



Minimum Evaporating Temp. With:

- 25 °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
10.0	14.75	18.10	22.10	26.80					
15.0	14.05	17.30	21.10	25.50	30.60				
20.0	13.35	16.40	20.00	24.20	29.00	34.60			
25.0	12.65	15.55	18.90	22.90	27.40	32.60	38.60		
30.0	11.90	14.60	17.80	21.50	25.70	30.60	36.20	38.60	42.50
35.0	11.15	13.70	16.65	20.10	24.00	28.60	33.80	36.10	39.70
40.0	10.35	12.70	15.45	18.60	22.30	26.50	31.30	33.40	36.80
45.0	9.53	11.70	14.25	17.15	20.50	24.40	28.80	30.70	33.90
50.0		10.70	13.00	15.60	18.65	22.20	26.20	28.00	30.90
55.0		9.64	11.70	14.05	16.80	19.95	23.60	25.20	27.80
60.0			10.40	12.45	14.90	17.70	20.90	22.40	24.70

50 Hz

ZB75KCE-TWD

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	3.53	3.71	3.94	4.26					
15.0	3.97	4.14	4.35	4.62	4.99				
20.0	4.46	4.62	4.81	5.05	5.36	5.78			
25.0	4.98	5.15	5.32	5.54	5.81	6.17	6.63		
30.0	5.54	5.72	5.89	6.08	6.32	6.63	7.03	7.22	7.54
35.0	6.13	6.33	6.50	6.69	6.90	7.16	7.51	7.67	7.95
40.0	6.75	6.97	7.16	7.34	7.53	7.77	8.06	8.20	8.44
45.0	7.40	7.65	7.85	8.04	8.22	8.43	8.68	8.80	9.01
50.0		8.35	8.59	8.78	8.96	9.15	9.37	9.47	9.65
55.0		9.08	9.35	9.56	9.75	9.93	10.10	10.20	10.35
60.0			10.15	10.40	10.55	10.75	10.95	11.00	11.15

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	10.21	10.25	10.35	10.53					
15.0	10.64	10.72	10.87	11.07	11.35				
20.0	11.05	11.18	11.36	11.59	11.89	12.26			
25.0	11.49	11.65	11.86	12.11	12.42	12.79	13.24		
30.0	11.97	12.17	12.39	12.66	12.97	13.35	13.78	13.98	14.30
35.0	12.55	12.76	13.00	13.27	13.59	13.95	14.37	14.56	14.86
40.0	13.23	13.46	13.71	13.98	14.29	14.63	15.03	15.20	15.48
45.0	14.06	14.30	14.55	14.81	15.10	15.43	15.79	15.95	16.21
50.0		15.31	15.55	15.80	16.07	16.36	16.69	16.83	17.06
55.0		16.52	16.75	16.98	17.21	17.47	17.75	17.87	18.07
60.0			18.17	18.37	18.57	18.78	19.01	19.11	19.27

50 Hz

ZB75KCE-TWD

R404A Dew Point

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	82.90	102.50	125.50	153.50					
15.0	82.50	102.00	125.00	152.50	184.50				
20.0	81.90	101.00	124.00	151.00	183.00	220.00			
25.0	81.20	100.50	123.00	150.00	181.50	218.00	262.00		
30.0	80.50	99.50	122.00	148.50	179.50	216.00	259.00	278.00	310.00
35.0	79.60	98.40	120.50	146.50	177.50	214.00	256.00	276.00	307.00
40.0	78.50	97.10	119.00	144.50	175.00	211.00	254.00	273.00	304.00
45.0	77.40	95.80	117.50	142.50	172.50	208.00	250.00	269.00	301.00
50.0		94.30	115.50	140.50	170.00	205.00	247.00	266.00	298.00
55.0		92.70	113.50	138.00	167.50	202.00	244.00	263.00	295.00
60.0			112.00	136.00	165.00	200.00	242.00	262.00	294.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	28.8
Length/Width, mm	316/357
Height, mm	525
Net Weight, kg	91
Gross Weight, kg	97
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	4.14
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	220 x 220 (22.4)
Sound Pressure @ 1m (MT), dBA	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	73
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	19.8
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	21.7
Locked Rotor Current, A	127
Winding Resistance, ohm	1.02
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Sound Attenuation	Sound Shell (10dBA)
Crankcase Heater	49 W External
Oil Control System	ALCO Trax-Oil OM3
Mounting Grommets	Hard Mounts for Paralleling

### **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>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWD	460 V / 3~ / 60 Hz	460		Y	1.04