



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	15.0
10.0	6.52	8.20	10.20	12.55						
15.0	6.16	7.79	9.71	11.95	14.60					
20.0	5.80	7.37	9.22	11.40	13.90	16.80				
25.0	5.42	6.95	8.73	10.80	13.20	15.95	17.15	19.15		
30.0	5.02	6.50	8.21	10.20	12.50	15.10	16.25	18.15	19.80	21.60
35.0	4.59	6.03	7.68	9.57	11.75	14.25	15.35	17.10	18.70	20.40
40.0	4.12	5.52	7.11	8.91	11.00	13.35	14.40	16.05	17.55	19.15
45.0		4.97	6.49	8.22	10.20	12.40	13.40	14.95	16.40	17.90
50.0			5.83	7.47	9.32	11.45	12.35	13.85	15.15	16.55
55.0				6.66	8.41	10.40	11.25	12.65	13.85	15.20
60.0					7.40	9.24	10.05	11.35	12.45	13.70
65.0						7.97	8.71	9.88	10.95	12.05

50 Hz

ZP54K5E-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	15.0
10.0	1.34	1.30	1.25	1.18						
15.0	1.58	1.55	1.51	1.46	1.42					
20.0	1.82	1.80	1.77	1.74	1.70	1.66				
25.0	2.07	2.06	2.04	2.01	1.98	1.96	1.95	1.94		
30.0	2.35	2.34	2.33	2.30	2.28	2.26	2.26	2.25	2.25	2.25
35.0	2.68	2.67	2.65	2.63	2.60	2.58	2.58	2.58	2.58	2.58
40.0	3.07	3.05	3.02	2.99	2.96	2.94	2.94	2.93	2.93	2.93
45.0		3.49	3.45	3.41	3.38	3.35	3.34	3.33	3.33	3.33
50.0			3.96	3.91	3.86	3.82	3.80	3.79	3.78	3.77
55.0				4.48	4.42	4.36	4.34	4.31	4.30	4.29
60.0					5.07	4.99	4.96	4.92	4.90	4.88
65.0						5.72	5.68	5.63	5.59	5.56

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	15.0
10.0	3.03	2.98	2.90	2.81						
15.0	3.30	3.27	3.21	3.15	3.08					
20.0	3.59	3.57	3.53	3.49	3.43	3.38				
25.0	3.91	3.90	3.87	3.84	3.80	3.76	3.75	3.73		
30.0	4.29	4.28	4.25	4.22	4.19	4.16	4.16	4.14	4.14	4.14
35.0	4.73	4.72	4.69	4.66	4.63	4.60	4.60	4.59	4.59	4.59
40.0	5.27	5.24	5.21	5.17	5.13	5.10	5.09	5.08	5.08	5.08
45.0		5.87	5.81	5.76	5.71	5.67	5.66	5.64	5.64	5.63
50.0			6.53	6.46	6.39	6.33	6.31	6.29	6.28	6.27
55.0				7.28	7.18	7.10	7.07	7.04	7.01	6.99
60.0					8.11	8.00	7.96	7.91	7.87	7.84
65.0						9.04	8.99	8.91	8.86	8.81

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	15.0
10.0	31.40	39.10	48.10	58.60						
15.0	30.80	38.50	47.50	58.00	70.00					
20.0	30.20	38.00	47.00	57.40	69.40	83.10				
25.0	29.50	37.40	46.40	56.80	68.70	82.30	88.30	97.80		
30.0	28.70	36.70	45.80	56.10	68.00	81.50	87.40	96.90	105.50	114.50
35.0	27.60	35.80	44.90	55.40	67.20	80.70	86.50	95.90	104.50	113.00
40.0	26.20	34.60	43.90	54.40	66.30	79.70	85.50	94.90	103.00	112.00
45.0		33.10	42.60	53.20	65.10	78.50	84.30	93.60	102.00	110.50
50.0			40.90	51.70	63.70	77.10	82.90	92.20	100.50	109.50
55.0				49.70	61.90	75.40	81.30	90.60	98.90	107.50
60.0					59.60	73.40	79.30	88.70	97.10	106.00
65.0						70.90	76.90	86.50	95.00	104.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	8.90
Length/Width, mm	246/246
Height, mm	418
Net Weight, kg	34
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	59
Sound Power (HT), dBA	70
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	3.10
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

50 Hz

ZP54K5E-TFD

R410A Dew Point

### **COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	10.3
Locked Rotor Current, A	51.5
Winding Resistance, ohm	3.48
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Rubber Grommet For Single
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### **ACCESSORIES OPTIONAL**

Crankcase Heater	40 W External
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### **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	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04