



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	2.91	3.73	4.70	5.84	7.18	8.73	9.42	10.50	11.50	12.55
35.0	2.69	3.48	4.43	5.53	6.83	8.33	8.99	10.05	11.00	12.05
40.0	2.47	3.23	4.14	5.20	6.45	7.90	8.54	9.57	10.50	11.45
45.0		2.96	3.83	4.85	6.05	7.44	8.05	9.04	9.93	10.90
50.0			3.51	4.48	5.63	6.95	7.54	8.49	9.34	10.25
55.0				4.10	5.18	6.45	7.01	7.91	8.72	9.60
60.0					4.72	5.91	6.45	7.30	8.08	8.91
65.0					4.24	5.36	5.86	6.67	7.40	8.19
67.0						5.13	5.62	6.41	7.13	7.90

50 Hz

ZR34K3E-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	1.42	1.42	1.42	1.41	1.40	1.38	1.38	1.36	1.34	1.32
35.0	1.62	1.61	1.61	1.60	1.60	1.58	1.57	1.55	1.53	1.50
40.0	1.83	1.83	1.83	1.83	1.82	1.80	1.78	1.76	1.74	1.70
45.0		2.08	2.08	2.08	2.07	2.04	2.03	2.00	1.98	1.94
50.0			2.36	2.36	2.35	2.32	2.30	2.27	2.24	2.20
55.0				2.68	2.66	2.63	2.61	2.58	2.55	2.50
60.0					3.02	2.98	2.96	2.93	2.89	2.84
65.0					3.42	3.38	3.36	3.32	3.28	3.23
67.0						3.55	3.53	3.49	3.44	3.39

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	3.34	3.33	3.32	3.32	3.31	3.29	3.28	3.26	3.23	3.20
35.0	3.53	3.52	3.52	3.52	3.51	3.49	3.48	3.45	3.42	3.38
40.0	3.77	3.77	3.77	3.77	3.77	3.74	3.72	3.69	3.66	3.61
45.0		4.07	4.08	4.08	4.07	4.04	4.02	3.98	3.94	3.89
50.0			4.43	4.44	4.43	4.39	4.37	4.32	4.28	4.22
55.0				4.86	4.84	4.80	4.78	4.73	4.68	4.61
60.0					5.33	5.28	5.25	5.19	5.14	5.07
65.0					5.89	5.83	5.80	5.73	5.67	5.59
67.0						6.07	6.03	5.97	5.90	5.82

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	17.00	21.40	26.60	32.60	39.40	47.30	50.70	56.20	61.00	66.20
35.0	16.50	21.00	26.20	32.30	39.20	47.10	50.60	56.10	61.00	66.20
40.0	15.90	20.50	25.80	31.80	38.80	46.80	50.30	55.90	60.80	66.10
45.0		19.85	25.20	31.30	38.40	46.40	49.90	55.50	60.50	65.80
50.0			24.40	30.60	37.70	45.80	49.40	55.10	60.10	65.50
55.0				29.80	37.00	45.20	48.70	54.50	59.50	65.00
60.0					36.10	44.30	47.90	53.70	58.90	64.40
65.0					35.00	43.40	47.00	52.90	58.10	63.70
67.0						42.90	46.60	52.50	57.80	63.40

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	8.03
Length/Width, mm	246/246
Height, mm	400
Net Weight, kg	28.5
Gross Weight, kg	30
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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	61
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	2.60
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	6.3
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
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