Ethylene Oxide Filters Model A34

1 Balston Model A34 Ethylene Oxide filter assembly contain a filter cartridge and bowl seals, factory installed. A spare set of seals is also included with each assembly ordered.

2 Install shutoff valves upstream and downstream from the filter housing as shown in the schematic installation diagram. Installation in this manner permits isolation of the filter assembly from the system while changing the filter cartridge.

3 Securely fasten the filter housing to a wall or other rigid structure. Optional mounting brackets are available from Balston (see Replacement Parts List for ordering information).

4 Connect hose or piping from the EtO gas cylinder to the inlet port of the filter housing. Connect the outlet port of the filter housing to the sterilizing vessel controls.

5 Check thoroughly for leaks. Check hoses, valves, and filter housing for leaks with a fluorocarbon leak detector (for applications using the 88 percent chlorofluorocarbon, 12 percent EtO mixture).

6 In the unlikely event that a leak is detected at the head/bowl interface of the filter housing:
   - Turn off the Ethylene Oxide flow to the filter housing immediately.
   - Make sure that bowl is fully seated against the head. Excessive tightening is not necessary.
   - Remove the bowl, apply a light coat of silicone lubricant to the O-ring or gasket seals and reassemble it.
   - Replace the seals, if necessary. Use only the seals specified on the Replacement Parts List. Note: A spare set of seals is included with each new Ethylene Oxide filter assembly.

Ethylene Oxide is extremely hazardous! Use caution in handling and operation.

These instructions must be thoroughly read and understood before installing and operating this product. If you have any questions or concerns, please call the Balston Technical Services Department at 800-343-4048, 8AM to 5PM Eastern Time.
Operation

All installation, operation, and maintenance procedures for the Balston Model A34 Ethylene Oxide filters should be performed by trained personnel using reasonable care.

The cleanliness of Ethylene Oxide typically varies from source to source and from delivery to delivery. In addition, EtO inherently polymerizes, which clogs valves and regulators and causes sterilizers to malfunction. Filtering EtO at the point of use assures delivery of clean EtO to sterilizers, significantly improves sterilizer performance, and reduces sterilizer maintenance.

Balston filters, specifically designed for Ethylene Oxide service, are constructed of stainless steel with Teflon seals. The LP Grade 30 or ET Grade 30 filter cartridge is inexpensive and simple to replace when necessary.

The Model A34 is sized for most hospital sterilizer applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum EtO Pressure</th>
<th>Maximum EtO Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>A34</td>
<td>250 psig</td>
<td>180°F (82°C)</td>
</tr>
</tbody>
</table>

Notes:

1. Each filter assembly is supplied with one filter cartridge installed. Replacement filter cartridges are sold in boxes of 3 and boxes of 10. For example, Box of 3: LP-3/100-12-30. Box of 10: LP-100-12-30.

2. Each filter assembly is supplied with a spare Teflon seal set. New seals should be installed each time the filter cartridge is replaced. Keep replacement seal sets in inventory (see ordering information on pages 3 and 4).

3. The tie nut at the base of the bowl on the Model A34 filter must be tightened to 30 foot pounds torque after replacing the filter cartridge.

Maintenance

Balston strongly recommends following the guidelines set forth in the Federal Register Vol. 49, No. 76, pg. 15272. An excerpt is as follows:

Workplace Practices

All the workplace practices discussed in this unit must be permanently posted near the door of each sterilizer prior to use by an operator.

Changing of supply line filters - Filters in the sterilizer liquid line must be changed as necessary by the following procedure:

- Close the cylinder valve and the hose valve.
- Disconnect the cylinder hose (piping) from the cylinder.
- Open the hose valve and bleed slowly into a proper ventilating system at or near the in-use supply cylinder.
- Vacate the area until the line is empty.
- Change the filter.
- Reconnect the lines and reverse the valve position.
- Check hoses, filters, and valves for leaks with a fluorocarbon leak detector (for those sterilizers using the 88 percent chlorofluorocarbon 12 percent ethylene oxide mixture (12.88).

End of excerpt from Federal Register

Filter Cartridge Disposal

Place the used cartridge in a Model B, breathable polyethylene bag, and seal the bag. Place this package in an aerator for 12 hours. Once aerated, the filter can be disposed of in the normal manner.
### REPLACEMENT PARTS FOR TYPE A34

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
<th>MAT' L</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ELEMENT RETAINER</td>
<td>33963</td>
<td>316 SS</td>
</tr>
<tr>
<td>2</td>
<td>HEAD</td>
<td>33165-1/4</td>
<td>316 SS</td>
</tr>
<tr>
<td>3</td>
<td>BOWL</td>
<td>33160</td>
<td>316 SS</td>
</tr>
<tr>
<td>4</td>
<td>TIE ROD</td>
<td>33962</td>
<td>316 SS</td>
</tr>
<tr>
<td>5</td>
<td>TIE NUT</td>
<td>34217</td>
<td>316 SS</td>
</tr>
<tr>
<td>6</td>
<td>FILTER TUBE</td>
<td>LP-100-12-30</td>
<td>----</td>
</tr>
<tr>
<td>7, 8</td>
<td>SEAL SET</td>
<td>22956</td>
<td>TEFLO N</td>
</tr>
<tr>
<td>9</td>
<td>MOUNTING BRACKET</td>
<td>11038</td>
<td>CAD/PTD</td>
</tr>
</tbody>
</table>

ORDER BY PART NUMBER AND DESCRIPTION  

= OPTIONAL PARTS

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For assistance, call toll-free at 800-343-4048