



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	8.17	11.20	14.85	19.15	24.30	30.40	37.50	45.70	49.30	55.20				
30.0	7.07	10.05	13.60	17.80	22.80	28.70	35.50	43.50	47.00	52.70	57.80	63.20		
35.0		8.86	12.30	16.35	21.20	26.90	33.50	41.20	44.60	50.10	55.00	60.20		
40.0			10.95	14.85	19.50	24.90	31.30	38.70	42.00	47.30	52.00	57.10	68.30	
45.0				13.30	17.70	22.90	29.00	36.10	39.30	44.40	48.90	53.80	64.60	
50.0					15.90	20.80	26.70	33.40	36.40	41.30	45.70	50.30	60.70	
55.0						18.70	24.20	30.60	33.50	38.10	42.30	46.70	56.60	
60.0							21.70	27.70	30.40	34.80	38.80	43.00	52.40	
65.0								24.70	27.30	31.40	35.10	39.10	48.00	

50 Hz

ZR160KCE-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	5.46	5.54	5.61	5.68	5.76	5.84	5.94	6.07	6.13	6.23			
30.0	6.12	6.22	6.30	6.37	6.45	6.53	6.62	6.73	6.78	6.87	6.95	7.04	
35.0		6.98	7.07	7.15	7.22	7.29	7.37	7.46	7.50	7.58	7.65	7.72	
40.0			7.95	8.03	8.09	8.15	8.21	8.29	8.32	8.38	8.43	8.49	8.64
45.0				9.04	9.09	9.14	9.18	9.23	9.26	9.29	9.33	9.38	9.48
50.0					10.25	10.30	10.30	10.30	10.35	10.35	10.35	10.40	10.45
55.0						11.60	11.60	11.60	11.60	11.60	11.60	11.60	11.60
60.0							13.10	13.05	13.05	13.00	13.00	12.95	12.95
65.0								14.70	14.70	14.65	14.60	14.55	14.50

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	13.54	13.56	13.58	13.61	13.66	13.74	13.86	14.04	14.13	14.28			
30.0	14.20	14.29	14.35	14.40	14.46	14.53	14.62	14.74	14.81	14.92	15.02	15.15	
35.0		15.06	15.17	15.26	15.33	15.40	15.47	15.55	15.59	15.66	15.73	15.81	
40.0			16.09	16.22	16.32	16.39	16.45	16.50	16.53	16.57	16.61	16.65	16.77
45.0				17.33	17.46	17.55	17.61	17.65	17.66	17.67	17.68	17.70	17.74
50.0					18.81	18.93	18.99	19.02	19.02	19.02	19.01	19.00	18.97
55.0						20.56	20.64	20.67	20.67	20.65	20.62	20.59	20.51
60.0							22.60	22.63	22.63	22.61	22.57	22.52	22.39
65.0								24.96	24.96	24.93	24.89	24.83	24.67

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	47.20	63.80	83.00	105.50	132.00	162.00	197.00	237.00	255.00	283.00			
30.0	42.80	59.90	79.60	102.50	129.00	159.50	195.00	235.00	253.00	281.00	307.00	333.00	
35.0		55.30	75.40	98.70	125.50	156.50	192.00	233.00	251.00	279.00	305.00	331.00	
40.0			70.60	94.20	121.50	152.50	188.50	230.00	248.00	276.00	302.00	329.00	388.00
45.0				89.00	116.50	148.00	184.00	225.00	243.00	272.00	298.00	325.00	385.00
50.0					110.50	142.50	179.00	220.00	239.00	268.00	294.00	321.00	382.00
55.0						136.00	172.50	215.00	233.00	262.00	289.00	316.00	377.00
60.0							165.50	208.00	226.00	256.00	282.00	311.00	372.00
65.0								200.00	219.00	249.00	276.00	304.00	367.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	36.4
Length/Width, mm	281/285
Height, mm	552
Net Weight, kg	64.9
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.37
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	67
Sound Power (HT), dBA	78
Sound Power with Sound Shell (HT), dBA	66
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	14.0
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	28
Locked Rotor Current, A	140
Winding Resistance, ohm	1.1
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Oil Control System	Parallel Operation
Mounting Grommets	ALCO Trax-Oil OM3
Sound Attenuation	Hard Mounts for Paralleling
Mounting Grommets	Sound Shell (12dBA)
Crankcase Heater	Rubber Grommet For Single
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
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
TF7	380 V / 3~ / 60 Hz	380		Y	1.26
TW5	200-230 V / 3~ / 60 Hz	230		Y	2.30