

**AEROSPACE AMERICA, INC.** air filtration units are designed to meet or exceed standards for high efficiency indoor air quality filtration equipment. Use only Aerospace America, Inc. recommended parts, including replacement filters and HEPA filters. Failure to use Aerospace parts or recommended replacements voids the product warranty and all performance claims.

**First Stage Filters:**

Sliding up the intake door allows you to remove the 1<sup>st</sup> stage filter and replace it. This filter removes large particles up to 10 microns and larger. The first stage filter should be changed daily when used on a 24 hour working cycle. Visual inspection of this filter is recommended. Proper disposal of asbestos, mold and/or lead contaminated filters is required. Although you can visually see when the 1<sup>st</sup> stage filter becomes dirty and thus a change out is required.

**Second Stage Filters:**

The 2<sup>nd</sup> stage filter is located next to the HEPA filter. This should be inspected each time the 1<sup>st</sup> stage filter is replaced. The 2<sup>nd</sup> stage filter removes particles up to 1 micron and larger from the air, thereby protecting the more expensive H.E.P.A. filter. The second stage filter should be changed weekly or more if deemed necessary, depending on your application.

**H.E.P.A. Filter:**

Remove the nuts/tabs and slide the HEPA filter out for replacement. Once the new HEPA is slid into place replace tabs and secure the four (4) nuts extremely tight to ensure proper seal. The H.E.P.A. filters the smaller size asbestos fibers from the air flowing through the unit and has efficiency rating of 99.97% in removing .03 particles. Aerospace suggests changing this filter every 350 hours the unit is in use. Different filtration applications will vary the life cycle of the HEPA.

**IMPORTANT: You can visually check the water column gauge on the control panel. The unit with clean filters will run efficiently at 1.8-2.2 when the HEPA filter becomes dirty and needs replacement this number will increase to 3.5-4.0 In theory, the higher the gauge reads the dirtier the HEPA Filter is. Aerospace does not recommend running the unit in question when the gauge reads past 3.0 This is explained below in the Motor/Fan assembly**

**Motor/Fan Assembly:**

Aerospace units are equipped either a 1.0 h.p. or a 1.75 h.p. motor. The motor powers a centrifugal style fan, which is rated at 2000 C.F.M. This assembly pulls contaminated air through clean filters at the static pressure of 1.8 to 2.2 inches of water column. As the pressure rises to 3.0 or higher, HEPA filter changing is recommended.

**IMPORTANT THINGS TO REMEMBER:**

1. All electrical equipment on the job should be grounded.
2. Do not run electrical cords across floors, and keep them away from water at all times.
3. Do not exceed 100 ft in length for extension cords for the units.
4. Plug in each unit directly to power source. DO NOT plug unit into another unit.
5. Personnel responsible for changing filters are urged to wear approved protective equipment and respirators.