



SPECIFICATION SHEET

STEAM HUMIDIFIER

MODEL 800

HIGH CAPACITY - One unit can provide between 11.5 and 34.6 gallons per day.

ELECTRODE TYPE HUMIDIFIER - Generates steam by energizing two electrodes that extend into the steam canister. Current flowing between the electrodes causes the water to boil creating steam.

ELECTRICAL DATA - Unit operates at 120, 208 or 240 VAC and at 11.5 or 16.0 Amps.

INTERNAL CONTROL BOARD - Manages the operation of the humidifier. Fills and drains to provide full capacity at either 11.5 or 16 Amps, and notifies when canister needs replacement.

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 (Model 865).

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 built 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 - No cleaning or scrubbing, simply remove canister and replace.

CONTROL - Model 62 Automatic Digital Humidifier Control with outdoor sensor included. Control features blower activation to provide humidity without a call for heating.



PRINCIPLE OF OPERATION

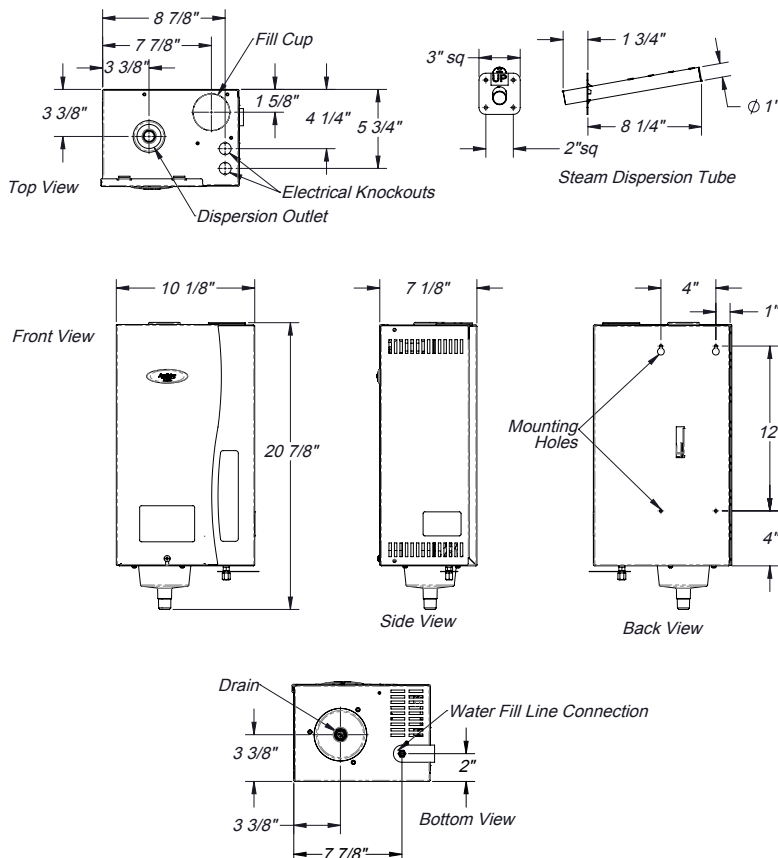
The Aprilaire Steam Humidifier delivers humidity in the form of steam to the conditioned space via the HVAC system duct. The humidifier generates steam by energizing two electrodes that extend into a disposable canister filled with water. Current flowing between the electrodes causes the water to boil, creating steam. Water is introduced to the humidifier through a fill valve to a fill cup located in the top of the cabinet. The fill cup serves as an overflow reservoir and provides an air gap between the humidifier and water source. The steam canister is filled from the bottom. The canister is seated in a drain cup assembly which includes a drain valve. The drain and fill valves work together to maintain water level in the canister to satisfy the demand of the modulating control based on the electrical conductivity of the water.

MODEL 800 STEAM HUMIDIFIER CAPACITY

STEAM CAPACITY		VOLTAGE		CURRENT DRAW	
Gallon/Day				Amps	Kw
11.5	120V			11.5	1.4
16.0				16.0	1.9
20.5	208V			11.5	2.4
30.0				16.0	3.3
23.3	240V			11.5	2.8
34.6				16.0	3.8

- Water Hardness – 3 to 36 grain per gallon, water filtration not necessary
- Water Conductivity – 125-1250 micro Siemens per centimeter (µS/cm)
- Supply water pressure must be between 25 psi and 120 psi
- Drain water flushed and tempered with cold fresh inlet water
- Electrical draw 11.5 amps or 16 amps
- Canister replacement (Model 80) 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.
- Operating Weight - up to 27 lbs.

MODEL 800 STEAM HUMIDIFIER DIMENSIONAL DRAWING



Model 62 Automatic Digital Humidifier Control



- Large backlit display
- Continuous 24/7 RH monitoring
- Automatic control with outdoor sensor
- Built-in blower activation
- Status lights

MODEL 60/62 SPECIFICATIONS

ELECTRICAL	
Input voltage and current	Voltage: 24VAC +/-20% Current: 80mA (nominal)
Output	Dry contact, normally open

CONTROL	
Control range	15% - 45% RH
Accuracy	+/-3% RH
Differential	3% RH
Outdoor temperature limit	60°F

