

Plethysmographs, chambers, and accessories are easy to care for and require very little maintenance. Follow the directions below to keep your equipment clean and operating as designed.

## Animal Chamber

Clean the animal chamber as needed of debris by wiping with a cloth or rinsing with warm water. For a more thorough cleaning, use warm water and a mild dish detergent. It is best to let the chambers thoroughly air dry. Be certain that no water remains in any bias flow ports or tubing.

To prevent damage to the Lucite material used in the plethysmographs, use caution when cleaning. Do NOT use Windex or window cleaners. Refer to the following table for the chemical resistance of Acrylite to some common materials. **Do NOT put the plethysmograph in the dishwasher.**

### Chemical Resistance of Acrylite in General Use

Material	Resistant	Not Resistant
Acetone		x
Alcohol, absolute		x
Alcohol, to 30%	x	
Ammonia, aqueous solution	x	
Ammonia	x	
Chlorine, liquid		x
Ethyl alcohol, to 15%	x	
Ethyl alcohol, 15-30%		x
Ethyl alcohol, above 30%		x
Formic acid, to 2%	x	
Formic acid, to 40%		x
Hydrochloric acid	x	
Magnesium sulphate	x	
Manganese sulphate	x	
Mercury	x	
Methylated spirits		x
Mineral oil	x	
Phosphoric acid, to 10%	x	
Silicone oil		x
Soap Solution	x	
Sodium chloride	x	
Solvent stain removers		x
Turpentine		x

### Operating Temperatures

The recommended service temperatures of the GP Cast Acrylic are:

180° F (82° C) – **Continuous**

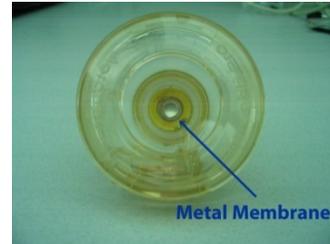
200° Fahrenheit (93° C) - **Intermittent**

# Nebulizer Head

Clean the nebulizing equipment after each use. To clean the nebulizer head, remove it from the plethysmograph or aerosol block and rinse it in warm, soapy water. Let it soak for a few minutes. It can be submerged. Do NOT use a high pressure water stream, just let it run gently into the device.

Do NOT touch the metal membrane or attempt to brush it, as this may cause damage, but do rinse it from both the top and the bottom.

Do NOT clean the head with alcohol. Alcohol will damage the metal membrane. It is best to use soapy water for all general cleaning.



## Warning - Use Correct Drying Position

<p>Shake off the excess water and wipe gently with a paper towel or Kimwipes®.</p> <p>Set the head on its <b>SIDE</b> in a dry place.</p>	
<p>Do <b>NOT</b> stand upright or place it in any inline circuit while not in use.</p> <p>Trapped humidity may cause the metal membrane to discolor.</p>	

If you have a stubborn protein build up on the head, you may try Efferdent. Dissolve a tablet in a glass of water. Then filter the resulting solution with a simple syringe filter. Nebulize it for 10 minutes. Rinse thoroughly and air dry. You may pat gently with paper towels.

DO NOT leave the head attached to the distribution reservoir overnight after use.

If you have been using a pathogen and wish to decontaminate, simply disconnect the head from the power cord, then autoclave it, using the "flash" steam sterilization cycle, 134C for 4 minutes.

## Drierite Crystal Replacement

The drying tube is filled with a desiccant to remove moisture from the air flow. The Drierite crystals used in the cylinders are originally blue in color. When the crystals turn pink, they must be replaced.

Crystals may be replaced in three different ways: 1) install a new cylinder of Drierite crystals available from DSI; 2) remove and replace the crystals with new Drierite crystals; or 3) reuse the existing crystals.

### Replacing the Crystals

The easiest way to replace the desiccant is to empty the used crystals and refill the cylinder with new crystals. Replacement crystals are available from DSI or from Drierite.

After removing the drying tube from the cradle, unscrew the cap and remove the spring, perforated plate, and filter.

*Tip: You may experience some difficulty when unscrewing the top of the tube for the first time. Continue to apply pressure or use a lid removal device until the cap turns.*

If you are not planning to dry and reuse the crystals, have a safe place ready to dispose of them (empty jar or a garbage bag, etc.).

Empty the crystals and replace the filter.

Fill the container with new Drierite crystals up to the line made by the previous crystals. Make sure you do not fill the container past the connection point.

Replace the filter, perforated plate, and spring. Screw the cap back in place and return the tube to the drying stand.

### Reusing the Crystals

To reuse the crystals, set an oven to 415 degrees Fahrenheit. Pour the crystals into a flat pan (do not reuse the pan for human cooking) and heat them until they turn blue again. When they are completely cooled down, pour them back into the drying tubes.

## Technical Support

To contact Technical Support, call 1800.262.9687 or 651.481.7400. Or, visit [www.datasci.com](http://www.datasci.com) and select "Support".

