



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	11.40	14.30	17.75	21.80	26.50	31.60							
15.0	10.90	13.70	17.10	21.10	25.70	30.80	36.30						
20.0	10.45	13.05	16.35	20.30	24.80	29.80	35.40	41.40					
25.0	9.97	12.45	15.60	19.40	23.80	28.80	34.20	40.20	42.70	46.70			
30.0	9.52	11.85	14.85	18.50	22.70	27.60	33.00	38.90	41.40	45.30	48.60	52.10	
35.0		11.20	14.00	17.50	21.60	26.30	31.60	37.40	39.90	43.70	47.00	50.40	
40.0			13.20	16.45	20.40	25.00	30.10	35.80	38.20	41.90	45.20	48.60	55.70
45.0				15.40	19.15	23.50	28.50	34.00	36.30	40.00	43.20	46.50	53.50
50.0					17.80	21.90	26.70	32.00	34.30	37.90	41.00	44.30	51.10
55.0						20.30	24.80	29.90	32.10	35.60	38.60	41.80	48.50
60.0							22.80	27.70	29.80	33.10	36.10	39.10	45.60
65.0								25.30	27.30	30.50	33.30	36.30	42.50

50 Hz

ZR144KCE-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	3.06	3.19	3.28	3.35	3.45	3.62							
15.0	3.52	3.69	3.79	3.87	3.96	4.09	4.32						
20.0	3.99	4.19	4.32	4.41	4.49	4.60	4.78	5.08					
25.0	4.48	4.73	4.89	4.98	5.06	5.15	5.30	5.55	5.68	5.93			
30.0	5.01	5.31	5.49	5.61	5.68	5.76	5.89	6.09	6.20	6.40	6.62	6.88	
35.0		5.94	6.16	6.29	6.38	6.45	6.54	6.70	6.79	6.96	7.14	7.36	
40.0			6.89	7.05	7.14	7.21	7.28	7.41	7.48	7.62	7.77	7.95	8.45
45.0				7.89	8.00	8.07	8.12	8.22	8.27	8.38	8.50	8.65	9.07
50.0					8.96	9.03	9.08	9.14	9.18	9.26	9.36	9.48	9.82
55.0						10.10	10.15	10.20	10.20	10.25	10.35	10.45	10.70
60.0							11.35	11.40	11.40	11.45	11.50	11.55	11.75
65.0								12.70	12.75	12.75	12.75	12.80	12.95

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	8.26	8.44	8.55	8.66	8.80	9.05							
15.0	8.76	8.98	9.12	9.22	9.35	9.55	9.88						
20.0	9.28	9.56	9.73	9.84	9.95	10.11	10.38	10.82					
25.0	9.84	10.19	10.40	10.53	10.63	10.77	10.98	11.34	11.54	11.89			
30.0	10.47	10.89	11.15	11.31	11.42	11.53	11.70	11.99	12.15	12.45	12.76	13.13	
35.0		11.69	12.01	12.20	12.31	12.41	12.55	12.78	12.91	13.15	13.41	13.73	
40.0			12.98	13.21	13.35	13.45	13.55	13.73	13.83	14.03	14.24	14.51	15.22
45.0				14.38	14.54	14.64	14.73	14.86	14.94	15.09	15.26	15.48	16.08
50.0					15.91	16.02	16.10	16.19	16.25	16.37	16.50	16.67	17.17
55.0						17.61	17.68	17.75	17.79	17.87	17.97	18.10	18.50
60.0							19.49	19.54	19.57	19.62	19.69	19.79	20.09
65.0								21.59	21.61	21.64	21.68	21.75	21.97

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	60.80	75.10	92.40	112.00	134.50	159.00							
15.0	60.10	74.30	91.70	112.00	134.50	159.50	186.50						
20.0	59.40	73.50	90.80	111.00	134.00	159.50	187.50	217.00					
25.0	58.90	72.50	89.70	110.00	133.50	159.50	187.50	218.00	231.00	250.00			
30.0	58.40	71.60	88.50	109.00	132.00	158.50	187.50	218.00	231.00	251.00	269.00	286.00	
35.0		70.50	87.00	107.00	130.50	157.00	186.00	218.00	231.00	252.00	269.00	287.00	
40.0			85.30	105.00	128.50	155.00	184.50	216.00	230.00	251.00	269.00	288.00	326.00
45.0				102.50	125.50	152.00	182.00	214.00	228.00	249.00	268.00	287.00	326.00
50.0					122.00	148.50	178.50	211.00	225.00	247.00	265.00	285.00	325.00
55.0						144.00	174.00	207.00	221.00	243.00	262.00	282.00	323.00
60.0							168.50	201.00	216.00	238.00	257.00	277.00	319.00
65.0								195.00	209.00	231.00	251.00	271.00	314.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	33.2
Length/Width, mm	281/285
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	65
Sound Power (HT), dBA	76
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	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	22.3
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Enclosure Class	IP21
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve
Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Oil Charge	

### **ACCESSORIES OPTIONAL**

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