

# Best Practices Permatron® Air Filtration Products

## Mounting

**HailStop®** – Hail guard netting should be permanently mounted to the surface of the unit, utilizing either the Permatron mount designed for this purpose or similar anchored screw/bolt/washer combination. For efficient protection, add a spacer bar to create air space between the hail guard netting and fins. Permatron's mount kit with hardened stainless self-tapping screws have been tested in winds over 100 mph with no shifting or release of the mount. See weather concerns.

Care should be taken to utilize the shortest screws needed to achieve a solid mount and absolutely know what is behind the metal before you begin. Take care NOT to penetrate cooling coil tubing as this will release refrigerant.

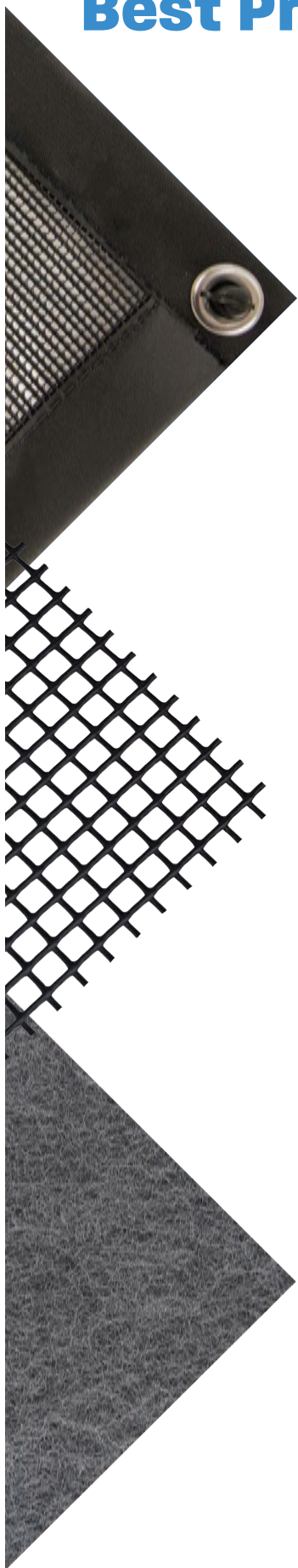
**PreVent® BHC and BHA Filters** – The same caveats apply when mounting the air intake filters to equipment. Care should be taken to avoid the possibility of penetrating cooling coil tubing or other equipment interior controls. As noted above, the original PreVent mount has been tested in winds up to 100 mph without loss of mount integrity. Individual filters also tested to over 90 mph without damage to structural integrity. The MagnaMount® mounting solution has been successfully tested in winds up to 100 mph mounted in front of an air intake or equipment. See weather concerns.

Use of hook and loop affixed to the vinyl edging stops air bypass around the filter screen. The hook component utilizes a high grade commercial adhesive designed for weather extremes but it has been our experience that utilizing only hook and loop to support large screens can sometimes result in downward slippage in extreme heat. Permatron recommends that hook and loop mounted screens be supported at the corners with mounts and possibly some across the top if the screen span is very long and heavy.

**PermaFlo® Media** - PermaFlo media is mounted using either the mount kit with screws or the MagnaMount kit. Both require the addition of the nylon adaptor washers made to fit the base mounts.

When poking a hole to insert the mount through make sure that there is at least 1" of media around the mount to be sure of a solid mount. PermaFlo media has been tested in winds up to 100 mph without damage when properly mounted. See weather concerns.

**Model R** - The PreVent Model R rigid framed filters with magnetic strips affixed to the metal frame are intended for interior use or at least a protected position if used outdoors. These magnets are a strong commercial magnet but they are NOT neodymium as the MagnaMounts are so the strength is limited. We suggest you field trial the design for your application before purchasing large quantities for outdoor use.





## Cleaning & Maintenance

PreVent filters are intended to become part of your normal maintenance programs, while reducing the time and labor needed to complete the maintenance. How often to clean will be dependent on the application, the environment and the use of the equipment. Visual inspection for debris build up should be a part of regular preventative maintenance.

PreVent filters may be cleaned in a variety of ways, including brushing/broom cleaning, vacuuming or hose cleaning. Note that if using a high pressure hose screens should be removed for cleaning to avoid damaging fins behind them. If removing the filters for hose washing it is recommended that you backflush the media – hosing from the reverse side. You may use detergents without harming the filters. Rinse thoroughly.

The filters may be cleaned in place on equipment or be easily removed if using the PreVent mount kits. Permatron will be happy to supply you with an expandable rubber cleaning broom that may be left onsite for easy access near the protected equipment.

## Weather Concerns and/or Contraindications

MagnaMounts have been tested with PreVent and HailStop, and will withstand up to 100 mph direct wind pressure. It is not, however, possible to test for all of the possible wind shear circumstances. If your outdoor application is subject to wind shear or sudden strong gusting we recommend you use permanent anchored mounts to secure the installation.

The PreVent Air Intake Filters are often mounted directly over the surface of equipment intake fins or cooling inlets. In applications where airflow is required 24/7 and year round it is sometimes necessary to take into account regional weather conditions. As an example, in a climate which has very high moisture content in the air but typically does not have freezing temperatures, it is possible for the filters to ice over in the right conditions. In this type of situation it is recommended that the filters be removed or lowered seasonally to prevent unit shutdown. While each application has individual differences and care should be taken to assess the potential for exceptions, the PreVent filters have been designed and tested for their low resistance to airflow and lack of interference with equipment performance when properly installed and maintained.

PreVent filters and mount kits are made from UV protected resins. They are designed to exceed the 5 year manufacturing warranty even in direct sunlight exposure. Filters requested in natural/white fiber are NOT UV protected and are not recommended or warranted for use in outside applications.

PreVent media and mounts are also corrosion resistant, generally making them an excellent product choice for hostile environments containing salts, acids or other reactive gases.

