



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return    — 10 K Suction Superheat    — 5 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
10.0	7.50	9.61	12.00	14.70	17.85	21.40							
15.0	6.71	8.82	11.20	13.90	16.95	20.40	24.40						
20.0	5.99	8.10	10.45	13.10	16.10	19.55	23.40	27.90					
25.0	5.29	7.42	9.77	12.40	15.35	18.70	22.50	26.80	28.70	31.70			
30.0	4.61	6.75	9.08	11.65	14.55	17.85	21.50	25.70	27.50	30.50	33.00	35.80	
35.0		6.05	8.37	10.95	13.80	16.95	20.60	24.60	26.40	29.20	31.80	34.40	
40.0			7.62	10.15	12.95	16.05	19.60	23.50	25.30	28.00	30.40	33.00	38.70
45.0				9.30	12.05	15.10	18.50	22.40	24.00	26.70	29.00	31.50	37.00
50.0					11.05	14.05	17.35	21.10	22.70	25.30	27.60	30.00	35.30
55.0						12.85	16.10	19.70	21.30	23.80	26.00	28.30	33.40
60.0							14.65	18.20	19.70	22.10	24.20	26.50	31.40
65.0								16.45	17.95	20.30	22.30	24.50	29.20

50 Hz

ZR94KCE-TFD

R22

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
10.0	2.28	2.33	2.35	2.36	2.38	2.41							
15.0	2.61	2.67	2.70	2.71	2.73	2.77	2.84						
20.0	2.96	3.02	3.06	3.08	3.10	3.13	3.20	3.30					
25.0	3.32	3.40	3.44	3.46	3.48	3.51	3.57	3.66	3.72	3.81			
30.0	3.73	3.81	3.86	3.88	3.90	3.92	3.97	4.05	4.10	4.18	4.28	4.38	
35.0		4.28	4.32	4.35	4.36	4.38	4.41	4.48	4.52	4.59	4.67	4.77	
40.0			4.85	4.87	4.88	4.88	4.91	4.96	4.99	5.05	5.12	5.21	5.44
45.0				5.46	5.46	5.46	5.47	5.50	5.52	5.57	5.63	5.70	5.90
50.0					6.13	6.11	6.10	6.12	6.13	6.17	6.21	6.27	6.44
55.0						6.86	6.83	6.82	6.83	6.85	6.88	6.93	7.07
60.0							7.66	7.63	7.63	7.63	7.65	7.68	7.79
65.0								8.55	8.54	8.53	8.53	8.54	8.62

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
10.0	6.73	6.78	6.80	6.81	6.82	6.84							
15.0	7.01	7.09	7.13	7.15	7.17	7.20	7.26						
20.0	7.35	7.44	7.49	7.52	7.55	7.58	7.65	7.76					
25.0	7.75	7.85	7.91	7.94	7.97	8.01	8.08	8.19	8.24	8.35			
30.0	8.24	8.34	8.40	8.44	8.47	8.51	8.57	8.67	8.72	8.82	8.92	9.05	
35.0		8.94	9.00	9.03	9.06	9.09	9.14	9.23	9.28	9.37	9.46	9.58	
40.0			9.71	9.74	9.76	9.77	9.81	9.88	9.93	10.01	10.09	10.20	10.47
45.0				10.58	10.58	10.59	10.60	10.66	10.69	10.76	10.83	10.92	11.17
50.0					11.56	11.54	11.54	11.57	11.59	11.64	11.70	11.78	11.99
55.0						12.67	12.64	12.63	12.64	12.68	12.72	12.78	12.96
60.0							13.92	13.88	13.88	13.88	13.91	13.95	14.09
65.0								15.32	15.30	15.29	15.29	15.31	15.41

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
10.0	40.00	50.50	62.40	75.70	90.70	107.50							
15.0	37.00	48.00	60.10	73.60	88.90	106.00	125.50						
20.0	34.10	45.60	58.10	71.90	87.30	104.50	124.00	146.00					
25.0	31.30	43.20	56.10	70.30	86.00	103.50	123.00	145.00	154.50	170.00			
30.0	28.30	40.80	54.20	68.70	84.70	102.50	122.00	144.50	154.00	169.00	182.50	196.50	
35.0		38.10	51.90	66.90	83.20	101.00	121.00	143.50	153.00	168.50	182.00	196.00	
40.0			49.30	64.70	81.40	99.70	120.00	142.50	152.00	167.50	181.00	195.50	226.00
45.0				61.90	79.10	97.80	118.50	141.00	151.00	166.50	180.00	194.50	226.00
50.0					75.90	95.10	116.00	139.00	149.00	164.50	178.50	193.00	224.00
55.0						91.40	113.00	136.00	146.50	162.00	176.00	190.50	222.00
60.0							108.50	132.00	142.50	158.50	172.50	187.50	220.00
65.0								126.50	137.00	153.50	168.00	183.00	216.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	22.1
Length/Width, mm	281/285
Height, mm	476
Net Weight, kg	57.2
Stub Suction, inch	1 1/8
Stub Discharge, inch	7/8
Oil Quantity, l	2.65
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	62
Sound Power (HT), dBA	73
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	10.5
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	15.9
Locked Rotor Current, A	95
Winding Resistance, ohm	1.8
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)
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Oil Control System	Parallel Operation
Mounting Grommets	ALCO Trax-Oil OM3
Crankcase Heater	Rubber Grommet For Single
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