



**Technical Bulletin 2002-01 (rev3)
INSTALLATION AND START-UP PROCEDURES**

**For AdEdge Residential Point-Of-Entry Systems
Using E33 Granular Ferric Oxide**

AdEdge Technologies, Inc. (AdEdge) Bayoxide® E33 arsenic adsorption material is a dry, granular, flow able material designed for easy installation in traditional water treatment vessels in a down flow manner and periodic backwash. The material is supplied in fiber drums, super sacks, corrugated boxes and other appropriate containers. These procedures are intended to be guidelines for start-up of AdEdge POE treatment units and those containing AdEdge Bayoxide E33 (NSF 61 Certified granular ferric oxide) designed or those designed, assembled and sold which are consistent with AdEdge use specifications. Details may vary based on the specific application and adsorption media employed. This bulletin is not intended to provide comprehensive use instructions. Please consult AdEdge Technologies for details. Installations are to be performed by licensed mechanical contractors, plumbers or water treatment professionals familiar with water treatment equipment.

Media Loading

1. Wear appropriate safety equipment i.e. eyewear, gloves, respirator, or other.
2. Fill the mineral tank 1/3 full with potable water to reduce dust and prevent damage to the internals.
3. Sanitize system by pouring 1-2 ounces of common 5.25% or 6% household bleach into the mineral tank.
4. Cover the riser tube to prevent media from entering the distributor and riser tube.
5. Using a large open funnel fill the mineral tank with gravel or appropriate under-bed material, verify the distributor is covered.
6. Add the AdEdge Bayoxide E33 filtration media.
7. Upon filling verify the approximate void space from the top of the media to the threads of the tank.

Model: POE-5-1252: 15"

Model: POE-7-1354: 12"

Model: POE-10-1465: 12"

8. Remove the material covering the riser tube to provide a clear path for water in operation.
9. Fill mineral tank with water and allow 2-3 hours minimum for the media to soak before preparing system for operation, permitting trapped air to release and preventing unnecessary service issues on start-up.

Upon completing media loading and installation follow the startup procedures to prepare the system for operation.



Start-Up Procedures

1. The media has been soaking during installation and set up (2 – 3 hours minimum) to absorb water and release air.
2. Before pressurizing the treatment system, place the system into the backwash cycle.
3. Unplug the power source to remain in the backwash cycle.
4. Slightly open the inlet water line to allow less than 1/3 water flow. Allow the system to backwash until the backwash water is clear and free of media fines. Typically 10-15 minutes.
5. Incrementally increase by 1/3 or less flow rate and verify the water is clean and clear before increasing water flow.
6. With the system backwashing take a rubber mallet and repeatedly tap on the exterior of the tank. Tap high and low on the tank, the vibration is intended to free media from clinging to the sides or bottom of the tank.
7. Once full flow is reached and the backwash water is clear allow at least 15 or 20 minutes for a complete backwash.
8. Open the outlet bypass valve handle and all sample ports to purge air in the plumbing system.
9. Restore power to the treatment system.
10. Advance to the rinse cycle.
11. Allow the system to rinse for 2 minutes and return to the service position.
12. Before drawing a test sample allow the water to run 5-10 minutes to ensure steady state conditions are achieved for an accurate test.
13. Before leaving the site, program the valve to backwash overnight at the scheduled time of day.

Failure to follow startup procedures may result in poor water quality and substandard performance.

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