



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													
	-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	11.55	15.20	19.30	24.00	29.50	35.90	43.50	52.40	56.30	62.70				
30.0	9.91	13.85	18.15	22.90	28.40	34.70	42.10	50.70	54.50	60.60	66.20	72.10		
35.0		12.05	16.55	21.50	27.00	33.30	40.50	48.70	52.40	58.30	63.60	69.30		
40.0			14.60	19.70	25.20	31.50	38.50	46.50	50.10	55.70	60.80	66.30	78.30	
45.0				17.45	23.10	29.30	36.20	44.00	47.40	52.90	57.80	63.00	74.50	
50.0					20.50	26.70	33.60	41.20	44.50	49.80	54.50	59.50	70.50	
55.0						23.80	30.50	38.00	41.20	46.30	50.80	55.60	66.20	
60.0							27.10	34.40	37.50	42.50	46.80	51.50	61.50	
65.0								30.40	33.50	38.20	42.50	46.90	56.50	

50 Hz

ZRT188KCE-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	6.63	6.79	6.91	7.00	7.06	7.09	7.11	7.12	7.12	7.12			
30.0	7.44	7.61	7.74	7.84	7.90	7.94	7.95	7.95	7.95	7.94	7.93	7.93	
35.0		8.55	8.69	8.79	8.85	8.88	8.89	8.88	8.87	8.85	8.84	8.82	
40.0			9.78	9.87	9.93	9.96	9.95	9.93	9.91	9.88	9.86	9.83	9.77
45.0				11.15	11.20	11.20	11.20	11.15	11.10	11.05	11.05	11.00	10.90
50.0					12.65	12.65	12.60	12.50	12.50	12.45	12.35	12.30	12.20
55.0						14.30	14.25	14.15	14.10	14.00	13.95	13.85	13.70
60.0							16.15	16.00	15.95	15.85	15.75	15.65	15.45
65.0								18.15	18.05	17.95	17.85	17.70	17.45

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	17.98	18.09	18.19	18.26	18.31	18.34	18.36	18.37	18.37	18.37			
30.0	18.62	18.76	18.87	18.95	19.01	19.04	19.06	19.06	19.06	19.05	19.04	19.03	
35.0		19.63	19.75	19.83	19.89	19.93	19.93	19.92	19.91	19.89	19.87	19.85	
40.0			20.87	20.95	21.01	21.03	21.03	21.00	20.98	20.95	20.92	20.88	20.79
45.0				22.35	22.40	22.41	22.39	22.34	22.31	22.26	22.21	22.15	22.03
50.0					24.11	24.10	24.05	23.97	23.93	23.86	23.79	23.72	23.55
55.0						26.14	26.07	25.95	25.90	25.80	25.71	25.62	25.40
60.0							28.48	28.32	28.25	28.13	28.01	27.89	27.62
65.0								31.12	31.03	30.88	30.74	30.59	30.26

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	67.00	86.50	108.00	132.00	160.00	192.00	229.00	272.00	291.00	322.00			
30.0	60.10	82.40	106.00	132.00	161.00	193.50	231.00	274.00	293.00	324.00	351.00	380.00	
35.0		75.40	101.50	129.50	160.00	194.00	232.00	276.00	295.00	325.00	352.00	381.00	
40.0			94.30	124.50	157.00	192.50	232.00	276.00	295.00	325.00	353.00	382.00	445.00
45.0				117.00	151.50	189.00	230.00	275.00	294.00	325.00	352.00	381.00	445.00
50.0					143.00	182.50	225.00	271.00	291.00	323.00	350.00	380.00	443.00
55.0						173.00	218.00	266.00	287.00	319.00	347.00	377.00	441.00
60.0							207.00	258.00	279.00	312.00	341.00	372.00	437.00
65.0								246.00	268.00	303.00	333.00	365.00	432.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	44.2
Length/Width, mm	635/312
Height, mm	495
Net Weight, kg	122
Gross Weight, kg	131
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 3/8
Oil Quantity, l	5.03
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	546 x 190.5 (22.4)
Sound Pressure @ 1m (HT), dBA	67
Sound Power (HT), dBA	78
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	2 x 15.9
Locked Rotor Current, A	2 x 95
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Enclosure Class	IP21
Oil Charge	
Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Mounting Grommets	Rubber Grommet For Single
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve

ACCESSORIES OPTIONAL

<p>Mounting Grommets Oil Control System Sound Attenuation Adapter Kit Crankcase Heater Enclosure Class</p>	<p>Hard Mounts for Paralleling ALCO Trax-Oil OM3 Sound Shell (12dBA) R1"1/4 -B 1"1/8 For TPTL for Parallel Operation 90 W External IP66 With Molded Plug</p>
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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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09