

Polonite Pre-packed filters – info to House Owners

Polonite® is the natural choice for everyone wanting an environmental friendly, efficient as well as robust solution for retaining phosphorus. A minimum of maintenance is required.

Pre-cleaned water flows through the filter media propelled by natural gravity only, no electricity or mechanical devices are required. The filter will therefore work autonomously, but will eventually be saturated. At such time, the filter shall be replaced by a new one, and the saturated filter shall be recycled back to farmlands where its content of lime and phosphorus will be valuable resources. Depending on the loading of the filter the time to saturation may vary; indicatively, replacement of a 500 kg filter used for one household will normally be required after 2 – 4 years if the cumulative retention requirement is set at 90%. In practical terms, the old filter bag is lifted out of the well (tank) and a new one is fitted.

Polonite® pre-packed filter bags are easy to connect 'plug & play'. There are three different sizes; 370, 500 and 1,000 kg respectively. The 500 kg filter comes in two different versions (different height vs. diameter ratios). Make sure to note which filter type is installed at your specific plant, and keep this information together with other treatment plant related documents – this will greatly facilitate when it will be time to order a filter replacement.

How can I know when a filter replacement is due?

Measure the pH in water that has flown through the filter. In filters with a yellow hose, this shall be done at the free water surface at the top of the filter bag. This will be done at regular service calls if you have signed up for a maintenance contract. Otherwise you can easily do it yourself using a high resolution pH indicator paper (normally supplied by the supplier of your treatment plant). We recommend to make the first measurement after 1 year of operation, and thereafter every six months. If the pH is 9 or higher, you can rest assured that the filter is fully effective. If pH is below 9, the function may still be OK, but in this case a water sample should be taken and sent for analysis (something your treatment plant supplier will normally carry out). Otherwise you may check with the environmental protection office in your municipality. There are no technical requirements to employ an accredited lab.

If the water surface is not easily reachable, the pH-indicator can be fit on e.g. a broom stick.

How to get a new filter?

Please get in contact with your closest Polonite®-partner, the supplier of your treatment plant or contact us directly at Polonite Nordic.

You are always welcome to get in contact with us for any questions you might have.