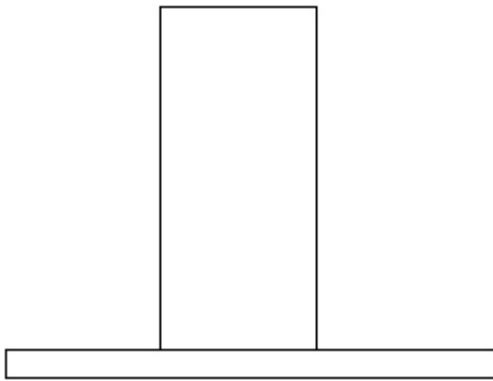
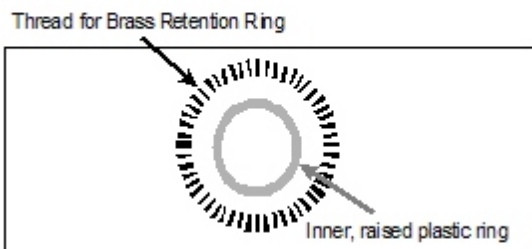


◆Utermöhl Chamber: Tips and Hints◆



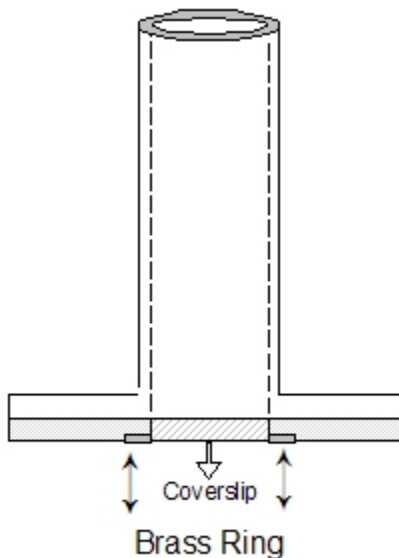
Tower Section
Lateral View

A. **Please** practice assembling the Tower Section and the Settling Chamber Base Plate with water until you feel secure and confident using this product. It may take several attempts.



Settling Chamber Base Plate
Ventral View

B. **Settling Chamber Base Plate Prep:** Remove the brass retention ring which is located in the Settling Chamber Base Plate, using forceps or a chamber key. Apply very little vacuum grease on the inner, raised plastic ring on which the coverslip sits. Drop the coverslip directly onto the greased, inner raised ring, being careful not to get grease on the settling area of the coverslip. Line up coverslip with the inner raised ring and screw in the brass retention ring as tightly as you can without breaking the coverslip. Spread a thin layer of grease (Dow Corning High Vacuum Grease) onto the top of the Settling Chamber Base Plate. Leave a thin area (1-2 mm) directly next to the Chamber Plate well. Take a paper towel and wipe off any excess grease to get a very thin, even layer. When wiping, wipe lengthwise on the plate.



Assembled Tower and Settling Chamber Base Plate
Lateral View

C. **Assembling Tower Section and Settling Chamber Base Plate.** On a firm surface, apply the Tower Section to the Chamber Base Plate. Slide the Tower Section back and forth on the base plate (VERY slightly), also turning it VERY slightly from side to side so that you get the greatest amount of adhesion. Then apply moderate force downward while, again, VERY slightly, sliding the Tower Section back and forth on the Chamber Base Plate. Square up the edges and wipe off any excess grease. Remember that the movement while applying the Tower Section to the Chamber Base Plate needs to be slight to avoid any grease intruding into the settling area and interfering with proper settling of the sample. Slide the brass weight over the top of the Tower Section if you are using the 100 mL Tower. Put a standard cover slip over the top of the Tower Section to avoid evaporation. See next page for emptying the assembly.