

Instructions for Regenerating Filter Cartridges

BECO PROTECT KT

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Filter Cartridge Design

The filter cartridges of the BECO PROTECT KT product line are comprised of 4 to 6 layers of monofilament filter fleece with matching clarification strengths. The fleeces are wrapped radially around an inner support body. The filter package is enclosed in a sturdy grid. The filter package is thermally welded to the support body. All materials except for the O-rings are made of polypropylene.

Intended Purpose

Due to its separating characteristics, the BECO PROTECT KT is used preferably for pre-filtration of wine or as a pre-filter to protect extend the service life of membrane filter cartridges.

Advantages

The BECO PROTECT KT has a high dirt holding capacity. Due to its outstanding mechanical, chemical, and thermal stability, the filter candle can be backwashed at room temperature at a maximum of 3 bars and 2 bars at a temperature of approx. 80 °C .

Regeneration

The BECO PROTECT KT should always be flushed out as follows after each filtration:

- ▶ Drain the candle housing.
- ▶ Flush out with cold water **in the opposite direction of filtration** for at least 2 minutes. If possible, the **flow rate** should be **one and a half times** the **previous filtration output**. Set the counterpressure to 0.5 bars.
- ▶ Flush out with hot water (80 °C) **in the opposite direction of filtration** for at least 5 minutes. The **flow rate** should be **one and a half times** the **previous filtration output** in this case as well. Then circulate for 15 to 30 minutes. Set the counterpressure to 0.5 bars. Let the hot water stand in the housing overnight and flush out again with hot water for approx. 2 minutes the next morning.

- ▶ Due to the chemical stability of the filter cartridge, cleaning is possible with a 1 – 2 % NaOH solution at 60 °C. In order to increase the service life, we recommend this kind of cleaning when the effectiveness of the daily regeneration diminishes. For this reason, watch the initial pressure every day at the beginning of the filtration process.

Note

Best regeneration results are achieved by flushing the filter cartridge in the **opposite direction of filtration**. If possible, the **flow rate** should be **one and a half times** the **filtration output**. The effectiveness can be increased further by letting the filter cartridge stand **filled with hot water overnight** after flushing out as indicated above and backflushing the cartridge again with hot water for approx. 2 minutes the following day.

Ensure that the water used for flushing is free of rust, lime, and other impurities.

BEGEROW recommends filtering the water used for flushing as a precautionary measure. Match the fineness of the filter to the filter to be flushed out.

Also filter any steam used to sterilize the filter cartridges. Metal filter cartridges with a clarifying strength of 10 µm are suitable for this purpose.

We will be glad to answer any further questions you might have. You can call either the area sales manager in your area or contact the application technology department at BEGEROW directly at: +49 6704 204-0.

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