



Minimum Evaporating Temp. With:

— 10 K Suction Superheat

— Maximum Evaporating Temperature

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	15.70	19.60	24.20	29.60	36.00	38.90			
25.0	15.05	18.90	23.40	28.70	34.90	37.70	42.20		
30.0	14.30	18.10	22.50	27.60	33.60	36.30	40.70	44.60	48.80
35.0	13.40	17.10	21.40	26.40	32.20	34.80	39.00	42.80	46.90
40.0	12.35	16.05	20.20	25.10	30.70	33.20	37.20	40.80	44.70
45.0	11.20	14.85	18.90	23.60	29.00	31.40	35.20	38.70	42.50
50.0		13.55	17.50	22.00	27.20	29.50	33.10	36.50	40.10
55.0		12.15	15.95	20.30	25.20	27.40	31.00	34.10	37.60
60.0			14.35	18.50	23.20	25.30	28.60	31.70	34.90
65.0			12.65	16.60	21.10	23.10	26.20	29.10	32.20
70.0				14.65	18.90	20.70	23.70	26.40	29.30
75.0				12.65	16.60	18.35	21.10	23.60	26.30

50 Hz

ZR190KRE-TFD

R134a

Cond °C	Power, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	4.73	4.83	4.94	5.08	5.26	5.35			
25.0	5.12	5.21	5.31	5.42	5.56	5.64	5.76		
30.0	5.60	5.68	5.76	5.84	5.96	6.02	6.12	6.23	6.35
35.0	6.17	6.24	6.30	6.37	6.46	6.50	6.59	6.67	6.78
40.0	6.82	6.89	6.94	6.99	7.06	7.09	7.16	7.23	7.31
45.0	7.57	7.64	7.68	7.72	7.77	7.79	7.84	7.90	7.96
50.0		8.49	8.53	8.56	8.59	8.61	8.64	8.68	8.73
55.0		9.45	9.49	9.52	9.53	9.54	9.57	9.59	9.63
60.0			10.55	10.60	10.60	10.60	10.60	10.65	10.65
65.0			11.75	11.80	11.80	11.80	11.80	11.80	11.80
70.0				13.10	13.10	13.10	13.10	13.10	13.10
75.0				14.60	14.60	14.60	14.55	14.55	14.55

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	16.46	16.51	16.52	16.52	16.56	16.59			
25.0	17.54	17.61	17.62	17.60	17.60	17.62	17.66		
30.0	18.42	18.52	18.53	18.51	18.49	18.50	18.51	18.55	18.61
35.0	19.15	19.28	19.32	19.30	19.27	19.26	19.27	19.28	19.32
40.0	19.78	19.95	20.02	20.02	19.98	19.97	19.96	19.96	19.98
45.0	20.34	20.57	20.68	20.70	20.68	20.66	20.65	20.64	20.65
50.0		21.18	21.34	21.39	21.39	21.38	21.37	21.36	21.35
55.0		21.83	22.04	22.15	22.18	22.17	22.16	22.16	22.15
60.0			22.85	23.01	23.07	23.08	23.09	23.09	23.08
65.0			23.79	24.02	24.13	24.16	24.18	24.19	24.20
70.0				25.22	25.40	25.44	25.49	25.52	25.54
75.0				26.66	26.91	26.98	27.06	27.11	27.15

50 Hz

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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	92.40	113.00	137.00	165.00	197.00	211.00			
25.0	92.50	114.00	138.00	166.50	198.50	213.00	236.00		
30.0	91.80	114.00	138.50	167.00	199.50	214.00	237.00	258.00	280.00
35.0	90.30	113.00	138.50	167.50	200.00	214.00	238.00	258.00	280.00
40.0	87.80	111.50	137.50	166.50	199.50	214.00	237.00	258.00	280.00
45.0	84.30	109.00	135.50	165.00	198.50	213.00	236.00	257.00	279.00
50.0		105.00	132.50	163.00	196.50	211.00	234.00	255.00	277.00
55.0		100.50	129.00	159.50	193.50	208.00	232.00	253.00	275.00
60.0			124.00	155.00	190.00	205.00	228.00	249.00	272.00
65.0			117.50	150.00	185.00	200.00	224.00	245.00	267.00
70.0				143.50	179.00	194.50	218.00	240.00	262.00
75.0				135.50	172.00	187.50	212.00	234.00	256.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	43.3
Length/Width, mm	281/285
Height, mm	552
Net Weight, kg	66.2
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.38
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	71
Sound Power (HT), dBA	82
Sound Conditions (HT, Temperatures:	5 / 50 / 15 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
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	1430
Refrigerant's classification	A1

50 Hz

ZR190KRE-TFD

R134a

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

Maximum Operating Current, A	36
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 21/65

ACCESSORIES INCLUDED

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

ACCESSORIES OPTIONAL

Enclosure Class	IP 65
Mounting Grommets	Hard Mounts for Paralleling
Sound Attenuation	Sound Shell (12dBA)
Oil Control System	ALCO Trax-Oil OM3
Mounting Grommets	Rubber Grommet For Single
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Crankcase Heater	Parallel Operation 67 W External

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