



**TYLER**  
**Research Corporation**  
Biomedical Engineering



**Product:** HPMR-CB06SS  
HPMR-CB32SS

**Material:** Stainless steel with silicone or Viton seals and stainless steel screws

The HPMR-CB06SS and HPMR-CB32SS are manufactured from medical grade stainless steel, a durable corrosion, stain and rust resistant alloy. The HPMR-CBXXSS series devices may be safely sterilized using an autoclave.

#### **IMPORTANT:**

##### **Sterilizing HPMR-CBXXSS series devices:**

1. The fully assembled HPMR-CBXXSS may be autoclaved or disassembled and sterilized in parts.
2. Place the entire device in an autoclave bag or wrap in surgical towels and tape the package closed with an indicating tape.
3. Refer to the manual of the autoclave in use for proper loading techniques and correct positioning of the items to be sterilized. Sterilize at 121°C for 15 minutes.

##### **ALBERNATIVE METHODS FOR STERILIZATION:**

Clean the HPMR-CBXXSS device with mild detergents and warm water followed by one or more of the following procedures:

1. Exposure to ethylene oxide gas (available in many hospitals)
2. Exposure to ionizing radiation (Cobalt 60 gamma or X-rays)
3. Treatment with agents containing 2% glutaraldehyde (e.g. Cidex)
4. Soaking overnight in sodium hypochlorite solution (5%)
5. Prolonged exposure to sodium metabisulfite solution (15 g/liter)

it is important to soak and rinse the devices in sterile deionized water thoroughly before placing them back in service.

## HPMR-CB06SS / HPMR-CB32SS

### Assembly/Disassembly Instructions:

The HPMR-CBXXSS series biofilm systems are precision devices consisting of a single circular bore stainless steel manifold, 6 or 32 stainless steel biostud sampling ports with stainless steel ejector screws, two 1" NPT connections and silicone or Viton O-rings.

Assembly or disassembly of the HPMR-CBXXSS device for cleaning requires a #1 Phillips screwdriver.

### Disassembly of the HPMR-CBXXSS

1. Turn the biostud holders counterclockwise to remove them from their ports. If the holders are populated with biostuds, remove the biostuds from the holders by turning the stainless steel panhead screws clockwise by hand or with a #2 Phillips screwdriver to partially eject the biostuds. Grasp the stems of the partially ejected biostuds with sterile forceps to remove them for analysis.
2. Wash all components using detergent and water, and thoroughly rinse with deionized water. Allow to dry before reassembly. Lubricate all O-rings with silicone O-ring lube to promote sealing and prolong O-ring life.

### Assembly of the HPMR-CBXXSS

1. Back off the nylon ejector screws from the surface of the holder approximately 1/4". Populate the holders with biostuds of the appropriate material by pushing the stem into the holder until the shoulder of the biostud seats fully against the end of the holder.
2. **NOTE:** The flat recessed ring in the bottom of each manifold port is a precision sealing surface against which the O-ring in the face of the biostud holder seats. This must be kept free of foreign matter and scratches. Return the populated biostud holders to their respective ports, tightening firmly *by hand only* to affect a seal.
3. **NOTE:** The 32-port HPMR-CB32SS consists of the primary manifold with biostud ports, and an extension tube whose purpose is to establish laminar flow. The two sections are connected through mating flanges with an O-ring seal, connected by four stainless steel socket head cap screws.