



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	3.55	4.40	5.40	6.58	7.99	9.66	10.40	11.60	12.70	13.90
30.0	3.41	4.27	5.26	6.42	7.79	9.40	10.15	11.30	12.35	13.50
35.0	3.18	4.04	5.01	6.14	7.46	8.99	9.68	10.80	11.80	12.90
40.0	2.91	3.78	4.75	5.84	7.11	8.57	9.22	10.25	11.20	12.25
45.0		3.49	4.45	5.52	6.74	8.13	8.75	9.74	10.65	11.60
50.0			4.12	5.17	6.34	7.67	8.25	9.19	10.05	10.95
55.0				4.78	5.91	7.17	7.73	8.62	9.41	10.25
60.0					5.43	6.64	7.17	8.00	8.75	9.56
65.0					4.90	6.06	6.56	7.35	8.05	8.81

50 Hz

ZRD36KRE-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	1.42	1.44	1.45	1.45	1.46	1.48	1.48	1.50	1.52	1.55
30.0	1.50	1.52	1.54	1.54	1.55	1.56	1.57	1.59	1.60	1.62
35.0	1.64	1.67	1.70	1.70	1.72	1.73	1.74	1.74	1.76	1.78
40.0	1.80	1.84	1.88	1.90	1.91	1.92	1.92	1.93	1.94	1.95
45.0		2.04	2.08	2.11	2.13	2.14	2.14	2.14	2.15	2.16
50.0			2.31	2.35	2.37	2.38	2.38	2.39	2.39	2.39
55.0				2.62	2.64	2.66	2.66	2.66	2.66	2.66
60.0					2.94	2.96	2.96	2.97	2.96	2.96
65.0					3.28	3.30	3.30	3.30	3.30	3.29

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	3.24	3.26	3.27	3.27	3.28	3.30	3.31	3.34	3.36	3.39
30.0	3.35	3.37	3.39	3.40	3.41	3.42	3.43	3.45	3.47	3.50
35.0	3.51	3.56	3.58	3.60	3.61	3.62	3.63	3.64	3.66	3.68
40.0	3.69	3.75	3.79	3.82	3.83	3.85	3.85	3.86	3.87	3.88
45.0		3.98	4.04	4.08	4.10	4.11	4.12	4.12	4.13	4.14
50.0			4.35	4.40	4.43	4.45	4.45	4.46	4.46	4.46
55.0				4.82	4.86	4.88	4.89	4.89	4.89	4.89
60.0					5.40	5.43	5.43	5.44	5.44	5.43
65.0					6.07	6.11	6.12	6.12	6.12	6.12

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	20.20	24.60	29.70	35.70	42.70	50.90	54.60	60.40	65.70	71.40
30.0	19.95	24.50	29.70	35.80	42.80	50.90	54.50	60.30	65.60	71.20
35.0	19.50	24.30	29.70	35.80	42.80	50.90	54.40	60.10	65.30	70.80
40.0	18.80	24.00	29.60	35.80	42.80	50.80	54.30	60.00	65.10	70.50
45.0		23.40	29.30	35.60	42.70	50.70	54.20	59.80	64.90	70.20
50.0			28.70	35.30	42.50	50.60	54.00	59.60	64.60	69.90
55.0				34.70	42.10	50.30	53.80	59.30	64.30	69.50
60.0					41.50	49.80	53.30	58.90	63.80	69.00
65.0					40.50	49.00	52.60	58.20	63.20	68.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	8.34
Length/Width, mm	239/244
Height, mm	435
Net Weight, kg	30.2
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	1.24
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
PED Category	1
Max. Internal Free Volume, l	2.50
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	7
Locked Rotor Current, A	40
Winding Resistance, ohm	4.83
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
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