

Technical leaflet 150067 5	Date 2011-11-09
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## NFSZ3000 Filter with rotary valve or screw conveyor

The filter is designed for small and medium-sized air flows with large material concentration.



Example: NFSZ3000 3 HJ module with side and top venting for St2 dust, regenerating fans in the top and outlets for rotary valve NRSZ30.

### Specifications

Temperature	Max. 75°C	
Over pressure	Max. 800 Pa $P_{red} < 20 \text{ kPa (0,2 bar)}$	
Vacuum	Max. 500 Pa Option 5000 Pa	
Power supply:	230 / 400 V Regeneration fan – 1,1 kW (option 2,2 kW)	
Door switch	At the inspection doors in the filter hopper At one filter module door per each 5 modules At each inlet module door	
Filter element	Superbag 2000 XT15 with $\varnothing 200 \text{ mm}$ collar	
Filter area (m <sup>2</sup> ) per module	HJ: 85 m <sup>2</sup> LJ: 40 m <sup>2</sup>	HE: 42 m <sup>2</sup> LE: 20 m <sup>2</sup>

The NFSZ3000 filter with rotary valve or screw conveyor is designed for small and medium-sized air flows with large material content, for example filtration of waste-laden extracted air particularly in the wood and paper industries

The medium/large particles are separated in the filter hopper (inlet section optional) and the air is afterwards distributed to the filter bags. The collected material is discharged through the rotary valve or screw conveyor.

The filter is typically used in situations requiring non-pressurized material discharge directly into a silo, container or separate material transport system.

The filter can be supplied for either continuous operation or with a pause for cleaning of the filter bags every four hours.

The NFSZ3000 filter is suitable for explosive dusts type St1 and St2.

### Description

NFSZ3000 is a modular filter made of galvanized steel. (Size of base module: 1200 x 1200 mm).

The filter is self-supporting; it has telescopic supporting legs and is suitable for outdoor locations.

Each module of the module filter construction is fitted with a combined inspection and explosion relief door. Side venting is standard. (Option – top venting or venting type UP). See separate technical leaflet "FILTERTOP".

The filter is available in two widths, type E – one module wide (1200 mm) and type J – two modules wide (2400 mm).

Inlet of air in hopper or via inlet module.

A regeneration fan can be mounted for reverse air cleaning of the filter bags according to a pre-set sequence. Positioning of the regeneration fans - optional on the roof or on the side - see separate leaflet "FILTERTOP".

Superbag 2000 antistatic polyester filter bags are standard (25 per module).

### Marking

The NFSZ3000 filter body for dust type St1 for installation in non-zone are marked:

**CE 1180 Ex II 1(3)/- D St1**

For dust type St1 and St2, the filter body is marked:

**CE 1180 Ex II 1(3)/- D St2**

The marking is based on product certificate Baseefa 06 ATEX 0068X.

The explosion relief doors are marked:

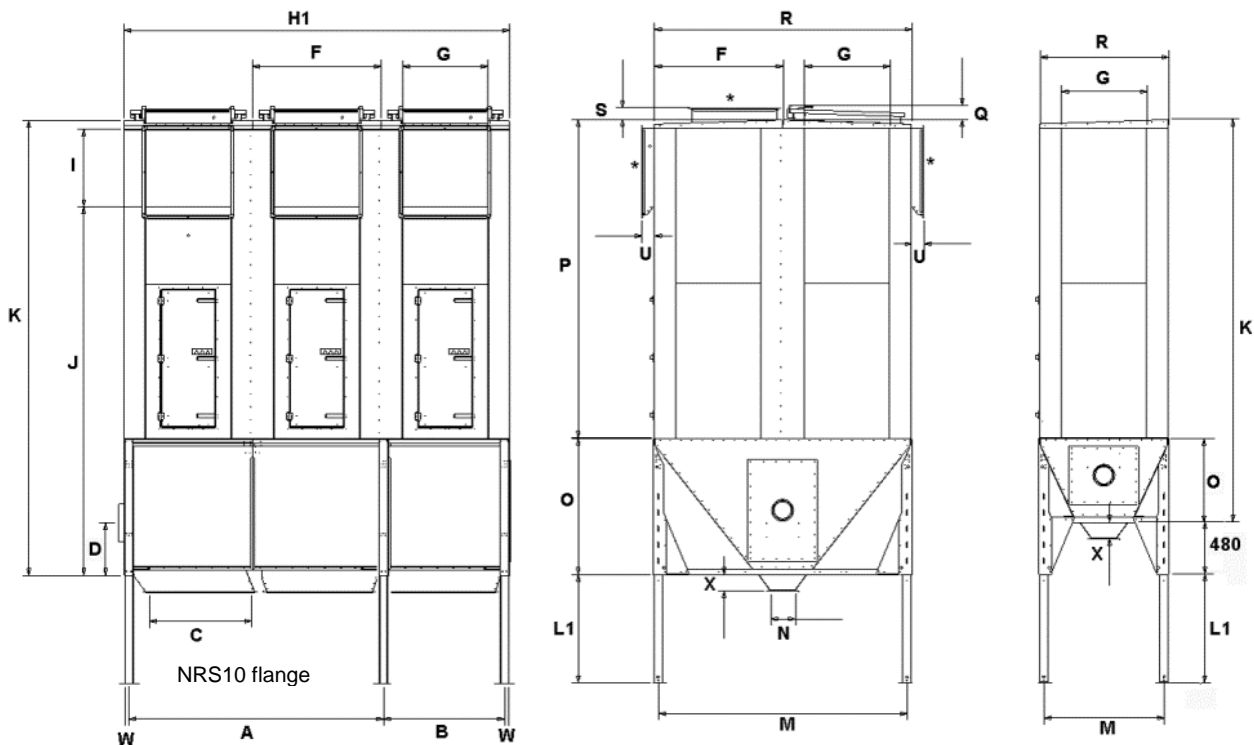
**CE 1180 Ex II D**

### Ordering

Please specify by ordering NFSZ3000 filter:

- Dust characteristics Kst and P-Max
- Zone-rating of place for installation (Non-zone, Zone 21 or zone 22)
- Filter material type (only antistatic)
- Answers to the question session in the configurator.

### NFSZ3000 filter with rotary valve



Type	A#	B	C	D***	F	G	H1	I	J**	K**	L1	M	N	O	P**	Q	R	S	U	W	X
E	2400	1106	952	485	1200	800	3600	720	2937	2740	See below	1121	240	780	2960	135	1200	115	115	47	153
J	2400	1106	952	485	1200	800	3600	720	3420	4220	See below	2321	240	1260	2960	135	2400	115	115	47	153

.L1 – telescopic filter legs		
Type	Min. Adjust.	Max. Adjust.
L = 1196 mm	155	850
L = 1596 mm	555	1250
L = 2195 mm	1155	1850
L = 2596 mm	1555	2250

Type	Weight per module
HJ - over pressure	567 kg
HE – over pressure	391 kg
HJ - vacuum	742 kg
HE - vacuum	496 kg

Filter length			
Type	H1	Type	H1
1 HJ & LJ	1200	1 HE & LE	1200
2 HJ & LJ	2400	2 HE & LE	2400
3 HJ & LJ	3600	3 HE & LE	3600
4 HJ & LJ	4800	4 HE & LE	4800
5 HJ & LJ	6000		
6 HJ & LJ	7200		

All dimensions in mm.

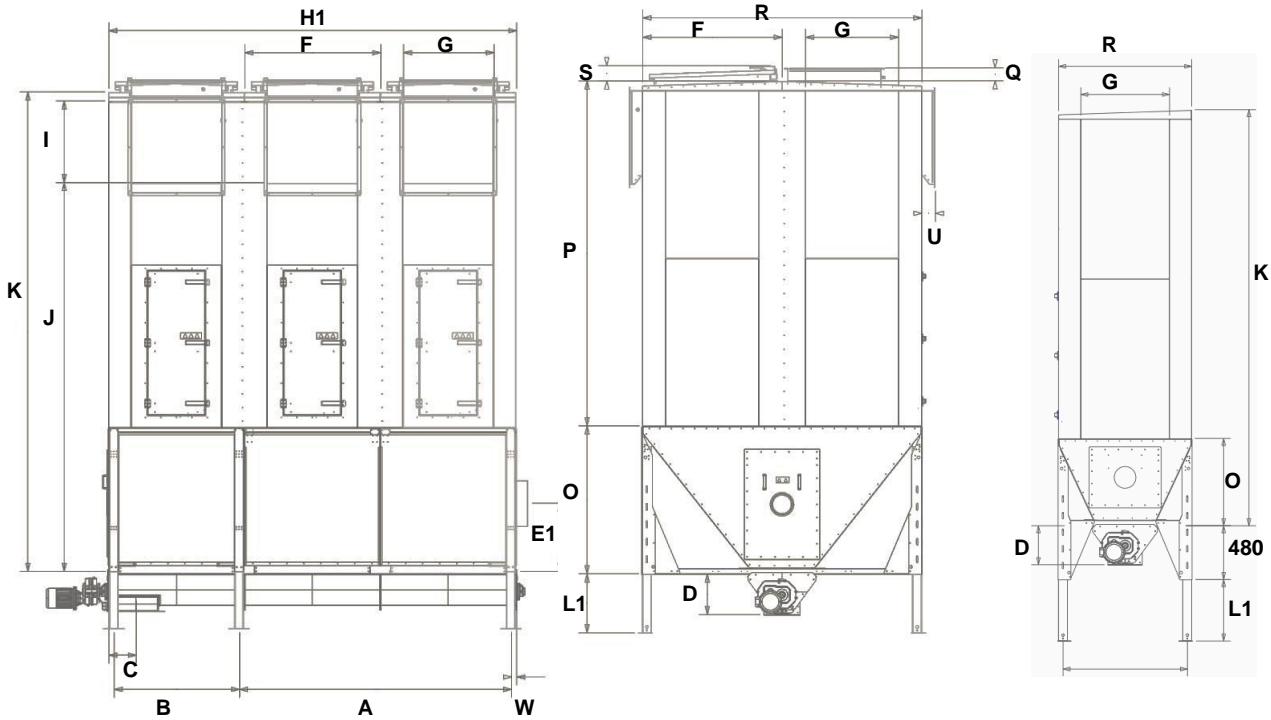
# Optional 1200 mm.

\* Optional position of outlet / reg. fan. 800 x 800 or 600 x 600 mm. (LJ version: not on door side)

\*\* Height of LJ version – reduce 1440 mm

\*\*\* 400 mm to bottom plate in hopper.

**NFSZ3000 filter with screw conveyor**



Type	A#	B	C	D	E1	F	G	H1	I	J**	K**	L1	M	O	P**	Q	R	S	U	W
E	2400	1106	242	350	485	1200	800	3600	720	2937	3740	See below	1121	780	2960	135	1200	115	115	47
J	2400	1106	242	350	485	1200	800	3600	720	3420	4220	See below	2321	1260	2960	135	2400	115	115	47

L1 – telescopic filter legs		
Type	Min. Adjust.	Max. Adjust.
L = 1196	155	850
L = 1596	555	1250
L = 2195	1155	1850
L = 2596	1555	2250

Type	Weight per module
HJ - over pressure	567 kg
HE – over pressure	391 kg
HJ - vacuum	742 kg
HE - vacuum	496 kg
Excl. screw conveyor	

Filter length			
Type	H1	Type	H1
2 HJ & LJ	2400	2 HE & LE	2400
3 HJ & LJ	3600	3 HE & LE	3600
4 HJ & LJ	4800	4 HE & LE	4800
5 HJ & LJ	6000		
6 HJ & LJ	7200		

# Optional 1200 mm.

\* Optional position of outlet / reg. fan. 800 x 800 or 600 x 600 mm.  
(LJ version: not on door side)

\*\* Height of LJ version – reduce 1440 mm

\*\*\* 400 mm to bottom plate in hopper

All dimensions in mm.

