



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	7.07	8.91	11.05	13.50	16.35	19.50	20.90	23.10	25.00	27.00
30.0	6.78	8.58	10.70	13.10	15.90	19.05	20.40	22.60	24.50	26.40
35.0	6.31	8.04	10.05	12.45	15.15	18.20	19.55	21.70	23.50	25.50
40.0	5.83	7.47	9.41	11.70	14.30	17.30	18.65	20.70	22.60	24.50
45.0		6.87	8.73	10.90	13.45	16.35	17.65	19.65	21.50	23.40
50.0			8.01	10.10	12.50	15.35	16.60	18.55	20.30	22.20
55.0				9.24	11.55	14.25	15.45	17.40	19.10	20.90
60.0					10.55	13.15	14.30	16.15	17.80	19.60
65.0					9.52	11.95	13.05	14.85	16.45	18.20

50 Hz

ZRD72KRE-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	2.61	2.64	2.68	2.71	2.73	2.75	2.75	2.74	2.73	2.72
30.0	2.82	2.84	2.88	2.91	2.94	2.95	2.96	2.96	2.95	2.94
35.0	3.19	3.21	3.24	3.27	3.30	3.32	3.32	3.33	3.33	3.32
40.0	3.63	3.63	3.65	3.67	3.70	3.72	3.73	3.74	3.74	3.74
45.0		4.12	4.13	4.14	4.16	4.18	4.19	4.20	4.20	4.20
50.0			4.67	4.68	4.69	4.70	4.70	4.71	4.71	4.72
55.0				5.29	5.28	5.29	5.29	5.29	5.29	5.29
60.0					5.96	5.95	5.95	5.95	5.95	5.94
65.0					6.74	6.71	6.70	6.69	6.68	6.67

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	5.73	5.78	5.84	5.88	5.88	5.80	5.75	5.63	5.49	5.32
30.0	5.94	5.99	6.05	6.10	6.12	6.07	6.03	5.94	5.82	5.68
35.0	6.36	6.38	6.44	6.50	6.55	6.53	6.51	6.45	6.36	6.25
40.0	6.88	6.87	6.92	6.98	7.03	7.04	7.03	6.99	6.93	6.85
45.0		7.48	7.50	7.54	7.59	7.62	7.62	7.59	7.55	7.49
50.0			8.20	8.22	8.26	8.29	8.29	8.28	8.25	8.20
55.0				9.04	9.06	9.07	9.07	9.06	9.04	9.00
60.0					10.00	9.99	9.99	9.97	9.95	9.92
65.0					11.11	11.07	11.06	11.03	11.00	10.97

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	40.20	49.80	60.90	73.40	87.40	103.00	109.50	120.00	129.00	138.50
30.0	39.70	49.40	60.50	73.10	87.30	103.00	110.00	120.50	129.50	139.50
35.0	38.70	48.40	59.70	72.50	86.90	103.00	110.00	121.00	130.50	140.50
40.0	37.60	47.30	58.60	71.60	86.20	102.50	110.00	121.00	131.00	141.00
45.0		46.00	57.30	70.40	85.30	102.00	109.50	121.00	131.00	141.50
50.0			55.80	68.90	84.00	101.00	108.50	120.50	131.00	141.50
55.0				67.20	82.50	99.90	107.50	119.50	130.50	141.50
60.0					80.70	98.50	106.50	118.50	130.00	141.50
65.0					78.70	96.80	105.00	117.50	129.00	141.50

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	17.1
Length/Width, mm	246/257
Height, mm	481
Net Weight, kg	39.9
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	61
Sound Power (MT), dBA	72
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 20 °C at 50 Hz
Max. Internal Free Volume, l	5.90
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	12.1
Locked Rotor Current, A	74
Winding Resistance, ohm	2.27
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	External thermistor
Discharge Temperature Protection	NTC sensor

### ACCESSORIES OPTIONAL

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

### 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