



Introduction

The following document outlines the installation procedure for the CER 1 and CER 2 reprocessor(s). Please refer to the PRE-INSTALLATION SPECIFICATIONS document MS15-0002 and verify, using the check list, that all site preparations are complete prior to installing the reprocessor. For installation of the Water Filtration system, please refer to the CER WATER FILTRATION SYSTEM INSTALLATION INSTRUCTIONS MI02-0107 which are supplied with the filtration system.

Set up of Reprocessor

1. If installing an Active Vapor Management System (AVMS) in conjunction with the Reprocessor, please refer to the AVMS instructions for assembly and installation information.
2. Open the box containing the reprocessor. Set the reprocessor on either a Medivators designed cart or counter top. See previous space requirements.
3. Open the lid and remove any bagged items from the basin that were shipped with the reprocessor.
4. Place a bubble level on the front and side edges of the basin. Level the unit using the four (4) adjustable feet on the bottom of the reprocessor. To adjust the level of the reprocessor, rotate the foot clockwise to raise up or counterclockwise to lower the corner. Final verification of proper leveling will occur in the test phase. When the basin is full of liquid, the level of the liquid should be even around the top of the basin.



CAUTION: If installed on a counter, it should be of sufficient strength to hold the reprocessor filled with solution. Refer to the Pre-installation specifications.

Water Supply

1. Attach one end of the stainless steel water hose to the blue water connection on the back of the reprocessor.



2. Attach the other end of the stainless steel hose to the output T fitting of the water filter housing.

On/Off switch
on main power
module



Drain

1. Connect the flexible drain hose to the white drain fitting on the back of the reprocessor and attach the screw clamp.
2. Insert the opposite end of the hose into the drain. A drain with an air gap is the best option. If a trap is used at the site of the drain, the drain pipe should extend 12-18 inches above the trap for best drain performance.





CAUTION: For all models:

- a. The facility drain must be 12 inches (30cm) below the drain fitting on the reprocessor.
- b. Eliminate loops in the drain hose in order for fluids to drain completely.
- c. Incomplete draining will result in dilution of the HLD and/or inadequate rinsing of the endoscope or related accessories.
- d. An open drain provides the best drainage. Attaching the drain to the trap of a sink with a dishwasher drain attachment may result in poor machine drainage.

Electrical

1. Reprocessor Electrical Cord: For all reprocessor models, plug the electrical cord **FIRMLY** into the power entry module on the right side of the reprocessor. Plug the other end into a standard outlet.



CAUTION: The outlet should be outfitted with a ground fault interrupter (GFI for safety)

Drain Screen

1. Make sure that the drain screen is in place (remove the label that held it in place for shipping).



HLD Reservoir

The reservoir can be installed:

1. Under the counter.
2. In the bottom of the customer cart.



CAUTION: Do not place the reservoir on the same level as the reprocessor. The top of the reservoir must be lower than the bottom of the reprocessor.

Typical placement of a reservoir in the CER cart with water filters.



3. Connect the three straight fitting ends of the reservoir tubing set (78399-171) to the three connectors on top of the reservoir. It does not matter which tube is attached to which fitting.



4. Connect the ends with the right angle male quick-release connectors to the quick-release connectors on the back of the reprocessor (labeled Solution In/Solution out). Ensure that they attach firmly – they should “click”. It does not matter which tube is connected to which connector.



5. Add HLD to the reservoir:
 - For the CER 1, add four gallons of HLD
 - For the CER 2, add five gallons of HLD
 - Verify that the HLD is up to the mark or higher for the type of reprocessor connected to the tank.
6. If a heated HLD is to be used, connect the electrical cord **FIRMLY** onto the power entry modal on the front of the reprocessor. Plug the other end into a standard outlet.



7. Turn the power switch to on.



8. Set the temperature on the controller to the appropriate temperature for the HLD in use. Please note the temperature indicated on the display is the set temperature. Verify the actual reservoir temperature by checking the dial thermometer on top of the reservoir.

9. The red light on the controller will illuminate when the tank is heating and has the minimum amount of HLD in the tank.



10. Depending on the amount and required temperature of the HLD, the reservoir may take up to two hours to reach operating temperature.

Testing the Reprocessor



Note: This procedure is only for testing of the reprocessor after the initial installation. Refer to the user manual for operating parameters for reprocessing flexible endoscopes.

Power

Press the power switch located on the right hand side of the reprocessor to ON to power up the reprocessor.



CAUTION: Turning the power ON and then OFF during a cycle will reset the reprocessor to the beginning of the automatic cycle. To avoid an overflow or dilution of the HLD, any fluids remaining in the basin must be returned to the reservoir or manually drained before restarting.

Water

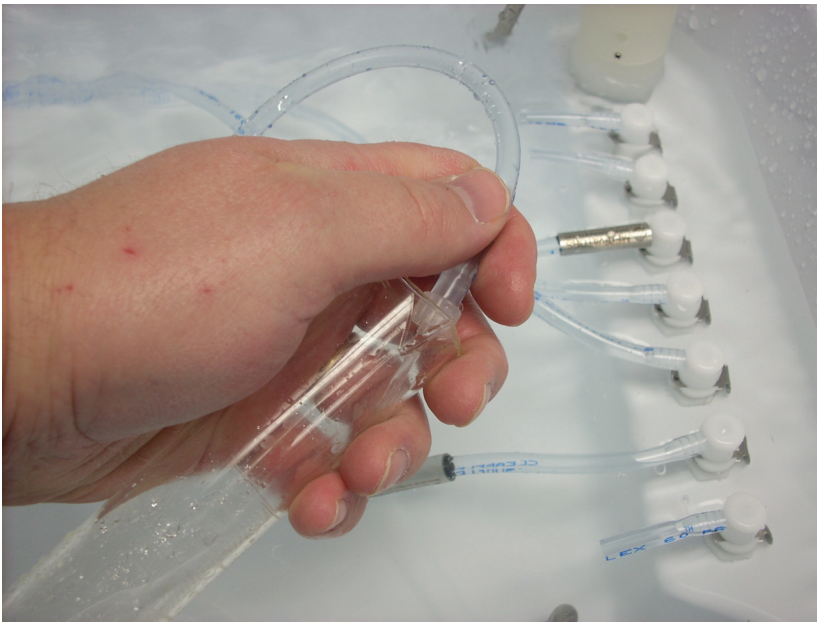
1. Slowly open the water supply valve to the water pre-filtration system
2. Check for leaks on the water pre-filtration unit and all hose connections to the reprocessor. No water should be entering the unit at this point. If so, turn off power and water and contact Medivators Technical Support.

Drain

Verify the drain hose is attached to the drain. Check periodically during the test cycle for leaks in the drain line system.

Verifications of flow through channels

1. Attach a channel connector with a male luer lock to each port.
2. Press START. Water will begin flowing into the basin.
3. Wait until water flows through the channel connectors.
4. Verify water is flowing through each channel connector.



NOTE: The water flow will differ depending on the type of connector. Observe the connector with the male luer lock or an open ended hose. Adequate flow is indicated by 100ML (Approximately 4 oz.) measured into a graduated cylinder or beaker in less than 15 seconds.

5. If water flow through any connector is inadequate, recheck using another connector with male luer lock in order to determine if problem is in the connector or reprocessor.
6. Once flow through all of the channels has been verified (four ports for CER-1 and seven for CER-2), press STOP.

Check Air flow

1. Press MANUAL, then press DRAIN, then press START.
2. With all of the tubing under water, examine each tube for vigorous bubbling. If a channel does not display vigorous bubbling, recheck using a different hook up. If still not bubbling adequately, contact Medivators Technical Support.
3. Allow the basin to completely drain of water.
4. Press STOP.



FINAL TEST

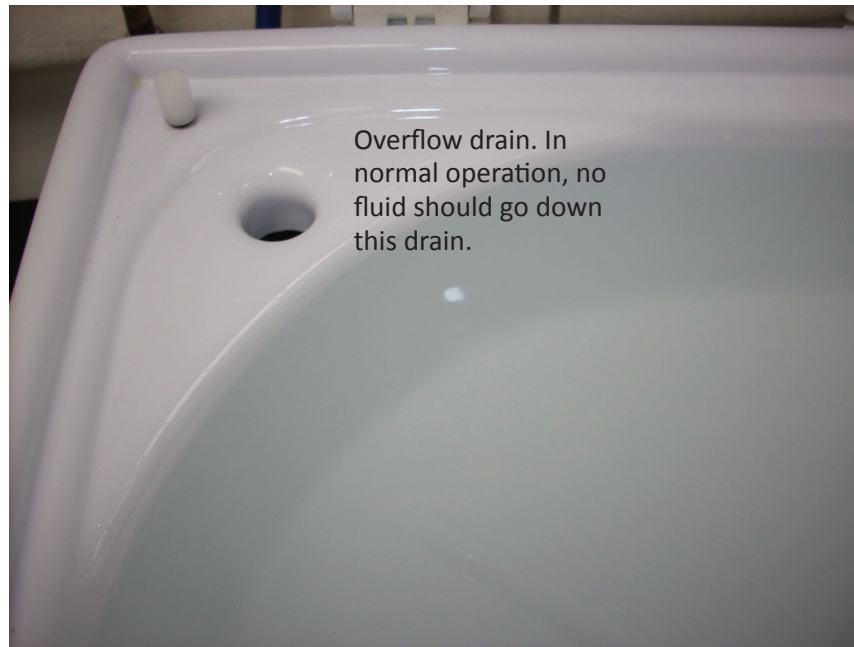
Once air and water flow verification have been completed, run one complete cycle.

1. Select the FULL Automatic cycle
2. Press START
3. While the water is filling, observe the pressure readings on the three pressure gauges located on the water pre-filtration system. The pressure on the incoming pressure gauge #1 should read between 40 PSI and 60 PSI. Gauges #2 and #3 should be within 5 PSI of incoming water pressure gauge #1. If the incoming water pressure is not within the 40-60 PSI range, the reprocessor may experience alarms and premature component failure. Refer to a qualified plumber to correct the incoming water pressure to meet the specifications of the machine.

EXAMPLE OF WATER FILTER GAUGES WHEN MOUNTED IN A CER CART.
THIS IS THE VIEW FROM THE RIGHT SIDE WITH THE PANEL REMOVED FOR ACCESS.



4. When the basin is almost full, observe the overflow drain located on the top left portion of the basin. No water should go down the overflow drain at this point of the cycle. If it does, the machine may not be level. Adjust the legs of the unit until the water is even around the top of the basin.



5. If the cycle completes without errors or leaks, run two additional error free cycles. Once all tests are complete, perform the water line disinfection outlined in the WATER FILTRATION SYSTEM INSTALLATION MI02-0107.
6. Once all the above steps are completed, the unit is ready to be placed in service.

Medivators Website “Resource Center”

Go to: www.minntech.com/medivators, Select “Resource Center” and “User Library” for detailed user guides and hook-up matrices, report forms and logs, and product bulletins

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