



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	9.16	11.35	13.80	16.65	19.85	23.50	25.10	27.60	29.90
30.0	8.76	10.90	13.30	16.10	19.25	22.80	24.40	26.90	29.10
35.0	8.10	10.15	12.50	15.15	18.20	21.70	23.20	25.60	27.80
40.0	7.43	9.39	11.60	14.15	17.10	20.40	21.90	24.20	26.30
45.0		8.60	10.70	13.10	15.90	19.10	20.50	22.70	24.80
50.0			9.76	12.05	14.65	17.70	19.00	21.10	23.10
55.0				10.90	13.35	16.20	17.45	19.45	21.30
60.0					11.95	14.55	15.75	17.60	19.30
65.0						12.80	13.85	15.55	17.10

50 Hz

ZPD83KCE-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	3.57	3.60	3.63	3.64	3.63	3.57	3.53	3.46	3.37
30.0	3.81	3.85	3.88	3.90	3.90	3.87	3.84	3.78	3.72
35.0	4.25	4.27	4.31	4.34	4.36	4.36	4.34	4.31	4.27
40.0	4.75	4.76	4.78	4.82	4.85	4.86	4.86	4.85	4.82
45.0		5.31	5.32	5.35	5.38	5.41	5.41	5.41	5.40
50.0			5.94	5.95	5.98	6.01	6.02	6.03	6.03
55.0				6.66	6.67	6.69	6.70	6.71	6.72
60.0					7.46	7.47	7.47	7.48	7.49
65.0						8.36	8.36	8.36	8.37

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	8.16	8.18	8.21	8.24	8.25	8.20	8.16	8.08	7.98
30.0	8.42	8.43	8.46	8.50	8.51	8.48	8.45	8.38	8.29
35.0	8.85	8.85	8.88	8.93	8.95	8.95	8.93	8.87	8.81
40.0	9.33	9.32	9.35	9.40	9.44	9.45	9.45	9.41	9.37
45.0		9.86	9.88	9.94	9.99	10.03	10.03	10.02	9.99
50.0			10.51	10.56	10.63	10.69	10.70	10.71	10.70
55.0				11.30	11.39	11.46	11.49	11.51	11.52
60.0					12.27	12.37	12.41	12.45	12.47
65.0						13.44	13.48	13.54	13.58

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	50.80	62.10	74.80	89.00	105.00	123.00	131.00	143.50	155.00
30.0	50.00	61.40	74.20	88.60	105.00	123.00	131.00	144.00	155.00
35.0	48.70	60.20	73.10	87.60	104.00	122.50	130.50	143.50	155.00
40.0	47.20	58.80	71.80	86.40	103.00	122.00	130.00	143.00	154.50
45.0		57.20	70.30	85.00	101.50	120.50	129.00	142.00	154.00
50.0			68.50	83.30	100.00	119.00	127.50	141.00	153.00
55.0				81.40	98.20	117.50	126.00	139.50	151.50
60.0					96.10	115.50	124.00	138.00	150.00
65.0						113.50	122.50	136.00	149.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	13.4
Length/Width, mm	246/246
Height, mm	494
Net Weight, kg	40.8
Gross Weight, kg	45
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.77
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	64
Sound Power (HT), dBA	75
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	5.80
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	16.5
Locked Rotor Current, A	101
Winding Resistance, ohm	1.79
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