

New Technology from the Technology Leader

FINALLY, A HUMIDIFIER WITH NO DRAIN AND NO STANDING WATER

The new Aprilaire Model 400 introduces breakthrough technology that uses 100% of the water that goes into the unit. It's an entirely new option for customers with septic systems, drainage issues or environmental concerns.

The Model 400 offers quick installation and easy maintenance without the standing water, offensive odors and burned-out components associated with drum-type and portable humidifiers. It's just the technology you expect from Aprilaire – the leader in whole-house humidification.



CONSUMER benefits	CONTRACTOR benefits
<ul style="list-style-type: none"> • A new option for customers who are conscious about the amount of water they use (i.e., septic systems homeowners) • Simple to operate and easy to maintain • Saves money on water and sewer costs and preserves septic systems • Eliminates standing water, offensive odors and burned-out pumps and motors 	<ul style="list-style-type: none"> • Fast and easy installation • Increased profit with a second water panel sale each humidification season • Flexible installation satisfies every application • Safety features virtually eliminate overflows • Eliminates callbacks
<p>The Model 400 is Another Quality Product from the Leader in Residential Humidifiers – Aprilaire</p>	

HOW IT WORKS

When the Automatic Humidifier Control calls for humidity:

- The solenoid valve opens and water flows into the water panel evaporator. Water enters the right float chamber.
- As water enters the float chamber, the float inside begins to rise. This breaks the electrical connection with the water level sensor and shuts the unit off by disconnecting power to the solenoid valve.
- Water in the float chamber wicks up the panel and is evaporated as the furnace moves air through it.
- As water wicks up, the float drops down and makes contact with the water level sensor assembly. This restores the electrical connection and opens the solenoid valve. The entire process repeats itself until the furnace blower shuts off or the humidistat is satisfied.

SPECIFICATIONS:

Evaporative Capacity: .7 g.p.h.

Area It Will Handle:

- Loose House (2 air changes per hour) - 1000 sq.ft.
- Average House (1 air change per hour) - 2000 sq.ft.
- Tight House (1/2 air change per hour) - 4000 sq.ft.

Unit Size (Inches): 14" W x 15 1/8" H x 10 3/8" D

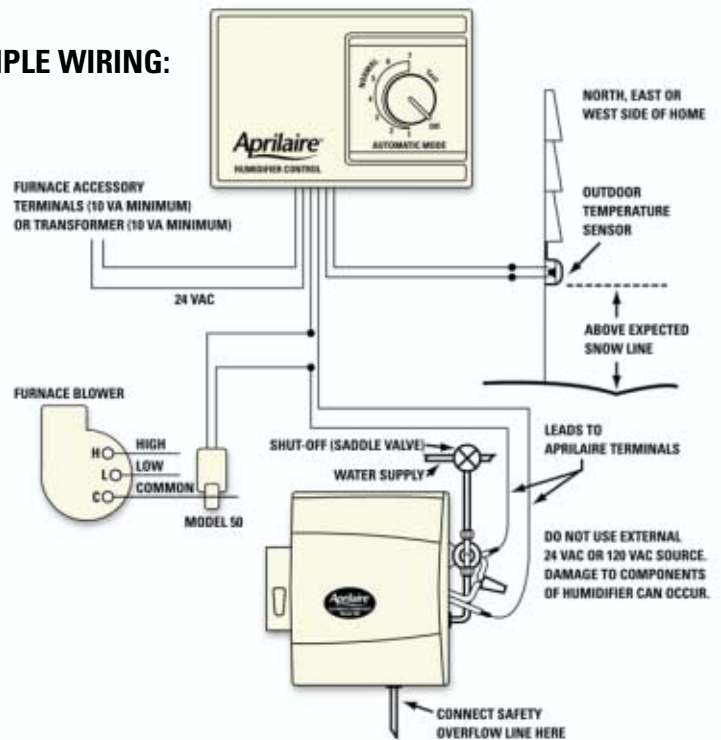
Bypass Connection: 6" round

Plenum Opening: 9" W x 12" H

Electrical data: 24V - 60 Hz - 0.5 amp

Note: not recommended for heat pump applications

SIMPLE WIRING:



THE MODEL 400 INCORPORATES SEVERAL SAFETY FEATURES

The left float chamber operates as a safety back-up to the right float. In the unlikely event the right float failed and water continued to fill the chamber, the water would spill into the left float chamber. This chamber is isolated from the wicking action of the water panel and the air coming through the humidifier.

During the heating season, water in the isolated back-up chamber will evaporate over approximately two days. If the left chamber dries out, the safety float would engage the solenoids valve, but the system would shut down. This design virtually eliminates overflows.

If both floats were to fail, water would flow out of the left-hand float chamber and into the center of the scale control insert, which would direct the water to the safety overflow drain connection at the bottom of the humidifier.