

Model IN & PreVent® Screen Cleaning Procedures

Permatron IN filters and PreVent® screens perform well at stopping large particulate and debris from impacting downstream equipment and filters. These two styles of filters are made with the same media and will prolong filter changeout frequencies when maintained at regular intervals. Once the screens start to heavily load (as intended), airflow will be reduced, and cleaning needs to take place. External environmental conditions and seasons need to be taken into consideration when determining frequency of inspections and cleaning cycles. We recommend a visual inspection of IN's and PreVent screens every 30 days to determine if proper airflow to downstream equipment is being achieved. Additionally, we recommend that screens be cleaned twice a year, at minimum, to maintain maximum operational efficiency.

A pressure washer should be used to achieve the best results. Both PreVent screens and IN filters can withstand a moderate amount of pressure to clean most debris from the media. Care should be taken not to use too fine or too high of a pressure stream of water. Pressure washer nozzles should create at least an 8" fan of water at 12" of distance to achieve maximum results, and decrease cleaning time. When cleaning, the media should never start to bow or blow out of the frame.

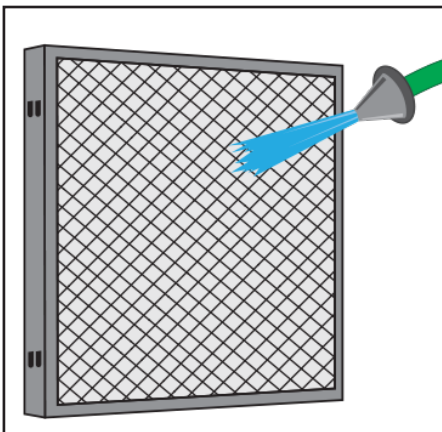


PROCEDURE FOR CLEANING PERMATRON MODEL IN FILTERS:

1. **Determine downstream equipment status and location.**
2. **Determine if downstream equipment should be deenergized prior to cleaning.**
3. **Determine water source location and have enough hose.**
4. **Use an electric or gas pressure washer with a 25-40 degree nozzle.**
5. **Test that pressure and stream are not too severe, prior to cleaning.**
6. **Ensure access to the downstream side of the filters. This may require removal of downstream filters or removal of IN filters from the track or pockets.**

Cleaning IN filters is most effective when cleaned from the back or downstream side. Once the back is exposed, cleaning can begin. When cleaning in place (CIP); start introducing the stream at one corner approximately 12" from the screen. Move the wand side to side to backflush the debris out and off of the screen media, being careful to not apply too much pressure. In extreme cases, this can blow the media off the frame or create a tear. This should not happen, but technician needs to be aware that high pressure may damage filter. Move up, down, side to side until debris is loosened, and falls off the media. If shop air is available, the screen can then be dried off or it can simply air dry. It is best practice to clean up the area where the debris has been washed off to. This will help prevent the debris from blowing right back into the cleaned media.

A second method for cleaning is using a vacuum on the upstream surface of the media. This works well in dryer climates, and when pollen is not a factor.



Model IN & PreVent[®] Screen Cleaning Procedures

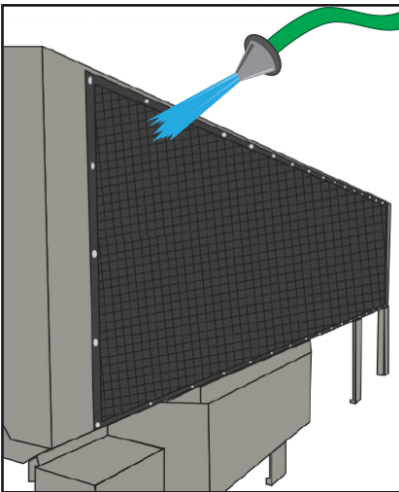
PROCEDURE FOR CLEANING PERMATRON PREVENT[®] SCREENS:

1. Determine downstream equipment status and location.
2. Determine if downstream equipment should be deenergized prior to cleaning.
3. Determine water source location and have enough hose.
4. Use an electric or gas pressure washer with a 25-40 degree nozzle.
5. Test that pressure and stream are not too severe, prior to cleaning.
6. Most Prevent screens are hung vertically, so technician needs to determine if downstream equipment can handle a small amount of water carryover when cleaning. If not, downstream equipment will need to be deenergized or screens will need to be removed. Care needs to be taken to mark each screen's location and position. QR clips are individually installed, and screen positions are not interchangeable.
7. On large screen installations, a lift maybe required. When using a lift, follow all OSHA and individual company protocols for lifts, ladders and fall protection.

The most effective way to clean vertically hung PreVent screens is to use a pressure washer. Since most screens are protecting louvers, it is difficult to clean the screens from the back to the front. Screens will typically need to be cleaned in place (CIP) from the front, using water in a cascade method. With the pressure washer set to provide a 5-6' stream, start cleaning the screen from the top. The pressure washer stream should be pointed at a downward angle toward the screen. This will displace debris, and allow it to cascade down the screen. Keep moving horizontally until the section is cleaned, and then move the wand lower until all the debris is removed.

Once the screens have been cleaned, remove debris from the area to prevent it from sucking back into the cleaned screen.

If cleaning the screens in place is not a viable option, screens can be removed and cleaned elsewhere. Prior to removing the screen(s), mark the location & orientation to allow for proper alignment of the grommets QR clips when rehangng. With the screens at ground level, they should be hung or draped in such a fashion to allow cleaning from the back.



For questions or concerns
contact AFNW Services, LLC

888-968-2369