

Brabender JetFilter for filtering of escaping air streams displaced during metering feeder refilling

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 and discontinuous bulk ingredient metering feeders due to air displacement during refilling.

The filter material in the filter cartridge, compactly arranged though offering a huge filtering surface, ensures optimum surface exposure to the air stream and thus highly efficient filtering. At the same time the system features low flow resistance and thus constant air throughput avoiding differential pressure.

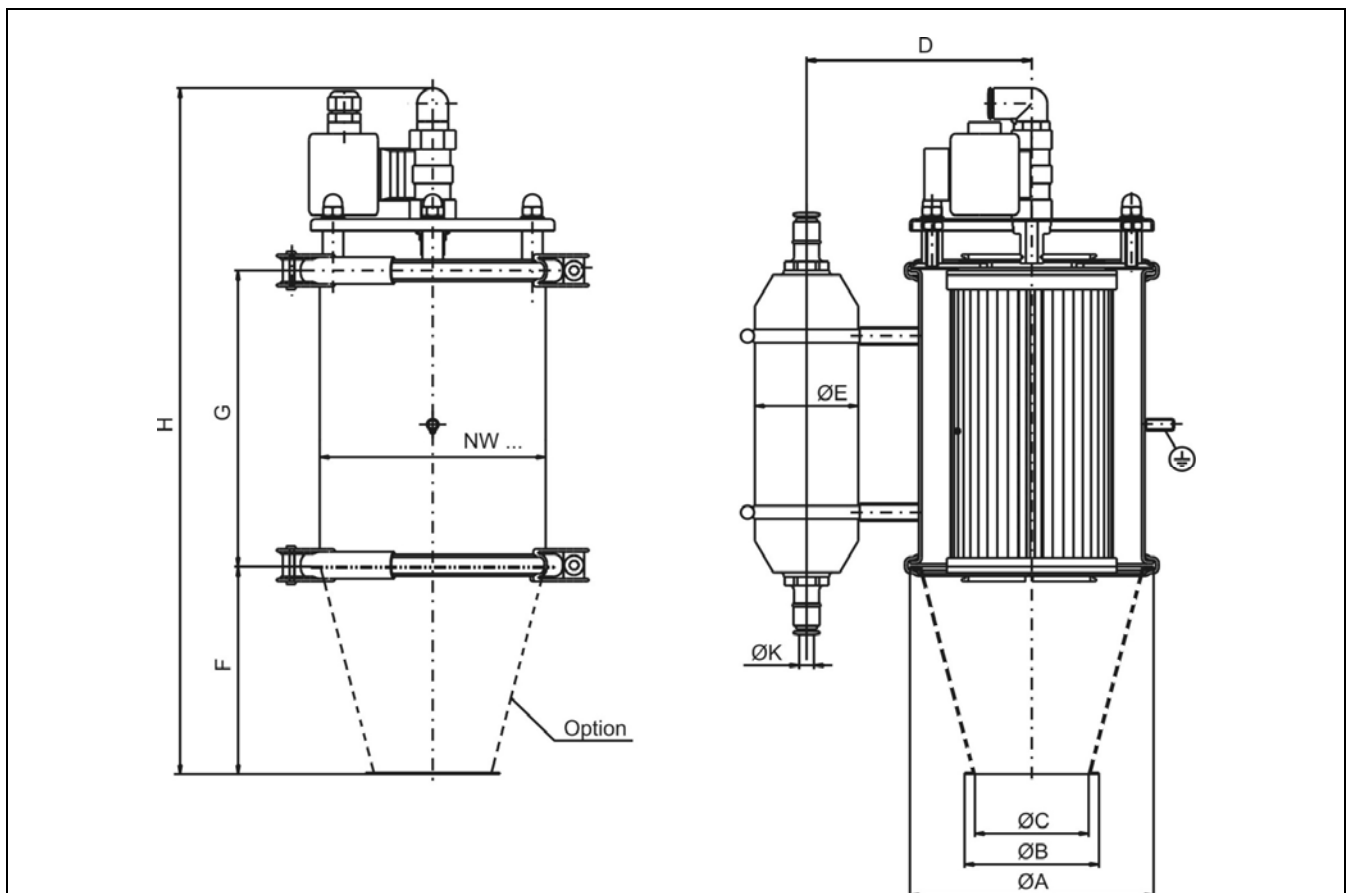
If, however, differential pressure is required - for instance in case of protective gas blanketing in the bulk ingredient hopper- closed versions are optionally available.

Depending on the air volume to be filtered and on the respective flow velocity, two filters may be used parallelly. Filter cleaning is effected fully automatically by compressed air pulses while feeding the raw material caught in the filter back into the metering feeder and thus into the production process.

In case of continuous loss-in-weight feeders cleaning is effected at the end of a refill cycle within the ingredient stabilisation time without disturbing gravimetric operation.

Parts in touch with the ingredient are made of stainless steel 1.4301 (≈ AISI 304) and of filter media complying with FDA and GMP directives.

All Brabender JetFilters are explosion-proof as per ATEX II 2GD/2GD and conform to CE directives.



	A	B	C	D	E	F	G	H	K	Weight
Model	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
NW 150	165	91	80	155	70	141	200	465	10	7
NW 250	265	165	150	205	110	150	500	810	12	15
NW 350	365	265	250	255	110	200	500	860	12	25

Technical Data*

JetFilter		Hopper size				
Model	Filter surface	≤ 100 dm ³	≤ 200 dm ³	≤ 300 dm ³	≤ 600 dm ³	≤ 1000 dm ³
NW 150	0.3 m ²	1	1-2			
NW 250	1.5 m ²			1	1-2	
NW 350	3.0 m ²				1	1-2

Component Groups

- Cylindrical base unit
- Filter cartridge
- Filter-mounted pressure reservoir
- Control electronics (supply voltage 230 V, 50 Hz)
- Clamping rings

Materials

- Steel parts in touch with the ingredient made of SS 1.4301 (≈ AISI 304)
- Filter material made of polyester fleece complying with FDA and GMP directives

Field of Application

- Filtering of air streams escaping due to air displacement caused by bulk ingredient metering feeder refilling
- Suitable for flowable to bridging ingredients with the following characteristics:
 - Min. bulk density 0.1 kg/dm³
 - Grain size 5 - 5000 µm
 - Non-adhesive
 - No moisture

Cleaning

- Fully automatic cleaning by compressed air pulses
- Adjustable number of compressed air pulses (3,5 or 7)
- Refeeding of raw materials caught in the filter back into the production process

Explosion Proofing

- Standard explosion-proofing as per ATEX II 2GD/2GD

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



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