



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	15.0
27.0	5.20	6.63	8.38	10.55	13.20	16.40	17.90	20.30	22.60	25.00
30.0	5.23	6.63	8.31	10.35	12.85	15.95	17.35	19.60	21.70	24.00
35.0	5.08	6.46	8.06	9.98	12.30	15.10	16.35	18.45	20.40	22.50
40.0	4.71	6.11	7.67	9.49	11.65	14.25	15.40	17.35	19.10	21.00
45.0		5.60	7.16	8.92	10.95	13.40	14.45	16.25	17.85	19.65
50.0			6.56	8.30	10.25	12.55	13.55	15.20	16.70	18.35
55.0				7.65	9.57	11.75	12.70	14.25	15.65	17.20
60.0					8.89	11.00	11.90	13.40	14.70	16.15
65.0					8.27	10.35	11.25	12.65	13.90	15.25

50 Hz

ZRD61KCE-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
27.0	2.21	2.31	2.40	2.45	2.44	2.34	2.27	2.13	1.98	1.78
30.0	2.35	2.46	2.57	2.65	2.67	2.61	2.56	2.46	2.34	2.18
35.0	2.58	2.70	2.83	2.94	3.01	3.03	3.01	2.95	2.88	2.77
40.0	2.84	2.96	3.10	3.23	3.35	3.41	3.42	3.41	3.38	3.32
45.0		3.25	3.39	3.54	3.68	3.80	3.83	3.86	3.86	3.84
50.0			3.72	3.88	4.04	4.19	4.24	4.31	4.34	4.36
55.0				4.27	4.44	4.62	4.69	4.77	4.84	4.88
60.0					4.91	5.10	5.17	5.28	5.36	5.44
65.0					5.44	5.64	5.72	5.85	5.95	6.04

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
27.0	4.63	4.72	4.79	4.84	4.83	4.73	4.67	4.53	4.39	4.20
30.0	4.81	4.91	5.01	5.09	5.11	5.07	5.02	4.93	4.81	4.66
35.0	5.10	5.21	5.34	5.46	5.55	5.57	5.56	5.51	5.45	5.35
40.0	5.40	5.53	5.68	5.83	5.97	6.06	6.08	6.08	6.05	6.00
45.0		5.88	6.04	6.23	6.41	6.55	6.59	6.64	6.65	6.64
50.0			6.46	6.67	6.88	7.07	7.14	7.22	7.27	7.30
55.0				7.19	7.42	7.65	7.74	7.85	7.93	8.00
60.0					8.06	8.32	8.42	8.56	8.67	8.77
65.0					8.81	9.10	9.21	9.38	9.51	9.63

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
27.0	29.60	37.10	46.20	57.20	70.50	86.60	93.90	106.00	116.50	128.50
30.0	30.60	38.10	47.00	57.70	70.70	86.20	93.30	105.00	115.50	126.50
35.0	31.20	38.90	47.80	58.20	70.60	85.40	92.10	103.00	113.00	124.00
40.0	30.40	38.70	47.80	58.10	70.20	84.40	90.80	101.50	111.00	121.00
45.0		37.50	47.10	57.60	69.50	83.40	89.60	99.70	109.00	119.00
50.0			45.70	56.70	68.80	82.60	88.70	98.60	107.50	117.00
55.0				55.60	68.30	82.20	88.30	98.10	107.00	116.50
60.0					68.00	82.40	88.60	98.50	107.00	116.50
65.0					68.30	83.60	90.10	100.00	109.00	118.50

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	14.4
Length/Width, mm	246/246
Height, mm	494
Net Weight, kg	38.1
Gross Weight, kg	41
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.89
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	65
Sound Power (HT), dBA	76
Sound Power with Sound Shell (HT), dBA	70
Sound Conditions (HT, Temperatures:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
High Side PS gauge, bar	29.5
Low Side PS gauge, bar	20
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	11
Locked Rotor Current, A	64
Winding Resistance, ohm	2.75
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	External thermistor
Mounting Grommets	Standard

**ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Mounting Grommets	Hard Mounts for Paralleling
Mounting Grommets	Rubber Grommet For Single
Digital Control	24V AC
Valve Coil	220V
Valve Coil	24V AC

50 Hz

ZRD61KCE-TFD

R407C Dew Point

**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