THE WORLD LEADER IN CLEAN AIR SOLUTIONS

# VariCel® XL HT

COMPACT FILTER

## Features and Benefits

- High continuous operating temperature up to 385 ˚C for improved throughput
- Heat resistant aluminized materials ensure a spall- and flake free finished product
- Mechanically interlocked filter construction providing increased stiffness under tough conditions
- Support bars on air leaving side to guarantee media pack stability
- Fully silicone free product to avoid costly process contaminations
- High dust holding capacity facilitates a longer service life and fewer filter changeouts

## Applications

- Second stage or final filtration in hot air systems such as paint drying lines

The VariCel XL HT compact filter is designed to improve air quality in hot air systems such as paint drying lines with a great energy savings level and attractive lifecycle cost. The air filter is able to handle high continuous temperatures in operation, up to 385 ˚C. Its sturdy and lightweight construction means that the VariCel XL HT filter is not only less susceptible to damage, but also easy to install and replace.

## Consistent Air Quality

The VariCel XL HT filter is available in the EN779:2012 filter class range M6 - F8. This filter is free of silicone to safeguard the air quality during the various steps of the drying process. Furthermore, no adhesives, sealants or glues are used in the construction of the VariCel XL HT filter that could degrade at high temperatures and cause structural damage to the filter or affect the outcome of the drying process.

## Improved Process Performance

The VariCel XL HT filter can be applied at high continuous operating temperatures up tp 385 ˚C for improved throughput. The robust aluminized steel construction with faceguards and support bars, and the special designed media pack ensure filter integrity at high airflow and under turbulent operating conditions. The application of aluminized steel ensures a spall- and flake-free finished product.

## Environmental Savings

The special designed media pack of the VariCel XL HT filter provides a superior performance and longer service life, which reduces disposal and waste. The media pack has a higher dust holding capacity than traditional design products in a compact 12" depth design. Its compact design ensures a lower weight than market standard 17" depth products with comparable performance levels, resulting in less stress on air filter frames and easier installation.

## Beneficial Total Cost of Ownership

The VariCel XL HT filter is designed for use in drying ovens with a maximum energy savings level and attractive lifecycle cost. In continuous operation at a car manufacturer's paint drying line, the VariCel XL HT filter provides up to 40% savings on energy costs compared to traditional designs, which equals a return on investment of less than 18 months. The filter is available in a box, single header and double header construction with the option of a glass rope gasket.

EUROVENT CERTIFIED PERFORMANCE
AIR FILTERS
CLASS M5-F9
www.eurovent-certification.com

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# VariCel® XL HT Filter

## Standard configuration

| Filter medium | | Header (optional) | |
|---|---|---|---|
| Material | Fibreglass | Material | Extruded aluminum with provisions for gasket |
| Pack design | Deep pleat | Depth | 20 mm and 25 mm |
| Separator | Tapered corrugated aluminium | Filter frame | |
| Gasket | | Material | Aluminized steel |
| Material | Optional: Glass rope gasket | Sealant | Glass media |

## Product information

| Filter | Part number | Dimensions (mm) W x H x D | Filter area ($m^2$) | Number of pockets or V | Nominal airflow ($m^3/h$) | DHC acc. EN779 (g) | EN779:2012 Classification | Initial dp (Pa) | Energy Rating | ISO 16890 Classification | ePM1 (%) | ePM2,5 (%) | ePM10 (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VariCel® XL HT F7 | 20-6387-4202 | 592 x 592 x 292 | 13,4 | - | 3400 | 375 | F7 | 150 | D | ePM1 50% | 54 | 64 | 82 |
| VariCel® HT XL HT F8 | 20-8387-4202 | 592 x 592 x 292 | 13,4 | - | 3400 | 275 | F8 | 170 | D | ePM1 65% | 68 | 76 | 90 |
| VariCel® HT XL HT M6 | 20-5387-4202 | 592 x 592 x 292 | 13,4 | - | 3400 | 425 | M6 | 125 | E | ePM10 70% | 24 | 38 | 71 |

Further dimensions are available on request. Until December 31st 2017 filtration efficiency values are certified according to EN779:2012. From January 1st 2018 filtration efficiency values are certified according to ISO 16890.

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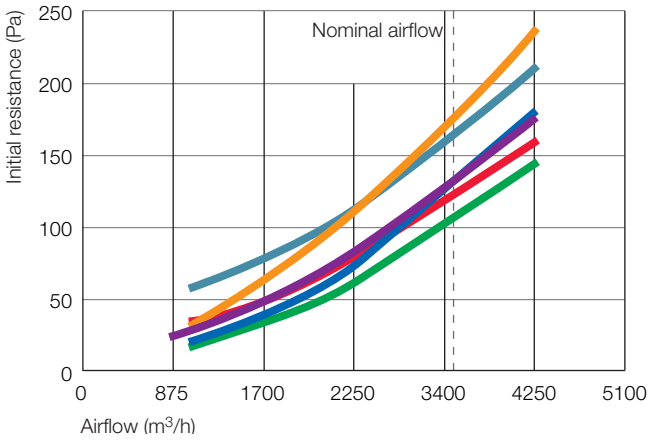
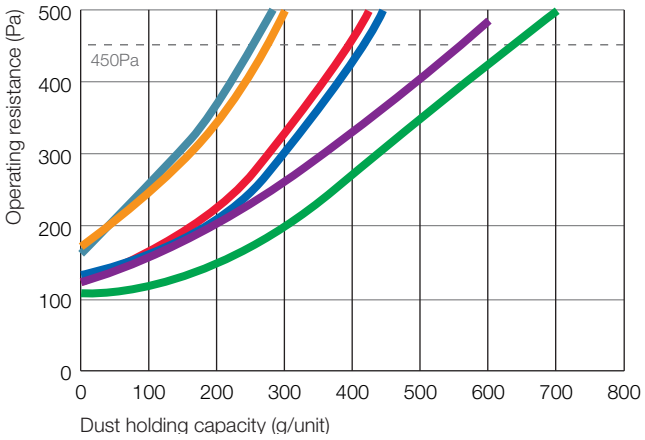
# VariCel® XL HT Filter

## Airflow versus operating resistance




592x592x292 mm - Single/Double header - F8
592x592x292 mm - Single/Double header - M6
610x610x292 mm - Single/Double header - F8
610x610x292 mm - Single/Double header - M6
610x610x292 mm - Box (no header) - F8
610x610x292 mm - Box (no header) - M6

## Dust holding capacity versus operating resistance




592x592x292 mm - Single/Double header - F8
592x592x292 mm - Single/Double header - M6
610x610x292 mm - Single/Double header - F8
610x610x292 mm - Single/Double header - M6
610x610x292 mm - Box (no header) - F8
610x610x292 mm - Box (no header) - M6

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AAF International
European Headquarters
Odenwaldstrasse 4, 64646 Heppenheim
Tel: +49 (0)6252 69977-0
aafeurope.com

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