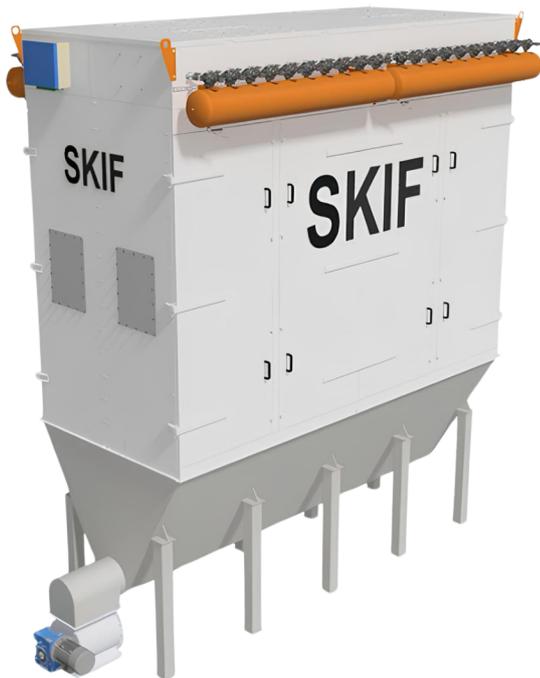


Hdi-f™



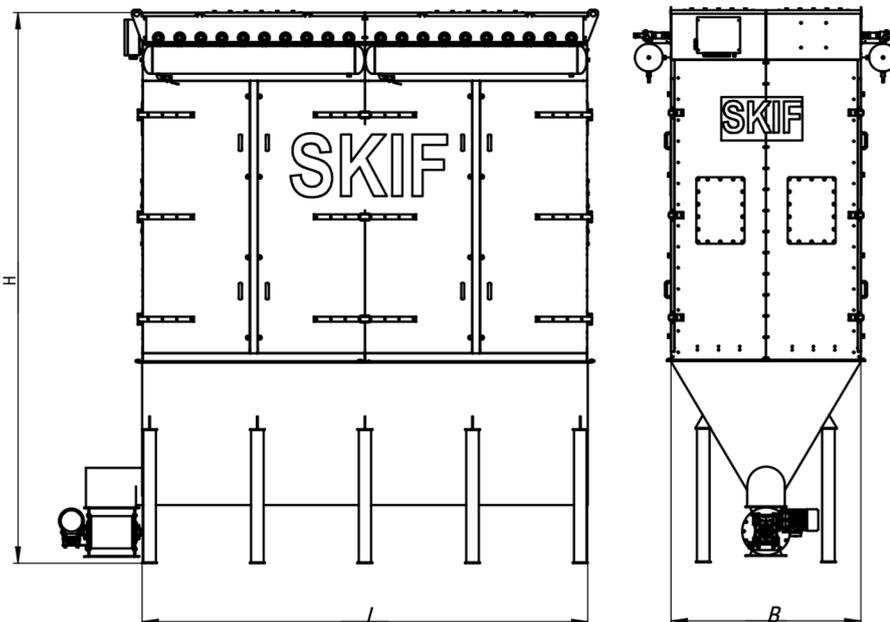
- SKIF HDI-F™ is an industrial bag filtration system designed for dry dust removal in centralized aspiration and technological dedusting systems operating under high dust loads and demanding industrial conditions.
- Dust-laden air enters the filter housing, where solid particles are captured on the surface of high-efficiency filter sleeves. The purified air is discharged from the system, while the collected dust is periodically removed by a pulse-jet compressed air regeneration system and discharged into the hopper.
- The filter is designed for continuous operation in heavy industrial environments, ensuring stable performance at high dust concentrations and under abrasive dust conditions.
- Optimized filtration parameters and controlled pulse regeneration maintain stable pressure drop, reliable airflow performance, and long-term operational efficiency.
- The robust carbon steel housing, integrated dust collection hopper, and maintenance access doors provide durability, ease of servicing, and extended service life of the filtration elements.
- The system is engineered in accordance with applicable industrial safety and environmental requirements and can be configured according to required airflow capacity, dust characteristics, temperature conditions, and site-specific operating parameters.

Typical configuration and dimensional layout of SKIF Hdi-f™ centralized industrial filtration systems

Compliance with EU directives:

- 2006/42/EC – Machinery Directive
- 2014/35/EU – Low Voltage Directive
- EN ISO 13849 – Functional Safety
- 2014/34/EU (ATEX) – Explosion Protection
- Active and passive explosion suppression systems
- IED 2.0 – Directive (EU) 2024/1785

Parameter	Standard value	Optional / On request	Notes
Filtration area	80–360 m <sup>2</sup>	—	Model dependent
Residual dust level at outlet	≤ 5 mg/m <sup>3</sup>	10 / 15 / 20 mg/m <sup>3</sup>	Depending on dust characteristics
Dust type / material	Industrial dry dust (abrasive, mineral, grain, wood)	Aggressive / food-grade	Specified per project
Execution	Standard	ATEX Category	Directive 2014/34/EU



Engineering notes:

- Designed for centralized industrial operation
- Suitable for high dust concentrations
- Optimized filtration velocity and stable pressure drop
- Configurable for ATEX classified zones

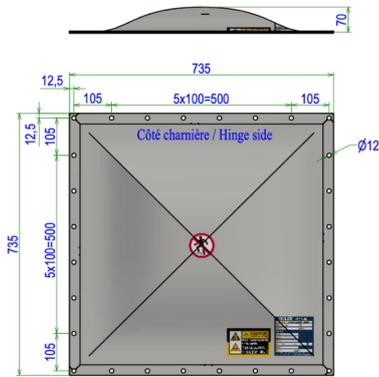
Centrifugal fans tailored for Hdi-f™ centralized industrial filtration systems

Depending on the required airflow rate, pressure, and dust characteristics, the selection of the centrifugal fan is adapted to the specific needs of your application.

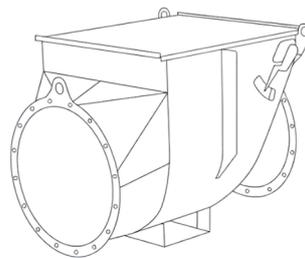


Parameter	Value	Notes
Fan type	Centrifugal	Integrated or remote configuration
Typical airflow range	Model-dependent	Based on filtration area and velocity
Pressure class	Low to high (model-dependent)	Based on system resistance
Execution	Standard / ATEX	Directive 2014/34/EU
Application	Industrial dry dust (abrasive, mineral, grain, wood)	Specified per project

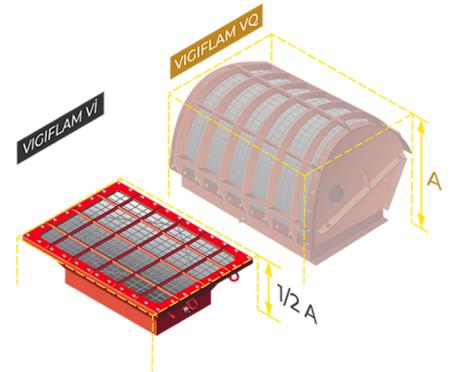
Explosion Safety Solutions Integrated into SKIF Aspiration Systems  
 Integrated explosion protection solutions for enhanced safety and ATEX compliance.



Explosion Vent Panels



Explosion Isolation Valves



Flameless Venting Device

- Designed for controlled explosion pressure relief in accordance with EN 14491, suitable for dust applications up to St 3.
- Provides mechanical isolation of explosion propagation in duct systems for dust explosions up to Kst 250 bar·m/s.
- Enables indoor explosion venting with integrated flame arresting technology for safe pressure release without external flame discharge.

