

Copeland Selection Software

REFRIGERANT

R134a

Operating Conditions:

Evaporating Temperature:

5.0°C

Condensing Temperature:

50.0°C

Liquid subcooling:

0.0K

Suction Superheat:

10.0K

Required Capacity:**35.0 kW**

Compressor Selected:

ZR250KCE-TWD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZR250KCE-TWD Data at 50 Hz

Capacity kW	35.40
Power Input kW	11.15
COP	3.18
Current 400V, A	21.26
Mass Flow g/s	256.00
Heating Capacity kW	46.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Length/Width, mm 432/376	Height, mm 717
Net Weight, kg 140	Gross Weight, kg 168
Stub Suction, inch 1 5/8 ID	Stub Discharge, inch 1 3/8 ID
Oil Quantity, l 4.7	Sound Power (HT), dBA 83
PED Category 2	Internal Free Volume, l 26.9
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 56.6	
Rotalock Suction, inch 2 1/4 x 12 UN	
Rotalock Discharge, inch 1 3/4 x 12 UN	
Base mounting (hole dia), mm 266.7 x 266.7 (22.6)	
Sound Pressure @ 1m (HT), dBA 72	

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

Locked Rotor Current, A 225
Maximum Operating Current, A 41
Winding Resistance, ohm 0.63
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
Motor Protection Device	INT69SC2
Mounting Grommets	Standard
Oil Service Valve	Schraeder Valve
Check Valve (NRV)	Discharge Low Leak Check Valve

ACCESSORIES OPTIONAL

Crankcase Heater	120 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