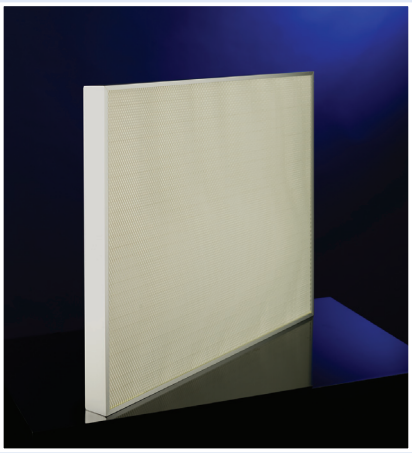
# HEPA-/ULPA-FILTER PANELS — HP-14/UP-15

**KALTHOFF HEPA- and ULPA-Filter panels** of filter classes H14 and U15 are made of high quality filter media and spacers of thermoplastic adhesive constructed to a self-supporting pack with optimized pleating geometry.

By variation of the pleating height Kalthoff can provide a customized performance. This is particularly important for cleanroom applications with their high pressure drop levels and their typical long-life cycles. Kalthoff HEPA-/ULPA-Filter panels offer low initial pressure drop and smooth pressure drop behaviour in operation.

Each Kalthoff filter panel of series 4.50 is provided with a both sided grid protection.

Each filter panel is single-tested per scan test and welded in plastics. All required technical data are labelled on the filters. A test certificate is enclosed to each delivery.

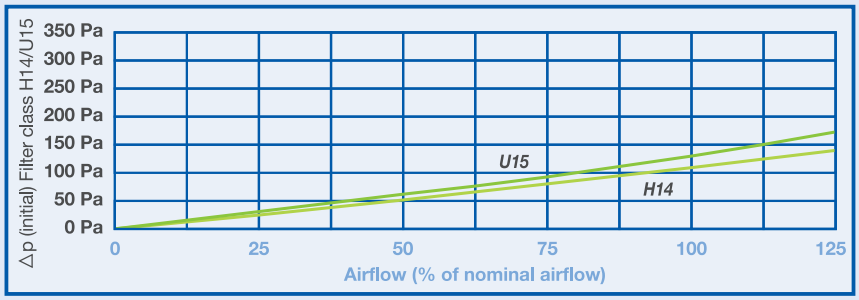


| Casing material |
|---|
| Anodized aluminium profile |
| **Gasket** |
| Continuous foam gasket (standard)<br>Flat profile gasket (optional) |

*Technical Data*

| Filter class acc. to EN 1822 | H14 | U15 |
|---|---|---|
| Nominal face velocity | 0,45 m/s | 0,45 m/s |
| Efficiency (MPPS) | ≥ 99,995 % | ≥ 99,9995 % |
| Initial pressure drop<br>Final pressure drop (rec.) | 110 Pa<br>400 Pa | 130 Pa<br>400 Pa |
| Max. operating temperature | 80 °C | 80 °C |
| Max. rel. humidity | 100 % | 100 % |
| Inflammability acc. to DIN 53438 | F1 | F1 |

*Pressure drop vs. airflow*




*Standards (other dimensions upon request)*

| Width [mm] | Height [mm] | Depth [mm] | Nominal airflow [m³/h] |
|---|---|---|---|
| 305 | 305 | 69 | 150 |
| 305 | 610 | 69 | 300 |
| 457 | 457 | 69 | 340 |
| 535 | 535 | 69 | 465 |
| 835 | 535 | 69 | 725 |
| 1135 | 535 | 69 | 985 |
| 610 | 610 | 69 | 605 |
| 762 | 610 | 69 | 755 |
| 915 | 610 | 69 | 905 |
| 1220 | 610 | 69 | 1205 |
| 1525 | 610 | 69 | 1505 |
| 1830 | 610 | 69 | 1810 |
| 762 | 762 | 69 | 940 |
| 915 | 762 | 69 | 1130 |
| 1220 | 762 | 69 | 1505 |
| 1525 | 762 | 69 | 1880 |
| 1830 | 762 | 69 | 2260 |
| 915 | 915 | 69 | 1355 |
| 1220 | 915 | 69 | 1805 |
| 1135 | 1135 | 69 | 2085 |

W 69 mm

Subject to modification due to continuous improvement, Version 05/10