

NFKZ3000 Filter with chain conveyor

Compact filter, suited for handling large air flows with heavy material content.



Example: NFKZ3000 2+1 HJ filter with side and top venting for St2 dust.

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 Chain motor – 1,1 kW 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 ²)	HJ: 85 m ² LJ: 40 m ²

The NFKZ3000 filter with chain conveyor is a compact filter, suited for handling large air flows with heavy material content, for example filtration of waste-laden extracted air in the wood and paper industries.

The filter hopper and the inlet section (optional) separate the medium/large particles and distribute the air to the filter bags. A double chain conveyor in the bottom of the hopper moves the collected material to a rotary valve for outfeeding.

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

The NFKZ3000 filter is suitable for explosive dusts type St1 and St2.

Description

The NFKZ3000 filter is a modular chain filter made of galvanised steel sheets.

(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 double module filter construction, type J (width = 2400 mm), is fitted with a combined inspection and explosion relief door. Side venting is standard. (Option – top venting or UP-ward venting). See separate leaflet "FILTERTOP".

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 (50 per double module).

Inlet in hopper – any ATEX zone.

Inlet via inlet module: consult technical leaflet.

Ordering

By ordering NFKZ3000 filter, please specify:

- 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.

Marking:

The NFKZ3000 filter body for dust type St1 for installation in non-zone are marked:

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

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

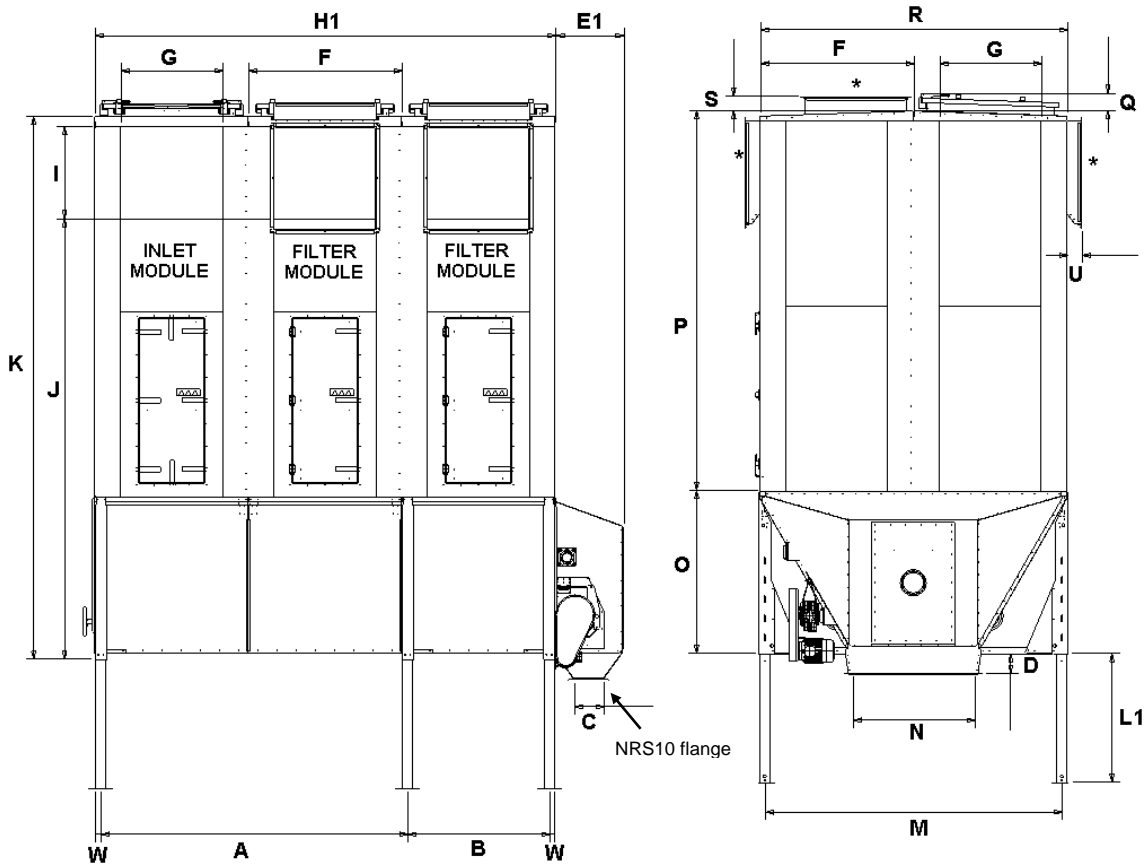
CE 1180  **II 1(3)/- D St2**

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

The explosion relief doors are marked:

CE 1180  **II D**

Dimensions (example – NFKZ3000 2+1 HJ)



A#	B	C	D	E	F	G	H	I	J**	K**	L	M	N	O	P**	Q	R	S	U	W
2400	1106	245	153	583	1200	800	3600	720	3420	4230	See below	2321	952	1260	2960	135	2400	115	150	47

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

Type	Weight per module
J - over pressure	567 kg
J - vacuum	742 kg
Driving station	250 kg

* 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

Optional 1200 mm.

All dimensions in mm.