



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	10.25	12.65	15.45	18.75					
15.0	9.74	12.00	14.65	17.75	21.40				
20.0	9.23	11.35	13.90	16.80	20.20	24.00			
25.0	8.71	10.70	13.05	15.80	18.95	22.60	26.70		
30.0	8.18	10.05	12.25	14.80	17.75	21.10	25.00	26.70	29.40
35.0	7.63	9.39	11.45	13.80	16.55	19.65	23.30	24.80	27.40
40.0	7.07	8.71	10.60	12.75	15.30	18.20	21.50	23.00	25.30
45.0	6.50	8.00	9.74	11.75	14.05	16.70	19.75	21.10	23.30
50.0		7.28	8.86	10.70	12.75	15.20	18.00	19.20	21.20
55.0		6.54	7.97	9.60	11.50	13.65	16.20	17.30	19.10
60.0			7.06	8.51	10.20	12.15	14.40	15.40	17.00

50 Hz

ZB56KCE-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	2.69	2.73	2.79	2.89					
15.0	3.06	3.09	3.13	3.21	3.32				
20.0	3.46	3.49	3.52	3.58	3.67	3.80			
25.0	3.90	3.93	3.96	4.00	4.07	4.18	4.33		
30.0	4.37	4.41	4.45	4.48	4.53	4.61	4.73	4.80	4.91
35.0	4.88	4.94	4.98	5.01	5.05	5.11	5.20	5.25	5.34
40.0	5.42	5.50	5.55	5.59	5.62	5.67	5.74	5.77	5.85
45.0	6.00	6.11	6.17	6.22	6.25	6.28	6.34	6.36	6.42
50.0		6.74	6.83	6.89	6.93	6.96	7.00	7.02	7.06
55.0		7.42	7.54	7.61	7.66	7.69	7.73	7.74	7.77
60.0			8.28	8.38	8.45	8.49	8.52	8.53	8.55

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	9.39	9.45	9.53	9.65					
15.0	9.59	9.64	9.72	9.82	9.96				
20.0	9.84	9.90	9.97	10.06	10.18	10.32			
25.0	10.16	10.22	10.29	10.38	10.49	10.61	10.75		
30.0	10.56	10.63	10.70	10.78	10.88	10.99	11.11	11.16	11.24
35.0	11.05	11.12	11.20	11.28	11.37	11.47	11.57	11.61	11.68
40.0	11.63	11.72	11.80	11.89	11.98	12.06	12.15	12.18	12.24
45.0	12.32	12.43	12.52	12.61	12.70	12.78	12.85	12.88	12.92
50.0		13.25	13.36	13.46	13.55	13.62	13.69	13.72	13.75
55.0		14.21	14.33	14.44	14.54	14.61	14.68	14.70	14.72
60.0			15.45	15.57	15.67	15.75	15.81	15.83	15.85

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	57.60	71.40	87.90	107.50					
15.0	57.10	70.80	87.00	106.00	128.50				
20.0	56.60	70.10	86.10	105.00	127.00	153.00			
25.0	56.00	69.30	85.10	103.50	125.50	151.00	181.50		
30.0	55.30	68.50	84.00	102.50	124.00	149.00	179.00	192.50	214.00
35.0	54.60	67.60	82.80	101.00	122.00	147.00	176.50	190.00	212.00
40.0	53.70	66.50	81.60	99.30	120.00	145.00	174.00	187.50	209.00
45.0	52.70	65.40	80.30	97.70	118.50	142.50	172.00	185.00	206.00
50.0		64.20	78.80	96.00	116.50	140.50	169.50	182.50	204.00
55.0		62.90	77.40	94.40	114.50	138.50	167.50	180.50	202.00
60.0			76.10	93.00	113.00	137.00	166.50	180.00	202.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	20.9
Length/Width, mm	316/357
Height, mm	525
Net Weight, kg	87
Gross Weight, kg	93
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
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 (22.4)
Sound Pressure @ 1m (MT), dBA	67
Sound Power (MT), dBA	78
Sound Power with Sound Shell (MT), dBA	68
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	19.8
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

ZB56KCE-TWD

R404A Dew Point

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

Maximum Operating Current, A	15.4
Locked Rotor Current, A	99
Winding Resistance, ohm	1.41
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

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

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