

General Information

The [Jetfilter](#) is an alternative to central dust collectors for venting of gravimetric feeders by filtering the dust during refill, venting clean air to the environment and returning the dust to the process.

The JetFilter has the following main components: A cylindrical stainless steel body with an internal filter cartridge, a compressed air tank, solenoid valve and clamping rings.

The JetFilter is a low maintenance filter for dusty air that is displaced during the refill cycle of gravimetric feeders. The displaced air is filtered through a compact pleated cartridge with a large effective area. This allows for very efficient dust removal with a low pressure drop. The clean filtered air is vented to the environment. After each refill cycle, the filter is cleaned by a jet of compressed air and the dusty ingredient is returned to the process without product loss.

Depending on the ingredient, flow velocity and the air volume to be filtered, two filters may be used parallel. When used for loss-in-weight feeders, the filters are cleaned at the end of the feeder refill cycle during the material stabilization time minimizing disruption of the gravimetric cycle.

The ingredient contact parts are made of stainless steel 1.4301 (304) and the filter media complies with FDA and GMP regulations.

All filters meet CE directives.



Model Specification

JFxxx	JetFilter
JFxxx	Nominal Width (mm)



Example: FW40 with JF150 A0.3

Control Modules

The JetFilter is controlled by the feeder operating system.

Technical Drawings and Dimensions

Model	Filter surface			
	0.3 m ² (3.23 ft ²)	1 m ² (10.76 ft ²)	1.5 m ² (16.15 ft ²)	3 m ² (32.29 ft ²)
JF150	JF150 A0.3			
JF250		JF250 A1	JF250 A1.5	
JF350				JF350 A3

Model	Filter surface	Hopper sizes and number of JetFilters required				
		≤ 100 dm ³ (≤ 3.5 cuft)	≤ 200 dm ³ (≤ 7.1 cuft)	≤ 300 dm ³ (≤ 10.6 cuft)	≤ 600 dm ³ (≤ 21.2 cuft)	≤ 1000 dm ³ (≤ 35.3 cuft)
JF150 A0.3	0.3 m ² (3.23 ft ²)	1	1-2			
JF250 A1	1 m ² (10.76 ft ²)		1	1-2		
JF250 A1.5	1.5 m ² (16.15 ft ²)			1	1-2	
JF350 A3	3 m ² (32.29 ft ²)				1	1-2

Technical Specifications

Ambient temperature:	0°C to +45°C (32°F to 113°F)
Product temperature:	up to +80°C * (176 °F)
Humidity of the air:	up to 85% without condensation
Media:	Air or Inert Gas
Media requirements:	Clean dry compressed air/gas
Cleaning pressure:	2-4 bar (29-58 psi)
max. pressure:	4 bar (58 psi)
Steel parts:	1.4301
Filter material:	Polyester fleece, GMP and FDA approved
Power supply:	AC 230/400 V (110VAC/460VAC) – 50Hz
Noise level:	78.5 dB(A) in accordance with DIN 45635
* other values upon request	

Options

- High temperature versions up to +190°C (347 °F)
- Explosion-proof per 2014/34/EU (ATEX) or NFPA
- [Connecting cone with clamping ring](#)
- [Closed Version](#) for inert gas overlay in the bulk bin
- [Version with HEPA-Filter](#) (Filter class H13, Separation efficiency 99,95%)