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Project Report

Project Details: Sabacool.ir
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Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	50.00
Abs. Condensing Pressure, bar	22.98
Dew Point, °C	50.00
Bubble Point, °C	49.70
Saturated vapour enthalpy, kJ/kg	382.00
Specific volume of saturated vapour, dm ³ /kg	7.30
Liquid Temperature, °C	49.70
Liquid enthalpy, kJ/kg	277.00
Low Side Properties:	
Evaporating Temperature, °C	20.00-
Evaporating Abs. Pressure, bar	3.03
Dew Point, °C	20.00-
Bubble Point, °C	20.60-
With vapour at, °C	10.00-
Specific volume, dm ³ /kg	67.90
Enthalpy, kJ/kg	364.00
Operating Conditions:	
Evaporating Temperature, °C	20.00-
Condensing Temperature, °C	50.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	6TK-300X SUB

**PERFORMANCE AT SPECIFIED OPERATING POINT
6TK-300X SUB Data at 50 Hz**

Cooling Capacity, kW	48.00
Power, kW	32.20
COP	1.49
Current at 400 V, A	52.76
Suction Mass Flow, g/s	345.00
Heating Capacity, kW	78.70
Isentropic Eff., %	58.36
Economiser Load, kW	18.15
Intermediate Dew Temperature, °C	12.40
Liquid Temperature LO, °C	16.90

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)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
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	3922
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