

AprilAire®

Humidifier

SPECIFICATION SHEET

Model 801

Modulating Steam Humidifier

STEAM CAPACITY	
120 Volts/60 Hz Max Amperage (16 Amps) Min Amperage (11.5 Amps)	5.6 lbs./hr (16.0 gpd) 4.0 lbs./hr (11.5 gpd)
208 Volts/60 Hz Max Amperage (16 Amps) Min Amperage (11.5 Amps)	10.4 lbs./hr (30.0 gpd) 7.1 lbs./hr (20.5 gpd)
240 Volts/60 Hz Max Amperage (16 Amps) Min Amperage (11.5 Amps)	12.0 lbs./hr (34.6 gpd) 8.1 lbs./hr (23.3 gpd)

SPECIFICATIONS	
Unit dimensions	10 1/8" W x 20 7/8" H x 7 1/8" D
Weight – unit only/ operating weight	23 lbs 27 lbs.
Drain water temperature	Drain water not to exceed 140°F. Tempered with cold fill water
Modulating configuration (proportional)	Modulating 0–10 Vdc or 0–20mA Modulating 2–10 Vdc or 4–20mA
Installation accessories included	6 ft. of commercial grade steam hose, 10 ft. drain hose, clamps/hardware
Supply water conductivity	125 to 1250 µS/cm
Supply water pressure range	25 to 120 psi
Supply/Drain connection	Supply: 1/4" copper compression fitting Drain: 7/8" for flex hose
Warranty	5 Years



PRINCIPLE OF OPERATION

The AprilAire steam humidifier delivers humidity to a home's conditioned space through the use of the HVAC system ductwork. The humidifier operates utilizing electrode technology: current flowing between two electrodes in the disposable steam canister boils water to generate steam. Drain and fill valves in the humidifier work together to maintain the correct water level in the canister to satisfy the demand for humidity based on the electrical conductivity of the water.

*Capacity adjustment is accomplished by using a dip switch.

Water Hardness – 3 to 36 grain per gallon, water filtration typically not necessary. Canister replacement once per humidifier season under normal conditions. Canister life will depend on water quality and run time. Unit will automatically notify when canister must be replaced.



Designed &
Assembled in
the USA

utilizing U.S. and Global Components

FEATURES

- **High capacity** – One unit can provide between 11.5 and 34.6 gallons per day.
- **Modulating input signal** – The Model 801 accepts an input signal of modulating 0–10 Vdc or 0–20mA, and modulating 2–10 Vdc or 4–20mA.
- **Internal control board** – Manages the complete operation of the humidifier. Fills and drains to maintain proper amperage draw and water level and notifies when service is required.
- **Versatile mounting options** – Remote and duct-mounted options. Steam dispersion tube, steam hose and drain tube included in the box. Fan Pack option also available (see Model 866).
- **Dispersion and absorption** – Steam dispersion technology ensures proper absorption of steam into the air, preventing condensation in duct.
- **Display panel** – Provides power switch for on/off operation, illuminates LEDs to show fill, drain, steam operations and diagnostics.
- **Water level sensor** – Manages the water level in the steam canister to prevent over filling.
- **Back flow protection** – Air gap in the fill cap prevents pressure build up.
- **Automatic drain and fill cycle** – Unit flushes and fills periodically to maintain the proper conductivity.
- **Drain water tempering** – Unit uses cold inlet water to temper the canister water, reducing the drain water temperature below 140°F to protect PVC piping and condensation pumps.
- **End-of-Season drain** – After a 72-hour period with no call for humidity, the humidifier will drain the water from the canister. Unit will remain in stand-by until next call for humidification.
- **Operating time monitor** – Accumulates actual humidifier run time to activate periodic drain and fill cycles, end-of-season drain function and monitors the life of canister.
- **Easy to maintain** – Canister does not require cleaning or scrubbing—simply remove it and replace. Replace electrode wires every three years.

