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QUANICS PRESSURE FILTERS AND ASSEMBLY PACKAGES
OPERATION AND MAINTENANCE

Quanics Pressure Filters are designed to be installed on the pump discharge of septic tank effluent pump (STEP) systems, and to provide a final layer of protection to a decentralized system. A common application would be to filter the effluent after it is pumped to an advanced wastewater treatment system. While gravity filters may be included elsewhere in a decentralized system, this filter traps suspended solids that might have passed through the pump and keeps them from going to the treatment system.

The heart of the filter package is a commercial pressure filter. It filters to a level of 1/20 inch, which is slightly better than the industry standard 1/16 inch filtration that is achieved by better gravity filters. It has long been know that excessive solids in advanced treatment systems, especially media filters, can cause premature clogging of the media. A pressure filter on the pump discharge can significantly reduce the amount of solids escaping the tank. A pressure filter is also highly recommended for use on pressure dosed soil application systems such as low pressure pipe and mounds. In these systems, the soil is the treatment media and it can be clogged just like proprietary media filters.

There is little in the way of maintenance on these filters except routine inspection. Sometimes these inspections turn up a filter that is clogged after a period of use. If this occurs, the filter is very simply cleaned by unscrewing the clear basin that surrounds the filter screen element. When this is done, the screen element can be pulled out and rinsed off before it is replaced in the filter body.

The inspection steps are as follows:

1. While the filter is operating, note the reading on the pressure gauge mounted on top of the pressure filter body. Record this reading and use it as a benchmark for the next inspection. If the next inspection shows a drastically different reading in pressure, the filter may be clogged. If so, clean the screen element as noted above.
2. Also, while the filter is operating, note the flow out of the drain port cap. There is a small hole drilled in the cap to allow the filtered solids to drain back into the tank. If there is no flow or a slow flow out of this hole, it will need to be cleaned. CAUTION: If you have to remove this cap to clean it, be very careful you do not drop it into the vault. It is located on the bottom of the filter assembly and might be slippery. The safest way to clean it would be to unscrew the clear basin and remove the part from the tank before the cap was removed and cleaned.

A common replacement part might be the pressure gauge. If it is not working, it simply unscrews from the pressure filter body. Replacement gauges are available. If the entire pressure filter assembly has to be replaced, please note, and possibly photograph the configuration so a new assembly can be installed using the quick disconnects.