



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0	20.0	
25.0	7.66	9.92	12.50	15.45	18.90	22.90	27.50	32.80	39.00				
30.0	7.03	9.32	11.85	14.75	18.10	21.90	26.30	31.40	37.20	40.40	43.90		
35.0		8.62	11.15	14.00	17.20	20.90	25.10	29.90	35.50	38.50	41.80		
40.0			10.35	13.10	16.25	19.80	23.80	28.40	33.70	36.60	39.70	46.50	
45.0				12.15	15.20	18.60	22.50	26.90	31.90	34.60	37.50	44.00	
50.0					14.05	17.35	21.00	25.20	30.00	32.60	35.40	41.50	
55.0						15.95	19.50	23.50	28.00	30.50	33.10	38.90	
60.0							17.85	21.70	26.00	28.30	30.80	36.30	
65.0								19.75	23.80	26.10	28.40	33.60	

50 Hz

ZP104KCE-TFD

R410A Dew Point

Cond °C	Power, kW											
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0	20.0
25.0	4.06	4.10	4.14	4.17	4.21	4.25	4.30	4.37	4.46			
30.0	4.50	4.54	4.57	4.60	4.63	4.66	4.70	4.76	4.83	4.88	4.93	
35.0		5.05	5.08	5.10	5.12	5.14	5.17	5.22	5.27	5.31	5.35	
40.0			5.66	5.68	5.69	5.71	5.73	5.75	5.80	5.82	5.86	5.94
45.0				6.34	6.35	6.36	6.37	6.38	6.41	6.42	6.45	6.51
50.0					7.11	7.11	7.10	7.10	7.11	7.12	7.14	7.18
55.0						7.96	7.95	7.94	7.93	7.93	7.94	7.96
60.0							8.91	8.89	8.86	8.86	8.85	8.86
65.0								9.96	9.92	9.91	9.90	9.88

Cond °C	Current at 380 V, A											
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0	20.0
25.0	10.59	10.63	10.66	10.69	10.72	10.76	10.81	10.90	11.03			
30.0	10.93	10.98	11.02	11.05	11.07	11.10	11.14	11.21	11.31	11.38	11.45	
35.0		11.42	11.47	11.50	11.52	11.54	11.57	11.62	11.69	11.74	11.80	
40.0			12.03	12.06	12.08	12.09	12.11	12.14	12.20	12.23	12.28	12.40
45.0				12.75	12.77	12.78	12.79	12.80	12.83	12.86	12.89	12.98
50.0					13.61	13.62	13.62	13.62	13.63	13.64	13.66	13.72
55.0						14.63	14.62	14.61	14.60	14.60	14.61	14.64
60.0							15.82	15.79	15.77	15.76	15.75	15.75
65.0								17.19	17.15	17.13	17.12	17.09

Cond °C	Suction Mass Flow, g/s											
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	10.0	12.5	15.0	20.0
25.0	39.60	50.70	63.10	77.20	93.30	112.00	133.00	157.50	185.00			
30.0	38.00	49.70	62.50	76.80	93.00	111.50	132.50	156.50	184.00	199.00	215.00	
35.0		48.00	61.40	76.00	92.40	111.00	132.00	156.00	183.00	198.00	214.00	
40.0			59.70	74.80	91.40	110.00	131.00	155.00	181.50	196.50	212.00	247.00
45.0				72.90	89.90	109.00	130.00	153.50	180.50	195.00	211.00	245.00
50.0					87.80	107.00	128.50	152.00	179.00	193.50	209.00	243.00
55.0						105.00	126.50	150.50	177.50	192.00	208.00	242.00
60.0							124.00	148.50	176.00	190.50	206.00	241.00
65.0								146.50	174.50	189.50	205.00	240.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	16.8
Length/Width, mm	297/262
Height, mm	559
Net Weight, kg	48.8
Stub Suction, inch	1 1/8
Stub Discharge, inch	7/8
Oil Quantity, l	2.51
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	60
Sound Power (HT), dBA	71
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	7.40
High Side PS gauge, bar	45
Low Side PS gauge, bar	29.5
Low Side TS Max., °C	50
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	18.2
Locked Rotor Current, A	128
Winding Resistance, ohm	1.38
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
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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	380		Y	1.00