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GACO SARL

28, Rue Bencharif Madani

25000 BELLEVUE/CONSTANTINE - ALGERIE

Tel. : 031 92 54 56 / 031 93 22 23 - Fax : 031 92 13 45

Email : gacosarl@gmail.com / benkobbi_fares@yahoo.fr



Project Report

Refrigerant R404A Dew Point

High Side Properties:

Condensing Temperature °C	52.00
Condensing Abs. Pressure bar a	24.05
Dew Point °C	52.00
Bubble Point °C	51.71
Saturated vapour enthalpy kJ/kg	381.49
Specific volume of saturated vapour cu.dm/kg	6.84
Liquid Temperature °C	51.71
Liquid enthalpy kJ/kg	280.53

Low Side Properties:

Evaporating Temperature °C	-10.00
Evaporating Abs. Pressure bar a	4.34
Dew Point °C	-10.00
Bubble Point °C	-10.59
With vapour at °C	0.00
Specific volume cu.dm/kg	47.99
Enthalpy kJ/kg	369.46

Operating Conditions:

Evaporating Temperature °C	-10.00
Condensing Temperature °C	52.00
Suction Superheat K	10.00
Subcooling K	0.00

Compressor Selected D3DS-100X

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**PERFORMANCE AT SPECIFIED OPERATING POINT
D3DS-100X Data at 50Hz**

Cooling Capacity kW	21.50
Power kW	12.55
COP	1.71
Current at 400V, A	21.02
Mass Flow g/s	241.00
Heat Rejection kW	33.40
Isentropic Eff. %	69.05

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	3
Displacement @ 50 Hz, cu.m/h	49.9
Bore/Stroke, mm	61.9/63.5
Length/Width, mm	680/370
Height, mm	480
Net Weight, kg	162
Gross Weight, kg	173
Rotalock Discharge, inch	1 1/8
Suction, inch	1 3/8
Oil Quantity, l	3.7
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	72
Sound Pressure @ 1m (MT), dBA	71
Sound Power (LT), dBA	83
Sound Power (MT), dBA	82
High Side PS, bar(g)	32.5
Low Side PS, bar(g)	22.5

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

Maximum Operating Current, A	24.4
Locked Rotor Current, A	121
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

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***ACCESSORIES OPTIONAL***

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

70W Vertical Air Flow Fan
Moduload
70W Internal
IP 56
OPS2 Electronic Switch
Available
Mounted
For Parallel Operation
For unloaded start operation
ALCO Trax-Oil OM3
Emerson Industrial Automation,
Unidrive M200 05 400 350

D3DA 75X / 750
D3DC 100X / 1000
D3DS 100X / 1000

