



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return

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	5.95	7.33	8.96	10.85					
15.0	5.68	7.00	8.55	10.35	12.40				
20.0	5.39	6.65	8.12	9.81	11.75	14.00			
25.0	5.08	6.27	7.66	9.27	11.10	13.20	15.60		
30.0	4.76	5.88	7.19	8.70	10.45	12.45	14.65	15.65	17.20
35.0	4.42	5.47	6.69	8.11	9.75	11.60	13.75	14.65	16.10
40.0	4.07	5.04	6.18	7.50	9.03	10.75	12.75	13.60	15.00
45.0	3.70	4.59	5.64	6.87	8.28	9.91	11.75	12.55	13.85
50.0		4.13	5.09	6.21	7.51	9.01	10.75	11.50	12.70
55.0			4.52	5.54	6.72	8.10	9.68	10.35	11.50
60.0				4.84	5.91	7.16	8.60	9.23	10.25

50 Hz

ZB30KCE-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	1.51	1.50	1.50	1.50					
15.0	1.69	1.69	1.68	1.68	1.67				
20.0	1.90	1.89	1.88	1.88	1.86	1.86			
25.0	2.13	2.12	2.11	2.10	2.09	2.08	2.08		
30.0	2.39	2.38	2.37	2.36	2.34	2.33	2.32	2.31	2.31
35.0	2.68	2.68	2.66	2.65	2.63	2.61	2.59	2.59	2.58
40.0	3.02	3.01	3.00	2.98	2.95	2.93	2.91	2.90	2.89
45.0	3.39	3.39	3.37	3.35	3.32	3.30	3.27	3.26	3.25
50.0		3.81	3.79	3.77	3.74	3.71	3.68	3.67	3.65
55.0			4.26	4.24	4.21	4.17	4.14	4.12	4.10
60.0				4.76	4.73	4.69	4.65	4.63	4.61

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	5.08	5.07	5.07	5.07					
15.0	5.27	5.27	5.27	5.27	5.27				
20.0	5.49	5.49	5.49	5.49	5.49	5.49			
25.0	5.75	5.76	5.76	5.76	5.76	5.76	5.75		
30.0	6.06	6.08	6.08	6.08	6.08	6.07	6.06	6.05	6.05
35.0	6.44	6.46	6.47	6.47	6.46	6.44	6.42	6.42	6.40
40.0	6.90	6.92	6.93	6.92	6.91	6.89	6.86	6.85	6.83
45.0	7.44	7.46	7.47	7.46	7.45	7.42	7.38	7.37	7.34
50.0		8.10	8.11	8.10	8.08	8.04	8.00	7.98	7.94
55.0			8.85	8.84	8.81	8.77	8.72	8.69	8.65
60.0				9.70	9.67	9.62	9.55	9.52	9.47

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	33.40	41.50	50.90	62.00					
15.0	33.30	41.30	50.70	61.70	74.60				
20.0	33.00	41.00	50.30	61.30	74.20	89.10			
25.0	32.70	40.60	49.90	60.80	73.60	88.50	106.00		
30.0	32.20	40.00	49.30	60.10	72.90	87.80	105.00	113.00	125.50
35.0	31.60	39.30	48.50	59.30	72.00	86.90	104.50	112.00	124.50
40.0	30.90	38.50	47.60	58.30	71.00	85.80	103.50	111.00	124.00
45.0	30.00	37.60	46.50	57.20	69.80	84.70	102.00	110.00	123.00
50.0		36.40	45.30	55.90	68.50	83.40	101.00	109.00	122.50
55.0			43.90	54.40	67.00	82.10	100.00	108.50	121.50
60.0				52.90	65.60	81.00	99.50	108.00	122.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	11.7
Length/Width, mm	242/242
Height, mm	438
Net Weight, kg	35.4
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 (MT), dBA	59
Sound Power (MT), dBA	70
Sound Power with Sound Shell (MT), dBA	65
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	4.30
High Side PS gauge, bar	32
Low Side PS gauge, bar	21
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	10.3
Locked Rotor Current, A	49.3
Winding Resistance, ohm	3.7
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
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
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