



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°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	17.95	22.50	27.60	33.20				
15.0	17.30	21.90	27.20	33.10				
20.0	16.40	21.10	26.40	32.40	38.90			
25.0	15.30	19.95	25.30	31.40	38.00	45.10		
30.0		18.60	23.90	30.00	36.60	43.80	51.40	54.60
35.0			22.30	28.20	34.90	42.10	49.70	52.90
40.0			20.50	26.30	32.80	39.90	47.60	50.70
45.0				24.10	30.40	37.40	44.90	48.10
50.0					27.80	34.50	41.90	45.00
55.0						31.40	38.60	41.60

50 Hz

ZB114K5E-TFD

R407A Dew Point

Cond °C	Power, kW							
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	5.02	5.16	5.30	5.38				
15.0	5.56	5.73	5.92	6.08				
20.0	6.18	6.35	6.56	6.77	6.94			
25.0	6.92	7.06	7.26	7.50	7.72	7.87		
30.0		7.90	8.07	8.30	8.54	8.74	8.87	8.89
35.0			9.02	9.22	9.45	9.68	9.85	9.89
40.0			10.15	10.30	10.50	10.70	10.90	10.95
45.0				11.55	11.70	11.90	12.05	12.10
50.0					13.10	13.25	13.40	13.45
55.0						14.80	14.90	14.95

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	15.09	15.37	15.47	15.37				
15.0	15.56	15.91	16.13	16.19				
20.0	16.16	16.54	16.83	17.01	17.06			
25.0	16.96	17.33	17.65	17.90	18.07	18.12		
30.0		18.34	18.64	18.93	19.16	19.34	19.44	19.45
35.0			19.89	20.16	20.42	20.68	20.89	20.97
40.0			21.45	21.66	21.91	22.19	22.48	22.60
45.0				23.50	23.70	23.96	24.29	24.42
50.0					25.85	26.06	26.36	26.51
55.0						28.54	28.79	28.92

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	84.30	106.00	130.50	158.00				
15.0	84.00	107.00	133.50	163.00				
20.0	82.60	106.50	134.50	166.00	200.00			
25.0	80.20	105.00	134.00	167.00	204.00	244.00		
30.0		102.00	132.00	166.00	205.00	247.00	293.00	312.00
35.0			128.50	164.00	204.00	248.00	297.00	317.00
40.0			124.00	160.00	201.00	247.00	298.00	320.00
45.0				154.50	196.50	244.00	297.00	320.00
50.0					190.00	239.00	294.00	317.00
55.0						232.00	288.00	313.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	2107
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	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

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

50 Hz

ZB114K5E-TFD

R407A Dew Point

MOTOR OPTIONS

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