



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								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	13.70	17.35	21.80	27.00	33.10	35.80	40.10	43.90	47.90
35.0	13.00	16.45	20.70	25.70	31.60	34.10	38.20	41.90	45.70
40.0	12.25	15.55	19.65	24.40	30.00	32.50	36.40	39.80	43.50
45.0		14.65	18.50	23.10	28.40	30.80	34.50	37.80	41.30
50.0		13.65	17.35	21.70	26.80	29.00	32.60	35.80	39.10
55.0			16.10	20.30	25.10	27.30	30.60	33.70	36.80
60.0				18.75	23.40	25.40	28.60	31.50	34.50
65.0				17.10	21.50	23.40	26.40	29.10	32.00
70.0					19.45	21.20	24.10	26.70	29.40

50 Hz

ZR19M3E-TWD

R134a

Cond °C	Power, kW								
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
30.0	5.57	5.62	5.65	5.65	5.62	5.59	5.55	5.51	5.46
35.0	6.15	6.21	6.25	6.27	6.25	6.23	6.20	6.17	6.13
40.0	6.79	6.87	6.92	6.95	6.95	6.94	6.92	6.90	6.87
45.0		7.60	7.67	7.71	7.72	7.72	7.71	7.70	7.68
50.0		8.40	8.48	8.54	8.57	8.58	8.58	8.58	8.57
55.0			9.38	9.45	9.50	9.52	9.53	9.54	9.54
60.0				10.45	10.50	10.55	10.55	10.60	10.60
65.0				11.55	11.60	11.65	11.70	11.70	11.75
70.0					12.80	12.85	12.90	12.95	13.00

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
30.0	14.54	14.59	14.61	14.61	14.58	14.56	14.53	14.51	14.47
35.0	15.03	15.10	15.14	15.15	15.14	15.13	15.11	15.08	15.06
40.0	15.62	15.71	15.77	15.80	15.80	15.80	15.79	15.77	15.75
45.0		16.43	16.51	16.56	16.59	16.59	16.59	16.58	16.57
50.0		17.28	17.38	17.46	17.50	17.51	17.52	17.52	17.52
55.0			18.39	18.49	18.56	18.57	18.60	18.61	18.61
60.0				19.67	19.76	19.79	19.82	19.84	19.86
65.0				21.01	21.12	21.16	21.20	21.24	21.26
70.0					22.65	22.70	22.76	22.81	22.84

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
30.0	88.10	109.00	134.50	163.50	196.50	211.00	234.00	253.00	274.00
35.0	87.60	108.50	134.00	163.00	196.00	210.00	233.00	253.00	273.00
40.0	87.00	108.00	133.50	162.50	195.50	210.00	232.00	252.00	272.00
45.0		107.50	132.50	162.00	195.00	209.00	231.00	251.00	272.00
50.0		106.00	131.50	161.00	194.00	208.00	231.00	250.00	271.00
55.0			130.00	159.50	193.00	207.00	230.00	249.00	270.00
60.0				157.50	191.00	205.00	228.00	248.00	268.00
65.0				154.00	188.00	203.00	226.00	246.00	266.00
70.0					184.00	199.00	222.00	242.00	263.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	42.8
Length/Width, mm	321/349
Height, mm	579
Net Weight, kg	107
Gross Weight, kg	113
Rotalock Suction, inch	2 1/4
Rotalock Discharge, inch	1 3/4
Stub Suction, inch	1 5/8
Stub Discharge, inch	1 1/8
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	70
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	21.2
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	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	32
Locked Rotor Current, A	198
Winding Resistance, ohm	0.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermistor

50 Hz

ZR19M3E-TWD

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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