Product leaflet

LBR-C SmartFilter

LBR-C SmartFilter with chain conveyor for heavy dust applications

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LBR-C SmartFilter

- 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.

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.

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LBR-C SmartFilter

Certifications	CE, EX
Installation	Outdoor
Suitable for combustible dust	True
Filter cleaning method	Reverse air pulse
Application	Dust

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Models

	Item no	Power Voltage (V)	Filter type	Power (kW)
	LBR-C[1]	208-600	[bag]	Chain motor: 1,1 kW Regeneration fan - 1,1 kW (option 2,2 kW)

[1] Configurable product

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Accessories

	Accessory	Item no
	Bend 30° Complete 600 x 600	5502970
	Bend 90° Complete 600 x 600	5502984
	Discharge Nozzle EP 600x600	5503011
	fire gate 600 x 600	5503036
	Return Air ø800 End Cap	5504911
	Return Air ø1000 End Cap	5504912
	Return Air Duct ø800	5504913
	Return Air Duct ø1000	5504914
	Return Air ø800 2xFL/800x800EP	5504915
	Return Air ø1000 2xFL/800x800EP	5504916
	Return Air ø800 3xFL	5504917
	Return Air ø1000 3xFL	5504919
	Return Air Component EP No 216	5504255

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Accessories

	Accessory	Item no
	Return Air Component EP No 223	5504262
	Return Air Component EP No 224	5504263
	Return Air Component EP No 233	5504272
	Return Air Component EP No 235	5504274
	Return Air Component EP No 236	5504275
	Return Air Component EP No 237	5504276
	Return Air Component EP No 238	5504277
	Return Air Component EP No 239	5504278
	Superbag 3000 XT15 Ø200/655 For L-Filter Below Reg.Fan	5502447
	Superbag 3000 XT15 Ø200/750 For Vibration Cleaning M8 X 475	5502448
	Superbag 3000 XT15 Ø200/1420 For L-Filter	5502449
	Superbag 3000 XT15 Ø200/1190 For Vibration Cleaning	5502450
	Superbag 3000 XT15 Ø200/2095 For H-Filter Below Reg.Fan	5502451

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Accessories

	Accessory	Item no
	Superbag 3000 XT15 Ø200/2190 For Vibration Cleaning	5502452
	Superbag 3000 XT15, Ø200/2860 For H-Filter	5502453
	Superbag 3000 XT15 Ø200/2630 For Vibration Cleaning	5502454
	Explosion Relief 800x800	5503061
	Bend 90° Complete 800x800	5502989

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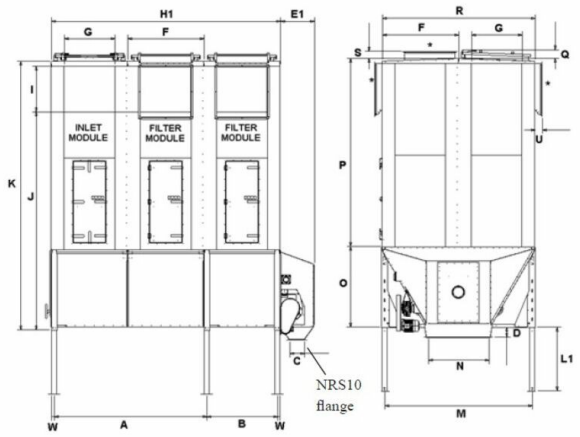
Dimensions

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.

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