



# 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	D4SF-100X

**PERFORMANCE AT SPECIFIED OPERATING POINT  
D4SF-100X Data at 60Hz**

Error	Evap. pressure out of range
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**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 60 Hz, m <sup>3</sup> /h	67.6
Bore/Stroke, mm	63.5/50.8
Length/Width, mm	680/485
Height, mm	495
Net Weight, kg	178
Gross Weight, kg	194
Rotalock Discharge, inch	1 1/8
Suction, inch	1 5/8
Oil Quantity, l	3.3
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	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	74
Sound Pressure @ 1m (MT), dBA	72
Sound Power (LT), dBA	85
Sound Power (MT), dBA	83
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	24.8
Locked Rotor Current, A	120
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
Capacity Control	Capacity Steps 50%
Crankcase Heater	100 W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M200 06 400 420

D4SF, D4SL

