



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									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	15.80	19.90	24.60	30.10	36.50	44.00				
25.0	15.40	19.40	24.00	29.20	35.40	42.50	45.60	50.70		
30.0	14.80	18.75	23.20	28.30	34.10	40.90	43.90	48.70	53.00	57.70
35.0	14.05	17.95	22.30	27.20	32.80	39.30	42.10	46.70	50.80	55.20
40.0	13.00	16.95	21.20	26.00	31.40	37.60	40.30	44.60	48.50	52.70
45.0		15.75	20.00	24.70	29.90	35.80	38.30	42.50	46.20	50.10
50.0			18.60	23.20	28.20	33.90	36.30	40.20	43.80	47.50
55.0				21.50	26.40	31.80	34.20	37.90	41.30	44.80
60.0					24.40	29.70	31.90	35.50	38.70	42.00
65.0					22.20	27.30	29.50	32.90	35.90	39.20

50 Hz

ZR16M3E-TWD

R22

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	5.52	5.59	5.67	5.78	5.95	6.19				
25.0	6.10	6.17	6.22	6.30	6.41	6.58	6.66	6.82		
30.0	6.73	6.80	6.85	6.90	6.97	7.07	7.13	7.24	7.35	7.49
35.0	7.40	7.50	7.56	7.59	7.63	7.68	7.72	7.79	7.86	7.95
40.0	8.12	8.26	8.33	8.37	8.39	8.41	8.43	8.46	8.50	8.56
45.0		9.08	9.19	9.24	9.26	9.26	9.27	9.28	9.29	9.32
50.0			10.15	10.20	10.25	10.25	10.25	10.25	10.25	10.25
55.0				11.30	11.35	11.35	11.35	11.30	11.30	11.30
60.0					12.55	12.55	12.55	12.55	12.55	12.50
65.0					13.85	13.95	13.95	13.95	13.90	13.90

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	12.59	12.59	12.56	12.53	12.55	12.66				
25.0	13.25	13.28	13.25	13.22	13.22	13.29	13.35	13.47		
30.0	13.95	14.00	13.99	13.95	13.94	13.98	14.02	14.11	14.23	14.38
35.0	14.70	14.78	14.79	14.76	14.73	14.75	14.77	14.84	14.93	15.05
40.0	15.55	15.67	15.70	15.67	15.64	15.63	15.65	15.69	15.76	15.85
45.0		16.69	16.74	16.73	16.69	16.67	16.67	16.69	16.74	16.81
50.0			17.95	17.95	17.92	17.88	17.87	17.88	17.91	17.96
55.0				19.38	19.35	19.31	19.29	19.28	19.29	19.32
60.0					21.02	20.98	20.96	20.94	20.93	20.94
65.0					22.97	22.92	22.90	22.87	22.85	22.85

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	87.80	109.00	133.00	161.00	193.50	231.00				
25.0	88.60	110.00	134.50	162.00	193.50	230.00	246.00	272.00		
30.0	88.40	110.50	135.00	162.50	193.50	229.00	245.00	270.00	293.00	317.00
35.0	87.10	110.00	134.50	162.00	193.50	229.00	244.00	269.00	291.00	314.00
40.0	84.20	108.00	133.50	161.50	192.50	227.00	243.00	267.00	289.00	312.00
45.0		105.00	131.50	159.50	191.00	226.00	241.00	265.00	286.00	309.00
50.0			127.50	157.00	188.50	223.00	238.00	262.00	283.00	306.00
55.0				152.50	185.00	220.00	235.00	259.00	280.00	302.00
60.0					180.00	216.00	231.00	255.00	276.00	298.00
65.0					173.50	210.00	226.00	250.00	271.00	293.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	35.5
Length/Width, mm	319/357
Height, mm	532
Net Weight, kg	95
Gross Weight, kg	101
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	4.1
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	220 x 220 (8.5)
Sound Pressure @ 1m (HT), dBA	69
Sound Power (HT), dBA	80
Sound Power with Sound Shell (HT), dBA	68
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	20.2
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	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	27
Locked Rotor Current, A	167
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

50 Hz

ZR16M3E-TWD

R22

ACCESSORIES OPTIONAL

Crankcase Heater	49 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Mounting Grommets	Hard Mounts for Paralleling

MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWD	460 V / 3~ / 60 Hz	460		Y	1.04