



# Select 8

**Copeland**<sup>™</sup>  
brand products



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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	D2SA-45X

**PERFORMANCE AT SPECIFIED OPERATING POINT  
D2SA-45X Data at 60Hz**

Error Evap. pressure out of range

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 60 Hz, m <sup>3</sup> /h	27
Bore/Stroke, mm	61.9/42.8
Length/Width, mm	560/330
Height, mm	395
Net Weight, kg	90
Gross Weight, kg	95
Suction, inch	1 1/8
Discharge, inch	7/8
Oil Quantity, l	2.4
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	13.7
Locked Rotor Current, A	76.1
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

**ACCESSORIES OPTIONAL**

Additional Cooling	70 W Vertical Air Flow Fan
Crankcase Heater	70 W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Inverter	Emerson Industrial Automation, Unidrive M200 05 400 270

