



Minimum Evaporating Temp. With:

- 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
27.0	4.42	5.56	6.88	8.41	10.20	12.25	13.20		
30.0	4.27	5.40	6.67	8.15	9.87	11.85	12.75	14.20	
35.0	3.99	5.09	6.31	7.72	9.33	11.20	12.05	13.40	14.60
40.0	3.67	4.74	5.93	7.26	8.78	10.55	11.30	12.55	13.70
45.0		4.36	5.50	6.77	8.21	9.85	10.60	11.75	12.80
50.0			5.03	6.24	7.60	9.14	9.82	10.90	11.90
55.0				5.67	6.95	8.39	9.02	10.05	10.95
60.0					6.23	7.57	8.16	9.09	9.92
65.0						6.66	7.20	8.05	8.81

50 Hz

ZPD42K5E-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
27.0	1.68	1.74	1.78	1.80	1.78	1.74	1.70		
30.0	1.80	1.84	1.88	1.91	1.91	1.86	1.84	1.77	
35.0	2.00	2.05	2.09	2.12	2.13	2.11	2.09	2.03	1.98
40.0	2.25	2.29	2.33	2.37	2.39	2.38	2.36	2.33	2.28
45.0		2.57	2.61	2.65	2.68	2.68	2.67	2.65	2.61
50.0			2.93	2.97	3.00	3.02	3.01	3.00	2.97
55.0				3.33	3.37	3.39	3.39	3.38	3.37
60.0					3.77	3.80	3.80	3.80	3.80
65.0						4.25	4.26	4.27	4.26

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
27.0	3.35	3.41	3.45	3.48	3.46	3.40	3.35		
30.0	3.49	3.55	3.60	3.63	3.63	3.58	3.54	3.47	
35.0	3.77	3.83	3.88	3.92	3.94	3.91	3.89	3.83	3.77
40.0	4.11	4.16	4.22	4.26	4.29	4.28	4.27	4.23	4.19
45.0		4.56	4.61	4.66	4.70	4.71	4.70	4.68	4.64
50.0			5.08	5.13	5.17	5.19	5.19	5.18	5.16
55.0				5.68	5.72	5.75	5.75	5.75	5.74
60.0					6.36	6.39	6.40	6.41	6.40
65.0						7.13	7.14	7.15	7.15

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
27.0	24.50	30.50	37.30	45.00	54.00	64.40	69.00		
30.0	24.40	30.40	37.20	44.90	53.80	64.00	68.50	75.80	
35.0	24.00	30.20	37.00	44.60	53.40	63.40	67.90	75.00	81.40
40.0	23.30	29.70	36.60	44.30	53.00	62.90	67.20	74.20	80.50
45.0		29.00	36.10	43.80	52.50	62.30	66.60	73.50	79.60
50.0			35.30	43.20	51.90	61.60	65.90	72.70	78.80
55.0				42.30	51.10	60.90	65.10	71.90	78.00
60.0					50.20	60.10	64.40	71.20	77.20
65.0						59.20	63.60	70.50	76.60

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	6.93
Length/Width, mm	243/243
Height, mm	464
Net Weight, kg	30.9
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	66
Sound Power (HT), dBA	77
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	2.60
High Side PS gauge, bar	43
Low Side PS gauge, bar	28
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	7.9
Locked Rotor Current, A	52
Winding Resistance, ohm	3.2
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Mounting Grommets	Rubber Grommet For Single
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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
TFM	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04