



# Select 8

**Copeland**<sup>™</sup>  
brand products



**EMERSON**<sup>™</sup>



## Project Report

Refrigerant	R410A Dew Point
<b>High Side Properties:</b>	
Condensing Temperature, °C	45.00
Abs. Condensing Pressure, bar	27.18
Dew Point, °C	45.00
Bubble Point, °C	44.90
Saturated vapour enthalpy, kJ/kg	424.00
Specific volume of saturated vapour, dm <sup>3</sup> /kg	8.40
Liquid Temperature, °C	44.90
Liquid enthalpy, kJ/kg	275.00
<b>Low Side Properties:</b>	
Evaporating Temperature, °C	-10.00
Evaporating Abs. Pressure, bar	5.72
Dew Point, °C	-10.00
Bubble Point, °C	-10.10
With vapour at, °C	0.00
Specific volume, dm <sup>3</sup> /kg	48.50
Enthalpy, kJ/kg	427.00
<b>Operating Conditions:</b>	
Evaporating Temperature, °C	-10.00
Condensing Temperature, °C	45.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	ZP295KCE-TWD

**PERFORMANCE AT SPECIFIED OPERATING POINT**  
**ZP295KCE-TWD Data at 50 Hz**

Cooling Capacity, kW	39.00
Power, kW	17.65
COP	2.21
Current at 400 V, A	31.73
Suction Mass Flow, g/s	256.00
Heating Capacity, kW	55.70
Isentropic Eff., %	67.43

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	46.7
Length/Width, mm	390/447
Height, mm	715
Net Weight, kg	160
Gross Weight, kg	188
Stub Suction, inch	1 5/8 ID
Stub Discharge, inch	1 3/8 ID
Oil Quantity, l	6.8
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	266.7 x 266.7 (22.6)
Sound Pressure @ 1m (HT), dBA	74
Sound Power (HT), dBA	85
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	33.5
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	48.5
Locked Rotor Current, A	272
Winding Resistance, ohm	0.51
Default Enclosure Class	IP 54 (IEC 34)

***ACCESSORIES INCLUDED***

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

***ACCESSORIES OPTIONAL***

Crankcase Heater	102 W External
Mounting Grommets	Rubber Grommet For Parallel
Adapter Kit	Operation
Oil Control System	R1"3/4 - B1"3/8 For TPTL for
ALCO Trax-Oil OM4	Parallel Operation

ZH125,150KCE  
ZP295,385KCE  
ZR310,380KCE

