



Minimum Evaporating Temp. With:

- █ 20 °C Suction Gas Return Liquid injection
- █ Maximum Evaporating Temperature    █ Maximum Pressure Limit

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Ambient °C	Cooling Capacity, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
27.0	1.75	2.23	2.79	3.44	4.20	5.07	6.06	7.17
32.0	1.66	2.13	2.66	3.28	4.00	4.82	5.76	6.81
38.0	1.55	1.99	2.50	3.08	3.74	4.51	5.38	6.36
43.0	1.44	1.86	2.35	2.89	3.52	4.24	5.06	
46.0	1.36	1.78	2.25	2.78	3.38			
49.0	1.29	1.70						

Ambient °C	Total Power Input, kW							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
27.0	1.75	1.82	1.91	2.02	2.16	2.32	2.51	2.73
32.0	1.96	2.02	2.11	2.22	2.35	2.50	2.69	2.90
38.0	2.25	2.32	2.40	2.50	2.62	2.77	2.95	3.16
43.0	2.55	2.61	2.69	2.78	2.90	3.05	3.22	
46.0	2.75	2.81	2.88	2.98	3.09			
49.0	2.97	3.02						

Ambient °C	Current at 400 V, A							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
27.0	3.89	3.95	4.03	4.13	4.26	4.43	4.63	4.87
32.0	4.07	4.14	4.22	4.33	4.46	4.62	4.83	5.08
38.0	4.37	4.43	4.52	4.62	4.76	4.93	5.14	5.39
43.0	4.68	4.75	4.83	4.94	5.08	5.25	5.46	
46.0	4.90	4.97	5.06	5.16	5.30			
49.0	5.15	5.22						

Ambient °C	Mass Flow, g/s							
	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
27.0	9.49	12.20	15.40	19.25	23.90	29.40	35.90	43.60
32.0	9.45	12.20	15.40	19.25	23.90	29.30	35.80	43.60
38.0	9.34	12.10	15.40	19.20	23.80	29.30	35.80	43.50
43.0	9.17	12.00	15.30	19.15	23.70	29.20	35.70	
46.0	9.04	11.95	15.25	19.10	23.70			
49.0	8.86	11.80						

### CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	M8E/R10R-42APS
Number of Fans	1
Total Fan Power Input, W	180
Depth/Width, mm	730/735
Height, mm	708
Base mounting (hole dia), mm	700 x 390 (14)
Gross Weight, kg	105
Net Weight, kg	88
Receiver Capacity, l	7.9
Liquid Line, inch	1/2
Air Flow, m <sup>3</sup> /s	0.94
Suction Type	Rotalock Valve
Suction Diameter, inch	7/8

**CONDENSING UNIT ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Compressor Maximum Operating Current, A	7.1
Compressor Locked Rotor Current, A	46

**ACCESSORIES INCLUDED**

Crankcase Heater	70 W External
Liquid Injection	DTC Valve
Electric box (W x H x D), mm	140 x 205 x 60
HP/LP Switch	ALCO PS2-W7A

**ACCESSORIES OPTIONAL**

Housing	M
Fan speed control	ALCO FSE-02S (MP)

**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