



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- 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
10.0	10.80	13.25	16.10	19.50					
15.0	10.45	12.80	15.60	18.80	22.50				
20.0	10.05	12.35	15.00	18.05	21.60	25.70			
25.0	9.60	11.80	14.30	17.25	20.60	24.50	28.80		
30.0	9.10	11.15	13.55	16.35	19.50	23.20	27.30	29.10	32.00
35.0	8.56	10.50	12.75	15.35	18.35	21.80	25.70	27.30	30.10
40.0	7.98	9.79	11.90	14.30	17.10	20.30	23.90	25.50	28.00
45.0	7.36	9.04	10.95	13.20	15.75	18.70	22.10	23.50	25.90
50.0		8.24	10.00	12.05	14.35	17.05	20.20	21.50	23.70
55.0			8.99	10.80	12.90	15.35	18.15	19.40	21.40
60.0				9.53	11.40	13.55	16.05	17.15	18.95

50 Hz

ZB57KCE-TFD

R404A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	2.76	2.88	2.99	3.08					
15.0	3.03	3.17	3.29	3.40	3.49				
20.0	3.31	3.47	3.61	3.74	3.84	3.93			
25.0	3.62	3.80	3.96	4.10	4.22	4.32	4.40		
30.0	3.95	4.15	4.33	4.49	4.63	4.74	4.83	4.86	4.90
35.0	4.30	4.53	4.73	4.91	5.07	5.20	5.30	5.34	5.39
40.0	4.69	4.94	5.17	5.37	5.54	5.69	5.81	5.85	5.91
45.0	5.11	5.39	5.64	5.86	6.06	6.22	6.36	6.41	6.47
50.0		5.88	6.15	6.40	6.61	6.80	6.96	7.01	7.09
55.0			6.71	6.98	7.22	7.42	7.60	7.66	7.75
60.0				7.61	7.87	8.10	8.30	8.37	8.46

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
10.0	7.04	7.12	7.21	7.28					
15.0	7.24	7.35	7.45	7.54	7.62				
20.0	7.47	7.61	7.73	7.84	7.94	8.02			
25.0	7.73	7.90	8.05	8.18	8.29	8.39	8.47		
30.0	8.03	8.23	8.40	8.56	8.70	8.82	8.91	8.94	8.98
35.0	8.37	8.60	8.81	8.99	9.16	9.30	9.41	9.45	9.50
40.0	8.76	9.03	9.27	9.48	9.67	9.84	9.98	10.02	10.09
45.0	9.21	9.51	9.79	10.04	10.26	10.45	10.61	10.67	10.75
50.0		10.06	10.37	10.66	10.91	11.14	11.33	11.40	11.49
55.0			11.03	11.35	11.65	11.90	12.13	12.21	12.31
60.0				12.13	12.46	12.76	13.01	13.10	13.23

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
10.0	60.80	74.90	91.70	111.50					
15.0	61.30	75.60	92.50	112.50	136.00				
20.0	61.60	76.00	93.00	113.00	136.50	163.50			
25.0	61.70	76.10	93.10	113.00	136.50	164.00	195.50		
30.0	61.60	76.00	92.90	113.00	136.00	163.50	195.50	210.00	233.00
35.0	61.20	75.50	92.40	112.00	135.50	163.00	195.00	209.00	232.00
40.0	60.60	74.80	91.60	111.50	134.50	161.50	193.50	208.00	231.00
45.0	59.80	73.90	90.40	110.00	133.00	160.00	192.00	206.00	230.00
50.0		72.70	89.00	108.00	131.00	158.00	190.00	204.00	228.00
55.0			87.30	106.00	128.50	155.50	187.50	202.00	226.00
60.0				104.00	126.50	153.50	186.00	201.00	225.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	21.4
Length/Width, mm	258/263
Height, mm	442
Net Weight, kg	43.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	1.89
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 (19)
Sound Pressure @ 1m (MT), dBA	73
Sound Power (MT), dBA	84
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	5.70
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	15.9
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	External thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFE	500 V / 3~ / 50 Hz	500		Y	0.80
TW5	200-220 V / 3~ / 50 Hz	200		Y	2.30
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TFE	575 V / 3~ / 60 Hz	575		Y	0.80