



# Select 8

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## Project Report

Project Details: sabacool.ir  
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Author Name:

Refrigerant	R404A Dew Point
<b>High Side Properties:</b>	
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 <sup>3</sup> /kg	7.29
Liquid Temperature, °C	49.70
Liquid enthalpy, kJ/kg	276.83
<b>Low Side Properties:</b>	
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 <sup>3</sup> /kg	36.66
Enthalpy, kJ/kg	384.92
<b>Operating Conditions:</b>	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	50.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	KJ-10X

**PERFORMANCE AT SPECIFIED OPERATING POINT  
KJ-10X Data at 60Hz**

Cooling Capacity, kW	3.90
Power, kW	1.86
COP	2.09
Current at 380 V, A	3.38
Mass Flow, g/s	36.10
Heat Rejection, kW	4.98
Isentropic Eff., %	57.50

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 60 Hz, m <sup>3</sup> /h	6.19
Bore/Stroke, mm	39.7/23.8
Length/Width, mm	365/235
Height, mm	280
Net Weight, kg	39
Gross Weight, kg	41
Suction, inch	5/8
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	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	3.8
Locked Rotor Current, A	23.3
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  
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 02 400 041

DK with oil pump

