

LBR-C SmartFilter

LBR-C SmartFilter with chain conveyor for heavy dust applications

LBR-C SmartFilter



The LBR-C is an advanced, IIoT ready, reverse air baghouse suited for continuous duty applications with high air volumes and heavy dust loading. The modular filter housing can be scaled for the required airflow and additional modules can be installed in the field if additional capacity is required. The LBR filter is self supporting with telescopic legs for height adjustment and is suitable for outdoor installations.

Air enters the filter through an inlet module or hopper inlet where the heavy / large dust particles drop out of airstream. The remaining fine particles pass through an array of highly efficient SUPERBAG filters allowing clean air to pass through. As dust accumulates on the filter bags, a regeneration fan located on each filter module blows air in the reverse direction dislodging the collected dust into the hopper where it is evacuated by the double chain conveyor to a container or material handling system.

The LBR SmartFilter features the Insight Control Panel offering complete control of the filter and system accessories. Sensors located throughout the system monitor and collect critical operational data for the local controls and can be connected to the Nederman cloud based IIoT platform for remote monitoring and system data analytics.

- **Configurable.** Modular design combined with a wide range of filter and system accessories allows the LBR SmartFilter to be configured to your factory's unique needs. A variety of filter sizes, depths and ability to handle either overpressure (positive) or vacuum (negative) airflow arrangement means the filter is optimized for your needs.
- **Future Proof.** The LBR SmartFilter controls are IIoT ready as standard, and our proprietary Insight platform enhances their current operation and prepares their factory for a digital future. Filter modules can be added in field if additional capacity is required.
- **Low Operational Cost.** 5-7 years of filter life, low operational pressure losses and efficient filter cleaning reduces the total cost of ownership compared to pulse jet or mechanical shaker alternatives.
- **Regulatory Compliance.** The LBR SmartFilter complies with the latest ATEX and NFPA combustible dust standards and regulations and our trained, experienced sales teams can provide a complete, turn-key compliant system.
- **Sustainability.** The LBR SmartFilter offers an energy efficient solution capable of recovering waste material to be reused or recycled.

Product name	LBR-C SmartFilter
Installation	Outdoor
Material	Housing in galvanised sheet

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	steel
Suitable for combustible dust	True
Filter cleaning method	Reverse air pulse
Application	Dust
Working pressure (kPa)	5
Filter Area (m ²)	Per module HJ: 85 Per module LJ: 40
Capacity (max airflow m ³ /h)	500000
Operating Temperature	-20 to 75°C
Power Voltage (V)	208-600
Filter type	Bag
Filter material	Superbag 2000 XT15 with ø200 mm collar
Weight (kg)	
Power (kW)	Chain motor: 1,1 kW Regeneration fan - 1,1 kW (option 2,2 kW)
Note	Configurable product



Dust

LBR-C SmartFilter

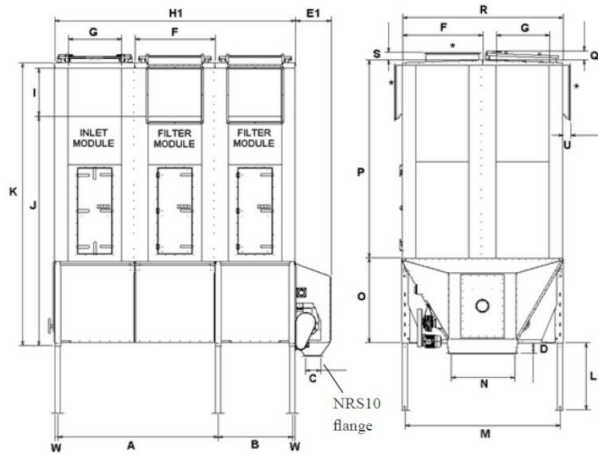
Model
LBR-C*

**Configurable product*

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Dimensions

Example of LBR-C 2+1 HJ:



A*	B	C	D	E	F	G	H	I	J**	K**	M	N	O	P**	Q	R	S	U	W
2400	1160	245	153	583	1200	800	3600	720	3420	4230	2321	952	1260	2960	135	2400	115	150	47

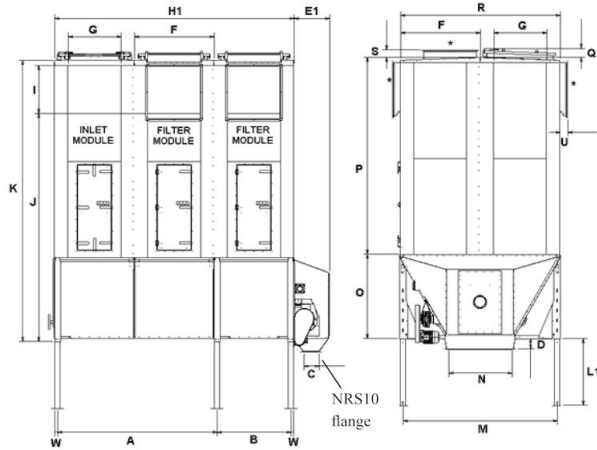
* Optional position of outlet / reg. fan. 800 x 800 or 600 x 600 mm. (LJ version: not on door side)
 ** Height of LJ version – reduce 1440 mm
 # Optional 1200 mm.

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

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

All dimensions in mm.

LBR-C SmartFilter



Unit	A	B	C	D	E	F	G	H	I	J	K	M	N	O
mm	2400	1160	245	153	583	1200	800	3600	720	3420	4230	2321	952	1260
in	94.49	45.67	9.65	6.02	22.95	47.24	31.50	141.73	28.35	134.65	166.54	91.38	37.48	49.61
Unit	P	Q	R	S	U	W								
mm	2960	135	2400	115	150	47								
in	116.54	5.31	94.49	4.53	5.91	1.85								

* Optional position of outlet / reg. fan.

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