



Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 20 °C Suction Gas Return
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	13.45	17.05	21.30	26.40						
15.0	12.80	16.35	20.50	25.40						
20.0	12.10	15.60	19.65	24.40	30.00					
25.0	11.40	14.80	18.75	23.40	28.80	35.00	37.80			
30.0	10.65	13.95	17.80	22.30	27.50	33.60	36.20	40.50	44.30	
35.0	9.85	13.05	16.80	21.20	26.20	32.00	34.60	38.70	42.40	46.30
40.0	9.00	12.10	15.75	19.95	24.80	30.40	32.90	36.80	40.40	44.10
45.0		11.10	14.60	18.65	23.30	28.70	31.10	34.90	38.30	41.90
50.0			13.40	17.25	21.80	26.90	29.20	32.80	36.10	39.50
55.0			12.10	15.80	20.10	25.00	27.20	30.60	33.80	37.10
60.0				14.25	18.30	23.00	25.00	28.40	31.30	34.50
65.0					16.40	20.90	22.80	25.90	28.80	31.80
70.0					14.45	18.60	20.40	23.40	26.10	28.90
75.0						16.20	17.95	20.70	23.20	25.90

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	3.51	3.58	3.67	3.78						
15.0	3.90	3.97	4.06	4.17						
20.0	4.32	4.39	4.47	4.58	4.71					
25.0	4.79	4.85	4.93	5.03	5.15	5.31	5.38			
30.0	5.31	5.37	5.44	5.53	5.65	5.79	5.86	5.97	6.08	
35.0	5.90	5.95	6.01	6.10	6.20	6.34	6.40	6.51	6.60	6.71
40.0	6.58	6.62	6.67	6.74	6.84	6.96	7.02	7.12	7.21	7.31
45.0		7.39	7.43	7.49	7.57	7.67	7.73	7.81	7.90	7.99
50.0			8.29	8.33	8.40	8.49	8.54	8.61	8.69	8.77
55.0			9.28	9.30	9.35	9.43	9.46	9.53	9.60	9.67
60.0				10.40	10.45	10.50	10.50	10.60	10.65	10.70
65.0					11.65	11.70	11.75	11.75	11.80	11.85
70.0					13.05	13.10	13.10	13.10	13.15	13.20
75.0						14.60	14.60	14.65	14.65	14.70

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	18.73	18.75	18.77	18.77						
15.0	19.06	19.09	19.12	19.14						
20.0	19.29	19.33	19.37	19.40	19.44					
25.0	19.48	19.52	19.56	19.61	19.66	19.73	19.76			
30.0	19.68	19.72	19.76	19.81	19.88	19.96	20.00	20.07	20.12	
35.0	19.97	19.99	20.03	20.08	20.16	20.25	20.30	20.37	20.44	20.52
40.0	20.40	20.41	20.43	20.48	20.55	20.66	20.70	20.79	20.86	20.95
45.0		21.01	21.02	21.06	21.13	21.23	21.28	21.37	21.45	21.55
50.0			21.86	21.88	21.94	22.04	22.09	22.18	22.27	22.36
55.0			23.02	23.02	23.06	23.15	23.20	23.28	23.37	23.47
60.0				24.51	24.54	24.61	24.65	24.73	24.82	24.92
65.0					26.43	26.48	26.52	26.60	26.67	26.77
70.0					28.81	28.84	28.87	28.93	29.00	29.09
75.0						31.73	31.74	31.79	31.85	31.93

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
10.0	74.50	92.70	114.00	138.50						
15.0	73.70	92.20	114.00	138.50						
20.0	72.70	91.70	113.50	138.50	167.00					
25.0	71.50	90.80	113.00	138.50	167.00	199.50	213.00			
30.0	70.00	89.70	112.00	138.00	166.50	199.50	213.00	236.00	256.00	
35.0	68.00	88.20	111.00	137.00	166.00	199.00	213.00	236.00	256.00	277.00
40.0	65.50	86.20	109.50	135.50	165.00	198.00	212.00	235.00	255.00	276.00
45.0		83.50	107.00	133.50	163.50	196.50	211.00	234.00	254.00	275.00
50.0			104.00	131.00	161.00	194.50	209.00	232.00	252.00	274.00
55.0			100.00	127.50	158.00	192.00	206.00	230.00	250.00	271.00
60.0				123.00	153.50	188.00	203.00	226.00	247.00	268.00
65.0					148.00	183.00	198.00	221.00	242.00	264.00
70.0					141.00	176.50	191.50	215.00	237.00	259.00
75.0						168.00	183.50	208.00	229.00	252.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	43.3
Length/Width, mm	264/285
Height, mm	552
Net Weight, kg	66.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
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 (8.5)
Sound Pressure @ 1m, dBA	71
Sound Power, dBA	82
PED Category	II
Max. Low Side Internal Free Volume, l	12.9
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.4
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High 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	33.3
Locked Rotor Current, A	174
Winding Resistance, ohm	0.83
Default Enclosure Class	IP 21 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Internal Thermistor
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	66 W External
Enclosure Class	IP66 With Molded Plug
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Rotalock valves	suction and discharge

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
TWE	500 V / 3~ / 50 Hz	500		Y	0.80
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