



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	3.00	3.83	4.75	5.79	6.99	8.38	8.99	9.99	10.90
30.0	2.73	3.56	4.47	5.48	6.64	7.97	8.56	9.51	10.35
35.0	2.44	3.27	4.16	5.15	6.26	7.53	8.09	8.99	9.81
40.0	2.11	2.94	3.82	4.78	5.85	7.06	7.59	8.45	9.22
45.0		2.59	3.45	4.38	5.41	6.56	7.07	7.87	8.60
50.0			3.06	3.96	4.94	6.03	6.51	7.27	7.95
55.0				3.51	4.44	5.47	5.92	6.63	7.27
60.0					3.91	4.87	5.29	5.95	6.54
65.0						4.22	4.60	5.21	5.74

50 Hz

ZP29K5E-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	1.25	1.26	1.24	1.22	1.18	1.14	1.13	1.11	1.10
30.0	1.40	1.40	1.40	1.37	1.34	1.30	1.28	1.27	1.25
35.0	1.56	1.58	1.57	1.54	1.52	1.48	1.46	1.44	1.42
40.0	1.76	1.78	1.77	1.75	1.72	1.68	1.67	1.64	1.63
45.0		2.00	2.00	1.98	1.95	1.92	1.90	1.88	1.86
50.0			2.25	2.24	2.21	2.18	2.16	2.14	2.12
55.0				2.52	2.50	2.47	2.45	2.43	2.41
60.0					2.82	2.79	2.78	2.76	2.74
65.0						3.14	3.13	3.11	3.09

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	2.96	2.96	2.94	2.91	2.88	2.84	2.82	2.79	2.77
30.0	3.12	3.12	3.10	3.08	3.04	3.00	2.98	2.95	2.93
35.0	3.31	3.31	3.30	3.28	3.24	3.20	3.19	3.16	3.13
40.0	3.55	3.56	3.55	3.52	3.49	3.45	3.43	3.40	3.38
45.0		3.84	3.84	3.81	3.78	3.74	3.72	3.70	3.67
50.0			4.18	4.16	4.12	4.09	4.07	4.04	4.01
55.0				4.55	4.52	4.48	4.47	4.44	4.41
60.0					4.98	4.94	4.92	4.89	4.87
65.0						5.46	5.44	5.41	5.39

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	16.35	20.60	25.30	30.50	36.40	43.20	46.20	51.10	55.50
30.0	15.60	20.10	24.90	30.20	36.20	43.00	46.00	50.80	55.20
35.0	14.65	19.35	24.40	29.80	35.80	42.60	45.60	50.40	54.70
40.0	13.40	18.45	23.60	29.20	35.30	42.10	45.10	49.90	54.20
45.0		17.25	22.70	28.40	34.60	41.50	44.50	49.20	53.50
50.0			21.50	27.40	33.70	40.70	43.70	48.50	52.70
55.0				26.20	32.70	39.70	42.80	47.60	51.90
60.0					31.50	38.70	41.70	46.60	50.90
65.0						37.50	40.70	45.60	50.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	4.79
Length/Width, mm	246/246
Height, mm	387
Net Weight, kg	22.8
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 (8.5)
Sound Pressure @ 1m (HT), dBA	55
Sound Power (HT), dBA	66
Sound Power with Sound Shell (HT), dBA	59
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	I
Max. Internal Free Volume, l	2.00
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	6
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

Mounting Grommets	Rubber Grommet For Single
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ACCESSORIES OPTIONAL

Crankcase Heater	40 W External
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MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04