



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature
- 25 °C Suction Gas Return

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	45.00	55.30	67.30	81.30					
15.0	42.90	52.70	64.30	77.60	93.00				
20.0	40.80	50.10	61.10	73.80	88.50	105.00			
25.0	38.60	47.50	57.90	69.90	83.80	99.60	117.50		
30.0	36.40	44.80	54.50	65.90	78.90	93.90	111.00	118.50	130.00
35.0	34.20	42.00	51.10	61.70	74.00	88.00	104.00	111.00	122.00
40.0		39.20	47.70	57.50	68.90	81.90	96.90	103.50	114.00
45.0			44.10	53.20	63.60	75.70	89.60	95.70	105.50
50.0			40.60	48.80	58.30	69.40	82.10	87.70	96.70
55.0				44.30	52.90	62.90	74.50	79.60	87.90
60.0					47.40	56.30	66.70	71.30	78.80

50 Hz

ZB220KCE-TWM

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	11.50	11.85	12.45	13.40					
15.0	12.85	13.05	13.50	14.20	15.25				
20.0	14.30	14.45	14.75	15.25	16.05	17.30			
25.0	15.85	16.00	16.20	16.55	17.15	18.10	19.50		
30.0	17.55	17.75	17.90	18.15	18.60	19.30	20.40	20.90	21.90
35.0	19.40	19.65	19.85	20.00	20.40	20.90	21.70	22.10	22.90
40.0		21.80	22.00	22.20	22.40	22.80	23.40	23.80	24.40
45.0			24.40	24.60	24.90	25.10	25.60	25.80	26.30
50.0			27.00	27.40	27.60	27.80	28.20	28.40	28.70
55.0				30.40	30.70	30.90	31.20	31.40	31.60
60.0					34.10	34.40	34.70	34.80	35.00

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	25.70	26.06	26.72	27.79					
15.0	27.02	27.28	27.76	28.58	29.85				
20.0	28.60	28.80	29.15	29.76	30.75	32.24			
25.0	30.45	30.64	30.91	31.36	32.12	33.30	35.01		
30.0	32.58	32.81	33.04	33.39	33.97	34.89	36.26	36.96	38.20
35.0	35.00	35.32	35.57	35.86	36.30	37.01	38.10	38.67	39.68
40.0		38.18	38.50	38.78	39.13	39.68	40.53	40.98	41.80
45.0			41.83	42.15	42.47	42.90	43.57	43.92	44.58
50.0			45.59	45.99	46.32	46.69	47.22	47.50	48.01
55.0				50.32	50.71	51.06	51.50	51.72	52.13
60.0					55.63	56.02	56.41	56.59	56.92

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	253.00	312.00	383.00	465.00					
15.0	252.00	311.00	381.00	464.00	560.00				
20.0	250.00	309.00	379.00	461.00	558.00	670.00			
25.0	248.00	307.00	377.00	459.00	555.00	667.00	798.00		
30.0	246.00	305.00	374.00	455.00	551.00	663.00	794.00	853.00	948.00
35.0	245.00	302.00	371.00	451.00	546.00	658.00	790.00	848.00	944.00
40.0		300.00	367.00	447.00	542.00	653.00	785.00	844.00	940.00
45.0			364.00	443.00	536.00	647.00	779.00	838.00	936.00
50.0			361.00	439.00	531.00	642.00	774.00	834.00	932.00
55.0				435.00	527.00	638.00	771.00	831.00	932.00
60.0					526.00	637.00	772.00	834.00	937.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	87.5
Length/Width, mm	448/392
Height, mm	715
Net Weight, kg	176
Gross Weight, kg	201
Rotalock Suction, inch	2 1/4 x 12 UN
Rotalock Discharge, inch	1 3/4 x 12 UN
Oil Quantity, l	6.3
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	266.7 x 266.7 (22.6)
Sound Pressure @ 1m (MT), dBA	78
Sound Power (MT), dBA	89
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	26.9
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

50 Hz

ZB220KCE-TWM

R404A Dew Point

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

Maximum Operating Current, A	69
Locked Rotor Current, A	310
Winding Resistance, ohm	0.36
Default Enclosure Class	IP 56

ACCESSORIES INCLUDED

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermistor

ACCESSORIES OPTIONAL

Rotalock valves	suction and discharge
Crankcase Heater	95 W External
Oil Control System	ALCO Trax-Oil OM3
Mounting Grommets	Hard Mounts for Paralleling

MOTOR OPTIONS

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