

Brabender JetFilters for filtering of escaping air streams displaced during metering feeder refills

Brabender JetFilters are low maintenance air filtering systems featuring fully automatic self-cleaning by compressed air pulses and are applied as dust separators for air streams escaping from continuous or discontinuous bulk ingredient metering feeders due to air displacement during refilling.

The filter material in the filter cartridge is compactly arranged and has a huge filtering surface that is optimally exposed to the air stream for highly efficient filtering. Nevertheless the system features a low flow resistance and thus provides a constant throughput of air without differential pressure.

If, however, differential pressure is required - for instance for protective gas blanketing in the bulk ingredient hopper - closed ver-

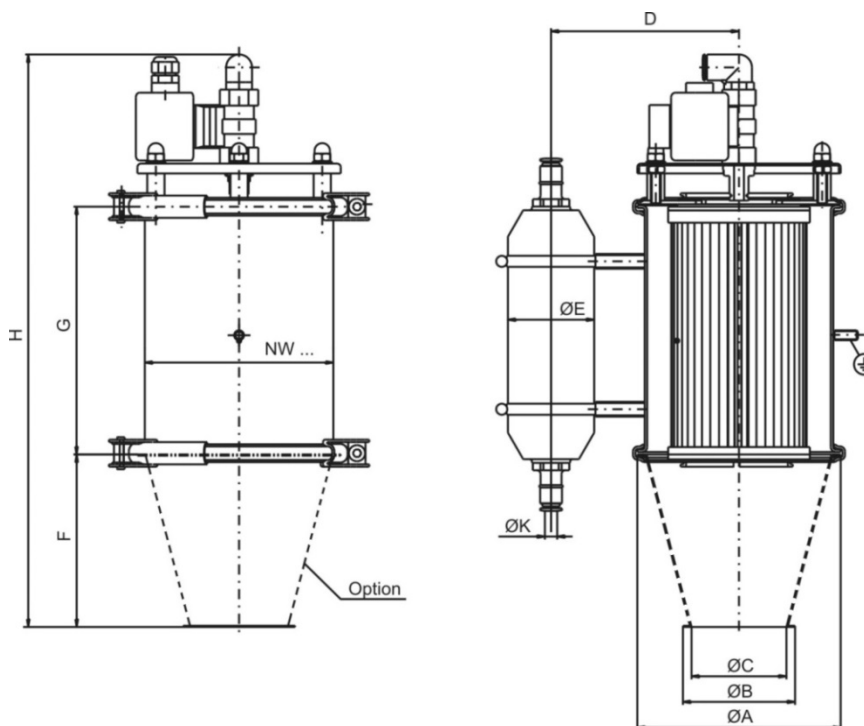
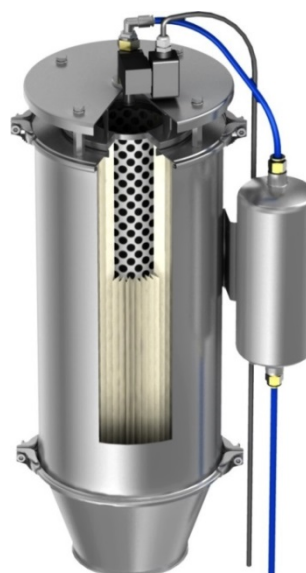
sions are optionally available.

Depending on the quantity of air to be filtered and on its respective flow velocity, two filters may be used parallelly.

Filter cleaning is effected fully automatically by compressed air pulses. The raw material caught in the filter is fed back into the metering feeder and thus back into the production process.

When used for loss-in-weight feeders, the filters are cleaned off at the end of the feeder refill cycle within the material stabilisation period so that gravimetric operation is not interfered with.

Ingredient contact parts are made of stainless steel 1.4301 (304) and of filter media complying with FDA and GMP regulations. All filters conform to CE directives.



	A	B	C	D	E	F	G	H	K	Weight
Model	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	mm (in)	kg (lb)
NW 150	165 (6.5)	91 (3.6)	80 (3.1)	155 (6.1)	70 (2.8)	145 (5.7)	200 (7.9)	470 (18.5)	10 (0.4)	6 (13.2)
NW 250	265 (10.4)	165 (6.5)	150 (5.9)	205 (8.1)	110 (4.3)	150 (5.9)	500 (19.7)	810 (31.9)	12 (0.5)	12 (26.5)
NW 350	365 (14.4)	265 (10.4)	250 (9.8)	255 (10.0)	110 (4.3)	200 (7.9)	500 (19.7)	860 (33.9)	12 (0.5)	14 (30.9)

Technical Data

JetFilter		Hopper sizes and number of JetFilters required				
Model	Filter surface	≤ 100 dm ³ (≤ 3.5 ft ³)	≤ 200 dm ³ (≤ 7.1 ft ³)	≤ 300 dm ³ (≤ 10.6 ft ³)	≤ 600 dm ³ (≤ 21.2 ft ³)	≤ 1000 dm ³ (≤ 35.3 ft ³)
NW 150	0.3 m ² (3.2 ft ²)	1	1-2			
NW 250	1.5 m ² (16.1 ft ²)			1	1-2	
NW 350	3.0 m ² (32.3 ft ²)				1	1-2

Components

- Cylindrical base unit
- Filter cartridge
- Filter mounted pressure reservoir (max. connected pressure 4 bar)
- Control electronics (power supply 230 V, 50 Hz)
- Clamping rings

Materials

- Ingredient contact steel parts are made of stainless steel 1.4301 (304), peak to valley height approx. 3 µm
- Filter material is made of polyester fleece
 - compliant to FDA and GMP regulations
 - suitable for grain sizes of 0.5 µm and larger
 - compliant to dust class M = approved for non-carcinogenic dusts with workplace concentrations > 0.1 mg/m³
 - maximum transmittance 0.1 %

Field of Application

- Filtering of air streams escaping due to air displacement during bulk ingredient metering feeder refilling
- Suitable for ingredients with the following characteristics:
 - flowable to bridging
 - non-adhesive
 - no moisture
 - min. bulk density 0.1 kg/dm³ (6.2 lb/ft³)

- Environmental conditions:
0-45° C (32-113° F), up to 85 % humidity without condensation

Cleaning

- Fully automatic cleaning by compressed air pulses
- Number of compressed air pulses can be adjusted (3, 5 or 7)
- Raw materials caught in the filter are fed back into the production process

Explosion Proofing

- Suitable for application in explosion hazardous area 20 or 1 internal/ explosion hazardous area 1 or 21 external (II 1D c 140° or 2G c IIA T3/ 2G c IIA T3 or II 2D c 140°)

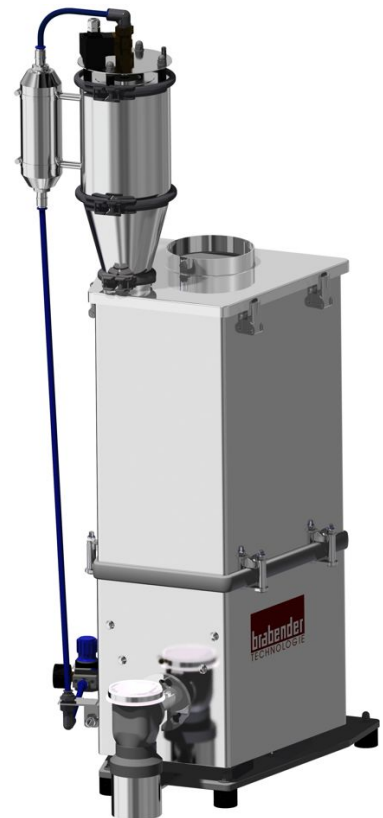
Options

- Closed design (for instance required for protective gas blanketing in the bulk ingredient hopper)
- Connection cone with clamping ring

Application example: Brabender FlexWall®Plus feeder with Brabender JetFilter NW 150 ▶

Mounting

- Typical position on top of a lip flanged vent pipe in the feeder hopper cover (fastened by a clamping ring)



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