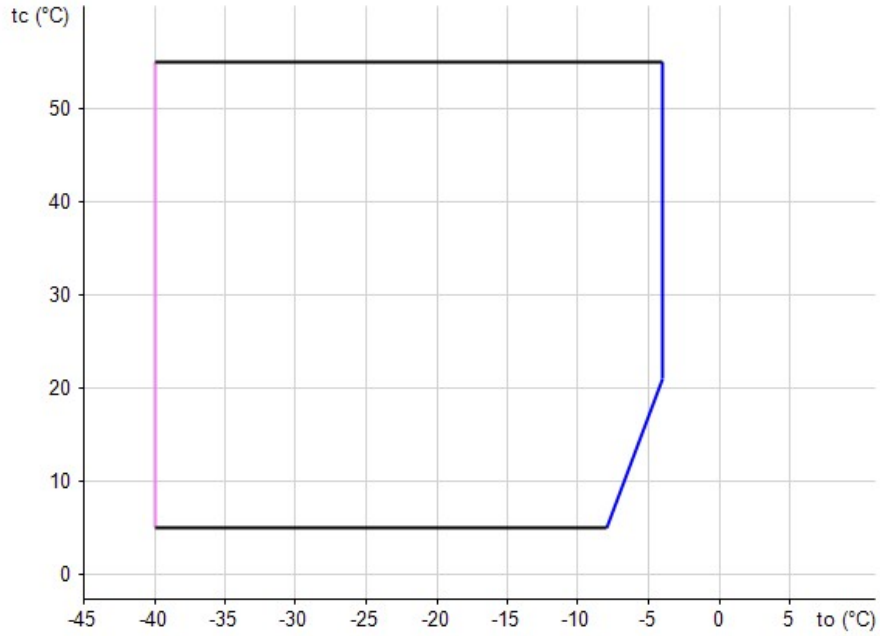

Minimum Evaporating Temp. With:

20 °C Suction Gas Return Liquid injection

Maximum Evaporating Temperature

Suction Return Temperature 18.3°C Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond	Cooling Capacity, kW							
°C	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	9.65	12.25	15.45	19.30	24.00	29.40	35.80	
10.0	9.33	11.85	15.00	18.80	23.30	28.60	34.80	
15.0	8.99	11.50	14.55	18.20	22.60	27.70	33.70	
20.0	8.64	11.05	14.00	17.55	21.80	26.70	32.50	39.10
25.0	8.26	10.60	13.45	16.90	20.90	25.70	31.20	37.60
30.0	7.86	10.15	12.85	16.15	20.00	24.60	29.90	36.00
35.0	7.45	9.63	12.25	15.35	19.05	23.40	28.40	34.30
40.0	7.02	9.09	11.60	14.55	18.05	22.10	26.90	32.50
45.0	6.58	8.54	10.85	13.65	16.95	20.80	25.30	30.60
50.0	6.12	7.95	10.15	12.75	15.80	19.45	23.70	28.60
55.0	5.65	7.35	9.37	11.75	14.60	18.00	21.90	26.60

Cond	Power, kW							
°C	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	4.02	4.11	4.29	4.52	4.80	5.09	5.39	
10.0	4.27	4.36	4.54	4.79	5.09	5.42	5.77	
15.0	4.59	4.67	4.85	5.11	5.43	5.80	6.18	
20.0	4.98	5.05	5.23	5.50	5.84	6.23	6.65	7.09
25.0	5.48	5.53	5.70	5.97	6.32	6.74	7.20	7.68
30.0	6.08	6.11	6.27	6.54	6.90	7.33	7.82	8.34
35.0	6.81	6.81	6.95	7.22	7.59	8.04	8.55	9.11
40.0	7.68	7.65	7.78	8.03	8.40	8.86	9.40	9.98
45.0	8.71	8.65	8.75	8.99	9.35	9.82	10.35	11.00
50.0	9.92	9.81	9.88	10.10	10.45	10.95	11.50	12.15
55.0	11.30	11.15	11.20	11.40	11.75	12.20	12.80	13.45

Cond	Current at 400 V, A							
°C	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	8.95	9.32	9.75	10.22	10.71	11.20	11.67	
10.0	9.74	10.02	10.38	10.81	11.27	11.75	12.23	
15.0	10.46	10.67	10.97	11.35	11.79	12.27	12.77	
20.0	11.17	11.30	11.55	11.90	12.33	12.81	13.34	13.88
25.0	11.90	11.96	12.17	12.49	12.91	13.41	13.96	14.55
30.0	12.69	12.70	12.86	13.17	13.58	14.10	14.69	15.34
35.0	13.59	13.55	13.68	13.97	14.40	14.94	15.58	16.29
40.0	14.64	14.56	14.66	14.95	15.39	15.96	16.65	17.44
45.0	15.89	15.77	15.86	16.14	16.60	17.21	17.96	18.82
50.0	17.38	17.22	17.30	17.59	18.07	18.73	19.55	20.49
55.0	19.14	18.96	19.03	19.34	19.85	20.57	21.45	22.49

Cond	Suction Mass Flow, g/s							
°C	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
5.0	43.00	54.60	69.10	86.80	108.00	133.50	163.00	
10.0	43.00	54.80	69.40	87.30	108.50	134.00	164.00	
15.0	42.90	54.90	69.60	87.60	109.00	134.50	164.50	
20.0	42.70	54.80	69.70	87.70	109.00	134.50	164.50	199.50
25.0	42.40	54.70	69.60	87.60	109.00	134.50	164.50	199.50
30.0	42.10	54.40	69.30	87.30	109.00	134.00	164.00	199.00
35.0	41.70	54.00	68.90	86.80	108.00	133.50	163.50	198.50
40.0	41.20	53.50	68.30	86.10	107.50	132.50	162.50	197.50
45.0	40.60	52.80	67.60	85.20	106.50	131.50	161.00	196.50
50.0	39.90	52.10	66.60	84.10	105.00	130.00	159.50	194.50
55.0	39.20	51.20	65.50	82.70	103.50	128.00	157.50	192.50

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	42.4
Length/Width, mm	280/280
Height, mm	552
Net Weight, kg	66.2
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Oil Quantity, l	3.37
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 (LT), dBA	72
Sound Power (LT), dBA	83
Sound Conditions (LT, Temperatures: Evap./Cond./Suction at freq./speed)	-35 / 40 / 20 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	13.3
High Side PS gauge, bar	32
Low Side PS gauge, bar	22.6
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	30
Locked Rotor Current, A	139
Winding Resistance, ohm	1.09
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	66 W External
Liquid Injection	DTC Valve
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell
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
TFD	460 V / 3~ / 60 Hz	460		Y	1.04