



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	4.90	6.21	7.75	9.55						
15.0	4.69	5.96	7.45	9.18	11.20					
20.0	4.45	5.69	7.13	8.79	10.70	12.90				
25.0	4.18	5.38	6.77	8.37	10.20	12.30	13.20	14.70		
30.0	3.88	5.05	6.39	7.93	9.68	11.70	12.55	13.95	15.20	16.50
35.0	3.54	4.68	5.98	7.45	9.13	11.05	11.85	13.20	14.35	15.65
40.0	3.17	4.28	5.53	6.94	8.54	10.35	11.15	12.40	13.50	14.70
45.0		3.84	5.05	6.40	7.92	9.64	10.40	11.60	12.65	13.75
50.0			4.53	5.82	7.26	8.89	9.59	10.70	11.70	12.75
55.0				5.19	6.55	8.08	8.75	9.80	10.75	11.75
60.0					5.79	7.22	7.84	8.82	9.69	10.60
65.0						6.26	6.83	7.73	8.53	9.37

50 Hz

ZP42K5E-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	1.10	1.06	1.04	1.01						
15.0	1.31	1.28	1.25	1.23	1.20					
20.0	1.52	1.49	1.46	1.44	1.41	1.38				
25.0	1.75	1.72	1.68	1.65	1.62	1.59	1.58	1.56		
30.0	2.00	1.96	1.92	1.88	1.84	1.82	1.80	1.78	1.76	1.74
35.0	2.29	2.23	2.18	2.14	2.10	2.06	2.04	2.02	2.00	1.97
40.0	2.62	2.55	2.49	2.43	2.38	2.33	2.31	2.28	2.26	2.23
45.0		2.92	2.85	2.78	2.71	2.65	2.63	2.59	2.56	2.53
50.0			3.27	3.18	3.10	3.02	3.00	2.95	2.92	2.88
55.0				3.65	3.56	3.46	3.43	3.38	3.33	3.29
60.0					4.09	3.98	3.94	3.87	3.82	3.77
65.0						4.58	4.53	4.45	4.39	4.33

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	2.43	2.41	2.39	2.37						
15.0	2.69	2.67	2.65	2.63	2.61					
20.0	2.95	2.93	2.91	2.90	2.87	2.84				
25.0	3.25	3.22	3.20	3.17	3.15	3.11	3.10	3.07		
30.0	3.58	3.54	3.51	3.48	3.45	3.42	3.40	3.37	3.34	3.31
35.0	3.97	3.92	3.87	3.83	3.80	3.75	3.73	3.70	3.67	3.64
40.0	4.44	4.36	4.30	4.25	4.20	4.15	4.12	4.09	4.06	4.02
45.0		4.89	4.81	4.74	4.67	4.61	4.58	4.54	4.50	4.46
50.0			5.41	5.32	5.24	5.15	5.12	5.07	5.03	4.98
55.0				6.01	5.90	5.80	5.76	5.70	5.65	5.59
60.0					6.69	6.57	6.52	6.44	6.38	6.32
65.0						7.46	7.40	7.31	7.24	7.16

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	23.60	29.60	36.60	44.60						
15.0	23.50	29.50	36.50	44.50	53.70					
20.0	23.20	29.30	36.30	44.30	53.50	63.80				
25.0	22.80	29.00	36.00	44.00	53.20	63.50	67.90	75.10		
30.0	22.10	28.50	35.60	43.70	52.70	63.00	67.50	74.60	80.90	87.60
35.0	21.30	27.80	35.00	43.10	52.20	62.40	66.90	74.00	80.20	86.90
40.0	20.10	26.80	34.20	42.40	51.50	61.80	66.20	73.20	79.50	86.10
45.0		25.60	33.10	41.40	50.70	60.90	65.40	72.40	78.60	85.20
50.0			31.80	40.20	49.60	59.90	64.40	71.40	77.70	84.30
55.0				38.70	48.20	58.70	63.20	70.30	76.60	83.20
60.0					46.60	57.30	61.80	69.00	75.40	82.10
65.0						55.70	60.30	67.70	74.20	81.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	6.90
Length/Width, mm	246/246
Height, mm	418
Net Weight, kg	31
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	57
Sound Power (HT), dBA	68
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	3.40
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

ZP42K5E-TFD

R410A Dew Point

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

Maximum Operating Current, A	8
Locked Rotor Current, A	43
Winding Resistance, ohm	4.64
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**

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04