

pH Neutralizer Refilling Procedure

Below we describe the basic installation steps that are common to every CAI pH Neutralizer system that uses our standard Autotrol Performa control. Depending on customer requirements, we may configure a neutralizer with a different brand of control, and refilling procedures may vary slightly from those as described below. If this applies to you, please contact our customer service department at 800-580-3033 with any questions that are not specifically addressed in this procedure.

To refill your pH neutralizer:

- 1) Disconnect (un-plug) the control valve power from the electrical supply.
- 2) Close both the inlet and outlet by-pass valves.
- 3) There is a button on the front of your control that contains an arrow. You will see a slot for a screwdriver in the center of the button. Using a flathead screwdriver, depress the button to release the mechanism, and rotate the button counter-clockwise into the backwash position. This will relieve the water pressure in the unit.
- 5) Carefully remove the dome port cap mounted on the top shoulder of the tank (counter-clockwise to unscrew).
- 6) Siphon off the water that is visible above the top of the media.

>> NOTE THE FOLLOWING STEPS ARE USED ONLY WHEN REPLACING ALL CALCITE MEDIA WITHIN THE NEUTRALIZER – WHEN ONLY RECHARGING THE SYSTEM, SKIP TO STEP 11 <<

- 7) Unscrew the connection between the by-pass valve and the control valve – CAUTION!! be sure you are removing the correct nuts that attach the valve to the by-pass – removing the nuts that connect the water supply lines to the by-pass will result in extreme flooding unless the supply water piping has been depressurized and emptied.
- 8) Remove the valve from the top of the tank to allow for easier access to the media bed. It unscrews from the tank in a normal counter-clockwise direction.
- 9) Remove the media within the tank (using a wet/dry vacuum works well).
- 10) Add new gravel. Cover the bottom distributor basket by about 3 inches.
- 11) Add new neutralizer media to the 2/3 full level – no higher than 11 inches to the top of the tank.
- 12) Re-install the dome port cap - hand tighten - and then a little more to seal - do not over-tighten! It is normal for a very slow "drip" leak to be visible for awhile when first put into service - this will soon stop. If you have any silicon grease available, applying a

small quantity to the O-ring contained on the plug will make for easier re-installation and removal in the future.

13) If you have removed the valve from the tank, now is the time to re-install it along with the by-pass valve, and reconnect it to your household plumbing. If you have only removed the dome hole plug (fill port) for periodic replenishment of the media, just proceed onto the next step.

14) Slowly open the inlet by-pass valve, and allow the tank to fill. When the tank is full, open the outlet by-pass valve.

15) With the unit still in backwash position, you will note that rinse water is running to drain. At first this water will be slightly "cloudy" - allow the unit to backwash until the water runs clear (normally 3 to 10 minutes). After water is running clear, plug in the electrical, and advance the button (counter-clockwise as above) into the Conditioned Water position. The neutralizer is now ready for normal operation.