

HERDING HSLFlex and DELTAFlex FILTRATION TECHNOLOGY



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HSLFlex and DELTAFlex – the flexible filter unit series designed for industrial-scale applications

HSLFlex and DELTAFlex – proven advantages in a new flexible filter unit design for large air flows, compact and space saving.

The filter units of the FLEX-series are equipped with vertically mounted sinter-plate filter elements. Depending on the application the Herding® DELTA, DELTA² or HSL filter elements are chosen for installation.

The safety measures and design will be based on ATEX-safety regulations and adapted to the operator's requirements.

The upper section of the filter unit consists of an acoustic hood with an integrated fan and sound insulation. The clean air can either exhaust to an opening (for connection to exhaust ductwork) or to an outlet grill.

The mid section of the filter unit contains the raw gas inlet, the filter elements and an integrated reverse-jet-pulse cleaning system with pressure manifold and quick-release valves. All components subject to maintenance can be easily accessed from the front side.

The lower section with the dust discharge may be configured according to the application at hand and customers' requirement(s). In its simplest form the hopper is equipped with a dust bin. Optional discharge systems, such as rotary air locks, screw conveyors, etc. are also available.



DELTAflex – modular system for 320,000 m³/h air flow



Herding® filter unit HSLFlex

Choice is dependent on application



DELTA filter element



DELTA² filter element



HSL filter element

The filter unit may be optionally equipped with the following:

- Electrical grounding of the filter unit
- Constructive explosion protection by pressure relief
- Constructive explosion protection by explosion suppression
- Integrated backpack – spark arrester
- Herding® MultiCoater to handle adhesive products
- Antistatic filter elements
- Micro-processor control board (MP12)
- Customer specified discharge systems
- Fire protection systems
- Pre-separator systems to handle very high product loadings
- First Rinse system for SafeChange of the filter elements

Typical Applications – HSLFlex and DELTAFlex series

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The HSLFlex and DELTAFlex filter unit series are suitable for the separation respectively the product recovery of very fine, adhesive or even abrasive dusts.

Powder Coating:

Electro-static powder coating requires a constant, laminar air flow to ensure optimal coating efficiency. Herding® units meet this need. In addition, the inherent non-shedding nature of the Herding® filter element avoids contamination of the recovered overspray product.

Steel Pipe Production:

Production of seamless steel pipe demands maximum efficiency from the whole manufacturing process, including the filtration system. To ensure a high quality pipe surface, the filter unit must effectively extract the mixtures of steam, metal oxides and graphite, generated during pipe forming, rolling und gauging.

Extraction of Welding Fumes:

Effective capture and filtration of fumes, generated during welding of partly oily or greasy sheet metal, allows in most cases for return of the cleaned gas to the work area.

If especially sticky dusts are generated, a precoating material can be added to form a protective layer on the surface of the Herding® rigid body filter elements. For the automatic injection of the precoating material the Herding® MultiCoater is available.

Toner Dusts:

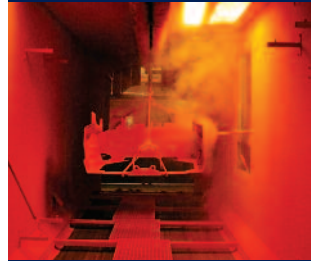
Because of its special non-agglomerating properties, production and aspiration of toner powder for colour cartridges demands maximum efficiency from separation systems. Product recovery of these very fine dusts is a decisive economic aspect when using the Herding® filter units in this industrial area.

The design of filter units for this production area demands consideration of related safety standards (Ex-zone classification) and the ATEX-regulations. In case of explosion risk, the Herding® filter unit can be equipped with protection measurements like a rupture disk or an explosion discharge duct. As an alternative, the unit can be equipped with an explosion suppression system which uses injection of dry extinguishing powder.

More applications for the HSLFlex and DELTAFlex can be found in the following industries:

Automotive, Chemical, Cement, Food, Glass, Metal Manufacture and Fabrication, Pharmaceutical, Pigment Production, Plastics, Processing, Recycling, Solar Industry, Stone, Wet Paint Finishing, Toner, etc.

Please feel free to contact us to discuss your special application!



ATEX

Herding® PRODUCT AND SERVICE RANGE – HSLFlex and DELTAFlex

The filter unit series by

HERDING is a concept of which the idea of a compact and flexible design was consequently converted into reality.

The modular version of the HSLFlex / DELTAFlex can handle air flows up to 400,000 m³/h. The DELTA-, DELTA²- and HSL filter elements are vertically installed into the HSLFlex/DELTAflex filter unit design. Depending on requirements and filter unit design, the filter elements can be arranged in a single row, and depending on the filter element selection, into two rows and even up to three rows.

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FILTERTECHNIK

Complete
System Solutions
for Dust Extraction

Product
Recovery Units

Process Filters

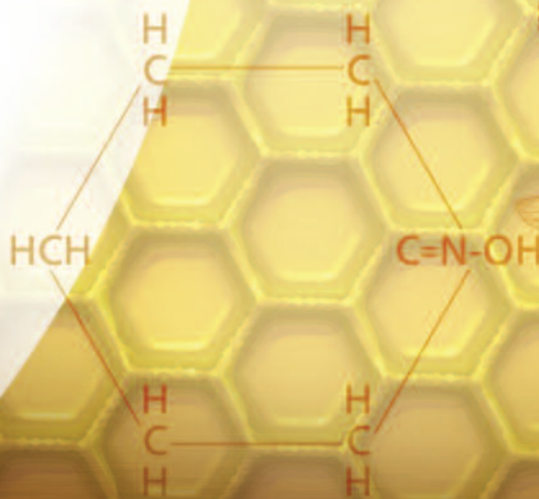
Insert
and Venting Filters

Regeneration of Used
Filter Elements

Upgrades
on Existing Units,
Retrofits

Unit Safety:
Fire
and Explosion Protection

Custom Made
Service Packages:
Measurements / Consultation /
Analyses / PM



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