



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
27.0	6.26	7.61	9.18	11.00	13.10	15.55	16.60		
30.0	6.04	7.37	8.90	10.70	12.75	15.10	16.15	17.80	
35.0	5.65	6.94	8.42	10.10	12.05	14.30	15.30	16.90	18.30
40.0	5.22	6.47	7.89	9.52	11.40	13.50	14.45	15.95	17.25
45.0		5.96	7.32	8.87	10.65	12.65	13.55	14.95	16.20
50.0			6.71	8.18	9.85	11.75	12.55	13.90	15.10
55.0				7.43	9.00	10.80	11.55	12.80	13.90
60.0					8.07	9.72	10.45	11.60	12.60
65.0						8.53	9.19	10.25	11.20

50 Hz

ZPD54K5E-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
27.0	2.28	2.27	2.25	2.23	2.20	2.18	2.17		
30.0	2.44	2.44	2.42	2.39	2.37	2.35	2.34	2.34	
35.0	2.76	2.75	2.72	2.70	2.67	2.65	2.65	2.64	2.64
40.0	3.12	3.11	3.08	3.05	3.02	3.00	2.99	2.98	2.98
45.0		3.53	3.50	3.46	3.42	3.39	3.38	3.37	3.36
50.0			3.98	3.93	3.88	3.84	3.82	3.81	3.80
55.0				4.48	4.42	4.36	4.34	4.31	4.30
60.0					5.04	4.96	4.94	4.90	4.87
65.0						5.66	5.62	5.58	5.54

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
27.0	4.76	4.77	4.75	4.72	4.69	4.65	4.64		
30.0	5.02	5.02	5.01	4.98	4.94	4.91	4.90	4.88	
35.0	5.45	5.46	5.45	5.42	5.38	5.34	5.32	5.30	5.29
40.0	5.92	5.94	5.93	5.89	5.85	5.80	5.78	5.75	5.73
45.0		6.47	6.46	6.43	6.37	6.31	6.29	6.25	6.23
50.0			7.09	7.04	6.98	6.91	6.88	6.84	6.80
55.0				7.78	7.70	7.62	7.58	7.53	7.49
60.0					8.57	8.47	8.42	8.36	8.30
65.0						9.48	9.43	9.35	9.28

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
27.0	34.70	41.70	49.70	59.00	69.50	81.60	86.90		
30.0	34.50	41.50	49.60	58.80	69.40	81.40	86.70	95.10	
35.0	34.00	41.10	49.30	58.50	69.10	81.00	86.30	94.70	102.00
40.0	33.20	40.50	48.80	58.10	68.60	80.60	85.80	94.10	101.50
45.0		39.70	48.10	57.50	68.00	80.00	85.20	93.50	101.00
50.0			47.10	56.60	67.20	79.20	84.40	92.70	100.00
55.0				55.50	66.20	78.30	83.50	91.80	99.20
60.0					65.00	77.10	82.40	90.80	98.20
65.0						75.90	81.20	89.70	97.30

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

Displacement @ 50 Hz, m <sup>3</sup> /h	8.90
Length/Width, mm	236/236
Height, mm	479
Net Weight, kg	34.7
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 (8.5)
Sound Pressure @ 1m (HT), dBA	67
Sound Power (HT), dBA	78
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	4.80
High Side PS gauge, bar	43
Low Side PS gauge, bar	28
Refrigerant's GWP	2088
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	62
Winding Resistance, ohm	2.78
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

### **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
TFM	380-420 V / 3~ / 50 Hz	400		Y	1.00