



Commercial Upflow Filter Instructions

Please fill in this data for future reference :

Model No. _____ Serial No. _____

Date Installed _____

Installed By _____

- *Please refer to specifications drawing for maximum temperature & pressure. Do not exceed these limits!*
- *Please comply with all applicable plumbing codes.*
- *Read instructions completely before installing.*

Installation Procedure

1. **Unpacking & Inspection** - Inspect for any visible damage; if found, contact transportation company for damages. Please refer to enclosed spec drawing for a listing of all included items. Piping and standard plumbing items are not included.
NOTE: It is recommended to install unions at all connections to this equipment.
2. **Location** - Select a location near the water service inlet, kept from freezing, and reasonably dry. The floor should be level, and capable of bearing a heavy load. Keep in mind any future media replacement and allow adequate access.

3. **Check Distributor & Bottom Closure** - Confirm that the tank bottom closure (if used) is tight. Remove top manifold on 1" units or top stack assembly on 2" units. Look down into the media tank(s) with a flashlight to confirm that distributor has not been damaged during shipment.
 - A. **Hub & Lateral with Threaded Laterals** (used on 1" Upflow Filters) - Consists of eight (8) lateral sections connected to a hub attached to the bottom of the distributor tube. These lateral sections are threaded into the hub (one at a time) by lifting up on the distributor tube and reaching hand (holding one section) down into the top opening of the tank. They are screwed into the hub until snug only.
 - B. **Top Stack Assembly with Bottom Hub and Threaded Laterals** (used on 2" Upflow Filters) - Consists of a stack assembly threaded into the top of mineral tank and a hub with eight (8) lateral sections threaded to the hub. This hub and lateral assembly is threaded into the bottom of the mineral tank. Inlet (bottom) and outlet (top) connections are 2" female socket weld.
4. **Filling Media Tanks** - Plug the top opening of the distributor tube(s) with a piece of cloth, cork, etc. **Fill the tank(s) about 1/3 with water**, then pour in gravel **slowly**. For units with multiple gravel sizes, put the largest ("A") in first, followed by medium ("B"), and finally the smallest ("D"). Pour in the media, which should result in the tank(s) being approximately 1/2 to 2/3 full. If this is a multiple tank system, be sure to divide the gravel and media evenly. Fill tank(s) **completely** with water, and remove plug(s) that you put into distributor tube(s).

CAUTION - If you dump in the gravel without first filling tank(s) 1/3 with water, then the distributor may crack. Media and gravel will pass onto service, and the tank may eventually leak from internal "sandblasting". To replace the distributor, you'll have to empty the tank completely!!

5. **Water Supply Connections** - Inlets and outlets are indicated on the 1" units with flow arrows, on 2" units the inlet is on the bottom, the outlet is out the top. Install pressure gauges on the inlet and outlet piping, and pipe in a bypass. If your system has any type of water heating device, then a check valve **must** be installed in the outlet line from the unit. The tanks can "grow" up to 1/8" in height due to water pressure. If the piping can not bend adequately to compensate for this deviation, install flexible connections. Install a vacuum breaker if a siphon condition could occur (from a break at lower elevation, etc.). It is recommended to install a sample tap after the unit(s) to purge excess air and media fines from system after installation.

Connections - 1" units - FNPT
- 2" units - Female Socket Weld