



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	10.30	12.95	16.15	19.95	24.50	26.60			
25.0	9.90	12.50	15.55	19.20	23.50	25.50	28.70		
30.0	9.43	11.95	14.90	18.40	22.60	24.40	27.50	30.20	33.20
35.0	8.88	11.35	14.25	17.60	21.50	23.30	26.20	28.80	31.70
40.0	8.25	10.70	13.50	16.70	20.50	22.20	24.90	27.40	30.10
45.0	7.52	9.95	12.65	15.80	19.40	21.00	23.60	26.00	28.50
50.0		9.12	11.80	14.80	18.25	19.75	22.30	24.50	26.90
55.0		8.20	10.80	13.70	17.00	18.50	20.80	23.00	25.30
60.0			9.75	12.55	15.75	17.15	19.35	21.40	23.60
65.0			8.60	11.35	14.35	15.70	17.85	19.75	21.80
70.0				10.00	12.95	14.20	16.20	18.05	20.00
75.0				8.60	11.40	12.60	14.50	16.25	18.05

50 Hz

ZR125KCE-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	2.92	2.94	2.96	3.00	3.06	3.09			
25.0	3.22	3.25	3.27	3.30	3.35	3.37	3.42		
30.0	3.54	3.59	3.61	3.64	3.67	3.69	3.73	3.77	3.82
35.0	3.90	3.95	3.99	4.01	4.04	4.05	4.08	4.11	4.15
40.0	4.28	4.36	4.40	4.43	4.45	4.46	4.48	4.50	4.53
45.0	4.71	4.80	4.86	4.89	4.91	4.92	4.93	4.95	4.97
50.0		5.30	5.37	5.41	5.43	5.44	5.45	5.46	5.48
55.0		5.84	5.94	5.99	6.02	6.03	6.03	6.04	6.05
60.0			6.57	6.64	6.67	6.68	6.69	6.70	6.70
65.0			7.26	7.35	7.40	7.42	7.43	7.43	7.44
70.0				8.15	8.21	8.23	8.25	8.25	8.26
75.0				9.02	9.11	9.13	9.15	9.16	9.17

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	9.18	9.33	9.47	9.59	9.68	9.70			
25.0	9.36	9.49	9.61	9.73	9.81	9.84	9.86		
30.0	9.63	9.72	9.82	9.92	10.01	10.04	10.07	10.08	10.07
35.0	9.98	10.03	10.11	10.20	10.28	10.31	10.34	10.36	10.36
40.0	10.41	10.43	10.49	10.56	10.63	10.66	10.69	10.72	10.73
45.0	10.95	10.93	10.95	11.01	11.07	11.10	11.13	11.16	11.18
50.0		11.53	11.52	11.55	11.60	11.63	11.66	11.69	11.72
55.0		12.24	12.20	12.20	12.24	12.26	12.29	12.32	12.35
60.0			12.99	12.96	12.98	13.00	13.03	13.06	13.09
65.0			13.90	13.85	13.84	13.86	13.88	13.91	13.94
70.0				14.85	14.83	14.83	14.85	14.88	14.91
75.0				16.00	15.95	15.94	15.95	15.97	16.00

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	60.60	74.80	91.40	111.00	134.00	144.50			
25.0	60.80	75.20	91.80	111.50	134.00	144.00	160.50		
30.0	60.60	75.30	92.10	111.50	134.00	144.00	160.00	174.50	190.50
35.0	59.90	75.00	92.00	111.50	134.00	143.50	159.50	174.00	189.50
40.0	58.60	74.30	91.60	111.00	133.50	143.50	159.00	173.50	188.50
45.0	56.50	73.00	90.80	110.50	133.00	142.50	158.50	172.50	187.50
50.0		70.90	89.30	109.50	132.00	141.50	157.50	171.50	186.50
55.0		67.90	87.20	108.00	130.50	140.50	156.00	170.00	185.00
60.0			84.10	105.50	128.50	138.50	154.50	168.50	183.50
65.0			79.90	102.00	126.00	136.00	152.00	166.50	181.50
70.0				97.90	122.50	133.00	149.50	163.50	179.00
75.0				92.10	118.00	129.00	145.50	160.50	176.00

### 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 Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
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	1430
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**

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