



Minimum Evaporating Temp. With:

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

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	10.80	13.90	17.45	21.50	26.10	31.20					
15.0	10.25	13.25	16.75	20.70	25.20	30.20	35.80				
20.0	9.73	12.60	15.95	19.80	24.10	29.00	34.40	40.50			
25.0		11.95	15.15	18.80	23.00	27.70	32.90	38.80	45.30		
30.0			14.30	17.75	21.70	26.20	31.30	36.90	43.20	50.10	53.00
35.0			13.45	16.65	20.40	24.60	29.40	34.80	40.80	47.40	50.30
40.0				15.55	18.95	22.90	27.40	32.50	38.20	44.50	47.30
45.0				14.35	17.45	21.10	25.30	30.00	35.40	41.40	44.00
50.0					15.85	19.15	22.90	27.30	32.30	38.00	40.40
55.0					14.20	17.05	20.50	24.50	29.10	34.30	36.60
60.0						14.90	17.90	21.50	25.60	30.40	32.50

50 Hz

ZS11M4E-TWD

R404A Dew Point

Cond °C	Power, kW										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	5.13	5.47	5.81	6.18	6.60	7.11					
15.0	5.46	5.84	6.20	6.58	6.99	7.46	8.03				
20.0	5.82	6.24	6.63	7.02	7.43	7.89	8.42	9.05			
25.0		6.67	7.10	7.51	7.93	8.38	8.88	9.48	10.20		
30.0			7.62	8.06	8.49	8.94	9.43	10.00	10.65	11.45	11.80
35.0			8.20	8.68	9.13	9.59	10.05	10.60	11.25	11.95	12.30
40.0				9.36	9.85	10.30	10.80	11.35	11.95	12.60	12.90
45.0				10.15	10.65	11.15	11.65	12.15	12.75	13.40	13.65
50.0					11.55	12.10	12.60	13.10	13.70	14.30	14.55
55.0					12.55	13.10	13.65	14.20	14.75	15.35	15.60
60.0						14.25	14.85	15.40	15.95	16.55	16.80

Cond °C	Current at 400 V, A										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	14.01	14.36	14.70	15.07	15.52	16.08					
15.0	14.32	14.73	15.12	15.51	15.96	16.50	17.17				
20.0	14.66	15.15	15.59	16.02	16.48	17.01	17.65	18.44			
25.0		15.62	16.13	16.60	17.09	17.62	18.24	18.99	19.91		
30.0			16.73	17.27	17.79	18.34	18.96	19.68	20.55	21.61	22.09
35.0			17.42	18.03	18.60	19.18	19.80	20.51	21.35	22.35	22.80
40.0				18.89	19.53	20.14	20.79	21.49	22.30	23.26	23.69
45.0				19.87	20.58	21.25	21.92	22.64	23.44	24.36	24.77
50.0					21.77	22.50	23.22	23.96	24.76	25.66	26.05
55.0					23.10	23.91	24.68	25.45	26.27	27.16	27.55
60.0						25.49	26.33	27.15	27.98	28.88	29.26

Cond °C	Suction Mass Flow, g/s										
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0
10.0	60.20	77.70	97.90	121.00	147.50	177.50					
15.0	59.50	77.10	97.70	121.50	148.50	179.00	214.00				
20.0	59.00	76.70	97.30	121.00	148.50	180.00	215.00	255.00			
25.0		76.30	96.90	121.00	148.50	180.00	216.00	257.00	303.00		
30.0			96.30	120.00	148.00	179.50	216.00	257.00	305.00	358.00	382.00
35.0			95.80	119.00	146.50	178.50	215.00	257.00	305.00	360.00	384.00
40.0				118.00	145.00	176.50	213.00	256.00	304.00	361.00	385.00
45.0				116.50	142.50	173.50	210.00	253.00	302.00	360.00	385.00
50.0					140.00	170.00	206.00	249.00	299.00	358.00	384.00
55.0					136.50	166.00	201.00	244.00	295.00	355.00	382.00
60.0						161.00	195.50	238.00	290.00	352.00	380.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	42.1
Length/Width, mm	324/294
Height, mm	579
Net Weight, kg	106
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	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	72
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

50 Hz

ZS11M4E-TWD

R404A Dew Point

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

Maximum Operating Current, A	29.9
Locked Rotor Current, A	198
Winding Resistance, ohm	0.72
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Standard
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### **ACCESSORIES OPTIONAL**

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

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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