Nederman

LBR-C SmartFilter with chain conveyor

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

Specification

Parameters	Description
Temperature	Max. 75°C
Positive pressure	Max. 800 Pa
Negative pressure	Max. 500 Pa for Standard (overpressure) version Max. 5000 Pa for Vacuum version
Power supply:	230 / 400 V Chain motor – 1,1 kW Regeneration fan – 1,1 kW (option 2,2 kW)
Filter element	Superbag 2000 XT15 with ø200 mm collar
Max. quantity of modules	34 modules
Filter area (m^2)	HJ: 85 m^2 LJ: 40 m^2
Max. filtration area (m^2)	HJ: 2550 m^2 LJ: 1200 m^2
Door switch	At the inspection doors in the filter hopper. At one filter module door per each 5 modules. At each inlet module door.

Product Marking of LBR-C SmartFilter:

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

- The explosion relief doors are marked:

CE 1026 Ex II D

The LBR-C Smartfilter 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 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 LBR-C Smartfilter is suitable for explosive dusts type St1 and St2.

Description

The LBR-C Smartfilter 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).

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.

Superbag 2000 XT15 antistatic polyester filter bags are standard (50 per double module).

Inlet in hopper – any ATEX zone.

Inlet via inlet module.

For dust type St1 for installation in non-zone is marked:

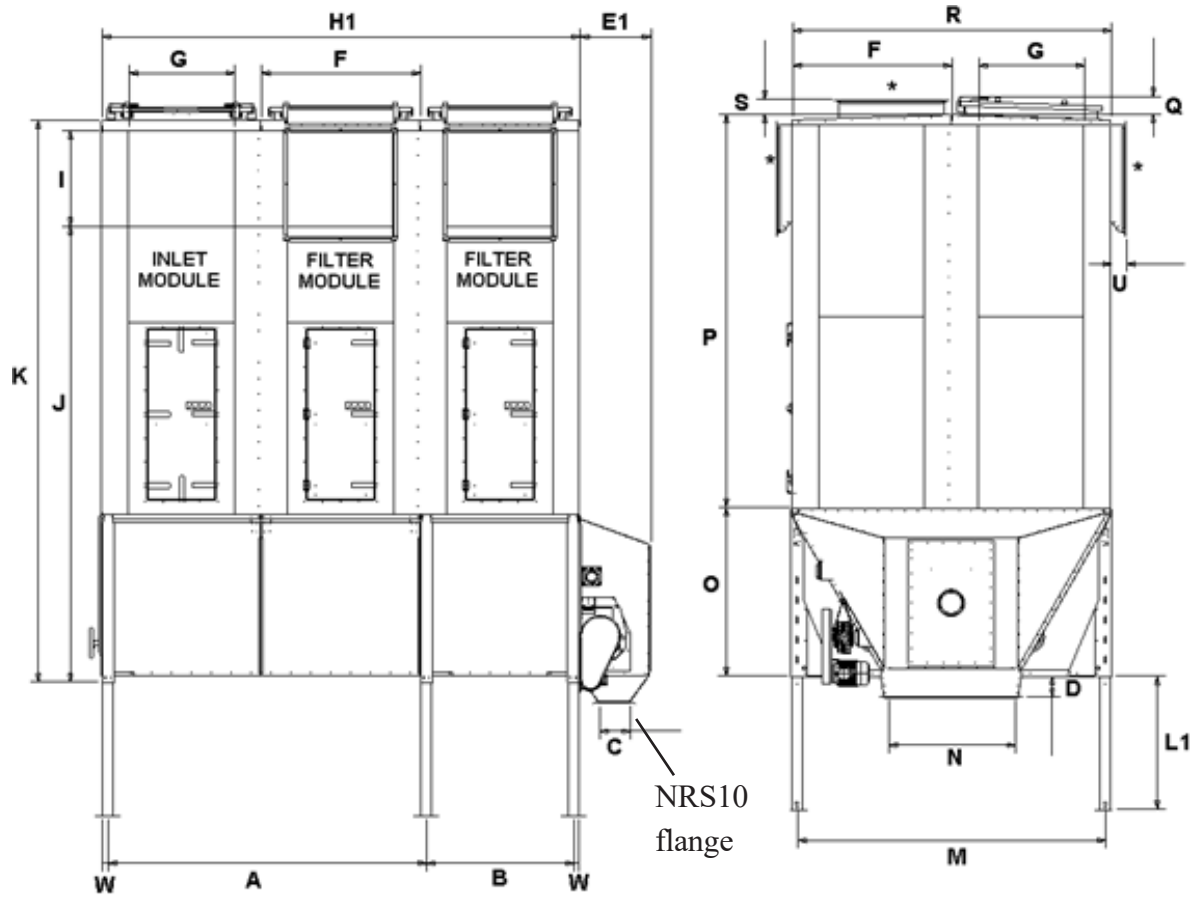
CE 1026 Ex II D St1

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

CE 1026 Ex II D St2

Dimensions

Example of LBR-C HJ 031:



A #	B	C	D	E	F	G	H	I	J**	K**	M	N	O	P**	Q	R	S	U	W
2400	1106	245	153	583	1200	800	3600	720	3420	4230	2320	952	1260	2960	135	2400	115	150	47

* 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.

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

All dimensions in mm.

Ordering

By ordering LBR-C, please specify:

- Dust characteristics K_{ST} and p_{max}
- Zone-rating of place for installation (Non-zone)
- Filter material type (only antistatic)
- Answers to the question session in the configurator.

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