



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 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
25.0	7.66	10.60	13.85	17.55	21.80	26.80	32.50	39.20	42.20	46.90			
30.0	6.52	9.60	12.95	16.75	21.00	25.90	31.60	38.10	41.00	45.60	49.70	54.20	
35.0		8.43	11.90	15.70	19.95	24.80	30.30	36.70	39.50	43.90	48.00	52.20	61.70
40.0			10.60	14.45	18.70	23.40	28.80	35.00	37.70	42.00	45.90	50.00	59.20
45.0				13.00	17.20	21.90	27.10	33.10	35.70	39.90	43.60	47.60	56.30
50.0					20.10	25.20	30.90	33.40	37.40	41.00	44.80	53.20	
55.0						23.00	28.50	30.90	34.70	38.10	41.80	49.80	
60.0							25.90	28.20	31.80	35.10	38.50	46.10	
65.0								25.30	28.70	31.70	35.00	42.10	

50 Hz

ZR144KCE-TFD

R407C Dew Point

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
25.0	4.74	4.87	4.96	5.04	5.10	5.18	5.26	5.38	5.44	5.53			
30.0	5.30	5.44	5.55	5.63	5.69	5.75	5.82	5.91	5.95	6.03	6.10	6.19	
35.0		6.08	6.21	6.30	6.36	6.42	6.47	6.53	6.56	6.62	6.67	6.74	6.91
40.0			6.95	7.05	7.13	7.18	7.22	7.26	7.29	7.32	7.36	7.41	7.53
45.0				7.92	8.00	8.05	8.09	8.12	8.13	8.16	8.18	8.21	8.29
50.0						9.06	9.10	9.12	9.13	9.14	9.15	9.16	9.21
55.0							10.25	10.25	10.30	10.30	10.30	10.30	10.30
60.0								11.60	11.60	11.60	11.60	11.60	11.55
65.0									13.10	13.10	13.10	13.10	13.05

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
25.0	11.05	11.17	11.26	11.33	11.40	11.47	11.56	11.69	11.75	11.86			
30.0	11.59	11.75	11.86	11.94	12.01	12.08	12.15	12.25	12.30	12.38	12.47	12.57	
35.0		12.45	12.59	12.69	12.77	12.83	12.89	12.96	13.00	13.06	13.12	13.20	13.39
40.0			13.47	13.60	13.69	13.75	13.80	13.86	13.88	13.92	13.97	14.02	14.16
45.0				14.69	14.79	14.86	14.91	14.95	14.97	15.00	15.02	15.06	15.15
50.0						16.19	16.24	16.27	16.28	16.30	16.31	16.33	16.38
55.0							17.81	17.84	17.84	17.85	17.85	17.85	17.87
60.0								19.67	19.67	19.67	19.66	19.66	19.64
65.0									21.80	21.79	21.78	21.76	21.72

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
25.0	44.30	60.20	77.40	96.60	118.50	143.00	171.50	204.00	218.00	240.00			
30.0	39.50	57.20	75.90	96.20	119.00	144.50	173.50	206.00	220.00	243.00	264.00	285.00	
35.0		52.70	72.90	94.60	118.50	144.50	174.00	207.00	222.00	245.00	266.00	287.00	335.00
40.0			68.60	91.60	116.50	143.50	173.50	208.00	222.00	245.00	266.00	288.00	336.00
45.0				87.00	113.00	141.00	172.00	206.00	221.00	245.00	266.00	288.00	336.00
50.0						137.00	169.00	204.00	219.00	243.00	264.00	286.00	334.00
55.0							164.00	200.00	215.00	239.00	260.00	283.00	332.00
60.0								194.00	210.00	234.00	256.00	278.00	327.00
65.0									203.00	227.00	249.00	272.00	322.00

### **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	64
Sound Power (HT), dBA	75
Sound Power with Sound Shell (HT), dBA	66
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	1774
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

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
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