



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
27.0	5.49	7.25	9.37	11.90	14.90	18.35	22.30	26.80	28.70	31.90	34.60		
30.0	5.18	6.91	9.01	11.55	14.50	17.90	21.80	26.30	28.30	31.40	34.10	37.10	
35.0		6.31	8.34	10.80	13.65	17.05	20.90	25.30	27.20	30.30	33.00	35.90	
40.0			7.63	9.96	12.75	16.00	19.75	24.00	25.90	28.90	31.60	34.40	40.60
45.0				9.11	11.70	14.80	18.45	22.60	24.40	27.30	29.90	32.70	38.70
50.0					10.70	13.60	17.00	21.00	22.70	25.50	28.00	30.70	36.50
55.0						12.40	15.60	19.30	21.00	23.60	26.00	28.50	34.10
60.0							14.15	17.60	19.15	21.60	23.90	26.20	31.50
65.0								15.95	17.35	19.60	21.70	23.90	28.90

50 Hz

ZRD94KQE-TFD

R407C Dew Point

Cond °C	Power, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
27.0	3.58	3.64	3.68	3.72	3.75	3.80	3.87	3.98	4.04	4.14	4.25		
30.0	3.85	3.92	3.97	3.99	4.02	4.05	4.10	4.19	4.23	4.32	4.41	4.51	
35.0		4.41	4.47	4.50	4.51	4.53	4.55	4.60	4.63	4.69	4.75	4.83	
40.0			5.00	5.04	5.06	5.07	5.08	5.11	5.13	5.16	5.21	5.26	5.41
45.0				5.63	5.66	5.68	5.68	5.70	5.71	5.73	5.76	5.80	5.90
50.0					6.32	6.35	6.36	6.37	6.38	6.40	6.41	6.44	6.52
55.0						7.08	7.11	7.13	7.14	7.15	7.17	7.19	7.25
60.0							7.94	7.98	7.99	8.01	8.02	8.04	8.09
65.0								8.90	8.92	8.95	8.97	9.00	9.05

Cond °C	Current at 400 V, A												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
27.0	8.24	8.31	8.36	8.41	8.47	8.54	8.65	8.80	8.87	9.01	9.13		
30.0	8.64	8.71	8.76	8.81	8.85	8.90	8.99	9.11	9.17	9.28	9.39	9.52	
35.0		9.41	9.47	9.50	9.53	9.57	9.62	9.70	9.75	9.83	9.91	10.01	
40.0			10.22	10.26	10.29	10.31	10.35	10.40	10.43	10.49	10.54	10.62	10.81
45.0				11.09	11.12	11.15	11.17	11.20	11.22	11.26	11.30	11.36	11.50
50.0					12.04	12.08	12.10	12.13	12.14	12.17	12.20	12.23	12.34
55.0						13.11	13.14	13.17	13.18	13.21	13.23	13.26	13.34
60.0							14.31	14.35	14.37	14.39	14.41	14.44	14.50
65.0								15.67	15.70	15.73	15.75	15.78	15.84

Cond °C	Suction Mass Flow, g/s												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
27.0	32.40	42.00	53.40	66.70	82.10	99.50	119.50	141.50	151.00	166.00	179.00		
30.0	31.40	41.10	52.70	66.30	81.90	99.80	120.00	142.50	152.00	167.50	181.00	195.50	
35.0		39.40	51.20	65.00	81.00	99.30	120.00	143.00	153.00	169.00	183.00	197.50	
40.0			49.30	63.10	79.30	97.80	119.00	142.50	153.00	169.00	183.50	198.50	231.00
45.0				61.00	77.00	95.60	117.00	141.00	151.50	168.00	182.50	197.50	231.00
50.0					74.60	93.00	114.00	138.50	149.00	165.50	180.50	196.00	229.00
55.0						90.30	111.00	135.00	145.50	162.50	177.50	193.00	227.00
60.0							108.50	132.00	142.50	159.00	174.00	189.50	224.00
65.0								129.00	139.00	155.50	170.00	186.00	220.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	22.1
Length/Width, mm	293/285
Height, mm	476
Net Weight, kg	58
Gross Weight, kg	63
Stub Suction, inch	1 1/8
Stub Discharge, inch	7/8
Oil Quantity, l	2.51
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	64
Sound Power (HT), dBA	75
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	10.5
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Low Side TS Min., °C	-35
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	15.9
Locked Rotor Current, A	95
Winding Resistance, ohm	1.79
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Enclosure Class	IP21
Mounting Grommets	Rubber Grommet For Single
Oil Charge	
Digital Control	Integrated Solenoid Valve
Check Valve	Discharge Low Leak Check Valve

**ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Mounting Grommets	Hard Mounts for Paralleling
Digital Control	Digital Valve Coil 24V
Digital Control	Digital Valve Coil 230V
Sound Attenuation	Sound Shell (12dBA)

**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