



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	11.90	14.80	18.30										
20.0	11.75	14.65	18.10	22.20									
25.0	11.55	14.40	17.80	21.70	26.20	31.30							
30.0	11.35	14.15	17.45	21.20	25.60	30.50	35.90	38.30	42.00				
35.0	11.10	13.90	17.10	20.80	25.00	29.70	34.90	37.20	40.70	43.80	47.10		
40.0	10.90	13.65	16.75	20.30	24.40	28.90	33.90	36.00	39.40	42.40	45.50	52.30	59.60
45.0	10.65	13.35	16.40	19.85	23.70	28.10	32.90	34.90	38.10	41.00	44.00	50.30	57.30
50.0	10.45	13.10	16.05	19.40	23.10	27.30	31.80	33.80	36.90	39.60	42.40	48.40	55.00
55.0	10.20	12.80	15.70	18.95	22.50	26.50	30.80	32.70	35.60	38.10	40.80	46.50	52.70
60.0		12.50	15.35	18.45	21.90	25.60	29.80	31.50	34.30	36.70	39.20		
65.0			14.95	17.95	21.20	24.80	28.70	30.40	33.00				
67.0			14.80	17.75	21.00	24.50	28.30	29.90					

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	3.68	3.82	3.98										
20.0	3.65	3.83	4.03	4.25									
25.0	3.76	4.02	4.29	4.59	4.90	5.24							
30.0	4.05	4.39	4.74	5.12	5.51	5.93	6.37	6.55	6.82				
35.0	4.49	4.91	5.35	5.81	6.29	6.79	7.32	7.53	7.86	8.14	8.42		
40.0	5.04	5.55	6.08	6.63	7.21	7.80	8.41	8.66	9.05	9.37	9.70	10.40	11.05
45.0	5.68	6.28	6.91	7.56	8.23	8.92	9.63	9.92	10.35	10.75	11.10	11.90	12.70
50.0	6.36	7.07	7.80	8.55	9.32	10.10	10.90	11.25	11.75	12.20	12.60	13.50	14.40
55.0	7.06	7.88	8.71	9.57	10.45	11.35	12.25	12.65	13.20	13.70	14.20	15.15	16.15
60.0		8.68	9.63	10.60	11.60	12.60	13.65	14.05	14.70	15.25	15.75		
65.0			10.50	11.60	12.70	13.85	15.00	15.45	16.15				
67.0			10.85	12.00	13.15	14.30	15.50	16.00					

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	9.42	9.65	9.90										
20.0	9.41	9.68	9.98	10.29									
25.0	9.60	9.95	10.33	10.73	11.15	11.59							
30.0	10.01	10.46	10.93	11.43	11.95	12.49	13.05	13.28	13.62				
35.0	10.62	11.17	11.74	12.34	12.97	13.62	14.30	14.58	14.99	15.35	15.71		
40.0	11.36	12.02	12.71	13.43	14.18	14.95	15.75	16.08	16.58	17.00	17.42	18.29	19.17
45.0	12.21	12.99	13.81	14.65	15.53	16.44	17.37	17.75	18.33	18.82	19.32	20.33	21.36
50.0	13.12	14.03	14.98	15.96	16.98	18.03	19.11	19.55	20.22	20.79	21.36	22.52	23.71
55.0	14.05	15.10	16.19	17.32	18.49	19.69	20.92	21.43	22.19	22.84	23.49	24.82	26.18
60.0		16.15	17.40	18.68	20.01	21.37	22.78	23.35	24.21	24.94	25.68		
65.0			18.56	20.01	21.51	23.04	24.62	25.26	26.24				
67.0			19.00	20.52	22.09	23.70	25.35	26.02					

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	50.10	63.00	78.00										
20.0	50.00	62.80	77.80	95.40									
25.0	49.70	62.60	77.60	95.00	115.00	138.50							
30.0	49.50	62.30	77.30	94.50	114.50	137.50	164.00	175.50	194.00				
35.0	49.20	62.10	76.90	94.10	114.00	136.50	162.50	174.00	192.50	209.00	226.00		
40.0	48.80	61.70	76.50	93.60	113.00	135.50	161.50	172.50	190.50	207.00	224.00	261.00	303.00
45.0	48.50	61.40	76.10	93.00	112.50	134.50	160.00	171.00	189.00	205.00	222.00	258.00	300.00
50.0	48.10	61.00	75.70	92.40	111.50	133.50	158.50	169.50	187.00	203.00	219.00	255.00	296.00
55.0	47.70	60.60	75.20	91.80	110.50	132.50	157.00	167.50	185.00	200.00	217.00	252.00	292.00
60.0		60.20	74.70	91.10	110.00	131.00	155.50	166.00	183.00	198.00	214.00		
65.0			74.10	90.40	109.00	130.00	153.50	164.00	181.00				
67.0			73.90	90.10	108.50	129.50	153.00	163.50					

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	29.1
Length/Width, mm	280/280
Height, mm	534
Net Weight, kg	63.1
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (0)
Sound Pressure @ 1m (LT), dBA	68
Sound Power (LT), dBA	79
Sound Conditions (LT, Temperatures:	-35 / 40 / 20 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	25
Locked Rotor Current, A	100
Winding Resistance, ohm	1.24
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	66 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
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
TFC	200-240 V / 3~ / 50 Hz	200		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TFC	208-230 V / 3~ / 60 Hz	220		Y	2.18