



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	6.59	8.48	10.75	13.50	16.70	20.60	25.00	30.20	32.50	36.20				
30.0	6.06	7.92	10.15	12.80	15.90	19.60	23.90	29.00	31.20	34.70	38.00	41.40		
35.0		7.34	9.49	12.05	15.05	18.60	22.80	27.60	29.70	33.20	36.20	39.50		
40.0			8.81	11.25	14.15	17.55	21.50	26.10	28.20	31.50	34.40	37.60	44.60	
45.0				10.45	13.20	16.45	20.20	24.60	26.60	29.70	32.50	35.60	42.20	
50.0					12.20	15.25	18.85	23.00	24.90	27.90	30.50	33.40	39.80	
55.0						14.05	17.40	21.40	23.10	25.90	28.50	31.20	37.20	
60.0							15.95	19.65	21.30	23.90	26.30	28.90	34.60	
65.0								17.85	19.35	21.80	24.10	26.50	31.80	

50 Hz

ZR108KCE-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	3.65	3.74	3.80	3.84	3.89	3.96	4.06	4.23	4.31	4.46			
30.0	4.07	4.19	4.26	4.30	4.34	4.38	4.45	4.56	4.62	4.74	4.85	4.99	
35.0		4.67	4.77	4.82	4.85	4.88	4.92	5.00	5.04	5.11	5.20	5.30	
40.0			5.32	5.39	5.43	5.46	5.48	5.52	5.55	5.60	5.65	5.72	5.92
45.0				6.02	6.08	6.11	6.12	6.14	6.16	6.19	6.22	6.27	6.40
50.0					6.79	6.84	6.85	6.86	6.87	6.88	6.90	6.93	7.01
55.0						7.64	7.67	7.68	7.68	7.68	7.69	7.70	7.75
60.0							8.58	8.59	8.60	8.59	8.59	8.60	8.62
65.0								9.61	9.61	9.61	9.61	9.61	9.61

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	9.42	9.46	9.46	9.45	9.47	9.52	9.64	9.86	9.97	10.19			
30.0	9.83	9.95	10.01	10.03	10.03	10.05	10.11	10.23	10.30	10.44	10.59	10.76	
35.0		10.40	10.53	10.60	10.63	10.64	10.66	10.71	10.75	10.82	10.91	11.02	
40.0			11.05	11.19	11.26	11.29	11.30	11.31	11.32	11.35	11.39	11.45	11.62
45.0				11.81	11.95	12.02	12.04	12.04	12.03	12.03	12.04	12.05	12.13
50.0					12.71	12.85	12.91	12.91	12.90	12.89	12.87	12.86	12.86
55.0						13.78	13.91	13.95	13.95	13.93	13.91	13.88	13.82
60.0							15.05	15.15	15.17	15.17	15.15	15.12	15.04
65.0								16.55	16.59	16.62	16.62	16.60	16.52

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	38.10	48.20	60.20	74.20	90.70	110.00	132.00	157.00	168.00	185.50			
30.0	36.70	47.20	59.30	73.50	90.10	109.50	131.50	156.50	168.00	185.50	201.00	218.00	
35.0		45.90	58.20	72.60	89.30	108.50	130.50	156.00	167.00	185.00	201.00	217.00	
40.0			56.90	71.40	88.10	107.50	129.50	155.00	166.00	184.00	199.50	217.00	253.00
45.0				69.90	86.70	106.00	128.00	153.50	164.50	182.50	198.50	215.00	252.00
50.0					85.00	104.50	126.50	152.00	163.00	180.50	196.50	213.00	250.00
55.0						102.00	124.50	149.50	160.50	178.50	194.50	211.00	248.00
60.0							122.00	147.00	158.00	176.00	192.00	209.00	246.00
65.0								144.50	155.50	173.00	189.00	206.00	243.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	25.0
Length/Width, mm	281/285
Height, mm	533
Net Weight, kg	59.9
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	63
Sound Power (HT), dBA	74
Sound Power with Sound Shell (HT), dBA	66
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
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	17.7
Locked Rotor Current, A	111
Winding Resistance, ohm	1.37
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

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

### ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Mounting Grommets	Rubber Grommet For Single
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Oil Control System	Parallel Operation
Sound Attenuation	ALCO Trax-Oil OM3 Sound Shell (12dBA)

### MOTOR OPTIONS

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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
TW7	380 V / 3~ / 60 Hz	380		Y	1.26
TFE	575 V / 3~ / 60 Hz	575		Y	0.80
TF7	380 V / 3~ / 60 Hz	380		Y	1.26
TW5	200-230 V / 3~ / 60 Hz	230		Y	2.30