



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	
25.0	8.17	11.20	14.85	19.20	24.30	30.40	37.50	45.70	49.30	55.20				
30.0	7.07	10.05	13.60	17.80	22.80	28.70	35.50	43.50	47.00	52.70	57.80	63.20		
35.0		8.86	12.30	16.40	21.20	26.90	33.50	41.20	44.60	50.10	55.00	60.30		
40.0			10.95	14.85	19.50	24.90	31.30	38.70	42.00	47.30	52.00	57.10	68.30	
45.0				13.30	17.70	22.90	29.00	36.10	39.30	44.40	48.90	53.80	64.60	
50.0					15.90	20.80	26.70	33.40	36.50	41.30	45.70	50.30	60.70	
55.0						18.70	24.20	30.60	33.50	38.10	42.30	46.70	56.60	
60.0							21.70	27.70	30.40	34.80	38.80	43.00	52.40	
65.0								24.70	27.30	31.40	35.10	39.10	48.00	

50 Hz

ZR160KRE-TFD

R407C Dew Point

Cond °C	Power, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	5.46	5.54	5.61	5.68	5.76	5.84	5.94	6.07	6.13	6.23			
30.0	6.12	6.22	6.30	6.37	6.45	6.53	6.62	6.73	6.78	6.87	6.95	7.04	
35.0		6.98	7.07	7.15	7.22	7.29	7.37	7.46	7.50	7.58	7.65	7.72	
40.0			7.95	8.03	8.09	8.15	8.21	8.29	8.32	8.38	8.43	8.49	8.64
45.0				9.04	9.09	9.14	9.18	9.23	9.26	9.29	9.33	9.38	9.48
50.0					10.25	10.30	10.30	10.30	10.35	10.35	10.35	10.40	10.45
55.0						11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60
60.0							13.10	13.05	13.05	13.00	13.00	12.95	12.95
65.0								14.70	14.70	14.65	14.60	14.55	14.50

Cond °C	Current at 400 V, A												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	13.54	13.56	13.58	13.61	13.66	13.74	13.86	14.04	14.13	14.28			
30.0	14.20	14.29	14.35	14.40	14.46	14.53	14.62	14.74	14.81	14.92	15.02	15.15	
35.0		15.06	15.17	15.26	15.33	15.40	15.47	15.55	15.59	15.66	15.73	15.81	
40.0			16.09	16.22	16.32	16.39	16.45	16.50	16.53	16.57	16.61	16.65	16.77
45.0				17.33	17.46	17.55	17.61	17.65	17.66	17.67	17.68	17.70	17.74
50.0					18.81	18.93	18.99	19.02	19.02	19.02	19.01	19.00	18.97
55.0						20.56	20.64	20.67	20.67	20.65	20.62	20.59	20.51
60.0							22.60	22.63	22.63	22.61	22.57	22.52	22.39
65.0								24.96	24.96	24.93	24.89	24.83	24.67

Cond °C	Suction Mass Flow, g/s												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	47.30	63.80	83.00	105.50	132.00	162.00	197.50	237.00	255.00	283.00			
30.0	42.90	59.90	79.60	102.50	129.00	160.00	195.00	236.00	253.00	281.00	307.00	333.00	
35.0		55.30	75.50	98.70	125.50	156.50	192.00	233.00	251.00	279.00	305.00	331.00	
40.0			70.70	94.20	121.50	152.50	188.50	230.00	248.00	276.00	302.00	329.00	388.00
45.0				89.00	116.50	148.00	184.00	225.00	244.00	272.00	298.00	326.00	385.00
50.0					110.50	142.50	179.00	221.00	239.00	268.00	294.00	321.00	382.00
55.0						136.00	172.50	215.00	233.00	262.00	289.00	316.00	377.00
60.0							165.50	208.00	226.00	256.00	283.00	311.00	372.00
65.0								200.00	219.00	249.00	276.00	304.00	367.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	36.4
Length/Width, mm	281/284
Height, mm	552
Net Weight, kg	64.9
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.25
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 (HT), dBA	68
Sound Power (HT), dBA	79
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	12.8
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	53
Low Side TS Min., °C	-35
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	30
Locked Rotor Current, A	140
Winding Resistance, ohm	1.1
Default Enclosure Class	IP 21/65

### **ACCESSORIES INCLUDED**

Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve
Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Enclosure Class	IP21
Oil Charge	

### **ACCESSORIES OPTIONAL**

<p>Mounting Grommets          Adapter Kit          Oil Control System          Enclosure Class          Mounting Grommets          Sound Attenuation          Crankcase Heater</p>	<p>Rubber Grommet For Single          R1"1/4 -B 1"1/8 For TPTL for          Parallel Operation          ALCO Trax-Oil OM3          IP 65          Hard Mounts for Paralleling          Sound Shell (12dBA)          67 W External</p>
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### **MOTOR OPTIONS**

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