



Minimum Evaporating Temp. With:

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

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	12.10	15.25	19.00	23.60	29.00	35.50
5.0	12.10	15.25	19.00	23.60	29.00	35.40
10.0	12.05	15.20	18.95	23.40	28.80	35.10
15.0	12.00	15.15	18.85	23.30	28.50	34.60
20.0	11.90	15.05	18.70	23.00	28.10	34.10
25.0	11.80	14.90	18.50	22.70	27.70	33.50
30.0	11.60	14.70	18.25	22.40	27.20	32.80
35.0	11.35	14.40	17.90	21.90	26.60	32.00
40.0	11.05	14.10	17.45	21.40	25.90	31.10
45.0		13.65	16.95	20.70	25.10	30.10
50.0						

Cond °C	Power, kW					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	5.33	5.72	6.20	6.77	7.46	8.27
5.0	5.38	5.77	6.24	6.82	7.50	8.31
10.0	5.84	6.22	6.68	7.24	7.90	8.69
15.0	6.34	6.72	7.17	7.72	8.37	9.14
20.0	6.89	7.27	7.73	8.28	8.93	9.69
25.0	7.51	7.91	8.39	8.94	9.60	10.35
30.0	8.22	8.65	9.14	9.72	10.40	11.15
35.0	9.04	9.50	10.05	10.65	11.35	12.10
40.0	9.99	10.50	11.05	11.70	12.45	13.25
45.0		11.65	12.25	12.95	13.70	14.55
50.0						

Cond °C	Current at 400 V, A					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	10.83	11.15	11.57	12.11	12.79	13.63
5.0	10.87	11.19	11.61	12.15	12.83	13.67
10.0	11.26	11.59	12.02	12.56	13.24	14.07
15.0	11.70	12.05	12.49	13.05	13.73	14.56
20.0	12.22	12.59	13.06	13.63	14.33	15.17
25.0	12.83	13.25	13.75	14.35	15.07	15.93
30.0	13.57	14.03	14.57	15.21	15.97	16.85
35.0	14.45	14.97	15.56	16.25	17.04	17.97
40.0	15.51	16.09	16.74	17.48	18.33	19.30
45.0		17.41	18.13	18.94	19.84	20.87
50.0						

Cond °C	Suction Mass Flow, g/s					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	46.90	61.10	78.50	99.60	125.00	155.00
5.0	46.90	61.10	78.50	99.60	125.00	155.00
10.0	46.90	61.20	78.60	99.60	124.50	154.50
15.0	46.90	61.20	78.60	99.50	124.50	154.00
20.0	46.80	61.20	78.50	99.30	124.00	153.00
25.0	46.70	61.10	78.40	99.00	123.50	152.50
30.0	46.40	60.90	78.10	98.60	123.00	151.50
35.0	45.90	60.50	77.70	98.10	122.00	150.50
40.0	45.30	59.90	77.10	97.40	121.50	149.50
45.0		59.20	76.30	96.50	120.00	148.00
50.0						

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /h	48.3
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	77
Sound Power (LT), dBA	88
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
Low Side TS Max., °C	50
Low Side TS Min., °C	-35
Refrigerant's GWP	1397
Refrigerant's classification	A1

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

Maximum Operating Current, A	31
Locked Rotor Current, A	168
Winding Resistance, ohm	0.78
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard

ACCESSORIES OPTIONAL

Crankcase Heater	93 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
TFC	200-240 V / 3~ / 50 Hz	200		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04
TFC	208-230 V / 3~ / 60 Hz	220		Y	2.18