



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	2.51	3.14	3.90	4.79	5.82	6.98	7.48	8.27	8.97
30.0	2.34	2.94	3.66	4.51	5.49	6.59	7.07	7.82	8.49
35.0	2.17	2.74	3.43	4.24	5.16	6.21	6.66	7.38	8.01
40.0	2.00	2.54	3.19	3.95	4.83	5.82	6.25	6.92	7.52
45.0		2.34	2.95	3.66	4.49	5.41	5.82	6.45	7.01
50.0			2.69	3.36	4.12	4.99	5.37	5.96	6.48
55.0				3.03	3.74	4.54	4.89	5.44	5.92
60.0					3.31	4.05	4.37	4.87	5.32
65.0						3.50	3.79	4.24	4.64

50 Hz

ZP23K3E-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	0.98	1.02	1.02	1.01	0.99	0.96	0.96	0.96	0.96
30.0	1.09	1.12	1.14	1.12	1.11	1.10	1.10	1.10	1.12
35.0	1.23	1.26	1.27	1.27	1.26	1.26	1.26	1.27	1.29
40.0	1.39	1.42	1.43	1.42	1.42	1.42	1.44	1.46	1.48
45.0		1.61	1.62	1.61	1.61	1.62	1.63	1.66	1.68
50.0			1.84	1.83	1.82	1.84	1.85	1.88	1.92
55.0				2.08	2.07	2.09	2.10	2.13	2.17
60.0					2.36	2.37	2.38	2.42	2.46
65.0						2.69	2.70	2.73	2.77

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	2.03	2.16	2.23	2.26	2.28	2.29	2.31	2.34	2.38
30.0	2.09	2.23	2.32	2.36	2.39	2.42	2.43	2.47	2.51
35.0	2.16	2.33	2.43	2.49	2.53	2.57	2.59	2.63	2.68
40.0	2.26	2.44	2.56	2.64	2.69	2.75	2.78	2.83	2.89
45.0		2.58	2.72	2.81	2.89	2.96	3.00	3.06	3.13
50.0			2.90	3.02	3.11	3.21	3.25	3.33	3.40
55.0				3.25	3.37	3.49	3.54	3.62	3.71
60.0					3.65	3.80	3.86	3.96	4.05
65.0						4.14	4.21	4.33	4.44

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	13.65	16.90	20.70	25.20	30.30	36.00	38.40	42.30	45.70
30.0	13.35	16.55	20.40	24.90	29.90	35.60	38.00	41.80	45.20
35.0	13.05	16.25	20.10	24.50	29.50	35.10	37.60	41.40	44.70
40.0	12.75	15.95	19.75	24.10	29.10	34.70	37.10	40.90	44.20
45.0		15.55	19.35	23.70	28.70	34.20	36.60	40.30	43.60
50.0			18.85	23.20	28.10	33.60	36.00	39.70	43.00
55.0				22.60	27.50	33.00	35.30	39.00	42.20
60.0					26.70	32.10	34.50	38.20	41.40
65.0						31.10	33.50	37.10	40.40

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

Displacement @ 50 Hz, m³/h	4.04
Length/Width, mm	246/246
Height, mm	362
Net Weight, kg	28.6
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.12
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	54
Sound Power (HT), dBA	65
Sound Power with Sound Shell (HT), dBA	58
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	2.90
High Side PS gauge, bar	45
Low Side PS gauge, bar	28
Low Side TS Max., °C	50
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	5.5
Locked Rotor Current, A	26
Winding Resistance, ohm	7.1
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
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50 Hz

ZP23K3E-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