



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	3.41	4.38	5.45	6.67	8.07	9.69	10.40	11.55	12.60
30.0	3.12	4.09	5.16	6.35	7.70	9.26	9.95	11.05	12.05
35.0	2.78	3.77	4.82	5.99	7.30	8.80	9.45	10.50	11.45
40.0	2.42	3.41	4.45	5.59	6.86	8.30	8.93	9.94	10.85
45.0		3.01	4.05	5.16	6.39	7.77	8.37	9.34	10.20
50.0			3.62	4.71	5.89	7.21	7.79	8.71	9.53
55.0				4.23	5.37	6.63	7.18	8.05	8.83
60.0					4.82	6.02	6.54	7.37	8.10
65.0						5.39	5.89	6.66	7.36

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	17.20	21.90	26.90	32.60	39.00	46.50	49.70	55.00	59.70
30.0	16.40	21.30	26.50	32.30	38.80	46.20	49.40	54.70	59.40
35.0	15.30	20.50	25.90	31.80	38.30	45.80	49.00	54.20	58.90
40.0	13.95	19.40	25.10	31.10	37.70	45.20	48.40	53.60	58.30
45.0		18.10	24.00	30.20	36.90	44.40	47.70	52.90	57.50
50.0			22.70	29.10	36.00	43.50	46.80	52.00	56.60
55.0				27.70	34.80	42.50	45.80	51.00	55.60
60.0					33.40	41.30	44.60	49.90	54.60
65.0						40.00	43.40	48.70	53.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/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

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