



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	5.79	7.61	9.65	12.00	14.75	17.95	21.80	26.20	28.20	31.40			
30.0	4.96	6.92	9.06	11.45	14.20	17.35	21.10	25.30	27.20	30.30	33.10	36.10	
35.0		6.03	8.29	10.75	13.50	16.65	20.20	24.40	26.20	29.10	31.80	34.60	
40.0			7.30	9.84	12.60	15.75	19.25	23.30	25.00	27.90	30.40	33.10	39.20
45.0				8.72	11.55	14.65	18.10	22.00	23.70	26.40	28.90	31.50	37.30
50.0					10.25	13.35	16.80	20.60	22.20	24.90	27.20	29.70	35.20
55.0						11.90	15.25	19.00	20.60	23.10	25.40	27.80	33.10
60.0							13.55	17.20	18.75	21.20	23.40	25.70	30.80
65.0								15.20	16.75	19.10	21.20	23.40	28.30

50 Hz

ZR94KCE-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	3.32	3.40	3.46	3.50	3.53	3.55	3.55	3.56	3.56	3.56			
30.0	3.72	3.81	3.87	3.92	3.95	3.97	3.98	3.98	3.97	3.97	3.97	3.96	
35.0		4.28	4.34	4.39	4.42	4.44	4.44	4.44	4.43	4.43	4.42	4.41	
40.0			4.89	4.94	4.97	4.98	4.98	4.96	4.96	4.94	4.93	4.91	4.88
45.0				5.57	5.59	5.60	5.59	5.57	5.55	5.53	5.51	5.49	5.45
50.0					6.32	6.32	6.30	6.26	6.24	6.21	6.19	6.16	6.09
55.0						7.15	7.12	7.07	7.04	7.00	6.97	6.93	6.85
60.0							8.06	8.00	7.97	7.92	7.87	7.83	7.72
65.0								9.07	9.04	8.97	8.92	8.86	8.73

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	8.99	9.05	9.09	9.13	9.15	9.17	9.18	9.18	9.19	9.19			
30.0	9.31	9.38	9.43	9.47	9.50	9.52	9.53	9.53	9.53	9.52	9.52	9.51	
35.0		9.81	9.87	9.92	9.95	9.96	9.97	9.96	9.96	9.95	9.94	9.93	
40.0			10.43	10.48	10.50	10.52	10.51	10.50	10.49	10.47	10.46	10.44	10.39
45.0				11.18	11.20	11.21	11.19	11.17	11.15	11.13	11.10	11.08	11.01
50.0					12.05	12.05	12.03	11.99	11.97	11.93	11.90	11.86	11.77
55.0						13.07	13.03	12.98	12.95	12.90	12.86	12.81	12.70
60.0							14.24	14.16	14.12	14.06	14.01	13.95	13.81
65.0								15.56	15.52	15.44	15.37	15.30	15.13

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	33.50	43.30	54.00	66.10	79.90	96.00	114.50	136.00	145.50	161.00			
30.0	30.00	41.20	53.00	65.90	80.40	96.80	115.50	137.00	146.50	162.00	175.50	190.00	
35.0		37.70	50.80	64.80	80.00	97.00	116.00	138.00	147.50	162.50	176.00	190.50	
40.0			47.10	62.40	78.60	96.30	116.00	138.00	147.50	162.50	176.50	191.00	222.00
45.0				58.40	75.80	94.50	115.00	137.50	147.00	162.50	176.00	190.50	222.00
50.0					71.50	91.30	112.50	135.50	145.50	161.50	175.00	190.00	222.00
55.0						86.50	109.00	133.00	143.50	159.50	173.50	188.50	220.00
60.0							103.50	129.00	139.50	156.00	170.50	186.00	219.00
65.0								123.00	134.00	151.50	166.50	182.50	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	63
Sound Power (HT), dBA	74
Sound Power with Sound Shell (HT), dBA	64
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
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	1774
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**

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

<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