



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	5.19	6.68	8.43	10.45	12.80	15.45	16.65	18.45	20.10	21.80
30.0	4.99	6.44	8.17	10.20	12.50	15.15	16.30	18.10	19.75	21.40
35.0	4.65	6.05	7.72	9.68	11.95	14.55	15.70	17.50	19.10	20.80
40.0	4.34	5.65	7.24	9.13	11.35	13.85	15.00	16.75	18.30	20.00
45.0		5.27	6.77	8.56	10.70	13.15	14.20	15.95	17.50	19.10
50.0			6.31	7.99	10.00	12.35	13.40	15.05	16.55	18.15
55.0				7.43	9.31	11.55	12.55	14.15	15.60	17.15
60.0					8.64	10.75	11.70	13.20	14.60	16.10
65.0					8.00	9.94	10.85	12.25	13.60	15.05

50 Hz

ZRD61KRE-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	2.25	2.27	2.30	2.34	2.39	2.46	2.50	2.57	2.63	2.71
30.0	2.43	2.46	2.48	2.51	2.55	2.61	2.64	2.69	2.74	2.80
35.0	2.72	2.77	2.80	2.82	2.85	2.89	2.90	2.93	2.97	3.00
40.0	3.02	3.09	3.14	3.17	3.19	3.22	3.23	3.24	3.26	3.28
45.0		3.43	3.50	3.55	3.58	3.60	3.60	3.61	3.62	3.63
50.0			3.89	3.96	4.00	4.03	4.03	4.04	4.04	4.04
55.0				4.40	4.46	4.50	4.51	4.52	4.52	4.52
60.0					4.96	5.03	5.04	5.06	5.06	5.06
65.0					5.50	5.59	5.62	5.65	5.66	5.67

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	5.60	5.65	5.71	5.78	5.86	5.95	5.99	6.04	6.10	6.15
30.0	5.70	5.76	5.82	5.89	5.96	6.03	6.06	6.11	6.15	6.19
35.0	5.93	6.00	6.07	6.14	6.20	6.26	6.28	6.31	6.34	6.36
40.0	6.25	6.35	6.43	6.50	6.56	6.61	6.63	6.65	6.66	6.67
45.0		6.79	6.90	6.98	7.05	7.09	7.10	7.12	7.12	7.12
50.0			7.48	7.58	7.66	7.71	7.72	7.73	7.73	7.72
55.0				8.32	8.41	8.47	8.48	8.49	8.49	8.47
60.0					9.31	9.39	9.40	9.42	9.41	9.40
65.0					10.37	10.46	10.49	10.51	10.51	10.50

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	29.50	37.40	46.40	56.80	68.50	81.60	87.20	96.10	104.00	112.00
30.0	29.20	37.10	46.20	56.70	68.60	82.00	87.70	96.70	104.50	113.00
35.0	28.50	36.50	45.70	56.40	68.60	82.30	88.20	97.50	105.50	114.00
40.0	28.00	35.80	45.10	55.90	68.20	82.20	88.30	97.80	106.50	115.00
45.0		35.30	44.50	55.20	67.70	81.90	88.10	97.90	106.50	115.50
50.0			43.90	54.60	67.10	81.40	87.70	97.70	106.50	116.00
55.0				54.10	66.50	80.90	87.20	97.40	106.50	116.00
60.0					66.10	80.50	86.90	97.20	106.50	116.50
65.0					66.10	80.40	86.80	97.30	106.50	117.00

**COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m <sup>3</sup> /h	14.4
Length/Width, mm	246/257
Height, mm	481
Net Weight, kg	38.1
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 (19)
Sound Pressure @ 1m (MT), dBA	67
Sound Power (MT), dBA	78
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Max. Internal Free Volume, l	4.20
High Side PS gauge, bar	29
Low Side PS gauge, bar	21
Low Side TS Max., °C	50
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	11.3
Locked Rotor Current, A	64
Winding Resistance, ohm	2.8
Default Enclosure Class	IP 21 (IEC 34)

**ACCESSORIES INCLUDED**

Discharge Temperature Protection	External thermistor
Discharge Temperature Protection	NTC sensor

### **ACCESSORIES OPTIONAL**

Crankcase Heater	70 W External
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Mounting Grommets	Rubber Grommet For Single
Solenoid valve	Standard
Digital Control	24V AC
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
Solenoid Valve Kit	220 V Ac 12" lead Length
Solenoid Valve Kit	24 V Ac 12" lead Length
Digital Tubing Kit	220 V 0.3m Rotalock
Digital Tubing Kit	24 V 0.3m Rotalock
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

### **MOTOR OPTIONS**

<i>Motor Code</i>	<i>Power Supply</i>	<i>Nominal Voltage, V</i>	<i>Start Connection</i>	<i>DOL Connection</i>	<i>Amps Factor</i>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04