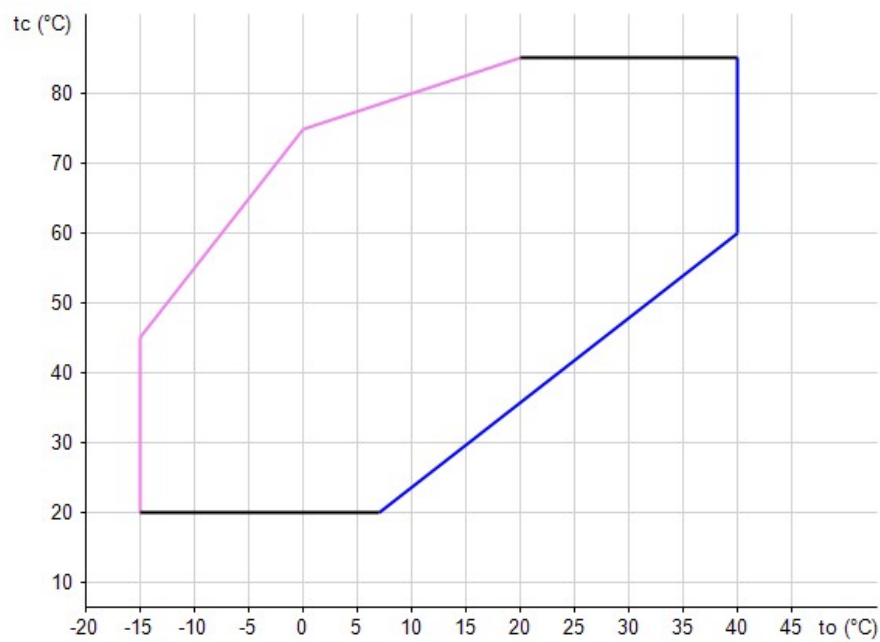




Minimum Evaporating Temp. With:

10 K Suction Superheat

Maximum Evaporating Temperature

Additional restrictions, please see application guidelines

50 Hz	ZR160KRE-TFD	R513A
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Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	14.40	17.65	21.60	26.40	32.00	34.60								
25.0	13.50	16.70	20.60	25.20	30.70	33.10	37.10							
30.0	12.60	15.75	19.50	24.00	29.30	31.60	35.50	38.90	42.60					
35.0	11.70	14.75	18.40	22.70	27.80	30.00	33.70	37.00	40.60					
40.0	10.75	13.70	17.25	21.40	26.20	28.40	31.90	35.00	38.40	46.00				
45.0	9.76	12.65	16.00	19.95	24.60	26.60	29.90	33.00	36.20	43.40	51.60			
50.0		11.50	14.75	18.45	22.80	24.80	27.90	30.80	33.80	40.60	48.50	57.40		
55.0		10.35	13.40	16.95	21.00	22.90	25.80	28.50	31.40	37.80	45.20	53.60	63.20	
60.0			12.00	15.30	19.15	20.90	23.60	26.10	28.80	34.80	41.70	49.70	58.70	68.90
65.0			10.55	13.60	17.20	18.75	21.30	23.60	26.10	31.70	38.20	45.60	54.10	63.70
70.0				11.85	15.10	16.55	18.90	21.00	23.30	28.50	34.50	41.40	49.30	58.30
75.0				10.05	12.95	14.30	16.40	18.35	20.40	25.20	30.60	37.00	44.30	52.70
80.0							13.80	15.55	17.45	21.70	26.70	32.50	39.20	47.00
85.0										18.10	22.60	27.80	33.90	41.00

Cond °C	Power, kW													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	4.00	3.99	3.99	4.01	4.04	4.06								
25.0	4.40	4.41	4.43	4.45	4.50	4.52	4.56							
30.0	4.85	4.86	4.89	4.93	4.98	5.01	5.05	5.10	5.15					
35.0	5.34	5.37	5.40	5.44	5.50	5.52	5.57	5.62	5.67					
40.0	5.90	5.93	5.96	6.00	6.06	6.09	6.14	6.18	6.23	6.36				
45.0	6.55	6.57	6.60	6.64	6.69	6.71	6.76	6.80	6.85	6.97	7.12			
50.0		7.29	7.32	7.35	7.39	7.41	7.45	7.49	7.54	7.65	7.78	7.95		
55.0		8.12	8.13	8.15	8.18	8.20	8.23	8.27	8.30	8.40	8.52	8.67	8.86	
60.0			9.06	9.06	9.08	9.09	9.11	9.14	9.16	9.24	9.34	9.48	9.65	9.86
65.0			10.10	10.10	10.10	10.10	10.10	10.10	10.15	10.20	10.25	10.40	10.55	10.70
70.0				11.25	11.25	11.20	11.20	11.20	11.20	11.25	11.30	11.40	11.50	11.65
75.0				12.55	12.50	12.50	12.45	12.45	12.45	12.45	12.45	12.50	12.60	12.75
80.0							13.85	13.85	13.80	13.80	13.75	13.80	13.85	13.95
85.0										15.25	15.20	15.20	15.20	15.25

Additional restrictions, please see application guidelines

50 Hz

ZR160KRE-TFD

R513A

Cond °C	Current at 400 V, A													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	12.20	12.19	12.20	12.21	12.25	12.27								
25.0	12.75	12.76	12.77	12.80	12.84	12.87	12.92							
30.0	13.25	13.27	13.29	13.32	13.38	13.40	13.45	13.50	13.56					
35.0	13.75	13.77	13.80	13.83	13.89	13.91	13.96	14.01	14.07					
40.0	14.27	14.29	14.32	14.36	14.41	14.44	14.49	14.53	14.59	14.72				
45.0	14.86	14.88	14.91	14.95	15.00	15.02	15.06	15.11	15.16	15.29	15.45			
50.0		15.58	15.60	15.63	15.67	15.69	15.73	15.77	15.82	15.93	16.08	16.28		
55.0		16.42	16.43	16.45	16.48	16.50	16.53	16.56	16.60	16.70	16.84	17.01	17.24	
60.0			17.44	17.45	17.47	17.48	17.50	17.52	17.55	17.64	17.75	17.91	18.11	18.36
65.0			18.67	18.66	18.66	18.67	18.68	18.69	18.71	18.77	18.87	19.00	19.17	19.40
70.0				20.13	20.11	20.11	20.10	20.11	20.11	20.15	20.22	20.32	20.47	20.66
75.0				21.89	21.85	21.83	21.81	21.80	21.80	21.81	21.85	21.92	22.03	22.20
80.0							23.85	23.83	23.81	23.79	23.79	23.83	23.91	24.04
85.0										26.12	26.09	26.09	26.14	26.22

Cond °C	Suction Mass Flow, g/s													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	97.20	116.50	139.50	167.00	198.50	213.00								
25.0	95.80	116.00	139.50	167.00	199.00	213.00	236.00							
30.0	94.20	115.00	139.00	166.50	199.00	213.00	236.00	256.00	278.00					
35.0	92.30	113.50	138.00	166.00	198.50	213.00	236.00	256.00	278.00					
40.0	90.00	112.00	137.00	165.50	198.00	212.00	235.00	255.00	277.00	324.00				
45.0	87.30	110.00	135.00	164.00	196.50	211.00	234.00	254.00	275.00	323.00	375.00			
50.0		107.00	133.00	162.00	194.50	209.00	232.00	252.00	273.00	321.00	373.00	432.00		
55.0		104.00	130.00	159.50	192.00	206.00	229.00	249.00	271.00	318.00	370.00	429.00	494.00	
60.0			126.50	156.00	189.00	203.00	226.00	246.00	267.00	314.00	366.00	425.00	490.00	563.00
65.0			122.00	151.50	184.50	198.50	221.00	241.00	263.00	309.00	361.00	420.00	485.00	558.00
70.0				146.00	179.00	193.00	216.00	236.00	257.00	303.00	356.00	414.00	479.00	552.00
75.0				139.00	172.00	186.00	209.00	229.00	250.00	296.00	349.00	407.00	473.00	546.00
80.0							200.00	220.00	242.00	288.00	341.00	400.00	466.00	540.00
85.0										279.00	333.00	393.00	461.00	537.00

Additional restrictions, please see application guidelines

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	36.4
Length/Width, mm	281/284
Height, mm	552
Net Weight, kg	64.9
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	68
Sound Power (HT), dBA	79
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	5 / 50 / 15 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	12.8
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	53
Low Side TS Min., °C	-35
Refrigerant's GWP	631
Refrigerant's classification	A1

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

Maximum Operating Current, A	30
Locked Rotor Current, A	140
Winding Resistance, ohm	1.1
Default Enclosure Class	IP 21/65

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

Additional restrictions, please see application guidelines

ACCESSORIES OPTIONAL

Crankcase Heater	67 W External
Enclosure Class	IP 65
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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04

Additional restrictions, please see application guidelines