



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	3.31	4.27	5.44	6.82	8.42	10.25	11.05	12.30	13.45	14.60
35.0	3.11	4.04	5.17	6.51	8.06	9.84	10.60	11.85	12.95	14.10
40.0	2.89	3.77	4.85	6.14	7.64	9.36	10.10	11.30	12.35	13.50
45.0		3.48	4.50	5.73	7.16	8.81	9.54	10.70	11.70	12.80
50.0			4.14	5.29	6.65	8.22	8.90	10.00	11.00	12.00
55.0				4.83	6.10	7.58	8.23	9.27	10.20	11.20
60.0					5.54	6.91	7.52	8.50	9.37	10.30
65.0					4.97	6.23	6.80	7.70	8.52	9.39
67.0						5.96	6.50	7.38	8.17	9.01

50 Hz

ZR40K3E-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	1.68	1.68	1.67	1.66	1.66	1.64	1.62	1.60	1.58	1.56
35.0	1.90	1.90	1.90	1.89	1.88	1.86	1.85	1.82	1.80	1.77
40.0	2.15	2.15	2.15	2.15	2.14	2.11	2.10	2.07	2.04	2.01
45.0		2.43	2.44	2.44	2.42	2.39	2.38	2.35	2.31	2.28
50.0			2.76	2.76	2.75	2.71	2.69	2.66	2.62	2.58
55.0				3.12	3.11	3.07	3.05	3.01	2.97	2.93
60.0					3.52	3.48	3.46	3.41	3.37	3.32
65.0					3.98	3.94	3.91	3.86	3.82	3.76
67.0						4.13	4.11	4.06	4.01	3.95

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	3.84	3.82	3.81	3.81	3.80	3.78	3.77	3.74	3.71	3.67
35.0	4.05	4.04	4.04	4.04	4.04	4.01	4.00	3.96	3.93	3.88
40.0	4.32	4.32	4.33	4.33	4.32	4.29	4.27	4.24	4.20	4.15
45.0		4.66	4.67	4.67	4.66	4.63	4.61	4.56	4.52	4.46
50.0			5.08	5.08	5.07	5.03	5.00	4.95	4.90	4.84
55.0				5.56	5.54	5.50	5.47	5.41	5.35	5.28
60.0					6.09	6.04	6.01	5.94	5.88	5.80
65.0					6.73	6.67	6.63	6.56	6.49	6.40
67.0						6.94	6.90	6.83	6.75	6.66

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	19.35	24.60	30.80	38.00	46.20	55.50	59.50	65.80	71.30	77.10
35.0	19.05	24.30	30.60	37.90	46.30	55.70	59.70	66.10	71.70	77.60
40.0	18.65	23.90	30.20	37.60	46.00	55.50	59.60	66.10	71.70	77.70
45.0		23.30	29.60	37.00	45.40	55.00	59.10	65.60	71.40	77.40
50.0			28.80	36.10	44.60	54.20	58.30	64.90	70.60	76.70
55.0				35.20	43.50	53.10	57.20	63.80	69.60	75.70
60.0					42.30	51.80	55.90	62.50	68.30	74.50
65.0					41.10	50.40	54.50	61.10	66.90	73.00
67.0						49.80	53.90	60.40	66.20	72.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	9.43
Length/Width, mm	242/242
Height, mm	400
Net Weight, kg	27
Gross Weight, kg	31
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.1
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	57
Sound Power (HT), dBA	68
Sound Power with Sound Shell (HT), dBA	60
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	3.10
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	7
Locked Rotor Current, A	46
Winding Resistance, ohm	4.03
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