



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	7.65	9.90	12.55	15.70	19.40	23.80	28.90	34.70	37.30	41.50			
30.0	6.94	9.20	11.85	14.95	18.60	22.80	27.80	33.50	36.00	40.10	43.70	47.60	
35.0		8.41	11.00	14.05	17.60	21.70	26.50	32.10	34.50	38.50	42.00	45.80	
40.0			10.10	13.10	16.50	20.50	25.20	30.50	32.90	36.70	40.10	43.70	51.70
45.0				12.00	15.30	19.20	23.70	28.80	31.10	34.70	38.00	41.50	49.20
50.0					14.00	17.70	22.00	27.00	29.10	32.60	35.80	39.10	46.50
55.0						16.15	20.20	24.90	27.00	30.40	33.40	36.60	43.60
60.0							18.30	22.80	24.80	27.90	30.80	33.80	40.60
65.0								20.50	22.40	25.40	28.10	30.90	37.30

50 Hz

ZR125KCE-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	4.30	4.38	4.44	4.49	4.53	4.60	4.69	4.83	4.90	5.03			
30.0	4.79	4.90	4.97	5.02	5.05	5.10	5.16	5.26	5.32	5.41	5.51	5.63	
35.0		5.46	5.55	5.61	5.65	5.68	5.72	5.79	5.83	5.90	5.97	6.06	
40.0			6.20	6.28	6.32	6.35	6.38	6.43	6.45	6.50	6.55	6.62	6.79
45.0				7.03	7.09	7.12	7.15	7.18	7.19	7.23	7.26	7.31	7.43
50.0					7.96	8.00	8.03	8.05	8.06	8.08	8.11	8.14	8.23
55.0						9.01	9.04	9.07	9.07	9.08	9.10	9.12	9.18
60.0							10.20	10.20	10.25	10.25	10.25	10.25	10.30
65.0								11.55	11.55	11.55	11.55	11.55	11.60

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	10.53	10.61	10.67	10.71	10.76	10.82	10.91	11.05	11.13	11.26			
30.0	10.99	11.10	11.18	11.22	11.26	11.31	11.38	11.48	11.54	11.64	11.74	11.86	
35.0		11.69	11.79	11.85	11.89	11.93	11.98	12.05	12.09	12.17	12.25	12.34	
40.0			12.52	12.61	12.66	12.69	12.73	12.78	12.81	12.87	12.93	13.00	13.19
45.0				13.51	13.58	13.63	13.66	13.70	13.72	13.76	13.80	13.85	14.00
50.0					14.69	14.74	14.78	14.81	14.82	14.85	14.88	14.92	15.02
55.0						16.06	16.11	16.14	16.15	16.17	16.19	16.22	16.29
60.0							17.67	17.71	17.72	17.74	17.75	17.77	17.82
65.0								19.54	19.55	19.57	19.58	19.60	19.63

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	44.30	56.30	70.30	86.50	105.50	127.00	152.00	180.50	193.00	213.00			
30.0	42.00	54.80	69.30	85.90	105.00	127.00	152.50	181.50	194.00	214.00	232.00	251.00	
35.0		52.50	67.60	84.80	104.50	127.00	152.50	181.50	194.00	215.00	233.00	252.00	
40.0			65.20	82.90	103.00	125.50	151.50	181.00	194.00	214.00	233.00	252.00	294.00
45.0				80.20	100.50	124.00	150.00	180.00	192.50	213.00	232.00	251.00	294.00
50.0					97.60	121.00	147.50	177.50	191.00	212.00	230.00	250.00	293.00
55.0						117.50	144.50	175.00	188.00	209.00	228.00	248.00	291.00
60.0							140.00	171.00	184.00	206.00	224.00	245.00	288.00
65.0								166.00	179.50	201.00	220.00	241.00	285.00

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

Displacement @ 50 Hz, m <sup>3</sup> /h	29.1
Length/Width, mm	264/285
Height, mm	533
Net Weight, kg	61.2
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	19.6
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

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

### **ACCESSORIES OPTIONAL**

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