



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	14.75	18.20	22.40										
20.0	14.65	18.10	22.30	27.30									
25.0	14.50	17.95	22.00	26.80	32.40	38.80							
30.0	14.25	17.70	21.70	26.30	31.70	37.80	44.60	47.60	52.30				
35.0	14.00	17.35	21.30	25.70	30.90	36.70	43.20	46.00	50.50	54.40	58.60		
40.0	13.65	16.95	20.80	25.10	29.90	35.40	41.60	44.30	48.50	52.20	56.10	64.50	73.80
45.0	13.25	16.50	20.20	24.30	28.90	34.10	39.90	42.40	46.40	49.80	53.50	61.40	70.00
50.0	12.75	15.95	19.50	23.40	27.80	32.70	38.10	40.50	44.10	47.40	50.80	58.10	66.10
55.0	12.25	15.35	18.75	22.50	26.60	31.20	36.20	38.40	41.80	44.80	47.90	54.60	
60.0		14.65	17.90	21.50	25.30	29.50							
65.0			17.00										

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	4.62	4.54	4.71										
20.0	4.65	4.62	4.81	5.26									
25.0	4.83	4.92	5.17	5.62	6.30	7.24							
30.0	5.19	5.41	5.74	6.22	6.86	7.72	8.83	9.34	10.20				
35.0	5.72	6.10	6.53	7.05	7.69	8.49	9.47	9.92	10.70	11.35	12.15		
40.0	6.39	6.96	7.52	8.11	8.77	9.52	10.40	10.80	11.45	12.05	12.70	14.20	15.95
45.0	7.21	7.98	8.69	9.38	10.10	10.80	11.65	12.00	12.55	13.05	13.65	14.90	16.35
50.0	8.16	9.16	10.05	10.85	11.60	12.35	13.15	13.45	13.95	14.40	14.85	15.90	17.10
55.0	9.23	10.50	11.55	12.50	13.35	14.15	14.90	15.20	15.65	16.00	16.40	17.25	
60.0		11.95	13.25	14.35	15.30	16.15							
65.0			15.05										

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	12.07	11.89	12.02										
20.0	12.09	11.98	12.12	12.59									
25.0	12.25	12.28	12.49	12.95	13.70	14.80							
30.0	12.58	12.78	13.10	13.59	14.31	15.30	16.62	17.25	18.31				
35.0	13.09	13.50	13.96	14.52	15.25	16.17	17.36	17.91	18.84	19.71	20.67		
40.0	13.78	14.43	15.07	15.75	16.51	17.41	18.50	19.00	19.82	20.58	21.42	23.35	25.67
45.0	14.67	15.60	16.46	17.28	18.12	19.03	20.06	20.51	21.25	21.92	22.66	24.33	26.31
50.0	15.76	17.01	18.12	19.13	20.09	21.04	22.05	22.47	23.15	23.75	24.40	25.84	27.52
55.0	17.06	18.67	20.07	21.30	22.41	23.45	24.47	24.89	25.52	26.07	26.65	27.90	
60.0		20.59	22.31	23.80	25.11	26.27							
65.0			24.86										

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	62.40	77.80	96.10											
20.0	62.50	78.00	96.40	118.00										
25.0	62.40	78.20	96.70	118.00	143.50	172.50								
30.0	62.10	78.10	96.60	118.00	143.00	171.50	205.00	219.00	242.00					
35.0	61.60	77.60	96.10	117.50	142.00	170.50	203.00	217.00	240.00	260.00	282.00			
40.0	60.80	76.80	95.20	116.50	140.50	168.50	200.00	214.00	237.00	257.00	278.00	324.00	376.00	
45.0	59.80	75.70	93.90	114.50	138.50	166.00	197.50	211.00	233.00	252.00	273.00	319.00	370.00	
50.0	58.40	74.20	92.20	112.50	136.00	163.00	193.50	207.00	228.00	247.00	268.00	312.00	362.00	
55.0	56.70	72.40	90.00	110.00	133.00	159.00	189.00	202.00	223.00	241.00	261.00	304.00		
60.0		70.10	87.40	107.00	129.00	154.50								
65.0			84.30											

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	35.3
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	69
Sound Power (LT), dBA	80
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	29
Locked Rotor Current, A	118
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**

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