



Refrigerant	R407C Dew Point
High Side Properties:	
Condensing Temperature, °C	45.00
Abs. Condensing Pressure, bar	17.51
Dew Point, °C	45.00
Bubble Point, °C	40.10
Saturated vapour enthalpy, kJ/kg	425.00
Specific volume of saturated vapour, dm ³ /kg	12.70
Low Side Properties:	
Evaporating Temperature, °C	0.00
Evaporating Abs. Pressure, bar	4.61
Dew Point, °C	0.00
Bubble Point, °C	-6.30
With vapour at, °C	10.00
Specific volume, dm ³ /kg	53.50
Enthalpy, kJ/kg	418.00
Operating Conditions:	
Evaporating Temperature, °C	0.00
Condensing Temperature, °C	45.00
Suction Superheat, K	10.00
Subcooling, K	0.00
Compressor Selected	ZR16M3E-TWD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZR16M3E-TWD Data at 50 Hz**

Cooling Capacity, kW	28.30
Power, kW	9.10
COP	3.11
Current at 400 V, A	16.31
Suction Mass Flow, g/s	179.50
Heating Capacity, kW	37.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	35.5
Length/Width, mm	319/357
Height, mm	532
Net Weight, kg	95
Gross Weight, kg	101
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	4.1
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	220 x 220 (8.5)
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
Sound Power with Sound Shell (HT), dBA	68
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Low Side Internal Free Volume, l	15.2
Max. High Side Internal Free Volume, l	2.1
Max. Internal Free Volume, l	17.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Low Side TS Min., °C	-35
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	27
Locked Rotor Current, A	167
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater
Mounting Grommets
Oil Control System
Sound Attenuation

49 W External
Hard Mounts for Paralleling
ALCO Trax-Oil OM3
Sound Shell (10dBA)

	A	H
ZR90K3 (E)		
ZR11M3 (E)	497.34 (19.58')	537.84 (21.17')
ZR12M3 (E)		
ZR16M3 (E)	504.96 (19.88')	545.46 (21.47')

