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**EMERSON**

**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	-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 D4DA-200X

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**PERFORMANCE AT SPECIFIED OPERATING POINT  
D4DA-200X Data at 50Hz**

Cooling Capacity kW	23.50
Power kW	13.35
COP	1.76
Current at 400V, A	24.32
Mass Flow g/s	265.00
Heat Rejection kW	36.20
Isentropic Eff. %	71.22

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	4
Displacement @ 50 Hz, cu.m/h	56
Bore/Stroke, mm	63.5/50.8
Length/Width, mm	650/535
Height, mm	495
Net Weight, kg	196
Gross Weight, kg	212
Suction, inch	1 5/8
Discharge, inch	1 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 (MT), dBA	72
Sound Pressure @ 1m (HT), dBA	71
Sound Power (MT), dBA	83
Sound Power (HT), 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	32.5
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 M200 06 400 350

D4DA 100X  
D4DA 200X, D4DA 2000  
D4DH 150X

