

Copeland Selection Software

REFRIGERANT

R407C Dew Point

Operating Conditions:

Evaporating Temperature:

5.0°C

Condensing Temperature:

50.0°C

Liquid subcooling:

0.0K

Suction Superheat:

10.0K

Required Capacity:**6.8 kW**

Compressor Selected:

ZR380KCE-TWD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZR380KCE-TWD Data at 50 Hz

Capacity kW	80.10
Power Input kW	24.40
COP	3.28
Current 400V, A	42.52
Mass Flow g/s	528.00
Heating Capacity kW	103.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Length/Width, mm 447/427	Height, mm 715
Net Weight, kg 176.9	Stub Suction, inch 1 5/8
Stub Discharge, inch 1 3/8	Oil Quantity, l 6.3
Sound Power (HT), dBA 87	PED Category 2
Internal Free Volume, l 31.6	High Side PS, bar(g) 32
Low Side PS, bar(g) 20	Low Side TS Max., °C 52
Low Side TS Min., °C -35	
Displacement @ 50 Hz, cu.m/h 87.5	
Base mounting (hole dia), mm 266.7 x 266.7 (22.6)	
Sound Pressure @ 1m (HT), dBA 76	

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

Locked Rotor Current, A 310
Maximum Operating Current, A 62.5
Winding Resistance, ohm 0.36/0.36/0 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Discharge Temperature Protection	PTC in Scroll Discharge Port
Enclosure Class	IP 54
Mounting Grommets	Standard
Mounting Grommets	Rubber Grommet For Single
Oil Service Valve	Schraeder Valve
Check Valve (NRV)	Discharge Low Leak Check Valve

ACCESSORIES OPTIONAL

Crankcase Heater	150 W External
Mounting Grommets	Rubber Grommet For Single
Mounting Grommets	Rubber Grommet For Parallel Operation
Adapter Kit	R1"3/4 - B1"3/8 For TPTL for Parallel Operation
Oil Control System	ALCO Trax-Oil OM3