



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- 5 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
10.0	8.34	10.50	13.05	16.05	19.60	23.60							
15.0	7.90	10.00	12.50	15.40	18.85	22.80	27.30						
20.0	7.48	9.53	11.95	14.80	18.10	21.90	26.30	31.20					
25.0	7.06	9.06	11.40	14.20	17.40	21.10	25.30	30.10	32.10	35.40			
30.0	6.63	8.59	10.90	13.55	16.65	20.20	24.30	28.90	30.90	34.10	36.90	39.90	
35.0		8.08	10.30	12.90	15.90	19.35	23.30	27.70	29.70	32.70	35.50	38.30	
40.0			9.71	12.25	15.15	18.45	22.20	26.50	28.40	31.30	34.00	36.70	42.80
45.0				11.50	14.30	17.50	21.10	25.20	27.00	29.90	32.40	35.10	40.90
50.0					13.40	16.45	19.95	23.90	25.60	28.40	30.80	33.40	39.00
55.0						15.35	18.70	22.50	24.10	26.80	29.10	31.60	36.90
60.0							17.35	21.00	22.60	25.10	27.30	29.70	34.80
65.0								19.35	20.90	23.30	25.40	27.70	32.60

Cond °C	Power, kW												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
10.0	2.22	2.27	2.30	2.31	2.32	2.35							
15.0	2.66	2.74	2.79	2.83	2.86	2.90	2.97						
20.0	3.08	3.18	3.25	3.30	3.35	3.40	3.48	3.59					
25.0	3.49	3.62	3.70	3.77	3.82	3.88	3.96	4.07	4.13	4.23			
30.0	3.92	4.07	4.16	4.24	4.30	4.36	4.43	4.54	4.60	4.70	4.80	4.91	
35.0		4.56	4.66	4.74	4.80	4.86	4.93	5.03	5.08	5.17	5.26	5.37	
40.0			5.22	5.30	5.36	5.41	5.47	5.56	5.60	5.68	5.76	5.86	6.10
45.0				5.94	5.99	6.03	6.08	6.14	6.18	6.25	6.32	6.40	6.62
50.0					6.72	6.74	6.77	6.82	6.84	6.90	6.95	7.02	7.21
55.0						7.58	7.58	7.60	7.62	7.65	7.69	7.74	7.89
60.0							8.53	8.52	8.52	8.53	8.55	8.58	8.69
65.0								9.59	9.58	9.56	9.57	9.58	9.64

Cond °C	Current at 400 V, A												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
10.0	6.65	6.66	6.69	6.73	6.79	6.88							
15.0	7.28	7.31	7.34	7.40	7.47	7.57	7.70						
20.0	7.87	7.91	7.95	8.00	8.08	8.18	8.32	8.49					
25.0	8.46	8.49	8.53	8.59	8.66	8.76	8.90	9.06	9.14	9.27			
30.0	9.08	9.11	9.14	9.19	9.26	9.36	9.48	9.64	9.71	9.84	9.96	10.09	
35.0		9.80	9.82	9.86	9.91	9.99	10.10	10.25	10.32	10.43	10.54	10.67	
40.0			10.60	10.62	10.66	10.72	10.81	10.94	11.00	11.10	11.20	11.31	11.57
45.0				11.52	11.54	11.57	11.64	11.74	11.79	11.88	11.96	12.06	12.30
50.0					12.59	12.59	12.63	12.70	12.74	12.81	12.88	12.96	13.16
55.0						13.82	13.82	13.85	13.88	13.92	13.98	14.04	14.20
60.0							15.25	15.24	15.25	15.27	15.30	15.34	15.46
65.0								16.91	16.90	16.89	16.90	16.91	16.98

Cond °C	Suction Mass Flow, g/s												
	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
10.0	44.50	55.20	67.80	82.60	99.50	119.00							
15.0	43.50	54.30	67.00	81.80	98.80	118.00	140.00						
20.0	42.60	53.60	66.40	81.20	98.10	117.50	139.00	163.50					
25.0	41.70	52.80	65.70	80.50	97.50	117.00	138.50	163.00	173.50	190.00			
30.0	40.70	51.90	65.00	79.90	96.90	116.00	138.00	162.00	172.50	189.50	204.00	219.00	
35.0		50.90	64.00	79.10	96.10	115.50	137.00	161.50	172.00	188.50	203.00	219.00	
40.0			62.80	78.00	95.10	114.50	136.00	160.50	171.00	187.50	202.00	217.00	251.00
45.0				76.50	93.80	113.00	135.00	159.00	169.50	186.50	201.00	216.00	249.00
50.0					91.90	111.50	133.50	157.50	168.00	184.50	199.50	215.00	248.00
55.0						109.00	131.00	155.50	166.00	182.50	197.50	213.00	246.00
60.0							128.00	152.50	163.50	180.00	194.50	210.00	244.00
65.0								149.00	159.50	176.50	191.50	207.00	241.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	25.0
Length/Width, mm	281/285
Height, mm	533
Net Weight, kg	59.9
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.25
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:	7 / 54 / 18 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	2
Max. Internal Free Volume, l	13.3
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	1810
Refrigerant's classification	A1

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

Maximum Operating Current, A	17.7
Locked Rotor Current, A	111
Winding Resistance, ohm	1.37
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	ASTP Therm-O-Disc In Scroll
Enclosure Class	IP21
Oil Charge	
Oil Service Valve	Schraeder Valve
Check Valve	Discharge Low Leak Check Valve

ACCESSORIES OPTIONAL

Crankcase Heater	90 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Mounting Grommets	Rubber Grommet For Single
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
TW5	200-220 V / 3~ / 50 Hz	200		Y	2.30
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TF5	200-230 V / 3~ / 60 Hz	230		Y	2.09
TW7	380 V / 3~ / 60 Hz	380		Y	1.26
TFE	575 V / 3~ / 60 Hz	575		Y	0.80
TF7	380 V / 3~ / 60 Hz	380		Y	1.26
TW5	200-230 V / 3~ / 60 Hz	230		Y	2.30