



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													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	11.00	13.85	17.20	21.30	26.10	28.30								
25.0	10.65	13.40	16.65	20.50	25.20	27.20	30.60							
30.0	10.15	12.90	16.05	19.80	24.20	26.20	29.40	32.40	35.50					
35.0	9.62	12.30	15.35	18.95	23.20	25.10	28.20	31.00	34.00					
40.0	8.99	11.65	14.65	18.10	22.20	24.00	26.90	29.60	32.50	39.00				
45.0		10.90	13.85	17.20	21.10	22.80	25.60	28.20	30.90	37.10	44.30			
50.0		10.05	12.95	16.20	19.95	21.60	24.30	26.70	29.40	35.20	42.10	49.90		
55.0			11.95	15.15	18.75	20.40	22.90	25.20	27.70	33.30	39.80	47.30	55.90	
60.0			10.90	14.00	17.50	19.00	21.50	23.70	26.10	31.40	37.60	44.70	52.80	62.20
65.0				12.75	16.15	17.60	19.95	22.10	24.40	29.40	35.30	42.00	49.80	58.70
70.0				11.45	14.70	16.15	18.40	20.40	22.60	27.40	32.90	39.30	46.70	55.10
75.0				9.99	13.20	14.55	16.70	18.65	20.70	25.30	30.60	36.60	43.60	51.60
80.0							14.95	16.85	18.80	23.10	28.10	33.90	40.50	48.10
85.0										20.90	25.60	31.10	37.30	44.50

Cond °C	Power, kW													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	2.92	2.94	2.96	3.00	3.06	3.09								
25.0	3.22	3.25	3.27	3.30	3.35	3.37	3.42							
30.0	3.54	3.59	3.61	3.64	3.67	3.69	3.73	3.77	3.82					
35.0	3.90	3.95	3.99	4.01	4.04	4.05	4.08	4.11	4.15					
40.0	4.28	4.36	4.40	4.43	4.45	4.46	4.48	4.50	4.53	4.61				
45.0		4.80	4.86	4.89	4.91	4.92	4.93	4.95	4.97	5.03	5.14			
50.0		5.30	5.37	5.41	5.43	5.44	5.45	5.46	5.48	5.52	5.60	5.72		
55.0			5.94	5.99	6.02	6.03	6.03	6.04	6.05	6.08	6.14	6.23	6.38	
60.0			6.57	6.64	6.67	6.68	6.69	6.70	6.70	6.72	6.76	6.83	6.94	7.11
65.0				7.35	7.40	7.42	7.43	7.43	7.44	7.45	7.47	7.51	7.60	7.73
70.0				8.15	8.21	8.23	8.25	8.25	8.26	8.26	8.27	8.30	8.35	8.45
75.0				9.02	9.11	9.13	9.15	9.16	9.17	9.17	9.17	9.18	9.22	9.29
80.0							10.15	10.15	10.20	10.20	10.20	10.20	10.20	10.25
85.0										11.30	11.30	11.30	11.30	11.30

Cond °C	Current at 400 V, A													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	9.18	9.33	9.47	9.59	9.68	9.70								
25.0	9.36	9.49	9.61	9.73	9.81	9.84	9.86							
30.0	9.63	9.72	9.82	9.92	10.01	10.04	10.07	10.08	10.07					
35.0	9.98	10.03	10.11	10.20	10.28	10.31	10.34	10.36	10.36					
40.0	10.41	10.43	10.49	10.56	10.63	10.66	10.69	10.72	10.73	10.72				
45.0		10.93	10.95	11.01	11.07	11.10	11.13	11.16	11.18	11.19	11.16			
50.0		11.53	11.52	11.55	11.60	11.63	11.66	11.69	11.72	11.75	11.74	11.67		
55.0			12.20	12.20	12.24	12.26	12.29	12.32	12.35	12.39	12.41	12.38	12.29	
60.0			12.99	12.96	12.98	13.00	13.03	13.06	13.09	13.14	13.18	13.18	13.14	13.03
65.0				13.85	13.84	13.86	13.88	13.91	13.94	14.00	14.06	14.09	14.08	14.02
70.0				14.85	14.83	14.83	14.85	14.88	14.91	14.98	15.05	15.11	15.14	15.12
75.0				16.00	15.95	15.94	15.95	15.97	16.00	16.08	16.16	16.24	16.30	16.33
80.0							17.19	17.20	17.23	17.30	17.40	17.50	17.59	17.66
85.0										18.67	18.77	18.89	19.01	19.12

Cond °C	Suction Mass Flow, g/s													
	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0	30.0	35.0	40.0
20.0	60.30	74.40	91.00	110.50	133.50	143.50								
25.0	60.50	74.80	91.40	110.50	133.50	143.50	159.50							
30.0	60.30	74.90	91.60	111.00	133.50	143.00	159.50	173.50	189.50					
35.0	59.60	74.70	91.60	111.00	133.00	143.00	159.00	173.00	188.50					
40.0	58.30	74.00	91.20	110.50	133.00	142.50	158.50	172.50	187.50	221.00				
45.0		72.60	90.30	110.00	132.00	142.00	157.50	171.50	186.50	220.00	258.00			
50.0		70.60	88.90	109.00	131.00	141.00	156.50	170.50	185.50	218.00	256.00	299.00		
55.0			86.70	107.50	130.00	139.50	155.50	169.00	184.00	217.00	254.00	296.00	344.00	
60.0			83.70	105.00	128.00	138.00	153.50	167.50	182.50	215.00	252.00	294.00	342.00	395.00
65.0				101.50	125.50	135.50	151.50	165.50	180.50	213.00	250.00	292.00	339.00	393.00
70.0				97.40	122.00	132.50	148.50	163.00	178.00	211.00	248.00	290.00	337.00	390.00
75.0				91.70	117.50	128.00	145.00	159.50	175.00	208.00	245.00	287.00	335.00	388.00
80.0							140.50	155.50	171.00	205.00	243.00	285.00	333.00	387.00
85.0										202.00	240.00	283.00	332.00	386.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	29.1
Length/Width, mm	281/285
Height, mm	533
Net Weight, kg	61.2
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.38
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 (HT), dBA	63
Sound Power (HT), dBA	74
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Low Side Internal Free Volume, l	12.6
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.1
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Low Side TS Min., °C	-35
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	20.7
Locked Rotor Current, A	118
Winding Resistance, ohm	1.23
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Enclosure Class	IP21
Mounting Grommets	Rubber Grommet For Single
Oil Charge	
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve

### **ACCESSORIES OPTIONAL**

Crankcase Heater	66 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Adapter Kit	R1"1/4 -B 1"1/8 For TPTL for
Oil Control System	Parallel Operation
Sound Attenuation	ALCO Trax-Oil OM3 Sound Shell (12dBA)

### **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
TF5	200-220 V / 3~ / 50 Hz	200		Y	2.09
TFE	500 V / 3~ / 50 Hz	500		Y	0.80
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TFE	575 V / 3~ / 60 Hz	575		Y	0.80
TF7	380 V / 3~ / 60 Hz	380		Y	1.26