

GH180BERS5C
压缩机技术规格书
SPECIFICATION FOR COMPRESSOR

黄石东贝压缩机有限公司

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1、适用范围 Application Scope

系统类型 System Type	房间空调器/除湿机 Room air-conditioner/Dehumidifier
额定电压/频率 Rated voltage/Frequency	1 ϕ -110-120V~60Hz
制冷剂 Refrigerant	R22
最大冷媒充注量 Refrigerant charge limit	900g Max

2、压缩机规格 Compressor data

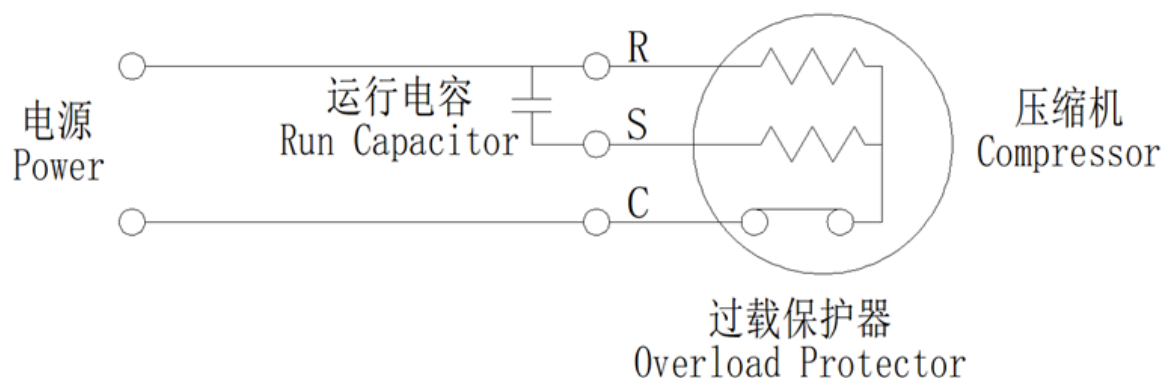
压缩机类型 Compressor type	全封闭型电动压缩机 Hermetic motor compressor
泵体类型 Pump type	旋转式 Rotary
气缸名义工作容积 Cylinder nominal volume	18.0cm ³ /rev
冷冻机油牌号 Brand of refrigerant oil	KR56 或 等同
冷冻机油充注量 Refrigerant oil charge	260ml
重量（含冷冻机油） Weight(Refrigerant oil included)	11.6 Kg
吸气管内径 Suction pipe I.D.	9.7 (-0.05, +0.05) mm
排气管内径 Discharge pipe I.D.	8.2 (-0.05, +0.05) mm

3、电机规格 Motor data

电机类型 Motor type	单相感应电机（电容运转型） Single phase Induction motor (PSC)	
极数 Pole	2	
绝缘等级 Insulation class	E	
绕组阻值（25℃） Winding resistance	主相（Main） 0.59 $\pm$ 7%	副相（Aux） 1.98 $\pm$ 7%

4、电器规格 Electrical data

电器接线图 Electrical Wiring Diagram	见下图 See Diagram
运行电容 Running Capacitor	60 μ F/250V



5、性能参数 Performance Parameter

测试工况 Testing condition	标准工况 ASHRAE condition
制冷量 Capacity	3650 $\pm$ 5%W
输入功率 Input power	1270 $\pm$ 5%W
工作电流 Working current	11.8 $\pm$ 5% A
能效比 COP	2.90 $\pm$ 5%
噪音 Noise	$\leq$ 62dB (A)
振动 (压缩机本体切向加速度) Vibration(Compressor tangential acceleration)	$\leq$ 15 m/s ²

测试工况 TESTING CONDITION:

测试工况 Testing condition	标准工况 ASHRAE condition	过负荷工况 Overload condition
测试电源 Testing power supply	115V/60Hz	/
蒸发温度 Evaporating Temp.	7.2	12
冷凝温度 Condensing Temp.	54.4	65
过冷温度 Liquid Temp.	46.1	/
吸气温度 Suction Temp.	35	25
环境温度 Ambient Temp.	35	43
风速 Air flow	1m/s	1m/s

6、一般特性 General Characteristic

电气强度 Electrical strength	符合 GB4706.1 和 GB4706.17 的要求 The electrical strength shall comply with requirements of GB4706.1 and GB4706.17
绝缘电阻 Insulation resistance	>30M Ω
接地电阻 Grounding resistance	<0.1 Ω
绝缘耐压 Insulation and voltage resistance	AC 1500V-1min
残余水分含量 Residual moisture content	≤ 150 mg
杂质含量 Impurity content	≤ 100 mg

7、容许应用范围 Limit of operating condition

项目 Project	标准工况 ASHRAE condition	过负荷工况 Overload condition
最大压缩机比 Maximum compression ratio	6.5	8
排气压力 Discharge pressure Mpa	2.18 Max (55℃)	2.71 Max (65℃)
吸气压力 Suction pressure Mpa	0.35~0.69 (-10~10)	0.29~0.79 (-15~15)
排气温度 Discharging Temp.	105℃ Max	115℃ Max
绕组温度 Winding Temp.	115℃ Max	130℃ Max

8、注意事项 Cautions

(1) 禁止使用规定之外的制冷剂。当制冷剂超出规定值时，应同我司联系。

Do not use refrigerants other than those specified. When the refrigerants exceeds the specified value, please contact us.

(2) 制冷剂应从制冷系统冷凝器的尾端注入，而不能直接注入压缩机。

Refrigerant should be injected from the end of the condenser in the refrigeration system rather than directly into the compressor.

(3) 压缩机橡胶塞拔除后，应尽快使用，不得在空气中持续打开 5 分钟以上。

Please assemble the compressor in your Air Conditioner rapidly after removing the plugs. Don't place the compressor in air for a long time. Don't place the compressor in air for more than five minutes.

(4) 压缩机内部已封入干燥氮气，使用时应先拔掉排气管橡胶塞。

The compressor has been sealed with dry nitrogen, and the exhaust pipe rubber plug should be pulled out before use.

(5) 请不要裸手触摸运行中或刚停机的高温压缩机，当心烫伤。

Do not touch the compressor with bare hands during operation or immediately after stoppage. The compressor is at a high temperature. There is the danger of burns.

(6) 压缩机不得自身抽真空及空运转。在充注制冷剂前应当将系统真空度抽至小于 20Pa。

The compressor shall not vacuum itself and run without air. The system should be vacuumed to less than 20Pa before refrigerant filling.

(7) 压缩机启动运行前应确保接线正确。压缩机通电后至少要连续运行 5 分钟，关机后至少停 3 分钟再次启动。绝对禁止压缩机反向运转和在空气中运行。

Make sure the connection is correct before starting the compressor. The compress should run continuously for at least 5 minutes after power on, and stop for at least 3 minutes after power off. Compressor running in reverse and in air is absolutely prohibited.

(8) 维修保养设备时必须佩戴防护眼镜。拆卸配管时，当心制冷剂和油的溅出。

Wear safety goggles when servicing the unit. Beware of spillage of refrigerant and oil when removing piping.

(9) 压缩机应当竖直放置，正常运行时应在倾斜 5° 范围内。禁止横放和倒置，跌落的压缩机禁止使用。

The compressor should be placed vertically, The compressor will operate properly with tilting angle below 5°. Do not put the compressor

horizontally or put it upside down. Do not let the compressor fall off.

(10) 压缩机启动时，吸气压力应与排气压力相平衡。

The suction pressure shall be balanced with discharge pressure when compressor starts.

(11) 压缩机正常运转时，储液器温度应高于蒸发器出口温度，壳体底部温度高于冷凝器中部温度 5℃ 以上。

When the compressor is in normal operation, the temperature of the liquid reservoir should be higher than the outlet temperature of the evaporator, and the temperature at the bottom of the shell should be more than 5℃ higher than the temperature in the middle of the condenser.

(12) 压缩机不得露天存放，必须存放在 -10℃ ~ +65℃ 的室内。

Do not put the compressor in the open air, put the compressor indoor where the temperature range is between -10℃ ~ +65℃.

9、交货清单 The Delivery List

序号 No.	名称 Parts Name	规格 Specification	数量 Pieces	备注 Remarks
1	压缩机 Compressor	GH180BERS5C	1 台	
2	运行电容 Running Capacitor	60μF/250V	1 个	客户自配 Customer-supplied
3	接线盒 Junction box	RGH160U.6.1-01A	1 个	
4	接线盒垫片 Gasket of Junction box	RQH080U.6.1-02A	1 个	
5	机脚橡胶圈 Rubber mount	RGH240K.6.1-03	3 个	
6	接线盒螺母 Junction box nut	RQH080U.6.1-04	1 个	

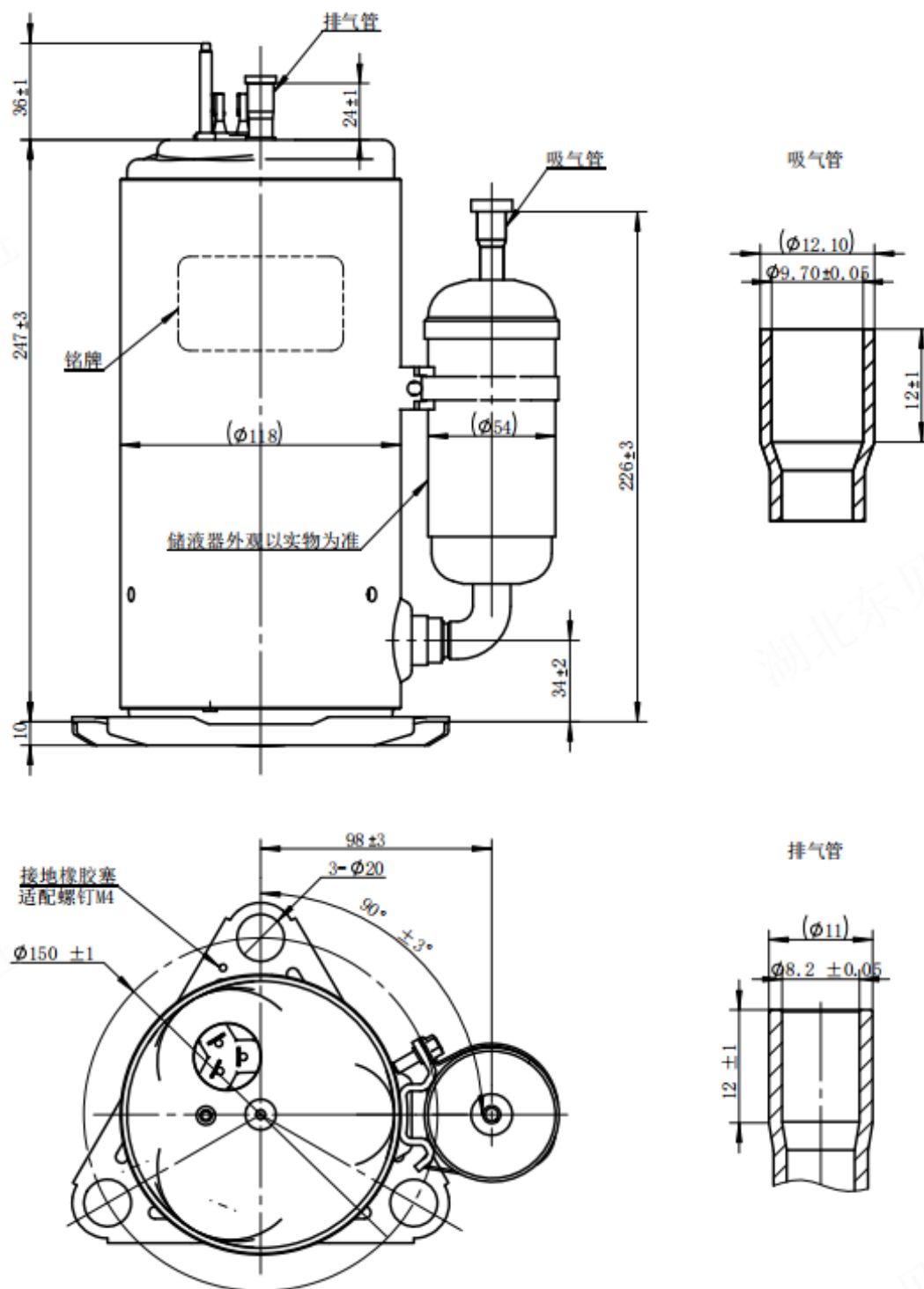
注：所有电器组件和安装部件是单独包装的，并不是直接安在压缩机上；

Attention: All electrical components and mounting parts are individually packaged and are not mounted directly on the compressor.

10、外形图 Outside Drawing

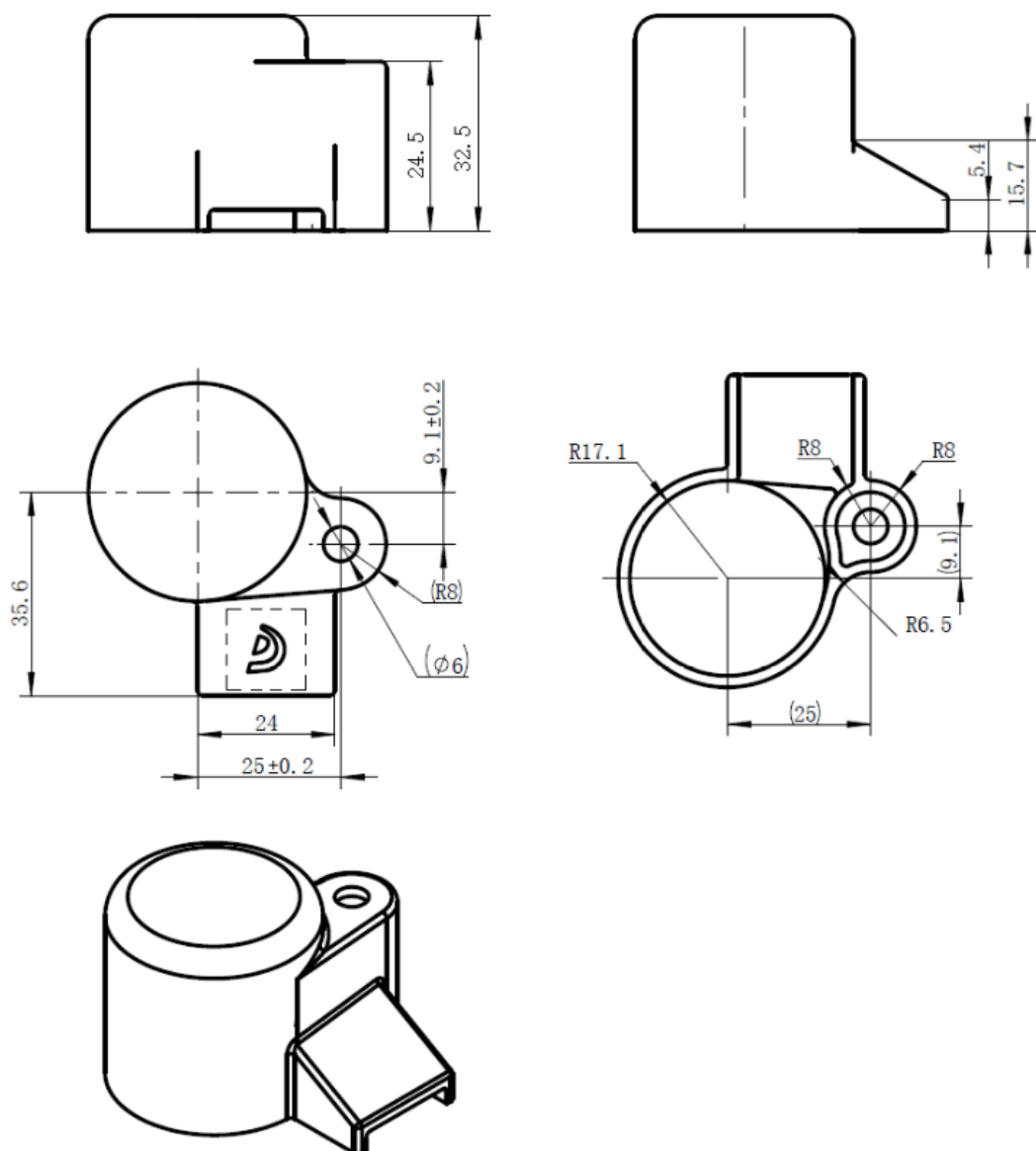
压缩机外形图:

Compressor contour drawing



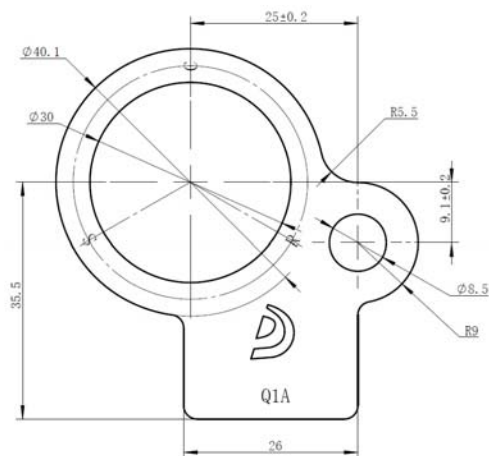
接线盒外形图:

Junction box contour drawing



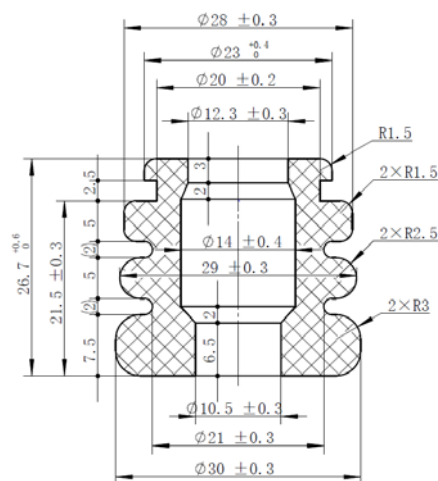
接线盒垫片外形图:

Gasket of Junction box contour drawing



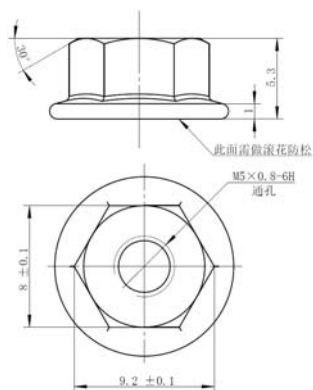
机脚橡胶圈外形图:

Rubber mount contour drawing



螺母外形图

Nut contour drawing



11、修订记录 Edit History

序号 NO.	日期 Date	页码 Page number	修订理由 Revision Reason	客户承认日期 Conclusion Date
A				
B				
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