

Refrigerant	R407C Arith. Mean Temp.
High Side Properties:	
Condensing Temperature, °C	55.00
Abs. Condensing Pressure, bar	23.59
Dew Point, °C	57.10
Bubble Point, °C	52.90
Saturated vapour enthalpy, kJ/kg	426.00
Specific volume of saturated vapour, dm ³ /kg	8.90
Low Side Properties:	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	4.93
Dew Point, °C	1.90
Bubble Point, °C	-4.30
With vapour at, °C	11.90
Specific volume, dm ³ /kg	50.20
Enthalpy, kJ/kg	419.00
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	55.00
Suction Superheat, K	10.00
Subcooling, K	2.00
Compressor Selected	ZR48K3E-TF5

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZR48K3E-TF5 Data at 50 Hz**

Evaporating Abs. Pressure, bar	4.93
Abs. Condensing Pressure, bar	23.59
Cooling Capacity, kW	8.24
Power, kW	3.89
COP	2.12
Current at 200 V, A	11.59
Suction Mass Flow, g/s	58.50
Heating Capacity, kW	11.95
Isentropic Eff., %	60.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.4
Length/Width, mm	246/246
Height, mm	431
Net Weight, kg	32.7
Gross Weight, kg	32.7
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.36
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	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	57
Sound Power (HT), dBA	68
Sound Power with Sound Shell (HT), dBA	63
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	I
Max. Internal Free Volume, l	3.40
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1774
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (200-220 V / 3~ / 50 Hz)

Maximum Operating Current, A	18.5
Locked Rotor Current, A	98
Winding Resistance, ohm	0.95
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
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ZR48K3E

