



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	-35.00
Evaporating Abs. Pressure, bar	1.29
Dew Point, °C	-35.00
Bubble Point, °C	-40.70
With vapour at, °C	20.00
Specific volume, dm ³ /kg	213.00
Enthalpy, kJ/kg	425.00
Operating Conditions:	
Evaporating Temperature, °C	-35.00
Condensing Temperature, °C	45.00
Suction Return Temperature, °C	20.00
Subcooling, K	0.00
Compressor Selected	ZF09K4E-TFD

**PERFORMANCE AT SPECIFIED OPERATING POINT
ZF09K4E-TFD Data at 50 Hz**

Cooling Capacity, kW	1.58
Power, kW	1.63
COP	0.97
Current at 400 V, A	3.66
Suction Mass Flow, g/s	9.72
Heating Capacity, kW	3.13

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.03
Length/Width, mm	243/244
Height, mm	391
Net Weight, kg	27
Gross Weight, kg	30
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.5
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 (LT), dBA	62
Sound Power (LT), dBA	73
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.10
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	6
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Current Sensing Relay	External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	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

