



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	20.60	25.20	30.50						
5.0	20.50	25.10	30.40						
10.0	19.75	24.40	29.70	35.90					
15.0	18.80	23.50	28.80	34.90	41.90				
20.0	17.70	22.40	27.70	33.80	40.60	48.40			
25.0	16.40	21.20	26.50	32.50	39.20	46.80	55.50		
30.0		19.70	25.00	30.90	37.60	45.00	53.40	57.10	62.90
35.0		18.10	23.30	29.20	35.70	43.00	51.20	54.70	60.40
40.0			21.50	27.20	33.60	40.70	48.70	52.10	57.60
45.0			19.40	25.00	31.30	38.20	45.90	49.30	54.60
50.0				22.60	28.70	35.50	43.00	46.20	51.30
55.0					25.90	32.50	39.70	42.80	47.80
60.0					22.90	29.20	36.20	39.20	43.90

50 Hz

ZB114K5E-TFD

R449A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	3.80	3.89	4.00						
5.0	3.86	3.95	4.07						
10.0	4.47	4.55	4.67	4.81					
15.0	5.18	5.24	5.34	5.48	5.64				
20.0	5.98	6.02	6.10	6.23	6.40	6.59			
25.0	6.90	6.90	6.96	7.08	7.23	7.43	7.65		
30.0		7.90	7.94	8.02	8.17	8.35	8.57	8.67	8.83
35.0		9.03	9.03	9.09	9.21	9.38	9.60	9.69	9.85
40.0			10.25	10.30	10.35	10.50	10.70	10.80	10.95
45.0			11.65	11.60	11.65	11.80	11.95	12.05	12.20
50.0				13.10	13.10	13.20	13.35	13.45	13.55
55.0					14.70	14.75	14.85	14.95	15.05
60.0					16.45	16.45	16.55	16.60	16.70

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	15.80	15.84	15.88						
5.0	15.82	15.87	15.91						
10.0	16.12	16.18	16.25	16.32					
15.0	16.56	16.61	16.69	16.78	16.89				
20.0	17.15	17.19	17.26	17.37	17.51	17.66			
25.0	17.94	17.95	18.01	18.11	18.26	18.44	18.65		
30.0		18.92	18.95	19.04	19.19	19.38	19.61	19.72	19.88
35.0		20.12	20.12	20.18	20.32	20.51	20.76	20.87	21.05
40.0			21.54	21.57	21.67	21.86	22.10	22.22	22.42
45.0			23.25	23.23	23.29	23.45	23.69	23.80	24.00
50.0				25.19	25.21	25.33	25.54	25.65	25.84
55.0					27.44	27.51	27.68	27.78	27.96
60.0					30.03	30.03	30.16	30.24	30.40

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	92.30	113.00	137.50						
5.0	92.20	113.50	138.00						
10.0	91.70	113.50	139.00	169.00					
15.0	90.40	113.50	140.00	170.50	206.00				
20.0	88.20	112.50	139.50	171.00	207.00	249.00			
25.0	85.10	110.00	138.50	171.00	208.00	251.00	300.00		
30.0		107.00	136.50	170.00	208.00	252.00	302.00	324.00	360.00
35.0		102.50	133.50	168.00	207.00	252.00	303.00	326.00	363.00
40.0			128.50	164.50	205.00	250.00	303.00	326.00	364.00
45.0			122.50	159.50	201.00	248.00	302.00	326.00	365.00
50.0				152.50	195.50	244.00	300.00	324.00	364.00
55.0					188.00	238.00	296.00	321.00	362.00
60.0					178.50	231.00	291.00	317.00	359.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	43.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	66.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (0)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	14.0
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	33.5
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 54 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

**MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04