



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 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
27.0	4.44	5.80	7.41	9.31	11.55	14.15	15.30	17.15	18.80	20.60
30.0	4.27	5.61	7.18	9.03	11.20	13.75	14.85	16.65	18.30	20.10
35.0	3.99	5.27	6.78	8.54	10.60	13.05	14.10	15.85	17.45	19.10
40.0	3.69	4.92	6.35	8.03	10.00	12.30	13.35	15.00	16.50	18.10
45.0		4.55	5.90	7.49	9.36	11.55	12.50	14.10	15.55	17.05
50.0			5.44	6.93	8.69	10.75	11.65	13.15	14.50	15.95
55.0				6.36	8.00	9.93	10.80	12.20	13.45	14.85
60.0					7.30	9.09	9.89	11.20	12.40	13.65
65.0					6.59	8.23	8.97	10.20	11.30	12.45

50 Hz

ZRD48KCE-TFD

R407C 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
27.0	1.84	1.91	1.96	1.99	2.04	2.10	2.13	2.20	2.27	2.35
30.0	1.96	2.04	2.09	2.12	2.16	2.21	2.24	2.29	2.35	2.42
35.0	2.17	2.26	2.32	2.37	2.40	2.44	2.46	2.51	2.55	2.61
40.0	2.37	2.50	2.59	2.64	2.68	2.72	2.74	2.78	2.81	2.86
45.0		2.74	2.86	2.94	3.00	3.05	3.07	3.10	3.14	3.18
50.0			3.14	3.25	3.34	3.40	3.43	3.47	3.50	3.54
55.0				3.57	3.69	3.78	3.82	3.87	3.91	3.95
60.0					4.05	4.18	4.22	4.29	4.34	4.40
65.0					4.40	4.57	4.64	4.72	4.79	4.86

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
27.0	3.84	3.91	3.91	3.86	3.79	3.73	3.71	3.69	3.68	3.70
30.0	4.00	4.08	4.09	4.04	3.96	3.88	3.85	3.82	3.81	3.81
35.0	4.26	4.37	4.39	4.35	4.28	4.18	4.15	4.10	4.07	4.06
40.0	4.53	4.68	4.73	4.71	4.64	4.55	4.51	4.46	4.42	4.39
45.0		5.01	5.10	5.11	5.06	4.98	4.94	4.89	4.85	4.82
50.0			5.50	5.55	5.53	5.47	5.44	5.40	5.36	5.32
55.0				6.04	6.06	6.03	6.01	5.98	5.95	5.92
60.0					6.64	6.66	6.65	6.63	6.62	6.60
65.0					7.27	7.34	7.36	7.37	7.37	7.37

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
27.0	25.30	32.50	40.80	50.50	61.70	74.50	80.10	89.20	97.30	106.00
30.0	25.00	32.30	40.60	50.30	61.50	74.30	79.90	89.00	97.10	105.50
35.0	24.50	31.80	40.20	49.80	61.00	73.80	79.40	88.40	96.50	105.00
40.0	23.90	31.20	39.50	49.10	60.20	73.00	78.60	87.60	95.70	104.50
45.0		30.40	38.70	48.30	59.30	72.00	77.60	86.60	94.60	103.00
50.0			37.90	47.30	58.30	70.90	76.40	85.30	93.40	102.00
55.0				46.30	57.10	69.50	75.00	83.90	91.90	100.50
60.0					55.80	68.10	73.50	82.30	90.30	98.70
65.0					54.50	66.60	72.00	80.70	88.50	97.00

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

Displacement @ 50 Hz, m³/h	11.4
Length/Width, mm	241/241
Height, mm	465
Net Weight, kg	32.7
Gross Weight, kg	36
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.36
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	64
Sound Power (HT), dBA	75
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	4.60
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	10
Locked Rotor Current, A	48
Winding Resistance, ohm	3.88
Default Enclosure Class	Not Available

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

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

50 Hz

ZRD48KCE-TFD

R407C 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	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04