



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													
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	
25.0	8.50	11.10	14.00	17.30	21.00	25.20	29.90	35.20	37.40	41.00				
30.0	7.51	10.05	12.95	16.20	19.85	24.00	28.60	33.80	36.00	39.50	42.60	45.90		
35.0		9.04	11.85	15.00	18.60	22.60	27.10	32.20	34.30	37.80	40.80	44.00		
40.0			10.70	13.75	17.20	21.10	25.50	30.40	32.50	35.80	38.80	41.90	48.60	
45.0				12.45	15.75	19.45	23.70	28.40	30.40	33.60	36.50	39.50	46.00	
50.0					14.20	17.70	21.70	26.20	28.10	31.20	34.00	36.80	43.10	
55.0						15.90	19.60	23.80	25.60	28.60	31.10	33.90	39.90	
60.0							17.30	21.20	22.90	25.60	28.00	30.60	36.20	
65.0								18.30	19.85	22.30	24.50	26.90	32.00	

50 Hz

ZP120KCE-TFD

R410A Dew Point

Cond °C	Power, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	4.48	4.52	4.54	4.53	4.53	4.54	4.58	4.67	4.72	4.82			
30.0	5.07	5.13	5.15	5.14	5.13	5.13	5.15	5.21	5.25	5.32	5.41	5.51	
35.0		5.80	5.82	5.82	5.80	5.78	5.78	5.81	5.83	5.89	5.95	6.03	
40.0			6.58	6.57	6.55	6.51	6.49	6.49	6.51	6.54	6.58	6.64	6.82
45.0				7.44	7.40	7.35	7.31	7.28	7.28	7.29	7.32	7.36	7.48
50.0					8.38	8.31	8.25	8.20	8.18	8.17	8.18	8.19	8.27
55.0						9.42	9.33	9.25	9.22	9.19	9.18	9.17	9.20
60.0							10.60	10.45	10.45	10.40	10.35	10.30	10.30
65.0								11.85	11.80	11.75	11.70	11.65	11.60

Cond °C	Current at 400 V, A												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	9.81	9.85	9.87	9.87	9.88	9.89	9.92	9.99	10.04	10.11			
30.0	10.51	10.55	10.57	10.57	10.56	10.56	10.58	10.63	10.67	10.73	10.79	10.88	
35.0		11.37	11.39	11.38	11.36	11.35	11.35	11.37	11.39	11.44	11.49	11.55	
40.0			12.35	12.33	12.30	12.26	12.24	12.24	12.25	12.27	12.31	12.36	12.50
45.0				13.45	13.40	13.35	13.30	13.27	13.27	13.27	13.28	13.31	13.41
50.0					14.72	14.64	14.56	14.49	14.47	14.46	14.45	14.46	14.51
55.0						16.15	16.04	15.94	15.91	15.86	15.84	15.82	15.82
60.0							17.79	17.65	17.60	17.53	17.48	17.43	17.38
65.0								19.65	19.58	19.48	19.40	19.33	19.23

Cond °C	Suction Mass Flow, g/s												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
25.0	47.60	61.20	76.40	93.20	112.00	133.00	156.00	181.50	192.50	210.00			
30.0	44.10	58.30	73.90	91.30	110.50	132.00	156.00	182.00	193.50	211.00	227.00	243.00	
35.0		55.20	71.20	89.00	109.00	130.50	155.00	182.00	193.50	212.00	228.00	245.00	
40.0			68.20	86.20	106.50	128.50	153.50	181.00	193.00	212.00	228.00	245.00	282.00
45.0				83.10	103.50	126.00	151.50	179.50	191.50	210.00	227.00	245.00	283.00
50.0					99.80	122.50	148.00	176.50	189.00	208.00	225.00	243.00	282.00
55.0						118.50	144.00	173.00	185.00	205.00	222.00	241.00	280.00
60.0							139.50	168.00	180.50	201.00	218.00	237.00	277.00
65.0								163.00	175.50	195.50	213.00	232.00	274.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	19.8
Length/Width, mm	281/285
Height, mm	533
Net Weight, kg	61.2
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.25
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	63
Sound Power (HT), dBA	74
Sound Power with Sound Shell (HT), dBA	66
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	13.3
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	22
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
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ACCESSORIES OPTIONAL

Mounting Grommets	Hard Mounts for Paralleling
Mounting Grommets	Rubber Grommet For Single

50 Hz

ZP120KCE-TFD

R410A Dew Point

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