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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

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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	-25.00
Evaporating Abs. Pressure bar a	2.50
Dew Point °C	-25.00
Bubble Point °C	-25.67
With vapour at °C	-15.00
Specific volume cu.dm/kg	81.63
Enthalpy kJ/kg	360.46
Operating Conditions:	
Evaporating Temperature °C	-25.00
Condensing Temperature °C	52.00
Suction Superheat K	10.00
Subcooling K	0.00
Compressor Selected	D4DT-220X

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**PERFORMANCE AT SPECIFIED OPERATING POINT
D4DT-220X Data at 50Hz**

Cooling Capacity kW	17.50
Power kW	15.70
COP	1.11
Current at 400V, A	27.41
Mass Flow g/s	219.00
Heat Rejection kW	32.40
Isentropic Eff. %	67.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, cu.m/h	84.7
Bore/Stroke, mm	74.7/55.6
Length/Width, mm	700/535
Height, mm	795
Net Weight, kg	215
Gross Weight, kg	231
Rotalock Discharge, inch	1 3/8
Suction, inch	2 1/8
Oil Quantity, l	3.3
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	381 x 305 (18.0)
Sound Pressure @ 1m (LT), dBA	78
Sound Pressure @ 1m (MT), dBA	73
Sound Power (LT), dBA	89
Sound Power (MT), dBA	84
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	42.8
Locked Rotor Current, A	175
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
Capacity Steps 50%
100W Internal
IP 56
OPS2 Electronic Switch
Available
Mounted
For Parallel Operation
For unloaded start operation
ALCO Trax-Oil OM3
Emerson Industrial Automation,
Unidrive M400 07 400 660

D4DT

