



Refrigerant	R449A Dew Point
High Side Properties:	
Condensing Temperature, °C	45.00
Abs. Condensing Pressure, bar	18.86
Dew Point, °C	45.00
Bubble Point, °C	40.70
Saturated vapour enthalpy, kJ/kg	414.00
Specific volume of saturated vapour, dm ³ /kg	11.30
Low Side Properties:	
Evaporating Temperature, °C	-10.00
Evaporating Abs. Pressure, bar	3.61
Dew Point, °C	-10.00
Bubble Point, °C	-15.40
With vapour at, °C	10.00
Specific volume, dm ³ /kg	69.30
Enthalpy, kJ/kg	412.00
Operating Conditions:	
Evaporating Temperature, °C	-10.00
Condensing Temperature, °C	45.00
Suction Superheat, K	20.00
Subcooling, K	0.00
Compressor Selected	ZBD76KCE-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZBD76KCE-TFD Data at 50 Hz**

Cooling Capacity, kW	17.15
Power, kW	7.98
COP	2.15
Current at 400 V, A	15.30
Suction Mass Flow, g/s	114.50
Heating Capacity, kW	24.70

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	28.8
Length/Width, mm	293/285
Height, mm	533
Net Weight, kg	61.7
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.25
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)
PED Category	2
Max. Low Side Internal Free Volume, l	12.6
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.1
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	20.4
Locked Rotor Current, A	118
Winding Resistance, ohm	1.27
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Solenoid valve	Standard
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ACCESSORIES OPTIONAL

Crankcase Heater	66 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

ZBD76

