



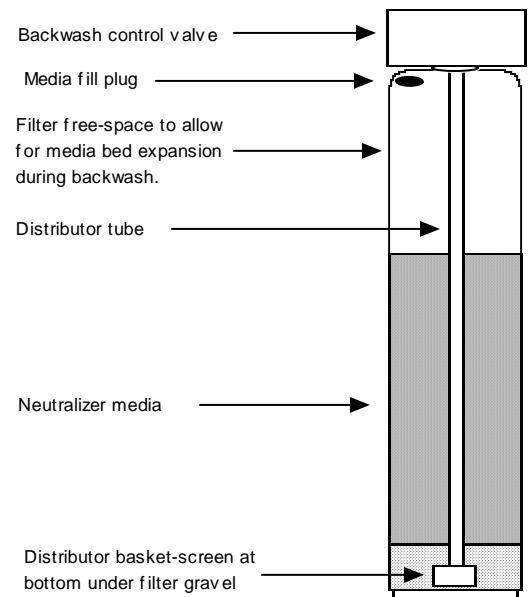
## How to Add Calcite and/or Corosex to Neutralizer Tank Down Flow and Up Flow Systems

CALCITE MEDIA CONTAINS DUST. USE PAPER MASK OR VENTILATE TO AVOID BREATHING DUST.

### Adding Calcite To Down-Flow Type Neutralizers with Top Plug (this type has a backwash control valve)

Check pH before and after neutralizer periodically. A pH of less than 7.0 pH is acidic and a range of 7.2 to 8.0 is best for preventing corrosion of pipe and fixtures. Once or twice a year, depending on pH levels add more calcite media to the neutralizer filter as follows:

1. Begin by putting neutralizer filter on bypass, or turning the water pressure off before the neutralizer.
2. Initiate a manual backwash cycle. Since it is on bypass, this will relieve the pressure inside the control valve so you safely unscrew the Media Fill Plug located on top of the neutralizer tank. Unplug the control valve cord from the wall outlet.
3. Unscrew the media fill plug with a channel locks or pliers and using a tube or hose, syphon 2 to 3 gallons of water out of the filter tank. If you don't syphon water out, when you add filter media, water will flow out the fill plug hole and flow onto the floor. If water on the floor is OK then you do not have to syphon water out first before pouring calcite media into top fill plug hole.
4. Add neutralizer filter media until the tank is 2/3rds full. Do not over-fill, be sure to leave at least 12" of free space above media to allow room for the media to expand during a backwash.
5. Plug back in the control valve, and slowly turn on the bypass valve slowly at first back to the service position (if its in "service" this means its in the proper position for filtering and neutralizing. Allow the system to go through a complete backwash and rinse cycle. Repeat backwash cycle by starting another manual cycle, so the neutralizer is thoroughly backwashed and rinsed before putting it back into service.



### Adding Calcite to Down-Flow Type Neutralizers Without a Top Fill Plug

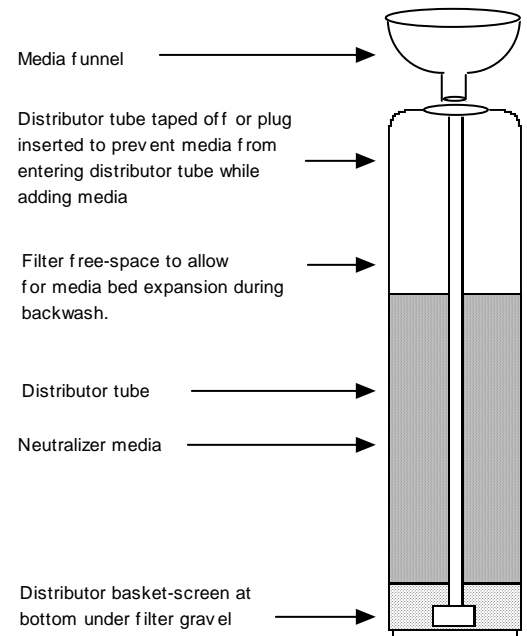
1. Begin by putting neutralizer filter on bypass, or turning the water pressure off before the neutralizer.
2. Initiate a manual backwash cycle. Since it is on bypass, this will relieve the pressure inside the control valve so you safely remove the backwash control valve on top of the neutralizer tank. Unplug the control valve cord from the wall outlet.
3. After you unscrew and remove the control valve, put a small tube or hose down into the distributor tube and syphon out a few gallons of water from the neutralizer. If you don't syphon water out, when you add filter media, water will

flow out the top of the tank and spill onto the floor. If water on the floor is OK then you do not have to siphon water out first before pouring calcite media into top fill plug hole.

4. Using tape (black electrical tape works well) tape off the top of the distributor tube so no media can get down into the distributor tube. Use one complete piece of tape and leave about a 1/2" length of tape loose so you can easily remove the tape in one piece after you are finished adding the media.

4. Add neutralizer filter media until the tank is 2/3rds full. Do not over-fill, be sure to leave at least 12" of free space above media to allow room for the media to expand during a backwash.

5. Reinstall the backwash control valve. Plug the control valve cord back into the electrical outlet. Turn on the bypass valve slowly at first back to the service position (if its in "service" this means its in the proper position for filtering and neutralizing. Allow the system to go through a complete backwash and rinse cycle. Repeat backwash cycle by starting another manual cycle, so the neutralizer is thoroughly backwashed and rinsed before putting it back into service.

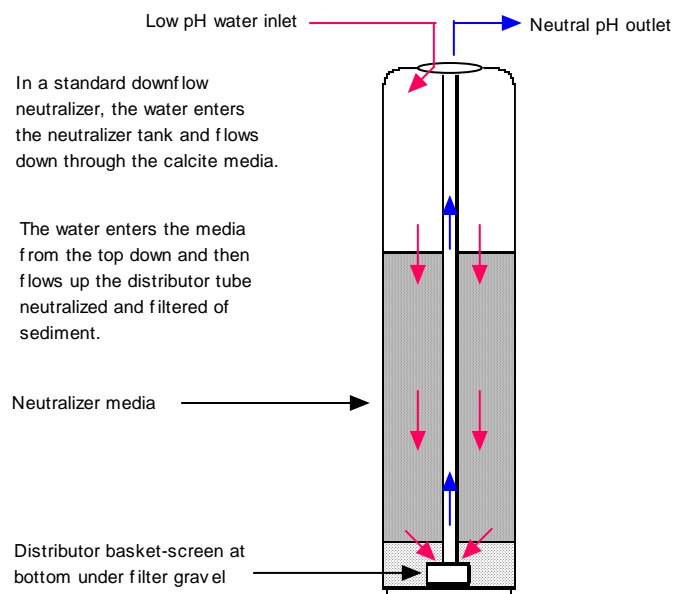


## Understanding the Difference Between Up-Flow and Down-Flow Calcite Neutralizers

### Down-Flow neutralizers have backwashing control valves:

In a standard downflow neutralizer the water enters the top of the tank and flows down through the media and up the distributor tube. The downflow type neutralizer removes sediment and can be backwashed, which cleans & re-classifies the calcite, preventing channeling. During backwash, the water flow is reversed and water flows down the distributor tube and up through the media, lifting and expanding the calcite media. During the backwash the calcite is cleaned by the action of the water flowing through it.

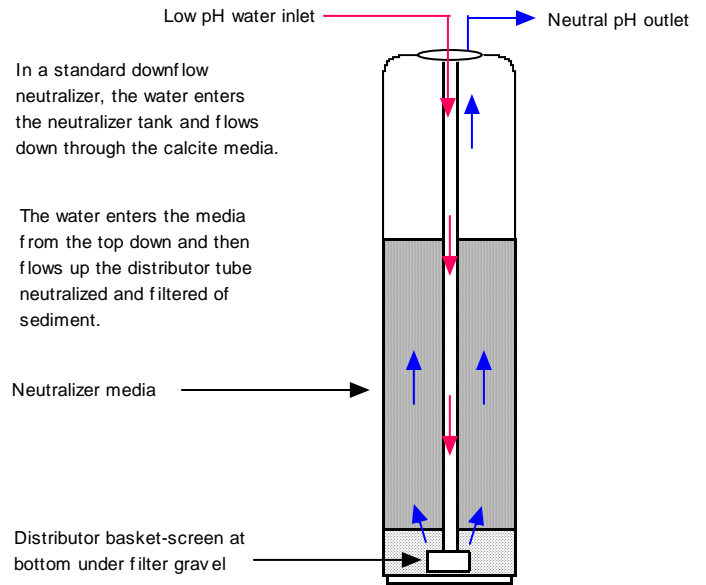
Standard DownFlow Neutralizer - this type typically has a backwash control valve (valve not shown)



**Up-Flow neutralizers do not have or need backwashing control valves:**

In an upflow neutralizer the water always flows down the distributor tube and up through the calcite media. Upflow neutralizers have no backwash control valve and are not backwashed, because the water is always flowing up through the calcite so there is no need for a backwash. This type works well in some applications and prevents the need for any backwash drain connection. However the up-flow types often have problems with channelling,

UpFlow Neutralizer - this type has no backwash control valve and is not routinely backwashed. (valve not shown)



**Adding Calcite to Up-Flow Type Neutralizers With or Without a Top Fill Plug**

1. Begin by putting neutralizer filter on bypass, or turning the water pressure off before the neutralizer. Open up faucet or hose bib downstream of the neutralizer to release pressure in the neutralizer tank.
2. Unscrew the media fill plug with a channel locks or pliers and using a tube or hose, syphon 2 to 3 gallons of water out of the filter tank. If you don't syphon water out, when you add filter media, water will flow out the fill plug hole and flow onto the floor. If water on the floor is OK then you do not have to syphon water out first before pouring calcite media into top fill plug hole.
3. If there is no top fill plug, then unscrew the top tank manifold to get access to the tank to be able to add calcite media to the tank.
4. Add neutralizer filter media until the tank is 2/3rds full. Do not over-fill, be sure to leave at least 12" of free space above media to allow room for the media to expand during a backwash.
5. Re-install the top fill plug or tank manifold. Close the valve after the upflow neutralizer so no water can flow to the house. Open up the hose bib after the neutralizer and slowly turn on the water to the neutralizer. Allow the water to run slowly at first for 10 minutes, then turn on water to full force and rinse the media thoroughly for 20 minutes before putting into service, if possible.

UpFlow Neutralizer - showing gate or ball valves installed before and after the neutralizer. A hose bib is shown after the neutralizer for rinsing the media after putting into service. An optional filter cartridge can be installed after the neutralizer to prevent calcite from accidentally rinsing into the household plumbing during normal use.

