



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

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	2.16	2.72	3.39	4.16	5.04	6.03	6.46	7.14	7.73	
32.0	2.05	2.58	3.21	3.95	4.79	5.73	6.14	6.78	7.34	
38.0		2.41	3.00	3.69	4.48	5.36	5.74	6.34	6.86	
43.0			2.82	3.47	4.21	5.04	5.40	5.96	6.45	
46.0			2.71	3.33	4.04	4.84	5.18	5.72	6.20	
49.0				3.19	3.87	4.64	4.97	5.49	5.94	

50 Hz

MC-K9-ZB21KE-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	1.32	1.35	1.38	1.42	1.48	1.53	1.56	1.59	1.62	
32.0	1.44	1.48	1.52	1.56	1.61	1.66	1.69	1.73	1.77	
38.0		1.64	1.68	1.74	1.79	1.85	1.88	1.92	1.96	
43.0			1.84	1.90	1.96	2.02	2.05	2.10	2.14	
46.0			1.95	2.01	2.07	2.14	2.17	2.21	2.25	
49.0				2.12	2.19	2.26	2.29	2.33	2.38	

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	2.96	2.98	3.00	3.04	3.09	3.15	3.18	3.23	3.27	
32.0	3.08	3.10	3.14	3.19	3.24	3.31	3.34	3.39	3.44	
38.0		3.29	3.34	3.40	3.46	3.54	3.57	3.63	3.68	
43.0			3.53	3.60	3.68	3.76	3.80	3.86	3.91	
46.0			3.67	3.74	3.82	3.91	3.95	4.01	4.07	
49.0				3.89	3.98	4.08	4.12	4.18	4.24	

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	12.50	15.90	20.10	25.10	31.00	38.00	41.10	46.20	50.80	
32.0	12.35	15.75	19.90	24.90	30.80	37.80	40.90	46.00	50.60	
38.0		15.55	19.70	24.60	30.50	37.50	40.60	45.70	50.30	
43.0			19.45	24.40	30.30	37.20	40.30	45.30	49.90	
46.0			19.35	24.20	30.10	37.00	40.10	45.10	49.70	
49.0				24.10	29.90	36.70	39.80	44.80	49.40	

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

Condenser/Fan Type	K9/121
Number of Fans	2
Total Fan Power Input, W	220
Depth/Width, mm	640/950
Height, mm	454
Base mounting (hole dia), mm	915 x 380 (14)
Gross Weight, kg	88
Net Weight, kg	67.5
Receiver Capacity, l	7.9
Liquid Line, inch	1/2
Air Flow, m <sup>3</sup> /s	0.89
Suction Type	Rotalock Valve
Suction Diameter, inch	7/8
Sound Pressure @ 10m, dBA	48

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

Condenser Fan Current for 1 fan (single phase)	0.45 / 0.65
Compressor Maximum Operating Current, A	7.2
Compressor Locked Rotor Current, A	40

### **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	FK
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