

Cas-f™



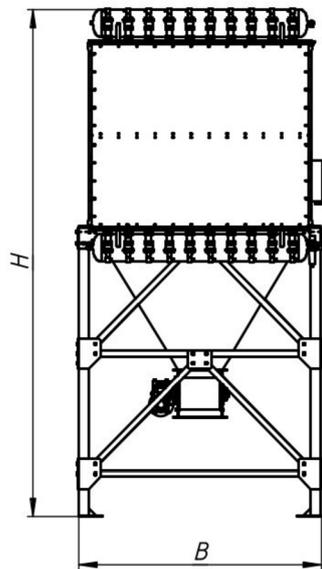
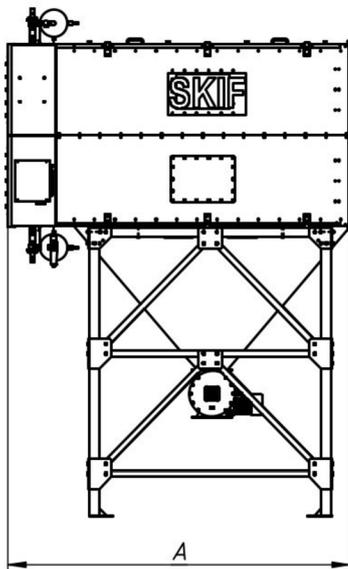
- SKIF Cas-f™ is a modular filtration system designed for efficient air cleaning in installations with limited installation space and high airflow demand.
- The system ensures stable operation under high dust loads and continuous industrial processes, providing reliable filtration performance and easy integration into existing technological lines.
- Modular filter elements enable flexible configuration depending on required capacity and installation layout.
- Optimized aerodynamic design reduces pressure losses and minimizes fan load, contributing to improved energy efficiency of the overall aspiration system.
- The system is fully compliant with current EU directives on machinery safety, explosion protection and industrial emissions, including IED 2.0.

Typical configuration and dimensional layout of SKIF Cas-f™ for compact industrial aspiration 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	30–360 m ²	—	Model dependent (Cas-f 20-240)
Residual dust level at outlet	≤ 5 mg/m ³	10 / 15 / 20 mg/m ³	Depending on dust characteristics
Dust type / material	Grain, wood, mineral dusts	Aggressive / food-grade	Specified per project
Execution	Standard	ATEX Category	Directive 2014/34/EU



Engineering notes:

- Designed for localized industrial operation
- Suitable for high dust concentrations
- Stable pressure drop due to optimized filtration velocity
- Configurable for ATEX classified zones

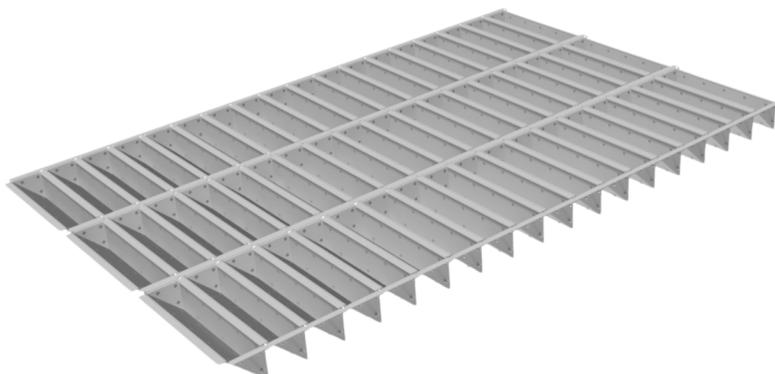
Centrifugal fans tailored for SKIF Cas-f™ cartridge filtration systems

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 medium	Localized extraction systems
Execution	Standard / ATEX	Directive 2014/34/EU
Application	Grain, wood, mineral dust	Specified per project

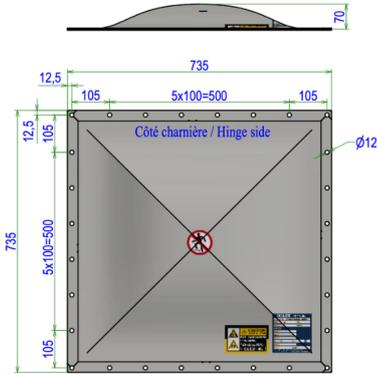
To further increase aspiration efficiency and reduce uncontrolled air ingress, SKIF systems can be equipped with localized dust suppression elements.



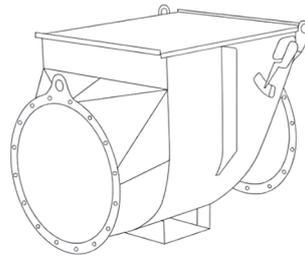
SKIF Flex-Flap

- Reduces uncontrolled air ingress
- Stabilizes aspiration performance
- Decreases required airflow volume
- Lowers fan load and energy consumption

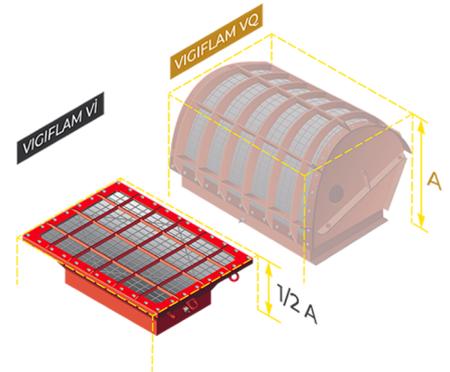
Explosion Safety Solutions Integrated into SKIF Aspiration Systems
 Integrated explosion protection solutions for enhanced safety and ATEX compliance.



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.

