



Minimum Evaporating Temp. With:

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

Suction Superheat 11.1K

Liquid Subcooling 8.3K

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	12.00	15.00	18.65	22.90	27.70	33.10							
15.0	11.50	14.40	18.00	22.20	27.00	32.30	38.20						
20.0	11.05	13.80	17.25	21.40	26.10	31.40	37.20	43.50					
25.0	10.55	13.20	16.50	20.50	25.20	30.40	36.10	42.40	45.10	49.20			
30.0	10.15	12.55	15.75	19.60	24.10	29.20	34.90	41.10	43.80	47.90	51.40	55.00	
35.0		11.95	14.95	18.65	23.00	28.00	33.60	39.70	42.30	46.30	49.80	53.40	
40.0			14.10	17.60	21.80	26.60	32.10	38.10	40.60	44.60	48.10	51.70	59.10
45.0				16.55	20.50	25.20	30.50	36.30	38.80	42.70	46.10	49.70	57.10
50.0					19.15	23.60	28.70	34.40	36.80	40.70	44.00	47.50	54.80
55.0						21.90	26.80	32.30	34.70	38.40	41.70	45.10	52.20
60.0							24.80	30.10	32.40	36.00	39.20	42.40	49.40
65.0								27.70	29.90	33.40	36.40	39.60	46.40

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	3.06	3.19	3.28	3.35	3.45	3.62							
15.0	3.52	3.69	3.79	3.87	3.96	4.09	4.32						
20.0	3.99	4.19	4.32	4.41	4.49	4.60	4.78	5.08					
25.0	4.48	4.73	4.89	4.98	5.06	5.15	5.30	5.55	5.68	5.93			
30.0	5.01	5.31	5.49	5.61	5.68	5.76	5.89	6.09	6.20	6.40	6.62	6.88	
35.0		5.94	6.16	6.29	6.38	6.45	6.54	6.70	6.79	6.96	7.14	7.36	
40.0			6.89	7.05	7.14	7.21	7.28	7.41	7.48	7.62	7.77	7.95	8.45
45.0				7.89	8.00	8.07	8.12	8.22	8.27	8.38	8.50	8.65	9.07
50.0					8.96	9.03	9.08	9.14	9.18	9.26	9.36	9.48	9.82
55.0						10.10	10.15	10.20	10.20	10.25	10.35	10.45	10.70
60.0							11.35	11.40	11.40	11.45	11.50	11.55	11.75
65.0								12.70	12.75	12.75	12.75	12.80	12.95

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	8.26	8.44	8.55	8.66	8.80	9.05							
15.0	8.76	8.98	9.12	9.22	9.35	9.55	9.88						
20.0	9.28	9.56	9.73	9.84	9.95	10.11	10.38	10.82					
25.0	9.84	10.19	10.40	10.53	10.63	10.77	10.98	11.34	11.54	11.89			
30.0	10.47	10.89	11.15	11.31	11.42	11.53	11.70	11.99	12.15	12.45	12.76	13.13	
35.0		11.69	12.01	12.20	12.31	12.41	12.55	12.78	12.91	13.15	13.41	13.73	
40.0			12.98	13.21	13.35	13.45	13.55	13.73	13.83	14.03	14.24	14.51	15.22
45.0				14.38	14.54	14.64	14.73	14.86	14.94	15.09	15.26	15.48	16.08
50.0					15.91	16.02	16.10	16.19	16.25	16.37	16.50	16.67	17.17
55.0						17.61	17.68	17.75	17.79	17.87	17.97	18.10	18.50
60.0							19.49	19.54	19.57	19.62	19.69	19.79	20.09
65.0								21.59	21.61	21.64	21.68	21.75	21.97

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	60.50	74.80	91.90	111.50	134.00	158.00							
15.0	59.80	74.00	91.20	111.50	134.00	158.50	185.50						
20.0	59.20	73.10	90.40	110.50	133.50	159.00	186.50	216.00					
25.0	58.60	72.20	89.30	109.50	133.00	158.50	186.50	217.00	229.00	249.00			
30.0	58.20	71.20	88.00	108.50	131.50	157.50	186.50	217.00	230.00	250.00	267.00	285.00	
35.0		70.20	86.60	106.50	130.00	156.00	185.00	217.00	230.00	250.00	268.00	286.00	
40.0			84.90	104.50	127.50	154.00	183.50	215.00	229.00	250.00	268.00	286.00	324.00
45.0				102.00	125.00	151.50	181.00	213.00	227.00	248.00	266.00	285.00	324.00
50.0					121.50	148.00	177.50	210.00	224.00	245.00	264.00	283.00	323.00
55.0						143.50	173.00	206.00	220.00	242.00	261.00	280.00	321.00
60.0							167.50	200.00	215.00	237.00	256.00	276.00	317.00
65.0								194.00	208.00	230.00	250.00	270.00	312.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	33.2
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	3.25
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	65
Sound Power (HT), dBA	76
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	22.3
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
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