



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	93.20	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, m³/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

Mounting Grommets	Standard
Discharge Temperature Protection	External thermistor

ACCESSORIES OPTIONAL

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

50 Hz

ZRD61KCE-TFD

R407C Dew Point

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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04