



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
21.0	20.50	25.80	32.10	39.60	48.70	52.80			
25.0	19.80	25.00	31.10	38.40	47.10	51.00	57.40		
30.0	18.85	23.90	29.80	36.80	45.10	48.90	54.90	60.50	
35.0	17.75	22.70	28.50	35.20	43.10	46.60	52.40	57.70	63.40
40.0	16.50	21.40	27.00	33.40	41.00	44.40	49.90	54.90	60.30
45.0	15.05	19.90	25.30	31.60	38.80	42.00	47.20	52.00	57.10
50.0		18.25	23.60	29.60	36.50	39.50	44.50	49.00	53.90
55.0		16.40	21.60	27.40	34.00	37.00	41.70	45.90	50.50
60.0			19.50	25.10	31.50	34.30	38.70	42.80	47.10
65.0			17.20	22.70	28.80	31.40	35.70	39.50	43.60
70.0				20.00	25.90	28.40	32.40	36.10	40.00
74.1				17.70	23.40	25.80	29.70	33.10	36.80

50 Hz

ZRT250KCE-TFD

R134a

Cond °C	Power, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
21.0	5.94	5.99	6.04	6.10	6.22	6.28			
25.0	6.44	6.50	6.55	6.60	6.69	6.74	6.84		
30.0	7.09	7.17	7.23	7.27	7.34	7.38	7.45	7.53	
35.0	7.79	7.91	7.97	8.02	8.07	8.10	8.15	8.21	8.29
40.0	8.57	8.71	8.80	8.85	8.89	8.91	8.95	9.00	9.06
45.0	9.42	9.61	9.72	9.78	9.82	9.84	9.87	9.90	9.94
50.0		10.60	10.75	10.80	10.85	10.90	10.90	10.90	10.95
55.0		11.70	11.85	12.00	12.05	12.05	12.05	12.10	12.10
60.0			13.15	13.25	13.35	13.35	13.40	13.40	13.40
65.0			14.55	14.70	14.80	14.85	14.85	14.85	14.85
70.0				16.30	16.45	16.45	16.50	16.50	16.50
74.1				17.70	17.90	17.90	17.95	18.00	18.00

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
21.0	18.41	18.70	18.98	19.23	19.40	19.45			
25.0	18.73	18.97	19.22	19.45	19.63	19.68	19.72		
30.0	19.26	19.43	19.64	19.85	20.02	20.07	20.13	20.15	
35.0	19.95	20.06	20.22	20.40	20.56	20.62	20.68	20.72	20.73
40.0	20.83	20.87	20.97	21.11	21.26	21.32	21.39	21.43	21.46
45.0	21.90	21.86	21.91	22.01	22.14	22.19	22.27	22.32	22.36
50.0		23.06	23.04	23.10	23.21	23.25	23.33	23.38	23.43
55.0		24.48	24.40	24.40	24.48	24.52	24.59	24.65	24.70
60.0			25.98	25.93	25.97	26.00	26.06	26.12	26.18
65.0			27.80	27.69	27.69	27.71	27.76	27.82	27.88
70.0				29.71	29.66	29.67	29.71	29.75	29.81
74.1				31.56	31.47	31.47	31.49	31.53	31.59

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
21.0	121.50	150.00	183.00	222.00	268.00	288.00			
25.0	121.50	150.50	183.50	223.00	268.00	288.00	321.00		
30.0	121.00	150.50	184.00	223.00	268.00	288.00	320.00	349.00	
35.0	120.00	150.00	184.00	223.00	268.00	287.00	319.00	348.00	379.00
40.0	117.00	148.50	183.00	222.00	267.00	287.00	318.00	347.00	377.00
45.0	113.00	146.00	181.50	221.00	266.00	285.00	317.00	345.00	375.00
50.0		142.00	178.50	219.00	264.00	283.00	315.00	343.00	373.00
55.0		136.00	174.50	216.00	261.00	281.00	312.00	340.00	370.00
60.0			168.00	211.00	257.00	277.00	309.00	337.00	367.00
65.0			160.00	204.00	252.00	272.00	304.00	333.00	363.00
70.0				195.50	245.00	266.00	299.00	327.00	358.00
74.1				186.50	238.00	259.00	293.00	322.00	353.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	57.6
Length/Width, mm	635/312
Height, mm	577
Net Weight, kg	129
Gross Weight, kg	141
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 3/8
Oil Quantity, l	6.51
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	63
Sound Power (HT), dBA	74
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
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	2 x 19.6
Locked Rotor Current, A	2 x 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
Mounting Grommets	Rubber Grommet For Single
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve

### **ACCESSORIES OPTIONAL**

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

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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