



Project Report

Refrigerant	R404A Dew Point
High Side Properties:	
Condensing Temperature, °C	40.60
Abs. Condensing Pressure, bar	18.42
Dew Point, °C	40.60
Bubble Point, °C	40.20
Saturated vapour enthalpy, kJ/kg	381.00
Specific volume of saturated vapour, dm³/kg	9.70
Low Side Properties:	
Evaporating Temperature, °C	-31.70
Evaporating Abs. Pressure, bar	1.91
Dew Point, °C	-31.70
Bubble Point, °C	-32.40
With vapour at, °C	18.30
Specific volume, dm³/kg	125.50
Enthalpy, kJ/kg	391.00
Operating Conditions:	
Evaporating Temperature, °C	-31.67
Condensing Temperature, °C	40.56
Suction Return Temperature, °C	18.33
Subcooling, K	0.00
Compressor Selected	8DJ-600X

PERFORMANCE AT SPECIFIED OPERATING POINT **8DJ-600X Data at 50 Hz**

Cooling Capacity, kW	39.40
Power, kW	25.60
COP	1.54
Current at 400 V, A	57.15
Suction Mass Flow, g/s	303.00
Heating Capacity, kW	63.70
Isentropic Eff., %	69.05

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders	8
Displacement @ 50 Hz, m ³ /h	181
Bore/Stroke, mm	74.7/59.2
Length/Width, mm	835/475
Height, mm	610
Net Weight, kg	331
Gross Weight, kg	352
Suction, inch	3 1/8
Discharge, inch	1 5/8
Drive Frequency Range, Hz	25 - 60
Oil Quantity, l	7.6
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	457 x 305 (18)
Sound Pressure @ 1m, dBA	79.5
Sound Power, dBA	90.5
High Side PS gauge, bar	32.5
Low Side PS gauge, bar	22.5
Refrigerant's GWP	3922
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	108
Locked Rotor Current, A	476
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4
Deep Oil Sump	Mounted

ACCESSORIES OPTIONAL

Additional Cooling	70 W Vertical Air Flow Fan
Capacity Control	Capacity Steps 75/50%
Crankcase Heater	200 W Internal
Enclosure Class	IP 56
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve	For unloaded start operation
Oil Control System	ALCO Trax-Oil OM3

D8D

