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Project Report

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

Author Name: Sarma Tajhiz Saba (Sabacool)

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	6TK-3000 SUB

**PERFORMANCE AT SPECIFIED OPERATING POINT
6TK-3000 SUB Data at 50 Hz**

Cooling Capacity, kW	47.30
Power, kW	27.00
COP	1.75
Current at 400 V, A	49.12
Suction Mass Flow, g/s	263.00
Heating Capacity, kW	73.00
Isentropic Eff., %	60.92
Economiser Load, kW	10.15
Intermediate Dew Temperature, °C	15.40
Liquid Temperature LO, °C	20.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, m ³ /h	101
Bore/Stroke, mm	80.6/57.0
Length/Width, mm	962/612
Height, mm	619
Net Weight, kg	268
Gross Weight, kg	300
Rotalock Suction, inch	1 5/8
Rotalock Discharge, inch	1 3/8
Oil Quantity, l	6.8
Oil type (original charge)	Suniso 3GS
Oil type (approved oils)	Suniso 3GS
Base mounting (hole dia), mm	381 x 305 (25.5)
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	54.5
Locked Rotor Current, A	304
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Springs	4
Deep Oil Sump	Mounted

ACCESSORIES OPTIONAL

Crankcase Heater	100 W Internal
Crankcase Heater	200 W Internal