



Minimum Evaporating Temp. With:

- 20 °C Suction Gas Return ASERCOM certified
- 10 K Suction Superheat
- Maximum Evaporating Temperature
- Maximum Pressure Limit

Suction Return Temperature 20.0°C

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Ambient °C	Cooling Capacity, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
27.0		6.83	8.45	10.20	12.05	14.10	16.35	17.30	18.85
32.0		6.28	7.85	9.50	11.25	13.20	15.35	16.25	17.70
38.0			7.12	8.68	10.35	12.15	14.15		
43.0				8.02	9.59				
46.0									
49.0									

50 Hz

MC-M9-ZB45KE-TFD

R449A Dew Point

Ambient °C	Total Power Input, kW								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
27.0		4.10	4.28	4.49	4.72	4.99	5.32	5.47	5.72
32.0		4.58	4.78	4.99	5.23	5.51	5.85	6.01	6.26
38.0			5.44	5.66	5.91	6.21	6.56		
43.0				6.29	6.55				
46.0									
49.0									

Ambient °C	Current at 400 V, A								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
27.0		8.18	8.40	8.61	8.85	9.18	9.66	9.90	10.32
32.0		8.80	9.03	9.23	9.47	9.79	10.24	10.47	10.88
38.0			9.92	10.11	10.32	10.60	11.01		
43.0				10.94	11.11				
46.0									
49.0									

Ambient °C	Mass Flow, g/s								
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0
27.0		39.60	50.20	62.20	76.10	92.50	112.50	121.50	136.50
32.0		38.20	49.00	61.10	75.10	91.60	111.50	121.00	136.50
38.0			47.60	59.90	74.00	90.70	111.00		
43.0				59.10	73.40				
46.0									
49.0									

CONDENSING UNIT MECHANICAL AND PHYSICAL DATA

Condenser/Fan Type	M9/611
Number of Fans	1
Total Fan Power Input, W	400
Depth/Width, mm	730/735
Height, mm	708
Base mounting (hole dia), mm	700 x 390 (14)
Gross Weight, kg	113
Net Weight, kg	95.5
Receiver Capacity, l	7.9
Liquid Line, inch	1/2
Air Flow, m ³ /s	1.24
High Side PS gauge, bar	31
Low Side PS gauge, bar	21
Suction Type	Rotalock Valve
Suction Diameter, inch	7/8
Sound Pressure @ 10m, dBA	49

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

Condenser Fan Current for 1 fan (single phase)	1.85 / 2.25
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	M
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