



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	20.00
Specific volume, dm ³ /kg	72.50
Enthalpy, kJ/kg	421.00
Operating Conditions:	
Evaporating Temperature, °C	-10.00
Condensing Temperature, °C	45.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	ZB15KCE-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZB15KCE-TFD Data at 50 Hz

Cooling Capacity, kW	3.27
Power, kW	1.72
COP	1.89
Current at 400 V, A	3.24
Suction Mass Flow, g/s	20.60
Heating Capacity, kW	4.91

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	5.92
Length/Width, mm	241/241
Height, mm	382
Net Weight, kg	25.3
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	0.74
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 (MT), dBA	55
Sound Power (MT), dBA	66
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	2.50
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
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	4.9
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater
Oil Control System
Sound Attenuation
Rotalock valves

70 W External
ALCO Trax-Oil OM3
Sound Shell (10dBA)
suction and discharge

MODEL NUMBER	A±3.0	B	C	D±3.0	F	G_	H
ZF06K4/K4E	368.7	343.1	243.8	202.2	279.4	68.9	43.4
ZF08K4/K4E ZF09K4/K4E	391.3	365.7	263.7	222.1	302.0	74.6	49.1
ZF11K4/K4E	405.0	379.4	276.4	234.8	315.7	74.6	49.1
ZS15K4/K4E	368.7	343.1	243.8	202.2	OMIT	68.9	43.4
ZS19K4/K4E ZS21K4/K4E	391.3	365.7	263.7	222.1	OMIT	74.6	49.1
ZS26K4/K4E	405.0	379.4	276.4	234.8	OMIT	74.6	49.1
ZB15KC/KCE ZB19KC/KCE	368.7	343.1	243.8	202.2	OMIT	68.9	43.4
ZB21KC/KCE	391.3	365.7	263.7	222.1	OMIT	74.6	49.1
ZB26KC/KCE	405.0	379.4	276.4	234.8	OMIT	74.6	49.1
ZB29KCE	423.4	397.1	293.5	252.0	OMIT	74.6	49.1

