



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
27.0	6.83	9.13	12.25	16.00	20.40	25.30	30.60	36.10	38.40	41.90	44.80		
30.0	6.82	8.87	11.75	15.35	19.65	24.40	29.70	35.20	37.50	41.00	44.00	47.00	
35.0		8.50	11.00	14.30	18.30	22.90	28.00	33.60	35.90	39.40	42.40	45.50	
40.0			10.30	13.20	16.90	21.30	26.30	31.70	34.00	37.60	40.60	43.70	50.00
45.0				12.20	15.55	19.65	24.40	29.70	32.00	35.50	38.50	41.60	48.00
50.0					14.30	18.05	22.50	27.60	29.80	33.30	36.30	39.40	45.80
55.0						16.50	20.70	25.50	27.60	31.00	33.90	37.00	43.30
60.0							18.90	23.40	25.40	28.60	31.50	34.40	40.70
65.0								21.40	23.30	26.30	29.00	31.80	38.00

50 Hz

ZRD125KCE-TFD

R407C Dew Point

Cond °C	Power, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
27.0	4.06	4.20	4.29	4.35	4.41	4.47	4.56	4.69	4.76	4.89	5.02		
30.0	4.55	4.70	4.80	4.87	4.92	4.98	5.05	5.17	5.24	5.35	5.47	5.61	
35.0		5.50	5.62	5.70	5.76	5.81	5.88	5.97	6.02	6.12	6.22	6.34	
40.0			6.41	6.51	6.58	6.63	6.69	6.78	6.82	6.90	6.99	7.09	7.35
45.0				7.30	7.39	7.46	7.52	7.60	7.64	7.71	7.78	7.87	8.10
50.0					8.20	8.29	8.36	8.44	8.48	8.55	8.61	8.69	8.90
55.0						9.14	9.23	9.32	9.36	9.43	9.49	9.57	9.76
60.0							10.15	10.25	10.30	10.35	10.45	10.50	10.70
65.0								11.20	11.30	11.35	11.45	11.50	11.70

Cond °C	Current at 400 V, A												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
27.0	10.29	10.42	10.55	10.66	10.79	10.93	11.09	11.29	11.39	11.54	11.69		
30.0	10.63	10.77	10.90	11.01	11.12	11.24	11.38	11.55	11.63	11.77	11.89	12.03	
35.0		11.51	11.64	11.75	11.85	11.95	12.07	12.20	12.26	12.36	12.46	12.57	
40.0			12.55	12.67	12.78	12.87	12.97	13.08	13.12	13.20	13.28	13.36	13.56
45.0				13.72	13.84	13.95	14.04	14.14	14.18	14.24	14.30	14.37	14.53
50.0					15.00	15.13	15.23	15.33	15.37	15.43	15.49	15.54	15.68
55.0						16.37	16.50	16.62	16.66	16.72	16.78	16.83	16.95
60.0							17.79	17.94	17.99	18.07	18.13	18.19	18.31
65.0								19.26	19.33	19.42	19.50	19.57	19.70

Cond °C	Suction Mass Flow, g/s												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
27.0	40.20	52.90	69.60	89.70	112.50	137.50	163.50	190.50	202.00	218.00	232.00		
30.0	41.30	52.80	68.70	88.40	111.00	136.00	163.00	190.50	202.00	219.00	233.00	248.00	
35.0		53.10	67.40	86.00	108.50	133.50	161.00	190.00	202.00	220.00	235.00	250.00	
40.0			66.50	83.70	105.50	130.50	158.00	188.00	200.00	219.00	235.00	252.00	284.00
45.0				81.80	102.00	127.00	155.00	185.50	198.50	218.00	235.00	252.00	287.00
50.0					99.50	123.50	151.00	182.00	195.50	216.00	233.00	251.00	288.00
55.0						120.00	147.50	179.00	192.50	213.00	231.00	250.00	289.00
60.0							144.50	175.50	189.00	211.00	229.00	249.00	289.00
65.0								173.00	186.50	208.00	228.00	248.00	290.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	28.8
Length/Width, mm	293/285
Height, mm	533
Net Weight, kg	61.7
Gross Weight, kg	68
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.25
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	64
Sound Power (HT), dBA	75
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
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	19.6
Locked Rotor Current, A	118
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Enclosure Class	IP21
Mounting Grommets	Rubber Grommet For Single
Oil Charge	
Digital Control	Integrated Solenoid Valve
Check Valve	Discharge Low Leak Check Valve

ACCESSORIES OPTIONAL

Crankcase Heater	66 W External
Discharge Temp Protection	
Mounting Grommets	Hard Mounts for Paralleling
Digital Control	Digital Valve Coil 24V
Digital Control	Digital Valve Coil 230V
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (12dBA)

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