



Minimum Evaporating Temp. With:

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

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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	3.22	4.11	5.09	6.20	7.48	8.96	9.61	10.65	11.65
30.0	2.95	3.84	4.81	5.90	7.14	8.56	9.19	10.20	11.10
35.0	2.65	3.55	4.51	5.57	6.77	8.14	8.74	9.71	10.60
40.0	2.31	3.22	4.17	5.21	6.37	7.69	8.26	9.19	10.00
45.0		2.86	3.81	4.82	5.94	7.20	7.75	8.64	9.43
50.0			3.41	4.41	5.49	6.70	7.22	8.06	8.81
55.0				3.96	5.01	6.16	6.66	7.46	8.17
60.0					4.51	5.61	6.08	6.84	7.51
65.0						5.03	5.48	6.19	6.82

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	16.25	20.50	25.10	30.30	36.20	42.90	45.90	50.70	55.10
30.0	15.55	20.00	24.70	30.00	35.90	42.70	45.70	50.50	54.80
35.0	14.55	19.25	24.20	29.60	35.60	42.30	45.30	50.10	54.40
40.0	13.35	18.35	23.50	29.00	35.00	41.80	44.80	49.60	53.80
45.0		17.15	22.50	28.20	34.40	41.20	44.20	48.90	53.10
50.0			21.40	27.20	33.50	40.40	43.40	48.10	52.40
55.0				26.00	32.50	39.50	42.50	47.20	51.50
60.0					31.30	38.40	41.50	46.30	50.50
65.0						37.30	40.40	45.30	49.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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	1
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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50 Hz

ZP29K5E-TFD

R410A Dew Point

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