



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- 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	20.0	25.0
10.0	5.86	7.38	9.22	11.40								
15.0	5.56	7.04	8.82	10.95	13.45							
20.0	5.26	6.69	8.41	10.45	12.90	15.70						
25.0	4.95	6.33	7.99	9.95	12.30	15.00	16.25	18.20				
30.0	4.64	5.97	7.56	9.44	11.70	14.30	15.45	17.35	19.05	20.90		
35.0	4.32	5.60	7.12	8.92	11.05	13.55	14.70	16.50	18.15	19.90		
40.0	4.00	5.22	6.67	8.39	10.45	12.80	13.90	15.60	17.20	18.85	22.60	
45.0	3.68	4.84	6.21	7.85	9.78	12.05	13.10	14.75	16.25	17.85	21.40	25.50
50.0		4.45	5.76	7.30	9.13	11.30	12.25	13.85	15.25	16.80	20.20	24.10
55.0			5.29	6.75	8.48	10.50	11.45	12.95	14.30	15.75	19.00	22.70
60.0			4.83	6.19	7.81	9.74	10.60	12.00	13.30	14.65	17.75	21.30
65.0				5.63	7.14	8.94	9.75	11.05	12.30	13.60	16.50	19.90
70.0					6.47	8.14	8.90	10.15	11.25	12.50	15.25	
75.0					5.79	7.34	8.04	9.19	10.25	11.40		

50 Hz

ZR92KRE-TFD

R450A 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	20.0	25.0
10.0	1.70	1.76	1.82	1.88								
15.0	1.80	1.87	1.94	2.00	2.07							
20.0	1.92	1.99	2.06	2.13	2.20	2.28						
25.0	2.05	2.13	2.21	2.28	2.36	2.44	2.47	2.53				
30.0	2.20	2.29	2.38	2.46	2.54	2.62	2.65	2.71	2.76	2.81		
35.0	2.38	2.48	2.57	2.65	2.73	2.82	2.85	2.91	2.96	3.01		
40.0	2.58	2.69	2.78	2.87	2.96	3.04	3.08	3.14	3.19	3.24	3.35	
45.0	2.81	2.92	3.02	3.12	3.21	3.30	3.33	3.39	3.44	3.50	3.61	3.74
50.0		3.19	3.29	3.39	3.49	3.58	3.62	3.68	3.73	3.78	3.89	4.02
55.0			3.59	3.70	3.80	3.89	3.93	3.99	4.04	4.10	4.21	4.34
60.0			3.93	4.04	4.14	4.24	4.28	4.34	4.40	4.45	4.56	4.69
65.0				4.42	4.53	4.63	4.67	4.73	4.78	4.84	4.95	5.07
70.0					4.95	5.05	5.10	5.16	5.21	5.27	5.38	
75.0					5.41	5.52	5.56	5.63	5.68	5.74		

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	20.0	25.0
10.0	5.00	5.13	5.26	5.39								
15.0	5.26	5.39	5.51	5.63	5.75							
20.0	5.51	5.63	5.75	5.86	5.98	6.10						
25.0	5.75	5.86	5.98	6.09	6.20	6.31	6.36	6.44				
30.0	5.98	6.10	6.21	6.31	6.42	6.53	6.58	6.65	6.71	6.78		
35.0	6.22	6.34	6.44	6.55	6.65	6.76	6.80	6.87	6.93	6.99		
40.0	6.47	6.59	6.70	6.80	6.91	7.01	7.05	7.12	7.18	7.24	7.37	
45.0	6.74	6.86	6.97	7.08	7.18	7.28	7.33	7.39	7.45	7.51	7.63	7.77
50.0		7.16	7.28	7.38	7.49	7.59	7.64	7.70	7.76	7.81	7.94	8.07
55.0			7.61	7.73	7.84	7.94	7.98	8.05	8.11	8.16	8.29	8.42
60.0			8.00	8.11	8.23	8.34	8.38	8.45	8.51	8.57	8.69	8.82
65.0				8.55	8.67	8.79	8.83	8.90	8.96	9.02	9.15	9.29
70.0					9.18	9.30	9.35	9.42	9.48	9.55	9.68	
75.0					9.75	9.88	9.93	10.01	10.07	10.14		

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	20.0	25.0
10.0	34.20	42.20	51.70	62.90								
15.0	33.80	41.90	51.50	62.60	75.50							
20.0	33.40	41.50	51.10	62.30	75.20	90.00						
25.0	32.90	41.10	50.70	61.90	74.80	89.60	96.10	106.50				
30.0	32.30	40.60	50.20	61.40	74.30	89.10	95.60	106.00	115.00	125.00		
35.0	31.70	40.00	49.70	60.80	73.70	88.50	95.00	105.50	114.50	124.50		
40.0	31.00	39.40	49.00	60.20	73.10	87.80	94.30	104.50	114.00	123.50	145.00	
45.0	30.20	38.70	48.30	59.50	72.30	87.00	93.50	104.00	113.00	123.00	144.50	168.50
50.0		37.90	47.60	58.70	71.50	86.20	92.60	103.00	112.00	122.00	143.50	167.50
55.0			46.70	57.80	70.50	85.20	91.60	102.00	111.00	121.00	142.50	167.00
60.0			45.70	56.80	69.50	84.10	90.60	101.00	110.00	120.00	141.50	166.00
65.0				55.70	68.40	83.00	89.40	99.70	109.00	119.00	140.50	165.00
70.0					67.20	81.80	88.20	98.50	107.50	117.50	139.50	
75.0					65.90	80.50	86.90	97.20	106.50	116.50		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	21.4
Length/Width, mm	246/257
Height, mm	443
Net Weight, kg	43.5
Stub Suction, inch	7/8
Stub Discharge, inch	3/4
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	68
Sound Power (MT), dBA	79
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	5.70
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	605
Refrigerant's classification	A1

COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)

Maximum Operating Current, A	15.9
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	External thermistor
----------------------------------	---------------------

ACCESSORIES OPTIONAL

Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Crankcase Heater	70 W External
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge
Oil Control System	ALCO Trax-Oil OM3

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