN100	DN100	DN100	
尺寸 Size	L (mm)	2330	2330	2330	2380	2380	2380	
	W (mm)	1800	1800	1800	1800	1800	1800	
	H (mm)	1945	2090	2090	2160	2160	2160	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.



机组型号 Model		XRW-2-115LY	XRW-2-130LY	XRW-2-160LY	XRW-2-180LY	XRW-2-200LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		392	420	472	500	540	
压缩机 Comp.	型号 Model	SW3L11500	SW3L13000	SW3L16000	SW3L18000	SW3L20000	
	数量 Number	2	2	2	2	2	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-25°C	339.2/200.0	374.6/217.6	439.6/254.0	470.8/262.0	497.4/275.4
		-30°C	279.6/196.0	308.6/213.0	364.6/251.2	388.6/256.4	411.0/269.4
		-35°C	227.0/192.6	250.4/209.0	297.8/249.6	315.6/251.2	334.4/264.2
		-40°C	181.0/190.2	199.2/205.4	238.4/248.6	251.6/247.2	266.8/260.0
		-45°C	140.2/188.0	154.4/203.0	185.6/248.2	195.2/243.6	207.4/256.4
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		100	110	130	138	145	
冷却水接口 Water connect		DN100	DN125	DN125	DN150	DN150	
油冷形式 Oil Cooler Type		板式 Plate type					
油冷水接口 Oil cooler nozzle		DN50	DN50	DN50	DN65	DN65	
储液器 Receiver (L)		280	350	350	350	350	
供液接口 Liquid Line (mm)		DN50	DN50	DN50	DN50	DN50	
吸气接口 Suction Line (mm)		DN125	DN125	DN150	DN150	DN150	
尺寸 Size	L (mm)	3000	3000	3000	3000	3000	
	W (mm)	2000	2000	2000	2000	2000	
	H (mm)	2400	2400	2400	2450	2450	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XRW-3-50LY	XRW-3-60LY	XRW-3-70LY	XRW-3-80LY	XRW-3-95LY	XRW-3-105LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C						
电源 Power Supply		3P/380V/50Hz						
最大电流 Max.I (A)		264	309	351	417	462	489	
压缩机 Comp.	型号 Model	SW3L5000	SW3L6000	SW3L7000	SW3L8000	SW3L9500	SW3L10500	
	数量 Number	3	3	3	3	3	3	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-25°C	215.4/124.2	247.8/146.4	281.1/167.1	348.9/205.8	381.6/225.0	401.7/238.8
		-30°C	175.5/120.6	201.6/139.2	228.6/159.0	284.7/196.5	312.0/214.8	328.8/228.0
		-35°C	141.0/117.9	161.7/132.6	183.6/151.5	229.2/188.1	251.4/205.8	265.2/219.0
		-40°C	111.0/115.5	127.5/127.5	144.9/145.5	181.5/181.5	199.2/198.6	210.3/210.9
		-45°C	85.2/114.3	98.1/123.3	111.6/141.0	140.4/176.7	307.8/192.9	162.9/205.5
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type						
冷却水流量 Water Flow (m³/h)		65	75	85	105	115	120	
冷却水接口 Water connect		DN100	DN100	DN125	DN125	DN125	DN125	
油冷形式 Oil Cooler Type		板式 Plate type						
油冷水接口 Oil cooler nozzle		DN50	DN50	DN50	DN50	DN50	DN50	
储液器 Receiver (L)		200	200	280	280	350	350	
供液接口 Liquid Line (mm)		φ 42	φ 42	DN50	DN50	DN50	DN50	
吸气接口 Suction Line (mm)		2×DN65	2×DN80	2×DN80	2×DN100	2×DN100	2×DN100	
尺寸 Size	L (mm)	3000	3000	3000	3000	3000	3000	
	W (mm)	1800	1800	1800	1800	1800	1850	
	H (mm)	1945	2090	2090	2160	2260	2310	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XRW-3-115LY	XRW-3-130LY	XRW-3-160LY	XRW-3-180LY	XRW-3-200LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		588	630	708	750	810	
压缩机 Comp.	型号 Model	SW3L11500	SW3L13000	SW3L16000	SW3L18000	SW3L20000	
	数量 Number	3	3	3	3	3	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-25°C	508.8/300.0	561.9/326.4	659.4/381.0	706.2/393.0	746.1/413.1
		-30°C	419.4/294.0	462.9/319.5	546.9/376.8	582.9/384.6	616.5/404.1
		-35°C	340.5/288.9	375.6/313.5	446.7/374.4	473.4/376.8	501.6/396.3
		-40°C	271.5/285.3	298.8/308.1	357.6/372.9	377.4/370.8	400.2/390.0
		-45°C	210.3/282.0	231.6/304.5	278.4/372.3	292.8/365.4	622.2/384.6
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		152	166	195	206	220	
冷却水接口 Water connect		DN150	DN150	DN200	DN200	DN200	
油冷形式 Oil Cooler Type		板式 Plate type					
油冷水接口 Oil cooler nozzle		DN65	DN80	DN80	DN80	DN80	
储液器 Receiver (L)		430	430	630	630	630	
供液接口 Liquid Line (mm)		DN50	DN50	DN65	DN65	DN65	
吸气接口 Suction Line (mm)		2×DN125	2×DN125	2×DN125	2×DN125	2×DN125	
尺寸 Size	L (mm)	3600	3600	3760	3760	3760	
	W (mm)	2000	2000	2150	2150	2150	
	H (mm)	2400	2400	2400	2450	2450	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XRW-4-50LY	XRW-4-60LY	XRW-4-70LY	XRW-4-80LY	XRW-4-95LY	XRW-4-105LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C						
电源 Power Supply		3P/380V/50Hz						
最大电流 Max.I (A)		352	412	468	556	616	652	
压缩机 Comp.	型号 Model	SW3L5000	SW3L6000	SW3L7000	SW3L8000	SW3L9500	SW3L10500	
	数量 Number	4	4	4	4	4	4	
制冷量/功率 Capa./Power (KW)	蒸发 Evap.	-25°C	287.2/165.6	330.4/195.2	374.8/222.8	465.2/274.4	508.8/300.0	535.6/318.4
		-30°C	234.0/160.8	304.8/185.6	304.8/212.0	379.6/262.0	416.0/286.4	438.4/304.0
		-35°C	188.0/157.2	215.6/176.8	244.8/202.0	305.6/250.8	335.2/274.4	353.6/292.0
		-40°C	148.0/154.0	170.0/170.0	193.2/194.0	242.0/242.0	265.6/264.8	280.4/281.2
		-45°C	113.6/152.4	130.8/164.4	148.8/188.0	187.2/235.6	205.2/257.2	217.2/274.0
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type						
冷却水流量 Water Flow (m³/h)		85	98	112	140	151	160	
冷却水接口 Water connect		DN125	DN125	DN125	DN125	DN150	DN150	
油冷形式 Oil Cooler Type		板式 Plate type						
油冷水接口 Oil cooler nozzle		DN50	DN65	DN65	DN65	DN80	DN80	
储液器 Receiver (L)		240	240	330	330	430	430	
供液接口 Liquid Line (mm)		φ 42	φ 42	DN50	DN50	DN50	DN50	
吸气接口 Suction Line (mm)		2×DN80	2×DN100	2×DN100	2×DN100	2×DN125	2×DN125	
尺寸 Size	L (mm)	3600	3600	3600	3700	3700	3700	
	W (mm)	1800	1800	1800	1800	1800	1800	
	H (mm)	1945	2090	2090	2160	2310	2360	

备注:冷凝温度40°C。  
Remark: Condensing temperature 40°C.



#### 4. 机组配置 / Standard Configuration and Optional Configuration:

机组配件 Parts	配置 Configuration	
	××MY 型机组 Units of XXMY	××LY 型机组 Units of XXLY
压缩机 Screw Compressor	●	●
油分离器 Oil Separator	●	●
截止止回阀 Stop check valve	●	●
水冷冷凝器 Water condenser	●	●
储液器 Receiver	●	●
干燥过滤器 Liquid Filter	●	●
视液镜 Sight Glass	●	●
经济器系统 Economizer assembly	--	●
油路系统 Oil line assembly	●	●
油冷却器(板式) Oil cooler	--	●
压缩机吸气过滤器 Suction Filter	●	●
压缩机高、低压压控 HP/LP Switch for Compressor	●	●
高、低压压力表 HP/LP Guage	●	●
供液管接口截止阀 Liquid Line Valve	●	●
吸气管接口截止阀 Suction Line Valve	▲	▲
机组控制箱 (PLC+10"触摸屏+远程): 包括压缩机、水泵及冷却塔风机控制 Electric Control for Unit(PLC+ Touch screen)	●	●

备注:1) ●:标准配置;▲:可选配置;2) 对于电控部分,如需库温及冷风机的控制,请特殊说明。3) 机组不含冷冻油。  
Remark: 1. ● Standard Configuration;▲ Optional,need costs extra. 2. For the electric control part, if you need the control of storage temperature and air cooler, please specify. 3. The unit does not contain frozen oil .

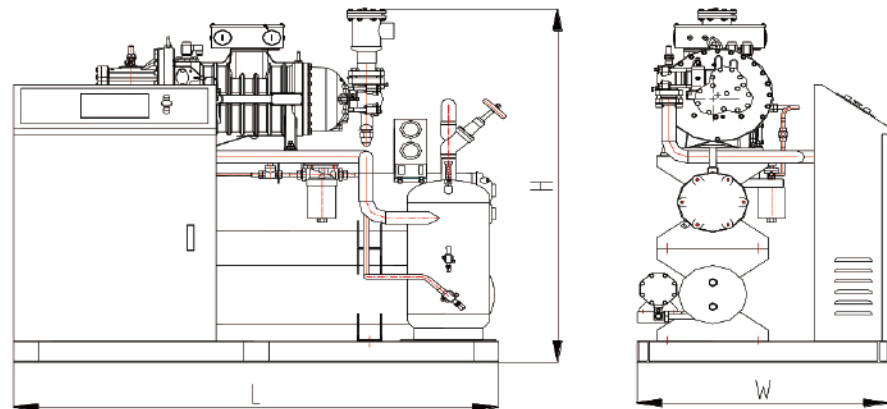
#### 5. 机组外形尺寸图 / Dimension Drawing:

##### 5.1 中温型机组

Medium Temp. Units

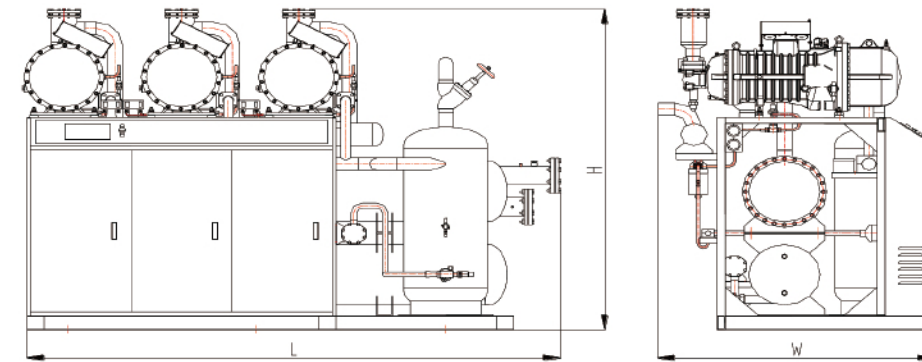
##### 5.1 .1 单机机组尺寸图

Unit with one compressor



##### 5.1 .2 并联机组尺寸图

Unit with multiple compressors

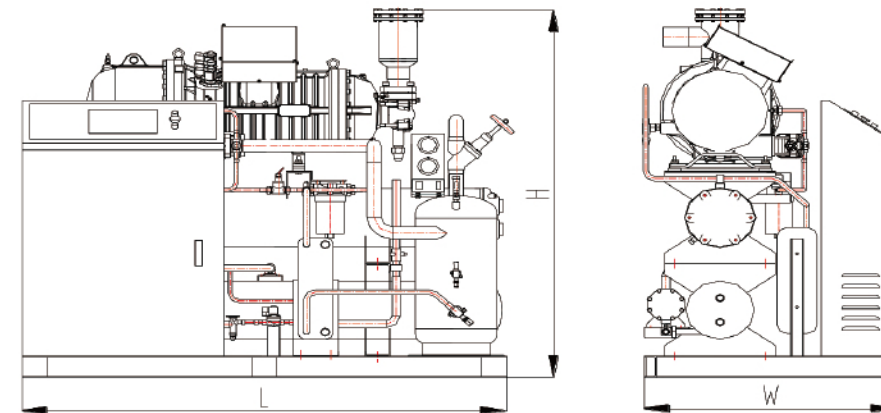


##### 5.2 低温型机组

Low Temp. Units

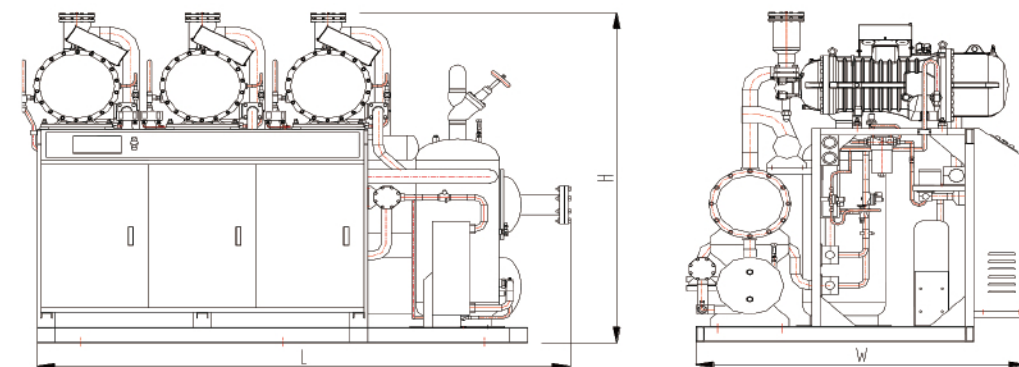
##### 5.2 .1 单机机组尺寸图

Unit with one compressor



##### 5.2 .2 并联机组尺寸图

Unit with multiple compressors







## XBW 系列比泽尔半封闭螺杆水冷冷凝机组

XBW series Water-cooled Condensing unit With BITZER Screw Compressor

### 1、产品概述 / Product description:

XBW 系列半封闭低温螺杆机组, 主要配套于具有较大制冷量需求的冷库项目使用。

XBW series semi-hermetic screw unit is mainly used in cold storage projects with large cooling capacity requirements

- 1、主机采用比泽尔品牌的HSN系列半封闭低温螺杆压缩机, 主要满足-18°C以下低温冷藏库及-35°C的速冻库使用, 单机名义功率从50HP-160HP, 具有单机机组和并联机组;  
Adopts BITZER HSN series low screw compressor with single unit and parallel unit. It mainly meets the requirements of low-temperature refrigeration storage at -20°C and quick-frozen storage at -35°C with BITZER or FRASCOLD, it has good quality and high reliability.
- 2 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, 并配有单独的储液器;  
The standard design of the unit adopts the form of water cooling, adopts high efficient shell and tube type water cooling condenser, and is equipped with a separate liquid receiver.
- 3 机组标准设计配有外置高效油分、经济器系统和油冷却器系统, 采用板式油冷却器;  
The unit is equipped with an economizer system and an oil cooler system.
- 4 机组采用西门子PLC控制, 关键电器元件采用施耐德; 具有压缩机启停、能调、油冷系统、经济器系统、冷却水泵及冷却塔风机的控制及各种保护功能, 并具有远程通讯功能。  
The unit is controlled by Siemens PLC and the key electrical components are controlled by Schneider. With compressor start and stop, energy regulation, oil cooling system, economizer system, cooling water pump and cooling tower fan control and various protection functions. tures; temperatures;
- 5 机组标准采用R404A或R507A制冷剂。  
The unit standard uses R404A or R507A refrigerant

# XBW

## 系列比泽尔半封闭螺杆水冷冷凝机组

series Water-cooled Condensing unit With BITZER Screw Compressor



### 2、产品型号说明 / Model Explanation:

**XBW - 1 - 50 L Y**





### 3. 机组技术参数 / Technical Data:

#### 1) 制冷剂 (带经济器) Refrigerant R404A/R507A ,with ECO

机组型号 Model		XBW-1-50LY	XBW-1-60LY	XBW-1-70LY	XBW-1-75LY	XBW-1-110LY	XBW-1-125LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C						
电源 Power Supply		3P/380V/50Hz						
最大电流 Max.I (A)		79	98	124	144	197	216	
压缩机 Comp.	型号 Model	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	
	数量 Number	1	1	1	1	1	1	
制冷量/功率 Capa./Power	蒸发 Evap.	-25°C	69.2 /42.6	84.1 /51.1	95.5/55.2	100.4 /60.7	142.2 /90.1	165.1 /96.0
		-30°C	57.2 /40.8	69.0 /50.0	78.7 /53.4	82.9 /58.1	115.3/86.9	136.3 /91.5
		-35°C	46.7 /39.0	55.7 /48.9	63.9 /51.5	67.7 /55.5	92.2/83.6	111.2 /87.5
		-40°C	37.5 /37.2	44.2 /47.6	51.0 /49.6	54.5 /53.0	72.3 /80.7	89.4 /83.9
		-45°C	29.5 /35.4	34.2/46.1	39.9 /47.7	43.0 /50.7	55.5 /78.7	70.5/80.7
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type						
冷却水流量 Water Flow (m³/h)		22	27	30	32	46	51	
冷却水接口 Water connect		G2-1/2"	G2-1/2"	G2-1/2"	G2-1/2"	DN80	DN80	
油冷形式 Oil Cooler Type		板式 Plate type						
油冷液接口 Oil cooler nozzle		DN25	DN32	DN32	DN32	DN32	DN32	
储液器 Receiver (L)		80	80	80	100	150	150	
供液接口 Liquid Line (mm)		φ 28	φ 28	φ 28	φ 28	φ 35	φ 35	
吸气接口 Suction Line (mm)		DN50	DN80	DN80	DN80	DN100	DN100	
尺寸 Size	L (mm)	1650	1650	1650	1920	2330	2330	
	W (mm)	1000	1000	1000	1000	1100	1100	
	H (mm)	1510	1660	1660	1660	1845	1845	

备注:冷量标定冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XBW-1-160LY	XBW-2-50LY	XBW-2-60LY	XBW-2-70LY	XBW-2-75LY	XBW-2-110LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C						
电源 Power Supply		3P/380V/50Hz						
最大电流 Max.I (A)		274	158	196	248	288	394	
压缩机 Comp.	型号 Model	HSN8591-160	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	HSN8561-110	
	数量 Number	1	2	2	2	2	2	
制冷量/功率 Capa./Power	蒸发 Evap.	-25°C	206.0 /123.5	138.4 /85.2	168.2 /102.2	191.0 /110.4	200.8 /121.4	284.4/180.2
		-30°C	169.4 /119.3	114.4 /81.6	138.0 /100.0	157.4 /106.8	165.8/116.2	230.6 /173.8
		-35°C	137.8 /114.9	93.4 /78.0	111.4/97.8	127.8 /103.0	135.4/111.0	184.4 /167.2
		-40°C	110.3 /110.2	75.0 /74.4	88.4 /95.2	102.0 /99.2	109.0 /106.0	144.6 /161.4
		-45°C	86.4 /104.9	59.0 /70.8	68.4 /92.2	79.8 /95.4	86.0 /101.4	111.0 /157.4
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type						
冷却水流量 Water Flow (m³/h)		65	44	53	59	63	91	
冷却水接口 Water connect		DN100	DN80	DN80	DN80	DN100	DN125	
油冷形式 Oil Cooler Type		板式 Plate type						
油冷液接口 Oil cooler nozzle		DN50	DN32	DN50	DN50	DN50	DN50	
储液器 Receiver (L)		230	150	150	150	210	280	
供液接口 Liquid Line (mm)		φ 42	φ 35	φ 35	φ 35	φ 42	DN50	
吸气接口 Suction Line (mm)		DN100	DN80	DN100	DN100	DN100	DN125	
尺寸 Size	L (mm)	2600	2330	2330	2330	2330	3030	
	W (mm)	1200	1800	1800	1800	1800	1950	
	H (mm)	1950	1950	2090	2090	2190	2275	

备注:冷量标定冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XBW-2-125LY	XBW-2-160LY	XBW-3-50LY	XBW-3-60LY	XBW-3-70LY	XBW-3-75LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C						
电源 Power Supply		3P/380V/50Hz						
最大电流 Max.I (A)		432	548	237	294	372	432	
压缩机 Comp.	型号 Model	HSN8571-125	HSN8591-160	HSN6461-50	HSN7451-60	HSN7461-70	HSN7471-75	
	数量 Number	2	2	3	3	3	3	
制冷量/功率 Capa./Power	蒸发 Evap.	-25°C	330.2 /192.0	412.0 /247.0	207.6 /127.8	252.3 /153.3	286.5 /165.6	301.2/182.1
		-30°C	272.6 /183.0	338.8 /238.6	171.6/122.4	207.0 /150.0	236.1/160.2	248.7 /174.3
		-35°C	222.4 /175.0	275.6/229.8	140.1/117.0	167.1/146.7	191.7 /154.5	203.1/166.5
		-40°C	178.8 /167.8	220.6/220.4	112.5/111.6	132.6/142.8	153.0 /148.8	163.5 /159.0
		-45°C	141.0 /161.4	172.8/209.8	88.5/106.2	102.6/138.3	119.7/143.1	129.0/152.1
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type						
冷却水流量 Water Flow (m³/h)		102	129	66	80	89	95	
冷却水接口 Water connect		DN125	DN125	DN100	DN100	DN125	DN125	
油冷形式 Oil Cooler Type		板式 Plate type						
油冷液接口 Oil cooler nozzle		DN50	DN65	DN50	DN50	DN50	DN50	
储液器 Receiver (L)		280	350	200	200	280	280	
供液接口 Liquid Line (mm)		DN50	DN50	φ 42	φ 42	DN50	DN50	
吸气接口 Suction Line (mm)		DN125	DN125	2×DN65	2×DN100	2×DN100	2×DN100	
尺寸 Size	L (mm)	3030	3030	3030	3030	3030	3030	
	W (mm)	1950	1950	1800	1800	1800	1800	
	H (mm)	2275	2275	1945	2090	2190	2190	

备注:冷量标定冷凝温度40°C。  
Remark: Condensing temperature 40°C.

机组型号 Model		XBW-3-110LY	XBW-3-125LY	XBW-3-160LY	XBW-4-50LY	XBW-4-60LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		591	648	822	316	392	
压缩机 Comp.	型号 Model	HSN8561-110	HSN8571-125	HSN8591-160	HSN6461-50	HSN7451-60	
	数量 Number	3	3	3	4	4	
制冷量/功率 Capa./Power	蒸发 Evap.	-25°C	426.6 /270.3	495.3 /288.0	618.0/370.5	276.8/170.4	336.4/204.4
		-30°C	345.9/260.7	408.9/274.5	508.2/357.9	228.8/163.2	314.8/200.0
		-35°C	276.6/250.8	333.6/262.5	413.4/344.7	186.8/156.0	222.8/195.6
		-40°C	216.9/242.1	268.2/251.7	330.9/330.6	150.0/148.8	176.8/190.4
		-45°C	333.0/236.1	211.5/242.1	259.2/314.7	118.0/141.6	136.8/184.4
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		136	153	193	88	106	
冷却水接口 Water connect		DN125	DN150	DN200	DN125	DN125	
油冷形式 Oil Cooler Type		板式 Plate type					
油冷液接口 Oil cooler nozzle		DN80	DN65	DN80	DN50	DN65	
储液器 Receiver (L)		330	430	430	240	240	
供液接口 Liquid Line (mm)		DN50	DN50	DN50	φ 42	φ 42	
吸气接口 Suction Line (mm)		2×DN125	2×DN125	2×DN125	2×DN80	2×DN100	
尺寸 Size	L (mm)	3600	3600	3600	3600	3600	
	W (mm)	2000	2000	2000	1800	1800	
	H (mm)	2375	2375	2375	1945	2190	

备注:冷量标定冷凝温度40°C。  
Remark: Condensing temperature 40°C.



机组型号 Model		XBW-4-70LY	XBW-4-75LY	XBW-4-110LY	XBW-4-125LY	XBW-4-160LY	
适用温度 Apply Temp. (°C)		-18°C~-40°C					
电源 Power Supply		3P/380V/50Hz					
最大电流 Max.I (A)		496	576	788	864	1096	
压缩机 Comp.	型号 Model	HSN7461-70	HSN7471-75	HSN8561-110	HSN8571-125	HSN8591-160	
	数量 Number	4	4	4	4	4	
制冷量/功率 Capa./Power	蒸发 Evap.	-25°C	382.0 /220.8	401.6 /242.8	568.8/360.4	660.4/384.0	824.0/494.0
		-30°C	314.8/213.6	331.6/232.4	461.2/347.6	545.2/366.0	677.6/477.2
		-35°C	255.6/206.0	270.8/222.0	368.8/334.4	444.8/350.0	551.2/459.6
		-40°C	204.0/198.4	218.0/212.0	289.2/322.8	357.6/335.6	441.2/440.8
		-45°C	159.6/190.8	172.0/202.8	222.0/314.8	282.0/322.8	345.6/419.6
冷凝器形式 Type of condenser		高效壳管式 Shell and tube type					
冷却水流量 Water Flow (m³/h)		118	126	182	205	258	
冷却水接口 Water connect		DN125	DN125	DN150	DN200	DN200	
油冷形式 Oil Cooler Type		板式 Plate type					
油冷水接口 Oil cooler nozzle		DN65	DN65	DN80	DN80	DN80	
储液器 Receiver (L)		330	330	430	630	630	
供液接口 Liquid Line (mm)		DN50	DN50	DN50	DN65	DN65	
吸气接口 Suction Line (mm)		2×DN100	2×DN100	2×DN125	2×DN125	2×DN125	
尺寸 Size	L (mm)	3600	3600	3955	4010	4010	
	W (mm)	1800	1800	2000	2150	2150	
	H (mm)	2290	2290	2375	2375	2375	

备注:冷量标定冷凝温度40°C。  
Remark: Condensing temperature 40°C.

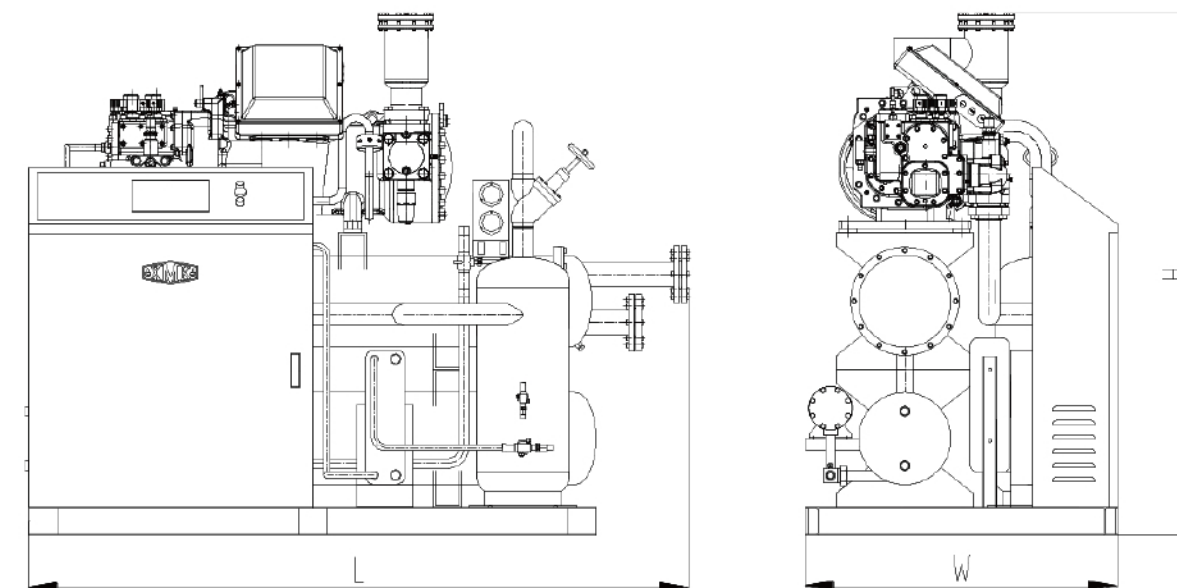
#### 4. 机组配置 / Standard Configuration and Optional Configuration:

机组配件 Parts	配置 Configuration	
	××LY型机组 Units of XXLY	
压缩机 Screw Compressor	●	
油分离器 Oil Separator	●	
截止止回阀 Stop check valve	●	
水冷冷凝器 Water condenser	●	
储液器 Receiver	●	
机组配件 Parts	●	
视液镜 Sight Glass	●	
经济器系统 Economizer assembly	●	
油路系统 Oil line assembly	●	
油冷却器 (板式) Oil cooler	●	
压缩机吸气过滤器 Suction Filter	●	
压缩机高、低压压控 HP/LP Switch for Compressor	●	
高、低压压力表 HP/LP Guage	●	
供液管接口截止阀 Liquid Line Valve	●	
吸气管接口截止阀 Suction Line Valve	▲	
机组控制箱 (PLC+10"触摸屏+远程): 包括压缩机、水泵及冷却塔风机控制 Electric Control for Unit(PLC+ Touch screen)	●	

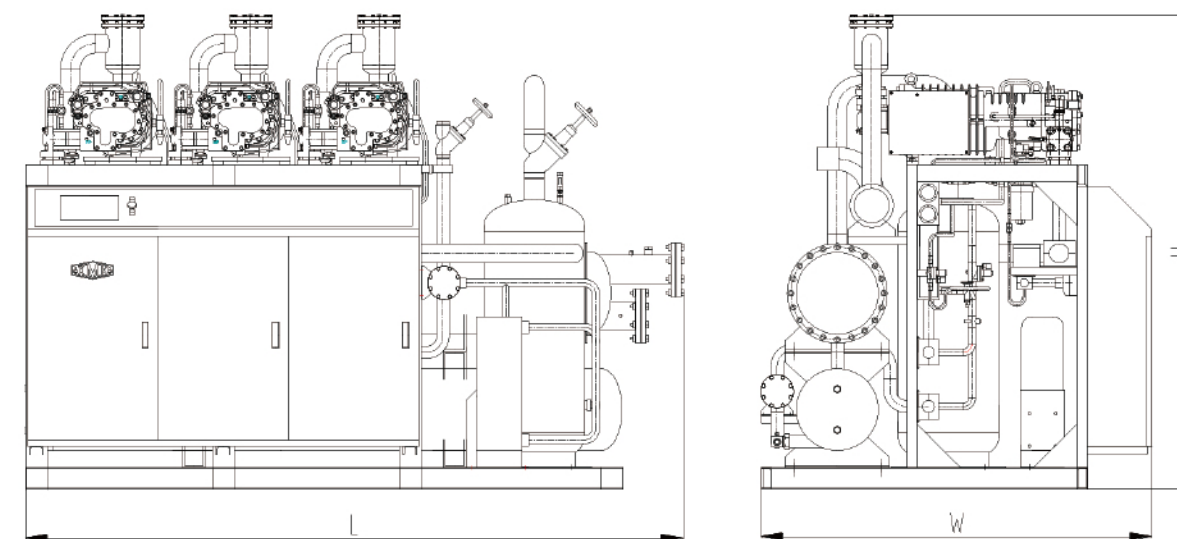
备注:1) ●:标准配置;▲:可选配置;2) 对于电控部分,如需库温及冷风机的控制,请特殊说明。3) 机组不含冷冻油。  
Remark: 1. ● Standard Configuration;▲ Optional,need costs extra. 2. For the electric control part, if you need the control of storage temperature and air cooler, please specify. 3. The unit does not contain frozen oil

#### 5. 机组外形尺寸图 / Dimension Drawing:

5.1 单机机组尺寸图  
Unit with one compressor



5.2 并联机组尺寸图  
Unit with multiple compressors





## 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	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	冻结好的肉、禽类等,冻结好饺子汤圆、冰棒雪糕等	-18°C
黄瓜、西红柿、菜豆、柿子椒、菠萝、柑等	7~13°C	鸡蛋、牛奶、茶叶等储存	2~5°C	冻结好的虾鱼、冰淇淋等	-20~-23°C
土豆、山芋、洋葱、橘子、荔枝等	2~4°C	冰鲜鱼、冷鲜肉、熟食品等	-1~2°C	速冻加工库	-28~-35°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	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°C~20°C	5~-5°C	-15~-25°C	-28°C及以下
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。

⑦ 选型实例:某低温冷藏库,库温-18°C、要求制冷量为20kw、使用制冷剂R404A,在广州使用。

如果选用比泽尔半封闭压缩机,采用箱式冷凝机组,根据库温-18°C,蒸发温度可定为-25°C,广州空气调节日平均温度为30°C(可按32°C的环境温度),查机组冷量参数表,则可得到型号BUB23LBBY,在环境温度32°C、蒸发温度-25°C工况下,制冷量为20.8KW。

## Selection guide of condensing unit

The selection of the condensing unit shall be based on the comprehensive consideration of the required refrigeration load, use temperature, operating evaporation temperature, ambient temperature, refrigerant, power supply form and other factors.

① About the refrigeration load: the refrigeration load applied in the cold storage shall include the heat transfer of the enclosure structure of the storage, the heat of goods, the heat of the operating motor in the storage, the heat of air exchange, the heat of operation, etc., and shall be calculated in detail in combination with the specific application properties of the cold storage;

② About the use temperature: for the application of cold storage, the use temperature of cold storage should be reasonably determined, which can be determined by referring to the following table

Cold storage use	Recommended temperature	Cold storage use	Recommended temperature	Cold storage use	Recommended temperature
Banana etc storage	11~16°C	Red wine, chocolate storage	7~18°C	Frozen meat, poultry, frozen dumplings, Popsicle, etc	-18°C
Cucumber, tomato, bean, persimmon pepper, pineapple, orange, etc	7~13°C	Storage of eggs, milk, tea, etc	2~5°C	Frozen shrimp, fish, ice cream, etc	-20~-23°C
Potatoes, taro, onion, orange, lychee, etc	2~4°C	Ice fresh fish, cold fresh meat, cooked food, etc	-1~2°C	Quick frozen processing	-28~-35°C
Cabbage, garlic, carrot, lettuce, apple, pear, etc	0~2°C	Ice storage	-5~-10°C	Tuna frozen products storage	-55~-60°C

③ About the operating evaporation temperature: the evaporation temperature directly affects the refrigeration capacity and energy efficiency of the unit. The evaporation temperature shall be reasonably determined in combination with the actual use temperature, which is generally 5-10 °C lower than the storage temperature. It can be determined by referring to the following table:

Cold room temp.	10°C	0°C	-18°C	-25°C	-35°C	-55°C
Recommended evap. temp.	0°C	-8°C	-25°C	-31°C	-41°C	-60°C

Select the appropriate unit according to the determined evaporation temperature, which can be selected according to the following table:

Cold room temp.	7°C~20°C	5~-5°C	-15~-25°C	-28°Cand below
Unit selection	High temp.unit (H)	Medium temp.unit (M)	Low temp.unit (L)	Quick freezing unit (J)

④ About the ambient temperature: the ambient temperature of the unit using area shall be determined according to the average temperature of the summer air conditioning festival in the area (check the relevant meteorological data), rather than the maximum limit temperature. Generally, it can be selected according to the ambient temperature of 32°C. The standard design ambient temperature of air-cooled unit is 32 °C. When it is used in the high ambient temperature area above 38°C, the configuration of condenser shall be adjusted, and special attention shall be paid to the selection.

⑤ About refrigerants: commonly used refrigerants include R22, R404A, R507A, R448A, R449A, etc.

• R22: Because of its ozone depletion potential index ODP = 0.055, it has a destructive effect on the ozone layer in the atmosphere. It has been eliminated or restricted in some countries and regions, and belongs to the phase out refrigerant. when R22 is used for low evaporation temperature (below -25°C), because the exhaust temperature of compressor is high, necessary auxiliary cooling devices (such as DTC valve, cylinder head fan, etc.) must be added, so R22 should not be used for low temperature unit as much as possible.

• R404A、R507A: Due to its higher global warming potential (GWP), it has been restricted in some countries and regions and belongs to the phase out refrigerant. R404A and R507A can be used at high, medium and low temperature.

• R448A、R449A: Its ODP = 0 and GWP is lower, so it is a kind of widely used refrigerant, which can meet the needs of high, medium and low temperature.

• When selecting the unit, the policies and regulations of the country or region used for the refrigerant shall be fully considered.

⑥ About the power supply: the standard power supply of the unit is 380V/3P/50Hz. For other forms of power supply, special instructions must be given, and special attention shall be paid to the selection.

⑦ Example of model selection: a cold storage with temperature of -18°C, refrigeration capacity of 10kW and refrigerant R404A is used in china Guangzhou city.

According to the storage temperature of -18°C, the evaporation temperature can be determined as -25°C, and the average temperature of Guangzhou air conditioning festival is 30°C (the ambient temperature can be accorded to 32°C), the unit model BUW08LBEY can be obtained by checking the unit parameter table.



## 西麦柯冷凝机组冷库应用快速选型表

Quick Selection reference for Condensing Unit cold room Application

### 1、保鲜库(库温-2°C~5°C) / Fresh storage room (Room temp. -2 to 5°C)

库内容积 Cold room inne volume (m <sup>3</sup> )	库容量 Storage (T)	日进货量 Turnover (T/24h)	制冷量 Capacity (kw)	机组参考选型 Reference Selection of Units				
				涡旋 Scroll	富士豪半封闭 Frascold		比泽尔半封闭 Bitzer	
				(BU 箱式) BU Series	BU 箱式 BU series	OU 敞式 OU series	BU 箱式 BU Series	OU 敞式 OU Series
30	4.2	0.84	2.8	BUW02M	/	/	/	/
50	7.0	1.4	4.6	BUW03M	/	/	/	/
75	10.5	2.1	6.6	BUW04M	BUB03MBFY	OUBF03MFY	BUB03MBB	OUBF03MB
100	14.0	2.8	8.6	BUW05M	BUB04MBFY	OUBF04MFY	BUB05MBB	OUBF05MB
150	20.5	4.1	12.0	BUW08M	BUB05MBFY	OUBF05MFY	BUB07MBB	OUBF07MB
200	27.5	5.5	16.0	BUW10M	BUB07MBFY	OUBF07MFY	BUB09MBB	OUBF09MB
250	34.5	6.9	19.7	BUW12M	BUB12MBFY	OUBF12MFY	BUB12MBB	OUBF12MB
300	41.5	8.3	23.6	BUW15M	BUB15MBFY	OUBF15MFY	BUB15MBB	OUBF15MB
350	48.3	9.6	27.0	BUW20M	BUB20MBFY	OUBF20MFY	BUB20MBB	OUBF20MB
400	55.0	11.0	30.6	BUW22M	BUB25MBFY	OUBF25MFY	BUB25MBB	OUBF25MB
450	62.0	12.4	34.4	BUW22M	BUB25MBFY	OUBF25MFY	BUB25MBB	OUBF25MB
500	68.8	13.8	38.0	BUW25M	BUB30MBFY	OUBF30MFY	BUB30MBB	OUBF30MB
550	75.2	15.2	41.8	BUW25M	BUB30MBFY	OUBF30MFY	BUB30MBB	OUBF30MB
600	82.5	16.5	45.3	/	/	OUBF35MFY	/	OUBF35MB
700	96.3	19.3	52.4	/	/	OUBF40MFY	/	OUBF35MB
800	110.3	22.0	59.9	/	/	OUBF40MFY	/	OUBF40MB
900	123.6	24.7	66.9	/	/	OUBF50MFY	/	OUBF50MB
1000	137.6	27.5	74.3	/	/	OUBF50MFY	/	OUBF50MB

说明:冷量计算条件:货物密度250kg/m<sup>3</sup>、进货温度<25°C、压缩机工作时间18h/天、冷库容积利用系数0.55、库板100mm聚氨酯、环境温度32°C;  
Calculating conditions of cooling capacity, goods density 250kg/m<sup>3</sup>, purchase temperature < 25 C, compressor working time 18h/day, cold storage volume utilization coefficient 0.55, Insulation board 100mm polyurethane, environment temperature 32 C

### 2、低温冷藏库(库温-18°C~-20°C) / Low temperature cold room (Temp. -18 to -20°C)

库内容积 Cold room inne volume (m <sup>3</sup> )	库容量 Storage (T)	日进货量 Turnover (T/24h)	制冷量 Capacity (kw)	机组参考选型 Reference Selection of Units				
				涡旋 Scroll	富士豪半封闭 Frascold		比泽尔半封闭 Bitzer	
				BU 箱式 BU Series	BU 箱式 BU Series	OU 敞式 OU Series	BU 箱式 BU Series	OU 敞式 OU Series
12	3.0	0.6	1.2	BUW02L	/	/	/	/
25	6.0	1.2	1.9	BUW03L	BUB02LBFY	OUBF02LFY	/	OUBF02LBY
50	12.0	2.4	3.3	BUW05L	BUB03LBFY	OUBF03LFY	BUB03LBBY	OUBF03LBY
65	16.0	3.2	4.1	BUW06L/ZSI	BUB04LBFY	OUBF04LFY	BUB04LBFY	OUBF04LBY
80	20.0	4.0	4.9	BUW07L	BUB05LBFY	OUBF05LFY	BUB05LBFY	OUBF05LBY
100	24.0	5.0	6.0	BUW06LBEY	BUB08LBFY	OUBF08LFY	BUB06LBBY	OUBF06LBY
150	36.0	7.2	8.5	BUW08LBEY	BUB10LBFY	OUBF10LFY	BUB12LBBY	OUBF12LBY
200	48.0	9.6	10.6	BUW08LBEY	BUB15LBFY/S	OUBF15LFY/S15	BUB14LBBY	OUBF14LBY
250	60.0	12.0	13.1	BUW10LBEY	BUB15LBFY/V	OUBF15LFY/V15	BUB18LBBY	OUBF18LBY
300	72.0	14.4	15.1	BUW13LBEY	BUB20LBFY	OUBF20LFY	BUB23LBBY	OUBF23LBY
350	84.0	16.8	17.5	BUW15LBEY	BUB25LBFY	OUBF25LFY	BUB28LBBY	OUBF28LBY
400	96.0	19.2	19.3	/	BUB30LBFY	OUBF30LFY	BUB28LBBY	OUBF28LBY
450	108	21.6	21.9	/	BUB30LBFY	OUBF30LFY	BUB34LBBY	OUBF34LBY
500	120.5	24.0	24.1	/	/	OUBF40LFY	BUB34LBBY	OUBF34LBY
550	132.6	26.5	26.4	/	/	OUBF40LFY	/	OUBF44LBY
600	144.0	28.8	28.5	/	/	OUBF40LFY	/	OUBF44LBY

说明:1、冷量计算条件:以肉类冻品为计算参照,货物密度按400kg/m<sup>3</sup>、进货温度<-10°C、压缩机工作时间18h/天、冷库容积利用系数0.6、库板100mm聚氨酯、环境温度32°C;  
Calculating conditions of cooling capacity: using frozen meat as reference, goods density 400kg/m<sup>3</sup>, purchase temperature < -10 C, compressor working time 18h/day, cold storage volume utilization coefficient 0.6, Insulation board 100mm polyurethane, environment temperature 32 C

### 编后说明

- 1、对于产品手册中的任何技术问题或未尽事宜可咨询于本公司技术部;
- 2、对冷凝机组,资料中所标明的配置,用户可根据实际使用情况增加或减少配置;
- 3、本公司可根据客户特殊要求设计制造各种非标制冷机组,详细要求可与技术部或销售部联系;
- 4、本公司保留对资料中的任何技术参数自行更改的权利,恕不另行通知,更不承担任何责任;

### NOTE

1. Please inquiry to our technical department if there is technical problems or other unknowns.
2. For the condensing unit, the configuration indicated in the manual can be increased or decreased according to the actual use.
3. Our company can design and manufacture all kinds of non-standard refrigeration unit according to the special requirements of customers. Detailed requirements can be contacted with the technical department or sales department.
4. We reserve the right to change any technical parameters of the data without prior notice or liability.

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