

HERMETIC REFRIGERATION COMPRESSOR

COMPRESSOR MODEL : GQR21K

V01 版

压缩机特性规格书

PERFORMANCE FOR COMPRESSOR

机型 (MODEL): GQR21K

1PH, 50/60Hz, 220-240V

1、适用范围 (APPLICATION)

蒸发温度范围 (EVAPORATING TEMP RANGE)	-35 ~ -5℃
环境温度 (Ambient Temp.)	0~43℃
最高冷凝温度 (Max. Condensing Temp.)	65℃
冷却方式 (COOLING TYPE)	风扇冷却 (FAN)
制冷控制 (REFRIGERATION CONTROL)	毛细管 (CAPILLARY)
认证种类 (APPROVAL)	
电压范围 (VOLTAGE RANGE)	220~240V
冷媒 (REFRIGERANT)	R404A

2、额定性能及测试条件 (RATED PERFORMANCE AND TEST CONDITIONS)

制冷能力 (COOLING CAPACITY)	1000(W)	1180(W)
输入功率 (INPUT POWER)	833(W)	915(W)
额定电流 (RATED CURRENT)	5.40(A)	4.25(A)
能效比 (EFFICIENCY) COP	1.20(W/W)	1.28(W/W)
测试工况 (ASHRAE TEST CONDITION)	低背压 (LBP)	低背压 (LBP)
测试电源 (TEST POWER SOURCE)	220-240V~50Hz 1PH	220-240V~60Hz 1PH
蒸发温度 (EVAPORATING TEMP)	-23.3℃	-23.3℃
冷凝温度 (CONDENSING TEMP)	54.4℃	54.4℃
吸气温度 (SUNCTION TEMP)	32.2℃	32.2℃
过冷温度 (SUBCOOLING TEMP)	32.2℃	32.2℃
环境温度 (AMBIENT TEMP)	32.2℃	32.2℃

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3、主要构造项目 (MAIN STRUCTURE)

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)	往复式 (RECIPROCATING TYPE)
气缸容积 (DISPLACEMENT)	21.2cm ³
冷冻机油类型(OIL TYPE)	酯类油 ISO32
冷冻机油充注量(OIL CHARGE)	450±10ml
涂装(PAINTING)	黑色涂装, 烘烤干燥 (BLACK PAINT, BAKED)
净重(NET WEIGHT)	19.6±0.4kg
吸气管内径(ID OF SUCTION TUBE)	Ø9.6±0.1mm
排气管内径(ID OF DISCHARGE TUBE)	Ø6.2±0.1mm
工艺管内径(ID OF PROCESS TUBE)	Ø9.6±0.1mm
残余杂质 (RESIDUAL IMPURITIES)	≤80mg
残余水分 (RESIDUAL MOISTURE)	≤130mg

4、电机 (MOTOR)

启动方式 (STARTING TYPE)	CSR(电压式)
电压范围 (VOLTAGE RANGE)	187~254V
绝缘等级 (INSULATION GRADE)	B GRADE
电机最高绕组温度 (Max. Winding Temp.)	≤130℃
最高壳体温度 (Max. Shell Temp.)	≤110℃
最高排气温度 (Max. Discharge Temp.)	≤130℃
堵转电流 (LOCKED ROTOR CURRENT)	30.0A
启动电压 (Start Voltage) gage pressure @25℃ AT	≤170V/60Hz[0.90/0.90MPa] ≤160V/50Hz[0.90/0.90MPa]

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5、电器元件 (ELECTRICAL COMPONENTS)

热保护 (THERMAL PROTECTOR)	
型号 (TYPE)	T1130/B265-120
厂家 (Supplier)	ELSING /Star Shuaier
动作温度 (Open Temp.)	120±5℃
复位温度 (Close Temp.)	61±9℃
感动电流 (U.T.C) @90℃	6.7A min / 6.4+35% A
动作电流 (Max.T.C Amp.(25℃)	26.5A
动作时间 (TRIP TIME)	6~16sec
启动器 (STARTING RELAY)	
型号 (TYPE)	RVA4I3C
厂家 (Supplier)	ELSING
最大吸合电压 (Max pull-in voltage) V	204~233
最小释放电压 (Min release voltage) V	60~135
电阻 (RESISTANCE)	/
复位时间 (RESET TIME)	/
运行电容 (RUNNING CAPACITOR)	
型号 (TYPE)	CBB65
电容值 (CAPACITY VALUE) 25℃	25μF 450VAC
启动电容 (STARTING CAPACITOR)	
型号 (TYPE)	CBB65
电容值 (CAPACITY VALUE) 25℃	100μF 330VAC

压缩机规格书及附件清单

LIST OF COMPRESSOR & ACCESSORIES

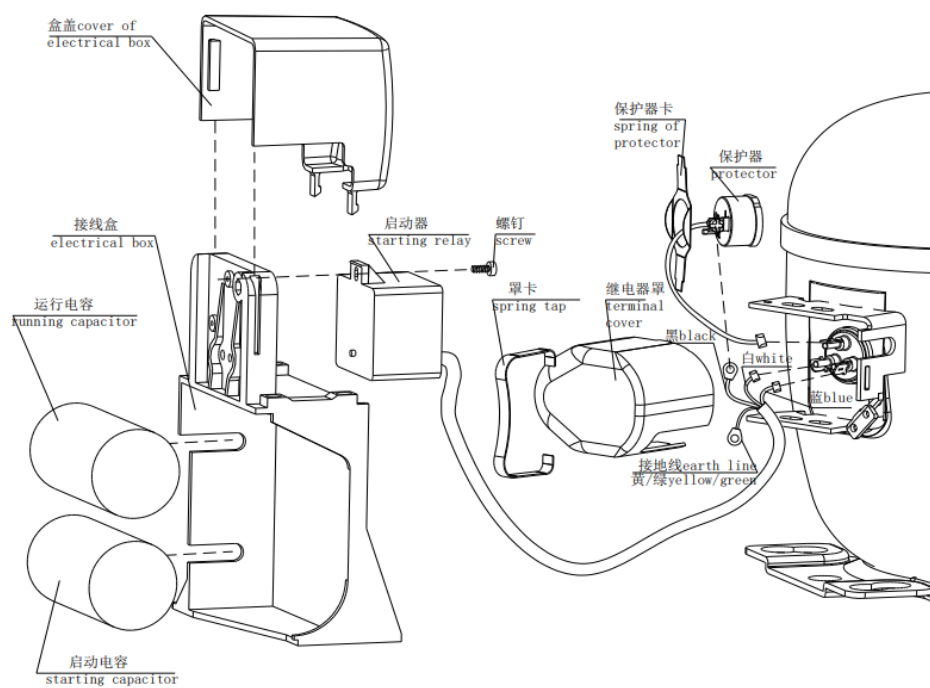
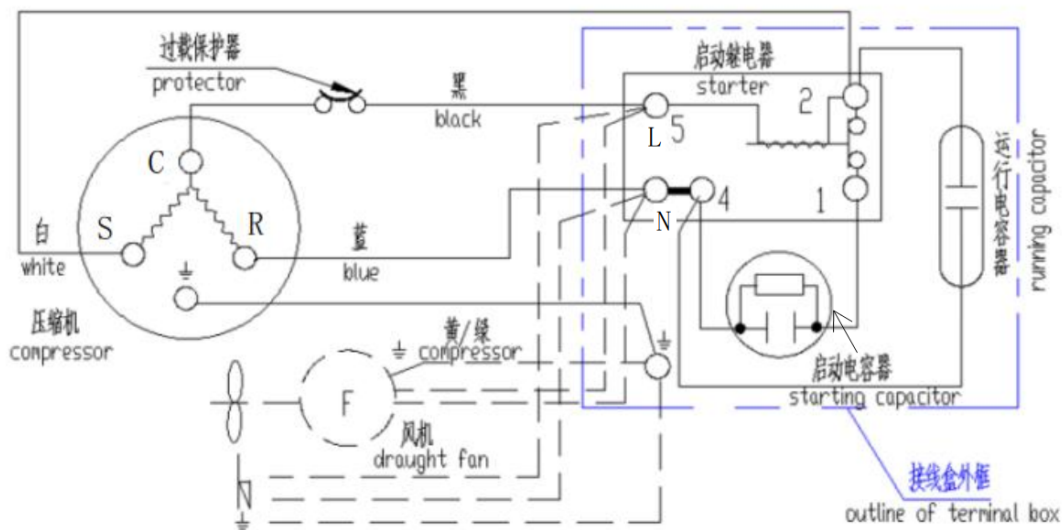
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6、附件清单 (ACCESSORIES LIST)

名称 (NAME)	规格(DESCRIPTION)	数量 (QTY)
保护器 (PROTECTOR)	T1130 or B265-120	1
启动器 (STARTING RELAY)	RVA4I3C	1
启动电容 (STARTING CAPACITOR)	CBB65 100 μ F	1
运行电容 (STARTING CAPACITOR)	CBB65 25 μ F	1
保护器卡 (Spring of Protector)		1
继电器罩 (Terminal Cover)		1
罩卡 (Spring Tap)		1
电器接线盒 (Electrical Box)		1
电器盒盖 (Cover of electrical box)		1
线束组件 (Electrical Wire)		1
机脚橡胶座 (Rubber Grommet)		4
衬管 (Sleeve)		4
地脚螺栓组件 (Anchor Bolt Assembly and Nut)	M6x30	4
接地螺钉组件 (Earth Screw)	M4	1

7、接线方式 (ELECTRICAL WIRING DIAGRAM)

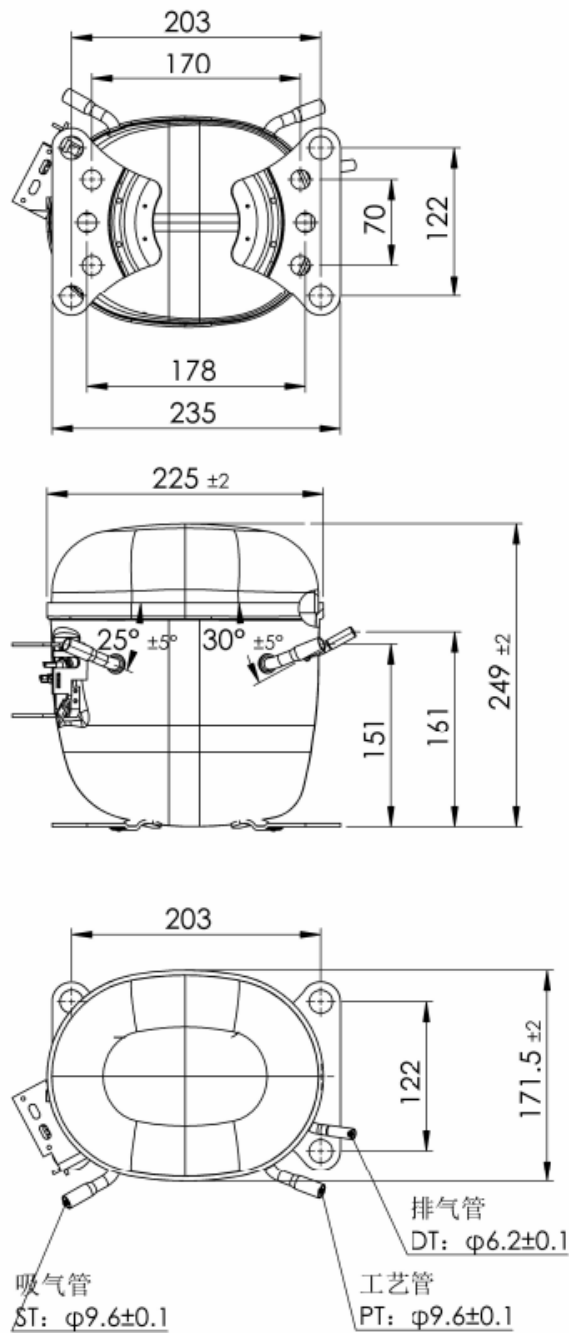


压缩机外形尺寸图 DIMENSIONS FOR COMPRESSOR

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8、压缩机外形图 (DIMENSIONS FOR COMPRESSOR):



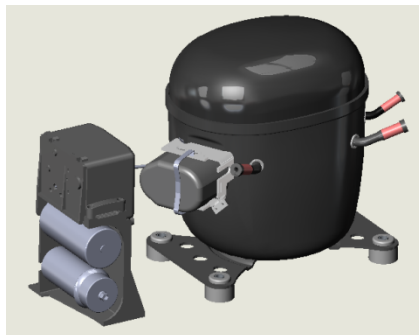
压缩机高度 Height value of compressor: $H=249 \pm 2\text{mm}$.

压缩机安装示意图

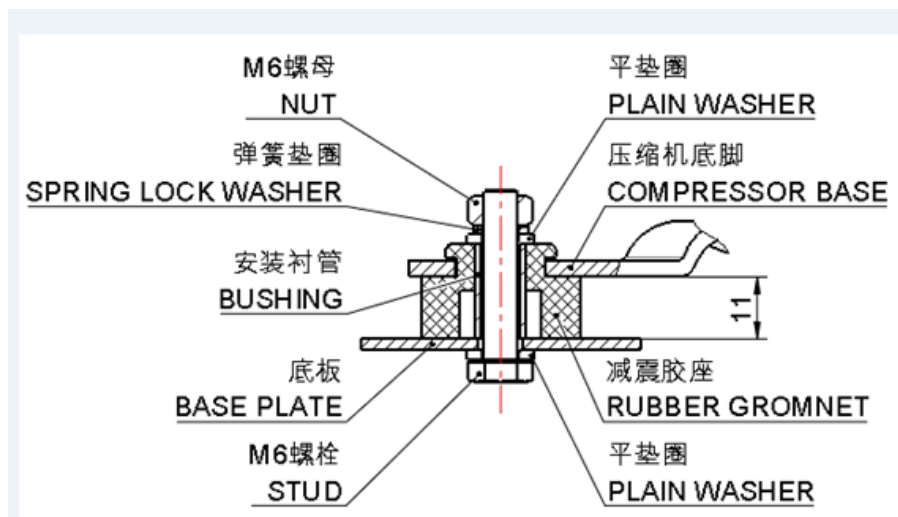
MOUNTING DIAGRAM FOR COMPRESSOR

机型 (MODEL): GQR21K

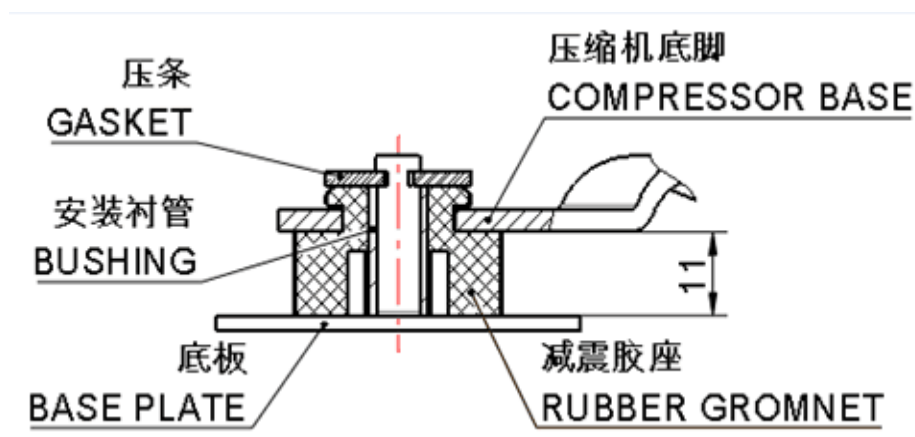
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9、安装图 (MOUNTING DIAGRAM FOR COMPRESSOR)



安装方式 (MOUNTING TYPE) :(1)



安装方式 (MOUNTING TYPE) :(2)

压缩机装运条件

TRANSPORTATION FOR COMPRESSOR

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10、包装、贮存和运输 (TRANSPORTATION FOR COMPRESSOR)

包装类型(Packing type)	一次性 (不返用) (Disposable)
运输(Transport)	火车或汽车(Train, bus, vessel)
数量 (Quantity)	45pcs/box
堆码层数(Stacking layers)	最多两层(not more than two layers)
型号(Model)	GQR21K
搬运(Moving)	保持压缩机正常和垂直状态(Keep the compressor normal and vertical status)