



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	22.30	27.30	33.20	40.10					
15.0	21.30	26.10	31.70	38.30	45.90				
20.0	20.20	24.80	30.20	36.40	43.60	51.90			
25.0	19.10	23.50	28.50	34.40	41.30	49.10	58.00		
30.0	17.95	22.10	26.80	32.40	38.80	46.20	54.60	58.30	64.20
35.0	16.75	20.60	25.10	30.30	36.30	43.20	51.00	54.50	60.00
40.0	15.50	19.10	23.30	28.10	33.60	40.10	47.40	50.70	55.80
45.0	14.20	17.55	21.40	25.80	31.00	36.90	43.70	46.70	51.50
50.0		15.95	19.45	23.50	28.20	33.70	39.90	42.70	47.10
55.0		14.30	17.50	21.20	25.40	30.30	36.10	38.60	42.60
60.0			15.50	18.75	22.60	27.00	32.10	34.40	38.10

50 Hz

ZB11MCE-TWD

R404A Dew Point

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	5.44	5.62	5.88	6.24					
15.0	6.15	6.30	6.52	6.82	7.23				
20.0	6.92	7.07	7.25	7.50	7.84	8.30			
25.0	7.75	7.91	8.08	8.29	8.56	8.94	9.46		
30.0	8.63	8.82	8.98	9.17	9.41	9.72	10.15	10.35	10.70
35.0	9.57	9.79	9.97	10.15	10.35	10.60	10.95	11.15	11.40
40.0	10.55	10.80	11.05	11.20	11.40	11.65	11.90	12.05	12.30
45.0	11.55	11.90	12.15	12.35	12.55	12.75	13.00	13.10	13.30
50.0		13.00	13.35	13.60	13.80	14.00	14.20	14.30	14.45
55.0		14.15	14.55	14.85	15.10	15.30	15.50	15.60	15.75
60.0			15.85	16.20	16.50	16.75	16.95	17.00	17.15

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	14.53	14.77	15.15	15.68					
15.0	15.15	15.35	15.66	16.10	16.69				
20.0	15.85	16.03	16.29	16.66	17.14	17.77			
25.0	16.63	16.81	17.04	17.35	17.76	18.28	18.93		
30.0	17.51	17.70	17.93	18.21	18.55	18.98	19.52	19.77	20.18
35.0	18.51	18.73	18.97	19.23	19.53	19.90	20.34	20.55	20.88
40.0	19.63	19.91	20.17	20.44	20.72	21.04	21.41	21.57	21.85
45.0	20.90	21.25	21.56	21.85	22.13	22.41	22.73	22.87	23.09
50.0		22.77	23.15	23.47	23.77	24.05	24.32	24.44	24.62
55.0		24.48	24.94	25.33	25.66	25.94	26.21	26.31	26.46
60.0			26.96	27.43	27.81	28.12	28.39	28.48	28.62

50 Hz

ZB11MCE-TWD

R404A Dew Point

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
10.0	125.50	154.50	189.00	230.00					
15.0	125.00	154.00	188.00	229.00	277.00				
20.0	124.00	153.00	187.00	228.00	275.00	331.00			
25.0	123.00	151.50	186.00	226.00	273.00	329.00	394.00		
30.0	121.50	150.00	184.00	224.00	271.00	326.00	391.00	420.00	467.00
35.0	119.50	148.00	181.50	221.00	268.00	323.00	388.00	417.00	464.00
40.0	117.50	146.00	179.00	218.00	265.00	319.00	384.00	413.00	461.00
45.0	115.00	143.50	176.00	215.00	261.00	315.00	380.00	409.00	457.00
50.0		140.50	173.00	211.00	257.00	311.00	376.00	406.00	454.00
55.0		137.50	170.00	208.00	253.00	308.00	373.00	403.00	452.00
60.0			167.00	205.00	250.00	305.00	372.00	402.00	453.00

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
Oil Quantity, l	4.14
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 (MT), dBA	75
Sound Power (MT), dBA	86
Sound Power with Sound Shell (MT), dBA	76
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °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	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	3922
Refrigerant's classification	A1

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

Maximum Operating Current, A	29.2
Locked Rotor Current, A	198
Winding Resistance, ohm	0.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

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
TWC	200 V / 3~ / 50 Hz	200		Y	2.09
TWE	500 V / 3~ / 50 Hz	500		Y	0.80
TWR	220-240 V / 3~ / 50 Hz	230		Y	1.73
TWD	460 V / 3~ / 60 Hz	460		Y	1.04
TWC	208-230 V / 3~ / 60 Hz	230		Y	2.09
TWE	575 V / 3~ / 60 Hz	575		Y	0.80
TW7	380 V / 3~ / 60 Hz	380		Y	1.26