

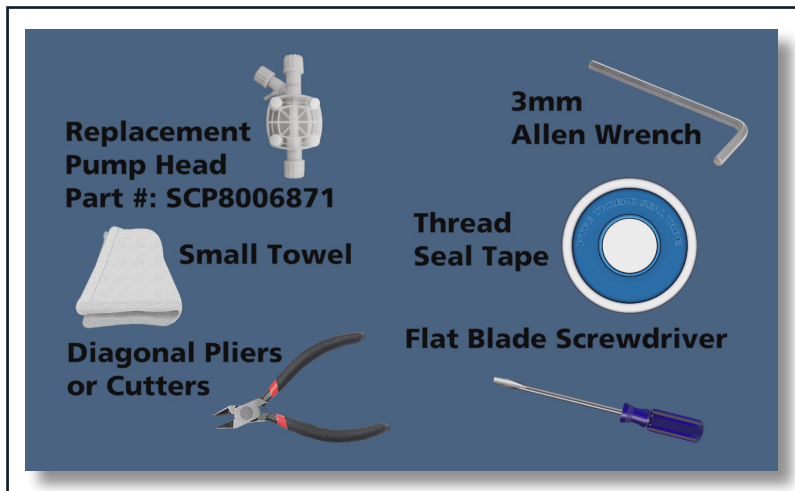


Proper protection, such as gloves, eyewear, and aprons, are recommended when handling a pump.

## e128 Medicator Rebuild Instructions

How to rebuild the **e128 Medicator** pump. This can be performed with the pump still mounted to the wall. It's best to perform the rebuild in a clean area, so make sure to cover your chemical bucket so you don't lose any parts.

### To start you will need:



- The replacement Pump Head  
(Part # SCP8006871)
- The Installation/Tubing Kit  
(Part # SCO0131021).
- A 3mm Allen wrench
- Diagonal pliers or cutters
- Thread seal tape
- A small towel
- A flat blade screw driver

### Maintenance Tip

The simplest way to perform maintenance on the **e128 Medicator** pump is to run fresh water through between uses.

This helps to prevent build-up inside the foot filter, tubing, pump head, and injection valve and allows for these components to last longer.





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## e128 Medicator Rebuild Instructions



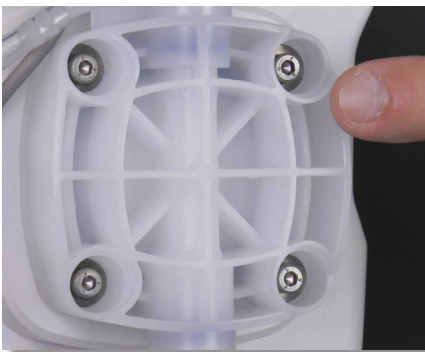
### PUMP HEAD

**Step 1:** Before rebuilding the **e128 Medicator** pump, disconnect the unit from the power supply and turn off the water.



**Step 2:** First, remove and discard the four (4) white caps at the corners of the pump head.

This can be done with your finger or a flat blade screw driver.

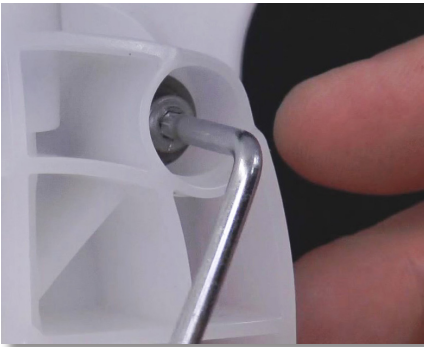


**Step 3:** Underneath the white caps are four screws.



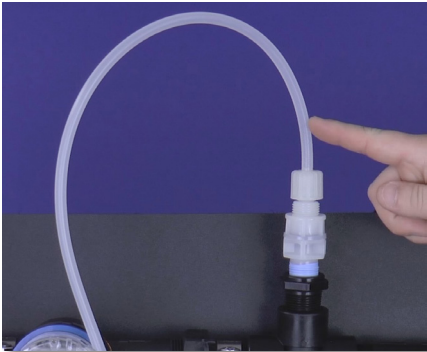
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## e128 Medicator Rebuild Instructions



**Please pay careful attention through the removal of the used pump head and connected tubing.**

**Step 4:** Using the Allen wrench, loosen each screw, but do not entirely remove them. Only loosen until the pump head can be removed by hand from the pump itself. Do not remove the pump head yet.



**Step 5:** Locate the used rigid discharge tubing connected to the old injection valve.

Keep the tube upright to ensure no remaining chemical spills out.



**Step 6:** Use the diagonal pliers or cutters to cut the tube as close to the old injection valve as possible.



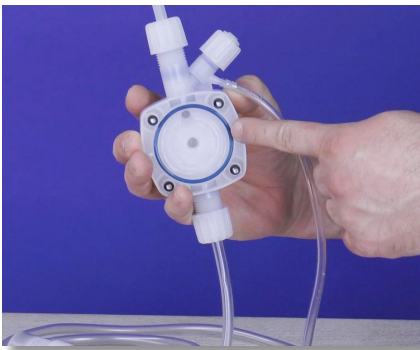
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## e128 Medicator Rebuild Instructions



**Step 7:** Set the diagonal pliers down and use the same hand to remove the pump head along with the connected tubing, and foot filter. They should all come off as one piece.

**NOTE:** Be careful of any chemical splash up.



**Step 8:** Once removed, check the backside of the pump head to see if the blue o-ring is in the groove.

If the blue o-ring is there, then discard the pump head along with the blue o-ring, connected tubing, and foot filter.



**Step 9:** If the blue o-ring is not there, still discard the pump head, but check to see if the blue o-ring is stuck to the e128 Pump.



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## e128 Medicator Rebuild Instructions



**Step 10:** If so, remove and discard the blue o-ring now. This can be done with your finger or flat blade screwdriver.



**Step 11:** Using the small towel, wipe clean the diaphragm and any other chemical stricken parts on the pump.



**Step 12:** Unscrew, and disconnect the old injection valve from the tee.

**NOTE:** Be careful of any chemical splash up.



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## e128 Medicator Rebuild Instructions



**Step 13:** Take the new pump head out of its bag along with the four (4), new, small white caps. Set the white caps aside.



**Step 14:** Turn the pump head over so you are looking at the backside of the pump head. Check to see if the large blue o-ring sits in the groove.

If not, look to see if it fell out in the pump head bag or call **Dilution Solutions** for assistance at **1-800-451-6628**.



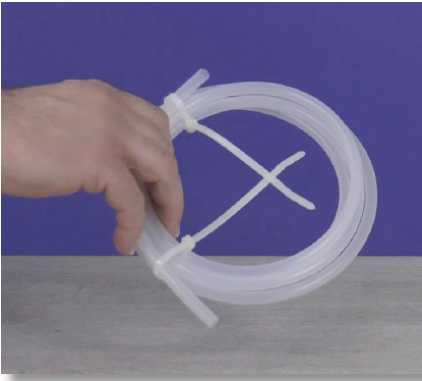
**Step 15:** Insert the large blue o-ring into the groove on the backside of the pump head.





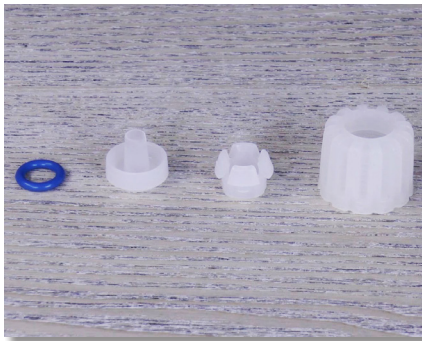
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## e128 Medicator Rebuild Instructions



### DISCHARGE VALVE

**Step 16:** Open the Installation/Tubing Kit, take out the rigid polyethylene discharge tubing and set it aside.



**Step 17:** Remove a small blue o-ring, a medium size nozzle, one large collar, and the discharge valve tube nut from the pump head bag.

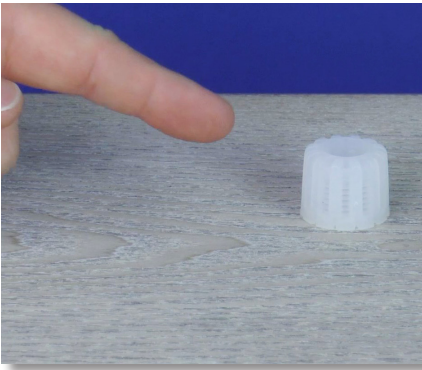


**Step 18:** If the discharge valve connections are already attached to the pump head, then remove the discharge valve tube nut, collar, and nozzle from the discharge valve at the top of the pump head.



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## e128 Medicator Rebuild Instructions



**Step 19:** Set the collar and nozzle aside, and make sure not to lose them.

Hold onto the discharge valve tube nut, since you will need it for the next step.



**Step 20:** Slide one end of the rigid polyethylene discharge tubing through the outside opening of the tube nut.



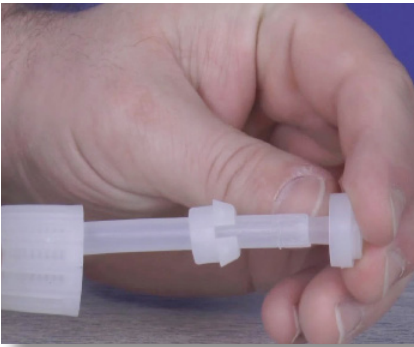
**Step 21:** Slide the collar onto the tube, and make sure the collar's crown is pointing away from the tube nut.





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## e128 Medicator Rebuild Instructions



**Step 22:** Grab the nozzle and insert the pointed end into the opening of the same tube.



**Step 23:** Push the collar and nozzle together as close as possible, and pull the tube nut toward the nozzle to compress the collar and nozzle tight together, forming a ferrule connection.



**Step 24:** Place the small blue o-ring on the top of the discharge valve.



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## e128 Medicator Rebuild Instructions



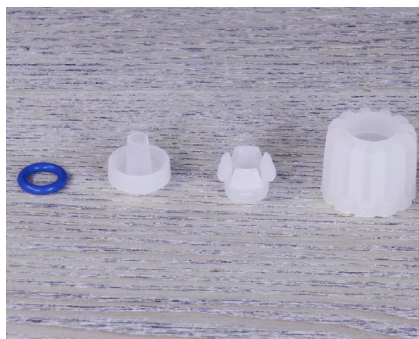
**Step 25:** Attach the tube, and tube connections onto the discharge valve by hand tightening the tube nut. Do not cross thread nor overtighten.

This should push the o-ring into the groove. If the tube nut is not securing, recheck the ferrule connection. Pull the tube nut toward the nozzle, once more, to compress the collar and nozzle together. Retighten the tube nut until secure.



### SUCTION VALVE

**Step 26:** Remove the larger, clear, flexible, PVC suction tubing from the installation kit and set it aside.



**Step 27:** Remove a small blue o-ring, a medium size nozzle, one large collar, and the suction valve tube nut from the pump head bag.

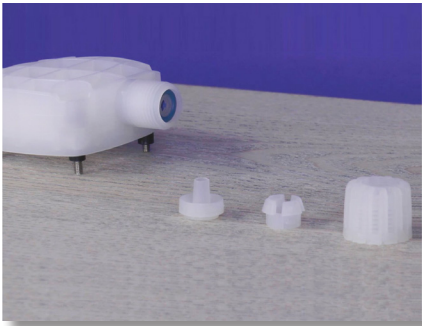


Ignore the extra pieces in the bag since they are not used for the **e128 Medicator**.



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## e128 Medicator Rebuild Instructions



**Step 28:** If the suction valve connections are already attached to the pump head, then remove the suction valve tube nut, collar, and nozzle from the suction valve at the bottom of the pump head.

Set the collar and nozzle aside, and make sure not to lose them. Hold onto the suction valve tube nut since you will need it for the next step.



**Step 29:** Slide one end of the PVC tubing through the outside opening of your tube nut.



**Step 30:** Slide the collar onto the tube and make sure the collar's crown is pointing away from the tube nut.



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## e128 Medicator Rebuild Instructions



**Step 31:** Take the nozzle and insert the pointed end into the opening of the same tube.



**Step 32:** Push the collar and nozzle together as close as possible.



**Step 33:** Pull the tube nut toward the nozzle to compress the collar and nozzle tight together, forming a ferrule connection.

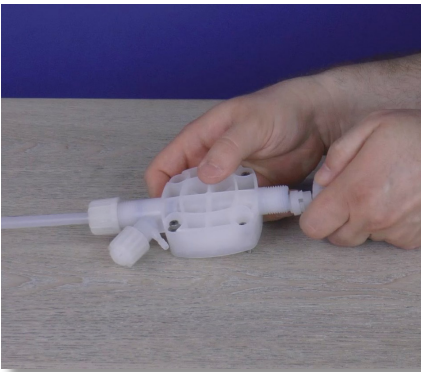


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## e128 Medicator Rebuild Instructions



**Step 34:** Place the small blue o-ring onto the suction valve.



**Step 35:** Attach the tube, and tube connections onto the suction valve by hand tightening the tube nut. Do not cross thread nor overtighten.

This should push the o-ring into the groove. If the tube nut is not securing, recheck the ferrule connection. Pull the tube nut toward the nozzle, once more, to compress the collar and nozzle together. Retighten the tube nut until secure.



**Step 36:** To install the new pump head, align it so the Y- shape points upwards on the Etatron.





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## e128 Medicator Rebuild Instructions



**Step 37:** Use the Allen Wrench to carefully hand-tighten the four Pump Head screws in a crisscross pattern until evenly snug. Do not overtighten. This keeps the head aligned and on straight.



**Step 38:** To finish up, take the four, new, small white caps you set aside earlier, and put one over each screw.



### INJECTION VALVE

**Step 39:** Grab the new injection valve out of the installation kit, and remove the tube nut, collar, and nozzle. Set these items aside, and make sure not to lose them.



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## e128 Medicator Rebuild Instructions



**Step 40:** Take the thread seal tape and wrap it around the threads of the injection valve for the necessary size; either 3/8 or 1/2 inch.

**NOTE:** Blue or pink seal tape: wrap 3 - 4 times around.  
White seal tape: wrap 5 - 6 times around.



**Step 41:** Install and hand tighten the Injection Valve into the installation saddle or tee in the supply line. Do not overtighten.

**NOTE:** The arrow on the Injection Valve should be pointing down.



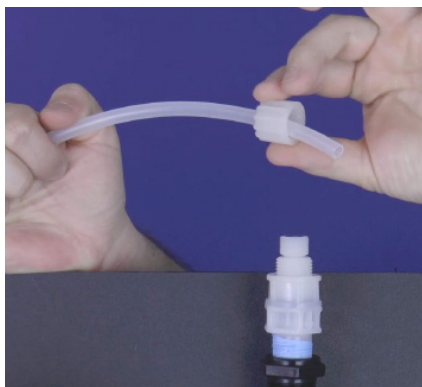
**Step 42:** Grab the rigid polyethylene discharge tube connected to the discharge valve. Using diagonal pliers, cut the tube so that it runs comfortably from the discharge valve to the injection valve.

If the tubing is too snug, the tubing connection will come loose and produce a leak.



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## e128 Medicator Rebuild Instructions



**Step 43:** Grab the injection valve tube nut and slide the loose end of the connected discharge tubing through the outside opening of the tube nut.



**Step 44:** Slide the collar onto the tube, making sure the collar's crown is pointing toward the injection valve.

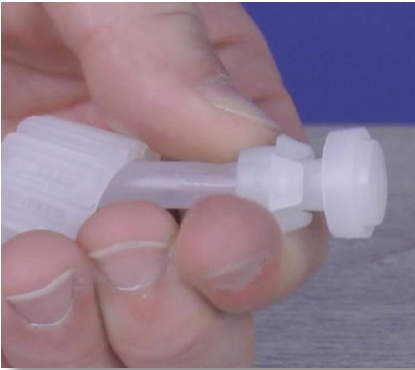


**Step 45:** Grab the nozzle and insert the pointed end into the opening of the same tube.



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## e128 Medicator Rebuild Instructions



**Step 46:** Push the collar and nozzle together as close as possible.



**Step 47:** Pull the tube nut toward the nozzle to compress the collar and nozzle tight together, forming a ferrule connection.



**Step 48:** Attach the tube, and tube connections onto the injection valve by hand tightening the tube nut. Do not cross thread nor overtighten.

If the tube nut is not securing, recheck the ferrule connection. Pull the tube nut toward the nozzle, once more, to compress the collar and nozzle together. Retighten the tube nut until secure.



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## e128 Medicator Rebuild Instructions



### FOOT FILTER

**Step 49:** Cut the PVC suction tubing, connected to the suction valve, so that the foot filter comfortably sits in the chemical bucket in a vertical position.



**Step 50:** Grab the new foot filter from the installation kit and remove its tube nut, collar, and nozzle. Set everything, but the foot filter tube nut, aside. Make sure not to lose those items.



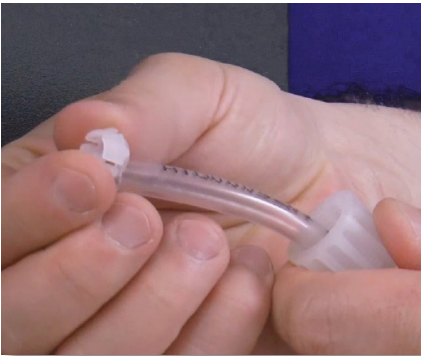
**Step 51:** Slide the open end of the PVC tubing through the outside opening of the tube nut.





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## e128 Medicator Rebuild Instructions



**Step 52:** Slide the collar onto the tube and make sure the collar's crown is pointing toward the foot filter.



**Step 53:** Grab the nozzle and insert the pointed end into the opening of the same tube. Push the collar and nozzle together as close as possible.



**Step 54:** Pull the tube nut toward the nozzle to compress the collar and nozzle tight together, forming a ferrule connection.

Let the PVC suction tubing, along with the foot filter tube nut, collar, and nozzle hang from the pump head.



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## e128 Medicator Rebuild Instructions



**Step 55:** Grab the foot filter and shake it back and forth. You should hear a ceramic ball moving freely inside.



**Step 56:** If not, separate the foot filter into three (3) pieces by popping the filter basket from the filter body.

The filter seat may stick to the filterbody. Make sure it rests in the filter basket instead, to avoid losing the ceramic ball.



**Step 57:** Set the filter body aside and locate the ceramic ball in the filter seat.



**NOTE:** If there is no ceramic ball, call **Dilution Solutions** @ **1-800-451-6628** for assistance.



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## e128 Medicator Rebuild Instructions



**Step 58:** Pull the filter seat out of the filter basket and set the filter basket aside.



**Step 59:** Pour the ceramic ball into your hand and use the small towel to wipe the ceramic ball clean. Do not misplace it.



**Step 60:** Put the ceramic ball back into the filter seat.



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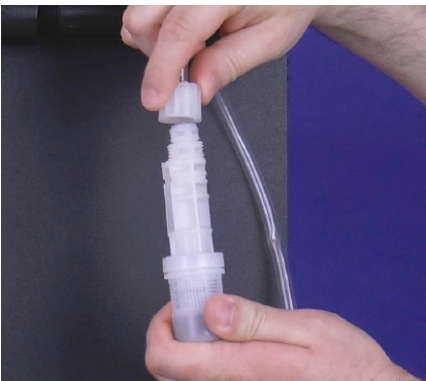


**Step 61:** Place the filter seat back into the filter basket.



**Step 62:** Insert the filter basket into the filter body and forcefully pop them together. This may take a couple of tries, please be sure not to misplace the ceramic ball.

Pull on the two sections to make sure they are connected securely, and shake the foot filter back and forth, to verify the ceramic ball is moving freely.



**Step 63:** Grab the PVC suction tubing hanging down from the suction valve and attach the tube, foot filter tube nut, collar, and nozzle onto the foot filter by hand tightening the tube nut. Do not cross thread nor overtighten.

If the tube nut is not securing, recheck the ferrule connection. Pull the tube nut toward the nozzle, once more, to compress the collar and nozzle together. Retighten the tube nut until secure.



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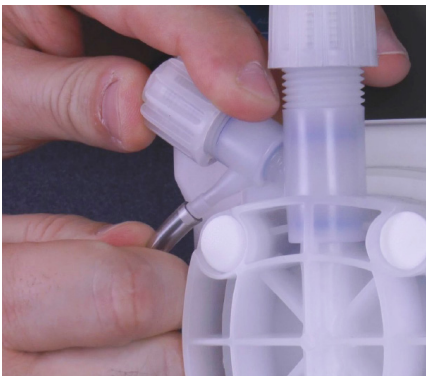
## e128 Medicator Rebuild Instructions



**Step 64:** Place the foot filter into the bucket or stock tank. This ensures the foot filter draws chemistry once you begin operation.



**Step 65:** Take the smaller remaining PVC tubing out of the installation kit.



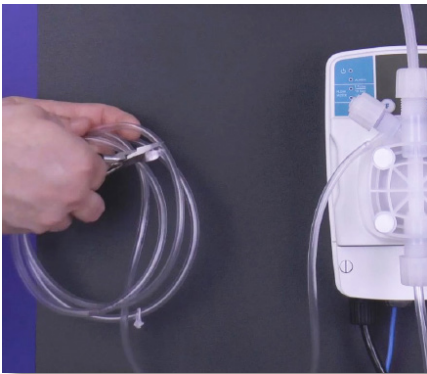
**Step 66:** Locate the manual air bleed barb on the upper left section of the pump head and slide one end of the PVC tubing over the barb.





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## e128 Medicator Rebuild Instructions



**Step 67:** Using the diagonal pliers, cut the tube so that it is long enough for the chemical bleed off to go into the bucket or stock tank.

The **e128 Medicator** should now be ready to connect to the power supply. Go through the priming process, and begin your next use or treatment.

We hope this video has been helpful in rebuilding your **e128 Medicator** pump.

For more information, please call us at **1-800-451-6628**  
or visit us online at [www.dilutionsolutions.com](http://www.dilutionsolutions.com).

To see other videos, check out our **YouTube** channel.

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