



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	7.11	9.23	11.65	14.45	17.65	21.40	25.70	30.70	32.90	36.50				
30.0	6.50	8.62	11.00	13.70	16.80	20.40	24.50	29.20	31.30	34.70	37.70	40.90		
35.0		7.92	10.25	12.90	15.90	19.30	23.20	27.70	29.70	32.90	35.70	38.70		
40.0			9.44	12.00	14.90	18.15	21.90	26.10	28.00	31.00	33.70	36.50	42.80	
45.0				11.00	13.80	16.90	20.40	24.50	26.20	29.00	31.60	34.30	40.20	
50.0					12.60	15.55	18.90	22.70	24.40	27.00	29.40	31.90	37.50	
55.0						14.10	17.30	20.90	22.40	24.90	27.10	29.50	34.70	
60.0							15.50	18.85	20.30	22.60	24.70	26.90	31.70	
65.0								16.60	17.90	20.00	21.90	23.90	28.30	

50 Hz

ZP104KCE-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	4.06	4.10	4.14	4.17	4.21	4.25	4.30	4.37	4.41	4.46			
30.0	4.50	4.54	4.57	4.60	4.63	4.66	4.70	4.76	4.79	4.83	4.88	4.93	
35.0		5.05	5.08	5.10	5.12	5.14	5.17	5.22	5.24	5.27	5.31	5.35	
40.0			5.66	5.68	5.69	5.71	5.73	5.75	5.77	5.80	5.82	5.86	5.94
45.0				6.34	6.35	6.36	6.37	6.38	6.39	6.41	6.42	6.45	6.51
50.0					7.11	7.11	7.10	7.10	7.11	7.11	7.12	7.14	7.18
55.0						7.96	7.95	7.94	7.93	7.93	7.93	7.94	7.96
60.0							8.91	8.89	8.88	8.86	8.86	8.85	8.86
65.0								9.96	9.94	9.92	9.91	9.90	9.88

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	10.59	10.63	10.66	10.69	10.72	10.76	10.81	10.90	10.95	11.03			
30.0	10.93	10.98	11.02	11.05	11.07	11.10	11.14	11.21	11.25	11.31	11.38	11.45	
35.0		11.42	11.47	11.50	11.52	11.54	11.57	11.62	11.65	11.69	11.74	11.80	
40.0			12.03	12.06	12.08	12.09	12.11	12.14	12.16	12.20	12.23	12.28	12.40
45.0				12.75	12.77	12.78	12.79	12.80	12.81	12.83	12.86	12.89	12.98
50.0					13.61	13.62	13.62	13.62	13.62	13.63	13.64	13.66	13.72
55.0						14.63	14.62	14.61	14.60	14.60	14.60	14.61	14.64
60.0							15.82	15.79	15.78	15.77	15.76	15.75	15.75
65.0								17.19	17.18	17.15	17.13	17.12	17.09

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	39.80	51.00	63.50	77.70	93.90	112.50	134.00	158.50	169.50	186.50			
30.0	38.20	49.90	62.80	77.30	93.60	112.00	133.50	157.50	168.50	185.50	201.00	217.00	
35.0		48.30	61.70	76.50	93.00	111.50	132.50	157.00	167.50	184.00	199.50	215.00	
40.0			60.00	75.20	92.00	110.50	132.00	156.00	166.50	183.00	198.00	214.00	249.00
45.0				73.30	90.50	109.50	130.50	154.50	165.00	181.50	196.50	212.00	247.00
50.0					88.40	107.50	129.00	153.00	163.50	180.00	195.00	211.00	245.00
55.0						105.50	127.50	151.50	162.00	178.50	193.50	209.00	244.00
60.0							125.00	149.50	160.00	177.00	192.00	208.00	243.00
65.0								147.50	158.50	175.50	191.00	207.00	242.00

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

Displacement @ 50 Hz, m <sup>3</sup> /h	16.8
Length/Width, mm	297/262
Height, mm	559
Net Weight, kg	48.8
Stub Suction, inch	1 1/8
Stub Discharge, inch	7/8
Oil Quantity, l	2.51
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (19)
Sound Pressure @ 1m (HT), dBA	60
Sound Power (HT), dBA	71
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	7.40
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	18.2
Locked Rotor Current, A	128
Winding Resistance, ohm	1.38
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

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

### **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