



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	7.97	10.15	12.65	15.50	18.85	20.40								
25.0	7.65	9.86	12.35	15.20	18.50	19.95	22.30							
30.0	7.19	9.43	11.95	14.75	18.00	19.45	21.70	23.80	26.10					
35.0	6.60	8.88	11.35	14.15	17.35	18.75	21.00	23.10	25.30					
40.0	5.90	8.20	10.70	13.45	16.60	17.95	20.20	22.20	24.30	29.00				
45.0		7.42	9.91	12.65	15.70	17.05	19.20	21.10	23.20	27.80	33.10			
50.0		6.54	9.03	11.75	14.75	16.05	18.15	20.00	22.00	26.50	31.60	37.40		
55.0			8.05	10.70	13.65	14.95	16.95	18.80	20.70	25.00	29.90	35.60	42.00	
60.0			7.00	9.63	12.50	13.75	15.70	17.45	19.35	23.50	28.20	33.70	39.90	46.90
65.0				8.47	11.25	12.50	14.40	16.10	17.90	21.90	26.40	31.70	37.60	44.40
70.0				7.24	9.98	11.15	13.00	14.65	16.35	20.20	24.60	29.60	35.30	41.80
75.0				5.97	8.63	9.76	11.55	13.10	14.80	18.45	22.60	27.40	32.90	39.20
80.0							10.05	11.55	13.15	16.65	20.70	25.20	30.50	36.40
85.0										14.85	18.65	23.00	28.00	33.70

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	2.31	2.34	2.35	2.37	2.40	2.41								
25.0	2.51	2.54	2.56	2.58	2.60	2.61	2.63							
30.0	2.75	2.78	2.80	2.81	2.83	2.84	2.86	2.88	2.91					
35.0	3.03	3.06	3.08	3.09	3.11	3.11	3.13	3.15	3.17					
40.0	3.35	3.39	3.41	3.42	3.43	3.43	3.44	3.46	3.47	3.52				
45.0		3.77	3.79	3.79	3.80	3.80	3.81	3.81	3.83	3.87	3.93			
50.0		4.21	4.23	4.23	4.23	4.23	4.23	4.23	4.24	4.27	4.32	4.40		
55.0			4.73	4.73	4.72	4.72	4.71	4.71	4.71	4.73	4.76	4.83	4.93	
60.0			5.31	5.30	5.29	5.28	5.27	5.26	5.26	5.26	5.28	5.33	5.41	5.53
65.0				5.95	5.93	5.92	5.90	5.89	5.88	5.87	5.87	5.90	5.96	6.06
70.0				6.68	6.65	6.64	6.62	6.60	6.58	6.55	6.54	6.55	6.59	6.67
75.0				7.51	7.47	7.45	7.42	7.39	7.37	7.33	7.30	7.29	7.31	7.37
80.0							8.32	8.29	8.26	8.20	8.15	8.13	8.13	8.16
85.0										9.17	9.10	9.06	9.03	9.04

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	8.45	8.50	8.56	8.65	8.78	8.84								
25.0	8.48	8.52	8.56	8.62	8.71	8.75	8.83							
30.0	8.59	8.61	8.63	8.67	8.72	8.75	8.81	8.87	8.95					
35.0	8.76	8.78	8.79	8.81	8.83	8.85	8.89	8.93	8.98					
40.0	9.01	9.03	9.03	9.03	9.04	9.05	9.07	9.09	9.13	9.23				
45.0		9.36	9.36	9.35	9.35	9.35	9.35	9.36	9.38	9.44	9.55			
50.0		9.77	9.78	9.77	9.75	9.74	9.74	9.74	9.74	9.77	9.84	9.97		
55.0			10.29	10.28	10.26	10.25	10.23	10.22	10.22	10.22	10.26	10.35	10.49	
60.0			10.89	10.89	10.87	10.86	10.84	10.82	10.81	10.79	10.81	10.86	10.96	11.12
65.0				11.61	11.59	11.58	11.56	11.54	11.52	11.49	11.48	11.50	11.56	11.68
70.0				12.42	12.42	12.41	12.39	12.37	12.35	12.31	12.29	12.28	12.31	12.39
75.0				13.34	13.36	13.36	13.34	13.33	13.31	13.27	13.23	13.20	13.21	13.25
80.0							14.41	14.40	14.39	14.35	14.30	14.27	14.25	14.27
85.0										15.56	15.52	15.47	15.45	15.44

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	43.60	54.60	66.80	80.60	96.40	103.50								
25.0	43.50	55.10	67.80	82.00	98.10	105.00	116.50							
30.0	42.60	54.90	68.10	82.70	99.10	106.50	118.00	128.00	139.00					
35.0	40.90	53.90	67.70	82.80	99.60	107.00	118.50	129.00	140.00					
40.0	38.30	52.10	66.60	82.20	99.40	107.00	118.50	129.00	140.00	164.50				
45.0		49.50	64.70	80.90	98.50	106.00	118.00	128.50	140.00	164.50	192.50			
50.0		46.00	62.00	78.80	96.90	104.50	117.00	127.50	139.00	164.00	192.00	224.00		
55.0			58.40	75.90	94.60	102.50	115.00	126.00	137.50	163.00	191.00	223.00	259.00	
60.0			53.80	72.10	91.50	99.60	112.50	123.50	135.50	161.00	189.50	222.00	258.00	298.00
65.0				67.50	87.60	96.00	109.00	120.50	132.50	158.50	187.50	220.00	256.00	297.00
70.0				61.70	82.70	91.50	105.00	116.50	129.00	155.50	185.00	218.00	255.00	296.00
75.0				54.80	76.90	86.00	100.00	112.00	125.00	152.00	182.00	215.00	253.00	295.00
80.0							94.20	107.00	120.00	147.50	178.50	213.00	251.00	293.00
85.0										143.00	174.50	210.00	249.00	292.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	22.1
Length/Width, mm	264/285
Height, mm	476
Net Weight, kg	57.2
Stub Suction, inch	1 1/8
Stub Discharge, inch	7/8
Oil Quantity, l	2.65
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 (8.5)
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
Refrigerant's GWP	1430
Refrigerant's classification	A1

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

Maximum Operating Current, A	16.4
Locked Rotor Current, A	95
Winding Resistance, ohm	1.8
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

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
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