



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
27.0	7.57	9.43	11.55	13.95	16.70	19.80	21.20	23.30	25.20
30.0	7.36	9.19	11.25	13.65	16.35	19.40	20.70	22.80	24.70
35.0	6.95	8.74	10.75	13.05	15.65	18.60	19.90	21.90	23.70
40.0	6.50	8.25	10.20	12.45	14.95	17.80	19.00	21.00	22.70
45.0		7.71	9.61	11.75	14.15	16.90	18.05	19.95	21.60
50.0			8.97	11.00	13.35	15.95	17.10	18.90	20.50
55.0			8.30	10.25	12.45	14.95	16.05	17.80	19.30
60.0				9.47	11.55	13.95	15.00	16.65	18.10
65.0					10.65	12.90	13.90	15.45	16.85

50 Hz

ZR72KCE-TFD

R22

Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	2.98	2.98	2.98	3.00	3.03	3.07	3.09	3.12	3.16
30.0	3.16	3.16	3.16	3.17	3.19	3.22	3.24	3.27	3.31
35.0	3.50	3.49	3.49	3.49	3.51	3.53	3.55	3.57	3.60
40.0	3.90	3.88	3.87	3.87	3.88	3.89	3.90	3.92	3.95
45.0		4.32	4.31	4.30	4.30	4.31	4.32	4.33	4.35
50.0			4.80	4.78	4.78	4.78	4.78	4.79	4.81
55.0			5.34	5.32	5.31	5.30	5.31	5.31	5.32
60.0				5.91	5.89	5.88	5.88	5.88	5.89
65.0					6.53	6.52	6.51	6.51	6.52

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	5.97	5.98	6.00	6.02	6.05	6.11	6.14	6.19	6.25
30.0	6.21	6.22	6.22	6.24	6.26	6.31	6.34	6.39	6.44
35.0	6.67	6.67	6.67	6.67	6.68	6.72	6.74	6.78	6.83
40.0	7.23	7.22	7.20	7.19	7.19	7.22	7.23	7.27	7.31
45.0		7.85	7.83	7.80	7.80	7.81	7.82	7.85	7.88
50.0			8.55	8.52	8.50	8.50	8.51	8.53	8.56
55.0			9.37	9.33	9.30	9.29	9.30	9.31	9.33
60.0				10.25	10.21	10.19	10.19	10.20	10.22
65.0					11.24	11.21	11.20	11.21	11.22

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	44.20	54.30	65.70	78.50	92.80	109.00	116.00	127.00	136.50
30.0	43.90	54.10	65.50	78.30	92.70	109.00	115.50	126.50	136.50
35.0	43.10	53.50	65.00	77.90	92.30	108.50	115.50	126.50	136.00
40.0	42.00	52.60	64.20	77.10	91.50	107.50	114.50	125.50	135.00
45.0		51.40	63.10	76.00	90.40	106.50	113.50	124.50	134.00
50.0			61.70	74.60	89.00	105.00	112.00	123.00	132.50
55.0			59.90	73.00	87.40	103.50	110.50	121.50	131.00
60.0				71.00	85.40	101.50	108.50	119.50	129.00
65.0					83.30	99.30	106.00	117.00	127.00

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

Displacement @ 50 Hz, m³/h	17.1
Length/Width, mm	246/246
Height, mm	451
Net Weight, kg	38.6
Gross Weight, kg	44
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.77
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	61
Sound Power (HT), dBA	72
Sound Power with Sound Shell (HT), dBA	66
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	1
Max. Internal Free Volume, l	4.10
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Low Side TS Max., °C	50
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	12.1
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	Internal Thermodisk
Mounting Grommets	Standard

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
------------------	---------------

### **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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09