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Project Report

Project Details: sabacool.ir
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Author Name:

Refrigerant	R22
High Side Properties:	
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 ³ /kg	11.71
Liquid Temperature, °C	50.00
Liquid enthalpy, kJ/kg	563.07
Low Side Properties:	
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 ³ /kg	52.08
Enthalpy, kJ/kg	719.99
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	50.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	D4SH-2500

**PERFORMANCE AT SPECIFIED OPERATING POINT
D4SH-2500 Data at 50Hz**

Cooling Capacity, kW	49.20
Power, kW	17.55
COP	2.80
Current at 400 V, A	30.84
Mass Flow, g/s	314.00
Heat Rejection, kW	65.90
Isentropic Eff., %	67.83

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, m ³ /h	70.8
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	670/490
Height, mm	495
Net Weight, kg	194
Gross Weight, kg	210
Suction, inch	2 1/8
Discharge, inch	1 1/8
Oil Quantity, l	3.3
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)
Sound Pressure @ 1m (MT), dBA	71
Sound Pressure @ 1m (HT), dBA	71
Sound Power (MT), dBA	82
Sound Power (HT), dBA	82
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~ / 50 Hz)

Maximum Operating Current, A	42.4
Locked Rotor Current, A	199
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch
Mounting Springs

OPS2 Sensor
4

ACCESSORIES OPTIONAL

Additional Cooling
Capacity Control
Crankcase Heater
Discharge Temperature Protection
Enclosure Class
Oil Pressure Switch
Unloaded start
Deep Oil Sump
Adapter Kit
Check Valve
Oil Control System

70 W Vertical Air Flow Fan
Capacity Steps 50%
100 W Internal
Head PTC sensor
IP 56
OPS2 Electronic Switch
Available
Mounted
For Parallel Operation
For unloaded start operation
ALCO Trax-Oil OM3

D4SH

