

AB / AA / ABH / AAH MAB / MAA / DAB / DAA



	AB-ABH - MAB-DAB	AA-AAH - MAA-DAA
EN 1822:2019 classification	H14	U15
MPPS efficiency	99,995%	99,9995%
Suggested final pressure drop	400 Pa	400 Pa
Maximum pressure drop	600 Pa	600 Pa
Maximum operating temperature	70 °C	70 °C
Maximum relative humidity	90%	90%

HEPA filters available in all HEPA and ULPA efficiency classes in various heights suitable for applications where a unidirectional flow is required. The compact structure typical of these filters simplifies the maintenance procedures and reduces the system down time.

MATERIAL AND FINISH

- Frame in anodized aluminum.
- Medium in fire-proof micro-fibre glass.
- Protective grids in epoxy painted anodized aluminum.
- Hot-melt separators.
- Bicomponent polyurethane sealant
- Semi-circular expanded polyurethane one-piece gasket.

APPLICATION

- In laminar flow hoods, isolators, downcross and LAF systems.

- In terminal filter housings (DIF - Pharmsafe) to ensure the best cleanliness level of pharmaceutical production zones, production machinery and weighing systems.
- In ceiling filtration systems of operating rooms and in ancillary rooms of the hospital sector.
- Inside exhaust grilles (DEC-A, DEC-S) in contamination controlled environments.
- In production tunnels in the electronics industry.

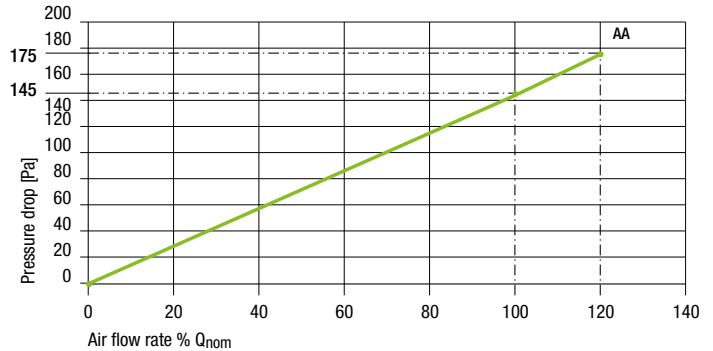
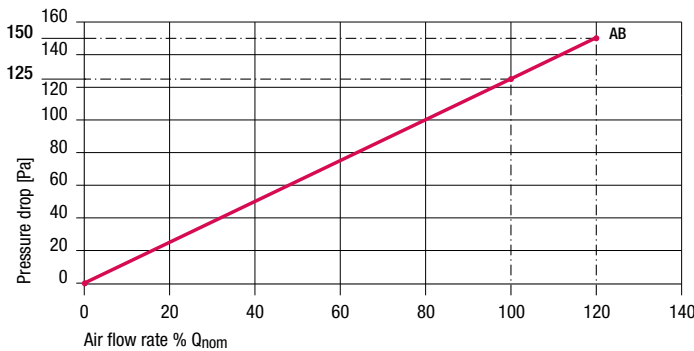
VERSIONS.

- ATEX II 2 GD T6.
- Seal (see page 88).
- LPD (20% lower initial pressure drop compared to the standard version).

ACCESSORIES

- Double gasket.
- Equalizer membrane.
- AISI 304 stainless steel protective grids.

CHARACTERISTIC CURVES



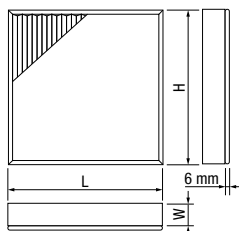
Q_{nom} is measured at face speed velocity of v_f 0,45 m/s

AB / AA / ABH / AAH**DIMENSIONS AND TECHNICAL DATA**

Code	Dimensions [mm]			Nominal air flow rate Q			Filtering surface [m ²]	Initial pressure drop [Pa]		AB €	AA €
	L	H	W	[m ³ /h]	[l/s]	[ft ³ /min]		AB	AA		
2	203	203	68	65	18	38	1	125	145		-
3	305	305	68	150	42	88	2,5	125	145	•	
42	305	610	68	300	84	177	5	125	145	•	
33	305	762	68	375	105	221	6	125	145		-
34	305	915	68	450	125	265	7	125	145		-
43	457	457	68	340	95	200	5,5	125	145	•	
41	457	610	68	450	125	265	7	125	145	•	
44	515	515	68	430	120	253	7	125	145	•	-
4	610	610	68	600	167	353	10	125	145	•	
7	610	762	68	750	209	441	12	125	145	•	
8	610	915	68	900	250	530	14	125	145	•	
9	610	1219	68	1200	333	706	20	125	145	•	
10	610	1524	68	1500	417	883	24	125	145	•	
11	610	1829	68	1800	500	1059	28	125	145	•	
71	762	762	68	940	261	553	15	125	145	•	
72	762	915	68	1130	314	665	18	125	145	•	
73	762	1219	68	1500	418	883	23	125	145	•	
74	762	1524	68	1880	523	1107	29	125	145	•	
75	762	1829	68	2260	627	1330	35	125	145	•	
82	915	915	68	1360	378	800	21	125	145		-
83	915	1219	68	1800	502	1059	28	125	145		-
84	915	1524	68	2260	627	1330	35	125	145		-
85	915	1829	68	2700	753	1589	42	125	145		-
96	1219	1219	68	2400	667	1413	40	125	145		-

• Products in stock

Code	Dimensions [mm]			Nominal air flow rate Q			Filtering surface [m ²]	Initial pressure drop [Pa]		ABH €	AAH €
	L	H	W	[m ³ /h]	[l/s]	[ft ³ /min]		ABH	AAH		
3	305	305	78	150	42	88	3	110	125		
42	305	610	78	300	84	177	6	110	125		
43	457	457	78	340	95	200	6,6	110	125		
41	457	610	78	450	125	265	8,4	110	125		
4	610	610	78	600	167	353	12	110	125		
7	610	762	78	750	209	441	14	110	125		
8	610	915	78	900	250	530	17	110	125		
9	610	1219	78	1200	333	706	24	110	125		
10	610	1524	78	1500	417	883	29	110	125		
11	610	1829	78	1800	500	1059	34	110	125		

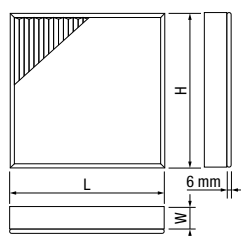


MAB / MAA

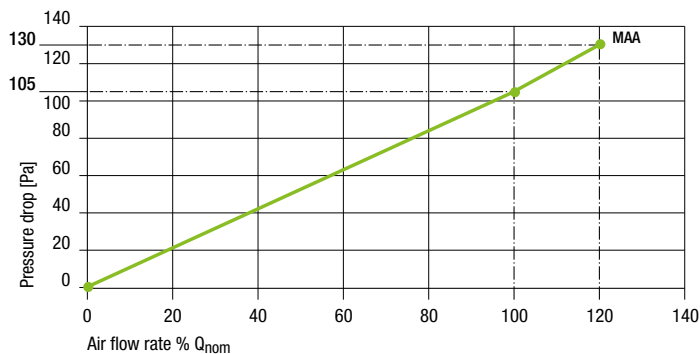
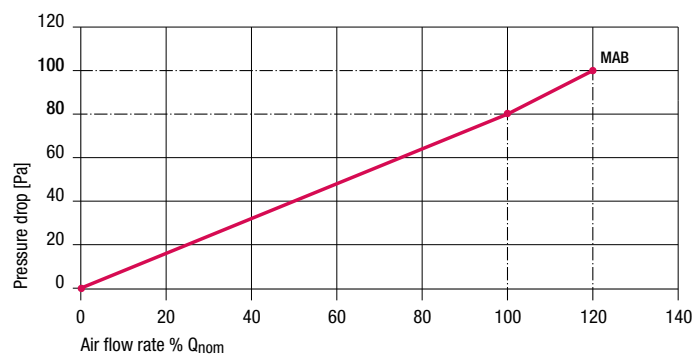
DIMENSIONS AND TECHNICAL DATA



Code	Dimensions [mm]			Nominal air flow rate Q			Filtering surface [m ²]	Initial pressure drop [Pa]		MAB €	MAA €
	L	H	W	[m ³ /h]	[l/s]	[ft ³ /min]		MAB	MAA		
3	305	305	90	150	42	88	3,6	80	105	-	-
42	305	610	90	300	84	177	7	80	105	-	-
33	305	762	90	375	105	221	9	80	105	-	-
34	305	915	90	450	125	265	11	80	105	-	-
43	457	457	90	340	95	200	8	80	105	-	-
41	457	610	90	450	125	265	11	80	105	-	-
4	610	610	90	600	167	353	15	80	105	-	-
7	610	762	90	750	209	441	18	80	105	-	-
8	610	915	90	900	250	530	22	80	105	-	-
9	610	1219	90	1200	333	706	29	80	105	-	-
72	762	915	90	1130	314	665	28	80	105	-	-
73	762	1219	90	1500	418	883	36	80	105	-	-
82	915	915	90	1360	378	800	33	80	105	-	-
83	915	1219	90	1800	502	1059	44	80	105	-	-



CHARACTERISTIC CURVES



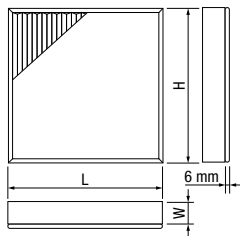
Q_{nom} is measured at face speed velocity of v_f 0,45 m/s

DAB / DAA

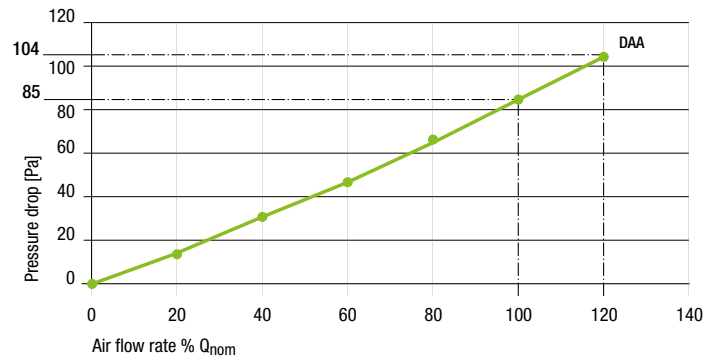
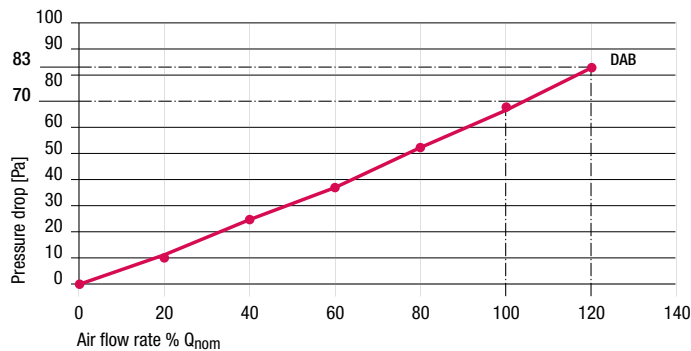
DIMENSIONS AND TECHNICAL DATA



Code	Dimensions [mm]			Nominal air flow rate Q			Filtering surface [m ²]	Initial pressure drop [Pa]		DAB €	DAA €
	L	H	W	[m ³ /h]	[l/s]	[ft ³ /min]		DAB	DAA		
3	305	305	115	150	42	88	5	70	85		-
42	305	610	115	300	84	177	10	70	85		
43	457	457	115	340	95	200	11	70	85		-
41	457	610	115	450	125	265	14	70	85		
4	610	610	115	600	167	353	20	70	85		
7	610	762	115	750	209	441	24	70	85		
8	610	915	115	900	250	530	28	70	85		
9	610	1219	115	1200	333	706	40	70	85		
72	762	915	115	1130	314	665	38	70	85		-
73	762	1219	115	1500	418	883	50	70	85		-
82	915	915	115	1360	378	800	45	70	85		-
83	915	1219	115	1800	502	1059	60	70	85		-



CHARACTERISTIC CURVES

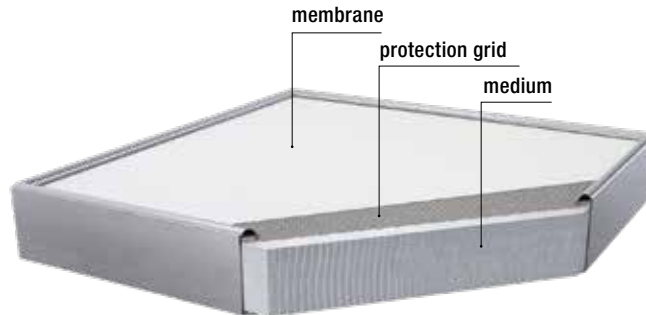


Q_{nom} is measured at face speed velocity of v_f 0,45 m/s

Filters can work up to 300% of their rated airflow value, but their efficiency would be one class downrated

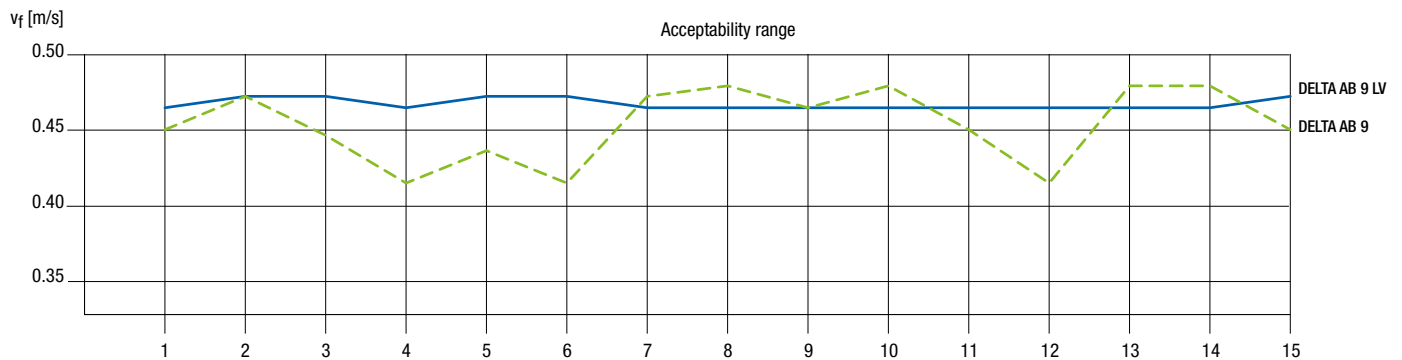
Special versions

LV VERSION



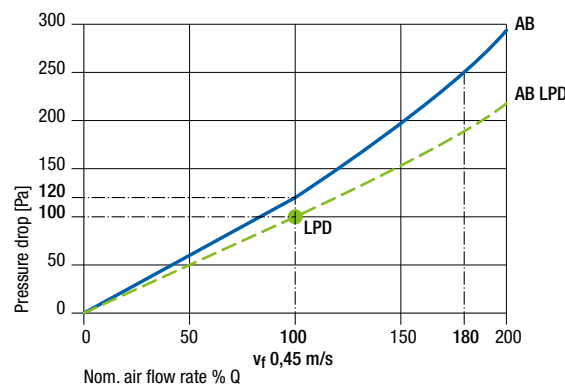
Thanks to a special equalizer downstream, it is possible to obtain both perfect air distribution over all the filter surface, with air velocity uniformity never achieved before with similar filters, and also a high degree of environmental purity according to the prescriptions of the various international regulations.

COMPARISON CURVE OF AIR DIFFUSION BETWEEN A TRADITIONAL MINI PLEATED FILTER AND DELTA-STAR FILTER WITH "LV" EQUALIZER



Note: The measurements have been performed in 3 points on the side 610mm with 200mm pitch on the side 1219mm.

LPD VERSION



The low pressure drop LPD version reduces the pressure drop, by about 20%.

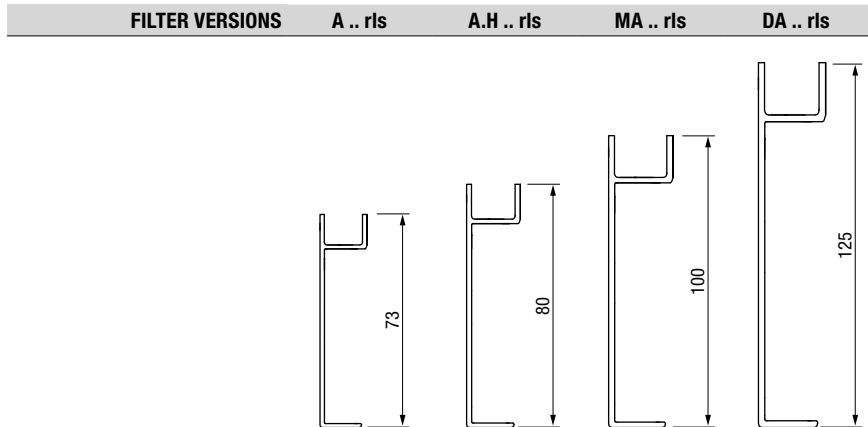
This solution is to be used for all systems since with reduction of the pressure drop there is a proportionate reduction of fan energy consumption, increased operating life of the filter and lower labour and disposal costs.

When these factors are satisfied, we can consider the system built "to the highest standard".

A.. rls / A.H.. rls / MA.. rls / DA.. rls A.. ls / A.. ls-est



rls
Reverse liquid seal version with gel gasket all around



Frame dimension W [mm]

Installation

In knife edge structures

Liquid seal

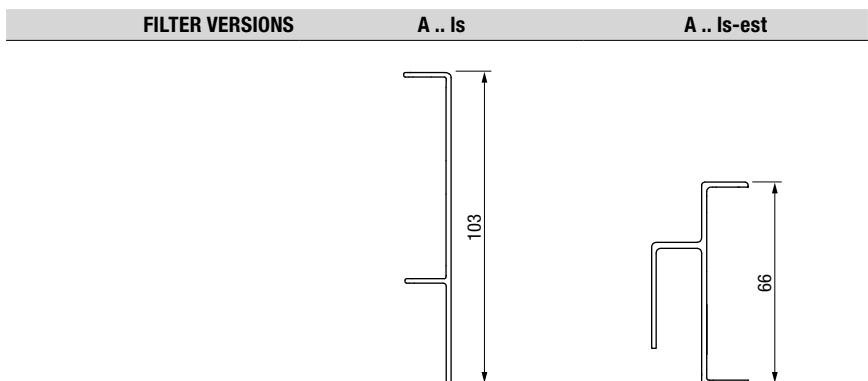
Polyurethane or silicone

Terminal filter housings for liquid seal filters

- **AB - AA rls** version with reverse liquid seal can be installed in the following terminal filter housings:
 - **DLS FL**: plenum and perforated plate diffuser.
 - **DLS WT**: plenum in anodized high induction swirl diffuser.
- **MAB - MAA rls / DAB - DAA rls** version with reverse liquid seal can be installed in the following terminal filter housings:
 - **DLS-2 FL**: plenum and perforated plate diffuser.
 - **DLS-2 WT**: plenum in anodized high induction swirl diffuser.

ls
Knife edge

ls-est
External knife edge



Frame dimension W [mm]

Installation

In liquid seal structure