



# Select 8

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**EMERSON**

**GACO SARL**

28, Rue Bencharif Madani

25000 BELLEVUE/CONSTANTINE - ALGERIE

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## Project Report

Refrigerant	R404A Dew Point
<b>High Side Properties:</b>	
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
<b>Low Side Properties:</b>	
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
<b>Operating Conditions:</b>	
Evaporating Temperature °C	-25.00
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	10.40
Power kW	9.13
COP	1.14
Current at 400V, A	15.94
Mass Flow g/s	130.00
Heat Rejection kW	19.05
Isentropic Eff. %	68.34

**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

