万胜压缩机技术规范

(WANSHENG COMPRESSOR TECHNICAL SEPECIFICATION)

QM50U (WX)

（220-240V~50Hz）

杭州钱江制冷压缩机集团有限公司

Hangzhou Qianjiang Refrigeration Compressor Group Co.,Ltd

1.Operation:运行条件

适用工况 Application	LBP
制冷剂 Refrigerant	R290
节流装置 Expansion device	Capillary tube 毛细管
冷却方式 Cooling	Static
蒸发温度范围 Evaporating Temperature Range	-35 to -15°C
最高环境温度 Max Ambient Temperature	43°C
最高排气温度 Max Operating Discharge Temperature	110°C
最高冷凝温度 Max Operating Condensing Temperature:	65°C
最高绕组温升 Max Winding Temperature	120°C
最大杂质含量 Max Impurities	80 mg
最大含水量 Max Humidity	100 mg

2. 性能数据CALORIMETER DATA

技术参数 Technical Parameter				
电压/频率 (V/Hz) Voltage /Frequency	制冷量（W） Cooling capacity ≧95%	输入功率（W） Input Power ≤115%	工作电流 （A） Current ≤110%	COP (W/W) ≧95%
220V~50Hz	280	200	1.36	1.4

测试工况 Test conditions according to ASHRAE:

冷凝温度:Condensing temperature +54.4°C　　吸气温度: +Suction temperature +32°C

过冷温度:Subcooling temperature +32.2°C　　环境温度:Room temperature +32°C

蒸发温度: Evaporating temperature -23.3°C

3.噪声振动数据 Noise test

噪声值 Noise (dB)	50
振动 Vibration (m/s^2)	1.8

4 启动特性 Starting ability

平衡压力 Balance Pressure (MPa abs)	0.28
最低启动电压 Min starting Voltage（V）	187

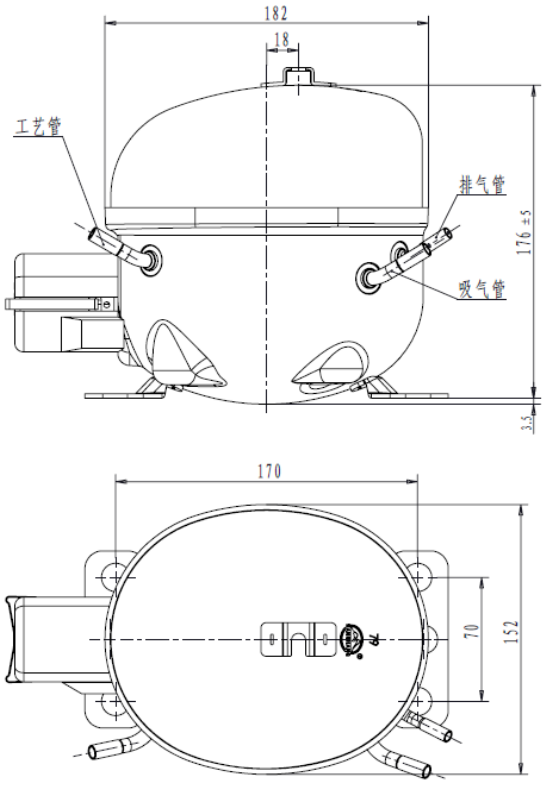
5.机械特性 MECHNICAL

容积 Displacement	5.0 cc
高度 (H)Height	176 mm
加油量 Oil charge	160ml
油类型 Oil Type	酯类油Lipid Oil
吸、排、工艺管材质 Material of suction tube, process tube and discharge tube	copper Tube 铜管
吸气管内径Diameter of suction tube (I.D.)	$\Phi 6.2^{+0.1}_{0}$ mm
排气管内径 Diameter of discharge tube(I.D.)	$\Phi 4.9^{+0.1}_{0}$ mm
工艺管内径 Diameter of process tube (I.D.)	$\Phi 6.2^{+0.1}_{0}$ mm

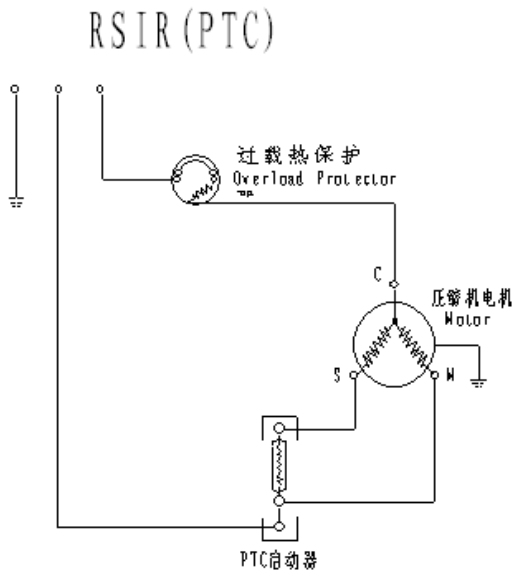
6. 电机信息 Motor

电源 Power supply:	220-240 V
电压范围 Voltage limits:	187 - 254V
频率 Frequency:	50 Hz
相数 Phase:	1
电机类型 Motor Type:	RSIR

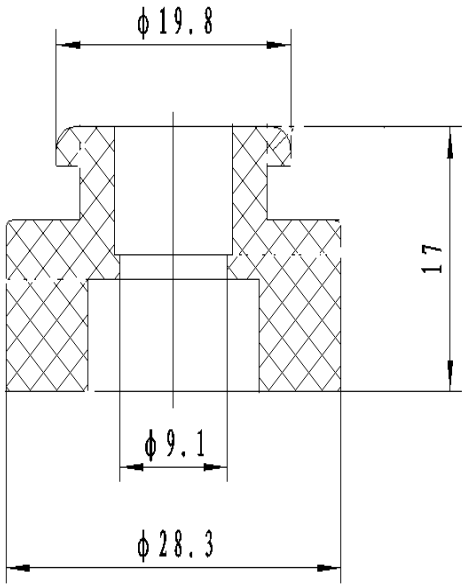
7.外型图 Outline



8.接线图Wiring Diagram



9.压缩机胶座 Rubber Gasket



10.发货状态 Delivery State

No.	Name	Model	Quantity	CODE
1.	压缩机 Compressor	QM50U	1pcs	
2.	安装附件 MOUNTING ACCESSORIES			
2.1.	胶座 Rubber Gasket		4 pcs	
2.2	寸管 Sleeves		4 pcs	
3.	电器附件 ELECTRICAL ACCESSORIES			
3.1.	启动器 Starting Relay		1 pcs	
3.2	热保护器 Thermal Protector		1 pcs	
3.3	罩壳 Plastic cover		1 pcs	
3.4	罩壳卡子 Cover strap		1 pcs	
3.5	接地螺钉 Earthing screw	M4×6	1 pcs	

Notes: 1.All electrical parts and equipment assembly are not installed on the compressor.
所有电器附件及配件没有直接安装在压缩机上。
2. All electrical parts and equipment assembly according to Delivery states are all provided by our company 所有电器附件及配件根据交付协议由我们公司提供

11.包装、储存、运输Package、Storage and Transportation

包装类型 Package type	Unreusable
数量 Quantity	120pcs/pallet
储存 Storage	最大 2 层 Max. 2 layers
主要部件 Main components	木托、泡沫隔板、塑料板、紙盖板、包裹 Wooden supporter、foam divider、plastic sheet、cardboard cover、wrapping
转运 Movement	保持压缩机处于正常或垂直位置（压缩机安装到冰箱之前一段时间）Keep the compressor in normal or vertical position (a short time before compressor installed in the refrigerator).
运输及测试要求 Trans. test requirement	不允许压缩机损坏、性能降低。No allowable compressor's damage and performance loss.

12.通用技术要求 General requirements

1. 拔掉压缩机橡胶塞5分钟内，把压缩机接入系统，建议首先拔出工艺管橡胶塞，以免空气中的灰尘及水汽进入压缩机。
   After pulling off rubber plugs from the compressor tubes, please connect the compressor to the refrigeration system within 5 minutes. It is advisable to take off the first plug from process tube. No dust or humidity in the air is permitted to enter the compressor.
2. 接地线应该固定牢固、可靠。
   Earth connection should be fixed permanently and reliably.
3. 压缩机必须水平安装，倾斜角度不超过 5°
   The compressor must be mounted horizontally without tilting an angle more than 5°
4. 最大运行环境温度 43℃
   Maximum operating ambient temperature is at 43℃.
5. 当压缩机开始启动前，系统平衡压力必须小于 0.5Mpa（绝对压力）
   When the compressor starts, balance pressure inside refrigeration system must be less than 0.5Mpa (Absolute).
6. 压缩机两次启动间隔时间最少 5 分钟。
   The compressor must not be restarted unless at an interval of more than 5 minutes.
7. 在运输过程中，请始终保持压缩机垂直，切勿打翻压缩机，避免振动和冲击
   Please keep the compressor always vertically and never upset it during transportation while avoiding any vibration and shock.
8. 请将压缩机存放在干燥、通风的地方，避免受潮
   Please store the compressor in a dry and ventilated place and keep it away from any humidity.
9. 请按照包装上的运输警示标志进行层位限制，装载或卸载时，不要滚动整个包装。
   Please follow the transportation warning marks on the package for layer limitation. Do not roll the whole packages when loading or unloading.
10. 储存期限为生产之日起 6 个月。如果过期，请检查压缩机内氮气压力，必要时重新加注。
    Storage expiry is 6 months from the date of production. If it expired, please check the nitrogen pressure inside compressor and recharge it when it is necessary.