



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	9.96	12.90	16.25	20.10	24.50	29.60
5.0	9.96	12.90	16.25	20.10	24.50	29.60
10.0	9.91	12.80	16.10	19.95	24.30	29.30
15.0	9.85	12.70	16.00	19.75	24.10	29.00
20.0	9.77	12.60	15.85	19.55	23.80	28.60
25.0	9.67	12.45	15.65	19.30	23.40	28.20
30.0	9.53	12.30	15.40	18.95	23.10	27.70
35.0	9.35	12.05	15.10	18.60	22.60	27.20
40.0	9.11	11.75	14.75	18.15	22.10	26.60
45.0		11.40	14.30	17.65	21.50	25.80
50.0						

Cond °C	Power, kW					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	4.37	4.66	5.04	5.52	6.08	6.72
5.0	4.41	4.69	5.08	5.55	6.11	6.75
10.0	4.74	5.04	5.43	5.90	6.45	7.08
15.0	5.11	5.43	5.83	6.31	6.86	7.47
20.0	5.55	5.89	6.30	6.79	7.34	7.95
25.0	6.06	6.42	6.85	7.35	7.90	8.51
30.0	6.66	7.04	7.50	8.01	8.57	9.18
35.0	7.34	7.76	8.24	8.77	9.34	9.96
40.0	8.13	8.59	9.10	9.65	10.25	10.85
45.0		9.53	10.10	10.65	11.25	11.90
50.0						

Cond °C	Current at 400 V, A					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	17.34	17.31	17.41	17.61	17.87	18.19
5.0	17.37	17.35	17.45	17.65	17.92	18.23
10.0	17.60	17.62	17.76	18.00	18.30	18.65
15.0	17.82	17.89	18.07	18.35	18.70	19.09
20.0	18.07	18.18	18.42	18.75	19.14	19.58
25.0	18.36	18.53	18.82	19.21	19.65	20.14
30.0	18.74	18.97	19.32	19.76	20.26	20.80
35.0	19.22	19.52	19.94	20.44	21.00	21.60
40.0	19.84	20.22	20.71	21.28	21.90	22.56
45.0		21.09	21.66	22.30	23.00	23.72
50.0						

Cond °C	Suction Mass Flow, g/s					
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0
4.0	38.20	50.20	64.50	81.60	102.50	127.50
5.0	38.20	50.30	64.50	81.70	102.50	127.50
10.0	38.30	50.40	64.80	82.10	103.00	128.00
15.0	38.20	50.50	65.00	82.30	103.00	128.00
20.0	38.20	50.50	64.90	82.30	103.00	128.00
25.0	38.10	50.40	64.80	82.10	103.00	128.00
30.0	37.90	50.20	64.50	81.70	102.50	127.50
35.0	37.80	49.90	64.10	81.20	101.50	126.50
40.0	37.70	49.60	63.60	80.50	101.00	125.50
45.0		49.20	63.00	79.60	99.70	124.00
50.0						

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m ³ /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
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