



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	6.72	8.56	10.70	13.25	16.15	19.60	23.60	28.10	33.30				
30.0	6.13	7.99	10.10	12.55	15.40	18.65	22.40	26.80	31.70	34.40	37.30		
35.0		7.35	9.46	11.85	14.60	17.75	21.30	25.50	30.20	32.70	35.50		
40.0			8.74	11.10	13.75	16.80	20.20	24.10	28.60	31.00	33.60	39.30	
45.0				10.25	12.85	15.75	19.05	22.80	27.00	29.30	31.80	37.20	
50.0					11.85	14.65	17.80	21.40	25.40	27.60	29.90	35.00	
55.0						13.45	16.50	19.85	23.70	25.80	28.00	32.80	
60.0							15.00	18.25	21.90	23.80	25.90	30.50	
65.0								16.50	19.95	21.80	23.80	28.10	

50 Hz

ZP91KCE-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	3.47	3.48	3.50	3.54	3.57	3.58	3.55	3.48	3.35			
30.0	3.91	3.89	3.91	3.94	3.98	4.00	4.01	3.97	3.88	3.82	3.73	
35.0		4.36	4.36	4.38	4.42	4.45	4.47	4.47	4.42	4.37	4.31	
40.0			4.87	4.88	4.90	4.94	4.97	4.98	4.96	4.94	4.90	4.77
45.0				5.45	5.46	5.49	5.52	5.54	5.54	5.53	5.51	5.42
50.0					6.09	6.11	6.13	6.16	6.18	6.17	6.16	6.10
55.0						6.82	6.83	6.86	6.88	6.88	6.88	6.84
60.0							7.64	7.65	7.67	7.67	7.67	7.65
65.0								8.56	8.56	8.57	8.57	8.56

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	8.67	8.63	8.64	8.67	8.70	8.70	8.66	8.54	8.31			
30.0	9.13	9.06	9.06	9.09	9.14	9.17	9.16	9.10	8.94	8.83	8.68	
35.0		9.56	9.53	9.55	9.59	9.64	9.67	9.65	9.55	9.47	9.36	
40.0			10.08	10.08	10.11	10.16	10.21	10.22	10.17	10.12	10.04	9.80
45.0				10.71	10.72	10.77	10.82	10.85	10.84	10.80	10.75	10.58
50.0					11.46	11.48	11.53	11.57	11.58	11.57	11.53	11.41
55.0						12.35	12.38	12.42	12.44	12.43	12.42	12.33
60.0							13.40	13.42	13.44	13.44	13.44	13.38
65.0								14.62	14.63	14.63	14.63	14.59

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	34.80	43.70	54.10	66.00	79.80	95.70	114.00	135.00	158.50			
30.0	33.10	42.60	53.20	65.30	79.10	94.90	113.00	133.50	157.00	169.50	183.00	
35.0		41.00	52.10	64.40	78.40	94.20	112.00	132.50	155.50	168.00	181.50	
40.0			50.50	63.30	77.40	93.30	111.00	131.50	154.00	166.50	180.00	209.00
45.0				61.50	76.10	92.20	110.00	130.50	153.00	165.50	178.50	207.00
50.0					74.10	90.60	108.50	129.00	151.50	164.00	177.00	205.00
55.0						88.30	107.00	127.50	150.00	162.50	175.50	204.00
60.0							104.00	125.00	148.00	160.50	173.50	202.00
65.0								122.50	146.00	158.50	172.00	201.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	14.7
Length/Width, mm	243/248
Height, mm	443
Net Weight, kg	40.8
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
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	16.2
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**

Enclosure Class	IP 54
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50 Hz

ZP91KCE-TFD

R410A Dew Point

## **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	380		Y	1.00