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Project Report

Project Details: sabacool.ir
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Author Name:

Refrigerant	R22
High Side Properties:	
Condensing Temperature, °C	50.00
Condensing Abs. Pressure, bar	19.42
Dew Point, °C	50.00
Bubble Point, °C	50.00
Saturated vapour enthalpy, kJ/kg	718.24
Specific volume of saturated vapour, dm ³ /kg	11.71
Liquid Temperature, °C	50.00
Liquid enthalpy, kJ/kg	563.07
Low Side Properties:	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	4.97
Dew Point, °C	0.00
Bubble Point, °C	0.00
With vapour at, °C	20.00
Specific volume, dm ³ /kg	52.08
Enthalpy, kJ/kg	719.99
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	50.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	KM-7X

**PERFORMANCE AT SPECIFIED OPERATING POINT
KM-7X Data at 60Hz**

Cooling Capacity, kW	2.90
Power, kW	1.19
COP	2.43
Current at 380 V, A	2.29
Mass Flow, g/s	18.45
Heat Rejection, kW	3.60
Isentropic Eff., %	58.93

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 60 Hz, m ³ /h	4.79
Bore/Stroke, mm	34.9/23.8
Length/Width, mm	365/235
Height, mm	280
Net Weight, kg	39
Gross Weight, kg	41
Suction, inch	1/2
Discharge, inch	1/2
Oil Quantity, l	0.65
Frequency Range, Hz	25 - 60
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	208 x 162 (11.0)
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	1810
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 60 Hz)

Maximum Operating Current, A	2.9
Locked Rotor Current, A	16.7
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
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ACCESSORIES OPTIONAL

Additional Cooling
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Additional Cooling
Crankcase Heater
Adapter Kit
Oil Control System
Inverter

1 or 2 ways water Coil
25 W Horizontal Air Flow Fan
7 W Vertical Air Flow Fan
27 W Internal
For Parallel Operation
ALCO Trax-Oil OM3
Emerson Industrial Automation,
Unidrive M200 02 400 032

DK with oil pump

