



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	17.95	22.00	26.90										
20.0	17.90	22.00	26.90	32.70									
25.0	17.65	21.80	26.70	32.50	39.10	46.90							
30.0	17.20	21.50	26.40	32.00	38.50	45.90	54.50	58.30	64.30				
35.0	16.65	21.00	25.90	31.30	37.60	44.70	52.90	56.50	62.20	67.40	72.90		
40.0	15.95	20.40	25.20	30.50	36.50	43.30	51.00	54.40	59.90	64.70	69.90	81.30	94.10
45.0	15.15	19.55	24.30	29.40	35.20	41.70	49.00	52.10	57.20	61.80	66.70	77.30	89.30
50.0	14.20	18.60	23.30	28.20	33.70	39.80	46.60	49.60	54.40	58.60	63.10	73.00	
55.0	13.15	17.55	22.10	26.90	32.00	37.70	44.10	46.90	51.30	55.20			
60.0		16.35	20.80	25.30	30.20	35.50							
65.0			19.30	23.60									
67.0			18.70	22.90									

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	5.35	5.58	5.86										
20.0	5.39	5.68	6.02	6.40									
25.0	5.64	6.02	6.45	6.92	7.44	8.01							
30.0	6.11	6.57	7.07	7.63	8.23	8.88	9.57	9.86	10.30				
35.0	6.81	7.33	7.90	8.52	9.19	9.91	10.65	11.00	11.50	11.90	12.35		
40.0	7.74	8.32	8.94	9.62	10.35	11.10	11.95	12.30	12.80	13.25	13.70	14.70	15.70
45.0	8.91	9.53	10.20	10.90	11.70	12.50	13.40	13.75	14.30	14.75	15.25	16.25	17.30
50.0	10.35	11.00	11.70	12.45	13.25	14.10	15.00	15.35	15.95	16.45	16.95	17.95	
55.0	12.00	12.65	13.40	14.15	15.00	15.85	16.80	17.15	17.75	18.25			
60.0		14.60	15.35	16.10	16.95	17.85							
65.0			17.50	18.30									
67.0			18.45	19.25									

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	12.17	12.33	12.56										
20.0	12.13	12.39	12.71	13.10									
25.0	12.30	12.70	13.17	13.71	14.31	14.99							
30.0	12.77	13.30	13.90	14.56	15.30	16.11	16.99	17.36	17.94				
35.0	13.56	14.20	14.91	15.69	16.54	17.47	18.47	18.90	19.55	20.12	20.70		
40.0	14.69	15.43	16.23	17.11	18.07	19.10	20.21	20.67	21.39	22.01	22.65	23.99	25.39
45.0	16.19	17.00	17.89	18.86	19.90	21.01	22.21	22.71	23.49	24.15	24.84	26.27	27.78
50.0	18.07	18.95	19.91	20.94	22.05	23.24	24.51	25.04	25.86	26.56	27.29	28.80	
55.0	20.36	21.29	22.30	23.38	24.55	25.80	27.12	27.68	28.53	29.27			
60.0		24.04	25.09	26.21	27.42	28.71							
65.0			28.30	29.45									
67.0			29.71	30.86									

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	76.10	94.40	115.50										
20.0	76.20	94.90	116.00	141.00									
25.0	75.80	95.30	117.00	142.50	171.00	204.00							
30.0	74.90	94.90	117.50	143.00	172.00	205.00	244.00	260.00	287.00				
35.0	73.30	93.90	117.00	142.50	172.00	206.00	244.00	261.00	287.00	311.00	337.00		
40.0	71.20	92.30	115.50	141.50	171.00	205.00	243.00	260.00	286.00	310.00	336.00	391.00	454.00
45.0	68.50	90.00	113.50	140.00	169.50	203.00	241.00	258.00	284.00	308.00	333.00	388.00	451.00
50.0	65.30	87.10	111.00	137.50	167.00	200.00	238.00	255.00	281.00	304.00	329.00	384.00	
55.0	61.50	83.60	107.50	134.00	163.50	196.50	234.00	251.00	277.00	300.00			
60.0		79.40	103.50	130.00	159.00	192.00							
65.0			98.70	125.00									
67.0			96.70	123.00									

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	42.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	66.2
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	72
Sound Power (LT), dBA	83
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °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	22.6
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	30
Locked Rotor Current, A	139
Winding Resistance, ohm	1.09
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**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
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