



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

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	15.70	19.60	24.20	29.60	36.00	38.90								
25.0	15.05	18.90	23.40	28.70	34.90	37.70	42.20							
30.0	14.30	18.05	22.50	27.60	33.60	36.30	40.70	44.60	48.80					
35.0	13.35	17.10	21.40	26.40	32.20	34.80	39.00	42.80	46.80					
40.0	12.35	16.05	20.20	25.00	30.70	33.10	37.20	40.80	44.70	53.50				
45.0		14.85	18.90	23.60	29.00	31.40	35.20	38.70	42.50	50.80	60.40			
50.0		13.55	17.50	22.00	27.20	29.40	33.10	36.50	40.10	48.10	57.30	67.80		
55.0			15.95	20.30	25.20	27.40	30.90	34.10	37.50	45.20	53.90	64.00	75.40	
60.0			14.35	18.50	23.20	25.30	28.60	31.70	34.90	42.10	50.50	60.00	71.00	83.40
65.0				16.60	21.10	23.10	26.20	29.10	32.10	39.00	46.90	55.90	66.30	78.10
70.0				14.65	18.90	20.70	23.70	26.40	29.30	35.70	43.20	51.70	61.50	72.70
75.0				12.65	16.60	18.35	21.10	23.60	26.30	32.30	39.30	47.30	56.60	67.10
80.0							18.45	20.80	23.30	28.90	35.30	42.80	51.50	61.40
85.0										25.20	31.20	38.10	46.10	55.30

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	4.73	4.83	4.94	5.08	5.26	5.35								
25.0	5.12	5.21	5.31	5.42	5.56	5.64	5.76							
30.0	5.60	5.68	5.76	5.84	5.96	6.02	6.12	6.23	6.35					
35.0	6.17	6.24	6.30	6.37	6.46	6.50	6.59	6.67	6.78					
40.0	6.82	6.89	6.94	6.99	7.06	7.09	7.16	7.23	7.31	7.54				
45.0		7.64	7.68	7.72	7.77	7.79	7.84	7.90	7.96	8.15	8.41			
50.0		8.49	8.53	8.56	8.59	8.61	8.64	8.68	8.73	8.88	9.10	9.42		
55.0			9.49	9.52	9.53	9.54	9.57	9.59	9.63	9.75	9.93	10.20	10.55	
60.0			10.55	10.60	10.60	10.60	10.60	10.65	10.65	10.75	10.90	11.10	11.45	11.85
65.0				11.80	11.80	11.80	11.80	11.80	11.80	11.90	12.00	12.20	12.45	12.85
70.0				13.10	13.10	13.10	13.10	13.10	13.10	13.15	13.25	13.40	13.65	13.95
75.0				14.60	14.60	14.60	14.55	14.55	14.55	14.60	14.65	14.75	14.95	15.25
80.0							16.20	16.15	16.15	16.15	16.20	16.30	16.45	16.70
85.0										17.90	17.90	18.00	18.10	18.30

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	16.46	16.51	16.52	16.52	16.56	16.59								
25.0	17.54	17.61	17.62	17.60	17.60	17.62	17.66							
30.0	18.42	18.52	18.53	18.51	18.49	18.50	18.51	18.55	18.61					
35.0	19.15	19.28	19.32	19.30	19.27	19.26	19.27	19.28	19.32					
40.0	19.78	19.95	20.02	20.02	19.98	19.97	19.96	19.96	19.98	20.09				
45.0		20.57	20.68	20.70	20.68	20.66	20.65	20.64	20.65	20.72	20.90			
50.0		21.18	21.34	21.39	21.39	21.38	21.37	21.36	21.35	21.40	21.53	21.80		
55.0			22.04	22.15	22.18	22.17	22.16	22.16	22.15	22.18	22.28	22.50	22.87	
60.0			22.85	23.01	23.07	23.08	23.09	23.09	23.08	23.10	23.19	23.37	23.68	24.18
65.0				24.02	24.13	24.16	24.18	24.19	24.20	24.22	24.29	24.44	24.72	25.16
70.0				25.22	25.40	25.44	25.49	25.52	25.54	25.57	25.64	25.78	26.02	26.41
75.0				26.66	26.91	26.98	27.06	27.11	27.15	27.21	27.28	27.41	27.63	27.98
80.0							28.93	29.01	29.07	29.17	29.26	29.40	29.61	29.93
85.0										31.50	31.62	31.77	31.98	32.28

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	92.40	113.00	137.00	164.50	197.00	211.00								
25.0	92.50	114.00	138.00	166.50	198.50	213.00	236.00							
30.0	91.80	114.00	138.50	167.00	199.50	214.00	237.00	258.00	280.00					
35.0	90.30	113.00	138.50	167.00	200.00	214.00	237.00	258.00	280.00					
40.0	87.80	111.50	137.50	166.50	199.50	214.00	237.00	258.00	280.00	328.00				
45.0		108.50	135.50	165.00	198.50	213.00	236.00	257.00	279.00	327.00	382.00			
50.0		105.00	132.50	162.50	196.50	211.00	234.00	255.00	277.00	326.00	381.00	442.00		
55.0			128.50	159.50	193.50	208.00	232.00	253.00	275.00	323.00	378.00	440.00	509.00	
60.0			124.00	155.00	189.50	205.00	228.00	249.00	272.00	320.00	375.00	437.00	506.00	584.00
65.0				150.00	185.00	200.00	224.00	245.00	267.00	316.00	371.00	433.00	503.00	581.00
70.0				143.50	179.00	194.50	218.00	240.00	262.00	312.00	367.00	429.00	499.00	577.00
75.0				135.50	172.00	187.50	212.00	233.00	256.00	306.00	362.00	424.00	495.00	574.00
80.0							204.00	226.00	249.00	299.00	356.00	419.00	490.00	570.00
85.0										292.00	349.00	414.00	486.00	567.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	43.3
Length/Width, mm	281/285
Height, mm	552
Net Weight, kg	66.2
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, dBA	71
Sound Power, dBA	82
PED Category	2
Max. Internal Free Volume, l	14.0
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	34.3
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

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

### **ACCESSORIES OPTIONAL**

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

### **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
TWE	500 V / 3~ / 50 Hz	500		Y	0.80
TW5	200-220 V / 3~ / 50 Hz	200		Y	2.30
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TWE	575 V / 3~ / 60 Hz	575		Y	0.80
TW7	380 V / 3~ / 60 Hz	380		Y	1.26
TW5	200-230 V / 3~ / 60 Hz	230		Y	2.30