

■ General overhaul with a new PTFE coating

Herding® sinter-plate filters are comprised of a porous, sintered main body made of polyethylene (PE) with a coating of polytetrafluorethylene (PTFE) in the surface pores. The latter ensure that the dust is separated directly at the surface. As is the case with all filter systems, the filter surface can become damaged if the filter is used with types of dust or in processes for which it is not intended. Conventional filter systems such as cartridges, hoses, bags and rigid bodies with membranes on the surface can then be damaged beyond repair. Only Herding® sinter-plate filters are capable, at least in many cases, of being re-coated so that the main body can be re-used again:

The Herding® sinter-plate filter can be regenerated!

■ Requirements

- ▶ A written order for the regeneration of the Herding® sinter-plate filter must be sent to Herding GmbH in Amberg
- ▶ The Herding® sinter-plate filter must be delivered in a clean state after having been brushed clean. There must be no dust on the plate surface
- ▶ To prevent any damage in transit, the Herding® sinter-plate filter must be packed in accordance with the instructions set out in the Operating and Maintenance Instructions
- ▶ As a general rule the operator is responsible for having the Herding® sinter-plate filter delivered to the premises of Herding GmbH in Amberg. However, we can arrange to have it picked up on request if required.
- ▶ According to work safety and environmental protection regulations, Herding GmbH is not permitted to start any work before the safety data sheet or the completed safety declaration for the dust has been provided
- ▶ Herding® sinter-plate filters are not permitted to be contaminated with any environmentally hazardous toxic substances



■ Restrictions

- ▶ Given the diversity of causes of damage, not all Herding® sinter-plate filters are capable of being regenerated. The operator should specify at the outset what should be done with filter elements which cannot be regenerated:

either “Filling up with new Herding® sinter-plate filters”
or “Delivery of a complete new set of Herding® sinter-plate filters”

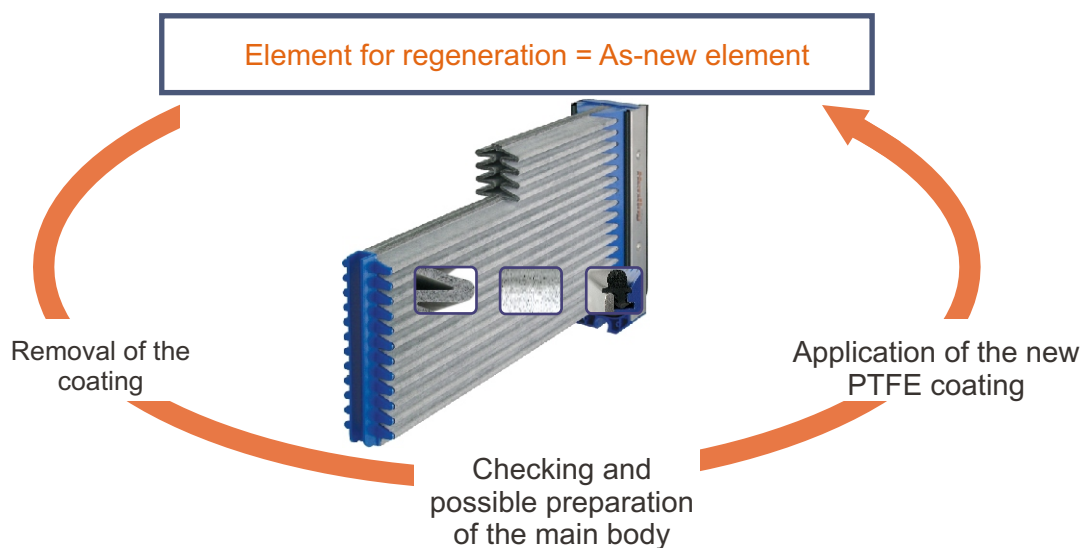
If the operator has provided information to confirm that up to xx Herding® sinter-plate filters should be replaced by new ones, this will speed up the entire regeneration process and reduce delivery times

- ▶ The extent to which the Herding® sinter-plate filters can be regenerated can only be established when the main body has been examined
- ▶ For the handling of special element grades such as Grade K, for example, please consult our technical personnel

Process

The regeneration process involves a number of stages:

- ▶ Removal of the damaged PTFE coating
- ▶ Drying of the main body
- ▶ Inspection of the main body (visual inspection and differential pressure measurement)
- ▶ Analysis of the inspection results
- ▶ Repair of any small areas of mechanical damage
- ▶ Application of a new PTFE coating by means of a special spray-and-brush process
- ▶ Assembly of the main body (fitting of new metal support panels if required)
- ▶ Fitting of new seals
- ▶ Inspection and registration of the Herding® sinter-plate filters in the 100% final inspection; checking of the differential pressure and the quality of the coating, plus measurement of the surface resistance and leakage resistance on anti-static versions
- ▶ Certification of the Herding® sinter-plate filter for re-use



Warranty

For all regenerated elements Herding GmbH Filtertechnik assumes that the Herding® sinter-plate filters have the same characteristics as new filters. Depending on the specific type of dust and product involved, it can be expected that there will be a slightly greater loss of pressure. The warranty is for two years in respect of mechanical strength.

Time required

Experience has shown that questions will be raised about the points set out in "Requirements". Only after all the documentation has been provided by the operator (purchase order, safety data sheet and the safety declaration) the regeneration process can be started.

The various stages of the regeneration process can only be carried out in the fixed sequence. In these conditions we estimate a lead time of between eight and ten weeks.

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