

VariCel® VXL



COMPACT FILTERS

Features and benefits

- Fibreglass media pack with uniform pleat spacing for reduced operating resistance and energy consumption
- Sturdy construction for handling high airflow rates up to 4250 m³/h
- High dust holding capacity for facilitating a long service life and fewer change-outs

Applications

- Pre- or final filtration in central air handling systems and industrial installations
- Pre-filtration for critical cleanroom processes

The VariCel® VXL compact filter is designed to provide excellent performance under challenging operating conditions, in either industrial or commercial HVAC installations. The air filter is able to handle high airflow rates while remaining excellent filtration performance. Its sturdy and lightweight construction makes that the VariCel VXL is not only less susceptible to damage, but also easy to install and replace.

Improved process performance

VariCel VXL is available in the EN779:2012 filter class range M6 - F9 and can be applied for high airflow applications up to 4250 m³/h. Its rigid design and pleated fibreglass media pack ensures that the air filter delivers the desired air quality when used in variable air volume systems even if it is subjected to repeated fan shut-down, high relative humidity and intermittent exposure to water.

Environmental savings

With its uniform pleat spacing and optimal airflow through the filter, the VariCel VXL offers a low operating resistance and energy consumption, certified by Eurovent. With a filter frame and header made from a combination of HIPS and ABS, the VariCel VXL is not only easy to install and replace but also fully incinerable. Its high dust holding capacity allows for a long service life, further limiting disposal and waste impact.

Beneficial Total Cost of Ownership

Due to its high capacity, the VariCel VXL offers multiple cost saving opportunities. Fewer filters are needed to handle the same volume of air compared to lower capacity air filters, meaning that less installation space is required. The beneficial operating resistance of the VariCel VXL optimizes energy consumption and therewith reduces energy costs, while its long service life limits replacement costs.



VariCel® VXL

Standard configuration

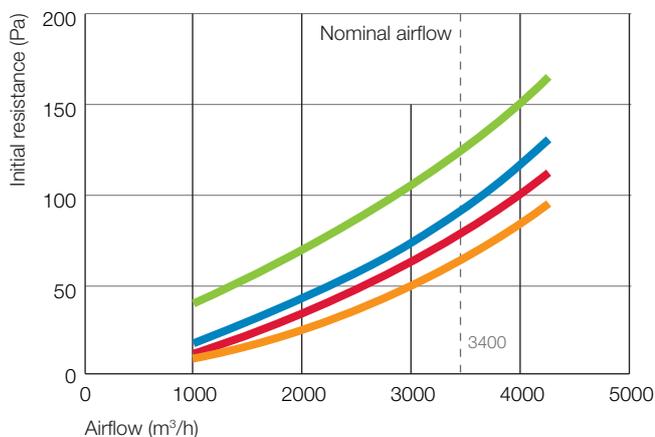
| Filter medium | | Header | |
|---------------|---------------------------------------|--------------|---|
| Material | Fibreglass | Material | Combination of HIPS (High Impact Polystyrene) and ABS |
| Pack design | Mini-pleat V-shape | Depth | 25 mm. Optional: 20 mm |
| Separator | Hot-melt | Filter frame | |
| Gasket | | Material | Combination of HIPS (High Impact Polystyrene) and ABS |
| Material | Optional: Polyurethane foamed endless | Sealant | Polyurethane |

Performance

| Dimensions (mm) | | | Airflow | | Filter medium surface (m ²) | Initial resistance (Pa) | | Minimum Efficiency (ME) % | | Energy class (2015) | | Energy consumption (kWh/year) | |
|-----------------|-----|-----|-------------------|-------------------|---|-------------------------|-----|---------------------------|----|---------------------|----|-------------------------------|------|
| W | H | D | m ³ /h | m ³ /s | | M6 | F7 | M6 | F7 | M6 | F7 | M6 | F7 |
| 592 | 592 | 292 | 4250 | 1,18 | 14,5 | 100 | 110 | | 50 | | | | |
| 592 | 592 | 292 | 3400 | 0,94 | 14,5 | 65 | 75 | | 50 | C | B | 1000 | 1015 |
| 490 | 592 | 292 | 2800 | 0,78 | 11,9 | 65 | 75 | | 50 | | | | |
| 287 | 592 | 292 | 1700 | 0,47 | 6,4 | 65 | 75 | | 50 | | | | |
| W | H | D | m ³ /h | m ³ /s | | F8 | F9 | F8 | F9 | F8 | F9 | F8 | F9 |
| 592 | 592 | 292 | 4250 | 1,18 | 14,5 | 135 | 170 | 70 | 90 | | | | |
| 592 | 592 | 292 | 3400 | 0,94 | 14,5 | 95 | 120 | 70 | 90 | B | B | 1350 | 1750 |
| 490 | 592 | 292 | 2800 | 0,78 | 11,9 | 95 | 120 | 70 | 90 | | | | |
| 287 | 592 | 292 | 1700 | 0,47 | 6,4 | 95 | 120 | 70 | 90 | | | | |

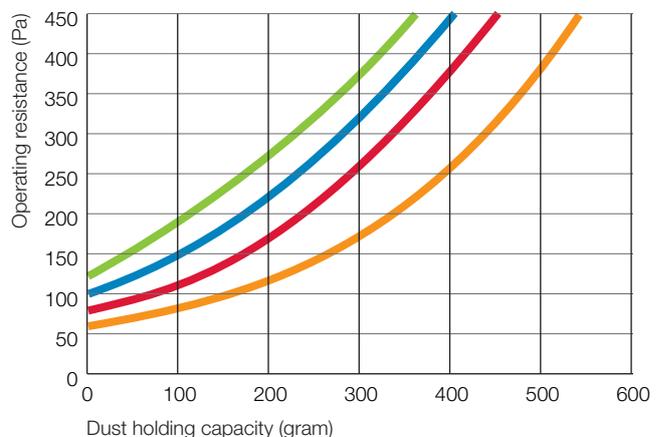
The Width (W) and Height (H) dimensions are interchangeable. All performance data are based on EN779:2012. Reported values for energy class and annual energy consumption are based on Eurovent Guideline 4/21 2014 and RS 4/C/001-2015. Recommended final resistance is subject to optimisation of lifecycle costs, be it maximum 600 Pa (a maximum of 450 Pa is used for classification purposes). Filters can be operated at 75% to 125% of the nominal airflow of 3400 m³/h. Maximum operating temperature is 70°C (continuous).

Airflow versus initial resistance



VariCel VXL 592x592x292 mm F9 / F8 / F7 / M6

Dust holding capacity versus operating resistance



VariCel VXL 592x592x292 mm F9 / F8 / F7 / M6



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