



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	
25.0	7.19	9.17	11.50	14.25	17.45	21.20	25.50	30.40	32.60	36.10				
30.0	6.47	8.49	10.80	13.50	16.60	20.10	24.20	28.90	30.90	34.20	37.10	40.10		
35.0		7.67	10.00	12.65	15.65	19.05	22.90	27.30	29.20	32.30	35.00	37.90		
40.0			9.05	11.65	14.60	17.90	21.60	25.70	27.60	30.40	33.00	35.70	41.60	
45.0				10.55	13.45	16.60	20.20	24.10	25.80	28.50	30.90	33.50	39.00	
50.0					12.10	15.20	18.60	22.40	24.00	26.50	28.80	31.20	36.30	
55.0						13.65	16.90	20.50	22.00	24.40	26.60	28.80	33.60	
60.0							15.00	18.45	19.85	22.10	24.10	26.20	30.70	
65.0								16.05	17.40	19.55	21.40	23.30	27.40	

50 Hz

ZP103KCE-TFD

R410A Dew Point

Cond °C	Power, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	3.86	3.97	4.02	4.03	4.02	4.00	4.00	4.03	4.06	4.11			
30.0	4.36	4.47	4.51	4.52	4.51	4.50	4.51	4.55	4.58	4.65	4.72	4.82	
35.0		5.03	5.07	5.07	5.05	5.03	5.04	5.08	5.11	5.18	5.26	5.37	
40.0			5.72	5.70	5.66	5.63	5.62	5.65	5.69	5.75	5.83	5.93	6.21
45.0				6.44	6.37	6.31	6.28	6.30	6.32	6.38	6.45	6.55	6.81
50.0					7.22	7.12	7.06	7.04	7.06	7.10	7.16	7.24	7.49
55.0						8.08	7.97	7.92	7.91	7.93	7.97	8.04	8.25
60.0							9.06	8.95	8.93	8.92	8.93	8.98	9.15
65.0								10.15	10.10	10.10	10.05	10.10	10.20

Cond °C	Current at 400 V, A												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	9.35	9.47	9.52	9.52	9.49	9.46	9.44	9.47	9.49	9.55			
30.0	9.80	9.92	9.98	9.98	9.96	9.94	9.94	9.99	10.03	10.10	10.19	10.30	
35.0		10.49	10.53	10.53	10.50	10.48	10.49	10.54	10.58	10.66	10.76	10.88	
40.0			11.22	11.19	11.15	11.11	11.11	11.15	11.19	11.28	11.37	11.49	11.83
45.0				12.02	11.94	11.88	11.85	11.87	11.90	11.97	12.06	12.18	12.51
50.0					12.92	12.81	12.74	12.73	12.75	12.80	12.87	12.98	13.28
55.0						13.96	13.83	13.77	13.77	13.79	13.85	13.93	14.20
60.0							15.16	15.03	15.00	14.99	15.01	15.07	15.28
65.0								16.55	16.49	16.43	16.42	16.44	16.59

Cond °C	Suction Mass Flow, g/s												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	40.30	50.70	62.70	76.70	92.90	111.50	133.00	157.00	167.50	184.50			
30.0	38.00	49.20	61.80	76.10	92.40	111.00	132.00	156.00	166.00	182.50	197.50	213.00	
35.0		46.80	60.10	75.00	91.60	110.00	131.00	154.50	165.00	181.00	195.50	211.00	
40.0			57.60	73.10	90.20	109.00	130.00	153.50	163.50	179.50	194.00	209.00	241.00
45.0				70.30	88.10	107.50	129.00	152.50	162.50	178.50	192.50	207.00	239.00
50.0					85.00	105.00	127.00	151.00	161.00	177.00	191.00	206.00	238.00
55.0						102.00	124.50	149.00	159.00	175.50	189.50	204.00	236.00
60.0							121.00	146.00	157.00	173.50	188.00	203.00	235.00
65.0								143.00	154.00	171.00	186.00	201.00	234.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	16.8
Length/Width, mm	281/285
Height, mm	533
Net Weight, kg	60.8
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.25
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	63
Sound Power (HT), dBA	74
Sound Power with Sound Shell (HT), dBA	66
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	21
Locked Rotor Current, A	111
Winding Resistance, ohm	1.37
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
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### **ACCESSORIES OPTIONAL**

Mounting Grommets	Rubber Grommet For Single
Mounting Grommets	Hard Mounts for Paralleling

50 Hz

ZP103KCE-TFD

R410A Dew Point

## **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>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04