



Minimum Evaporating Temp. With:

10 K Suction Superheat

Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	9.02	11.30	14.05	17.35	21.30	23.20			
25.0	8.62	10.80	13.45	16.55	20.30	22.00	24.80		
30.0	8.21	10.35	12.85	15.80	19.35	21.00	23.60	26.00	28.60
35.0	7.78	9.84	12.25	15.05	18.45	19.95	22.40	24.70	27.20
40.0	7.31	9.33	11.65	14.35	17.50	18.95	21.30	23.40	25.80
45.0	6.77	8.76	11.00	13.60	16.60	17.95	20.20	22.20	24.40
50.0		8.14	10.30	12.80	15.70	16.95	19.05	21.00	23.00
55.0		7.44	9.58	11.95	14.70	15.95	17.90	19.70	21.70
60.0			8.76	11.05	13.70	14.85	16.75	18.45	20.30
65.0			7.84	10.10	12.60	13.70	15.50	17.10	18.85
70.0				9.02	11.45	12.50	14.20	15.70	17.35
75.0				7.83	10.15	11.15	12.75	14.20	15.75

50 Hz

ZR108KRE-TFD

R134a

Cond °C	Power, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	2.52	2.55	2.58	2.62	2.68	2.71			
25.0	2.77	2.80	2.83	2.86	2.91	2.93	2.97		
30.0	3.05	3.09	3.11	3.14	3.18	3.19	3.23	3.26	3.30
35.0	3.35	3.40	3.43	3.46	3.49	3.50	3.52	3.55	3.58
40.0	3.69	3.75	3.79	3.82	3.84	3.85	3.87	3.89	3.91
45.0	4.06	4.14	4.19	4.23	4.25	4.25	4.27	4.28	4.29
50.0		4.57	4.64	4.68	4.70	4.71	4.72	4.72	4.73
55.0		5.05	5.13	5.18	5.21	5.22	5.22	5.23	5.24
60.0			5.67	5.74	5.77	5.78	5.79	5.80	5.80
65.0			6.27	6.35	6.40	6.41	6.42	6.43	6.43
70.0				7.03	7.09	7.10	7.12	7.13	7.13
75.0				7.76	7.84	7.87	7.89	7.90	7.90

Cond °C	Current at 400 V, A								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	8.18	8.23	8.30	8.41	8.57	8.66			
25.0	8.25	8.28	8.33	8.40	8.51	8.57	8.68		
30.0	8.39	8.42	8.45	8.49	8.56	8.60	8.68	8.75	8.85
35.0	8.61	8.65	8.67	8.69	8.73	8.75	8.80	8.85	8.92
40.0	8.89	8.95	8.98	8.99	9.01	9.02	9.04	9.07	9.12
45.0	9.24	9.33	9.37	9.38	9.39	9.39	9.40	9.42	9.44
50.0		9.77	9.84	9.87	9.88	9.88	9.88	9.88	9.89
55.0		10.29	10.39	10.44	10.46	10.46	10.46	10.45	10.45
60.0			11.01	11.10	11.14	11.14	11.14	11.14	11.13
65.0			11.70	11.83	11.90	11.92	11.93	11.93	11.92
70.0				12.64	12.75	12.78	12.81	12.82	12.82
75.0				13.52	13.68	13.73	13.78	13.80	13.82

Cond °C	Suction Mass Flow, g/s								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	53.10	65.20	79.60	96.60	116.50	125.50			
25.0	53.00	65.10	79.30	96.00	115.50	124.50	139.00		
30.0	52.80	65.10	79.20	95.60	115.00	123.50	137.50	150.50	164.00
35.0	52.50	65.00	79.10	95.40	114.50	123.00	136.50	149.00	162.50
40.0	51.90	64.80	79.00	95.30	114.00	122.50	136.00	148.00	161.50
45.0	50.90	64.30	78.80	95.10	114.00	122.00	135.50	147.50	160.50
50.0		63.30	78.30	94.80	113.50	121.50	135.00	146.50	159.50
55.0		61.70	77.20	94.10	113.00	121.00	134.00	146.00	158.50
60.0			75.50	92.90	112.00	120.00	133.50	145.00	158.00
65.0			72.90	91.00	110.50	119.00	132.00	144.00	156.50
70.0				88.10	108.50	117.00	130.50	142.50	155.50
75.0				83.80	105.50	114.00	128.00	140.50	153.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	24.9
Length/Width, mm	281/284
Height, mm	533
Net Weight, kg	59.9
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.38
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 Conditions (HT, Temperatures:	5 / 50 / 15 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	12.9
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	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	20
Locked Rotor Current, A	111
Winding Resistance, ohm	1.47
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

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

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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04