



Minimum Evaporating Temp. With:	
<span style="color: magenta;">—</span> 25 °C Suction Gas Return	<span style="color: yellow;">—</span> 10 K Suction Superheat
<span style="color: red;">—</span> 25 °C Suction Gas Return with Voltage limit ± 0 %	<span style="color: brown;">—</span> 20 °C Suction Gas Return
<span style="color: blue;">—</span> Maximum Evaporating Temperature	<span style="color: black;">—</span> Maximum Pressure Limit

Suction Return Temperature 18.3°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Ambient °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
27.0	4.43	5.54	6.84	8.35	10.05	12.05	12.90	14.20	15.40	
32.0	4.17	5.23	6.47	7.91	9.56	11.40	12.20	13.50	14.60	
38.0		4.85	6.02	7.36	8.91	10.65	11.40	12.60	13.65	
43.0			5.62	6.89	8.35	9.99	10.70	11.85	12.85	
46.0			5.38	6.60	8.00	9.59	10.25	11.35	12.30	
49.0				6.31	7.65	9.17	9.83	10.90	11.80	

50 Hz

MC-R7-ZB45KE-TFD

R134a

Ambient °C	Total Power Input, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
27.0	2.59	2.66	2.73	2.82	2.92	3.02	3.07	3.15	3.21	
32.0	2.83	2.91	2.99	3.08	3.18	3.30	3.35	3.43	3.50	
38.0		3.24	3.33	3.43	3.54	3.67	3.72	3.81	3.89	
43.0			3.66	3.77	3.89	4.02	4.08	4.17	4.25	
46.0			3.87	3.99	4.11	4.25	4.31	4.40	4.49	
49.0				4.22	4.35	4.50	4.56	4.65	4.74	

Ambient °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
27.0	6.36	6.41	6.46	6.53	6.63	6.75	6.81	6.91	7.00	
32.0	6.58	6.64	6.72	6.80	6.91	7.05	7.11	7.22	7.32	
38.0		6.99	7.08	7.19	7.32	7.47	7.54	7.66	7.77	
43.0			7.46	7.58	7.72	7.89	7.97	8.09	8.21	
46.0			7.71	7.85	8.00	8.18	8.26	8.39	8.51	
49.0				8.14	8.30	8.49	8.57	8.71	8.83	

Ambient °C	Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
27.0	25.70	32.50	40.70	50.50	62.20	76.10	82.30	92.50	102.00	
32.0	25.20	32.00	40.20	50.10	61.80	75.60	81.90	92.10	101.50	
38.0		31.40	39.60	49.40	61.00	74.90	81.10	91.30	100.50	
43.0			39.00	48.70	60.30	74.10	80.40	90.60	100.00	
46.0			38.50	48.20	59.80	73.60	79.80	90.00	99.50	
49.0				47.70	59.20	73.00	79.20	89.50	98.90	

### **CONDENSING UNIT MECHANICAL AND PHYSICAL DATA**

Condenser/Fan Type	R7/271
Number of Fans	2
Total Fan Power Input, W	470
Depth/Width, mm	680/1130
Height, mm	633
Base mounting (hole dia), mm	1095 x 350 (14)
Gross Weight, kg	141
Net Weight, kg	101
Receiver Capacity, l	7.9
Liquid Line, inch	1/2
Air Flow, m <sup>3</sup> /s	1.97
Suction Type	Rotalock Valve
Suction Diameter, inch	7/8
Sound Pressure @ 10m, dBA	50

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

Condenser Fan Current for 1 fan (single phase)	1.15 / 1.4
Compressor Maximum Operating Current, A	13.1
Compressor Locked Rotor Current, A	74

### **ACCESSORIES INCLUDED**

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

### **ACCESSORIES OPTIONAL**

Housing	RCR
Fan speed control	ALCO FSX41S for R134a
Fan speed control	ALCO FSX42S

### **MOTOR OPTIONS**

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