

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	ZF15K4E-TFD

PERFORMANCE AT SPECIFIED OPERATING POINT
ZF15K4E-TFD Data at 50 Hz

Cooling Capacity, kW	2.82
Power, kW	3.14
COP	0.90
Current at 400 V, A	5.90
Suction Mass Flow, g/s	17.30
Heating Capacity, kW	5.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	14.4
Length/Width, mm	246/251
Height, mm	442
Net Weight, kg	39
Gross Weight, kg	42
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Oil Quantity, l	1.9
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	5.90
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	10
Locked Rotor Current, A	64
Winding Resistance, ohm	2.75
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±3.0	E	F	G ₋	H
ZF13K4 / K4E ZF15K4 / K4E ZF18K4 / K4E	442.0	409.6	79.5	340.9	47.5	120.2
ZS30K4 / K4E ZS38K4 / K4E ZS45K4 / K4E	437.7	409.6	79.5	OMIT	47.5	OMIT
ZB30KC / KCE ZB38KC / KCE ZB42KC / KCE ZB45KC / KCE						

LIQUID INJECTION FITTING
[1 1/16-16 UN-2A THREADS]
[0.25 ID]

25.4 [1.00-14] THREAD
ROTALOCK SPUD
DISCHARGE

31.75 [1.250-12] THREAD
ROTALOCK SPUD
SUCTION

