



Minimum Evaporating Temp. With:

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

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	13.80	17.00	20.80						
5.0	13.75	16.90	20.80						
10.0	13.25	16.35	20.10	24.60					
15.0	12.70	15.80	19.40	23.70	28.80				
20.0	12.10	15.15	18.70	22.80	27.70	33.40			
25.0	11.40	14.45	17.90	21.90	26.60	32.00	38.40		
30.0		13.65	17.05	21.00	25.40	30.60	36.70	39.30	43.60
35.0		12.75	16.15	19.90	24.20	29.20	34.90	37.50	41.60
40.0			15.10	18.80	22.90	27.70	33.20	35.60	39.40
45.0			13.90	17.55	21.60	26.10	31.30	33.60	37.30
50.0				16.15	20.10	24.40	29.40	31.60	35.10
55.0					18.45	22.60	27.40	29.40	32.70
60.0					16.65	20.70	25.20	27.20	30.30

Cond °C	Power, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	2.63	2.66	2.74						
5.0	2.67	2.71	2.78						
10.0	3.10	3.12	3.18	3.27					
15.0	3.58	3.59	3.63	3.71	3.83				
20.0	4.11	4.11	4.15	4.21	4.31	4.46			
25.0	4.70	4.70	4.73	4.78	4.86	5.00	5.18		
30.0		5.35	5.37	5.42	5.49	5.61	5.78	5.86	6.00
35.0		6.07	6.09	6.13	6.20	6.31	6.46	6.53	6.66
40.0			6.89	6.93	6.99	7.09	7.23	7.30	7.42
45.0			7.76	7.81	7.87	7.96	8.09	8.16	8.27
50.0				8.77	8.84	8.93	9.06	9.12	9.22
55.0					9.89	9.99	10.10	10.20	10.30
60.0					11.05	11.15	11.30	11.35	11.45

Cond °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	9.77	9.79	9.84						
5.0	9.79	9.82	9.87						
10.0	10.07	10.08	10.12	10.19					
15.0	10.41	10.42	10.45	10.51	10.61				
20.0	10.83	10.84	10.86	10.92	11.00	11.14			
25.0	11.35	11.36	11.38	11.43	11.51	11.64	11.82		
30.0		11.99	12.01	12.06	12.14	12.26	12.43	12.52	12.67
35.0		12.75	12.78	12.82	12.90	13.02	13.18	13.27	13.41
40.0			13.68	13.73	13.81	13.93	14.09	14.17	14.32
45.0			14.74	14.80	14.88	15.00	15.17	15.25	15.39
50.0				16.04	16.13	16.26	16.42	16.51	16.65
55.0					17.57	17.70	17.88	17.96	18.10
60.0					19.21	19.35	19.54	19.62	19.77

Cond °C	Suction Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
4.0	61.70	76.30	94.10						
5.0	61.70	76.30	94.10						
10.0	61.50	76.30	94.10	115.50					
15.0	61.00	76.20	94.20	115.50	141.50				
20.0	60.30	75.90	94.10	115.50	141.50	172.00			
25.0	59.10	75.20	93.80	115.50	141.00	171.50	208.00		
30.0		74.20	93.20	115.00	141.00	171.50	207.00	224.00	250.00
35.0		72.40	92.10	114.50	140.50	171.00	207.00	223.00	250.00
40.0			90.40	113.50	139.50	170.50	206.00	223.00	249.00
45.0			87.80	111.50	138.50	169.50	206.00	222.00	249.00
50.0				109.00	136.50	168.00	205.00	222.00	249.00
55.0					133.50	166.50	204.00	221.00	248.00
60.0					130.00	163.50	202.00	220.00	248.00

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m <sup>3</sup> /h	28.8
Length/Width, mm	358/296
Height, mm	534
Net Weight, kg	61.2
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 (MT), dBA	66
Sound Power (MT), dBA	77
Sound Conditions (MT, Temperatures: Evap./Cond./Suction at freq./speed)	-10 / 45 / 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	24
Locked Rotor Current, A	118
Winding Resistance, ohm	1.24/1.24/1.24 (T1-T2/T2-T3/T3-T1)
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Solenoid valve	Standard
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### **ACCESSORIES OPTIONAL**

Crankcase Heater	90 W External
Discharge Temperature Protection	Discharge line thermostat
Mounting Grommets	Standard
Mounting Grommets	Hard Mounts for Paralleling
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Valve Coil	220V
Valve Coil	24V AC
Digital Control Kit	EC2-552
Digital Control Kit	EC3-652
Digital Driver	EC3-D13

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04