



Minimum Evaporating Temp. With:

- 10 K Suction Superheat ASERCOM certified
- 25 °C Suction Gas Return
- 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
30.0	6.39	8.22	10.35	12.80	15.65	18.90	20.30	22.60	24.70	26.90
35.0	5.85	7.62	9.66	12.00	14.75	17.85	19.25	21.50	23.40	25.50
40.0	5.30	7.02	8.98	11.25	13.85	16.85	18.15	20.30	22.20	24.20
45.0		6.40	8.29	10.45	12.95	15.80	17.05	19.10	20.90	22.80
50.0			7.59	9.66	12.05	14.75	15.95	17.90	19.60	21.50
55.0				8.86	11.10	13.70	14.85	16.70	18.35	20.10
60.0					10.20	12.65	13.75	15.50	17.05	18.70
65.0					9.28	11.60	12.65	14.30	15.75	17.35
67.0						11.20	12.20	13.80	15.25	16.80

50 Hz

ZR72KCE-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
30.0	2.82	2.86	2.89	2.90	2.92	2.95	2.97	3.01	3.05	3.10
35.0	3.17	3.22	3.25	3.27	3.28	3.30	3.31	3.33	3.36	3.39
40.0	3.55	3.62	3.66	3.67	3.68	3.69	3.70	3.71	3.73	3.75
45.0		4.05	4.10	4.13	4.14	4.15	4.15	4.15	4.16	4.17
50.0			4.59	4.63	4.65	4.66	4.66	4.66	4.66	4.67
55.0				5.18	5.21	5.23	5.23	5.23	5.23	5.23
60.0					5.84	5.86	5.87	5.87	5.87	5.87
65.0					6.52	6.56	6.57	6.58	6.58	6.58
67.0						6.86	6.87	6.89	6.89	6.89

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
30.0	5.78	5.83	5.86	5.88	5.91	5.95	5.98	6.02	6.07	6.14
35.0	6.24	6.31	6.35	6.37	6.39	6.41	6.43	6.46	6.49	6.54
40.0	6.75	6.85	6.90	6.93	6.94	6.95	6.96	6.98	7.00	7.03
45.0		7.45	7.52	7.56	7.58	7.59	7.59	7.60	7.61	7.63
50.0			8.23	8.29	8.32	8.33	8.33	8.33	8.34	8.34
55.0				9.12	9.16	9.18	9.19	9.19	9.19	9.19
60.0					10.13	10.17	10.17	10.18	10.18	10.18
65.0					11.24	11.29	11.31	11.32	11.33	11.33
67.0						11.79	11.80	11.82	11.83	11.83

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
30.0	37.40	47.30	58.50	71.30	85.80	102.00	109.50	121.00	131.00	142.00
35.0	35.90	45.90	57.20	70.10	84.60	101.00	108.00	119.50	129.50	140.50
40.0	34.20	44.50	55.90	68.80	83.30	99.80	107.00	118.50	128.50	139.00
45.0		42.90	54.40	67.40	82.10	98.60	105.50	117.00	127.50	138.00
50.0			52.90	66.00	80.70	97.30	104.50	116.00	126.00	137.00
55.0				64.50	79.40	96.10	103.50	115.00	125.00	136.00
60.0					78.00	94.90	102.00	114.00	124.00	135.00
65.0					76.70	93.90	101.50	113.00	123.50	135.00
67.0						93.50	101.00	113.00	123.50	135.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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	1774
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
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MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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