



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
25.0	9.40	11.60	14.10	16.95	20.20	23.90	25.50	28.10	
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	7.42	9.39	11.60	14.15	17.10	20.40	21.90	24.20	26.30
45.0		8.59	10.70	13.15	15.90	19.10	20.50	22.70	24.70
50.0			9.76	12.05	14.65	17.65	19.00	21.10	23.00
55.0				10.90	13.35	16.15	17.40	19.45	21.20
60.0					11.95	14.55	15.75	17.60	19.30
65.0						12.80	13.85	15.55	17.10

50 Hz

ZP83KCE-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	3.03	3.06	3.10	3.14	3.19	3.27	3.31	3.38	
30.0	3.45	3.48	3.51	3.55	3.60	3.67	3.70	3.76	3.82
35.0	3.91	3.94	3.97	4.00	4.04	4.10	4.13	4.18	4.24
40.0	4.43	4.46	4.48	4.51	4.54	4.59	4.61	4.66	4.70
45.0		5.05	5.07	5.08	5.10	5.14	5.16	5.19	5.23
50.0			5.73	5.74	5.75	5.77	5.78	5.81	5.84
55.0				6.49	6.49	6.49	6.50	6.51	6.53
60.0					7.34	7.33	7.32	7.33	7.33
65.0						8.28	8.27	8.26	8.25

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	7.47	7.51	7.55	7.59	7.65	7.73	7.77	7.84	
30.0	7.94	7.98	8.02	8.06	8.11	8.19	8.23	8.30	8.36
35.0	8.48	8.52	8.55	8.59	8.64	8.71	8.75	8.81	8.87
40.0	9.12	9.16	9.18	9.21	9.26	9.32	9.35	9.41	9.46
45.0		9.91	9.92	9.95	9.98	10.02	10.05	10.10	10.15
50.0			10.80	10.80	10.82	10.85	10.87	10.91	10.95
55.0				11.81	11.81	11.83	11.84	11.86	11.89
60.0					12.97	12.96	12.97	12.98	13.00
65.0						14.28	14.28	14.27	14.28

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	51.20	62.40	75.00	89.20	105.00	123.00	131.00	143.50	
30.0	50.00	61.40	74.20	88.60	105.00	123.00	131.00	143.50	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					96.20	115.50	124.00	138.00	150.00
65.0						114.00	122.50	136.50	149.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	13.4
Length/Width, mm	246/246
Height, mm	443
Net Weight, kg	39.5
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	61
Sound Power (HT), dBA	72
Sound Power with Sound Shell (HT), dBA	67
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	4.30
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	15
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
Discharge Temperature Protection	Internal Thermodisk

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Enclosure Class	IP 54

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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFE	500 V / 3~ / 50 Hz	500		Y	0.80
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TFE	575 V / 3~ / 60 Hz	575		Y	0.80
TF7	380 V / 3~ / 60 Hz	380		Y	1.26