



Minimum Evaporating Temp. With:

- █ 10 K Suction Superheat
- █ Maximum Evaporating Temperature

Suction Superheat 11.1K

Liquid Subcooling 8.3K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW													
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	
17.0	9.64	11.75	14.15											
20.0	9.54	11.65	14.00	16.70										
25.0	9.37	11.45	13.80	16.45	19.45	22.80								
30.0	9.18	11.20	13.55	16.20	19.20	22.50	26.20	27.80	30.40					
35.0	8.98	11.00	13.30	15.90	18.85	22.20	25.90	27.40	30.00	32.20	34.50			
40.0	8.76	10.75	13.00	15.55	18.50	21.80	25.40	27.00	29.50	31.70	34.00	38.90	44.30	
45.0	8.53	10.45	12.65	15.20	18.10	21.30	25.00	26.50	29.00	31.20	33.40	38.30	43.70	
50.0	8.28	10.15	12.35	14.80	17.65	20.90	24.40	26.00	28.40	30.60	32.80	37.70	43.00	
55.0	8.02	9.84	11.95	14.40	17.20	20.30	23.90	25.40	27.80	29.90	32.20	37.00	42.30	
60.0		9.50	11.55	13.95	16.70	19.80	23.30	24.80	27.10	29.20	31.50	36.20		
65.0			11.15	13.45	16.15	19.20	22.60	24.10	26.40	28.50	30.70			
67.0			10.95	13.25	15.90	18.95	22.30	23.80	26.10	28.20	30.40			

Cond °C	Power, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	2.87	2.97	3.12										
20.0	3.03	3.14	3.29	3.47									
25.0	3.31	3.44	3.60	3.78	3.99	4.22							
30.0	3.62	3.77	3.95	4.14	4.35	4.57	4.81	4.90	5.05				
35.0	3.97	4.15	4.34	4.55	4.76	4.99	5.21	5.30	5.44	5.55	5.66		
40.0	4.37	4.58	4.79	5.01	5.24	5.47	5.69	5.78	5.90	6.01	6.11	6.29	6.46
45.0	4.82	5.06	5.31	5.55	5.79	6.02	6.24	6.33	6.45	6.55	6.64	6.81	6.95
50.0	5.34	5.62	5.89	6.16	6.42	6.66	6.89	6.97	7.09	7.19	7.27	7.43	7.55
55.0	5.94	6.25	6.56	6.86	7.14	7.39	7.63	7.72	7.84	7.93	8.01	8.15	8.25
60.0		6.97	7.32	7.65	7.95	8.23	8.48	8.57	8.69	8.78	8.86	8.99	
65.0			8.18	8.54	8.88	9.18	9.44	9.53	9.66	9.75	9.84		
67.0			8.55	8.93	9.28	9.59	9.86	9.95	10.10	10.20	10.25		

Cond °C	Current at 400 V, A												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	6.21	6.31	6.47										
20.0	6.39	6.51	6.68	6.90									
25.0	6.72	6.86	7.05	7.28	7.54	7.84							
30.0	7.09	7.27	7.48	7.73	8.00	8.29	8.59	8.72	8.91				
35.0	7.51	7.73	7.98	8.25	8.53	8.82	9.12	9.24	9.42	9.57	9.72		
40.0	8.01	8.28	8.56	8.86	9.16	9.46	9.76	9.88	10.05	10.20	10.33	10.59	10.83
45.0	8.59	8.92	9.24	9.57	9.90	10.22	10.53	10.64	10.82	10.95	11.08	11.32	11.53
50.0	9.28	9.67	10.04	10.41	10.77	11.11	11.43	11.55	11.72	11.86	11.98	12.20	12.38
55.0	10.09	10.54	10.97	11.39	11.78	12.15	12.49	12.61	12.79	12.92	13.05	13.26	13.42
60.0		11.55	12.05	12.52	12.95	13.36	13.72	13.85	14.03	14.17	14.29	14.50	
65.0			13.29	13.81	14.30	14.74	15.13	15.27	15.46	15.61	15.74		
67.0			13.83	14.38	14.89	15.34	15.75	15.89	16.09	16.24	16.37		

Cond °C	Suction Mass Flow, g/s												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	36.60	46.00	57.30										
20.0	36.50	45.80	57.10	70.60									
25.0	36.30	45.60	56.80	70.20	86.00	104.50							
30.0	36.20	45.40	56.50	69.80	85.50	104.00	125.00	134.50	150.00				
35.0	36.00	45.20	56.30	69.50	85.10	103.50	124.50	134.00	149.00	162.50	177.00		
40.0	35.90	45.10	56.10	69.20	84.70	103.00	124.00	133.50	148.50	161.50	176.00	208.00	243.00
45.0	35.80	44.90	55.90	68.90	84.30	102.50	123.50	132.50	147.50	161.00	175.50	207.00	242.00
50.0	35.70	44.80	55.70	68.70	84.00	102.00	123.00	132.00	147.00	160.00	174.50	206.00	241.00
55.0	35.60	44.70	55.50	68.40	83.70	101.50	122.50	131.50	146.50	159.50	173.50	205.00	240.00
60.0		44.50	55.40	68.20	83.40	101.00	122.00	131.00	145.50	159.00	173.00	204.00	
65.0			55.20	68.00	83.10	101.00	121.50	130.50	145.00	158.50	172.50		
67.0			55.10	67.90	83.00	100.50	121.00	130.50	145.00	158.00	172.00		

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	21.4
Length/Width, mm	246/257
Height, mm	452
Net Weight, kg	39.5
Rotalock Suction, inch	1 1/4
Rotalock Discharge, inch	1 1/4
Rotalock Injection, inch	1
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 (LT), dBA	70
Sound Power (LT), dBA	81
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	5.70
High Side PS gauge, bar	28.8
Low Side PS gauge, bar	21
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	16
Locked Rotor Current, A	102
Winding Resistance, ohm	1.72
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	70 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Rotalock valves	suction and discharge

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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09