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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	D6SH-350X

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**PERFORMANCE AT SPECIFIED OPERATING POINT
D6SH-350X Data at 50Hz**

Cooling Capacity kW	18.55
Power kW	17.20
COP	1.08
Current at 400V, A	36.35
Mass Flow g/s	232.00
Heat Rejection kW	34.90
Isentropic Eff. %	64.75

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	6
Displacement @ 50 Hz, cu.m/h	106
Bore/Stroke, mm	68.3/55.6
Length/Width, mm	760/540
Height, mm	490
Net Weight, kg	224
Gross Weight, kg	240
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, dBA	77
Sound Power, dBA	88
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	65.5
Locked Rotor Current, A	304
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	70W Vertical Air Flow Fan
Capacity Control	Capacity Steps 66/33%
Crankcase Heater	100W Internal
Discharge Temperature Protection	Head PTC sensor
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Deep Oil Sump	Mounted
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3
Inverter	Emerson Industrial Automation, Unidrive M400 07 400 660

D6SH 3500, D6SH 350X

