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Project Report

Project Details: Sabacool.ir
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Refrigerant	R22
High Side Properties:	
Condensing Temperature, °C	50.00
Abs. Condensing Pressure, bar	19.42
Dew Point, °C	50.00
Bubble Point, °C	50.00
Saturated vapour enthalpy, kJ/kg	718.00
Specific volume of saturated vapour, dm ³ /kg	11.70
Liquid Temperature, °C	50.00
Liquid enthalpy, kJ/kg	563.00
Low Side Properties:	
Evaporating Temperature, °C	20.00-
Evaporating Abs. Pressure, bar	2.45
Dew Point, °C	20.00-
Bubble Point, °C	20.00-
With vapour at, °C	10.00-
Specific volume, dm ³ /kg	97.50
Enthalpy, kJ/kg	704.00
Operating Conditions:	
Evaporating Temperature, °C	20.00-
Condensing Temperature, °C	50.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	D6TH-2000 SUB

**PERFORMANCE AT SPECIFIED OPERATING POINT
D6TH-2000 SUB Data at 50 Hz**

Cooling Capacity, kW	32.70
Power, kW	19.40
COP	1.69
Current at 400 V, A	33.38
Suction Mass Flow, g/s	182.00
Heating Capacity, kW	51.20
Isentropic Eff., %	58.76
Economiser Load, kW	7.04
Intermediate Dew Temperature, °C	15.30
Liquid Temperature LO, °C	20.30

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	70.8
Bore/Stroke, mm	68.2/55.5
Length/Width, mm	755/585
Height, mm	575
Net Weight, kg	227
Gross Weight, kg	257
Suction, inch	1 5/8
Discharge, inch	1 3/8
Oil Quantity, l	3.3
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)
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	1810
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	36.3
Locked Rotor Current, A	173
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch
Mounting Springs
Liquid Subcooler

OPS2 Sensor
4
Plate Heat Exchanger

ACCESSORIES OPTIONAL

Enclosure Class
Oil Pressure Switch
Deep Oil Sump
Adapter Kit
Oil Control System

IP 56
OPS2 Electronic Switch
Mounted
For Parallel Operation
ALCO Trax-Oil OM3

D6TA, D6TH

