



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 20 °C Suction Gas Return
- Maximum Evaporating Temperature
- 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	2.34	2.95	3.64	4.44	5.34	6.36	6.80	7.50	8.11	
32.0	2.18	2.76	3.41	4.16	5.01	5.97	6.39	7.04	7.62	
38.0		2.52	3.13	3.81	4.60	5.48	5.86	6.47	7.01	
43.0			2.89	3.52	4.24	5.06	5.41	5.98	6.48	
46.0			2.74	3.34	4.02	4.80	5.14	5.68	6.16	
49.0				3.16	3.80	4.54	4.86	5.37	5.83	

Additional restrictions, please see application guidelines

50 Hz

MC-K9-ZB21KE-TFD

R513A

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	1.38	1.40	1.42	1.45	1.48	1.54	1.56	1.60	1.64	
32.0	1.52	1.54	1.56	1.59	1.62	1.67	1.70	1.73	1.76	
38.0		1.73	1.76	1.78	1.82	1.86	1.88	1.92	1.95	
43.0			1.94	1.97	2.00	2.05	2.06	2.10	2.13	
46.0			2.06	2.09	2.13	2.17	2.18	2.22	2.25	
49.0				2.22	2.26	2.30	2.31	2.34	2.37	

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	3.34	3.36	3.39	3.42	3.48	3.54	3.57	3.63	3.67	
32.0	3.52	3.54	3.57	3.60	3.65	3.71	3.73	3.78	3.83	
38.0		3.78	3.81	3.84	3.88	3.93	3.96	4.00	4.05	
43.0			4.03	4.06	4.11	4.16	4.18	4.23	4.27	
46.0			4.18	4.22	4.26	4.31	4.34	4.38	4.42	
49.0				4.39	4.43	4.48	4.51	4.55	4.59	

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	15.45	19.70	24.70	30.70	37.80	46.20	50.00	56.20	61.90	
32.0	15.10	19.35	24.30	30.30	37.30	45.70	49.50	55.60	61.30	
38.0		18.90	23.80	29.60	36.50	44.80	48.60	54.70	60.40	
43.0			23.30	29.00	35.80	43.90	47.70	53.80	59.40	
46.0			23.00	28.60	35.30	43.40	47.10	53.10	58.80	
49.0				28.20	34.80	42.80	46.40	52.40	58.10	

Additional restrictions, please see application guidelines

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 ³ /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

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

Additional restrictions, please see application guidelines