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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	LE-20X

**PERFORMANCE AT SPECIFIED OPERATING POINT
LE-20X Data at 60Hz**

Cooling Capacity, kW	7.33
Power, kW	3.14
COP	2.33
Current at 380 V, A	5.99
Mass Flow, g/s	67.90
Heat Rejection, kW	9.35
Isentropic Eff., %	64.07

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	2
Displacement @ 60 Hz, m ³ /h	11.9
Bore/Stroke, mm	44.5/36.5
Length/Width, mm	470/330
Height, mm	385
Net Weight, kg	78
Gross Weight, kg	84
Suction, inch	7/8
Discharge, inch	5/8
Oil Quantity, l	2
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	295 x 279 (14.0)
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~ / 60 Hz)

Maximum Operating Current, A	6.8
Locked Rotor Current, A	48.5
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
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ACCESSORIES OPTIONAL

Additional Cooling
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Crankcase Heater
Adapter Kit
Oil Control System
Inverter

1 or 2 ways water Coil
70 W Vertical Air Flow Fan
25 W Horizontal Air Flow Fan
70 W Internal
For Parallel Operation
ALCO Trax-Oil OM3
Emerson Industrial Automation,
Unidrive M200 03 400 073

DL with pump

