

WHBLF - WBLF

DELTA series absolute filters for unidirectional flows

| Product | WHBLF | WBLF ** |
|-------------------------------|-----------|------------|
| MPPS efficiency* | 99,995 % | 99,995 % |
| CEN EN 1822 classification | H 14 | H 14 |
| Suggested final pressure drop | 350 Pa | 350 Pa |
| Maximum pressure drop | 600 Pa | 600 Pa |
| Maximum operating temperature | 70 °C | 90 °C |
| Maximum relative humidity | 90 % | 90 % |
| Pleats filtration pack | Minipleat | Deep pleat |

* Average efficiency Punctual efficiency has an admitted penetration rate 5 times higher.

The absolute filters of the Delta series are made in two versions: WBLF deep-pleated and WHBLF mini-pleated; both are used with laminar flows and with face air speeds of 0.4 m/s, even though they can be used with turbulent flows. The filtration medium is made of water-proof micro-fiber glass sheets, with fire reaction class M1. In WBLF filters, the medium is deep-pleated with constant pitch and corrugated aluminium separators; in WHBLF filters the medium is mini-pleated with constant pitch with continuous thermoplastic cord. Both filters use a polyurethane sealant.

The frame for both models is made of treated multi-layer marine wood and it is fitted with a one piece polyurethane gasket. Pressure drop levels are limited and this reduces fan energy consumption levels. Every filter is individually tested with scan control on the entire surface and labeled with the characteristics obtained by the test. The high manufacturing quality and the high dust holding capacity assure long operating life.

pharmaceutical industries and clean rooms in general. They must be fitted with proper high efficiency pre-filters to increase their operating life.

Applications WBLF – WHBLF absolute filters are used in all the rooms with controlled contamination levels: electronic, photographic,

Installation WBLF – WHBLF absolute filters are installed in filtration terminals. They are also inserted in specific containers (ex. Canister) in case of emissions of air polluted by toxic substances or containing pathogens, with all proper precautions.

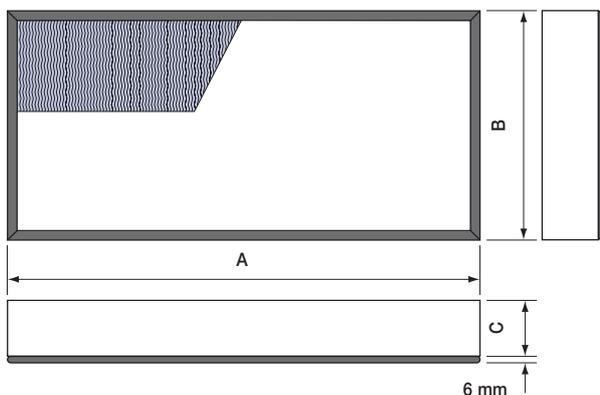
The container must be chosen very carefully.

** In case a galvanized steel frame is required the filter is KBLF model.

| Type | Sizes (mm) | | | | Nominal air flow rate Q. | | Filtering surface | Initial pressure drop | | | |
|------|------------|-------|-----|------|--------------------------|-------------------------|-------------------|-----------------------|-----|-----|-----|
| | WHBLF | WHBLF | | WBLF | m³/h | m³/sx10 ⁻³ * | | | | | |
| WBLF | A | B | C | C | | | m² | Pa | | | |
| 3 | 305 | x | 305 | x | 78 | x | 149 | 150 | 42 | 2,5 | 120 |
| 42 | 610 | x | 305 | x | 78 | x | 149 | 300 | 84 | 5 | 120 |
| 43 | 457 | x | 457 | x | 78 | x | 149 | 340 | 95 | 5,5 | 120 |
| 41 | 610 | x | 457 | x | 78 | x | 149 | 450 | 125 | 7 | 120 |
| 4 | 610 | x | 610 | x | 78 | x | 149 | 600 | 167 | 10 | 120 |
| 7 | 762 | x | 610 | x | 78 | x | 149 | 750 | 209 | 12 | 120 |
| 8 | 915 | x | 610 | x | 78 | x | 149 | 900 | 250 | 14 | 120 |
| 9 | 1219 | x | 610 | x | 78 | x | 149 | 1200 | 336 | 20 | 120 |
| 10 | 1524 | x | 610 | x | 78 | x | 149 | 1500 | 417 | 24 | 120 |
| 11 | 1829 | x | 610 | x | 78 | x | 149 | 1800 | 500 | 28 | 120 |
| 71 | 762 | x | 762 | x | 78 | x | 149 | 940 | 261 | 15 | 120 |
| 72 | 915 | x | 762 | x | 78 | x | 149 | 1130 | 314 | 18 | 120 |
| 73 | 1219 | x | 762 | x | 78 | x | 149 | 1500 | 418 | 23 | 120 |
| 74 | 1524 | x | 762 | x | 78 | x | 149 | 1880 | 523 | 29 | 120 |
| 75 | 1829 | x | 762 | x | 78 | x | 149 | 2260 | 627 | 35 | 120 |

*1 m³/s x 10⁻³ = 1 l/s

Size



If the filters are used in turbulent flows at maximum face velocity, efficiency levels drop by one class.

Typical curves

