

e128 MEDICATOR

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

e128 Medicator Installation Instructions

How to install the **e128 Medicator** pump, and run through its initial operation. It's best to install the **e128 Medicator** in a clean area, make sure to cover the chemical bucket so you don't lose any parts.



The Etatron **e128 Medicator** box includes:

- 1 - **e128 Medicator** pump
- 1 - Mounting bracket
- 1 - Screw & Wall Anchor Kit
- 1 - 3mm Allen wrench
- 1 - Tubing/Installation kit

The **Tubing/Installation Kit** includes:

- 1 - Injection valve (for 3/8 inch or 1/2 inch connection)
- 1 - Foot filter
- 1 - 6 ½ feet of rigid polyethylene discharge tubing
- 1 - 6 ½ feet of clear, flexible PVC suction tubing
- 1 - 6 ½ feet of clear, flexible, smaller diameter PVC bleed-off tubing.



NOTE: You will also need PTFE seal tape, a small towel, and diagonal cutters not included in the **e128 Medicator** box.

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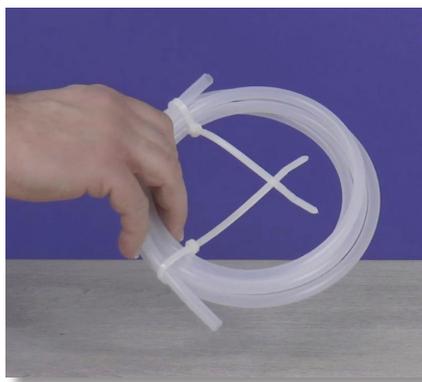


Step 1: To begin, attach the mounting bracket to the wall. You can either use the Screw & Wall Anchor Kit, or your own hardware.

Make sure the arrow on the bracket is pointed in the up direction. Now slide the **e128 Medicator** pump onto the mounting bracket.



Step 2: Do not plug the **e128 Medicator** into a power supply until completed with the physical install.



DISCHARGE VALVE

Step 3: Open the tubing kit, take out the rigid polyethylene discharge tubing and set it aside.

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Step 4: Locate the discharge valve at the top of the pump head. Remove the discharge valve tube nut, collar, and nozzle. Set all three aside.



Step 5: Remove and discard the black shipping disc or transit washer, on the top of the discharge valve. You may need to use a flat blade screw driver to remove.



Step 6: If the black shipping disc or transit washer is not located on the top of the discharge valve, it may be stuck behind the nozzle, remove and discharge.

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Step 7: Make sure not to lose the o-ring directly underneath the transit washer.



Step 8: Grab the discharge valve tube nut you set aside earlier, and slide one end of the rigid polyethylene discharge tubing through the outside opening of the tube nut.

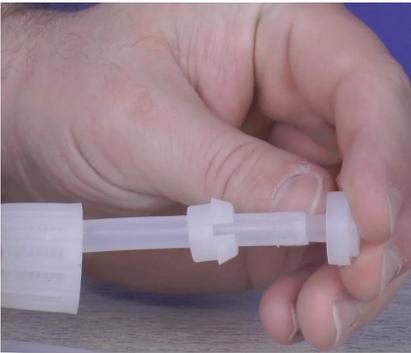


Step 9: Slide the collar onto the tube, and make sure the collar's crown is pointing away from the tube nut.

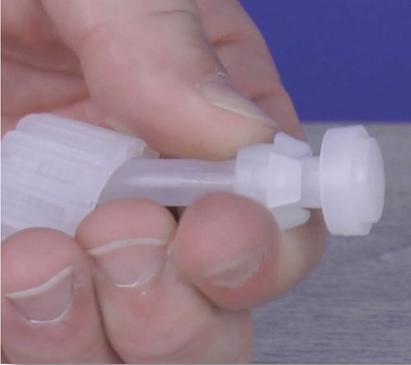
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Step 10: Grab the nozzle and insert the pointed end into the opening of the same tube.



Step 11: Push the collar and nozzle together as close as possible.



Step 12: Pull the tube nut toward the nozzle to compress the collar and nozzle tight together, forming a ferrule connection.

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Step 13: Attach the tube, and tube connections onto the discharge valve by hand tightening the tube nut. Do not cross thread nor overtighten.

NOTE: If the tube nut is not securing, re-check 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.



INJECTION VALVE

Step 14: Grab the new injection valve out of the tubing/ installation kit and remove the tube nut, collar, and nozzle from it.

Set these items aside, and make sure not to lose them.



Step 15: 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: For blue or pink seal tape wrap 3 - 4 times around, for white seal tape wrap 5 - 6 times around.

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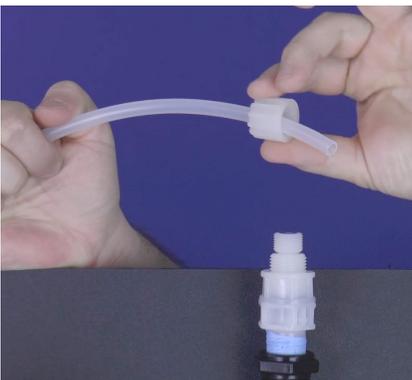
Step 16: Install and hand tighten the injection valve into the installation saddle or tee in the supply line. Do not overtighten.

NOTE: The arrow on the injection valve should be pointing down.



Step 17: 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.



Step 18: Grab the injection valve tube nut, and slide the loose end of the connected discharge tubing through the outside opening of the tube nut.

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Step 19: Slide the collar onto the tube, making sure the collar's crown is pointing toward the injection valve.



Step 20: 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.

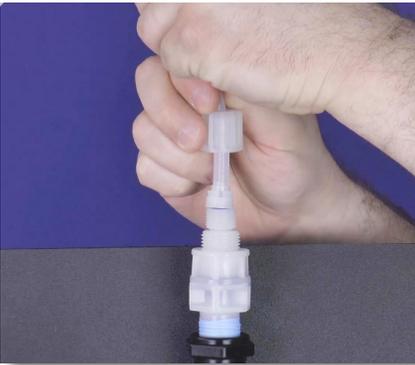


Step 21: Slide the tube nut toward the nozzle to compress the collar and nozzle tight together. This should form a ferrule connection.

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Step 22: Attach the tube, and tube connections onto the injection valve by hand tightening the tube nut. Do not cross thread nor overtighten.

NOTE: If the tube nut is not securing, re-check 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 23: Remove the larger, clear, flexible PVC suction tubing from the tubing kit and set it aside.



Step 24: Locate the suction valve at the bottom of the pump head and remove the suction valve tube nut, collar, and nozzle. Set all three aside.



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Step 25: Check to see if the black transit washer is stuck to the nozzle and remove. If not, see if it is at the bottom of the suction valve. You may need to use a flat blade screw driver to remove.

If it's in neither place, proceed to the next step. Make sure not to lose the blue o-ring directly at the bottom of the suction valve.



Step 26: Slide one end of the PVC tubing through the outside opening of the tube nut.



Step 27: Slide the collar onto the tube making sure the collar's crown is pointing away from the tube nut.

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Step 28: Take 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 29: Pull the tube nut toward the nozzle to compress the collar and nozzle tight together. This should form a ferrule connection.



Step 30: Attach the tube, and tube connections onto the suction valve by hand tightening the tube nut. Do not cross thread nor overtighten.

NOTE: If the tube nut is not securing, re-check 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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FOOT FILTER

Step 31: Next, 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 32: Grab the foot filter from the tubing/installation kit and remove its tube nut, collar, and nozzle.

Hold onto the foot filter tube nut since you will need it for the next step. Set everything else aside, but make sure not to lose these items.



Step 33: Slide the open end of the PVC tubing through the outside opening of the tube nut.

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Step 34: Slide the collar onto the tube and make sure the collar's crown is pointing toward the foot filter.



Step 35: 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.

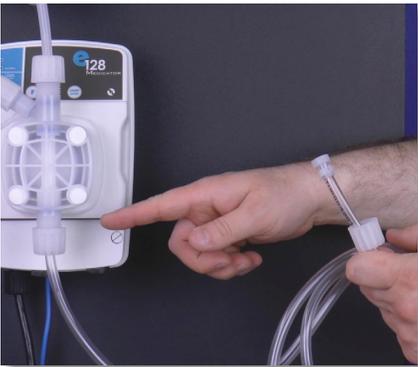


Step 36: Slide the tube nut toward the nozzle to compress the collar and nozzle tight together. This should form a ferrule connection.

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Step 37: Let the PVC suction tubing, along with the foot filter tube nut, collar, and nozzle hang from the pump head.



Step 38: Grab the foot filter and shake it back and forth. You should hear a ceramic ball moving freely inside.



Step 39: 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 filter body. Make sure it rests in the filter basket instead, to avoid losing the ceramic ball.

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Step 40: 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.



Step 41: Pull the filter seat out of the filter basket and set the filter basket aside.



Step 42: Pour the ceramic ball out of the filter seat and into your hand.

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Step 43: Set the filter seat down and use the small towel to wipe the ceramic ball clean. Do not misplace it.



Step 44: While holding onto the ceramic ball, inspect the two blue o-rings in the grooves of the filter seat and make sure they are not damaged.

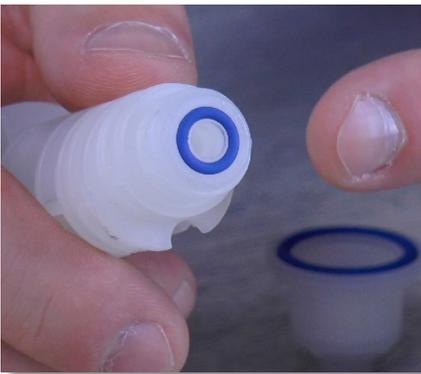


Step 45: Put the ceramic ball back into the filter seat and set the filter seat aside.

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Step 46: Grab the filter body and inspect to make sure the small blue o-ring on the top of the filter body is not damaged.

NOTE: If any o-ring is damaged, call **Dilution Solutions @ 1-800-451-6628** for assistance.



Step 47: Set the filter body down, grab the filter basket and put the filter seat back into the filter basket.



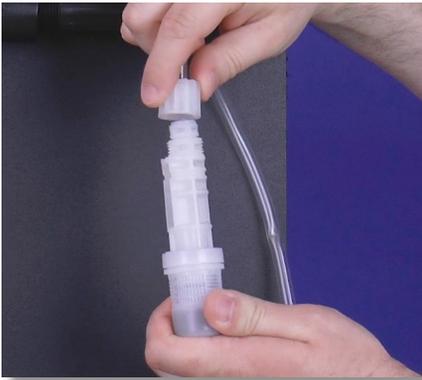
Step 48: Insert the filter basket into the filter body and forcefully pop them together. This may take a couple of tries, but please make sure not to misplace the ceramic ball.

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

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Step 49: Grab the PVC suction tubing hanging down from the suction valve; and attach tube, foot filter tube nut, collar, and nozzle onto the foot filter by hand tightening the tube nut. Do not cross thread nor overtighten.

NOTE: If the tube nut is not securing, re-check 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 50: Place the foot filter into the bucket or stock tank. This ensures the foot filter draws chemistry once you begin operation.



Step 51: Take the smaller remaining PVC tubing out of the installation kit.

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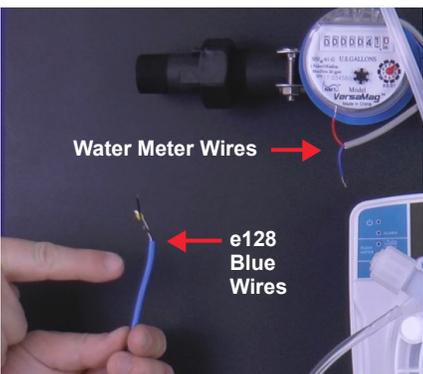
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Step 52: Locate the manual air bleed barb on the upper left section of the pump's head and slide one end of the PVC tubing over the barb.

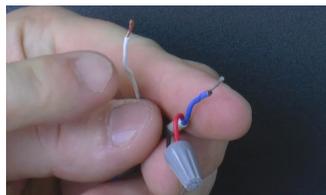


Step 53: Using the diagonal pliers, cut the tube so that it is long enough for the chemical bleed off to go into the bucket or stock tank.



INITIAL SETUP AND PRIMING

Step 54: Locate the e128 Medicator blue lead wires as well as the lead wires in the water meter, and connect the two sets of wires together.



NOTE: Polarity typically does not matter, but if it does, the e128 white wire is positive. Use wire nuts if necessary.

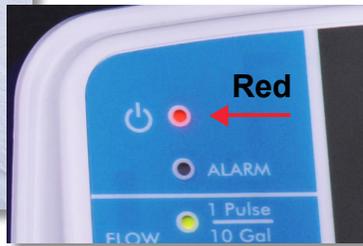
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Step 55: Connect the **e128 Medicator** to the power supply. The power LED will light up red. The pump is now in **Set-up Mode**.



Step 56: Press the 'F' or function button a couple of times until the priming LED lights up green.



Step 57: Open the air bleed valve on the top left of the pump's head and push the **Start/Stop** button.

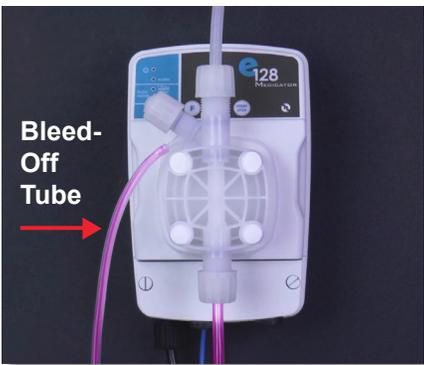
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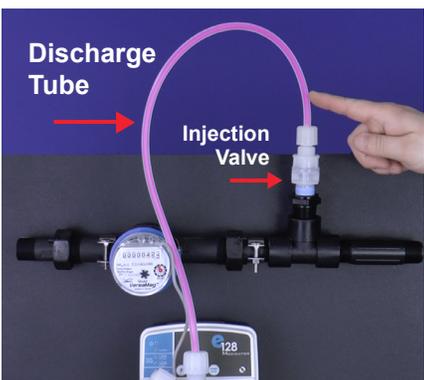
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Step 58: The e128 should start stroking or clicking, and chemical should start coming up the suction tube.



Step 59: Once chemical starts going down the bleed-off tube, close the air bleed valve on the pump's head.



Step 60: Chemical should now go up the discharge tube and into the injection valve.

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Step 61: When the priming process completes, the **e128 Medicator** stops stroking and the power LED lights up green. The pump is now in **Stand-By Mode**.



Step 62: Press the **Start/Stop** button once more. This puts the pump back into **Set-up Mode**.



Step 63: Press the **"F"** button and select a program to match your water meter. Either 1 Pulse per 1 Gallon (1 GPC), or 1 Pulse per 10 Gallons (10 GPC).

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Step 64: Once again, press the **Start/Stop** button. The power LED will light up green and the **e128** is in **Stand-By Mode**, waiting for a signal from the water meter.

PLEASE BE AWARE

- The pump will go through the complete cycle on the first signal from the water meter.
- On the second signal, the pump will then slow down and pace out the chemical delivery.
- The **e128 Medicator** learns the water flow and adjusts the strokes accordingly.

We hope this document has been helpful with installing your **e128 Medicator** pump.

For more information, please call us at **1-800-451-6628**
or visit us online at **www.dilutionsolutions.com**.

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

