American Music Furniture Company, LLC

Auto-fill Requirements and Specifications

American Music Furniture Company, auto-fill system features:

- Integrated electronic solenoid valve.

With the valve integrated within the system, there is no need to install and wire a complicated external valve assembly to the water supply.

- Redundant valve control.

The system features an electronic double float system to ensure proper water levels for worry free operation.

- Quick connect tube fittings.

Simple Push-to-Connect ¼" tube fitting for the water supply and disconnect valve to allow for easy, tool-free installation and maintenance.

- Reverse osmosis compatibility.

RO water can be extremely corrosive and typically runs at low pressure. We have designed the entire AutoFill system using PVDF and Stainless Steel to minimize corrosion and to accept very low inlet pressure.
**System Requirements**

*All systems should be installed by a Licensed Plumber or HVACR technician*

**Tube:** It is suggested that Firm or Hard (Shore A88-A90) ¼” OD Nylon, Polyurethane or Polyethylene tubing suitable for drinking water is used.

**Water Pressure:** The typical inlet water pressure should be 5 to 40 psi MAX.

**Water temperature:** Cold or ambient water temperature is recommended.

**Water Filtration:** Depending on your area, both ground water (Well) and municipal (City) supplies will have impurities that are not desirable. Minerals, Sediments, and Organics will harm the system and environment the system is in. It is suggested that a good filtration and sanitation system be used in conjunction with this system. A simple under the counter reverse osmosis type system is all that is typically necessary. If you must use untreated water, please clean the system and components on a quarterly basis. All Vigilant AutoFill systems are shipped with a 200 mesh screen filter. It is mandatory that the Screen Filter be used regardless of any pre-filtration and located as the last stage of the water supply. Failure to utilize this component will cause improper operation and will void any warranties. See Supply Configuration later in this section.

**Line Purge:** It is all too common to see installation debris such as tube cuttings and rust from old equipment clog the valve and hinder operation. It is mandatory that the fully assembled water supply line be purged prior to connection to the system and after any service is performed. Run the water at full volume for an extended period of time to flush any debris out of the line. Purge time and quantity will vary depending on pre-treatment method and or storage tank capacity.

**Overflow protection:** We seal the wooden enclosure that the humidifier is housed in, however we recommend that you periodically check the enclosure to ensure that no leak has developed.
Water inlet and overflow drain

**Water Inlet:**

Firm or Hard (Shore A88-A90) \( \frac{1}{4} \)" OD Nylon. Polyurethane. Polyethylene Tubing should be used.

Water Inlet pressure:

5-40 PSI MAX

**Drain Spud:**

Firm (Shore A75-A80) 1/2" ID Polyurethane, PVC Plastic Tubing should be used.

*The Drain fitting is for emergency overflow only.*
SUPPLY CONFIGURATION

The AutoFill system includes a 200 Mesh Screen Filter\(^1\) and Shut off valve\(^2\)

It is mandatory that the Screen Filter\(^1\) be used regardless of any pre-filtration.

Locate the filter as the last stage of the water supply and in an accessible area close to the system.

Failure to utilize this component will cause improper operation and will void any warranties.
FILTER SERVICE

The screen filter can easily be inspected and serviced. Simply unscrew the cup from the body and clean or replace the screen.

Do not apply excessive vibration, torque, shock or other strong loads to the filter. The filter body may become damaged or collets may be dislocated.