

Refrigerant	R410A Dew Point
High Side Properties:	
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 ³ /kg	8.40
Low Side Properties:	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	7.97
Dew Point, °C	0.00
Bubble Point, °C	-0.10
With vapour at, °C	10.00
Specific volume, dm ³ /kg	35.00
Enthalpy, kJ/kg	431.00
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	45.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	ZPD91KCE-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZPD91KCE-TFD Data at 50 Hz**

Cooling Capacity, kW	17.30
Power, kW	5.60
COP	3.09
Current at 400 V, A	10.40
Suction Mass Flow, g/s	110.50
Heating Capacity, kW	22.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.7
Length/Width, mm	246/252
Height, mm	481
Net Weight, kg	41.5
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
Oil Quantity, l	1.77
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	5.90
High Side PS gauge, bar	43
Low Side PS gauge, bar	28
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	16.2
Locked Rotor Current, A	101
Winding Resistance, ohm	1.79
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Enclosure Class	IP21
Mounting Grommets	Rubber Grommet For Single
Oil Charge	
Oil Service Valve	Schraeder Valve
Digital Control	Separated Solenoid Valve

ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Discharge Temp Protection	
Mounting Grommets	Hard Mounts for Paralleling
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Sound Attenuation	Parallel Operation
Valve Coil	Sound Shell (12dBA)
Valve Coil	220V
Solenoid Valve Kit	24V AC
Solenoid Valve Kit	220 V Ac 12" lead Length
Digital Tubing Kit	24 V Ac 12" lead Length
Digital Tubing Kit	220 V 0.3m Brazed
Digital Tubing Kit	24 V 0.3m Brazed

ZPD 91 KCE

