



Minimum Evaporating Temp. With:

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

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	3.18	4.08	5.09	6.23	7.54	9.06	9.74	10.85	11.80
30.0	2.89	3.79	4.79	5.90	7.16	8.62	9.26	10.30	11.25
35.0	2.56	3.47	4.45	5.53	6.75	8.14	8.75	9.74	10.65
40.0	2.20	3.11	4.08	5.13	6.30	7.62	8.21	9.14	9.99
45.0		2.73	3.68	4.69	5.82	7.08	7.63	8.52	9.31
50.0			3.24	4.23	5.30	6.50	7.02	7.85	8.60
55.0				3.74	4.76	5.89	6.38	7.16	7.85
60.0					4.18	5.24	5.69	6.41	7.06
65.0						4.52	4.94	5.60	6.19

50 Hz

ZP31K5E-TFD

R410A Dew Point

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	1.33	1.34	1.32	1.30	1.26	1.22	1.20	1.18	1.17
30.0	1.49	1.50	1.48	1.46	1.42	1.38	1.37	1.34	1.33
35.0	1.67	1.68	1.68	1.65	1.62	1.58	1.56	1.54	1.52
40.0	1.88	1.89	1.89	1.86	1.84	1.80	1.78	1.76	1.74
45.0		2.13	2.13	2.11	2.08	2.04	2.03	2.00	1.98
50.0			2.40	2.38	2.36	2.32	2.31	2.28	2.26
55.0				2.69	2.66	2.63	2.62	2.59	2.57
60.0					3.00	2.97	2.96	2.94	2.92
65.0						3.35	3.34	3.32	3.30

Cond °C	Current at 400 V, A								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	3.08	3.07	3.06	3.03	2.99	2.95	2.93	2.90	2.88
30.0	3.24	3.24	3.23	3.20	3.16	3.12	3.10	3.07	3.05
35.0	3.45	3.45	3.43	3.41	3.37	3.33	3.31	3.28	3.26
40.0	3.69	3.70	3.69	3.66	3.63	3.59	3.57	3.54	3.51
45.0		4.00	3.99	3.97	3.93	3.89	3.87	3.84	3.82
50.0			4.34	4.32	4.29	4.25	4.23	4.20	4.17
55.0				4.73	4.70	4.66	4.64	4.61	4.59
60.0					5.18	5.14	5.12	5.09	5.06
65.0						5.68	5.66	5.63	5.60

Cond °C	Suction Mass Flow, g/s								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
25.0	17.30	22.00	27.10	32.80	39.30	46.80	50.10	55.40	60.20
30.0	16.50	21.40	26.70	32.50	39.00	46.50	49.80	55.10	59.80
35.0	15.40	20.60	26.00	32.00	38.60	46.10	49.30	54.60	59.30
40.0	14.00	19.50	25.20	31.30	38.00	45.50	48.80	54.00	58.70
45.0		18.15	24.10	30.40	37.20	44.70	48.00	53.30	57.90
50.0			22.80	29.30	36.20	43.80	47.10	52.40	57.00
55.0				27.90	35.00	42.80	46.10	51.30	56.00
60.0					33.60	41.50	44.90	50.20	54.90
65.0						40.20	43.60	49.10	53.90

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

Displacement @ 50 Hz, m <sup>3</sup> /h	5.13
Length/Width, mm	243/243
Height, mm	388
Net Weight, kg	21.8
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
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	55
Sound Power (HT), dBA	66
Sound Conditions (HT, Temperatures:	5 / 50 / 15 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	2.00
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
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	6.5
Locked Rotor Current, A	38
Winding Resistance, ohm	5.87/5.87/4.86 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

### **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