



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	10.30	12.50	15.25	18.65	22.70	27.50					
15.0	9.49	11.70	14.40	17.65	21.60	26.20	31.60				
20.0	8.73	10.90	13.55	16.70	20.50	24.90	30.00	36.00			
25.0		10.20	12.75	15.80	19.40	23.60	28.40	34.10	40.50		
30.0			12.00	14.90	18.30	22.20	26.80	32.10	38.20	45.00	48.00
35.0			11.20	14.00	17.20	20.90	25.20	30.10	35.80	42.20	45.00
40.0				13.05	16.05	19.50	23.50	28.00	33.30	39.20	41.90
45.0				12.10	14.85	18.00	21.70	25.90	30.70	36.20	38.60
50.0					13.60	16.45	19.80	23.60	28.00	33.00	35.20
55.0					12.30	14.85	17.80	21.20	25.20	29.70	31.70
60.0						13.15	15.75	18.75	22.20	26.20	28.00

50 Hz

ZS92K4E-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	3.92	4.22	4.52	4.85	5.21	5.62					
15.0	4.29	4.61	4.93	5.26	5.61	5.99	6.43				
20.0	4.63	5.00	5.34	5.68	6.03	6.41	6.82	7.28			
25.0		5.38	5.76	6.13	6.49	6.86	7.26	7.70	8.19		
30.0			6.19	6.60	6.98	7.36	7.76	8.18	8.65	9.17	9.40
35.0			6.63	7.09	7.51	7.91	8.32	8.74	9.19	9.68	9.89
40.0				7.60	8.07	8.51	8.94	9.36	9.81	10.30	10.50
45.0				8.14	8.67	9.16	9.62	10.05	10.50	11.00	11.20
50.0					9.31	9.85	10.35	10.85	11.30	11.80	12.00
55.0					9.99	10.60	11.15	11.70	12.20	12.70	12.90
60.0						11.40	12.05	12.65	13.15	13.70	13.90

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	11.01	11.19	11.43	11.73	12.10	12.56					
15.0	11.31	11.53	11.79	12.10	12.47	12.90	13.42				
20.0	11.59	11.88	12.18	12.52	12.89	13.32	13.82	14.39			
25.0		12.24	12.60	12.98	13.38	13.82	14.30	14.85	15.47		
30.0			13.06	13.49	13.93	14.39	14.89	15.42	16.01	16.67	16.95
35.0			13.54	14.05	14.55	15.05	15.56	16.11	16.69	17.31	17.58
40.0				14.66	15.23	15.78	16.34	16.90	17.49	18.11	18.36
45.0				15.32	15.98	16.60	17.21	17.82	18.42	19.04	19.30
50.0					16.79	17.51	18.19	18.85	19.49	20.13	20.39
55.0					17.68	18.50	19.27	19.99	20.69	21.37	21.64
60.0						19.58	20.45	21.26	22.03	22.75	23.04

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	57.50	69.90	85.50	105.00	128.50	156.50					
15.0	55.00	68.00	84.00	103.50	127.00	155.50	188.50				
20.0	52.90	66.40	82.70	102.50	126.00	154.50	187.50	227.00			
25.0		65.00	81.60	101.50	125.50	153.50	186.50	226.00	271.00		
30.0			80.70	100.50	124.50	152.50	185.50	224.00	269.00	322.00	346.00
35.0			79.80	99.90	123.50	151.50	184.00	222.00	267.00	320.00	344.00
40.0				99.00	122.50	150.00	182.50	220.00	265.00	318.00	341.00
45.0				98.10	121.50	148.50	180.50	218.00	262.00	315.00	338.00
50.0					120.00	146.50	178.00	215.00	259.00	311.00	335.00
55.0					118.00	144.50	175.00	212.00	255.00	307.00	331.00
60.0						141.50	172.00	208.00	251.00	304.00	327.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	35.6
Length/Width, mm	316/357
Height, mm	532
Net Weight, kg	96.2
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	72
Sound Power (MT), dBA	83
Sound Power with Sound Shell (MT), dBA	69
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	20.2
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	25.1
Locked Rotor Current, A	167
Winding Resistance, ohm	0.83
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)
Rotalock valves	suction and discharge
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