



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	10.90	13.55	16.80	20.60	25.00	29.90							
15.0	9.92	12.45	15.50	19.15	23.40	28.10	33.50						
20.0	9.18	11.55	14.45	17.95	22.00	26.60	31.70	37.40					
25.0	8.63	10.80	13.55	16.90	20.80	25.20	30.20	35.70	38.00	41.70			
30.0	8.21	10.25	12.85	16.00	19.70	24.00	28.80	34.10	36.40	40.00	43.10	46.30	
35.0		9.75	12.20	15.15	18.70	22.80	27.40	32.60	34.80	38.30	41.30	44.50	
40.0			11.55	14.40	17.80	21.70	26.10	31.10	33.30	36.60	39.60	42.70	49.20
45.0				13.60	16.80	20.60	24.90	29.70	31.70	35.00	37.80	40.80	47.20
50.0					15.80	19.40	23.50	28.10	30.10	33.30	36.00	38.90	45.10
55.0						18.10	22.00	26.50	28.40	31.40	34.10	36.90	42.90
60.0							20.40	24.70	26.50	29.40	32.00	34.70	40.50
65.0								22.60	24.40	27.20	29.70	32.30	37.90

50 Hz

ZR125KCE-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	2.62	2.71	2.78	2.83	2.87	2.94							
15.0	3.08	3.20	3.28	3.34	3.40	3.47	3.57						
20.0	3.53	3.68	3.78	3.85	3.92	3.99	4.08	4.22					
25.0	4.00	4.17	4.29	4.38	4.45	4.52	4.61	4.73	4.80	4.91			
30.0	4.51	4.70	4.83	4.93	5.01	5.08	5.17	5.28	5.34	5.44	5.53	5.65	
35.0		5.29	5.43	5.54	5.62	5.69	5.77	5.87	5.92	6.01	6.10	6.20	
40.0			6.11	6.22	6.31	6.37	6.44	6.53	6.57	6.65	6.73	6.82	7.05
45.0				6.99	7.08	7.14	7.20	7.27	7.31	7.37	7.44	7.52	7.72
50.0					7.96	8.02	8.07	8.12	8.15	8.20	8.25	8.31	8.48
55.0						9.02	9.05	9.09	9.11	9.15	9.19	9.23	9.37
60.0							10.20	10.20	10.20	10.25	10.25	10.30	10.40
65.0								11.50	11.50	11.50	11.50	11.50	11.60

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	8.59	8.70	8.77	8.82	8.87	8.92							
15.0	8.95	9.09	9.18	9.26	9.32	9.39	9.47						
20.0	9.35	9.51	9.62	9.71	9.79	9.87	9.96	10.08					
25.0	9.80	9.98	10.11	10.22	10.30	10.39	10.49	10.61	10.67	10.78			
30.0	10.33	10.53	10.68	10.79	10.89	10.98	11.08	11.20	11.26	11.36	11.46	11.57	
35.0		11.19	11.35	11.47	11.57	11.66	11.75	11.87	11.92	12.02	12.11	12.22	
40.0			12.14	12.27	12.37	12.45	12.54	12.65	12.70	12.79	12.87	12.97	13.22
45.0				13.21	13.31	13.39	13.47	13.56	13.61	13.68	13.76	13.85	14.07
50.0					14.42	14.49	14.56	14.63	14.67	14.74	14.80	14.88	15.07
55.0						15.79	15.83	15.89	15.92	15.97	16.02	16.08	16.25
60.0							17.32	17.36	17.38	17.41	17.45	17.49	17.62
65.0								19.06	19.06	19.08	19.10	19.13	19.22

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	58.10	71.40	87.40	106.00	127.00	150.50							
15.0	54.60	67.50	83.20	101.50	122.50	146.00	171.50						
20.0	52.30	64.80	80.20	98.30	119.00	142.50	168.00	196.00					
25.0	51.00	63.00	78.00	95.90	116.50	139.50	165.50	193.50	205.00	224.00			
30.0	50.40	61.90	76.60	94.10	114.50	137.50	163.00	191.50	203.00	222.00	238.00	255.00	
35.0		61.40	75.60	92.90	113.00	136.00	161.50	189.50	202.00	220.00	237.00	253.00	
40.0			74.80	91.80	112.00	134.50	160.00	188.50	200.00	219.00	235.00	252.00	288.00
45.0				90.60	110.50	133.00	158.50	187.00	199.00	218.00	234.00	251.00	287.00
50.0					108.50	131.50	157.00	185.50	197.50	217.00	233.00	250.00	287.00
55.0						128.50	154.50	183.00	195.00	214.00	231.00	249.00	285.00
60.0							150.50	179.50	192.00	211.00	228.00	246.00	283.00
65.0								174.50	187.00	207.00	224.00	242.00	280.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	64
Sound Power (HT), dBA	75
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
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	19.6
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
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 Sound Shell (12dBA)

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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