Nederman

LBR-R SmartFilter with rotary valve

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

Specification

Parameters	Description
Temperature	Max. 167°F (75°C)
Positive pressure	Max. 3.2 in H_2O (800 Pa)
Negative pressure	Max. 2 in H_2O (500 Pa) for Standard (overpressure) Option 20.1 in H_2O (5000 Pa) only for Vacuum version
Reduced pressure in vessel	P_{red} < 0,2 bar (20 kPa)
Power supply:	208-230/460 or 575 V (230/400 V) Regeneration fan – 3 HP (2,2 kW) option - 1.5 HP (1,1 kW)
Filter element	Superbag 2000 XT15 with ø200 mm collar
Max. quantity of modules	4 modules
Filter area per module	HJ: 915 ft² (85 m²)
Max. filtration area	HJ: 3,659 ft² (340 m²)
Door switch	At the inspection doors in the filter hopper. At one filter module door per each 5 modules. At each inlet module door.

The LBR-R SmartFilters with rotary valve 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 LBR Smartfilter is suitable for explosive dusts type St1 and St2.

Description

The LBR Smartfilter is a modular filter made of galvanised steel sheets.

Size of base module: 47.25x47.25 in (1200x 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).

The filter is available in type J– two modules 94.5 in (2400 mm) wide.

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.

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

Product Marking of LBR-R SmartFilter:

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

- The explosion relief doors are marked:

CE 1026 Ex II D

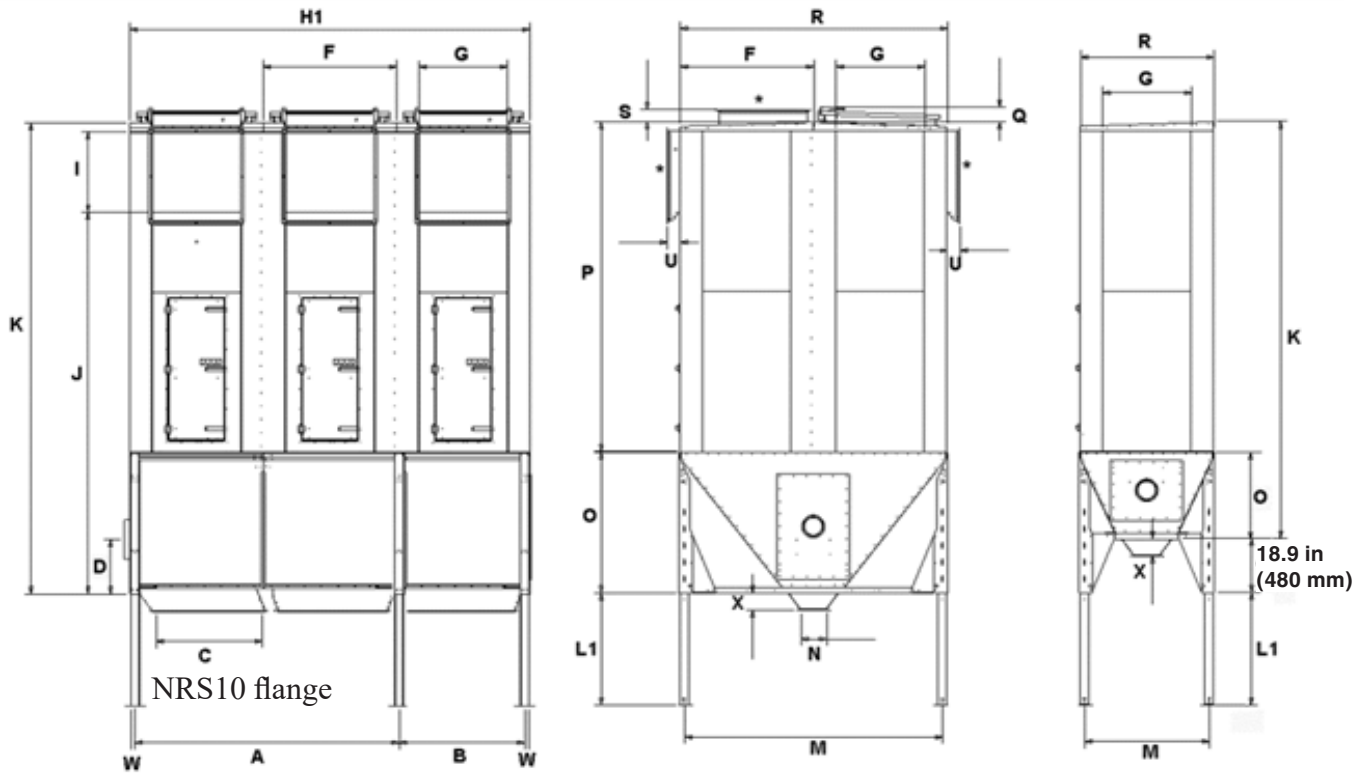
For dust type St1 for installation in non-zone is marked:

CE 1026 Ex II D St1

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

CE 1026 Ex II D St2

Dimensions



Unit	Type	A	B	C	D	F	G	H1	I	J	K	M	N	O
mm	J	2400	1106	952	485	1200	800	3600	720	3420	4220	2321	240	1260
in	J	94.5	45.67	37.5	19.09	47.24	31.50	141.73	28.35	134.65	166.14	91.38	9.45	49.61

Unit	Type	P	Q	R	S	U	W	X
mm	J	2960	135	2400	115	150	47	153
in	J	116.54	5.31	94.5	4.53	5.91	1.85	6.02

* Optional position of outlet / reg. fan.

Filter length		
Type	H1	
	mm	in
1 HJ	1200	47.24
2 HJ	2400	94.5
3 HJ	3600	141.73
4 HJ	4800	189.0

L1 - telescopic filter legs				
Type	Min. Adjust		Max. Adjust	
	mm	in	mm	in
L= 1196	155	6.1	850	33.46
L= 1596	555	21.85	1250	84.65
L= 2195	1155	45.47	1850	72.83
L=2596	1555	61.22	2250	88.58