



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	4.68	5.93	7.39	9.05	10.95	13.10	14.00	15.45	16.75	18.10
30.0	4.49	5.72	7.15	8.79	10.65	12.75	13.70	15.10	16.40	17.75
35.0	4.18	5.36	6.74	8.33	10.15	12.20	13.10	14.55	15.80	17.10
40.0	3.87	4.99	6.31	7.85	9.61	11.60	12.50	13.90	15.10	16.40
45.0		4.61	5.86	7.33	9.03	11.00	11.85	13.20	14.40	15.65
50.0			5.39	6.78	8.41	10.30	11.10	12.45	13.60	14.85
55.0				6.21	7.76	9.56	10.35	11.65	12.80	14.00
60.0					7.07	8.79	9.55	10.80	11.90	13.05
65.0					6.34	7.97	8.69	9.87	10.95	12.10

50 Hz

ZRD48KRE-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	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.83	1.84
30.0	1.96	1.96	1.96	1.96	1.96	1.95	1.95	1.96	1.96	1.96
35.0	2.21	2.22	2.22	2.21	2.20	2.20	2.20	2.20	2.20	2.20
40.0	2.49	2.50	2.50	2.50	2.49	2.48	2.48	2.47	2.47	2.47
45.0		2.83	2.83	2.82	2.81	2.80	2.79	2.79	2.78	2.78
50.0			3.20	3.19	3.18	3.16	3.15	3.14	3.13	3.13
55.0				3.60	3.59	3.57	3.56	3.55	3.54	3.53
60.0					4.05	4.02	4.01	4.00	3.99	3.97
65.0					4.56	4.54	4.53	4.51	4.49	4.48

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	4.27	4.30	4.31	4.32	4.33	4.35	4.36	4.38	4.40	4.43
30.0	4.39	4.42	4.44	4.45	4.46	4.48	4.49	4.50	4.52	4.55
35.0	4.61	4.66	4.68	4.70	4.71	4.72	4.72	4.73	4.75	4.77
40.0	4.89	4.94	4.97	4.99	4.99	5.00	5.00	5.00	5.01	5.02
45.0		5.29	5.32	5.34	5.34	5.33	5.33	5.33	5.33	5.33
50.0			5.74	5.75	5.75	5.73	5.72	5.71	5.71	5.70
55.0				6.25	6.23	6.21	6.19	6.17	6.16	6.14
60.0					6.81	6.77	6.75	6.72	6.69	6.67
65.0					7.49	7.44	7.41	7.37	7.33	7.29

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	26.60	33.20	40.70	49.10	58.50	69.00	73.50	80.50	86.60	92.90
30.0	26.30	32.90	40.50	49.00	58.50	69.10	73.60	80.70	87.00	93.40
35.0	25.60	32.30	40.00	48.60	58.30	69.10	73.70	81.00	87.40	94.10
40.0	25.00	31.60	39.30	48.00	57.90	68.90	73.70	81.10	87.70	94.60
45.0		30.80	38.50	47.30	57.30	68.50	73.40	81.00	87.80	94.80
50.0			37.50	46.40	56.40	67.90	72.80	80.70	87.60	94.90
55.0				45.20	55.40	67.00	72.00	80.10	87.20	94.80
60.0					54.00	65.80	71.00	79.30	86.70	94.50
65.0					52.40	64.40	69.70	78.30	85.90	94.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	11.4
Length/Width, mm	239/244
Height, mm	466
Net Weight, kg	29.9
Stub Suction, inch	7/8
Stub Discharge, inch	1/2
Oil Quantity, l	1.36
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	58
Sound Power (MT), dBA	69
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Max. Internal Free Volume, l	2.90
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	10
Locked Rotor Current, A	48
Winding Resistance, ohm	3.88
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Mounting Grommets	Rubber Grommet For Single
Solenoid valve	Standard
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