

## pocket filters

## UltraTec 9



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1. Three-layer synthetic nonwoven
2. High dust absorbency
3. Low pressure drop
4. Long filter lifespan
5. Low energy costs
6. Resistance to humidity
7. Flame retardant (Fl acc. DIN 53438)
8. Standard and custom sizes
9. Certified quality

The air supplied by ventilation and air conditioning systems is as clean as the filters clean it, and therefore the quality of the filters, their reliability, and durability have an enormous impact on the assessment of the operation of the whole ventilation system.

|   |          |
|---|----------|
| ISO 16890 Class:  | ePM1 70% |
| *Final pressure drop derived from the filter test standard: | 300 Pa   |
| EN 779:2012 Class:  | F9       |
| *Final pressure drop derived from the filter test standard: | 450 Pa   |
| Average filtration rate ( $A_m$ ):                          | >99,5 %  |
| Average efficiency ( $E_m$ ):                               | >96,5 %  |
| Max. operating temperature:                                 | <100°C   |
| Permissible relative humidity:                              | <100%    |

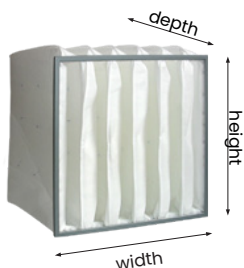
**Filtration material:** technology based on three-layer synthetic nonwoven, predominantly polypropylene with the use of microfibers. High-strength outer layer, a core for high dust absorption and thin supportive inner layer. The use of microfibers allows for low pressure drop and high mechanical strength throughout the service life. Maximum long-term air purification efficiency with minimum pressure drop. Very high dirt-holding capacity with mechanical strength results in low operating and maintenance costs.

**Casing:** perfectly airtight and very durable construction: pockets sewn or welded together and placed on a wire grid of  $\varnothing=3.5$  mm and framed in galvanized sheet metal; alternatively, design suitable for disposal in waste incineration plants: pockets connected by rigid plastic connectors and placed in a stable plastic frame.

**Application:** as a pre-filter for absolute filters and as a filter of 2<sup>nd</sup> and 3<sup>rd</sup> stage of air purification in air conditioning, ventilation and heating systems, which require very high purity; thanks to high efficiency at low pressure drops the filters can be used in hospitals, offices, schools, theaters, shopping malls, hotels, paint shops, pharmaceutical, food, automotive, machinery, and other industries.

\* The final operating pressure drop of the filters should be checked in the technical documentation or consulted with the manufacturer of the equipment being operated.

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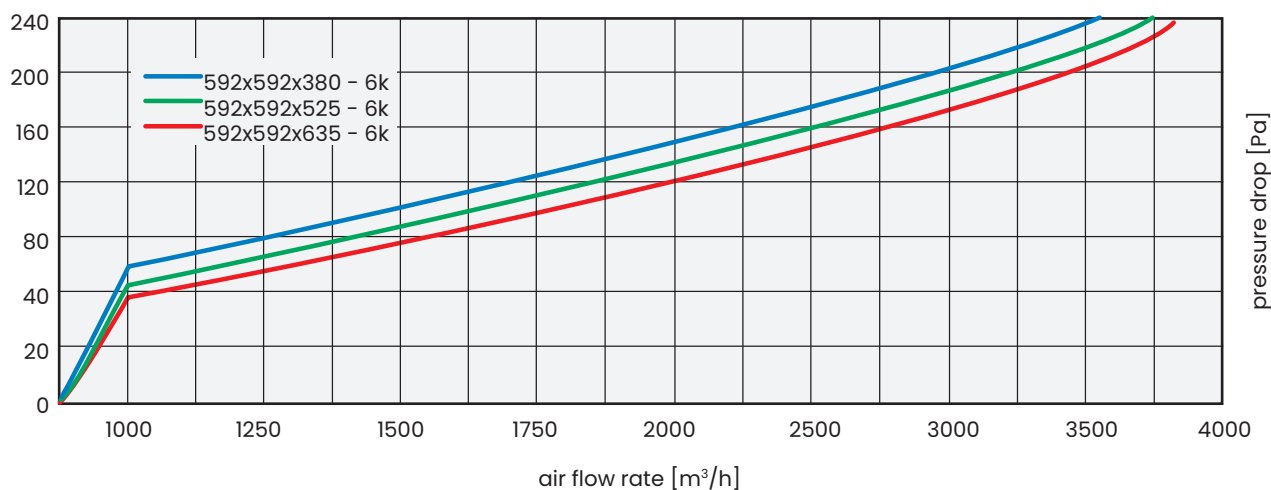


| Product                    | UT-9-6666 | UT-9-6656 | UT-9-6646 | UT-9-5665 | UT-9-5655 | UT-9-5645 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frame dimensions [mm]      | 592x592   |           |           | 490x592   |           |           |
| Number of pockets [n]      | 6         |           |           | 5         |           |           |
| Air flow rate [m³/h]       | 1700      |           |           | 1350      |           |           |
| Pocket depth [mm]          | 635       | 525       | 380       | 635       | 525       | 380       |
| Initial pressure drop [Pa] | 105       | 115       | 130       | 105       | 115       | 130       |

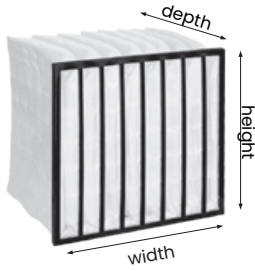
| Product                    | UT-9-3663 | UT-9-3653 | UT-9-3643 | UT-9-3363 | UT-9-3353 | UT-9-3343 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frame dimensions [mm]      | 287x592   |           |           | 287x287   |           |           |
| Number of pockets [n]      | 3         |           |           | 3         |           |           |
| Air flow rate [m³/h]       | 800       |           |           | 450       |           |           |
| Pocket depth [mm]          | 635       | 525       | 380       | 635       | 525       | 380       |
| Initial pressure drop [Pa] | 105       | 115       | 130       | 105       | 115       | 130       |



Pressure loss as a function of flow rate for UltraTec 9 filters



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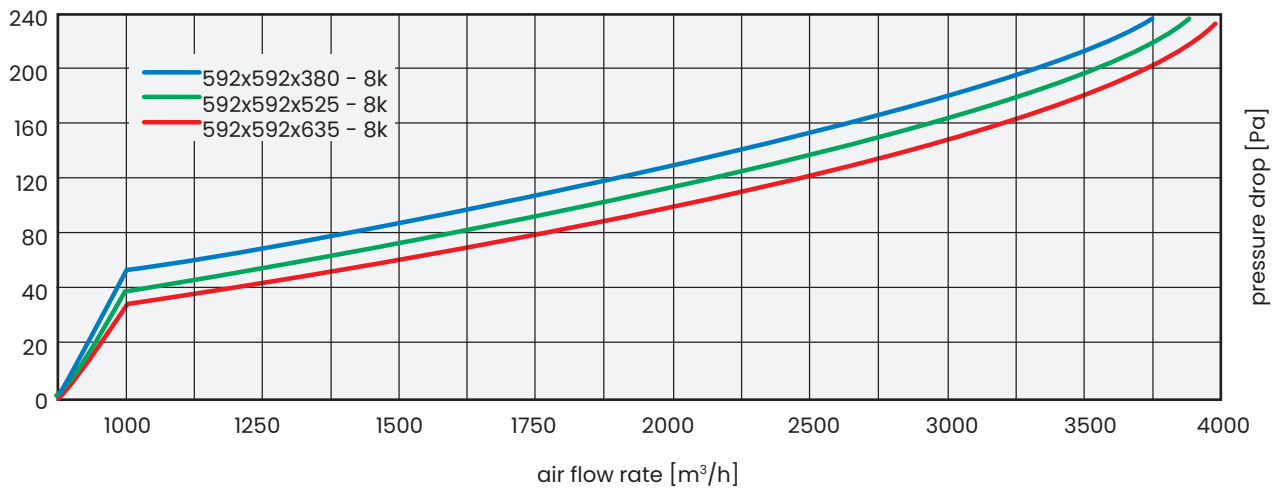


| Product                    | UT-9-6668 | UT-9-6658 | UT-9-6648 | UT-9-5666 | UT-9-5656 | UT-9-5646 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frame dimensions [mm]      | 592x592   |           |           | 490x592   |           |           |
| Number of pockets [n]      | 8         |           |           | 6         |           |           |
| Air flow rate [m³/h]       | 2700      |           |           | 2200      |           |           |
| Pocket depth [mm]          | 635       | 525       | 380       | 635       | 525       | 380       |
| Initial pressure drop [Pa] | 135       | 145       | 160       | 135       | 145       | 160       |

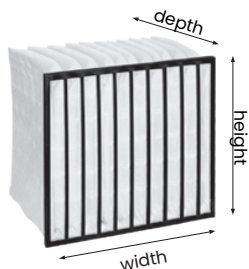
| Product                    | UT-9-3664 | UT-9-3654 | UT-9-3644 | UT-9-3364 | UT-9-3454 | UT-9-3344 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frame dimensions [mm]      | 287x592   |           |           | 287x287   |           |           |
| Number of pockets [n]      | 4         |           |           | 4         |           |           |
| Air flow rate [m³/h]       | 1200      |           |           | 700       |           |           |
| Pocket depth [mm]          | 635       | 525       | 380       | 635       | 525       | 380       |
| Initial pressure drop [Pa] | 135       | 145       | 160       | 135       | 145       | 160       |



Pressure loss as a function of flow rate for UltraTec 9 filters



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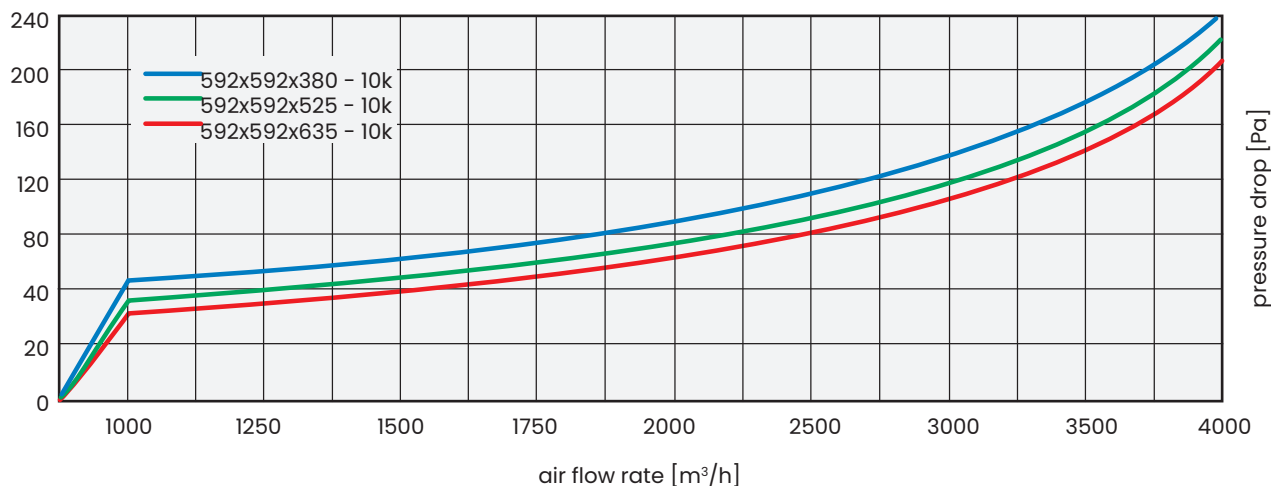


| Product                    | UT-9-66610 | UT-9-66510 | UT-9-66410 | UT-9-5668 | UT-9-5658 | UT-9-5648 |
|----------------------------|------------|------------|------------|-----------|-----------|-----------|
| Frame dimensions [mm]      | 592x592    |            |            | 490x592   |           |           |
| Number of pockets [n]      | 10         |            |            | 8         |           |           |
| Air flow rate [m³/h]       | 3400       |            |            | 2700      |           |           |
| Pocket depth [mm]          | 635        | 525        | 380        | 635       | 525       | 380       |
| Initial pressure drop [Pa] | 130        | 145        | 170        | 130       | 145       | 170       |

| Product                    | UT-9-3665 | UT-9-3655 | UT-9-3645 | UT-9-3365 | UT-9-3355 | UT-9-3345 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frame dimensions [mm]      | 287x592   |           |           | 287x287   |           |           |
| Number of pockets [n]      | 5         |           |           | 5         |           |           |
| Air flow rate [m³/h]       | 1700      |           |           | 800       |           |           |
| Pocket depth [mm]          | 635       | 525       | 380       | 635       | 525       | 380       |
| Initial pressure drop [Pa] | 130       | 145       | 170       | 130       | 145       | 170       |



Pressure loss as a function of flow rate for UltraTec 9 filters



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