



# Select 8

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**Project Report**

Project Details: sabacool.ir  
 Contact: 09128869515-Sarma Tajhiz Saba  
 Alborz Industrial City, Qazvin, Iran

Author Name:

Refrigerant	R22
<b>High Side Properties:</b>	
Condensing Temperature, °C	50.00
Condensing Abs. Pressure, bar	19.42
Dew Point, °C	50.00
Bubble Point, °C	50.00
Saturated vapour enthalpy, kJ/kg	718.24
Specific volume of saturated vapour, dm <sup>3</sup> /kg	11.71
Liquid Temperature, °C	50.00
Liquid enthalpy, kJ/kg	563.07
<b>Low Side Properties:</b>	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	4.97
Dew Point, °C	0.00
Bubble Point, °C	0.00
With vapour at, °C	20.00
Specific volume, dm <sup>3</sup> /kg	52.08
Enthalpy, kJ/kg	719.99
<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	D3SS-1500

**PERFORMANCE AT SPECIFIED OPERATING POINT  
D3SS-1500 Data at 60Hz**

Cooling Capacity, kW	39.50
Power, kW	15.95
COP	2.47
Current at 380 V, A	27.82
Mass Flow, g/s	252.00
Heat Rejection, kW	54.70
Isentropic Eff., %	59.92

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	3
Displacement @ 60 Hz, m <sup>3</sup> /h	60.2
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Suction, inch	1 5/8
Discharge, inch	1 1/8
Oil Quantity, l	3.7
Frequency Range, Hz	25 - 60
Oil type (original charge)	Suniso 3GS
Oil type (approved oils)	Suniso 3GS, TEXACO Capella WF 32, FUCHS Reniso KM
Base mounting (hole dia), mm	381 x 305 (18.0)
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	37.3
Locked Rotor Current, A	152
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
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

D3DS 150X, D3DS 1500

