

Next to the already mentioned advantages of the HERDING filter elements please consider some more benefits of our filtration technique for you:

- + **The HERDING sinter plate filter elements feature a PTFE-coating that is embedded into the matrix of the rigid body. This leads to a consequent surface filtration and an effective protection against damage and / or penetrations into the filter media.**

*Filter media with membranes have the membrane fixed only at selective points. This leads to a high sensitivity of the filter media and therefore the risks as*

- *the membrane getting loose*
- *sub-surface migration of dust*
- *damaging the filter elements during mounting and dismounting*

*Textile filter media face wear tear and tear created by the movement of the filter media (suction / jet-pulse). As a consequence:*

- *reduced life time*
- *unexpected tearing of the filter media*
- *emission peaks during jet-pulse*
- *deposition of dust in the pores of the filter media (→ increasing pressure drop)*
- *strong mechanical acceleration of the dust during jet-pulse cleaning, throwing the dust*

- + **The solenoid valves of the HERDING filter units are located outside of the filter unit. Therefore it is possible to check and maintain them on-line during the operation.**  
*In other filter units the valves are located in the exhaust air stream. So access to them is only possible after the filter unit is switched off.*

- + **The service doors of the HERDING filter units are designed as displacement and have a very high stiffness.**  
*Other designs can hold the danger of instability during the cleaning impulse and therefore dust escaping out of the raw gas chamber.*

- + **HERDING filter units feature high-quality control cabinets with a digital microprocessor based control unit. This is designed according to HERDING's specifications and can be adjusted to requirements of the process.**

**As a standard HERDING control cabinets contain for example**

- **$\Delta p$ -display**
- **$\Delta p$ -controlled cleaning (optionally)**
- **operating hours counter**
- **status and alarm messages**
- **connection for various inputs and outputs**

*Usually these reasonable features are not included in the standard of other filter unit suppliers and high price adders are asked for them.*

- + **After opening the maintenance doors of the HERDING filter units you have a view onto the lanes between the filter elements. So it is possible to make a check of the important items very quick.**

*Many other systems offer no view on the space between the filter elements as they are often installed transversal to the line of sight.*

- + **The mounting and dismounting of the HERDING filter elements can be done comfortably by fastening/ unfastening only one screw.**

*In opposite there is a number of systems which have the filter elements installed transversal to the line of sight. The efforts of mounting and dismounting of the filter elements are much bigger for these designs.*

<b>Herding®-Sinter plate filter elements</b>	<b>Your advantage</b>
Pure surface filtration due to PTFE embedded in the PE-matrix and non-flexible filter media	No penetration and deposition of dust particles in pores
Rigid body design	<p>No wear and tear on the media due to movement (contraction during suction, expansion during cleaning)</p> <p>Long operational life time up to 10 years possible</p> <p>Low maintenance costs</p> <p>Filter elements can not fall down into the silo due to screwed mounting and no breaking of elements</p> <p>No tearing of element possible</p>
Cleaning during suction (on-line)	Constant operating conditions due to constant $\Delta p$ during whole lifetime
High relative filtration area per element	Small footprint area of filter units and low number of elements
Two screw mounting system and lower number of elements	Quick change of filter elements without the need for extra equipment (crane)
Effective cleaning of the elements with Jet-pulse operating at 4,5 bar with high-performance valves	Low compressed air consumption
Dust concentration in clean gas < 1 mg/m <sup>3</sup>	Safety also for future requirements
Perfectly suited for product recovery as medium is free of lints or fibres that could get loose	no danger of textile getting loose and contaminating the product