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GACO SARL

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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 D4DL-150X

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**PERFORMANCE AT SPECIFIED OPERATING POINT
D4DL-150X Data at 50Hz**

Cooling Capacity kW	14.20
Power kW	12.75
COP	1.11
Current at 400V, A	22.74
Mass Flow g/s	178.00
Heat Rejection kW	26.30
Isentropic Eff. %	66.93

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	4
Displacement @ 50 Hz, cu.m/h	70.8
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	680/535
Height, mm	605
Net Weight, kg	205
Gross Weight, kg	221
Rotalock Discharge, inch	1 1/8
Suction, inch	1 5/8
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	77
Sound Pressure @ 1m (MT), dBA	72
Sound Power (LT), dBA	88
Sound Power (MT), dBA	83
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	35.3
Locked Rotor Current, A	156
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 M200 06 400 470

D4DF, D4DL

