

SPECIFICATIONS

Capacity ⁽¹⁾	90 ppd
Energy Factor ⁽¹⁾	2.2 L/kW-h
Airflow @ varying E.S.P. (external static pressure - dry coil)	
0.0" w.c.	265 CFM
0.2" w.c.	230 CFM
0.4" w.c.	200 CFM
Voltage, phase, frequency	120VAC, 1, 60 Hz
Current draw ⁽³⁾	8.0 Amps
Noise	60 dBA unducted
Dimensions: (cabinet only) ⁽²⁾	
Width: 12½"	
Height: 14½"	
Length: 27½"	
Weight	70 lbs
Inlet air operating conditions during	
-Dehumidification:	50°F-104°F, 40°F dew point min.
-Ventilation:	40°F-140°F, 0%-99%RH (non-condensing)

⁽¹⁾ Rated capacity and energy factor test done and current draw measured in accordance with AHAM DH-1 2008 at 80°F/60%RH inlet air at 0.0 ESP. ⁽²⁾ Height does not include adjustable feet. The width excludes the filter doors.

FEATURES

Controls ⁽³⁾	Built-in digital control with display
Control mounting option	Field interchangeable from top to front
Cabinet insulation	½" EPS
Air discharge orientation	Top or end
Backdraft damper at outlet	Included
Filter	Washable MERV 8
Refrigerant	R410A
Coil corrosion resistance	E-Coated coil
8' Power cord	Plug Type
Discharge air temperature rise	10°F-30°F
Drain connection ⁽⁴⁾	¾" MNPT Threaded
Warranty	5 Years

⁽³⁾ Built-in automatic control capable to be set up for dehumidification and ventilation or zoning.
⁽⁴⁾ Threaded barbed fitting included. HC90 includes 5' of clear drain tubing.



Model HC90

▶ **PRINCIPLE OF OPERATION**

The Moisture Medic HC90 Dehumidifier is designed to dehumidify the air coming into the unit by passing the incoming air over an evaporator coil to drop the air temperature below the dew point of the air. Moisture is removed from the air and drained out of the unit to a common floor or waste drain. The air is then reheated in the condenser coil and exits the unit.

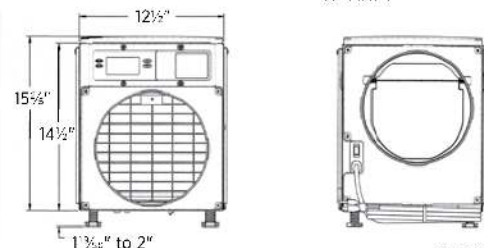
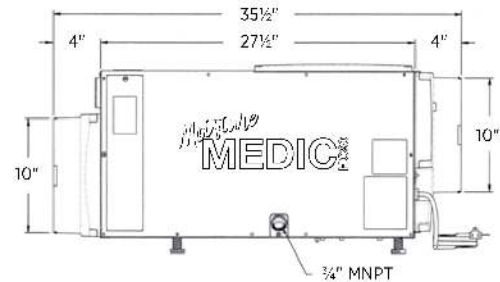
Dehumidification occurs until the set point is reached, then shuts off until periodic sampling determines a need for operation.

▶ **APPLICATION**

The Moisture Medic HC90 is perfect for a wide range of applications including whole-home dehumidification and control of moisture in basements and crawlspaces.

▶ **CIRCULATION**

The Model HC90 can also be programmed to circulate the air within a crawlspace. Circulating the air evens out relative humidity levels and temperature in the space, eliminating variations in the environment.



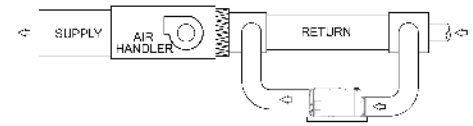
Installation Options For the Moisture Medic Model HC90 Dehumidifier

Shown in horizontal applications, can be installed in vertical applications as well.

APPLICATIONS

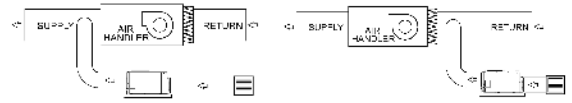
Main Return to Main Return - RECOMMENDED

- This application can be used when a supply duct is not available
- Air is **pulled** from the return duct, dehumidified, and returned to the return duct
- Assures that the dehumidified air is mixed with rest of the air in the duct before it re-enters the house
- This application is for whole-home dehumidification.



Dedicated Return to Main Supply or Dedicated Return to A/C Return

- This application can be used when a return or supply duct is not available
- Air is **pulled** through a dedicated return grille, dehumidified, and returned to the supply plenum or return
- This application is for whole-home dehumidification.



Inlet and Outlet ducted to dedicated grilles

- For homes without duct work
- Dries a specific area that has a moisture issue (basements, crawlspaces, sealed attics, etc.)
- Dehumidifier can be located in a closet, mechanical room or unfinished area and ducted into a finished room



Main Return to Main Supply

- Air is **pulled** from the return duct, dehumidified, and returned to the supply plenum
- This application is for whole-home dehumidification.



Freestanding (Model HC90)

- Air is **pulled** into the dehumidifier directly from the space, dehumidified, and returned back to the space
- Dries a specific area that has a moisture issue (basements, crawlspaces, sealed attics, etc.)
- It can be used for whole-home dehumidification.



Optional Wall-Mount Controls



Model 8620/8620W with IAQ Control

- Universal 2H/2C or 4H/2C HP
- Event-Based™ Air Purification
- Humidity or Ventilation
- Wi-Fi touch screen (8620W)



Model 76 Wall Mount Dehumidifier Control

- On/Off buttons
- Wall mounted living space control
- Displays RH and controls to an RH value
- Remote control for crawlspace applications and sealed attics



Model 8910/8910W with IAQ Control

- Universal 3H/3C or 4H/2C HP
- Event-Based™ Air Purification
- Humidity and Ventilation
- 2 Part - 3-Wire design
- Wi-Fi touch screen (8910W)



Model 8920W with IAQ Control

- Universal 3H/3C or 4H/2C HP
- Event-Based™ Air Purification
- Humidity and Ventilation
- 2 Part - 3-Wire design
- Full color Wi-Fi touch screen



MODEL 76 SPECIFICATIONS

Electrical	External	Remote
Input voltage and current	Voltage: 24VAC +/-20% Current: 25mA (nominal), 50mA (max.) at 24VAC	Voltage: 35VDC (supplied by dehumidifier control board)
Output	Dry contact, normally open	Communication (RS485)
Control	External	Remote
Control range	40% 80% RH	1 (less dry) - 7 (more dry) 65°F - 40°F dew point
Accuracy	+/-5% RH	See dehumidifier specifications
Differential	3% RH	
Low limit	40°F dew point	50°F dry bulb, 40°F dew point min.
High limit	99°F dry bulb	105°F dry bulb