

# LBR-C SmartFilter with chain conveyor

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



## Specification

| Parameters                 | Description   |
|----------------------------|---|
| Temperature                | Max. 167°F (75°C)   |
| Positive pressure          | Max. 3.2 in H <sub>2</sub> O (800 Pa)   |
| Negative pressure          | Max. 2 in H <sub>2</sub> O (500 Pa) for Standard (overpressure)<br>Option 20.1 in H <sub>2</sub> O (5000 Pa) only for Vacuum version  |
| Reduced pressure in vessel | $P_{red} < 0,2 \text{ bar (20 kPa)}$  |
| Power supply:              | 208-230/460 or 575 V, (230 / 400 V)<br>Chain motor – 1.5 HP, (1,1 kW)<br>Regeneration fan – 3 HP (2,2 kW)<br>option - 1.5 HP (1,1 kW) |
| Filter element             | Superbag 2000 XT15 with ø200 mm collar  |
| Max. quantity of modules   | 34 modules (30 filter module + 4 inlets)  |
| Filter area per module     | HJ: 915 ft <sup>2</sup> (85 m <sup>2</sup> )  |
| Max. filtration area       | HJ: 27,434 ft <sup>2</sup> (2550 m <sup>2</sup> )   |
| Door switch                | At the inspection doors in the filter hopper.<br>At one filter module door per each 5 modules.<br>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:



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: 47.25x47.25 in (1200x1200 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 = 94.5 in (2400 mm), is fitted with a combined inspection and explosion relief door. Side venting is standard. (Option – top venting or UP-ward venting).

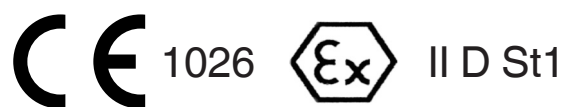
A regeneration fan can be mounted for reverse air cleaning of the filter bags according to a pre-set sequence. Positioning of the regeneration fans - optional on the roof or on the side.

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

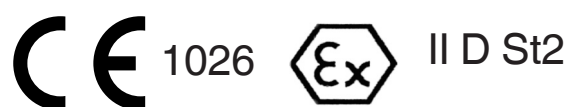
Inlet in hopper – any ATEX zone.

Inlet via inlet module.

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

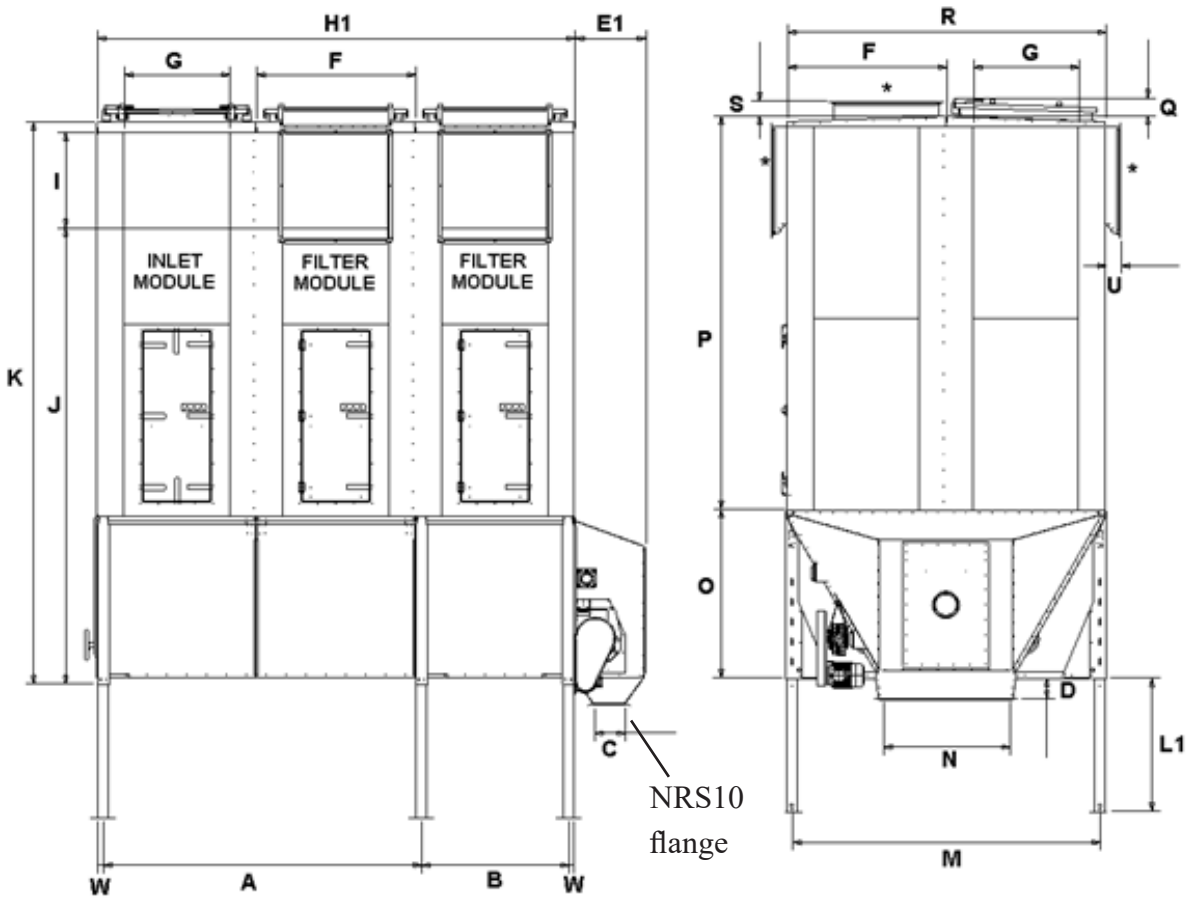


For dust type St1 and St2, the filter body is marked:



Dimensions

Example of LBR - C HJ - 021:



| 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. |        |       |       |      |       |       |       |        |       |        |        |       |       |       |

| L - telescopic filter legs |             |       |             |       |
|----------------------------|-------------|-------|-------------|-------|
| Type                       | 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 |

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.