



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	8.53	10.45	12.75	15.45	18.60	22.30					
15.0	7.60	9.56	11.85	14.50	17.60	21.20	25.30				
20.0	6.81	8.77	11.05	13.65	16.65	20.10	24.10	28.70			
25.0		8.10	10.30	12.85	15.75	19.05	22.90	27.30	32.20		
30.0			9.65	12.10	14.85	18.05	21.70	25.80	30.50	35.90	38.20
35.0			9.03	11.35	13.95	16.95	20.40	24.30	28.70	33.80	36.00
40.0				10.60	13.05	15.85	19.05	22.70	26.90	31.60	33.60
45.0				9.82	12.10	14.70	17.60	21.00	24.80	29.20	31.20
50.0					11.05	13.40	16.10	19.15	22.70	26.70	28.50
55.0					9.92	12.00	14.40	17.15	20.30	24.00	25.60
60.0						10.45	12.55	14.95	17.80	21.00	22.50

50 Hz

ZS75K4E-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	3.54	3.72	3.95	4.24	4.63	5.15					
15.0	3.84	4.04	4.25	4.52	4.86	5.31	5.87				
20.0	4.15	4.38	4.61	4.86	5.17	5.56	6.05	6.67			
25.0		4.74	4.99	5.26	5.55	5.90	6.33	6.87	7.54		
30.0			5.42	5.70	6.00	6.33	6.72	7.19	7.78	8.50	8.83
35.0			5.86	6.19	6.50	6.83	7.20	7.63	8.15	8.78	9.07
40.0				6.71	7.06	7.40	7.76	8.16	8.63	9.19	9.45
45.0				7.26	7.67	8.04	8.41	8.80	9.23	9.74	9.96
50.0					8.31	8.74	9.13	9.53	9.94	10.40	10.60
55.0					9.00	9.48	9.92	10.35	10.75	11.20	11.40
60.0						10.30	10.80	11.25	11.65	12.10	12.30

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	10.80	11.00	11.24	11.55	11.98	12.58					
15.0	11.03	11.24	11.46	11.73	12.09	12.59	13.26				
20.0	11.27	11.54	11.77	12.02	12.34	12.75	13.31	14.07			
25.0		11.87	12.15	12.41	12.70	13.07	13.55	14.19	15.04		
30.0			12.58	12.88	13.18	13.52	13.95	14.50	15.23	16.18	16.63
35.0			13.05	13.42	13.76	14.10	14.50	14.99	15.63	16.46	16.85
40.0				14.02	14.42	14.79	15.19	15.65	16.23	16.96	17.31
45.0				14.65	15.15	15.58	16.01	16.47	17.01	17.67	17.98
50.0					15.94	16.46	16.94	17.43	17.96	18.59	18.87
55.0					16.77	17.41	17.98	18.52	19.07	19.68	19.96
60.0						18.42	19.10	19.72	20.32	20.95	21.22

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	47.50	58.40	71.50	87.00	105.50	127.00					
15.0	44.10	55.60	69.10	85.00	103.50	125.50	151.50				
20.0	41.30	53.30	67.30	83.60	102.50	124.50	150.50	180.50			
25.0		51.60	65.90	82.50	101.50	124.00	150.00	180.50	216.00		
30.0			64.90	81.70	101.00	123.50	149.50	180.00	215.00	257.00	275.00
35.0			64.20	81.10	100.50	123.00	149.00	179.50	215.00	257.00	275.00
40.0				80.40	99.80	122.00	148.00	178.50	214.00	256.00	274.00
45.0				79.70	98.90	121.00	147.00	177.00	212.00	254.00	273.00
50.0					97.50	119.00	144.50	174.50	210.00	252.00	271.00
55.0					95.40	116.50	141.50	171.00	206.00	248.00	267.00
60.0						113.00	137.00	166.00	201.00	244.00	263.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	28.9
Length/Width, mm	316/357
Height, mm	525
Net Weight, kg	100
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	70
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

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

Maximum Operating Current, A	21.7
Locked Rotor Current, A	127
Winding Resistance, ohm	1.02
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermistor

### **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