

**COOLING ONLY/LIMITED  
 RANGE HEAT PUMP**

Nominal Capacities:  
 9,000, 12,000, and 15,000 Btuh

**DESCRIPTION**

EMI offers the finest high capacity multiple zone outdoor units in the ductless split market, the MC2/MH2 High Capacity Condensing Unit. The MC2/MH2 allows the installation of two circuits from a single outside location when space or aesthetic requirements limit the use of locations. Valves are internal for tamper protection and each zone is independent so no mixing of refrigerant is required.

When specifying heat pump(s), it is recommended that the matching evaporator(s) be equipped with electric heat. The MH2 will operate down to 35°F outdoor temperature, at which point it will initiate change over to electric heat and shut down the condenser. All 9,000, 12,000, and 15,000 Btuh units are equipped with the Duratec Performance package which include a large capacity suction accumulator with surge baffles and enhanced oil management, a factory installed solid core filter drier and loss of refrigerant charge protection.

**NOTE: The crankcase heater is installed when the low ambient control option is selected, and with 09-15K heat pumps.**

*All EMI products are subject to ongoing development programs so design and specifications may change without notice.*

**CONDENSER STANDARD FEATURES**

▲▼ **Compressors** - Hermetically sealed high efficiency rotary compressors. Motors are PSC type with inherent overload protection.

▲▼ **Cabinet Construction** - Fabricated of G60 galvanized steel and finished with corrosion inhibiting polyester powder-coated paint (off white).

▲▼ **Condenser Fan/Motor** - The condenser fan is a large diameter, high efficiency propeller type, which is directly connected to the totally enclosed PSC motor. The MC/MH units are draw-through airflow design and the PSC motor is fitted with internal overload protection.

▲▼ **Condenser Coil** - Condenser coils are seamless copper tubing arranged in staggered configuration with enhanced aluminum fins tested to 460psig. The tubes are mechanically expanded for secure bonding to the fin shoulder.

▲▼ **Refrigeration Circuits** - The MC/MH2 is delivered with pre-charged refrigerant for the condenser coils and evaporators while charging of field installed piping is required. Unit refrigeration service valves are solid brass for sweat connection. Solid core filter driers are factory installed on all models.

▲▼ **Refrigerant Run Options** - The standard system will support refrigerant runs to the inside unit of 35' of lift, up to 100' of interconnect.

▲▼ **Reverse Cycle Operation (MH2)** - A four-way reversing valve, solenoid activated by 24V, is energized for cooling operation. A TXV with internal check valve provides proven operation through all temperature ranges when in the heat pump mode.

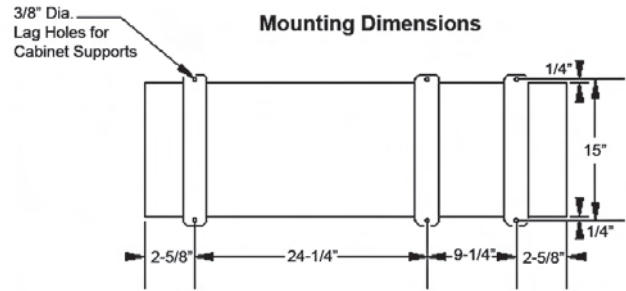
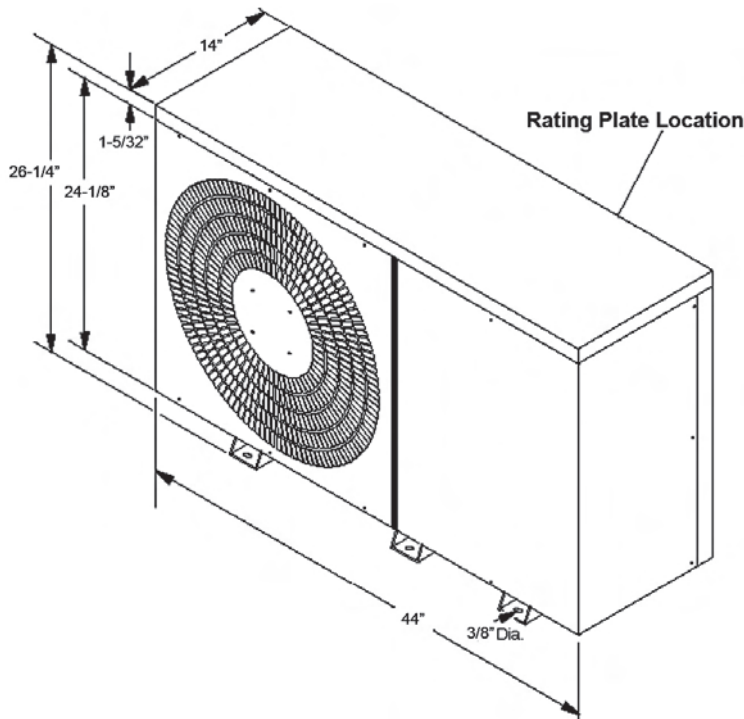
▲▼ **Controls and Components:**

- Compressor and fan motor contactor
- Capacitor
- Loss of charge switch
- Low Voltage terminals for evaporator interconnection
- Large capacity suction accumulators
- Factory installed solid core filter drier
- Heat pump circuits equipped with crankcase heater

**SYSTEM OPTIONS**

- Low ambient: Specify heat pump or cooling if the system will operate in cooling mode at outside temperatures below 60°F.
- Sea coast style coated coils
- 265V adder (9, 12 only)
- Field installed hard start assist (straight cool only)
- Anti short-cycle protection (field installed)

## MC2/MH2 DIMENSIONS AND SPECIFICATIONS



MC2/MH2 ELECTRICAL SPECIFICATIONS										
MODEL (1)	VOLTS/HZ/PHASE	FAN		COMPRESSOR 1		COMPRESSOR 2		TOTAL AMPS	MIN. CIR. AMPS (2)	HACR BRKR
		RLA	HP	RLA	LRA	RLA	LRA			
9900	208-230/60/1	1.0	0.125	4.1	20	4.1	20	9.2	10.3	15
2200	208-230/60/1	1.0	0.125	4.8	26.3	4.8	26.3	10.6	11.8	15
9200	208-230/60/1	1.0	0.125	3.8	20	4.8	26.3	9.6	10.8	15
5500	208-230/60/1	1.8	0.25	6.4	38	6.4	38	14.6	16.2	20

(1) Circuit Designators: 9 = 9,000 Btuh • 2 = 12,000 Btuh • 5 = 15,000 Btuh  
 ex. - Model 9200 consists of one 9,000 Btuh compressor and one 12,000 Btuh compressor  
 (2) Always refer to the rating plate for Minimum Circuit Ampacity on all multiple compressor units.

MC2/MH2 REFERENCE CIRCUIT RATINGS				
MODEL	COOLING		HEATING	
	Btuh	SEER	Btuh	C.O.P.
09	9,500	10.5	8,800	3.3
12	11,300	10.0	10,500	3.1
15	14,200	10.0	13,400	3.1

MC2/MH2 PIPING SPECIFICATIONS		
Model#	Line Sizes	
	Liquid	Suction
09, 12	1/4"	1/2"
15	1/4"	5/8"



*Comfort Where It Counts.*

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