



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	2.55	3.18	3.95	4.84	5.87	7.03	7.54	8.34	9.04
30.0	2.40	3.00	3.73	4.58	5.55	6.66	7.13	7.89	8.56
35.0	2.23	2.81	3.50	4.30	5.23	6.27	6.73	7.44	8.08
40.0	2.05	2.60	3.25	4.02	4.89	5.88	6.31	6.99	7.59
45.0		2.37	2.99	3.71	4.54	5.48	5.88	6.52	7.09
50.0			2.70	3.39	4.17	5.05	5.44	6.04	6.57
55.0				3.04	3.77	4.60	4.96	5.53	6.03
60.0					3.34	4.11	4.45	4.98	5.44
65.0						3.57	3.88	4.36	4.79

50 Hz

ZP24K5E-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	1.04	1.03	1.01	0.98	0.95	0.93	0.92	0.90	0.89
30.0	1.18	1.16	1.14	1.12	1.10	1.07	1.06	1.04	1.03
35.0	1.34	1.32	1.30	1.28	1.25	1.23	1.22	1.20	1.20
40.0	1.51	1.50	1.48	1.45	1.42	1.40	1.39	1.38	1.37
45.0		1.69	1.67	1.64	1.62	1.60	1.58	1.58	1.56
50.0			1.89	1.86	1.84	1.81	1.80	1.79	1.78
55.0				2.11	2.08	2.05	2.04	2.03	2.02
60.0					2.35	2.32	2.31	2.29	2.28
65.0						2.61	2.60	2.58	2.57

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	2.36	2.34	2.31	2.27	2.23	2.20	2.20	2.19	2.19
30.0	2.50	2.49	2.47	2.43	2.40	2.37	2.36	2.35	2.34
35.0	2.65	2.66	2.65	2.62	2.59	2.56	2.54	2.53	2.52
40.0	2.84	2.86	2.86	2.84	2.81	2.78	2.76	2.74	2.73
45.0		3.08	3.09	3.08	3.06	3.03	3.01	2.99	2.98
50.0			3.37	3.37	3.35	3.32	3.30	3.28	3.26
55.0				3.69	3.67	3.65	3.63	3.61	3.59
60.0					4.04	4.02	4.01	3.98	3.96
65.0						4.44	4.43	4.41	4.38

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	13.90	17.15	21.00	25.50	30.60	36.30	38.80	42.60	46.00
30.0	13.70	16.95	20.80	25.20	30.30	35.90	38.30	42.20	45.60
35.0	13.45	16.65	20.50	24.90	29.90	35.50	37.90	41.70	45.10
40.0	13.05	16.30	20.10	24.50	29.50	35.10	37.50	41.30	44.60
45.0		15.80	19.65	24.00	29.00	34.60	37.00	40.80	44.10
50.0			19.00	23.40	28.50	34.10	36.50	40.30	43.60
55.0				22.70	27.80	33.40	35.80	39.70	43.00
60.0					26.90	32.60	35.10	39.00	42.40
65.0						31.70	34.30	38.20	41.70

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	3.96
Length/Width, mm	236/236
Height, mm	387
Net Weight, kg	21.9
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 (8.5)
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	2.10
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
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	4.8
Locked Rotor Current, A	28
Winding Resistance, ohm	8.14/8.14/6.46 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Mounting Grommets	Rubber Grommet For Single
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**ACCESSORIES OPTIONAL**

Crankcase Heater	40 W External
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**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