



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	15.15	18.85	23.10	27.90	33.40	39.60	42.30	46.60	50.40
30.0	14.70	18.40	22.50	27.30	32.70	38.80	41.40	45.60	49.40
35.0	13.90	17.50	21.50	26.10	31.30	37.20	39.80	43.90	47.50
40.0	13.00	16.50	20.40	24.90	29.90	35.60	38.00	42.00	45.40
45.0		15.45	19.25	23.50	28.30	33.80	36.10	39.90	43.30
50.0			17.95	22.00	26.70	31.90	34.20	37.80	41.00
55.0				20.50	24.90	29.90	32.10	35.60	38.60
60.0					23.10	27.90	30.00	33.30	36.20
65.0					21.30	25.80	27.80	30.90	33.70

50 Hz

ZRT144KCE-TFD

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Cond °C	Power, kW								
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5
27.0	5.95	5.95	5.97	6.00	6.05	6.13	6.17	6.24	6.31
30.0	6.32	6.31	6.32	6.34	6.38	6.45	6.48	6.55	6.61
35.0	7.00	6.99	6.98	6.99	7.01	7.06	7.09	7.14	7.20
40.0	7.79	7.77	7.75	7.74	7.75	7.79	7.81	7.85	7.89
45.0		8.65	8.62	8.60	8.60	8.62	8.63	8.66	8.70
50.0			9.60	9.57	9.55	9.56	9.57	9.59	9.61
55.0				10.65	10.60	10.60	10.60	10.60	10.65
60.0					11.80	11.75	11.75	11.75	11.80
65.0					13.05	13.05	13.05	13.05	13.05

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	11.94	11.97	12.00	12.04	12.11	12.22	12.28	12.39	12.50
30.0	12.42	12.43	12.45	12.47	12.53	12.62	12.68	12.78	12.88
35.0	13.35	13.34	13.34	13.34	13.36	13.44	13.48	13.57	13.66
40.0	14.46	14.43	14.40	14.38	14.38	14.43	14.47	14.54	14.62
45.0		15.70	15.65	15.61	15.59	15.62	15.64	15.70	15.77
50.0			17.10	17.04	17.00	17.00	17.01	17.06	17.11
55.0				18.66	18.61	18.59	18.59	18.62	18.67
60.0					20.43	20.39	20.39	20.41	20.44
65.0					22.47	22.42	22.41	22.41	22.44

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	88.40	108.50	131.50	157.00	185.50	218.00	232.00	254.00	273.00
30.0	87.80	108.00	131.00	156.50	185.50	218.00	231.00	253.00	273.00
35.0	86.30	107.00	130.00	156.00	184.50	217.00	231.00	253.00	272.00
40.0	84.10	105.00	128.50	154.00	183.00	215.00	229.00	251.00	270.00
45.0		103.00	126.00	152.00	181.00	213.00	227.00	249.00	268.00
50.0			123.50	149.50	178.00	210.00	224.00	246.00	265.00
55.0				146.00	175.00	207.00	221.00	243.00	262.00
60.0					171.00	203.00	217.00	239.00	258.00
65.0					166.50	198.50	212.00	234.00	254.00

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

Displacement @ 50 Hz, m³/h	34.0
Length/Width, mm	626/297
Height, mm	478
Net Weight, kg	93
Gross Weight, kg	113
Stub Suction, inch	1 1/8
Stub Discharge, inch	3/4
Oil Quantity, l	3.37
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	546 x 190.5 (22.4)
Sound Pressure @ 1m (HT), dBA	64
Sound Power (HT), dBA	75
Sound Power with Sound Shell (HT), dBA	69
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
Max. Internal Free Volume, l	8.10
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Refrigerant's GWP	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	2 x 13
Locked Rotor Current, A	2 x 74
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Capacity Control	Capacity Steps 50%
Discharge Temperature Protection	Internal Thermodisk

### **ACCESSORIES OPTIONAL**

Crankcase Heater	2 x 70 W External
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50 Hz

ZRT144KCE-TFD

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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