



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	14.80	18.90	23.60	29.00	35.30	38.10			
25.0	14.25	18.40	23.10	28.40	34.60	37.40	41.90		
30.0	13.30	17.50	22.20	27.50	33.60	36.30	40.60	44.60	
35.0	12.15	16.40	21.10	26.30	32.20	34.90	39.10	42.90	47.00
40.0	10.80	15.10	19.70	24.80	30.70	33.20	37.30	41.10	45.00
45.0	9.27	13.55	18.15	23.20	28.90	31.40	35.40	39.00	42.80
50.0		11.85	16.40	21.40	26.90	29.30	33.20	36.70	40.40
55.0		10.05	14.55	19.40	24.80	27.10	30.90	34.20	37.80
60.0			12.50	17.25	22.50	24.70	28.30	31.60	35.00
65.0			10.40	15.00	20.10	22.20	25.70	28.80	32.00
70.0				12.65	17.55	19.60	22.90	25.80	29.00
74.1				10.70	15.40	17.40	20.60	23.40	26.40

50 Hz

ZRT188KCE-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	4.69	4.74	4.78	4.81	4.86	4.89			
25.0	5.02	5.08	5.12	5.15	5.20	5.22	5.27		
30.0	5.50	5.56	5.60	5.63	5.67	5.69	5.72	5.77	
35.0	6.05	6.12	6.16	6.18	6.21	6.23	6.26	6.29	6.34
40.0	6.71	6.77	6.81	6.83	6.85	6.86	6.89	6.91	6.94
45.0	7.47	7.54	7.57	7.59	7.60	7.60	7.61	7.63	7.65
50.0		8.42	8.45	8.46	8.46	8.45	8.46	8.46	8.48
55.0		9.44	9.46	9.46	9.44	9.44	9.43	9.43	9.43
60.0			10.60	10.60	10.55	10.55	10.55	10.55	10.50
65.0			11.90	11.90	11.85	11.85	11.80	11.80	11.75
70.0				13.35	13.30	13.30	13.25	13.20	13.15
74.1				14.70	14.65	14.60	14.55	14.50	14.45

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	16.90	17.00	17.12	17.28	17.52	17.64			
25.0	16.97	17.04	17.12	17.24	17.41	17.50	17.67		
30.0	17.17	17.22	17.27	17.34	17.45	17.51	17.62	17.75	
35.0	17.52	17.56	17.59	17.61	17.67	17.70	17.78	17.86	17.97
40.0	18.02	18.06	18.07	18.07	18.08	18.10	18.13	18.18	18.25
45.0	18.67	18.72	18.73	18.71	18.69	18.69	18.70	18.72	18.75
50.0		19.55	19.56	19.54	19.50	19.49	19.47	19.47	19.48
55.0		20.55	20.58	20.56	20.52	20.50	20.47	20.45	20.43
60.0			21.79	21.79	21.74	21.72	21.68	21.65	21.62
65.0			23.18	23.21	23.18	23.16	23.12	23.08	23.04
70.0				24.84	24.84	24.82	24.79	24.75	24.71
74.1				26.34	26.37	26.36	26.33	26.30	26.26

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	87.80	110.00	134.50	162.50	194.50	208.00			
25.0	87.50	111.00	136.00	165.00	197.00	211.00	234.00		
30.0	85.70	110.50	137.00	166.50	199.50	214.00	237.00	257.00	
35.0	82.20	108.50	136.00	166.50	200.00	215.00	238.00	259.00	281.00
40.0	76.90	105.00	134.00	165.00	199.50	215.00	238.00	259.00	282.00
45.0	69.70	99.50	130.00	162.50	198.00	213.00	237.00	259.00	281.00
50.0		92.30	124.50	158.50	195.00	210.00	235.00	257.00	280.00
55.0		83.10	117.00	152.50	190.00	206.00	231.00	253.00	277.00
60.0			108.00	145.00	184.00	200.00	226.00	248.00	272.00
65.0			96.50	135.50	176.00	193.00	219.00	242.00	267.00
70.0				124.00	166.00	184.00	211.00	235.00	259.00
74.1				112.50	156.50	175.00	203.00	227.00	253.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /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	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
Refrigerant's GWP	1430
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**

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

### **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