

# HEPA-/ULPA-FILTER PANELS – HP-14/UP-15/UP-16

KALTHOFF HEPA- and ULPA-Filter panels of filter classes H14, U15 and U16 are made of high quality filter media and spacers of thermoplastic adhesive constructed to a self-supporting pack with optimized pleating geometry. The filters are fitted with a knife-edge slide profile for sealing systems provided by customer.

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.



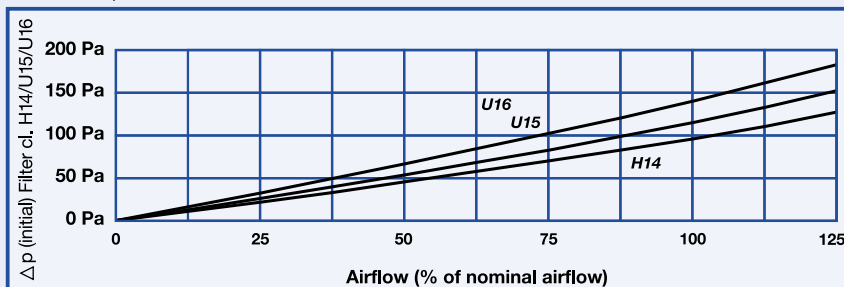
Standards (other dimensions upon request)

<b>Casing material</b>
Anodized aluminium with knife-edge slide profile
<b>Gasket</b>
Without gasket

Technical Data

Filter class acc. to EN 1822	H14	U15	U16
Nominal face velocity	0,45m/s	0,45m/s	0,45m/s
Efficiency (MPPS)	≥ 99,995 %	≥ 99,9995 %	≥ 99,99995 %
Initial pressure drop	95 Pa	115 Pa	140 Pa
Final pressure drop (rec.)	400 Pa	400 Pa	400 Pa
Max. operating temperature	80°C	80°C	80°C
Max. rel. humidity	80%	80%	80%
Inflammability acc. to DIN 53438	F1	F1	F1

Pressure drop vs. airflow



Width [mm]	Height [mm]	Depth [mm]	Nominal airflow [m³/h]
305	305	115	195
305	610	115	390
457	457	115	440
535	535	115	605
835	535	115	940
1135	535	115	1280
610	610	115	785
762	610	115	980
915	610	115	1175
1220	610	115	1565
1525	610	115	1955
1830	610	115	2355
762	762	115	1220
915	762	115	1470
1220	762	115	1955
1525	762	115	2445
1830	762	115	2940
915	915	115	1760
1220	915	115	2345
1135	1135	115	2710

W 115 mm

Subject to modification due to continuous improvement, Version 5/20