NOTE: When replacing filter housing hand tighten only. The filter wrench should only be used to remove a filter housing.

**PURPOSE**

These instructions cover the installation of the water filtration system (PN CER-1076) used with the MEDIVATORS brand CER and CLM endoscope reprocessors.

**WATER SUPPLY**

Use a cold water line with a pressure of 40 to 60 PSI that will supply a flow rate of 2.5 to 3 GPM (9.4 LPM to 11.4 LPM) filter system. The cold water supply should not exceed 110°F (43°C).

**FILTRATION SYSTEM**

NOTE: Endoscope manufacturers recommended that endoscopes not be exposed to temperatures above 130°F (55°C).

NOTE: A water shut-off valve is required before the filter assembly. It should be accessible to the users.

NOTE: THE WATER SUPPLY IS REQUIRED TO BE TURNED OFF WHEN NOT IN USE.

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**Figure 1. Filtration System**
The filtration system consists of the following components:

- Filtration System main assembly (Figure 1)
- Pre Filter: 1 micron filter (reorder #: MF01-0014)
- Final Filter: 0.2-micron bacterial filter (reorder # CF01-0018)
- Filter Wrench (CW03-0000)
- Stainless Steel Hose (CH06-0000)
- Male quick-connect fitting (MC10-0042)
- Female Quick-Connect (MC10-0043)

NOTE: Do not remove the Male/Female quick connectors in Figure 1. These are required to disinfect the filters and water line.

**INSTALLATION**

![Figure 2. Water Filtration System Dimensions](image)

Depth of unit is approximately 6-inches.
Approximate dimensions of the water filter are shown in figure 2.

- **For wall mounting:** Mount the filter assembly on the wall where the pressure gauges can be read easily. Allow a minimum of 30 inches under the assembly for removal of the filter housings and 2.5 inches on each side for connection of hoses.
- **For cart mounting:** Mount the filter assembly in the supplied cart. The pressure gauges should be visible when the right hand access panel is removed.
- Tap into the facility cold water supply line and install a 3/4 inch male hose fitting (not included). This will require a qualified plumbing installer.
- Using a customer supplied hose which is connected to the cold water supply, connect the other end of the hose to the male quick connect and attach the male quick connect to the female quick connect on the water filter assembly. This quick connected arrangement allows the use of the transfer pump for performing the water line disinfection.
- Attach the 3/4 inch hose connection to one end of the supplied stainless steel hose and the other end to the water inlet of the reprocessor.

**NOTE:** Any time the final filter (0.2 micron) is changed, the water line must be disinfected (Section 6)

**CAUTION:** When changing filters, hand tighten the filter housing. Only use the filter wrench to remove housing.

**NOTE:** The pre-filter should be changed every three months, even if water pressure is good. The final filter should be changed at a minimum every six months, even if the water pressure is good.

### FILTER REPLACEMENT

The accumulation of particles in a filter can cause the water pressure to drop below the minimum required level (40 PSI). This depends on water quality which cannot be guaranteed by MEDIVATORS. The pressure drop across the filters is used to determine when the filter(s) should be changed. For example: A pressure differential of 5 PSI or greater between gauges on each side of a filter indicates a need for replacement. For example, if the pressure on gauge #1 is 35 PSI when the pressure on gauge #2 is 40 PSI, a filter change is required.

- Turn off the water supply to the filtration system.
- Press START on the reprocessor to remove the pressure from the filter housings.
- Press STOP.
- Remove filters, clean the housings with a mild general-purpose detergent and water, then rinse thoroughly.
- Place the new 1-micron filter cartridge into the pre-filter housing. Both ends of this filter are open. Ensure that the large O-ring is seated and centered in the end of the filter when it is inserted into the housing. Thread the housing onto its header and hand tighten.
- Place the new 0.2-micron bacterial-retentive filter cartridge into the final-filter housing. Only one end of this filter is open and has an O-rings. Ensure that the O-ring fits tightly on the peg in the top of the housing. Thread the housing onto its header and hand tighten.
NOTE: To ensure seal integrity, the use of a water-based lubricant on the post-filter O-ring is recommended.

**DISINFECTION OF FILTRATION SYSTEM**

Using Liquid Chemical Germicide Transfer Pump (reorder # DSD-1087).

- Turn off the water supply to the filtration system.
- Disconnect the water line from the inlet side of the filtration system.
- Connect the outlet of the transfer pump to the inlet side of the filtration system.
- Insert the inlet tubing of the transfer pump into a one-gallon container of high-level disinfectant.
- Press START on the reprocessor.
- Turn on the transfer pump until the disinfectant solution starts flowing continuously in the basin.
- Press STOP on the reprocessor.
- Turn off the transfer pump.
- Allow the reprocessor and the filters to soak for the time recommended on the product label of the high-level disinfectant for high-level disinfection.
- Reconnect the water line to the inlet side of the filtration system.
- Turn on the water supply to the filtration system.
- Press START and allow the wash cycle to run in order to rinse the disinfectant out of the system. When all of the water has drained, press STOP.
Without using the transfer pump

- Turn off the water supply to the filtration system.
- Remove and fill each housing with approximately 38 ounces (1.12 liters) of high-level disinfectant and replace on header (see Filtration Replacement)
- Allow the filters to soak for the time recommended on the product label of the high-level disinfectant for high-level disinfection.
- Turn on water supply to the filtration system
- Press START and allow the wash cycle to run in order to rinse the disinfectant out of the system. When all of the water has drained, press STOP.