



Select 8

Copeland[™]
brand products



EMERSON[™]



Project Report

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

Author Name: Sarma Tajhiz Saba (Sabacool)

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	D6TH-200X

**PERFORMANCE AT SPECIFIED OPERATING POINT
D6TH-200X Data at 50 Hz**

Cooling Capacity, kW	19.95
Power, kW	20.10
COP	0.99
Current at 400 V, A	35.34
Suction Mass Flow, g/s	230.00
Heating Capacity, kW	39.10
Isentropic Eff., %	49.09

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	222
Gross Weight, kg	252
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	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	37.7
Locked Rotor Current, A	173
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Oil Control System	ALCO Trax-Oil OM3

D6TA, D6TH

