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Project Report

Project Details: sabacool.ir
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Author Name:

Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	50.00
Condensing Abs. Pressure, bar	22.98
Dew Point, °C	50.00
Bubble Point, °C	49.70
Saturated vapour enthalpy, kJ/kg	381.56
Specific volume of saturated vapour, dm ³ /kg	7.29
Liquid Temperature, °C	49.70
Liquid enthalpy, kJ/kg	276.83
Low Side Properties:	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	6.04
Dew Point, °C	0.00
Bubble Point, °C	0.54-
With vapour at, °C	20.00
Specific volume, dm ³ /kg	36.66
Enthalpy, kJ/kg	384.92
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	50.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	DKM-7X

**PERFORMANCE AT SPECIFIED OPERATING POINT
DKM-7X Data at 50Hz**

Cooling Capacity, kW	2.47
Power, kW	1.13
COP	2.18
Current at 400 V, A	2.10
Mass Flow, g/s	22.90
Heat Rejection, kW	3.15
Isentropic Eff., %	59.93

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 50 Hz, m ³ /h	3.97
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)
Sound Pressure @ 1m, dBA	45
Sound Power, dBA	56
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	2.4
Locked Rotor Current, A	12.2
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
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ACCESSORIES OPTIONAL

Additional Cooling	1 or 2 ways water Coil
Additional Cooling	25 W Horizontal Air Flow Fan
Additional Cooling	7 W Vertical Air Flow Fan
Crankcase Heater	27 W Internal
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M200 02 400 032

DK with oil pump

