



*"You breathe the difference"*

Filters Direct was established over 20 years ago with the sole objective of meeting and exceeding the clean air requirements within New Zealand. Our success in the industry is proof that our products and service meet all standards required.

All our products conform and are tested to the highest degree which currently is the ISO 16890 standard.

We have manufacturing plants in Auckland Wellington and Christchurch with knowledgeable staff operating from each location to ensure Nationwide coverage.

If you have been searching for a company that can offer proven quality products, excellent customer service within the filtration industry, your search is over, put our knowledge, quality products and pricing to work for you.



**"Your Guarantee of Excellence"**

# Capabilities and Standards

1



## Panel Filters

Fan-Coil Unit Filters  
High efficiency panel filters

2



## Pocket Bag Filters

G3-F9 Efficiencies

3



## Compact Filters

M5-F9 Efficiencies

4



## Grease Filters

Honeycomb  
Stainless Steel

5



## Hepa Filters & Hepa Hoods

E10-H14 Efficiencies

6



## Activated Carbon Filters

Refillable Units  
Compact units

7



## Filter Media G2 - G3 - G4 - Carbon

M5 media datasheet  
Paint Stop media data sheet

8



## Holding Frames

Stainless Steel HVAC Holding Frames  
Hepa Filter Holding Frames

9



## Evaporative Cooler Media

Evap-Pads

10

## NEW ISO16890 STANDARD

### Introduction

The ISO 16890 standard is the new global standard for testing and classification of air filters, and replaces the existing EN779:2012 norm. This new ISO 16890 standard is a big change in the way air filters are evaluated.

This new ISO 16890 test standard for air filters has been published in December 2016.

### Why a new filtration norm?

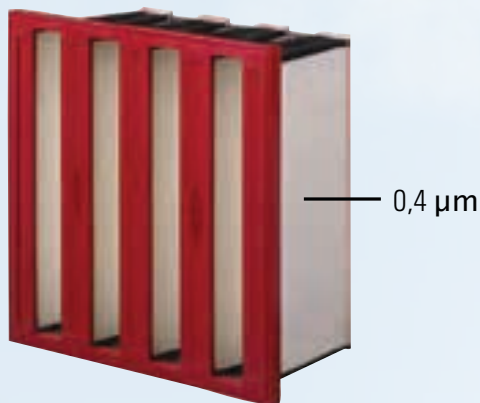
The new ISO16890 test method shifts the focus on filtration performance to the classes of particulate matter size (PM) and is therefore a much more realistic test criteria than the theoretical EN779:2012.

### What is different?

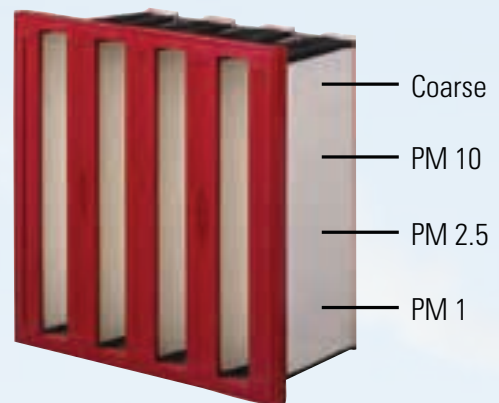
This means that with the new ISO16890 norm filter efficiencies will be determined based on particulate matter size classes PM1, PM2.5, PM10 and ISO Coarse, which are also used as evaluation parameters by the WHO (World Health Organization) and other authorities.

### PARTICLE SIZE - EN779 VS ISO 16890

#### ACCORDING EN779



#### ACCORDING ISO 16890



Based on these parameters it will be easier for users to select the right air filter based on their requirements.

## NEW ISO16890 STANDARD

### ISO16890 – the new group classification

The new ISO16890 standard divides air filters into four groups. A prerequisite for each group is that a filter captures at least 50% of the appropriate particle size range. If a filter, for example, captures more than 50% of PM1 particles, it will be grouped as an ISO ePM1 filter. The respective efficiency is then reported, rounded in 5 % increments. Alongside fine dust filters, the new ISO standard also evaluates coarse dust filters as ISO coarse: that is, filters that capture less than 50 % PM10.

### What does PM1 mean?

PM1 means all Particulate Matter with size smaller than 1 micron (a thousandth of a millimetre), just to be clear:

- 1 $\mu$ = 0.001mm
- 2.5 $\mu$ = 0.0025mm
- 10 $\mu$ = 0.01mm

With the introduction of the new ISO16890 standard, actual operating conditions will be more effectively taken into account. Instead of considering only the particle size 0.4 microns (EN779:2012), as previously, a broad range between 0.3 microns and 10 microns will be used to determine separation efficiencies for particulate matter fractions PM10, PM2,5 and PM1 (ISO16890). In order for an air filter to be rated to PM1 or any of the other PM sizes it will need to demonstrate a minimum efficiency of 50% and this will be recorded incrementally to the closest 5% – so a filter performing at 66% to PM1 particles will be rated at ePM1 65%.

For coarse filters the new standard will include filters that capture less than 50% of particles in the PM10 range – these will be known as “ISO Coarse” and will detail their PM10 performance i.e. “PM Coarse 45%”.

**Supply air, (SUP)** = Airflow entering the treated room, or air entering the system after any treatment

\* **MIN** filtration requirementS ISO ePM1 50%

\*\* **MIN** filtration requirementS ISO ePM2.5 50%

	PM2.5	PM10
<b>ODA1</b>	≤ 10 $\mu\text{g}/\text{m}^3$	≤ 20 $\mu\text{g}/\text{m}^3$
<b>ODA2</b>	≤ 15 $\mu\text{g}/\text{m}^3$	≤ 30 $\mu\text{g}/\text{m}^3$
<b>ODA3</b>	> 15 $\mu\text{g}/\text{m}^3$	> 30 $\mu\text{g}/\text{m}^3$

	ePM1 SUP1*	ePM1 SUP2*	ePM2.5 SUP3**	ePM10 SUP4	ePM10 SUP5
<b>ODA1</b>	60%	50%	60%	60%	50%
<b>ODA2</b>	80%	70%	70%	80%	60%
<b>ODA3</b>	90%	80%	80%	90%	80%
	<b>Industrial applications with high hygienic demands e.g. like:</b> <ul style="list-style-type: none"> <li>• hospitals</li> <li>• pharmaceuticals</li> <li>• electronics</li> <li>• supply air to clean rooms</li> </ul>	<b>Rooms for permanent occupation e.g. like:</b> <ul style="list-style-type: none"> <li>• kindergarten</li> <li>• offices</li> <li>• hotels</li> <li>• residential</li> <li>• meeting rooms</li> <li>• exhibition halls</li> <li>• conference halls</li> <li>• theatres</li> <li>• cinemas</li> <li>• concert halls</li> </ul> <b>Industrial applications with medium hygienic demands e.g. like:</b> <ul style="list-style-type: none"> <li>• food &amp; beverages production</li> </ul>	<b>Rooms with temporary occupation e.g. like:</b> <ul style="list-style-type: none"> <li>• storage</li> <li>• shopping centres</li> <li>• copier rooms</li> </ul> <b>Industrial applications with low hygienic demand e.g. like:</b> <ul style="list-style-type: none"> <li>• food &amp; beverages production with low hygienic demand</li> </ul>	<b>Rooms with short term occupation e.g. like:</b> <ul style="list-style-type: none"> <li>• rest rooms</li> <li>• storage rooms</li> <li>• stair ways</li> </ul> <b>Industrial applications without hygienic demands e.g. like:</b> <ul style="list-style-type: none"> <li>• general production areas in automotive industry</li> </ul>	<b>Rooms without occupation e.g. like:</b> <ul style="list-style-type: none"> <li>• garbage</li> <li>• data centres</li> <li>• underground car parks</li> </ul> <b>Production areas of the heavy industry e.g. like:</b> <ul style="list-style-type: none"> <li>• steel mill</li> <li>• smelters</li> <li>• welding plants</li> </ul>



### The benefits of ISO16890

The new standard offers several improvements when compared to the EN779 Standard:

- One global international standard
- The ISO16890 records their performance at a particle spectrum of 0.3 up to 10 microns (versus the EN779 test which qualified fine filter performance at 0.4 microns)
- Fractional efficiencies of the filter prior to and after IPA discharge of any electrostatic properties can be seen.
- Filters can be chosen for their specific performance related to the need of the application.

	<b>ISO Coarse</b>	<b>PM10</b>	<b>PM2.5</b>	<b>ePM1</b>
95%				
90%				
85%				HQ98
80%				HPQ-98, CP-F9,
75%				
70%				
65%				
60%				HQ85
55%				HPQ-85, CP-F7,
50%				HQ80
	<b>ISO Coarse</b>	<b>PM10</b>	<b>ePM2.5</b>	<b>PM1</b>
95%				
90%				
85%				
80%				
75%				
70%			LSB80	
65%				
60%				
55%			HPQ-65, CP-M6	
50%			HQ65	
	<b>ISO Coarse</b>	<b>ePM10</b>	<b>PM2.5</b>	<b>PM1</b>
95%				
90%				
85%				
80%				
75%		CP-M5		
70%		HQ55, LSB60, HD85		
65%				
60%		HPQ-AK-85		
55%				
50%				
	<b>ISO Coarse</b>	<b>PM10</b>	<b>PM2.5</b>	<b>PM1</b>
95%				
90%	HD55, HD65			
85%				
80%	HS55, HSB55, F360, F560G, PA560G			
75%				
70%	HS35, HSB35, T15/500, APMC, AERO, FP, APKK, DF500, HD35			
65%				
60%	NA45			
55%				
50%	GP-2", DF250, M57, PST290, PST640, T15/150, NA23, HSB25			
40%				
30%	DF150, NA11, GP-1"			

## PANEL FILTERS

### Qualities

Panel filters are filters which are characterised by their superior filtration properties. The synthetic filter medium is progressively constructed, which makes for a high particle interception level. This technology guarantees lower air resistance, which also entails reduced energy consumption.

### Advantages of panel filters

- Large filter surface
- High particle interception capacity
- Lengthy service life
- Low energy consumption
- Dimensions compliant with EN15805

### Application

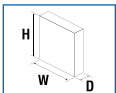
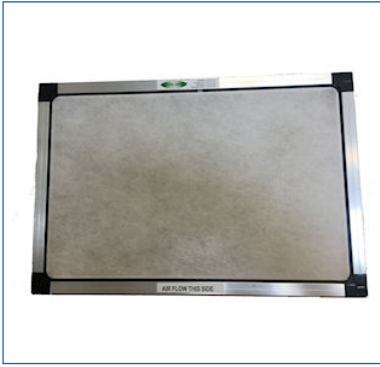
Panel filters are used as a pre-filter for air treatment cabinets, air conditioning systems and industrial systems.

### Installation

- Ensure that the filter is fitted correctly:
  - Suction side – clean air side
- Filter should be correctly installed: no leaks
- Gaskets should be completely undamaged
- Filter should be secured at four points
- Ensure that the filter medium is not folded double
- Take care to avoid damaging the filter during installation
- System should be run in for several hours to achieve the desired result
- Filter installation records; note the date, type and initial resistance.

**Fancoil Filters**

G2 G3



**SPECIFICATIONS**

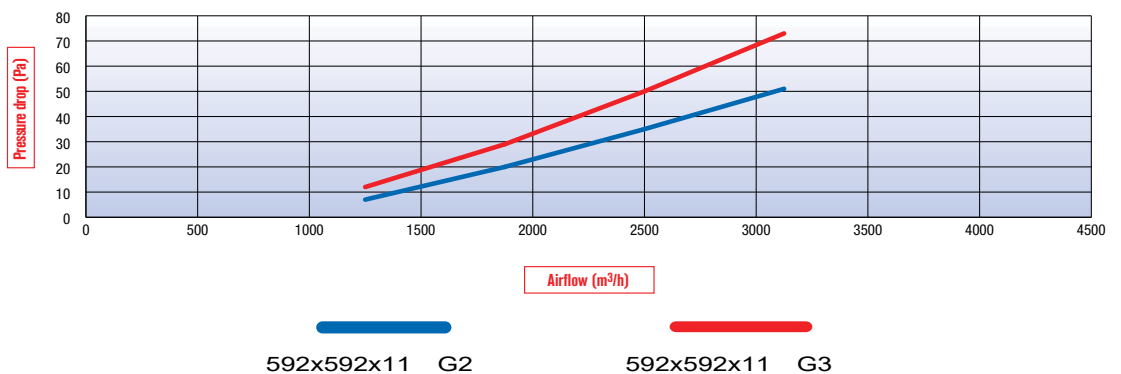
**Application:** Filter used with fan coil units  
**Frame:** Aluminium  
**Spacers:** -  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** -  
**Filter class according to ISO 16890:** ISO Coarse  
**Maximum final pressure drop:** 250Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

**ADVANTAGES**

- Possible usage in almost every Heat Recovery Unit. Please inquire about the possibilities
- Made To Any Size  
 Wire frames available  
 8mm Aluminium Frame Available

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter surface (m²)	Airflow (m³/h)	Pressure drop (Pa)	Energy label*
DF150	150x435x11	ISO Coarse 30%	0,07	500	35	-
DF150	237x415x11	ISO Coarse 30%	0,10	720	35	-
DF150	237x495x11	ISO Coarse 30%	0,12	860	35	-
DF150	250x595x11	ISO Coarse 30%	0,15	1080	35	-
DF150	330x710x11	ISO Coarse 30%	0,23	1650	35	-
DF150	340x490x11	ISO Coarse 30%	0,17	1220	35	-
DF150	365x445x11	ISO Coarse 30%	0,16	1150	35	-
DF150	430x710x11	ISO Coarse 30%	0,31	2220	35	-
DF150	440x490x11	ISO Coarse 30%	0,22	1580	35	-
DF150	465x465x11	ISO Coarse 30%	0,22	1580	35	-
DF150	465x565x11	ISO Coarse 30%	0,26	1870	35	-
DF150	490x640x11	ISO Coarse 30%	0,31	2230	35	-
DF150	530x710x11	ISO Coarse 30%	0,38	2730	35	-
DF150	540x600x11	ISO Coarse 30%	0,32	2300	35	-
DF150	540x700x11	ISO Coarse 30%	0,38	2730	35	-
DF250	237x415x11	ISO Coarse 50%	0,10	720	50	-
DF250	237x495x11	ISO Coarse 50%	0,12	860	50	-
DF250	250x595x11	ISO Coarse 50%	0,15	1080	50	-
DF250	330x710x11	ISO Coarse 50%	0,23	1650	50	-
DF250	340x490x11	ISO Coarse 50%	0,17	1220	50	-
DF250	365x445x11	ISO Coarse 50%	0,16	1150	50	-
DF250	430x710x11	ISO Coarse 50%	0,31	2230	50	-
DF250	440x490x11	ISO Coarse 50%	0,22	1580	50	-
DF250	465x465x11	ISO Coarse 50%	0,22	1580	50	-
DF250	465x565x11	ISO Coarse 50%	0,26	1870	50	-
DF250	490x640x11	ISO Coarse 50%	0,31	2230	50	-
DF250	530x710x11	ISO Coarse 50%	0,38	2730	50	-
DF250	540x600x11	ISO Coarse 50%	0,32	2300	50	-
DF250	540x700x11	ISO Coarse 50%	0,38	2730	50	-

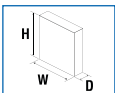
**Fancoil Series**



## Panel filters

### V-Pleat Filters

ISO Coarse G4



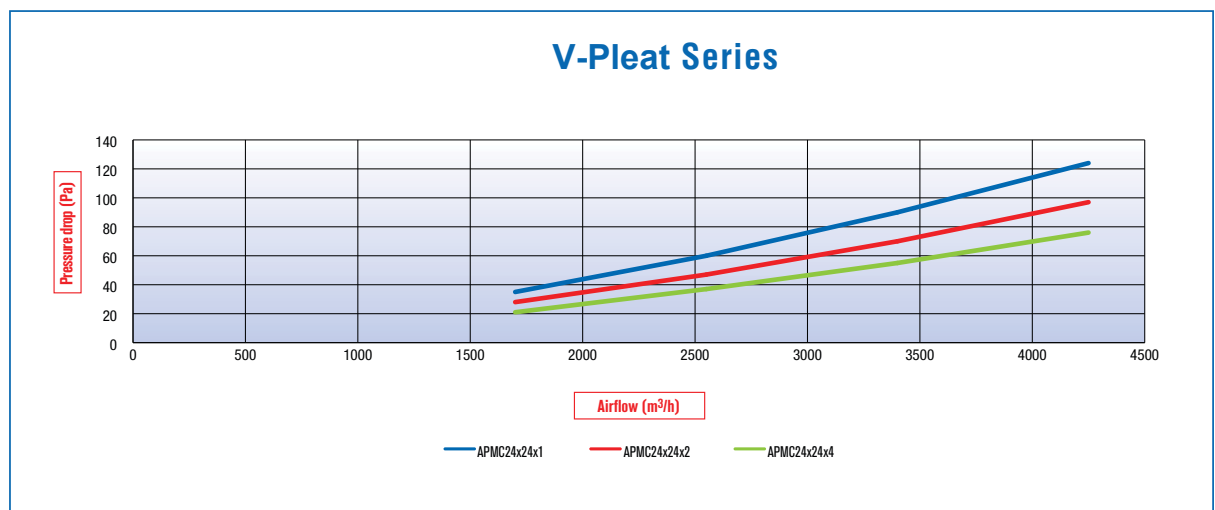
### SPECIFICATIONS

**Application:** Prefilter HVAC, industry, spray booth  
**Frame:** Aluminium or Stainless  
**Spacers:** -  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ISO Coarse  
**Maximum final pressure drop:** 250Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Straightforward assembly
- Firm construction

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
VPF-12x24x1	287x592x25	ISO Coarse 70%	G4	0,4	1700	90	36	600x600x480	-
VPF-16x20x1	394x490x25	ISO Coarse 70%	G4	0,5	1880	90	20	500x400x500	-
VPF-16x24x1	394x592x25	ISO Coarse 70%	G4	0,6	2250	90	26	600x600x500	-
VPF-16x25x1	394x620x25	ISO Coarse 70%	G4	0,6	2350	90	26	640x510x530	-
VPF-20x20x1	490x490x25	ISO Coarse 70%	G4	0,6	2350	90	19	500x500x500	-
VPF-20x24x1	490x592x25	ISO Coarse 70%	G4	0,7	2800	90	24	640x510x530	-
VPF-20x25x1	490x620x25	ISO Coarse 70%	G4	0,7	2900	90	22	640x510x530	-
VPF-24x24x1	592x592x25	ISO Coarse 70%	G4	0,8	3400	90	19	600x600x500	-
VPF-12x24x2	287x592x45	ISO Coarse 70%	G4	0,4	1700	70	20	600x600x480	-
VPF-16x20x2	394x490x45	ISO Coarse 70%	G4	0,5	1880	70	10	500x400x500	-
VPF-16x24x2	394x592x45	ISO Coarse 70%	G4	0,6	2250	70	14	600x600x500	-
VPF-16x25x2	394x620x45	ISO Coarse 70%	G4	0,6	2350	70	13	640x510x530	-
VPF-20x20x2	490x490x45	ISO Coarse 70%	G4	0,6	2350	70	10	500x500x500	-
VPF-20x24x2	490x592x45	ISO Coarse 70%	G4	0,7	2800	70	12	600x600x500	-
VPF-20x25x2	490x620x45	ISO Coarse 70%	G4	0,8	2900	70	11	640x510x530	-
VPF-24x24x2	592x592x45	ISO Coarse 70%	G4	0,9	3400	70	10	600x600x480	-
VPF-12x24x4	287x592x96	ISO Coarse 70%	G4	0,6	1700	55	10	600x600x500	-
VPF-16x20x4	394x490x96	ISO Coarse 70%	G4	0,7	1880	55	8	640x510x530	-
VPF-16x24x4	394x592x96	ISO Coarse 70%	G4	0,9	2250	55	7	600x600x500	-
VPF-16x25x4	394x620x96	ISO Coarse 70%	G4	0,9	2350	55	7	640x510x530	-
VPF-20x20x4	490x490x96	ISO Coarse 70%	G4	0,9	2350	55	5	500x500x500	-
VPF-20x24x4	490x592x96	ISO Coarse 70%	G4	1,1	2800	55	5	640x510x530	-
VPF-20x25x4	490x620x96	ISO Coarse 70%	G4	1,1	2900	55	5	500x630x500	-
VPF-24x24x4	592x592x96	ISO Coarse 70%	G4	1,3	3400	55	5	600x600x500	-

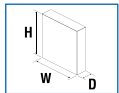




# Panel filters

## Eco- Panels

ISO Coarse G4



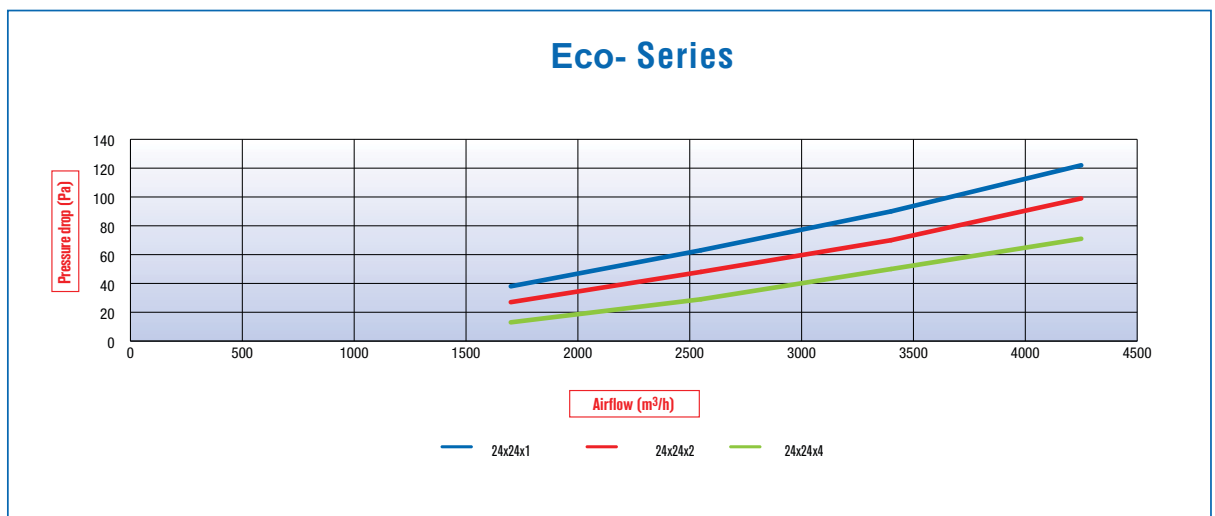
### SPECIFICATIONS

**Application:** HVAC, industry  
**Frame:** Plastic  
**Spacers:** -  
**Bonding:** 2 component polyurethane  
**Medium:** Synthetic - PET  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ISO Coarse  
**Maximum final pressure drop:** 250Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Very low pressure drop
- Robust construction
- Totally combustible
- No corrosion

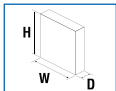
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
ECO-12x24x1	287x592x25	ISO Coarse 70%	G4	0,4	1700	90	24	600x600x300	-
ECO-16x20x1	394x490x25	ISO Coarse 70%	G4	0,4	1880	90	28	640x510x530	-
ECO-16x24x1	394x592x25	ISO Coarse 70%	G4	0,5	2250	90	24	640x510x530	-
ECO-16x25x1	394x620x25	ISO Coarse 70%	G4	0,6	2350	90	28	640x510x530	-
ECO-20x20x1	490x490x25	ISO Coarse 70%	G4	0,6	2350	90	27	640x510x530	-
ECO-20x24x1	490x592x25	ISO Coarse 70%	G4	0,7	2800	90	24	640x510x530	-
ECO-20x25x1	490x620x25	ISO Coarse 70%	G4	0,7	2900	90	22	640x510x530	-
ECO-24x24x1	592x592x25	ISO Coarse 70%	G4	0,8	3400	90	20	600x600x500	-
ECO-12x24x2	287x592x48	ISO Coarse 70%	G4	0,5	1700	70	12	600x600x300	-
ECO-16x20x2	394x490x48	ISO Coarse 70%	G4	0,6	1880	70	10	500x400x500	-
ECO-16x24x2	394x592x48	ISO Coarse 70%	G4	0,7	2250	70	15	640x510x530	-
ECO-16x25x2	394x620x48	ISO Coarse 70%	G4	0,8	2350	70	13	640x510x530	-
ECO-20x20x2	490x490x48	ISO Coarse 70%	G4	0,8	2350	70	14	640x510x530	-
ECO-20x24x2	490x592x48	ISO Coarse 70%	G4	0,9	2800	70	6	600x500x300	-
ECO-20x25x2	490x620x48	ISO Coarse 70%	G4	1,0	2900	70	11	640x510x530	-
ECO-24x24x2	592x592x48	ISO Coarse 70%	G4	1,1	3400	70	6	600x600x300	-
ECO-12x24x4	287x592x96	ISO Coarse 70%	G4	1,1	1700	50	6	600x600x300	-
ECO-16x20x4	394x490x96	ISO Coarse 70%	G4	1,2	1880	50	8	640x510x530	-
ECO-16x24x4	394x592x96	ISO Coarse 70%	G4	1,5	2250	50	6	640x510x530	-
ECO-16x25x4	394x620x96	ISO Coarse 70%	G4	1,5	2350	50	5	640x400x500	-
ECO-20x20x4	490x490x96	ISO Coarse 70%	G4	1,5	2350	50	5	500x500x500	-
ECO-20x24x4	490x592x96	ISO Coarse 70%	G4	1,8	2800	50	3	600x500x300	-
ECO-20x25x4	490x620x96	ISO Coarse 70%	G4	1,9	2900	50	5	640x510x530	-
ECO-24x24x4	592x592x96	ISO Coarse 70%	G4	2,2	3400	50	3	600x600x300	-



## Panel filters

### AQUA Panel

ISO Coarse G4



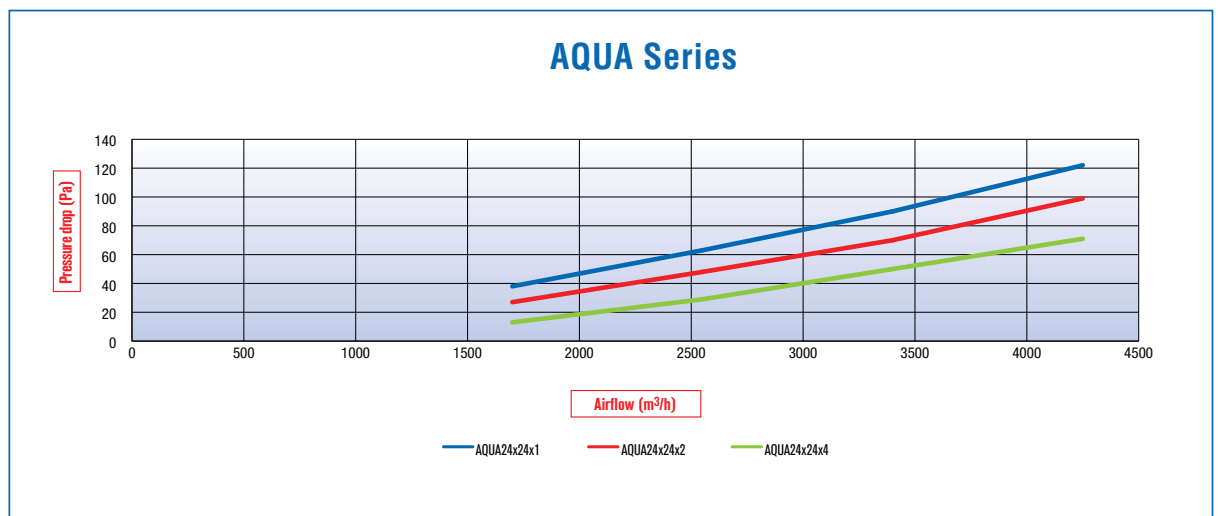
### SPECIFICATIONS

**Application:** HVAC, industry  
**Frame:** Plastic  
**Spacers:** -  
**Bonding:** 2 component polyurethane  
**Medium:** Synthetic - PET, hydrophobe  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ISO Coarse  
**Maximum final pressure drop:** 250Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 100%

### ADVANTAGES

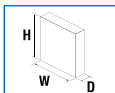
- Water-repellent filter media
- Very low pressure drop
- Robust construction
- Totally combustible
- No corrosion

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
AQUA12x24x1	287x592x22	ISO Coarse 70%	G4	0,4	1700	90	24	600x600x300	-
AQUA16x20x1	394x490x22	ISO Coarse 70%	G4	0,4	1880	90	28	640x510x530	-
AQUA16x24x1	394x592x22	ISO Coarse 70%	G4	0,5	2250	90	24	640x510x530	-
AQUA16x25x1	394x620x22	ISO Coarse 70%	G4	0,6	2350	90	28	640x510x530	-
AQUA20x20x1	490x490x22	ISO Coarse 70%	G4	0,6	2350	90	27	640x510x530	-
AQUA20x24x1	490x592x22	ISO Coarse 70%	G4	0,7	2800	90	24	640x510x530	-
AQUA20x25x1	490x620x22	ISO Coarse 70%	G4	0,7	2900	90	22	640x510x530	-
AQUA24x24x1	592x592x22	ISO Coarse 70%	G4	0,8	3400	90	20	600x600x500	-
AQUA12x24x2	287x592x48	ISO Coarse 70%	G4	0,5	1700	70	12	600x600x300	-
AQUA16x20x2	394x490x48	ISO Coarse 70%	G4	0,6	1880	70	10	500x400x500	-
AQUA16x24x2	394x592x48	ISO Coarse 70%	G4	0,7	2250	70	15	640x510x530	-
AQUA16x25x2	394x620x48	ISO Coarse 70%	G4	0,8	2350	70	13	640x510x530	-
AQUA20x20x2	490x490x48	ISO Coarse 70%	G4	0,8	2350	70	14	640x510x530	-
AQUA20x24x2	490x592x48	ISO Coarse 70%	G4	0,9	2800	70	6	600x500x300	-
AQUA20x25x2	490x620x48	ISO Coarse 70%	G4	1,0	2900	70	11	640x510x530	-
AQUA24x24x2	592x592x48	ISO Coarse 70%	G4	1,1	3400	70	6	600x600x300	-
AQUA12x24x4	287x592x96	ISO Coarse 70%	G4	1,1	1700	50	6	600x600x300	-
AQUA16x20x4	394x490x96	ISO Coarse 70%	G4	1,2	1880	50	8	640x510x530	-
AQUA16x24x4	394x592x96	ISO Coarse 70%	G4	1,5	2250	50	6	640x510x530	-
AQUA16x25x4	394x620x96	ISO Coarse 70%	G4	1,5	2350	50	5	640x400x500	-
AQUA20x20x4	490x490x96	ISO Coarse 70%	G4	1,5	2350	50	5	500x500x500	-
AQUA20x24x4	490x592x96	ISO Coarse 70%	G4	1,8	2800	50	3	600x500x300	-
AQUA20x25x4	490x620x96	ISO Coarse 70%	G4	1,9	2900	50	5	640x510x530	-
AQUA24x24x4	592x592x96	ISO Coarse 70%	G4	2,2	3400	50	3	600x600x300	-



## DF Panel

ISO Coarse G4



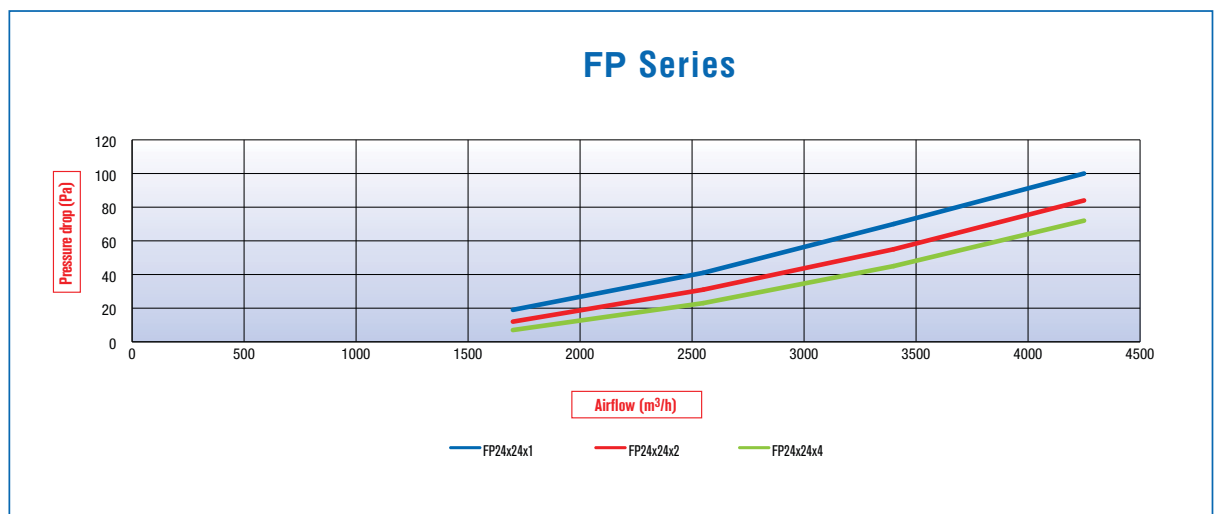
### SPECIFICATIONS

**Application:** Prefilter HVAC, industry, spray booth  
**Frame:** Firm cardboard frame  
**Spacers:** -  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ISO Coarse  
**Maximum final pressure drop:** 250Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Straightforward assembly
- Totally combustible
- Lower pressure drop

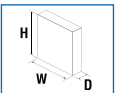
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
DF12x24x1	289x594x23	ISO Coarse 70%	G4	0,4	1700	70	40	600x600x480	-
DF16x20x1	394x495x23	ISO Coarse 70%	G4	0,5	1880	70	32	640x510x530	-
DF16x25x1	394x622x23	ISO Coarse 70%	G4	0,6	2350	70	27	640x510x530	-
DF20x20x1	495x495x23	ISO Coarse 70%	G4	0,6	2350	70	29	640x510x530	-
DF20x24x1	495x594x23	ISO Coarse 70%	G4	0,7	2800	70	24	640x510x530	-
DF20x25x1	495x622x23	ISO Coarse 70%	G4	0,7	2900	70	22	640x510x530	-
DF24x24x1	594x594x23	ISO Coarse 70%	G4	0,9	3400	70	20	600x600x480	-
DF12x24x2	289x594x45	ISO Coarse 70%	G4	0,6	1700	55	20	600x600x460	-
DF16x20x2	394x495x45	ISO Coarse 70%	G4	0,7	1880	55	16	640x510x530	-
DF16x25x2	394x622x45	ISO Coarse 70%	G4	0,8	2350	55	13	640x510x530	-
DF20x20x2	495x495x45	ISO Coarse 70%	G4	0,9	2350	55	10	500x500x500	-
DF20x24x2	495x594x45	ISO Coarse 70%	G4	1,1	2800	55	12	600x600x500	-
DF20x25x2	495x622x45	ISO Coarse 70%	G4	1,2	2900	55	12	640x510x530	-
DF24x24x2	594x594x45	ISO Coarse 70%	G4	1,4	3400	55	10	600x600x460	-
DF12x24x4	289x594x94	ISO Coarse 70%	G4	1,3	1700	45	10	600x600x480	-
DF16x20x4	394x495x94	ISO Coarse 70%	G4	1,6	1880	45	8	640x510x530	-
DF16x25x4	394x622x94	ISO Coarse 70%	G4	2,0	2350	45	7	640x510x530	-
DF20x20x4	495x495x94	ISO Coarse 70%	G4	1,9	2350	45	5	500x500x500	-
DF20x24x4	495x594x94	ISO Coarse 70%	G4	2,3	2800	45	6	600x600x500	-
DF20x25x4	495x622x94	ISO Coarse 70%	G4	2,4	2900	45	5	640x510x530	-
DF24x24x4	594x594x94	ISO Coarse 70%	G4	2,9	3400	45	5	600x600x480	-



# Panel filters

## RB Panel

ISO Coarse G4



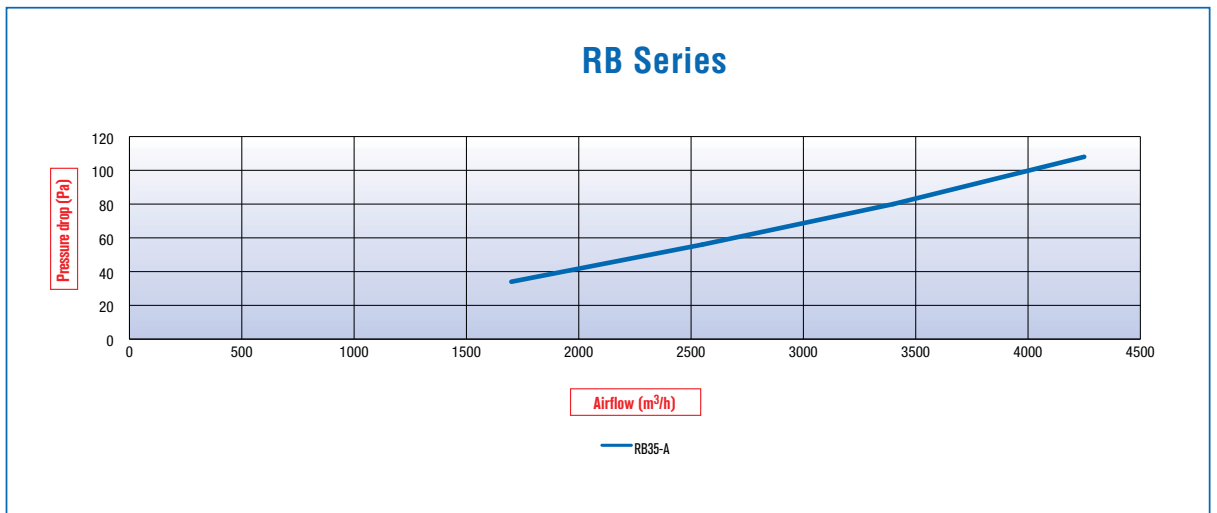
### SPECIFICATIONS

**Application:** HVAC, industry  
**Frame:** Plastic flange  
**Spacers:** -  
**Bonding:** 2 component polyurethane  
**Medium:** Synthetic - PET, hydrophobe  
**Gasket:** -  
**Filter class according to ISO 16890:** ISO Coarse  
**Maximum final pressure drop:** 600Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 100%

### ADVANTAGES

- Extra pre filter to add to existing filter configuration
- Water-repellent filter media

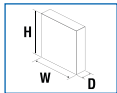
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
RB35-A	592x592x96	ISO Coarse 70%	G4	1,6	3400	80	3	600x600x300	-
RB35-B	490x592x96	ISO Coarse 70%	G4	1,3	2800	80	3	600x500x300	-
RB35-C	288x592x96	ISO Coarse 70%	G4	0,8	1700	80	6	600x600x300	-



# Panel filters

## CP Panel

ePM10 ePM2,5 ePM1 M5 M6 F7 F9



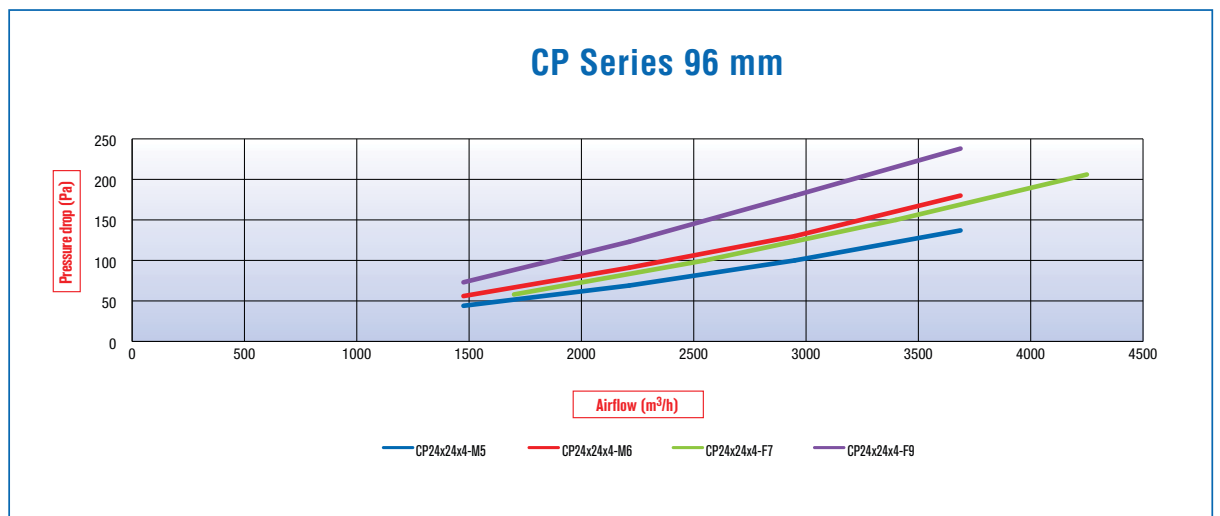
### SPECIFICATIONS

**Application:** HVAC  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ePM10, ePM2,5, ePM1  
**Maximum final pressure drop:** 450 Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Compact construction
- Robust construction
- Totally combustible
- Also available with flange for easy mounting in holding frame

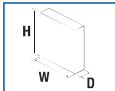
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	MTE values (%)	# Filters/box	Dimensions box (mm)	Energy label*
CP24x24x2-M5	592x592x48	ePM10 75%	M5	5,8	2950	95	-	6	600x600x300	-
CP20x24x2-M5	490x592x48	ePM10 75%	M5	4,7	2450	95	-	6	600x500x300	-
CP12x24x2-M5	287x592x48	ePM10 75%	M5	2,7	1450	95	-	12	600x600x300	-
CP24x24x4-M5	592x592x96	ePM10 75%	M5	10,7	2950	100	-	3	600x600x300	-
CP20x24x4-M5	490x592x96	ePM10 75%	M5	8,8	2450	100	-	3	600x500x300	-
CP12x24x4-M5	287x592x96	ePM10 75%	M5	5,0	1450	100	-	6	600x600x300	-
CP24x24x2-M6	592x592x48	ePM2,5 55%	M6	5,8	2950	110	-	6	600x600x300	-
CP20x24x2-M6	490x592x48	ePM2,5 55%	M6	4,7	2450	110	-	6	600x500x300	-
CP12x24x2-M6	287x592x48	ePM2,5 55%	M6	2,7	1450	110	-	12	600x600x300	-
CP24x24x4-M6	592x592x96	ePM2,5 55%	M6	10,7	2950	130	-	3	600x600x300	-
CP20x24x4-M6	490x592x96	ePM2,5 55%	M6	8,8	2450	130	-	3	600x500x300	-
CP12x24x4-M6	287x592x96	ePM2,5 55%	M6	5,0	1450	130	-	6	600x600x300	-
CP24x24x2-F7	592x592x48	ePM1 55%	F7	5,8	3400	180	45	6	600x600x300	E
CP20x24x2-F7	490x592x48	ePM1 55%	F7	4,7	2800	180	45	6	600x500x300	E
CP12x24x2-F7	287x592x48	ePM1 55%	F7	2,7	1700	180	45	12	600x600x300	E
CP24x24x4-F7	592x592x96	ePM1 55%	F7	10,7	3400	150	45	3	600x600x300	E
CP20x24x4-F7	490x592x96	ePM1 55%	F7	8,8	2800	150	45	3	600x500x300	E
CP12x24x4-F7	287x592x96	ePM1 55%	F7	5,0	1700	150	45	6	600x600x300	E
CP24x24x2-F9	592x592x48	ePM1 80%	F9	5,8	2950	215	70	6	600x600x300	-
CP20x24x2-F9	490x592x48	ePM1 80%	F9	4,7	2450	215	70	6	600x500x300	-
CP12x24x2-F9	287x592x48	ePM1 80%	F9	2,7	1450	215	70	12	600x600x300	-
CP24x24x4-F9	592x592x96	ePM1 80%	F9	10,7	2950	180	70	3	600x600x300	-
CP20x24x4-F9	490x592x96	ePM1 80%	F9	8,8	2450	180	70	3	600x500x300	-
CP12x24x4-F9	287x592x96	ePM1 80%	F9	5,0	1450	180	70	6	600x600x300	-



# Panel filters

## CP/FL Panel

ePM10 ePM2,5 ePM1 M5 M6 F7 F9



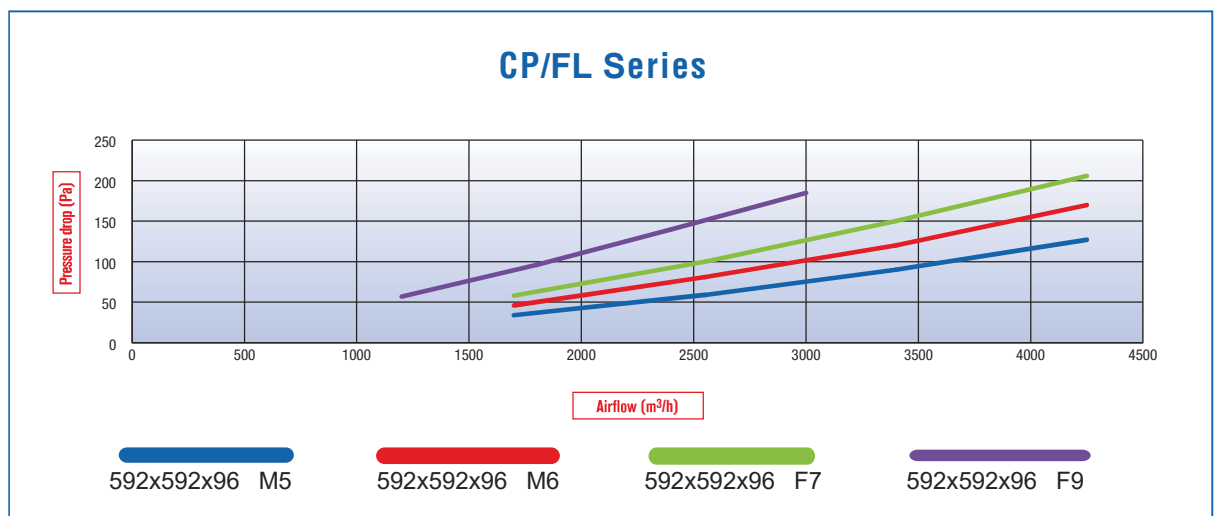
### SPECIFICATIONS

**Application:** HVAC  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ePM10, ePM2,5, ePM1  
**Maximum final pressure drop:** 450 Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Compact construction
- Firm construction

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	MTE values (%)	# Filters/box	Dimensions box (mm)	Energy label*
CP24x24x2-M5	592x592x48	ePM10 75%	M5	5,8	2950	95	-	6	600x600x300	-
CP20x24x2-M5	490x592x48	ePM10 75%	M5	4,7	2450	95	-	6	600x500x300	-
CP12x24x2-M5	287x592x48	ePM10 75%	M5	2,7	1450	95	-	12	600x600x300	-
CP24x24x4-M5	592x592x96	ePM10 75%	M5	10,7	2950	100	-	3	600x600x300	-
CP20x24x4-M5	490x592x96	ePM10 75%	M5	8,8	2450	100	-	3	600x500x300	-
CP12x24x4-M5	287x592x96	ePM10 75%	M5	5,0	1450	100	-	6	600x600x300	-
CP24x24x2-M6	592x592x48	ePM2,5 55%	M6	5,8	2950	110	-	6	600x600x300	-
CP20x24x2-M6	490x592x48	ePM2,5 55%	M6	4,7	2450	110	-	6	600x500x300	-
CP12x24x2-M6	287x592x48	ePM2,5 55%	M6	2,7	1450	110	-	12	600x600x300	-
CP24x24x4-M6	592x592x96	ePM2,5 55%	M6	10,7	2950	130	-	3	600x600x300	-
CP20x24x4-M6	490x592x96	ePM2,5 55%	M6	8,8	2450	130	-	3	600x500x300	-
CP12x24x4-M6	287x592x96	ePM2,5 55%	M6	5,0	1450	130	-	6	600x600x300	-
CP24x24x2-F7	592x592x48	ePM1 55%	F7	5,8	3400	180	45	6	600x600x300	E
CP20x24x2-F7	490x592x48	ePM1 55%	F7	4,7	2800	180	45	6	600x500x300	E
CP12x24x2-F7	287x592x48	ePM1 55%	F7	2,7	1700	180	45	12	600x600x300	E
CP24x24x4-F7	592x592x96	ePM1 55%	F7	10,7	3400	150	45	3	600x600x300	E
CP20x24x4-F7	490x592x96	ePM1 55%	F7	8,8	2800	150	45	3	600x500x300	E
CP12x24x4-F7	287x592x96	ePM1 55%	F7	5,0	1700	150	45	6	600x600x300	E
CP24x24x2-F9	592x592x48	ePM1 80%	F9	5,8	2950	215	70	6	600x600x300	-
CP20x24x2-F9	490x592x48	ePM1 80%	F9	4,7	2450	215	70	6	600x500x300	-
CP12x24x2-F9	287x592x48	ePM1 80%	F9	2,7	1450	215	70	12	600x600x300	-
CP24x24x4-F9	592x592x96	ePM1 80%	F9	10,7	2950	180	70	3	600x600x300	-
CP20x24x4-F9	490x592x96	ePM1 80%	F9	8,8	2450	180	70	3	600x500x300	-
CP12x24x4-F9	287x592x96	ePM1 80%	F9	5,0	1450	180	70	6	600x600x300	-



# Aqua 150

---

**Product:** AQUA24x24x6/FL/P4

---

## 1. General Information

---

<b>Type of Product</b>	:	Panel filter
<b>Filter Frame</b>	:	Plastic, polystyrene
<b>Spacer</b>	:	-
<b>Gasket</b>	:	Neoprene flat gasket at clean side
<b>Bonding</b>	:	2 Component polyurethane
<b>Grid</b>	:	No grid
<b>Flange</b>	:	Flange

---

## 2. Technical Information Filter Media

---

<b>Type of Filter Media</b>	:	100 % Polyester, hydrophobic
<b>Media Structure</b>	:	Progressive structure, mechanical, thermal, both sides calandered, hydrophobic (water repellent) pleated media
<b>Base Weight</b>	:	200 g/m <sup>2</sup>
<b>Thickness</b>	:	3,00 mm
<b>Flammability (acc. DIN 53438)</b>	:	-

---

## 3. Technical Specification Filter

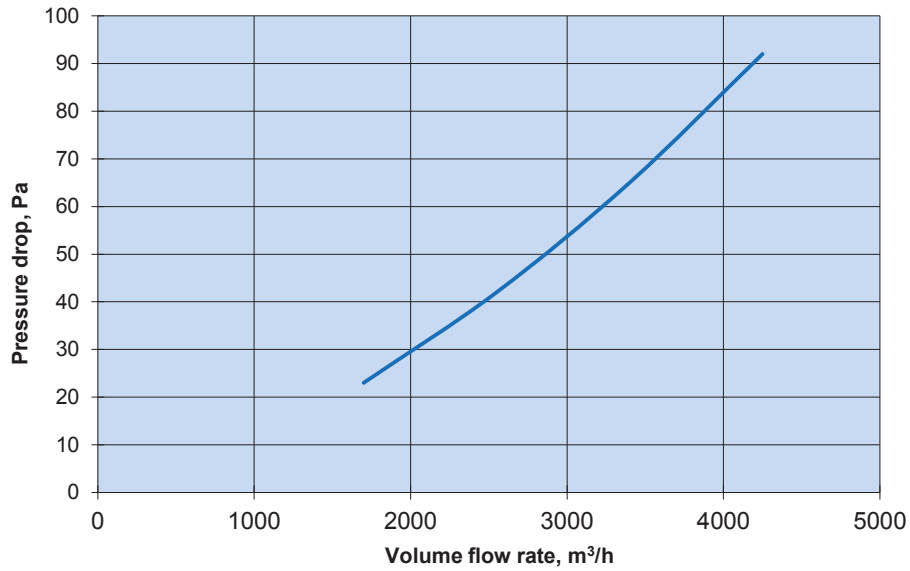
---

<b>Product</b>	:	AQUA24x24x6/FL/P4
<b>Dimensions (BxHxD)</b>	:	592x592x150 [mm]
<b>Number of pockets or "Vs"</b>	:	-
<b>Surface Area</b>	:	3,5 [m <sup>2</sup> ]
<b>Volume Air Flow</b>	:	3400 [m <sup>3</sup> /h]
<b>Air Velocity</b>	:	2,7 [m/s]
<b>Media Velocity</b>	:	0,27 [m/s]
<b>Initial Pressure Drop</b>	:	65 [Pa]
<b>Filter Classification acc. ISO16890</b>	:	ISO Coarse 70%
<b>Average Arrestance</b>	:	94 [%]
<b>Dust Holding Capacity (ISO A2 Fine Dust)</b>	:	341 [g]
<b>Final Test Pressure Drop</b>	:	200 [Pa]
<b>Maximum Temperature</b>	:	70 [°C]
<b>Maximum rel. Humidity</b>	:	≤ 100 [%]
<b>Max. Pressure Drop</b>	:	250 [Pa]

# Aqua 150 Product Information Sheet

Product: AQUA24x24x6/FL/P4

## 4. Pressure Drop Curve







## BAG FILTERS

### Advantages of bag filters

- Large filter area
- Unique construction and opening of the filter bags
- Very high dust retention capacity through use of high-grade filter materials
- Long filter lifetime
- Low energy consumption
- Dimensioning according to EN15805
- Corrosion free
- Simple waste processing

### Structure

The bag filters are constructed from bags with a unique structure through which as low a resistance as possible can be realised. The bags are assembled in an aluminium or steel frame. The filters resist up to 70°C and 95% RH.

**HQ55-series**



**HQ65-series**



**HQ80-series**

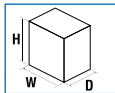


**HQ85-series**



**HQ98-series**





### SPECIFICATIONS

**Application:** Fine filter, HVAC, industry  
**Frame:** Aluminium  
**Spacers:** Sewing thread  
**Bonding:** -  
**Medium:** Glass fibre  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ePM10  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight frame
- High dust holding capacity
- Constant efficiency
- High energy efficiency

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HQ55A6-6	592x592x635	ePM10 70%	M5	6	4,6	3400	75	2	609x183x607	E
HQ55B5-6	490x592x635	ePM10 70%	M5	5	3,8	2800	75	2	609x183x607	E
HQ55B6-6/90	592x490x635	ePM10 70%	M5	6	3,8	2800	75	2	609x183x607	E
HQ55C3-6	287x592x635	ePM10 70%	M5	3	2,3	1700	75	4	609x183x607	E
HQ55C6-6/90	592x287x635	ePM10 70%	M5	6	2,2	1700	75	4	609x183x607	E

# Bag filters

## HQ65-series

ePM2,5 M6

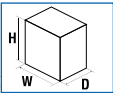


### SPECIFICATIONS

**Application:** Fine filter, HVAC, industry  
**Frame:** Aluminium  
**Spacers:** Sewing thread  
**Bonding:** -  
**Medium:** Glass fibre  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ePM2,5  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight frame
- High dust holding capacity
- Constant efficiency
- High energy efficiency



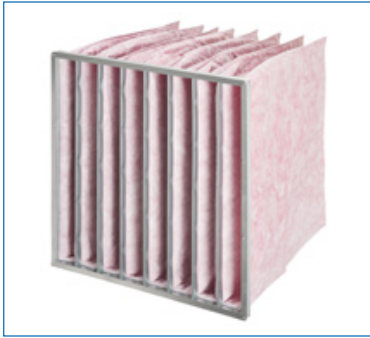
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HQ65A6-6	592x592x635	ePM2,5 50%	M6	6	4,6	3400	75	2	609x183x607	C
HQ65B5-6	490x592x635	ePM2,5 50%	M6	5	3,8	2800	75	2	609x183x607	C
HQ65B6-6/90	592x490x635	ePM2,5 50%	M6	6	3,8	2800	75	2	609x183x607	C
HQ65C3-6	287x592x635	ePM2,5 50%	M6	3	2,3	1700	75	4	609x183x607	C
HQ65C6-6/90	592x287x635	ePM2,5 50%	M6	6	2,2	1700	75	4	609x183x607	C

## Bag filters

### HQ85-series

ePM1

F7



### SPECIFICATIONS

**Application:** Fine filter, HVAC, industry

**Frame:** Aluminium

**Spacers:** Sewing thread

**Bonding:** -

**Medium:** Glass fibre

**Gasket:** Optional

**Filter class according to ISO 16890:** ePM1

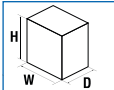
**Maximum final pressure drop:** 450Pa

**Maximum temperature:** 70°C

**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight frame
- High dust holding capacity
- Constant efficiency
- High energy efficiency



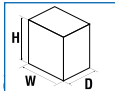
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HQ85A6-6	592x592x635	ePM1 60%	F7	6	4,6	3400	120	2	609x183x607	D
HQ85B5-6	490x592x635	ePM1 60%	F7	5	3,8	2800	120	2	609x183x607	D
HQ85B6-6/90	592x490x635	ePM1 60%	F7	6	3,8	2800	120	2	609x183x607	D
HQ85C3-6	287x592x635	ePM1 60%	F7	3	2,3	1700	120	4	609x183x607	D
HQ85C6-6/90	592x287x635	ePM1 60%	F7	6	2,2	1700	120	4	609x183x607	D

## Bag filters

### HQ98-series

ePM1

F9



### SPECIFICATIONS

**Application:** Fine filter, HVAC, industry

**Frame:** Aluminium

**Spacers:** Sewing thread

**Bonding:** -

**Medium:** Glass fibre

**Gasket:** Optional

**Filter class according to ISO 16890:** ePM1

**Maximum final pressure drop:** 450Pa

**Maximum temperature:** 70°C

**Maximum relative humidity:** 90%

### ADVANTAGES

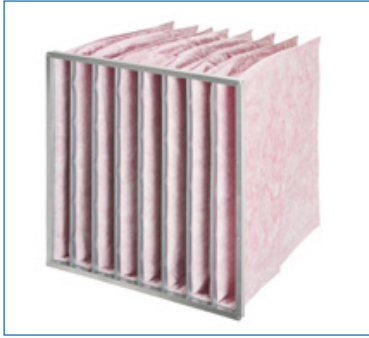
- Lightweight frame
- High dust holding capacity
- Constant efficiency
- High energy efficiency

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HQ98A6-6	592x592x635	ePM1 85%	F9	6	4,6	3400	190	2	609x183x607	D
HQ98B5-6	490x592x635	ePM1 85%	F9	5	3,8	2800	190	2	609x183x607	D
HQ98B6-6/90	592x490x635	ePM1 85%	F9	6	3,8	2800	190	2	609x183x607	D
HQ98C3-6	287x592x635	ePM1 85%	F9	3	2,3	1700	190	4	609x183x607	D
HQ98C6-6/90	592x287x635	ePM1 85%	F9	6	2,2	1700	190	4	609x183x607	D

# Bag filters

## EC070-serie

ePM1 F7

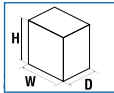


### SPECIFICATIONS

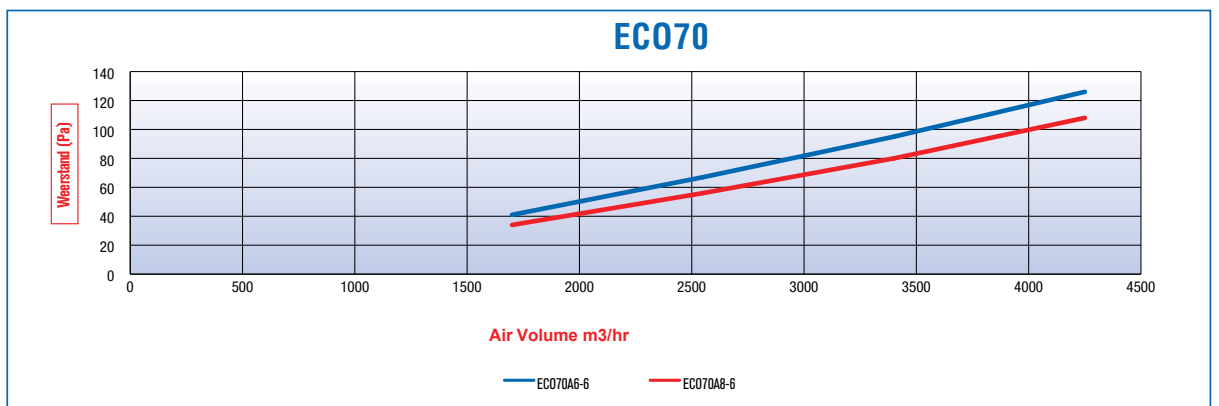
**Application:** Fine filter, HVAC, industry  
**Frame:** Aluminium  
**Spacers:** Sewing thread  
**Bonding:** -  
**Medium:** Glass fibre  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ePM1  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Constant efficiency



Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
EC070A6-6	592x592x635	ePM1 50%	F7	6	4,6	3400	95	2	609x183x607	C
EC070C3-6	287x592x635	ePM1 50%	F7	3	2,3	1700	95	4	609x183x607	C



# Bag filters

## HW-series

ePM1 F7 F9

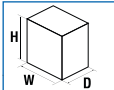


### SPECIFICATIONS

**Application:** Prefilter HVAC, industry  
**Frame:** Aluminium  
**Spacers:** Synthetic  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ePM1  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

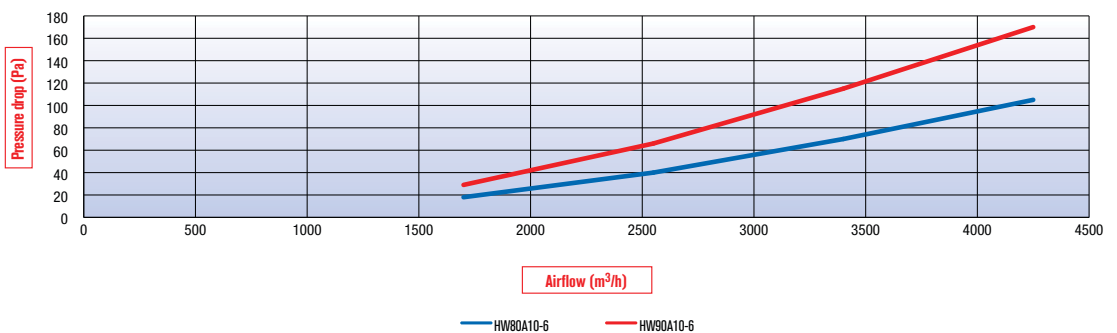
### ADVANTAGES

- High dust holding capacity
- Large filter area



Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HW80A10-6	592x592x635	ePM1 50%	F7	10	7,7	3400	70	2	609x240x607	A
HW90A10-6	592x592x635	ePM1 85%	F9	10	7,7	3400	115	2	609x240x607	A

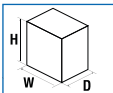
### HW Series





# Bag filters

## HD-series



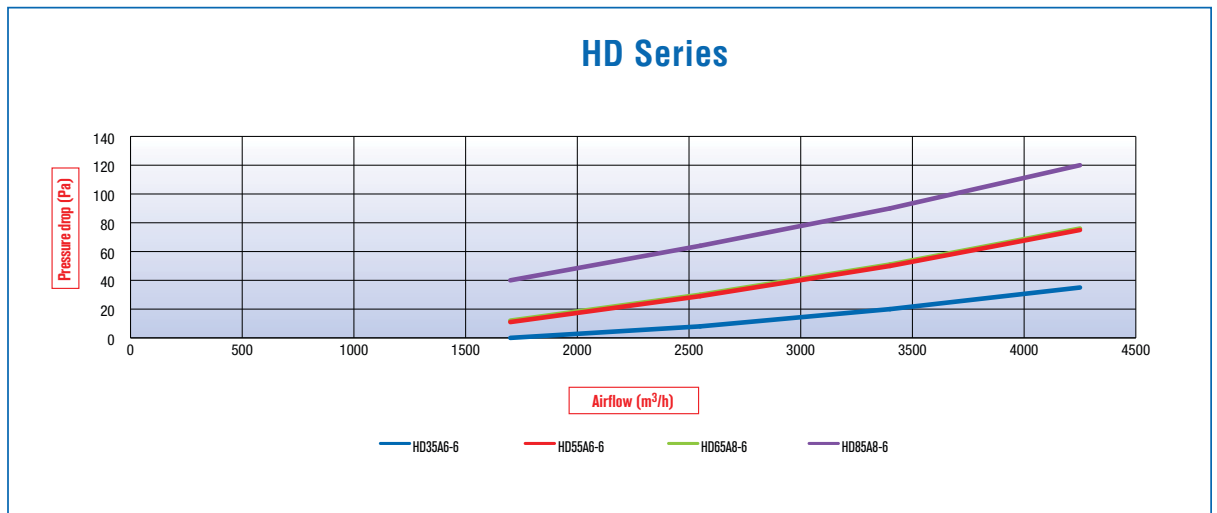
### SPECIFICATIONS

**Application:** Fine filter HVAC, industry, gas turbines  
**Frame:** 2 component polyurethane  
**Spacers:** Synthetic  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ePM1, ISO Coarse  
**Maximum final pressure drop:** 450 Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Burst pressure drop:** 3000 pa

### ADVANTAGES

- Withstands extreme pressure
- Totally combustible
- Lightweight frame
- Unique selfsupporting filter medium

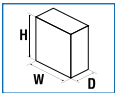
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HD35A6-6**	595x595x600	ISO Coarse 70%	G4	6	4,7	3400	20	3	730x630x690	-
HD35C3-6**	288x595x600	ISO Coarse 70%	G4	3	2,3	1700	20	6	730x630x690	-
HD55A6-6	595x595x600	ISO Coarse 90%	M5	6	4,7	3400	70	3	730x630x690	A
HD55C3-6	288x595x600	ISO Coarse 90%	M5	3	2,3	1700	70	6	730x630x690	A
HD65A8-6	595x595x600	ISO Coarse 90%	M6	8	6,0	3400	50	3	730x630x690	A
HD65B6-6	493x595x600	ISO Coarse 90%	M6	6	4,5	2800	50	3	730x530x690	A
HD65C4-6	288x595x600	ISO Coarse 90%	M6	4	3,0	1700	50	6	730x630x690	A
HD65CC4-6	288x288x600	ISO Coarse 90%	M6	4	1,5	800	50	4	730x630x305	A
HD85A8-6	592x592x600	ePM10 70%	F7	8	6,0	3400	90	3	730x630x690	C
HD85B6-6	493x595x600	ePM10 70%	F7	6	4,5	2800	90	3	730x530x690	C
HD85C4-6	288x595x600	ePM10 70%	F7	4	3,0	1700	90	6	730x630x690	C
HD85CC4-6	288x288x600	ePM10 70%	F7	4	1,5	800	90	4	730x630x305	C



# Bag filters

## HSB35-series

ISO Coarse G4



### SPECIFICATIONS

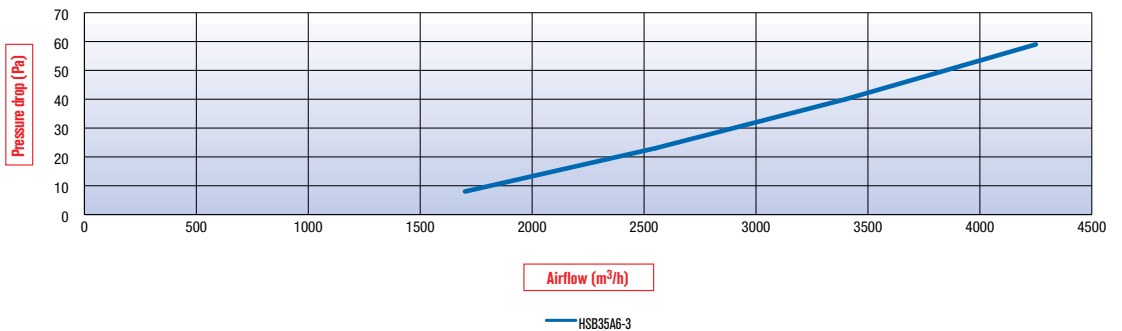
**Application:** Prefilter HVAC, industry  
**Frame:** Aluminium  
**Spacers:** Synthetic  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ISO Coarse  
**Maximum final pressure drop:** 250Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight frame

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HSB35A6-3	592x592x360	ISO Coarse 70%	G4	6	2,8	3400	40	4	605x605x240	-
HSB35B5-3	490x592x360	ISO Coarse 70%	G4	5	2,3	2800	40	4	605x605x183	-
HSB35C3-3	287x592x360	ISO Coarse 70%	G4	3	1,4	1700	40	8	605x605x240	-

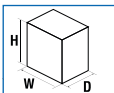
### HSB35A6-3



# Bag filters

## HSB55-series

ISO Coarse M5



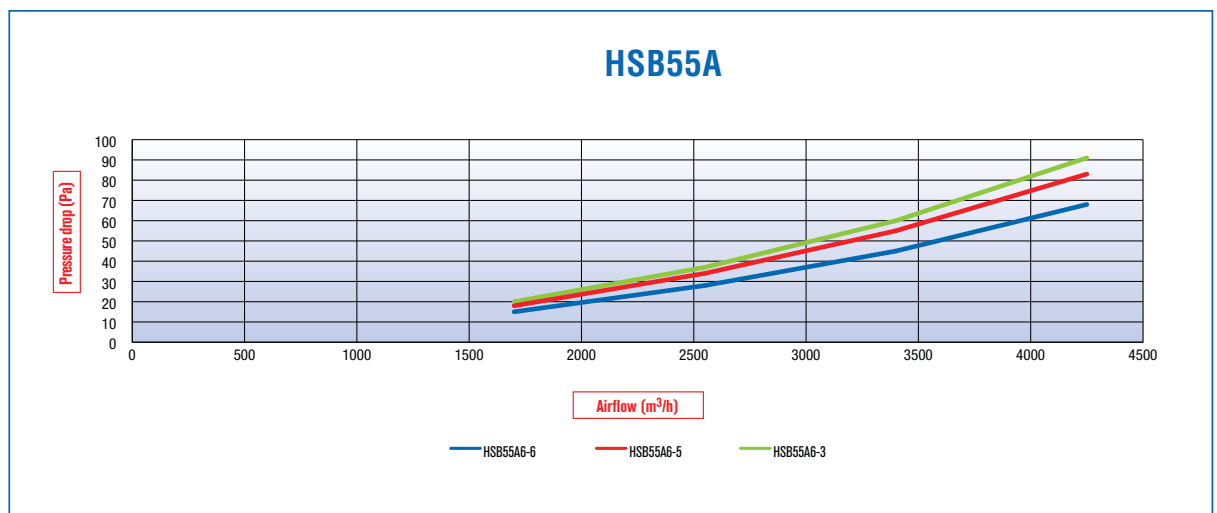
### SPECIFICATIONS

**Application:** Prefilter HVAC, industry  
**Frame:** Aluminium  
**Spacers:** Synthetic  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ISO Coarse  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight frame

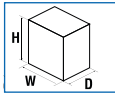
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HSB55A6-3	592x592x360	ISO Coarse 80%	M5	6	2,8	3400	60	4	605x605x240	E
HSB55B5-3	490x592x360	ISO Coarse 80%	M5	5	2,3	2800	60	4	605x605x183	E
HSB55C3-3	287x592x360	ISO Coarse 80%	M5	3	1,4	1700	60	8	605x605x240	E
HSB55A6-6	592x592x635	ISO Coarse 80%	M5	6	4,9	3400	45	4	605x605x240	C
HSB55B5-6	490x592x635	ISO Coarse 80%	M5	5	4,1	2800	45	4	605x605x240	C
HSB55C3-6	287x592x635	ISO Coarse 80%	M5	3	2,4	1700	45	8	605x605x240	C



## Bag filters

### LSB60-series

ePM10 M6



### SPECIFICATIONS

**Application:** Prefilter HVAC, industry  
**Frame:** Aluminium  
**Spacers:** Synthetic  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** Optional  
**Filter class according to ISO 16890:** ePM10  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight frame

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
LSB60A6-6	592x592x635	ePM10 70%	M6	6	4,9	3400	65	4	605x605x240	E
LSB60B5-6	490x592x635	ePM10 70%	M6	5	4,1	2800	65	4	605x605x240	E
LSB60C3-6	287x592x635	ePM10 70%	M6	3	2,4	1700	65	8	605x605x240	E

## Bag filters

### LSB80-series

ePM2,5 F7

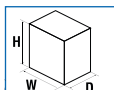


### SPECIFICATIONS

**Application:** Prefilter HVAC, industry  
**Frame:** Aluminium  
**Spacers:** Synthetic  
**Bonding:** -  
**Medium:** Synthetic  
**Gasket:** Optional, Continuous poured gasket  
**Filter class according to ISO 16890:** ePM2,5  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight frame
- Constant efficiency



Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	# Pockets	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
LSB80A8-6	592x592x635	ePM2,5 70%	F7	8	6,3	3400	130	4	605x605x240	E
LSB80B6-6	490x592x635	ePM2,570%	F7	6	4,8	2800	130	4	605x605x240	E
LSB80C4-6	287x592x635	ePM2,570%	F7	4	3,1	1700	130	8	605x605x240	E

## COMPACT FILTERS

### Qualities

Compact filters or HPQ – High Performance Quality – filters are mini-pleated filters, characterised by their high filtration characteristics.

### Advantages or compact filters (HPQ filters)

- Large filter area
- Spacers – hot melt
- 100% leak free
- Very great dust retention capacity
- Long lifetime
- Low energy consumption
- Dimensioning according to EN15805
- Moisture resistant
- Corrosion free

### Structure

Compact or HPQ filters are mini-pleated filters that are assembled in a polystyrene frame. This type of air filter can withstand temperatures up to 70°C. The largely robot-automated production of these filters ensures that they comply with the highest quality standards.

### Application

Compact or HPQ filters are used in air conditioning units and systems, industrial systems and as pre-filters for clean rooms.

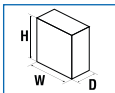
### Installation

- Ensure that the filter is correctly installed:  
suction side – clean air side
- Filter must be correctly mounted: no leaks
- Gaskets must not be damaged
- Filter must be clamped down in four places
- Avoid touching the filter medium during installation
- Avoid damaging the filter during installation
- System must run for a few hours to achieve the desired result
- Installation record for filters: note date, time, initial resistance

# Compact filters

## HPQ-series

ePM2,5 ePM1 M6 F7 F9 E10 E11 E12



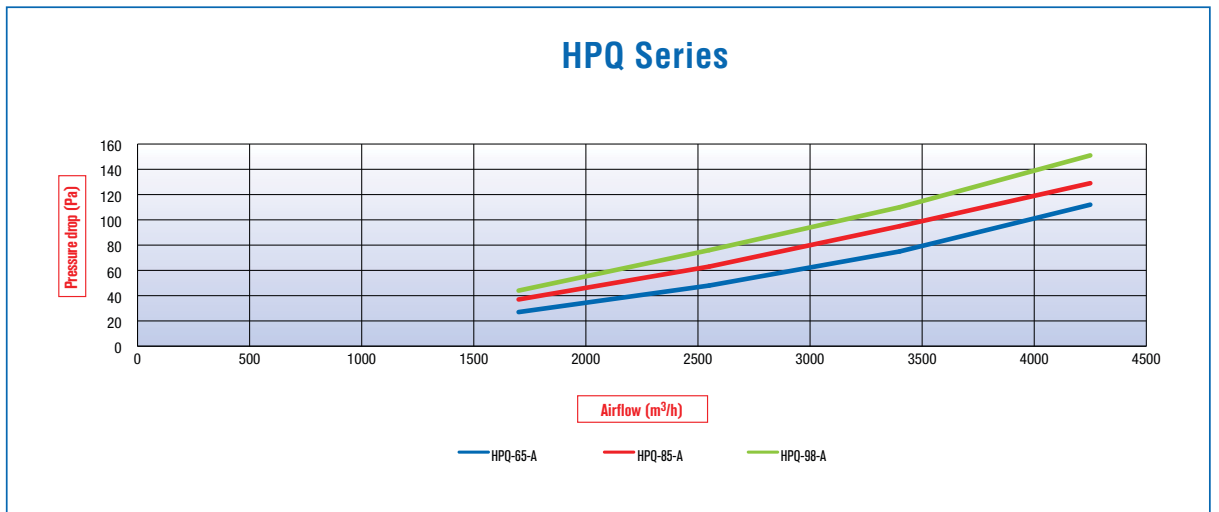
### SPECIFICATIONS

**Application:** HVAC, Industry  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filterklasse ISO 16890 / EN1822:** ePM2,5, ePM1, E10, E11, E12  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Comments:** It is preferred to use a prefilter with these products

### ADVANTAGES

- Small construction space
- Low pressure drop
- Maximum airflow 45% above nominal value

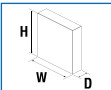
Type	Dimensions WxHxD (mm)	Filter class ISO 16890 EN1822	Filter class EN779:2012 EN1822	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HPQ-65-A	592x592x292	ePM2,5 55%	M6	18,8	3400	75	1	605x305x605	E
HPQ-65-B	490x592x292	ePM2,5 55%	M6	15,3	2800	75	1	605x305x505	E
HPQ-65-C	288x592x292	ePM2,5 55%	M6	8,4	1700	75	2	605x305x305	E
HPQ-85-A	592x592x292	ePM1 55%	F7	18,8	3400	95	1	605x305x605	B
HPQ-85-B	490x592x292	ePM1 55%	F7	15,3	2800	95	1	605x305x505	B
HPQ-85-C	288x592x292	ePM1 55%	F7	8,4	1700	95	2	605x305x305	B
HPQ-98-A	592x592x292	ePM1 80%	F9	18,8	3400	110	1	605x305x605	B
HPQ-98-B	490x592x292	ePM1 80%	F9	15,3	2800	110	1	605x305x505	B
HPQ-98-C	288x592x292	ePM1 80%	F9	8,4	1700	110	2	605x305x305	B
HPQ-E10-A**	592x592x292	E10	E10	18,8	3400	170	1	605x305x605	-
HPQ-E10-B**	490x592x292	E10	E10	15,3	2800	170	1	605x305x505	-
HPQ-E10-C**	288x592x292	E10	E10	8,4	1700	170	2	605x305x305	-
HPQ-E11-A**	592x592x292	E11	E11	18,8	2000	130	1	605x305x605	-
HPQ-E11-B**	490x592x292	E11	E11	15,3	1500	130	1	605x305x505	-
HPQ-E11-C**	288x592x292	E11	E11	8,4	1000	130	2	605x305x305	-
HPQ-E12-A**	592x592x292	E12	E12	18,8	2000	180	1	605x305x605	-
HPQ-E12-B**	490x592x292	E12	E12	15,3	1500	180	1	605x305x505	-
HPQ-E12-C**	288x592x292	E12	E12	8,4	1000	180	2	605x305x305	-



## Compact filters

### HPQ-XL-Series

M6 F7 F9 E10 E11 E12



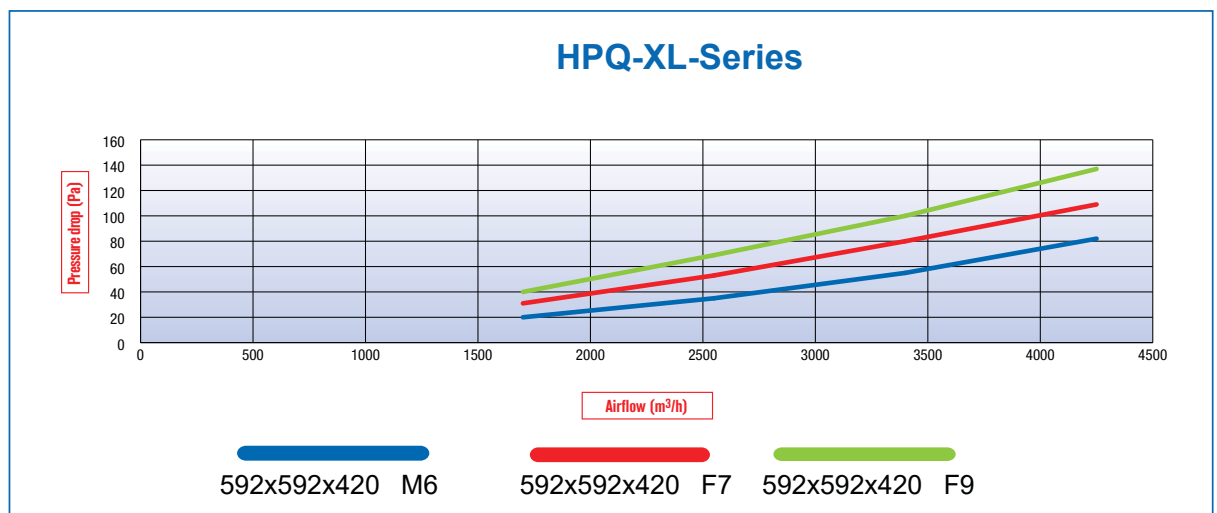
### SPECIFICATIONS

**Application:** HVAC, Industry  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper or Synthetic  
**Gasket:** Continuous poured gasket  
**Filter class according to ISO 16890/EN1822:** ePM2, 5, ePM1, E10, E11, E12  
**Maximum/recommended final pressure drop:** 450Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Comments:** It is preferred to use a prefilter with these products

### ADVANTAGES

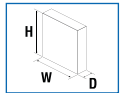
- Small construction space
- Lower pressure drop relative to HPQ-serie
- Possible usage in almost every Heat Recovery Unit.
- Please inquire about the possibilities
- Maximum airflow 45% above nominal value

Type	Dimensions WxHxD (mm)	Filter class ISO 16890/EN1822	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HPQ-65-A/XL	592x592x420	ePM2,5 55%	25,0	3400	55	1	605x435x605	A
HPQ-65-B/XL	490x592x420	ePM2,5 55%	20,4	2800	55	1	605x435x505	A
HPQ-65-C/XL	288x592x420	ePM2,5 55%	11,2	1700	55	2	605x435x305	A
HPQ-85-A/XL	592x592x420	ePM1 55%	25,0	3400	80	1	605x435x605	A
HPQ-85-B/XL	490x592x420	ePM1 55%	20,4	2800	80	1	605x435x505	A
HPQ-85-C/XL	288x592x420	ePM1 55%	11,2	1700	80	2	605x435x305	A
HPQ-98-A/XL	592x592x420	ePM1 80%	25,0	3400	100	1	605x435x605	A
HPQ-98-B/XL	490x592x420	ePM1 80%	20,4	2800	100	1	605x435x505	A
HPQ-98-C/XL	288x592x420	ePM1 80%	11,2	1700	100	2	605x435x305	A
HPQ-E10-A/XL**	592x592x420	E10	25,0	3400	155	1	605x435x605	-
HPQ-E10-B/XL**	490x592x420	E10	20,4	2800	155	1	605x435x505	-
HPQ-E10-C/XL**	288x592x420	E10	11,2	1700	155	2	605x435x305	-
HPQ-E11-A/XL**	592x592x420	E11	25,0	2000	120	1	605x435x605	-
HPQ-E11-B/XL**	490x592x420	E11	20,4	1500	120	1	605x435x505	-
HPQ-E11-C/XL**	288x592x420	E11	11,2	1000	120	2	605x435x305	-
HPQ-E12-A/XL**	592x592x420	E12	25,0	2000	165	1	605x435x605	-
HPQ-E12-B/XL**	490x592x420	E12	20,4	1500	165	1	605x435x505	-
HPQ-E12-C/XL**	288x592x420	E12	11,2	1000	165	2	605x435x305	-



\* According to Eurovent RS 4/C/001-2019  
 \*\* Not Eurovent certified





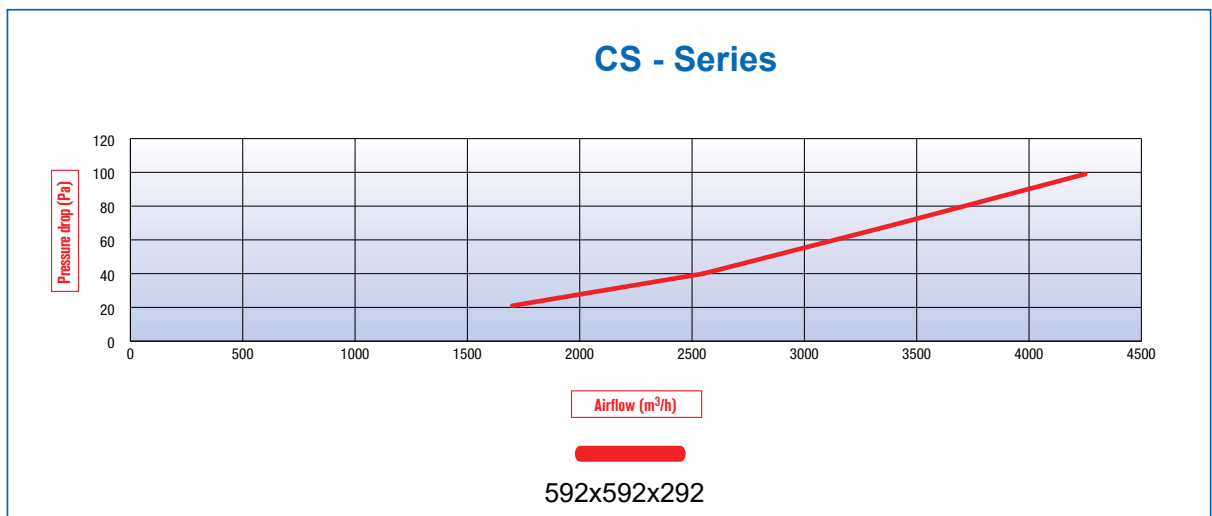
### SPECIFICATIONS

**Application:** HVAC, Industry  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filter class according to ISO 16890:** ePM1  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Comments:** It is preferred to use a prefilter with these products

### ADVANTAGES

- Small construction space
- Low pressure drop
- Maximum airflow 45% above nominal value

Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
CS85-A	592x592x292	ePM1 55%	18,8	3400	85	1	605x305x605	B
CS85-B	490x592x292	ePM1 55%	15,3	2800	85	1	605x305x505	B
CS85-C	288x592x292	ePM1 55%	8,4	1700	85	2	605x305x305	B
CS98-A	592x592x292	ePM1 80%	18,8	3400	100	1	605x305x605	B
CS98-B	490x592x292	ePM1 80%	15,3	2800	100	1	605x305x505	B
CS98-C	288x592x292	ePM1 80%	8,4	1700	100	2	605x305x305	B



CS-XL-Series

F7 F9

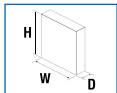


SPECIFICATIONS

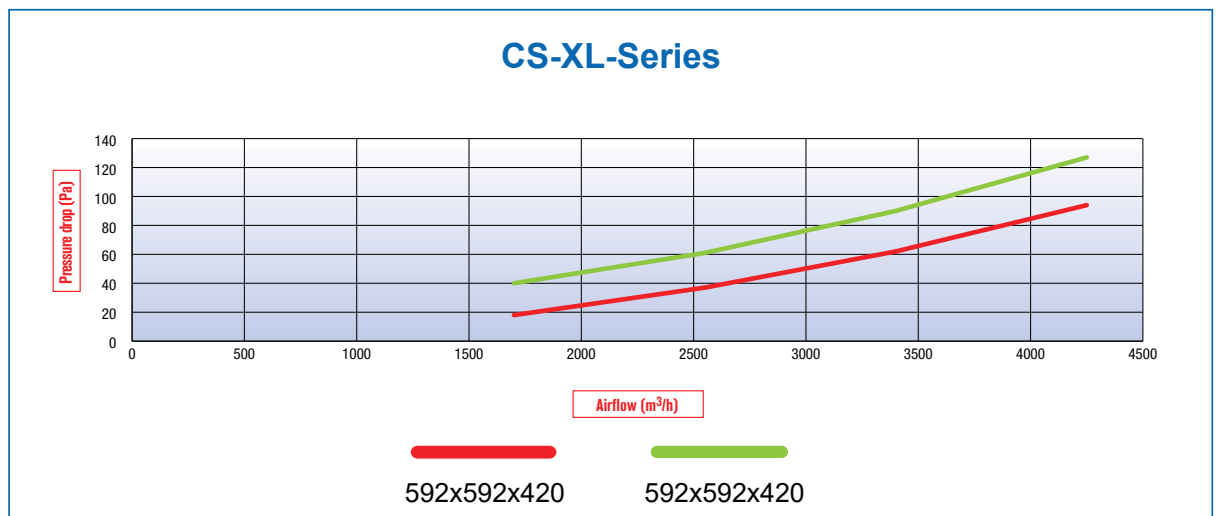
**Application:** HVAC, Industry  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filter class according to ISO 16890:** ePM1  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Comments:** It is preferred to use a prefilter with these products

ADVANTAGES

- Small construction space
- Lower pressure drop relative to CS-serie
- Well suited for variable airflow volumes
- Maximum airflow 45% above nominal value



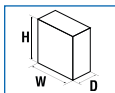
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
CS85-A-XL	592x592x420	ePM1 55%	25,0	3400	62	1	605x435x605	A+
CS85-B-XL	490x592x420	ePM1 55%	20,4	2800	62	1	605x435x505	A+
CS85-C-XL	288x592x420	ePM1 55%	11,2	1700	62	2	605x435x305	A+
CS98-A-XL	592x592x420	ePM1 80%	25,0	3400	90	1	605x435x605	A
CS98-B-XL	490x592x420	ePM1 80%	20,4	2800	90	1	605x435x505	A
CS98-C-XL	288x592x420	ePM1 80%	11,2	1700	90	2	605x435x305	A



# Compact filters

## HPQ-Eco-Series

M6 F7 F9



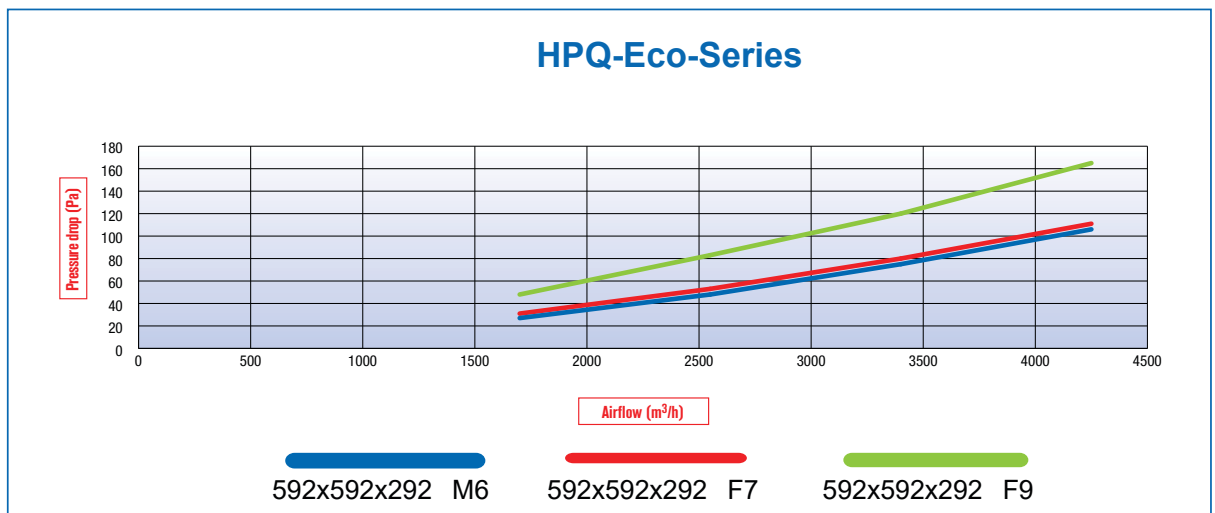
### SPECIFICATIONS

**Application:** HVAC, Industry  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper or Synthetic  
**Gasket:** Continuous poured gasket  
**Filter class according to ISO 16890:** ePM2,5,ePM1  
**Max/recommend final pressure drop:** 450 Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Comments:** It is preferred to use a prefilter with these products

### ADVANTAGES

- Small construction space
- Low pressure drop

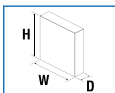
Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HPQ-65-A-ECO	592x592x292	ePM2,5 55%	14,0	3400	75	1	605x305x605	C
HPQ-85-A-ECO	592x592x292	ePM1 55%	14,0	3400	80	1	605x305x605	C
HPQ-98-A-ECO	592x592x292	ePM1 80%	14,0	3400	120	1	605x305x605	C



# Compact filters

## PT-series

ePM2,5 ePM1 M6 F7 F9 E10 E11 E12



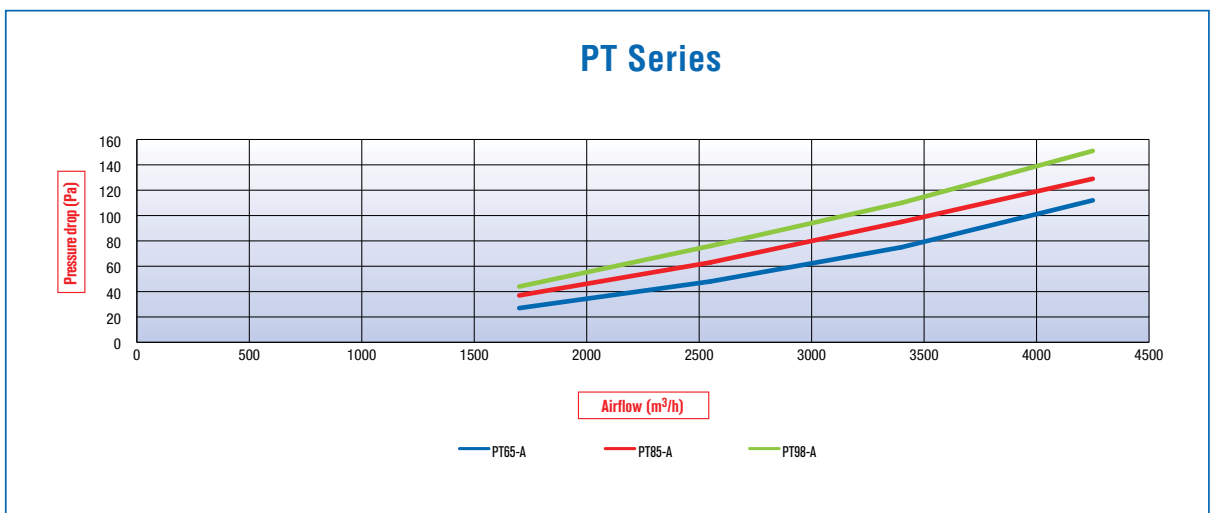
### SPECIFICATIONS

**Application:** Gasturbine filter, Industry  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filterklasse ISO 16890 / EN1822:** ePM2,5, ePM1, E10, E11, E12  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Burst pressure drop:** 6000 Pa  
**Comments:** It is preferred to use a prefilter with these products

### ADVANTAGES

- Small construction space
- Low pressure drop
- Maximum airflow 45% above nominal value
- Strong construction

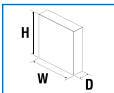
Type	Dimensions WxHxD (mm)	Filter class ISO 16890 EN1822	Filter class EN779:2012 EN1822	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
PT65-A	592x592x292	ePM2,5 55%	M6	18,8	3400	75	1	605x305x605	E
PT85-A	592x592x292	ePM1 55%	F7	18,8	3400	95	1	605x305x605	B
PT98-A	592x592x292	ePM1 80%	F9	18,8	3400	110	1	605x305x605	B
PT-E10-A**	592x592x292	E10	E10	18,8	3400	170	1	605x305x605	-
PT-E11-A**	592x592x292	E11	E11	18,8	2000	130	1	605x305x605	-
PT-E12-A**	592x592x292	E12	E12	18,8	2000	180	1	605x305x605	-



# Compact filters

## PT-XL

ePM2,5 ePM1 M6 F7 F9 E10 E11 E12



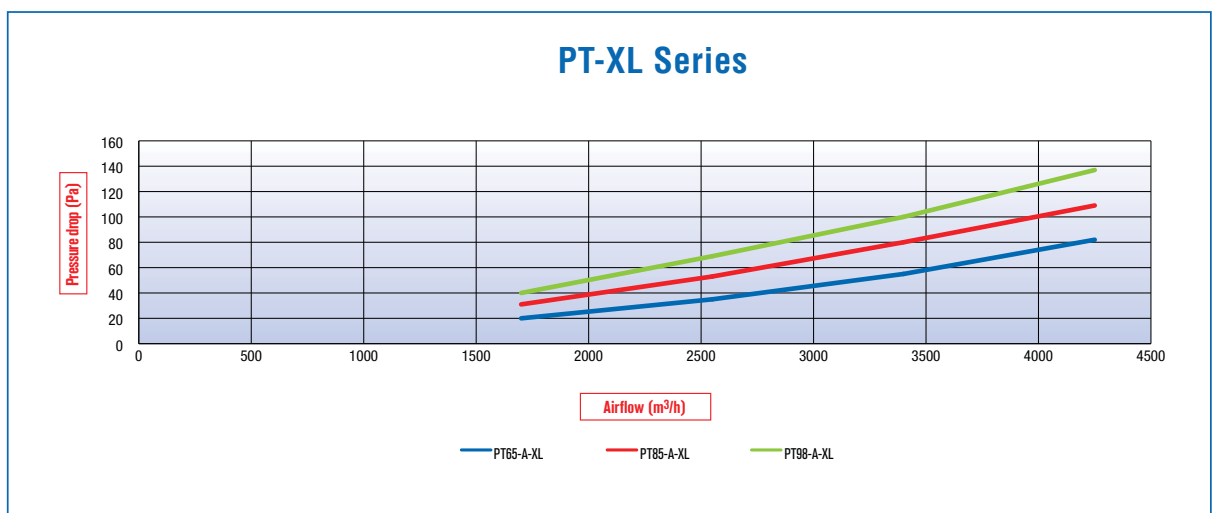
### SPECIFICATIONS

**Application:** Gasturbine filter, Industry  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filterklasse ISO 16890 / EN1822:** ePM2,5, ePM1, E10, E11, E12  
**Maximum final pressure drop:** 450Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Burst pressure drop:** 6000 Pa  
**Comments:** It is preferred to use a prefilter with these products

### ADVANTAGES

- Small construction space
- Lower pressure drop relative to HPQ-serie
- Possible usage in almost every Heat Recovery Unit.
- Please inquire about the possibilities
- Maximum airflow 45% above nominal value
- Strong construction

Type	Dimensions WxHxD (mm)	Filter class ISO 16890 EN1822	Filter class EN779:2012 EN1822	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
PT65-A-XL	592x592x400	ePM2,5 55%	M6	25,0	3400	55	1	605x435x605	D
PT85-A-XL	592x592x400	ePM1 55%	F7	25,0	3400	80	1	605x435x605	B
PT98-A-XL	592x592x400	ePM1 80%	F9	25,0	3400	100	1	605x435x605	A+
PT-E10-A-XL**	592x592x400	E10	E10	25,0	3400	155	1	605x435x605	-
PT-E11-A-XL**	592x592x400	E11	E11	25,0	2000	120	1	605x435x605	-
PT-E12-A-XL**	592x592x400	E12	E12	25,0	2000	165	1	605x435x605	-



# Grease Filters

---



Stainless Steel



Aluminium

# Type HD - Steel

*Permanent Metal Washable Filters*

- **22mm & 45mm Thicknesses**
- **Rugged All Metal Construction**
- **Low Resistance**
- **Washable**

## **Designed for Tough Applications**

Permanent metal filters are suitable for use in very difficult operating conditions including high velocity (up to 900 FPM), high temperature, high moisture, corrosive environments, oil or grease laden air.

## **Type HD - Steel**

**Media** - The media consists of multiple layers of pleated and flat steel screen wire to provide an intricate maze of dirt catching surfaces. Multiple layers of media offer maximum filter surface area. Heavy gauge expanded metal grids on both sides protect the media and add rigidity to the filter construction.

**Frame** - The frame is made from a single piece of heavy gauge **stainless** channel with mitered corners for extra strength. The frame is predrilled with holes to allow water to drain.



## **Washable For Repeated Use**

Permanent metal filters can be cleaned by flushing with a hose, washing in warm soapy water or steam cleaned. Allow filters to dry, then re-install. With proper care and handling, metal filters can provide years of dependable service.

Filters are available with bail type lift handles.



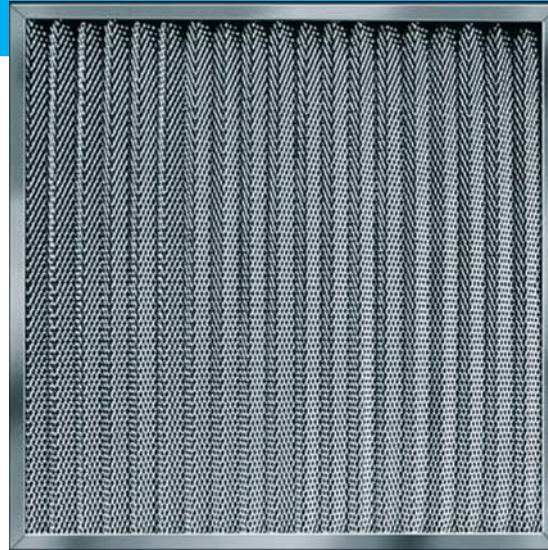
*"You breathe the difference"*

# Type HD - Steel

Permanent Metal Washable Filters

## Use Permanent Metal Filters Where Other Filters Won't Hold Up

- Very difficult operating conditions
- High velocity (up to 900 FPM)
- High temperature (up to 260c)
- High moisture
- Rain / snow / sleet
- Corrosive environments
- Sparks
- Oil or grease
- Large, bulky contaminants



### Standard Sizes

Nominal Size (Inches)	Actual Size (Inches)	Rated Air Flow Capacity (CFM) 22mm & 45mm @ 500 FPM	Rated Initial Resistance (In. W.G.) 22mm & 45mm@500FPM
12 x 24 x 1	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x <sup>3</sup> / <sub>4</sub>	600	.05"
16 x 20 x 1	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	670	.05"
16 x 25 x 1	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	840	.05"
20 x 20 x 1	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	840	.05"
20 x 25 x 1	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x <sup>3</sup> / <sub>4</sub>	1050	.05"
24 x 24 x 1	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x <sup>3</sup> / <sub>4</sub>	1200	.05"
12 x 24 x 2	11 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	1000	.18"
16 x 20 x 2	15 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1120	.18"
16 x 25 x 2	15 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1400	.18"
20 x 20 x 2	19 <sup>1</sup> / <sub>2</sub> x 19 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1400	.18"
20 x 25 x 2	19 <sup>1</sup> / <sub>2</sub> x 24 <sup>1</sup> / <sub>2</sub> x 1 <sup>3</sup> / <sub>4</sub>	1750	.18"
24 x 24 x 2	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 1 <sup>3</sup> / <sub>4</sub>	2000	.18"

### Arrestance:

22mm	45mm
60 - 65%	65 - 70%

**Performance:** Based on ASHRAE Standard 52.1 -1992. Tolerances conform to ARI Standard 850-93

**Underwriters Laboratories Classification:** Type HD filters are U.L. Standard 900

**Continuous Operating Temperature Limit:** 500° F (260° C)



*"You breathe the difference"*



## Grease Trap Filters

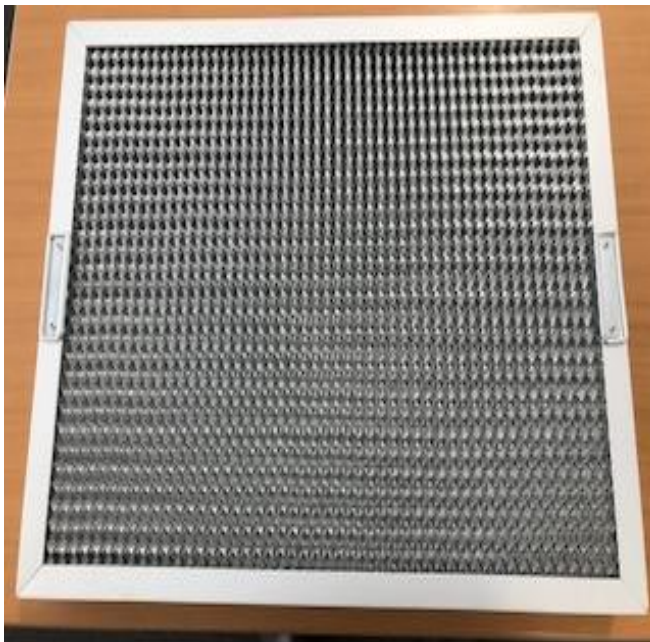
### Specifications:

A typical 492 x 492 x 50 filter has a rated capacity of 2038m<sup>3</sup>/h  
Clean resistance of 20pa.

A typical 592 x 592 x 50 filter has a rated capacity of 3005m<sup>3</sup>/h  
Clean resistance of 22pa.

### Applications:

By far the most preferred filter to capture cooking oils used in Kitchens today. This filter is strong durable element and because it is fully washable it becomes a very economical choice.



*"You breathe the difference"*

# HEPA FILTERS

## Qualities

HEPA filters are characterised by their combination of innovative design and proven technology. HEPA stands for high efficiency particle air filter. The use of high quality materials enables these filters to provide an extremely high air quality. On completion of the assembly process, each individual filter is tested in accordance with the EN1822 standard.

The HEPA filters' construction and the materials used are subject to continuous further development, which yields increasingly lower resistance and therefore reduced energy consumption. The filter media are made of glass microfiber sheet. This vouches for consistent performance, while enabling use of the filters in highly critical environments, such as in hospitals and the nuclear industry.

## Advantages of HEPA filters

- Consistent performance
- Large filter surface
- Every single product is tested in compliance with EN1822
- Robust construction helps prevent damage during transportation and fitting
- Low energy consumption, thanks to smart pleating methods
- Proven quality, even in critical environments

## Turbulent flow filters

This type of HEPA filter is widely used in circumstances where there are few requirements relating to the airflow's laminarity, but high air quality standards are applicable. The filters have a high flow rate, thanks to the application of efficient deep-pleating methods. The construction methods applied vary for the following model types:

### A Standard model

These filters have nominal capacities, which serve as the basis for system design. Application of the deep-pleating method makes for low resistance at relatively low cost. The filter surface may be up to fifty times larger than its front area.

### B High capacity model

These HEPA filters have even lower resistance and higher flow rate. They operate on the basis of V-shaped filter packages, which are inserted in the filter. This method creates twice as large a filter area and flow rate in comparison to those of the standard model.

## Laminar flow filters

HEPA filters with a laminar flow are widely applied in cleanrooms, where high air quality standards are essential. These have a lower flow rate than the turbulent flow filters. Laminar flow filters guarantee greater cleanliness in the cleanroom, thanks to aspects including the use of high quality filter paper and innovative pleating techniques.

HEPA filters are available as standard in 68, 80, 90 and 110 mm thicknesses, while the pleat package has a maximum height with a view to achieving low resistance.

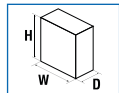
## Applications

HEPA filters are used in hospitals and various other sectors, including the nuclear, food processing and semiconductor industries. HEPA filters are highly reliable, as they are subjected to strict quality checks and extensive testing.

### Installation

It is essential that the following rules be observed when installing HEPA filters:

- Avoid touching the pleat package, as this may cause damage
- Ensure that every HEPA filter is validated following installation, to ensure that it is correctly fitted and devoid of damage
- Keep copies of test reports on the filters, and maintain suitable records or the test reports, stickers, resistances and validation reports
- Ensure that the flow rate of HEPA filters is never exceeded by more than 25%. Such excesses may cause performance deterioration or even damage the filter
- When fitting, ensure that the frames and filters are clean and that gaskets and any other seals are completely intact
- Use suitable protective equipment at all times, even when replacing used filters
- Maintain filter installation records; note the date, type and initial resistance.



### SPECIFICATIONS

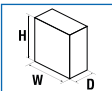
**Application:** Cleanrooms, asbestos remediation, operating rooms  
**Frame:** Galvanized steel  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filter class according to EN1822:** E10, E11, H13 and H14  
**Maximum final pressure drop:** 500Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Low pressure drop
- High airflows
- Every filter is delivered with a test certificate

The HEPA filters are checked for leak proofness at the end of the production proces. It is advised to validate the functioning of the airhandling unit after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HVG1110NBBM	305x305x292	E10	9,3	900	125	1	311x313x311
HVG1110NBEM	305x610x292	E10	18,5	1750	125	1	620x310x315
HVG1110NCEM	457x610x292	E10	27,8	2250	125	1	473x310x626
HVG1110NEEM	610x610x292	E10	37,0	3750	125	1	620x310x620
HVG1110NEFM	610x762x292	E10	46,3	4250	125	1	778x325x626
HCG1110NBBM	305x305x292	E10	10,1	1000	125	1	311x313x311
HCG1110NBEM	305x610x292	E10	20,2	2000	125	1	620x310x315
HCG1110NCEM	457x610x292	E10	30,2	3000	125	1	473x310x626
HCG1110NEEM	610x610x292	E10	40,3	4000	125	1	620x310x620
HCG1110NEFM	610x762x292	E10	50,4	5000	125	1	778x325x626
HVG1110NADM	288x592x292	E10	18,0	1550	125	1	606x308x301
HVG1110NCDM	490x592x292	E10	27,0	2650	125	1	496x598x318
HVG1110NDDM	592x592x292	E10	36,0	3200	125	1	606x308x606
HVG1111NBBM	305x305x292	E11	9,3	900	140	1	311x313x311
HVG1111NBEM	305x610x292	E11	18,5	1750	140	1	620x310x315
HVG1111NCEM	457x610x292	E11	27,8	2250	140	1	473x310x626
HVG1111NEEM	610x610x292	E11	37,0	3750	140	1	620x310x620
HVG1111NEFM	610x762x292	E11	46,3	4250	140	1	778x325x626
HCG1111NBBM	305x305x292	E11	10,1	1000	140	1	311x313x311
HCG1111NBEM	305x610x292	E11	20,2	2000	140	1	620x310x315
HCG1111NCEM	457x610x292	E11	30,2	3000	140	1	473x310x626
HCG1111NEEM	610x610x292	E11	40,3	4000	140	1	620x310x620
HCG1111NEFM	610x762x292	E11	50,4	5000	140	1	778x325x626
HVG1111NADM	288x592x292	E11	18,0	1800	140	1	606x308x301
HVG1111NCDM	490x592x292	E11	27,0	3100	140	1	496x598x318
HVG1111NDDM	592x592x292	E11	36,0	3750	140	1	606x308x606
HVG1113NBBM	305x305x292	H13	9,3	900	250	1	311x313x311
HVG1113NBEM	305x610x292	H13	18,5	1750	250	1	620x310x315
HVG1113NCEM	457x610x292	H13	27,8	2250	250	1	473x310x626
HVG1113NEEM	610x610x292	H13	37,0	3750	250	1	620x310x620
HVG1113NEFM	610x762x292	H13	46,3	4250	250	1	778x325x626
HCG1113NBBM	305x305x292	H13	10,1	1000	250	1	311x313x311
HCG1113NBEM	305x610x292	H13	20,2	2000	250	1	620x310x315
HCG1113NCEM	457x610x292	H13	30,2	3000	250	1	473x310x626
HCG1113NEEM	610x610x292	H13	40,3	4000	250	1	620x310x620
HCG1113NEFM	610x762x292	H13	50,4	5000	250	1	778x325x626
HVG1113NADM	288x592x292	H13	18,0	1550	250	1	626x308x301
HVG1113NCDM	490x592x292	H13	27,0	2650	250	1	496x598x318
HVG1113NDDM	592x592x292	H13	36,0	3200	250	1	606x308x606
HVG1114NBBM	305x305x292	H14	9,3	900	280	1	311x313x311
HVG1114NBEM	305x610x292	H14	18,5	1750	280	1	620x310x315
HVG1114NCEM	457x610x292	H14	27,8	2250	280	1	473x310x626
HVG1114NEEM	610x610x292	H14	37,0	3750	280	1	620x310x620
HVG1114NEFM	610x762x292	H14	46,3	4250	280	1	778x325x626
HCG1114NBBM	305x305x292	H14	10,1	1000	280	1	311x313x311
HCG1114NBEM	305x610x292	H14	20,2	2000	280	1	620x310x315
HCG1114NCEM	457x610x292	H14	30,2	3000	280	1	473x310x626
HCG1114NEEM	610x610x292	H14	40,3	4000	280	1	620x310x620
HCG1114NEFM	610x762x292	H14	50,4	5000	280	1	778x325x626
HVG1114NADM	288x592x292	H14	18,0	1800	280	1	606x308x301
HVG1114NCDM	490x592x292	H14	27,0	3100	280	1	496x598x318
HVG1114NDDM	592x592x292	H14	36,0	3750	280	1	606x308x606



### SPECIFICATIONS

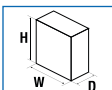
**Application:** Cleanrooms, asbestos remediation, operating rooms  
**Frame:** Stainless steel (RVS)  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filter class according to EN1822:** E10, E11, H13 and H14  
**Maximum final pressure drop:** 500Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Low pressure drop
- High airflows
- Every filter is delivered with a test certificate

The HEPA filters are checked for leak proofness at the end of the production proces. It is advised to validate the functioning of the airhandling unit after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HVS1110NBBM	305x305x292	E10	9,3	900	125	1	311x313x311
HVS1110NBEM	305x610x292	E10	18,5	1750	125	1	620x310x315
HVS1110NCEM	457x610x292	E10	27,8	2250	125	1	463x616x318
HVS1110NEEM	610x610x292	E10	37,0	3750	125	1	620x310x620
HVS1110NEFM	610x762x292	E10	46,3	4250	125	1	778x325x626
HCS1110NBBM	305x305x292	E10	10,1	1000	125	1	311x313x311
HCS1110NBEM	305x610x292	E10	20,2	2000	125	1	620x310x315
HCS1110NCEM	457x610x292	E10	30,2	3000	125	1	463x616x318
HCS1110NEEM	610x610x292	E10	40,3	4000	125	1	620x310x620
HCS1110NEFM	610x762x292	E10	50,4	5000	125	1	778x325x626
HVS1110NADM	288x592x292	E10	18,0	1550	125	1	606x308x301
HVS1110NCDM	490x592x292	E10	27,0	2650	125	1	496x598x318
HVS1110NDDM	592x592x292	E10	36,0	3200	125	1	606x308x606
HVS1111NBBM	305x305x292	E11	9,3	900	140	1	311x313x311
HVS1111NBEM	305x610x292	E11	18,5	1750	140	1	620x310x315
HVS1111NCEM	457x610x292	E11	27,8	2250	140	1	463x616x318
HVS1111NEEM	610x610x292	E11	37,0	3750	140	1	620x310x620
HVS1111NEFM	610x762x292	E11	46,3	4250	140	1	778x325x626
HCS1111NBBM	305x305x292	E11	10,1	1000	140	1	311x313x311
HCS1111NBEM	305x610x292	E11	20,2	2000	140	1	620x310x315
HCS1111NCEM	457x610x292	E11	30,2	3000	140	1	463x616x318
HCS1111NEEM	610x610x292	E11	40,3	4000	140	1	620x310x620
HCS1111NEFM	610x762x292	E11	50,4	5000	140	1	778x325x626
HVS1111NADM	288x592x292	E11	18,0	1800	140	1	606x308x301
HVS1111NCDM	490x592x292	E11	27,0	3100	140	1	496x598x318
HVS1111NDDM	592x592x292	E11	36,0	3750	140	1	606x308x606
HVS1113NBBM	305x305x292	H13	9,3	900	250	1	311x313x311
HVS1113NBEM	305x610x292	H13	18,5	1750	250	1	620x310x315
HVS1113NCEM	457x610x292	H13	27,8	2250	250	1	463x616x318
HVS1113NEEM	610x610x292	H13	37,0	3750	250	1	620x310x620
HVS1113NEFM	610x762x292	H13	46,3	4250	250	1	778x325x626
HCS1113NBBM	305x305x292	H13	10,1	1000	250	1	311x313x311
HCS1113NBEM	305x610x292	H13	20,2	2000	250	1	620x310x315
HCS1113NCEM	457x610x292	H13	30,2	3000	250	1	463x616x318
HCS1113NEEM	610x610x292	H13	40,3	4000	250	1	620x310x620
HCS1113NEFM	610x762x292	H13	50,4	5000	250	1	778x325x626
HVS1113NADM	288x592x292	H13	18,0	1550	250	1	606x308x301
HVS1113NCDM	490x592x292	H13	27,0	2650	250	1	496x598x318
HVS1113NDDM	592x592x292	H13	36,0	3200	250	1	606x308x606
HVS1114NBBM	305x305x292	H14	9,3	900	280	1	311x313x311
HVS1114NBEM	305x610x292	H14	18,5	1750	280	1	620x310x315
HVS1114NCEM	457x610x292	H14	27,8	2250	280	1	463x616x318
HVS1114NEEM	610x610x292	H14	37,0	3750	280	1	620x310x620
HVS1114NEFM	610x762x292	H14	46,3	4250	280	1	778x325x626
HCS1114NBBM	305x305x292	H14	10,1	1000	280	1	311x313x311
HCS1114NBEM	305x610x292	H14	20,2	2000	280	1	620x310x315
HCS1114NCEM	457x610x292	H14	30,2	3000	280	1	463x616x318
HCS1114NEEM	610x610x292	H14	40,3	4000	280	1	620x310x620
HCS1114NEFM	610x762x292	H14	50,4	5000	280	1	778x325x626
HVS1114NADM	288x592x292	H14	18,0	1800	280	1	606x308x301
HVS1114NCDM	490x592x292	H14	27,0	3100	280	1	496x598x318
HVS1114NDDM	592x592x292	H14	36,0	3750	280	1	606x308x606



### SPECIFICATIONS

- Application:** Cleanrooms, asbestos remediation, operating rooms
- Frame:** Galvanized steel
- Spacers:** Aluminium
- Bonding:** 2 component polyurethane
- Medium:** Glass fibre paper
- Gasket:** Continuous poured gasket
- Filter class according to EN1822:** E10, E11, H13 and H14
- Maximum final pressure drop:** 500Pa
- Maximum temperature:** 70°C
- Maximum relative humidity:** 90%

### ADVANTAGES

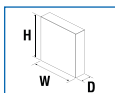
- Robust frame
- Every filter is delivered with a test certificate

The HEPA filters are checked for leak proofness at the end of the production proces. It is advised to validate the functioning of the airhandling units after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HPG2110NBMM	305x305x292	E10	6,1	500	125	1	311x313x311
HPG2110NBEM	305x610x292	E10	12,0	1000	125	1	620x310x315
HPG2110NCEM	457x610x292	E10	18,1	1500	125	1	473x310x626
HPG2110NEEM	610x610x292	E10	24,2	2000	125	1	620x310x620
HPG2110NEFM	610x762x292	E10	30,2	2500	125	1	778x325x626
HPG2110NADM	288x592x292	E10	11,0	900	125	1	620x310x315
HPG2110NDDM	592x592x292	E10	22,8	1850	125	1	606x308x606
HPG2111NBMM	305x305x292	E11	6,1	500	140	1	311x313x311
HPG2111NBEM	305x610x292	E11	12,0	1000	140	1	620x310x315
HPG2111NCEM	457x610x292	E11	18,1	1500	140	1	473x310x626
HPG2111NEEM	610x610x292	E11	24,2	2000	140	1	620x310x620
HPG2111NEFM	610x762x292	E11	30,2	2500	140	1	778x325x626
HPG2111NADM	288x592x292	E11	11,0	900	140	1	620x310x315
HPG2111NDDM	592x592x292	E11	22,8	1850	140	1	606x308x606
HPG2113NBMM	305x305x292	H13	6,1	500	250	1	311x313x311
HPG2113NBEM	305x610x292	H13	12,0	1000	250	1	620x310x315
HPG2113NCEM	457x610x292	H13	18,1	1500	250	1	473x310x626
HPG2113NEEM	610x610x292	H13	24,2	2000	250	1	620x310x620
HPG2113NEFM	610x762x292	H13	30,2	2500	250	1	778x325x626
HPG2113NADM	288x592x292	H13	11,0	900	250	1	620x310x315
HPG2113NDDM	592x592x292	H13	22,8	1850	250	1	606x308x606
HPG2114NBMM	305x305x292	H14	6,1	500	280	1	311x313x311
HPG2114NBEM	305x610x292	H14	12,0	1000	280	1	620x310x315
HPG2114NCEM	457x610x292	H14	18,1	1500	280	1	473x310x626
HPG2114NEEM	610x610x292	H14	24,2	2000	280	1	620x310x620
HPG2114NEFM	610x762x292	H14	30,2	2500	280	1	778x325x626
HPG2114NADM	288x592x292	H14	11,0	900	280	1	620x310x315
HPG2114NDDM	592x592x292	H14	22,8	1850	280	1	606x308x606
HPG2110NBBL	305x305x150	E10	3,0	225	125	1	320x165x320
HPG2110NCCL	457x457x150	E10	6,7	500	125	1	475x165x475
HPG2110NBEL	305x610x150	E10	6,0	450	125	1	313x618x166
HPG2110NCEL	457x610x150	E10	9,0	675	125	1	465x618x166
HPG2110NEEL	610x610x150	E10	12,0	900	125	1	625x165x625
HPG2110NEFL	610x762x150	E10	15,0	1125	125	1	628x780x181
HPG2111NBBL	305x305x150	E11	3,0	225	140	1	320x165x320
HPG2111NCCL	457x457x150	E11	6,7	500	140	1	475x165x475
HPG2111NBEL	305x610x150	E11	6,0	450	140	1	313x618x166
HPG2111NCEL	457x610x150	E11	9,0	675	140	1	465x618x166
HPG2111NEEL	610x610x150	E11	12,0	900	140	1	625x165x625
HPG2111NEFL	610x762x150	E11	15,0	1125	140	1	628x780x181
HPG2113NBBL	305x305x150	H13	3,0	225	250	1	320x165x320
HPG2113NCCL	457x457x150	H13	6,7	500	250	1	475x165x475
HPG2113NBEL	305x610x150	H13	6,0	450	250	1	313x618x166
HPG2113NCEL	457x610x150	H13	9,0	675	250	1	465x618x166
HPG2113NEEL	610x610x150	H13	12,0	900	250	1	625x165x625
HPG2113NEFL	610x762x150	H13	15,0	1125	250	1	628x780x181
HPG2114NBBL	305x305x150	H14	3,0	225	280	1	320x165x320
HPG2114NCCL	457x457x150	H14	6,7	500	280	1	475x165x475
HPG2114NBEL	305x610x150	H14	6,0	450	280	1	313x618x166
HPG2114NCEL	457x610x150	H14	9,0	675	280	1	465x618x166
HPG2114NEEL	610x610x150	H14	12,0	900	280	1	625x165x625
HPG2114NEFL	610x762x150	H14	15,0	1125	280	1	628x780x181

## HEPA HLA-E series

**E10** **E11** **H13** **H14**



### SPECIFICATIONS

**Application:** Cleanrooms, operating rooms  
**Frame:** Extruded aluminium  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filter class according to EN1822:** E10, E11, H13 and H14  
**Maximum final pressure drop:** 500Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight construction
- Every filter is delivered with a test certificate
- HLA HEPA are fitted with 2 protection grids

The HEPA filters are checked for leak proofness at the end of the production process. It is advised to validate the functioning of the airhandling unit after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1110DBBE	305x305x68	E10	2,8	150	65	1	311x89x311
HLA1110DCCE	457x457x68	E10	6,2	335	65	1	463x89x463
HLA1110DBEE	305x610x68	E10	5,5	300	65	1	616x89x311
HLA1110DCCE	457x610x68	E10	8,3	450	65	1	473x626x99
HLA1110DCBE	457x305x68	E10	4,2	225	65	1	473x321x99
HLA1110DEEE	610x610x68	E10	11,1	600	65	1	616x89x616
HLA1110DEGE	610x915x68	E10	16,6	900	65	1	616x89x921
HLA1110DEHE	610x1220x68	E10	22,1	1200	65	1	1226x89x616
HLA1110DEIE	610x1524x68	E10	27,6	1500	65	1	626x1540x99
HLA1110DEJE	610x1830x68	E10	33,1	1800	65	1	1836x89x616
HLA1110DFBE	762x305x68	E10	7,0	375	65	1	778x321x99
HLA1110DFEE	762x610x68	E10	13,9	750	65	1	778x626x99
HLA1110DFFE	762x762x68	E10	17,3	950	65	1	778x778x99
HLA1110DFGE	762x915x68	E10	20,7	1125	65	1	921x89x768
HLA1110DFHE	762x1220x68	E10	27,6	1500	65	1	778x1236x99
HLA1110DFIE	762x1524x68	E10	34,5	1875	65	1	778x1540x99
HLA1110DFJE	762x1830x68	E10	41,4	2250	65	1	1836x89x616
HLA1110DGBE	915x305x68	E10	8,4	450	65	1	931x321x99
HLA1110DGGE	915x915x68	E10	24,9	1350	65	1	931x108x931
HLA1110DGHE	915x1220x68	E10	33,2	1800	65	1	1236x89x931
HLA1110DGIE	915x1524x68	E10	41,4	2250	65	1	931x1540x99
HLA1110DGJE	915x1830x68	E10	49,7	2700	65	1	931x1846x99
HLA1111DBBE	305x305x68	E11	2,8	150	80	1	311x89x311
HLA1111DCCE	457x457x68	E11	6,2	335	80	1	463x89x463
HLA1111DBEE	305x610x68	E11	5,5	300	80	1	616x89x311
HLA1111DCCE	457x610x68	E11	8,3	450	80	1	473x626x99
HLA1111DCBE	457x305x68	E11	4,2	225	80	1	473x321x99
HLA1111DEEE	610x610x68	E11	11,1	600	80	1	616x89x616
HLA1111DEGE	610x915x68	E11	16,6	900	80	1	616x89x921
HLA1111DEHE	610x1220x68	E11	22,1	1200	80	1	1226x89x616
HLA1111DEIE	610x1524x68	E11	27,6	1500	80	1	626x1540x99
HLA1111DEJE	610x1830x68	E11	33,1	1800	80	1	1836x89x616
HLA1111DFBE	762x305x68	E11	7,0	375	80	1	778x321x99
HLA1111DFEE	762x610x68	E11	13,9	750	80	1	778x626x99
HLA1111DFFE	762x762x68	E11	17,3	950	80	1	778x778x99
HLA1111DFGE	762x915x68	E11	20,7	1125	80	1	921x89x768
HLA1111DFHE	762x1220x68	E11	27,6	1500	80	1	778x1236x99
HLA1111DFIE	762x1524x68	E11	34,5	1875	80	1	778x1540x99
HLA1111DFJE	762x1830x68	E11	41,4	2250	80	1	1836x89x768
HLA1111DGBE	915x305x68	E11	8,4	450	80	1	931x321x99
HLA1111DGGE	915x915x68	E11	24,9	1350	80	1	931x108x931
HLA1111DGHE	915x1220x68	E11	33,2	1800	80	1	1236x89x931
HLA1111DGIE	915x1524x68	E11	41,4	2250	80	1	931x1540x99
HLA1111DGJE	915x1830x68	E11	49,7	2700	80	1	931x1846x99
HLA1113DBBE	305x305x68	H13	2,8	150	120	1	311x89x311
HLA1113DCCE	457x457x68	H13	6,2	335	120	1	463x89x463
HLA1113DBEE	305x610x68	H13	5,5	300	120	1	616x89x311
HLA1113DCCE	457x610x68	H13	8,3	450	120	1	473x626x99
HLA1113DCBE	457x305x68	H13	4,2	225	120	1	473x321x99
HLA1113DEEE	610x610x68	H13	11,1	600	120	1	616x89x616
HLA1113DEGE	610x915x68	H13	16,6	900	120	1	616x89x921
HLA1113DEHE	610x1220x68	H13	22,1	1200	120	1	1226x89x616

continued >>

## HEPA filters

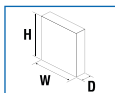
### HEPA HLA-E series (continued)



Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1113DEIE	610x1524x68	H13	27,6	1500	120	1	626x1540x99
HLA1113DEJE	610x1830x68	H13	33,1	1800	120	1	1836x89x616
HLA1113DFBE	762x305x68	H13	7,0	375	120	1	778x321x99
HLA1113DFEE	762x610x68	H13	13,9	750	120	1	778x626x99
HLA1113DFFE	762x762x68	H13	17,3	950	120	1	778x778x99
HLA1113DFGE	762x915x68	H13	20,7	1125	120	1	921x89x768
HLA1113DFHE	762x1220x68	H13	27,6	1500	120	1	778x1236x99
HLA1113DFIE	762x1524x68	H13	34,5	1875	120	1	778x1540x99
HLA1113DFJE	762x1830x68	H13	41,4	2250	120	1	1836x89x768
HLA1113DGBE	915x305x68	H13	8,4	450	120	1	931x321x99
HLA1113DGGE	915x915x68	H13	24,9	1350	120	1	931x108x931
HLA1113DGHE	915x1220x68	H13	33,2	1800	120	1	1236x89x931
HLA1113DGIE	915x1524x68	H13	41,4	2250	120	1	931x1540x99
HLA1113DGJE	915x1830x68	H13	49,7	2700	120	1	931x1846x99
HLA1114DBBE	305x305x68	H14	2,8	150	140	1	311x89x311
HLA1114DCCE	457x457x68	H14	6,2	335	140	1	463x89x463
HLA1114DBEE	305x610x68	H14	5,5	300	140	1	616x89x311
HLA1114DCFE	457x610x68	H14	8,3	450	140	1	473x626x99
HLA1114DCBE	457x305x68	H14	4,2	225	140	1	473x321x99
HLA1114DEEE	610x610x68	H14	11,1	600	140	1	616x89x616
HLA1114DEGE	610x915x68	H14	16,6	900	140	1	616x89x921
HLA1114DEHE	610x1220x68	H14	22,1	1200	140	1	1226x89x616
HLA1114DEIE	610x1524x68	H14	27,6	1500	140	1	626x1540x99
HLA1114DEJE	610x1830x68	H14	33,1	1800	140	1	1836x89x616
HLA1114DFBE	762x305x68	H14	7,0	375	140	1	778x321x99
HLA1114DFEE	762x610x68	H14	13,9	750	140	1	778x626x99
HLA1114DFFE	762x762x68	H14	17,3	950	140	1	778x778x99
HLA1114DFGE	762x915x68	H14	20,7	1125	140	1	921x89x768
HLA1114DFHE	762x1220x68	H14	27,6	1500	140	1	778x1236x99
HLA1114DFIE	762x1524x68	H14	34,5	1875	140	1	778x1540x99
HLA1114DFJE	762x1830x68	H14	41,4	2250	140	1	1836x89x768
HLA1114DGBE	915x305x68	H14	8,4	450	140	1	931x321x99
HLA1114DGGE	915x915x68	H14	24,9	1350	140	1	931x108x931
HLA1114DGHE	915x1220x68	H14	33,2	1800	140	1	1236x89x931
HLA1114DGIE	915x1524x68	H14	41,4	2250	140	1	931x1540x99
HLA1114DGJE	915x1830x68	H14	49,7	2700	140	1	931x1846x99

## HEPA HLA-G series

**E10** **E11** **H13** **H14**



### SPECIFICATIONS

**Application:** Cleanrooms, operating rooms  
**Frame:** Extruded aluminium  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filter class according to EN1822:** E10, E11, H13 and H14  
**Maximum final pressure drop:** 500Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight construction
- Lower pressure drop than 68 mm implementation
- Every filter is delivered with a test certificate
- HLA HEPA are fitted with 2 protection grids

The HEPA filters are checked for leak proofness at the end of the production process. It is advised to validate the functioning of the airhandling unit after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1110DBBG	305x305x80	E10	3,3	150	55	1	321x103x321
HLA1110DCCG	457x457x80	E10	7,4	335	55	1	473x103x473
HLA1110DBEG	305x610x80	E10	6,6	300	55	1	321x103x626
HLA1110DCEG	457x610x80	E10	9,9	450	55	1	473x626x111
HLA1110DCBG	457x305x80	E10	5,0	225	55	1	473x321x111
HLA1110DEEG	610x610x80	E10	13,2	600	55	1	626x103x626
HLA1110DEGG	610x915x80	E10	19,8	900	55	1	626x103x931
HLA1110DEHG	610x1220x80	E10	26,4	1200	55	1	620x91x1230
HLA1110DEIG	610x1524x80	E10	32,9	1500	55	1	626x1540x111
HLA1110DEJG	610x1830x80	E10	39,5	1800	55	1	626x1846x111
HLA1110DFBG	762x305x80	E10	8,4	375	55	1	778x321x111
HLA1110DFEG	762x610x80	E10	16,6	750	55	1	778x626x111
HLA1110DFFG	762x762x80	E10	20,7	950	55	1	778x778x111
HLA1110DFGG	762x915x80	E10	24,8	1125	55	1	778x931x111
HLA1110DFHG	762x1220x80	E10	33,0	1500	55	1	778x1236x111
HLA1110DFIG	762x1524x80	E10	41,2	1875	55	1	778x1540x111
HLA1110DFJG	762x1830x80	E10	49,4	2250	55	1	778x1846x111
HLA1110DGBG	915x305x80	E10	10,0	450	55	1	931x321x111
HLA1110DGGG	915x915x80	E10	29,8	1350	55	1	931x931x111
HLA1110DGHG	915x1220x80	E10	39,7	1800	55	1	931x1236x111
HLA1110DGIG	915x1524x80	E10	49,5	2250	55	1	931x1540x111
HLA1110DGJG	915x1830x80	E10	59,4	2700	55	1	931x1846x111
HLA1111DBBG	305x305x80	E11	3,3	150	60	1	321x103x321
HLA1111DCCG	457x457x80	E11	7,4	335	60	1	473x103x473
HLA1111DBEG	305x610x80	E11	6,6	300	60	1	321x103x626
HLA1111DCEG	457x610x80	E11	9,9	450	60	1	473x626x111
HLA1111DCBG	457x305x80	E11	5,0	225	60	1	473x321x111
HLA1111DEEG	610x610x80	E11	13,2	600	60	1	626x103x626
HLA1111DEGG	610x915x80	E11	19,8	900	60	1	626x103x931
HLA1111DEHG	610x1220x80	E11	26,4	1200	60	1	620x91x1230
HLA1111DEIG	610x1524x80	E11	32,9	1500	60	1	626x1540x111
HLA1111DEJG	610x1830x80	E11	39,5	1800	60	1	626x1846x111
HLA1111DFBG	762x305x80	E11	8,4	375	60	1	778x321x111
HLA1111DFEG	762x610x80	E11	16,6	750	60	1	778x626x111
HLA1111DFFG	762x762x80	E11	20,7	950	60	1	778x778x111
HLA1111DFGG	762x915x80	E11	24,8	1125	60	1	778x931x111
HLA1111DFHG	762x1220x80	E11	33,0	1500	60	1	778x1236x111
HLA1111DFIG	762x1524x80	E11	41,2	1875	60	1	778x1540x111
HLA1111DFJG	762x1830x80	E11	49,4	2250	60	1	778x1846x111
HLA1111DGBG	915x305x80	E11	10,0	450	60	1	931x321x111
HLA1111DGGG	915x915x80	E11	29,8	1350	60	1	931x931x111
HLA1111DGHG	915x1220x80	E11	39,7	1800	60	1	931x1236x111
HLA1111DGIG	915x1524x80	E11	49,5	2250	60	1	931x1540x111
HLA1111DGJG	915x1830x80	E11	59,4	2700	60	1	931x1846x111
HLA1113DBBG	305x305x80	H13	3,3	150	90	1	321x103x321
HLA1113DCCG	457x457x80	H13	7,4	335	90	1	473x103x473
HLA1113DBEG	305x610x80	H13	6,6	300	90	1	321x103x626
HLA1113DCEG	457x610x80	H13	9,9	450	90	1	473x626x111
HLA1113DCBG	457x305x80	H13	5,0	225	90	1	473x321x111
HLA1113DEEG	610x610x80	H13	13,2	600	90	1	626x103x626
HLA1113DEGG	610x915x80	H13	19,8	900	90	1	626x103x931
HLA1113DEHG	610x1220x80	H13	26,4	1200	90	1	620x91x1230

continued >>



## HEPA filters

### HEPA HLA-G series (continued)

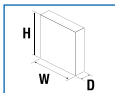


Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1113DEIG	610x1524x80	H13	32,9	1500	90	1	626x1540x111
HLA1113DEJG	610x1830x80	H13	39,5	1800	90	1	626x1846x111
HLA1113DFBG	762x305x80	H13	8,4	375	90	1	778x321x111
HLA1113DFEG	762x610x80	H13	16,6	750	90	1	778x626x111
HLA1113DFFG	762x762x80	H13	20,7	950	90	1	778x778x111
HLA1113DFGG	762x915x80	H13	24,8	1125	90	1	778x931x111
HLA1113DFHG	762x1220x80	H13	33,0	1500	90	1	778x1236x111
HLA1113DFIG	762x1524x80	H13	41,2	1875	90	1	778x1540x111
HLA1113DFJG	762x1830x80	H13	49,4	2250	90	1	778x1846x111
HLA1113DGBG	915x305x80	H13	10,0	450	90	1	931x321x111
HLA1113DGGG	915x915x80	H13	29,8	1350	90	1	931x931x111
HLA1113DGHG	915x1220x80	H13	39,7	1800	90	1	931x1236x111
HLA1113DGIG	915x1524x80	H13	49,5	2250	90	1	931x1540x111
HLA1113DGJG	915x1830x80	H13	59,4	2700	90	1	931x1846x111
HLA1114DBBG	305x305x80	H14	3,3	150	100	1	321x103x321
HLA1114DCCG	457x457x80	H14	7,4	335	100	1	473x103x473
HLA1114DBEG	305x610x80	H14	6,6	300	100	1	321x103x626
HLA1114DCEG	457x610x80	H14	9,9	450	100	1	473x626x111
HLA1114DCBG	457x305x80	H14	5,0	225	100	1	473x321x111
HLA1114DEEG	610x610x80	H14	13,2	600	100	1	626x103x626
HLA1114DEGG	610x915x80	H14	19,8	900	100	1	626x103x931
HLA1114DEHG	610x1220x80	H14	26,4	1200	100	1	620x91x1230
HLA1114DEIG	610x1524x80	H14	32,9	1500	100	1	626x1540x111
HLA1114DEJG	610x1830x80	H14	39,5	1800	100	1	626x1846x111
HLA1114DFBG	762x305x80	H14	8,4	375	100	1	778x321x111
HLA1114DFEG	762x610x80	H14	16,6	750	100	1	778x626x111
HLA1114DFFG	762x762x80	H14	20,7	950	100	1	778x778x111
HLA1114DFGG	762x915x80	H14	24,8	1125	100	1	778x931x111
HLA1114DFHG	762x1220x80	H14	33,0	1500	100	1	778x1236x111
HLA1114DFIG	762x1524x80	H14	41,2	1875	100	1	778x1540x111
HLA1114DFJG	762x1830x80	H14	49,4	2250	100	1	778x1846x111
HLA1114DGBG	915x305x80	H14	10,0	450	100	1	931x321x111
HLA1114DGGG	915x915x80	H14	29,8	1350	100	1	931x931x111
HLA1114DGHG	915x1220x80	H14	39,7	1800	100	1	931x1236x111
HLA1114DGIG	915x1524x80	H14	49,5	2250	100	1	931x1540x111
HLA1114DGJG	915x1830x80	H14	59,4	2700	100	1	931x1846x111

# HEPA filters

## HEPA HLA-I series

**E10** **E11** **H13** **H14**



### SPECIFICATIONS

**Application:** Cleanrooms, operating rooms  
**Frame:** Extruded aluminium  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filter class according to EN1822:** E10, E11, H13 and H14  
**Maximum final pressure drop:** 500Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight construction
- Lower pressure drop than 68 and 80 mm implementation
- Every filter is delivered with a test certificate
- HLA HEPA are fitted with 2 protection grids

The HEPA filters are checked for leak proofness at the end of the production process. It is advised to validate the functioning of the airhandling units after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1110DBBI	305x305x90	E10	3,5	150	50	1	321x103x321
HLA1110DCCI	457x457x90	E10	7,8	335	50	1	473x473x121
HLA1110DBEI	305x610x90	E10	6,9	300	50	1	321x103x626
HLA1110DCEI	457x610x90	E10	10,3	450	50	1	473x626x121
HLA1110DCBI	457x305x90	E10	5,2	225	50	1	473x321x121
HLA1110DEEI	610x610x90	E10	13,8	600	50	1	626x103x626
HLA1110DEGI	610x915x90	E10	20,7	900	50	1	626x103x931
HLA1110DEHI	610x1220x90	E10	27,5	1200	50	1	626x1236x121
HLA1110DEII	610x1524x90	E10	34,3	1500	50	1	626x1540x121
HLA1110DEJI	610x1830x90	E10	41,2	1800	50	1	626x1846x121
HLA1110DFBI	762x305x90	E10	8,7	375	50	1	778x321x121
HLA1110DFEI	762x610x90	E10	17,3	750	50	1	778x626x121
HLA1110DFFI	762x762x90	E10	21,5	950	50	1	778x778x121
HLA1110DFGI	762x915x90	E10	25,8	1125	50	1	778x931x121
HLA1110DFHI	762x1220x90	E10	34,4	1500	50	1	1236x108x778
HLA1110DFJI	762x1524x90	E10	42,9	1875	50	1	778x1540x121
HLA1110DFI	762x1830x90	E10	51,5	2250	50	1	778x1846x121
HLA1110DGBI	915x305x90	E10	10,5	450	50	1	931x321x121
HLA1110DGGI	915x915x90	E10	31,1	1350	50	1	931x108x931
HLA1110DGHI	915x1220x90	E10	41,4	1800	50	1	1236x108x931
HLA1110DGII	915x1524x90	E10	51,6	2250	50	1	1540x108x931
HLA1110DGJI	915x1830x90	E10	62,0	2700	50	1	931x1846x121
HLA1111DBBI	305x305x90	E11	3,5	150	55	1	321x103x321
HLA1111DCCI	457x457x90	E11	7,8	335	55	1	473x473x121
HLA1111DBEI	305x610x90	E11	6,9	300	55	1	321x103x626
HLA1111DCEI	457x610x90	E11	10,3	450	55	1	473x626x121
HLA1111DCBI	457x305x90	E11	5,2	225	55	1	473x321x121
HLA1111DEEI	610x610x90	E11	13,8	600	55	1	626x103x626
HLA1111DEGI	610x915x90	E11	20,7	900	55	1	626x103x931
HLA1111DEHI	610x1220x90	E11	27,5	1200	55	1	626x1236x121
HLA1111DEII	610x1524x90	E11	34,3	1500	55	1	626x1540x121
HLA1111DEJI	610x1830x90	E11	41,2	1800	55	1	626x1846x121
HLA1111DFBI	762x305x90	E11	8,7	375	55	1	778x321x121
HLA1111DFEI	762x610x90	E11	17,3	750	55	1	778x626x121
HLA1111DFFI	762x762x90	E11	21,5	950	55	1	778x778x121
HLA1111DFGI	762x915x90	E11	25,8	1125	55	1	778x931x121
HLA1111DFHI	762x1220x90	E11	34,4	1500	55	1	1236x108x778
HLA1111DFJI	762x1524x90	E11	42,9	1875	55	1	778x1540x121
HLA1111DFI	762x1830x90	E11	51,5	2250	55	1	778x1846x121
HLA1111DGBI	915x305x90	E11	10,5	450	55	1	931x321x121
HLA1111DGGI	915x915x90	E11	31,1	1350	55	1	931x108x931
HLA1111DGHI	915x1220x90	E11	41,4	1800	55	1	1236x108x931
HLA1111DGII	915x1524x90	E11	51,6	2250	55	1	1540x108x931
HLA1111DGJI	915x1830x90	E11	62,0	2700	55	1	931x1846x121
HLA1113DBBI	305x305x90	H13	3,5	150	80	1	321x103x321
HLA1113DCCI	457x457x90	H13	7,8	335	80	1	473x473x121
HLA1113DBEI	305x610x90	H13	6,9	300	80	1	321x103x626
HLA1113DCEI	457x610x90	H13	10,3	450	80	1	473x626x121
HLA1113DCBI	457x305x90	H13	5,2	225	80	1	473x321x121
HLA1113DEEI	610x610x90	H13	13,8	600	80	1	626x103x626
HLA1113DEGI	610x915x90	H13	20,7	900	80	1	626x103x931
HLA1113DEHI	610x1220x90	H13	27,5	1200	80	1	626x1236x121

continued >>

## HEPA filters

### HEPA HLA-I series (continued)

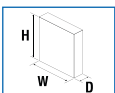


Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1113DEII	610x1524x90	H13	34,3	1500	80	1	626x1540x121
HLA1113DEJI	610x1830x90	H13	41,2	1800	80	1	626x1846x121
HLA1113DFBI	762x305x90	H13	8,7	375	80	1	778x321x121
HLA1113DFEI	762x610x90	H13	17,3	750	80	1	778x626x121
HLA1113DFFI	762x762x90	H13	21,5	950	80	1	778x778x121
HLA1113DFGI	762x915x90	H13	25,8	1125	80	1	778x931x121
HLA1113DFHI	762x1220x90	H13	34,4	1500	80	1	1236x108x778
HLA1113DFJI	762x1524x90	H13	42,9	1875	80	1	778x1540x121
HLA1113DFJII	762x1830x90	H13	51,5	2250	80	1	778x1846x121
HLA1113DGBI	915x305x90	H13	10,5	450	80	1	931x321x121
HLA1113DGGI	915x915x90	H13	31,1	1350	80	1	931x108x931
HLA1113DGHI	915x1220x90	H13	41,4	1800	80	1	1236x108x931
HLA1113DGII	915x1524x90	H13	51,6	2250	80	1	1540x108x931
HLA1113DGJI	915x1830x90	H13	62,0	2700	80	1	931x1846x121
HLA1114DBBI	305x305x90	H14	3,5	150	90	1	321x103x321
HLA1114DCCI	457x457x90	H14	7,8	335	90	1	473x473x121
HLA1114DBEI	305x610x90	H14	6,9	300	90	1	321x103x626
HLA1114DCEI	457x610x90	H14	10,3	450	90	1	473x626x121
HLA1114DCBI	457x305x90	H14	5,2	225	90	1	473x321x121
HLA1114DEEI	610x610x90	H14	13,8	600	90	1	626x103x626
HLA1114DEGI	610x915x90	H14	20,7	900	90	1	626x103x931
HLA1114DEHI	610x1220x90	H14	27,5	1200	90	1	626x1236x121
HLA1114DEJI	610x1524x90	H14	34,3	1500	90	1	626x1540x121
HLA1114DEJII	610x1830x90	H14	41,2	1800	90	1	626x1846x121
HLA1114DFBI	762x305x90	H14	8,7	375	90	1	778x321x121
HLA1114DFEI	762x610x90	H14	17,3	750	90	1	778x626x121
HLA1114DFFI	762x762x90	H14	21,5	950	90	1	778x778x121
HLA1114DFGI	762x915x90	H14	25,8	1125	90	1	778x931x121
HLA1114DFHI	762x1220x90	H14	34,4	1500	90	1	1236x108x778
HLA1114DFJII	762x1524x90	H14	42,9	1875	90	1	778x1540x121
HLA1114DFJII	762x1830x90	H14	51,5	2250	90	1	778x1846x121
HLA1114DGBI	915x305x90	H14	10,5	450	90	1	931x321x121
HLA1114DGGI	915x915x90	H14	31,1	1350	90	1	931x108x931
HLA1114DGHI	915x1220x90	H14	41,4	1800	90	1	1236x108x931
HLA1114DGII	915x1524x90	H14	51,6	2250	90	1	1540x108x931
HLA1114DGJI	915x1830x90	H14	62,0	2700	90	1	931x1846x121

## HEPA filters

### HEPA HLA-Q series

E10 E11 H13 H14



### SPECIFICATIONS

**Application:** Cleanrooms, operating rooms

**Frame:** Extruded aluminium

**Spacers:** Hotmelt

**Bonding:** 2 component polyurethane

**Medium:** Glass fibre paper

**Gasket:** Continuous poured gasket

**Filter class according to EN1822:** E10, E11, H13 and H14

**Maximum final pressure drop:** 500Pa

**Maximum temperature:** 70°C

**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight construction
- Lower pressure drop than 68, 80 and 90 mm implementation
- Every filter is delivered with a test certificate
- HLA HEPA are fitted with 2 protection grids

The HEPA filters are checked for leak proofness at the end of the production process. It is advised to validate the functioning of the airhandling units after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1110DBBQ	305x305x110	E10	4,4	150	35	1	320x165x320
HLA1110DCCQ	457x457x110	E10	9,9	335	35	1	473x473x141
HLA1110DBEQ	305x610x110	E10	8,8	300	35	1	320x125x625
HLA1110DCEQ	457x610x110	E10	13,2	450	35	1	473x626x141
HLA1110DCBQ	457x305x110	E10	6,7	225	35	1	473x321x141
HLA1110DEEQ	610x610x110	E10	17,7	600	35	1	616x165x616
HLA1110DEGQ	610x915x110	E10	26,4	900	35	1	626x931x141
HLA1110DEHQ	610x1220x110	E10	35,2	1200	35	1	626x1236x141
HLA1110DEIQ	610x1524x110	E10	43,9	1500	35	1	626x1540x141
HLA1110DEJQ	610x1830x110	E10	52,7	1800	35	1	626x1846x141
HLA1110DFBQ	762x305x110	E10	11,2	375	35	1	778x321x141
HLA1110DFEQ	762x610x110	E10	22,1	750	35	1	778x626x141
HLA1110DFGQ	762x915x110	E10	27,6	950	35	1	778x778x141
HLA1110DFHQ	762x1220x110	E10	33,1	1125	35	1	778x931x141
HLA1110DFIQ	762x1524x110	E10	44,1	1500	35	1	778x1236x141
HLA1110DFJQ	762x1830x110	E10	55,0	1875	35	1	778x1540x141
HLA1110DGBQ	915x305x110	E10	66,0	2250	35	1	778x1846x141
HLA1110DGBQ	915x305x110	E10	13,4	450	35	1	931x321x141
HLA1110DGGQ	915x915x110	E10	39,8	1350	35	1	931x931x141
HLA1110DGHQ	915x1220x110	E10	53,0	1800	35	1	931x1236x141
HLA1110DGIQ	915x1524x110	E10	66,1	2250	35	1	931x1540x141
HLA1110DGJQ	915x1830x110	E10	79,3	2700	35	1	931x1846x141
HLA1111DBBQ	305x305x110	E11	4,4	150	40	1	320x165x320
HLA1111DCCQ	457x457x110	E11	9,9	335	40	1	473x473x141
HLA1111DBEQ	305x610x110	E11	8,8	300	40	1	320x125x625
HLA1111DCEQ	457x610x110	E11	13,2	450	40	1	473x626x141
HLA1111DCBQ	457x305x110	E11	6,7	225	40	1	473x321x141
HLA1111DEEQ	610x610x110	E11	17,7	600	40	1	616x165x616
HLA1111DEGQ	610x915x110	E11	26,4	900	40	1	626x931x141
HLA1111DEHQ	610x1220x110	E11	35,2	1200	40	1	626x1236x141
HLA1111DEIQ	610x1524x110	E11	43,9	1500	40	1	626x1540x141
HLA1111DEJQ	610x1830x110	E11	52,7	1800	40	1	626x1846x141
HLA1111DFBQ	762x305x110	E11	11,2	375	40	1	778x321x141
HLA1111DFEQ	762x610x110	E11	22,1	750	40	1	778x626x141
HLA1111DFGQ	762x915x110	E11	27,6	950	40	1	778x778x141
HLA1111DFHQ	762x1220x110	E11	33,1	1125	40	1	778x931x141
HLA1111DFIQ	762x1524x110	E11	44,1	1500	40	1	778x1236x141
HLA1111DFJQ	762x1830x110	E11	55,0	1875	40	1	778x1540x141
HLA1111DGBQ	915x305x110	E11	66,0	2250	40	1	778x1846x141
HLA1111DGBQ	915x305x110	E11	13,4	450	40	1	931x321x141
HLA1111DGGQ	915x915x110	E11	39,8	1350	40	1	931x931x141
HLA1111DGHQ	915x1220x110	E11	53,0	1800	40	1	931x1236x141
HLA1111DGJQ	915x1524x110	E11	66,1	2250	40	1	931x1540x141
HLA1111DGJQ	915x1830x110	E11	79,3	2700	40	1	931x1846x141
HLA1113DBBQ	305x305x110	H13	4,4	150	60	1	320x165x320
HLA1113DCCQ	457x457x110	H13	9,9	335	60	1	473x473x141
HLA1113DBEQ	305x610x110	H13	8,8	300	60	1	320x125x625
HLA1113DCEQ	457x610x110	H13	13,2	450	60	1	473x626x141
HLA1113DCBQ	457x305x110	H13	6,7	225	60	1	473x321x141
HLA1113DEEQ	610x610x110	H13	17,7	600	60	1	616x165x616
HLA1113DEGQ	610x915x110	H13	26,4	900	60	1	626x931x141
HLA1113DEHQ	610x1220x110	H13	35,2	1200	60	1	626x1236x141

continued >>

## HEPA filters

### HEPA HLA-Q series (continued)

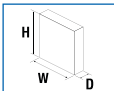


Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1113DEIQ	610x1524x110	H13	43,9	1500	60	1	626x1540x141
HLA1113DEJQ	610x1830x110	H13	52,7	1800	60	1	626x1846x141
HLA1113DFBQ	762x305x110	H13	11,2	375	60	1	778x321x141
HLA1113DFEQ	762x610x110	H13	22,1	750	60	1	778x626x141
HLA1113DFFQ	762x762x110	H13	27,6	950	60	1	778x778x141
HLA1113DFGQ	762x915x110	H13	33,1	1125	60	1	778x931x141
HLA1113DFHQ	762x1220x110	H13	44,1	1500	60	1	778x1236x141
HLA1113DFIQ	762x1524x110	H13	55,0	1875	60	1	778x1540x141
HLA1113DFJQ	762x1830x110	H13	66,0	2250	60	1	778x1846x141
HLA1113DGBQ	915x305x110	H13	13,4	450	60	1	931x321x141
HLA1113DGGQ	915x915x110	H13	39,8	1350	60	1	931x931x141
HLA1113DGHQ	915x1220x110	H13	53,0	1800	60	1	931x1236x141
HLA1113DGIQ	915x1524x110	H13	66,1	2250	60	1	931x1540x141
HLA1113DGJQ	915x1830x110	H13	79,3	2700	60	1	931x1846x141
HLA1114DBBQ	305x305x110	H14	4,4	150	70	1	320x165x320
HLA1114DCCQ	457x457x110	H14	9,9	335	70	1	473x473x141
HLA1114DBEQ	305x610x110	H14	8,8	300	70	1	320x125x625
HLA1114DCEQ	457x610x110	H14	13,2	450	70	1	473x626x141
HLA1114DCBQ	457x305x110	H14	6,7	225	70	1	473x321x141
HLA1114DEEQ	610x610x110	H14	17,7	600	70	1	616x165x616
HLA1114DEGQ	610x915x110	H14	26,4	900	70	1	626x931x141
HLA1114DEHQ	610x1220x110	H14	35,2	1200	70	1	626x1236x141
HLA1114DEIQ	610x1524x110	H14	43,9	1500	70	1	626x1540x141
HLA1114DEJQ	610x1830x110	H14	52,7	1800	70	1	626x1846x141
HLA1114DFBQ	762x305x110	H14	11,2	375	70	1	778x321x141
HLA1114DFEQ	762x610x110	H14	22,1	750	70	1	778x626x141
HLA1114DFFQ	762x762x110	H14	27,6	950	70	1	778x778x141
HLA1114DFGQ	762x915x110	H14	33,1	1125	70	1	778x931x141
HLA1114DFHQ	762x1220x110	H14	44,1	1500	70	1	778x1236x141
HLA1114DFIQ	762x1524x110	H14	55,0	1875	70	1	778x1540x141
HLA1114DFJQ	762x1830x110	H14	66,0	2250	70	1	778x1846x141
HLA1114DGBQ	915x305x110	H14	13,4	450	70	1	931x321x141
HLA1114DGGQ	915x915x110	H14	39,8	1350	70	1	931x931x141
HLA1114DGHQ	915x1220x110	H14	53,0	1800	70	1	931x1236x141
HLA1114DGIQ	915x1524x110	H14	66,1	2250	70	1	931x1540x141
HLA1114DGJQ	915x1830x110	H14	79,3	2700	70	1	931x1846x141

## HEPA filters

### HEPA HLA-L series

E10 E11 H13 H14



### SPECIFICATIONS

**Application:** Cleanrooms, operating rooms  
**Frame:** Extruded aluminium  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Continuous poured gasket  
**Filter class according to EN1822:** E10, E11, H13 and H14  
**Maximum final pressure drop:** 500Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight construction
- Every filter is delivered with a test certificate
- HLA HEPA are fitted with 2 protection grids

The HEPA filters are checked for leak proofness at the end of the production process. It is advised to validate the functioning of the airhandling units after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1110DBBL	305x305x150	E10	2,8	150	65	1	321x321x181
HLA1110DCCL	457x457x150	E10	6,2	335	65	1	473x473x181
HLA1110DBEL	305x610x150	E10	5,5	300	65	1	321x626x181
HLA1110DCEL	457x610x150	E10	8,3	450	65	1	473x626x181
HLA1110DCBL	457x305x150	E10	4,2	225	65	1	473x321x181
HLA1110DEEL	610x610x150	E10	11,1	600	65	1	626x626x181
HLA1110DEGL	610x915x150	E10	16,6	900	65	1	626x931x181
HLA1110DEHL	610x1220x150	E10	22,1	1200	65	1	626x1236x181
HLA1110DEIL	610x1524x150	E10	27,6	1500	65	1	626x1540x181
HLA1110DEJL	610x1830x150	E10	33,1	1800	65	1	626x1846x181
HLA1110DFBL	762x305x150	E10	7,0	375	65	1	778x321x181
HLA1110DFEL	762x610x150	E10	13,9	750	65	1	778x626x181
HLA1110DFFL	762x762x150	E10	17,3	950	65	1	778x778x181
HLA1110DFGL	762x915x150	E10	20,7	1125	65	1	778x931x181
HLA1110DFHL	762x1220x150	E10	27,6	1500	65	1	778x1236x181
HLA1110DFIL	762x1524x150	E10	34,5	1875	65	1	778x1540x181
HLA1110DFJL	762x1830x150	E10	41,4	2250	65	1	778x1846x181
HLA1110DGBL	915x305x150	E10	8,4	450	65	1	931x321x181
HLA1110DGGL	915x915x150	E10	24,9	1350	65	1	931x931x181
HLA1110DGHL	915x1220x150	E10	33,2	1800	65	1	931x1236x181
HLA1110DGIL	915x1524x150	E10	41,4	2250	65	1	931x1540x181
HLA1110DGJL	915x1830x150	E10	49,7	2700	65	1	931x1846x181
HLA1111DBBL	305x305x150	E11	2,8	150	80	1	321x321x181
HLA1111DCCL	457x457x150	E11	6,2	335	80	1	473x473x181
HLA1111DBEL	305x610x150	E11	5,5	300	80	1	321x626x181
HLA1111DCEL	457x610x150	E11	8,3	450	80	1	473x626x181
HLA1111DCBL	457x305x150	E11	4,2	225	80	1	473x321x181
HLA1111DEEL	610x610x150	E11	11,1	600	80	1	626x626x181
HLA1111DEGL	610x915x150	E11	16,6	900	80	1	626x931x181
HLA1111DEHL	610x1220x150	E11	22,1	1200	80	1	626x1236x181
HLA1111DEIL	610x1524x150	E11	27,6	1500	80	1	626x1540x181
HLA1111DEJL	610x1830x150	E11	33,1	1800	80	1	626x1846x181
HLA1111DFBL	762x305x150	E11	7,0	375	80	1	778x321x181
HLA1111DFEL	762x610x150	E11	13,9	750	80	1	778x626x181
HLA1111DFFL	762x762x150	E11	17,3	950	80	1	778x778x181
HLA1111DFGL	762x915x150	E11	20,7	1125	80	1	778x931x181
HLA1111DFHL	762x1220x150	E11	27,6	1500	80	1	778x1236x181
HLA1111DFIL	762x1524x150	E11	34,5	1875	80	1	778x1540x181
HLA1111DFJL	762x1830x150	E11	41,4	2250	80	1	778x1846x181
HLA1111DGBL	915x305x150	E11	8,4	450	80	1	931x321x181
HLA1111DGGL	915x915x150	E11	24,9	1350	80	1	931x931x181
HLA1111DGHL	915x1220x150	E11	33,2	1800	80	1	931x1236x181
HLA1111DGIL	915x1524x150	E11	41,4	2250	80	1	931x1540x181
HLA1111DGJL	915x1830x150	E11	49,7	2700	80	1	931x1846x181
HLA1113DBBL	305x305x150	H13	2,8	150	120	1	321x321x181
HLA1113DCCL	457x457x150	H13	6,2	335	120	1	473x473x181
HLA1113DBEL	305x610x150	H13	5,5	300	120	1	321x626x181
HLA1113DCEL	457x610x150	H13	8,3	450	120	1	473x626x181
HLA1113DCBL	457x305x150	H13	4,2	225	120	1	473x321x181
HLA1113DEEL	610x610x150	H13	11,1	600	120	1	626x626x181
HLA1113DEGL	610x915x150	H13	16,6	900	120	1	626x931x181
HLA1113DEHL	610x1220x150	H13	22,1	1200	120	1	626x1236x181

continued >>

## HEPA filters

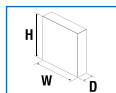
### HEPA HLA-L series (continued)



Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1113DEIL	610x1524x150	H13	27,6	1500	120	1	626x1540x181
HLA1113DEJL	610x1830x150	H13	33,1	1800	120	1	626x1846x181
HLA1113DFBL	762x305x150	H13	7,0	375	120	1	778x321x181
HLA1113DFEL	762x610x150	H13	13,9	750	120	1	778x626x181
HLA1113DFFL	762x762x150	H13	17,3	950	120	1	778x778x181
HLA1113DFGL	762x915x150	H13	20,7	1125	120	1	778x931x181
HLA1113DFHL	762x1220x150	H13	27,6	1500	120	1	778x1236x181
HLA1113DFIL	762x1524x150	H13	34,5	1875	120	1	778x1540x181
HLA1113DFJL	762x1830x150	H13	41,4	2250	120	1	778x1846x181
HLA1113DGBL	915x305x150	H13	8,4	450	120	1	931x321x181
HLA1113DGGL	915x915x150	H13	24,9	1350	120	1	931x931x181
HLA1113DGHL	915x1220x150	H13	33,2	1800	120	1	931x1236x181
HLA1113DGIL	915x1524x150	H13	41,4	2250	120	1	931x1540x181
HLA1113DGJL	915x1830x150	H13	49,7	2700	120	1	931x1846x181
HLA1114DBBL	305x305x150	H14	2,8	150	140	1	321x321x181
HLA1114DCCL	457x457x150	H14	6,2	335	140	1	473x473x181
HLA1114DBEL	305x610x150	H14	5,5	300	140	1	321x626x181
HLA1114DCEL	457x610x150	H14	8,3	450	140	1	473x626x181
HLA1114DCBL	457x305x150	H14	4,2	225	140	1	473x321x181
HLA1114DEEL	610x610x150	H14	11,1	600	140	1	626x626x181
HLA1114DEGL	610x915x150	H14	16,6	900	140	1	626x931x181
HLA1114DEHL	610x1220x150	H14	22,1	1200	140	1	626x1236x181
HLA1114DEIL	610x1524x150	H14	27,6	1500	140	1	626x1540x181
HLA1114DEJL	610x1830x150	H14	33,1	1800	140	1	626x1846x181
HLA1114DFBL	762x305x150	H14	7,0	375	140	1	778x321x181
HLA1114DFEL	762x610x150	H14	13,9	750	140	1	778x626x181
HLA1114DFFL	762x762x150	H14	17,3	950	140	1	778x778x181
HLA1114DFGL	762x915x150	H14	20,7	1125	140	1	778x931x181
HLA1114DFHL	762x1220x150	H14	27,6	1500	140	1	778x1236x181
HLA1114DFIL	762x1524x150	H14	34,5	1875	140	1	778x1540x181
HLA1114DFJL	762x1830x150	H14	41,4	2250	140	1	778x1846x181
HLA1114DGBL	915x305x150	H14	8,4	450	140	1	931x321x181
HLA1114DGGL	915x915x150	H14	24,9	1350	140	1	931x931x181
HLA1114DGHL	915x1220x150	H14	33,2	1800	140	1	931x1236x181
HLA1114DGIL	915x1524x150	H14	41,4	2250	140	1	931x1540x181
HLA1114DGJL	915x1830x150	H14	49,7	2700	140	1	931x1846x181

## HEPA HLA-J series

**E10 E11 H13 H14**



### SPECIFICATIONS

**Application:** Cleanrooms, operating rooms  
**Frame:** Extruded aluminium  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Glass fibre paper  
**Gasket:** Knife construction for mounting in gelseal  
**Filter class according to EN1822:** E10, E11, H13 and H14  
**Maximum final pressure drop:** 500Pa  
**Maximum temperature:** 70°C  
**Maximum relative humidity:** 90%

### ADVANTAGES

- Lightweight construction
- Every filter is delivered with a test certificate
- Uitstekende afdichting bij montage met gelseal frame
- HLA HEPA are fitted with 2 protection grids

The HEPA filters are checked for leak proofness at the end of the production proces. It is advised to validate the functioning of the airhandling unit after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m²)	Airflow (m³ /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1510DBBJ	305x305x102,5	E10	2,8	150	65	1	321x321x134
HLA1510DCCJ	457x457x102,5	E10	6,2	335	65	1	473x473x134
HLA1510DBEJ	305x610x102,5	E10	5,5	300	65	1	321x626x134
HLA1510DCEJ	457x610x102,5	E10	8,3	450	65	1	473x626x134
HLA1510DCBJ	457x305x102,5	E10	4,2	225	65	1	473x321x134
HLA1510DEEJ	610x610x102,5	E10	11,1	600	65	1	626x626x134
HLA1510DEGJ	610x915x102,5	E10	16,6	900	65	1	626x931x134
HLA1510DEHJ	610x1220x102,5	E10	22,1	1200	65	1	626x1236x134
HLA1510DEIJ	610x1524x102,5	E10	27,6	1500	65	1	626x1540x134
HLA1510DEJJ	610x1830x102,5	E10	33,1	1800	65	1	626x1846x134
HLA1510DFBJ	762x305x102,5	E10	7,0	375	65	1	778x321x134
HLA1510DFEJ	762x610x102,5	E10	13,9	750	65	1	778x626x134
HLA1510DFFJ	762x762x102,5	E10	17,3	950	65	1	778x778x134
HLA1510DFGJ	762x915x102,5	E10	20,7	1125	65	1	778x931x134
HLA1510DFHJ	762x1220x102,5	E10	27,6	1500	65	1	778x1236x134
HLA1510DFIJ	762x1524x102,5	E10	34,5	1875	65	1	778x1540x134
HLA1510DFJJ	762x1830x102,5	E10	41,4	2250	65	1	778x1846x134
HLA1510DGBJ	915x305x102,5	E10	8,4	450	65	1	931x321x134
HLA1510DGGJ	915x915x102,5	E10	24,9	1350	65	1	931x931x134
HLA1510DGHJ	915x1220x102,5	E10	33,2	1800	65	1	931x1236x134
HLA1510DGJ	915x1524x102,5	E10	41,4	2250	65	1	931x1540x134
HLA1510DGJJ	915x1830x102,5	E10	49,7	2700	65	1	931x1846x134
HLA1511DBBJ	305x305x102,5	E11	2,8	150	80	1	321x321x134
HLA1511DCCJ	457x457x102,5	E11	6,2	335	80	1	473x473x134
HLA1511DBEJ	305x610x102,5	E11	5,5	300	80	1	321x626x134
HLA1511DCEJ	457x610x102,5	E11	8,3	450	80	1	473x626x134
HLA1511DCBJ	457x305x102,5	E11	4,2	225	80	1	473x321x134
HLA1511DEEJ	610x610x102,5	E11	11,1	600	80	1	626x626x134
HLA1511DEGJ	610x915x102,5	E11	16,6	900	80	1	626x931x134
HLA1511DEHJ	610x1220x102,5	E11	22,1	1200	80	1	626x1236x134
HLA1511DEIJ	610x1524x102,5	E11	27,6	1500	80	1	626x1540x134
HLA1511DEJJ	610x1830x102,5	E11	33,1	1800	80	1	626x1846x134
HLA1511DFBJ	762x305x102,5	E11	7,0	375	80	1	778x321x134
HLA1511DFEJ	762x610x102,5	E11	13,9	750	80	1	778x626x134
HLA1511DFFJ	762x762x102,5	E11	17,3	950	80	1	778x778x134
HLA1511DFGJ	762x915x102,5	E11	20,7	1125	80	1	778x931x134
HLA1511DFHJ	762x1220x102,5	E11	27,6	1500	80	1	778x1236x134
HLA1511DFIJ	762x1524x102,5	E11	34,5	1875	80	1	778x1540x134
HLA1511DFJJ	762x1830x102,5	E11	41,4	2250	80	1	778x1846x134
HLA1511DGBJ	915x305x102,5	E11	8,4	450	80	1	931x321x134
HLA1511DGGJ	915x915x102,5	E11	24,9	1350	80	1	931x931x134
HLA1511DGHJ	915x1220x102,5	E11	33,2	1800	80	1	931x1236x134
HLA1511DGJ	915x1524x102,5	E11	41,4	2250	80	1	931x1540x134
HLA1511DGJJ	915x1830x102,5	E11	49,7	2700	80	1	931x1846x134
HLA1513DBBJ	305x305x102,5	H13	2,8	150	120	1	321x321x134
HLA1513DCCJ	457x457x102,5	H13	6,2	335	120	1	473x473x134
HLA1513DBEJ	305x610x102,5	H13	5,5	300	120	1	321x626x134
HLA1513DCEJ	457x610x102,5	H13	8,3	450	120	1	473x626x134
HLA1513DCBJ	457x305x102,5	H13	4,2	225	120	1	473x321x134
HLA1513DEEJ	610x610x102,5	H13	11,1	600	120	1	626x626x134
HLA1513DEGJ	610x915x102,5	H13	16,6	900	120	1	626x931x134
HLA1513DEHJ	610x1220x102,5	H13	22,1	1200	120	1	626x1236x134

continued >>

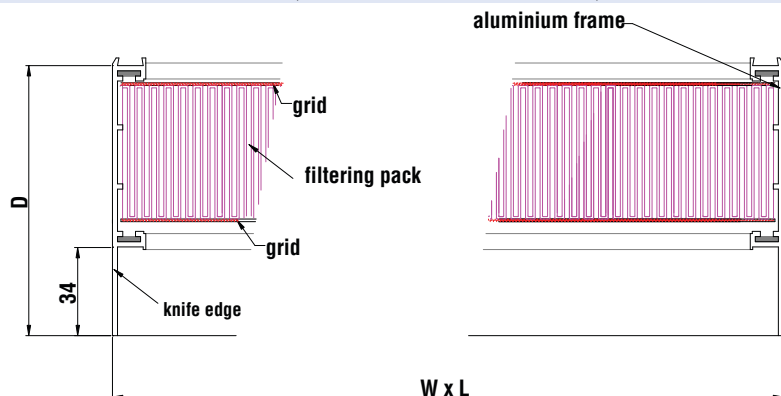


## HEPA filters

### HEPA HLA-J series (continued)



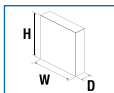
Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> / h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1513DEIJ	610x1524x102,5	H13	27,6	1500	120	1	626x1540x134
HLA1513DEJJ	610x1830x102,5	H13	33,1	1800	120	1	626x1846x134
HLA1513DFBJ	762x305x102,5	H13	7,0	375	120	1	778x321x134
HLA1513DFEJ	762x610x102,5	H13	13,9	750	120	1	778x626x134
HLA1513DFFJ	762x762x102,5	H13	17,3	950	120	1	778x778x134
HLA1513DFGJ	762x915x102,5	H13	20,7	1125	120	1	778x931x134
HLA1513DFHJ	762x1220x102,5	H13	27,6	1500	120	1	778x1236x134
HLA1513DFIJ	762x1524x102,5	H13	34,5	1875	120	1	778x1540x134
HLA1513DFJJ	762x1830x102,5	H13	41,4	2250	120	1	778x1846x134
HLA1513DGBJ	915x305x102,5	H13	8,4	450	120	1	931x321x134
HLA1513DGGJ	915x915x102,5	H13	24,9	1350	120	1	931x931x134
HLA1513DGHJ	915x1220x102,5	H13	33,2	1800	120	1	931x1236x134
HLA1513DGJ	915x1524x102,5	H13	41,4	2250	120	1	931x1540x134
HLA1513DGJJ	915x1830x102,5	H13	49,7	2700	120	1	931x1846x134
HLA1514DBBJ	305x305x102,5	H14	2,8	150	140	1	321x321x134
HLA1514DCCJ	457x457x102,5	H14	6,2	335	140	1	473x473x134
HLA1514DBEJ	305x610x102,5	H14	5,5	300	140	1	321x626x134
HLA1514DCEJ	457x610x102,5	H14	8,3	450	140	1	473x626x134
HLA1514DCBJ	457x305x102,5	H14	4,2	225	140	1	473x321x134
HLA1514DEEJ	610x610x102,5	H14	11,1	600	140	1	626x626x134
HLA1514DEGJ	610x915x102,5	H14	16,6	900	140	1	626x931x134
HLA1514DEHJ	610x1220x102,5	H14	22,1	1200	140	1	626x1236x134
HLA1514DEIJ	610x1524x102,5	H14	27,6	1500	140	1	626x1540x134
HLA1514DEJJ	610x1830x102,5	H14	33,1	1800	140	1	626x1846x134
HLA1514DFBJ	762x305x102,5	H14	7,0	375	140	1	778x321x134
HLA1514DFEJ	762x610x102,5	H14	13,9	750	140	1	778x626x134
HLA1514DFFJ	762x762x102,5	H14	17,3	950	140	1	778x778x134
HLA1514DFGJ	762x915x102,5	H14	20,7	1125	140	1	778x931x134
HLA1514DFHJ	762x1220x102,5	H14	27,6	1500	140	1	778x1236x134
HLA1514DFIJ	762x1524x102,5	H14	34,5	1875	140	1	778x1540x134
HLA1514DFJJ	762x1830x102,5	H14	41,4	2250	140	1	778x1846x134
HLA1514DGBJ	915x305x102,5	H14	8,4	450	140	1	931x321x134
HLA1514DGGJ	915x915x102,5	H14	24,9	1350	140	1	931x931x134
HLA1514DGHJ	915x1220x102,5	H14	33,2	1800	140	1	931x1236x134
HLA1514DGJ	915x1524x102,5	H14	41,4	2250	140	1	931x1540x134
HLA1514DGJJ	915x1830x102,5	H14	49,7	2700	140	1	931x1846x134



## HEPA filters

### HEPA HLA-H series

E10 E11 H13 H14



## SPECIFICATIONS

**Application:** Cleanrooms, operating rooms

**Frame:** Extruded aluminium

**Spacers:** Hotmelt

**Bonding:** 2 component polyurethane

**Medium:** Glass fibre paper

**Gasket:** Gelseal

**Filter class according to EN1822:** E10, E11, H13 and H14

**Maximum final pressure drop:** 500Pa

**Maximum temperature:** 70°C

**Maximum relative humidity:** 90%

## ADVANTAGES

- Lightweight construction
- Every filter is delivered with a test certificate
- Excellent seal when mounting with gelseal frame
- HLA HEPA are fitted with 2 protection grids

The HEPA filters are checked for leak proofness at the end of the production proces. It is advised to validate the functioning of the airhandling unit after installation of the new HEPA filters, because of possible damages during

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (#)	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1610DBBH	305x305x80	E10	3,3	150	55	1	321x103x321
HLA1610DCCH	457x457x80	E10	7,4	335	55	1	473x103x473
HLA1610DBEH	305x610x80	E10	6,6	300	55	1	321x103x626
HLA1610DCEH	457x610x80	E10	9,9	450	55	1	473x626x111
HLA1610DCBH	457x305x80	E10	5,0	225	55	1	473x321x111
HLA1610DEEH	610x610x80	E10	13,2	600	55	1	626x103x626
HLA1610DEGH	610x915x80	E10	19,8	900	55	1	626x103x931
HLA1610DEHH	610x1220x80	E10	26,4	1200	55	1	620x91x1230
HLA1610DEIH	610x1524x80	E10	32,9	1500	55	1	626x1540x111
HLA1610DEJH	610x1830x80	E10	39,5	1800	55	1	626x1846x111
HLA1610DFBH	762x305x80	E10	8,4	375	55	1	778x321x111
HLA1610DFEH	762x610x80	E10	16,6	750	55	1	778x626x111
HLA1610DFFH	762x762x80	E10	20,7	950	55	1	778x778x111
HLA1610DFGH	762x915x80	E10	24,8	1125	55	1	778x931x111
HLA1610DFHH	762x1220x80	E10	33,0	1500	55	1	778x1236x111
HLA1610DFIH	762x1524x80	E10	41,2	1875	55	1	778x1540x111
HLA1610DFJH	762x1830x80	E10	49,4	2250	55	1	778x1846x111
HLA1610DGBH	915x305x80	E10	10,0	450	55	1	931x321x111
HLA1610DGGH	915x915x80	E10	29,8	1350	55	1	931x931x111
HLA1610DGHH	915x1220x80	E10	39,7	1800	55	1	931x1236x111
HLA1610DGIH	915x1524x80	E10	49,5	2250	55	1	931x1540x111
HLA1610DGJH	915x1830x80	E10	59,4	2700	55	1	931x1846x111
HLA1611DBBH	305x305x80	E11	3,3	150	60	1	321x103x321
HLA1611DCCH	457x457x80	E11	7,4	335	60	1	473x103x473
HLA1611DBEH	305x610x80	E11	6,6	300	60	1	321x103x626
HLA1611DCEH	457x610x80	E11	9,9	450	60	1	473x626x111
HLA1611DCBH	457x305x80	E11	5,0	225	60	1	473x321x111
HLA1611DEEH	610x610x80	E11	13,2	600	60	1	626x103x626
HLA1611DEGH	610x915x80	E11	19,8	900	60	1	626x103x931
HLA1611DEHH	610x1220x80	E11	26,4	1200	60	1	620x91x1230
HLA1611DEIH	610x1524x80	E11	32,9	1500	60	1	626x1540x111
HLA1611DEJH	610x1830x80	E11	39,5	1800	60	1	626x1846x111
HLA1611DFBH	762x305x80	E11	8,4	375	60	1	778x321x111
HLA1611DFEH	762x610x80	E11	16,6	750	60	1	778x626x111
HLA1611DFFH	762x762x80	E11	20,7	950	60	1	778x778x111
HLA1611DFGH	762x915x80	E11	24,8	1125	60	1	778x931x111
HLA1611DFHH	762x1220x80	E11	33,0	1500	60	1	778x1236x111
HLA1611DFIH	762x1524x80	E11	41,2	1875	60	1	778x1540x111
HLA1611DFJH	762x1830x80	E11	49,4	2250	60	1	778x1846x111
HLA1611DGBH	915x305x80	E11	10,0	450	60	1	931x321x111
HLA1611DGGH	915x915x80	E11	29,8	1350	60	1	931x931x111
HLA1611DGHH	915x1220x80	E11	39,7	1800	60	1	931x1236x111
HLA1611DGIH	915x1524x80	E11	49,5	2250	60	1	931x1540x111
HLA1611DGJH	915x1830x80	E11	59,4	2700	60	1	931x1846x111
HLA1613DBBH	305x305x80	H13	3,3	150	90	1	321x103x321
HLA1613DCCH	457x457x80	H13	7,4	335	90	1	473x103x473
HLA1613DBEH	305x610x80	H13	6,6	300	90	1	321x103x626
HLA1613DCEH	457x610x80	H13	9,9	450	90	1	473x626x111
HLA1613DCBH	457x305x80	H13	5,0	225	90	1	473x321x111
HLA1613DEEH	610x610x80	H13	13,2	600	90	1	626x103x626
HLA1613DEGH	610x915x80	H13	19,8	900	90	1	626x103x931
HLA1613DEHH	610x1220x80	H13	26,4	1200	90	1	620x91x1230

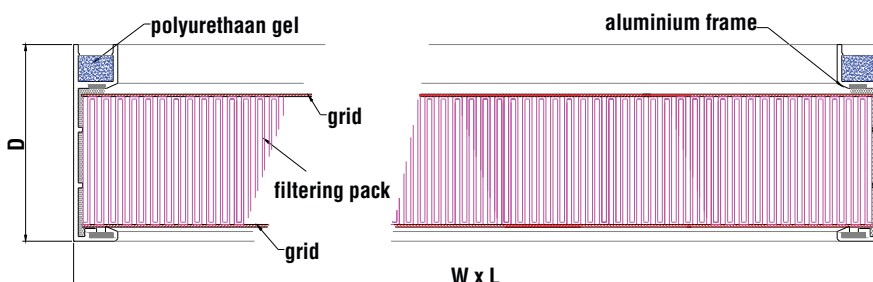
continued >>

## HEPA filters

### HEPA HLA-H series (continued)



Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
HLA1613DEIH	610x1524x80	H13	32,9	1500	90	1	626x1540x111
HLA1613DEJH	610x1830x80	H13	39,5	1800	90	1	626x1846x111
HLA1613DFBH	762x305x80	H13	8,4	375	90	1	778x321x111
HLA1613DFEH	762x610x80	H13	16,6	750	90	1	778x626x111
HLA1613DFFH	762x762x80	H13	20,7	950	90	1	778x778x111
HLA1613DFGH	762x915x80	H13	24,8	1125	90	1	778x931x111
HLA1613DFHH	762x1220x80	H13	33,0	1500	90	1	778x1236x111
HLA1613DFIH	762x1524x80	H13	41,2	1875	90	1	778x1540x111
HLA1613DFJH	762x1830x80	H13	49,4	2250	90	1	778x1846x111
HLA1613DGBH	915x305x80	H13	10,0	450	90	1	931x321x111
HLA1613DGGH	915x915x80	H13	29,8	1350	90	1	931x931x111
HLA1613DGHH	915x1220x80	H13	39,7	1800	90	1	931x1236x111
HLA1613DGIH	915x1524x80	H13	49,5	2250	90	1	931x1540x111
HLA1613DGJH	915x1830x80	H13	59,4	2700	90	1	931x1846x111
HLA1614DBBH	305x305x80	H14	3,3	150	100	1	321x103x321
HLA1614DCCH	457x457x80	H14	7,4	335	100	1	473x103x473
HLA1614DBEH	305x610x80	H14	6,6	300	100	1	321x103x626
HLA1614DCEH	457x610x80	H14	9,9	450	100	1	473x626x111
HLA1614DCBH	457x305x80	H14	5,0	225	100	1	473x321x111
HLA1614DEEH	610x610x80	H14	13,2	600	100	1	626x103x626
HLA1614DEGH	610x915x80	H14	19,8	900	100	1	626x103x931
HLA1614DEHH	610x1220x80	H14	26,4	1200	100	1	620x91x1230
HLA1614DEIH	610x1524x80	H14	32,9	1500	100	1	626x1540x111
HLA1614DEJH	610x1830x80	H14	39,5	1800	100	1	626x1846x111
HLA1614DFBH	762x305x80	H14	8,4	375	100	1	778x321x111
HLA1614DFEH	762x610x80	H14	16,6	750	100	1	778x626x111
HLA1614DFFH	762x762x80	H14	20,7	950	100	1	778x778x111
HLA1614DFGH	762x915x80	H14	24,8	1125	100	1	778x931x111
HLA1614DFHH	762x1220x80	H14	33,0	1500	100	1	778x1236x111
HLA1614DFIH	762x1524x80	H14	41,2	1875	100	1	778x1540x111
HLA1614DFJH	762x1830x80	H14	49,4	2250	100	1	778x1846x111
HLA1614DGBH	915x305x80	H14	10,0	450	100	1	931x321x111
HLA1614DGGH	915x915x80	H14	29,8	1350	100	1	931x931x111
HLA1614DGHH	915x1220x80	H14	39,7	1800	100	1	931x1236x111
HLA1614DGIH	915x1524x80	H14	49,5	2250	100	1	931x1540x111
HLA1614DGJH	915x1830x80	H14	59,4	2700	100	1	931x1846x111



## Hepa Hood Filter

E11 H13 H14



### SPECIFICATIONS

**Application:** Cleanrooms, operating rooms

**Frame:** Extruded aluminium

**Spacers:** Hotmelt

**Bonding:** 2 component polyurethane

**Medium:** Glass fibre paper

**Gasket:** Continuous poured gasket

**Filter class according to EN1822:** E11, H13 and H14

**Maximum final pressure drop:** 500Pa

**Maximum temperature:** 70°C

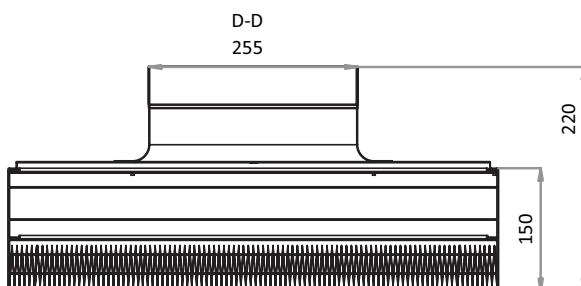
**Maximum relative humidity:** 90%

### Advantages

- Lightweight construction
- Filters with the classification H13 & H14 are delivered with a test certificate

The HEPA filters are checked for leak proofness at the end of the production process. It is advised to validate the functioning of the airhandling unit after installation of the new HEPA filters, because of possible damages during transport or installation.

Type	Dimensions WxHxD (mm)	Filter class	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	Dimensions box (mm)
HLH1111SBEL	305x610x150	E11	5,5	300	70	321x626x183
HLH1111SEEL	610x610x150	E11	11,1	600	70	626x626x183
HLH1111SEGL	610x915x150	E11	16,6	900	70	626x931x183
HLH1111SEHL	610x1220x150	E11	22,1	1200	70	626x1236x183
HLH1111S300600L	300x600x150	E11	5,4	300	70	316x616x183
HLH1111S600600L	600x600x150	E11	10,7	600	70	616x616x183
HLH1111S905600L	905x600x150	E11	16,2	900	70	921x616x183
HLH1111S1210600L	1210x600x150	E11	22,1	1200	70	1226x616x183
HLH1111S1195595L	1195x595x150	E11	21,3	1100	70	1211x616x183
HLH1113SBEL	305x610x150	H13	5,5	300	110	321x626x183
HLH1113SEEL	610x610x150	H13	11,1	600	110	626x626x183
HLH1113SEGL	610x915x150	H13	16,7	900	110	626x931x183
HLH1113SEHL	610x1220x150	H13	22,3	1200	110	626x1236x183
HLH1113S300600L	300x600x150	H13	5,3	300	110	316x616x183
HLH1113S600600L	600x600x150	H13	10,7	600	110	616x616x183
HLH1113S905600L	905x600x150	H13	16,2	900	110	921x616x183
HLH1113S1210600L	1210x600x150	H13	21,7	1200	110	1226x616x183
HLH1113S1195595L	1195x595x150	H13	21,3	1100	110	1211x616x183
HLH1114SBEL	305x610x150	H14	5,5	300	120	321x626x183
HLH1114SEEL	610x610x150	H14	11,1	600	120	626x626x183
HLH1114SEGL	610x915x150	H14	16,7	900	120	626x931x183
HLH1114SEHL	610x1220x150	H14	22,3	1200	120	626x1236x183
HLH1114S300600L	300x600x150	H14	5,3	300	120	316x616x183
HLH1114S600600L	600x600x150	H14	10,7	600	120	616x616x183
HLH1114S905600L	905x600x150	H14	16,2	900	120	921x616x183
HLH1114S1210600L	1210x600x150	H14	21,7	1200	120	1226x616x183
HLH1114S1195595L	1195x595x150	H14	21,3	1100	120	1211x616x183



## HEPA filters

### Hepa Hood Filter



#### SPECIFICATIONS

**Application:** Cleanrooms, operating rooms

**Frame:** Stainless, powder coated steel

**Gasket:** Optionally sprayed

**Connection:** Round 160, 250 or 315 (mm)

**Location connection:** Side or top

**Diffuser:** Perforated, swirl, 4 directions

#### Advantages

- Sustainable construction through multiple use assembly
- Easy installation via bottom
- Possibilities for assembly
- Different filters

Type	Dimensions Hood WxHxD (mm)	Dimensions Grid including flange LxW (mm)	Dimensions Filter HLA-series LxW (mm)	Hight Filter (mm)	Airflow (m <sup>3</sup> /h)	Position of connection	Connection Ø (mm)
HL-HD/EE-S	650x650x565	722x722	610x610	68-124	600	Side	250
HL-HD/EG-S	650x955x565	722x1027	610x915	68-124	900	Side	315
HL-HD/EH-S	650x1260x565	722x1332	610x1220	68-124	1200	Side	315
HL-HD/EE-S/SS	650x650x565	722x722	610x610	68-124	600	Side	250
HL-HD/EG-S/SS	650x955x565	722x1027	610x915	68-124	900	Side	315
HL-HD/EH-S/SS	650x1260x565	722x1332	610x1220	68-124	1200	Side	315
HL-HD/EE-T	650x650x300	722x722	610x610	68-124	600	Top	250
HL-HD/EG-T	650x955x300	722x1027	610x915	68-124	900	Top	315
HL-HD/EH-T	650x1260x300	722x1332	610x1220	68-124	1200	Top	315
HL-HD/EE-T/SS	650x650x300	722x722	610x610	68-124	600	Top	250
HL-HD/EG-T/SS	650x955x300	722x1027	610x915	68-124	900	Top	315
HL-HD/EH-T/SS	650x1260x300	722x1332	610x1220	68-124	1200	Top	315
HL-HD/BE-S	345x650x565	417x722	305x610	68-124	300	Side	160
HL-HD/BB-S	345x345x565	417x417	305x305	68-124	150	Side	160
HL-HD/BE-S/SS	345x650x565	417x722	305x610	68-124	300	Side	160
HL-HD/BB-S/SS	345x345x565	417x417	305x305	68-124	150	Side	160
HL-HD/BE-T	345x650x300	417x722	305x610	68-124	300	Top	160
HL-HD/BB-T	345x345x300	417x417	305x305	68-124	150	Top	160
HL-HD/BE-T/SS	345x650x300	417x722	305x610	68-124	300	Top	160
HL-HD/BB-T/SS	345x345x300	417x417	305x305	68-124	150	Top	160

\*Optional

Different dimensions are retrievable

Test Port space side

## ACTIVATED CARBON FILTERS

Carbon filters are used for the filtration of gaseous particles. The use of either loose charcoal or media impregnated with activated carbon enables high efficiency for gases. Various types of carbon filter are used, depending on the application, contamination and concentration in question. The filters can be largely split into three fields or application:

- Organic gases
- Acidic gases
- Alkaline gases

Although various types of carbon filter are used, depending on the field or application, it should be noted that the carbon does have to be impregnated to guarantee suitable efficiency for both acidic and alkaline gases. Furthermore, the optimum product variant has to be selected on the basis of the concentration in question. In the case of high concentrations of gas, for instance, a cylinder containing loose carbon pellets is used, as it has a higher adsorption capacity than a pleated filter element.

Selecting the appropriate carbon filter nevertheless remains a complicated process. However, our sales staff are pleased to assist you in doing so. Furthermore, we can test existing filters to establish their remaining adsorption capacity and service life, then advise you when they will have to be replaced.

### Construction

Activated carbon filters are available in the form of elements, which can be filled with loose activated carbon pellets. These filters are usually refillable and are further characterised by their combination of high adsorption capacity and low flow rate. The flow rate of these filters is particularly high, while their adsorption capacity is low. In the case of extremely high concentrations of gases, it is also advisable to use stainless steel.

### Applications

Activated carbon filters are widely used in airports, record offices, museums and the semiconductor industry. The filters can be installed in either standard holding frames or frames specially designed for the activated carbon cylinders. It is important that separate filters are fitted in front of and behind the carbon filters. A pre-filter is required to prevent the activated carbon filter from becoming clogged with dust particles. An after-filter is also required to avoid the possibility of activated carbon particles entering the airflow.

### Installation

- Ensure that no leakage can occur (new gaskets can be supplied together with filters)
- Ensure that the frame and the cabinet in which the new filter is to be fitted are cleaned first
- Activated carbon pellets may be spilled either during installation or throughout the life span of the filter; ensure that these are removed before the system is turned on
- Maintain records of the filters installed; note the date, type and initial resistance

## Active carbon filters

### Carbon cylinder



### SPECIFICATIONS

**Application:** Airports, industry, catering

**Frame:** Galvanized steel or stainless steel (RVS)

**Bonding:** -

**Activated carbon:** M-carb generic activated carbon. S-carb/R-carb specific impregnated carbon used for museums and archives

**Gasket:** Neopreen

**Maximum final pressure drop:** -

**Maximum temperature:** 40°C

**Maximum relative humidity:** 70%

**Comments:** Possibility to apply impregnated carbon to filter specific gases

### ADVANTAGES

- Refillable
- High dust holding capacity
- Straightforward assembly

This activated carbon filter is designed to adsorb small amounts of gaseous impurities (<100 ppm vol.) At higher concentrations, a risk of spontaneous creation. For instructions on using these filters, refer to enclosed installation and maintenance instructions.

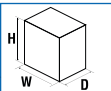
Type	Dimensions WxHxD (mm)	Carbon type	Volume (L)	Weight (kg)	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
AC-2-12	length 250 mm thickness 25mm galvanized steel	M2-3	3	1,7	85	82	4	300x300x275
AC-2-26	length 450mm thickness 25mm galvanized steel	M2-3	5	2,6	150	80	4	300x300x475
AC-2-26/SS	length 450mm thickness 25mm stainless steel	M2-3	5	2,6	150	80	4	300x300x475
AC-2-60	length 600mm thickness 25mm galvanized steel	M2-3	6	3,5	205	75	4	300x300x625

#### Gasket

Type	Used for cylinders
AC-P-25	AC-2-12 & AC-2-26

## Active carbon filters

### AC12



### SPECIFICATIONS

**Application:** Museums, archives, industry

**Frame:** Galvanized steel

**Bonding:** -

**Activated carbon:** M-carb generic activated carbon. S-carb/R-carb specific impregnated carbon used for museums and archives

**Gasket:** Extruded rubber

**Maximum final pressure drop:** -

**Maximum temperature:** 40°C

**Maximum relative humidity:** 70%

### ADVANTAGES

- Compact design
- Refillable
- Low pressure drop
- High dust holding capacity

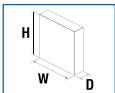
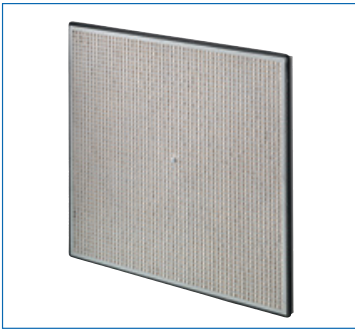
This activated carbon filter is designed to adsorb small amounts of gaseous impurities (<100 ppm vol.) At higher concentrations, a risk of spontaneous creation. For instructions on using these filters, refer to enclosed installation and maintenance instructions.

Type	Dimensions WxHxD (mm)	Carbon type	Volume (L)	Weight (kg)	Airflow (m <sup>3</sup> /h)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)
AC12-4/M-CARB	296x296x292	M-CARB	6	4,5	425	70	1	311x313x311
AC12-4/R-CARB	296x296x292	R-CARB	6	4,5	425	70	1	311x313x311
AC12-4/S-CARB	296x296x292	S-CARB	6	4,5	425	70	1	311x313x311



## Active carbon filters

### Activated carbon panel



### SPECIFICATIONS

**Application:** Museums, archives, industry

**Frame:** Galvanized steel

**Bonding:** 2 component polyurethane

**Activated carbon:** M-carb generic activated carbon. S-carb/R-carb specific impregnated carbon used for museums and archives

**Gasket:** Neopreen

**Maximum final pressure drop:** -

**Maximum temperature:** 40°C

**Maximum relative humidity:** 70%

### ADVANTAGES

- Robust design
- High dust holding capacity

This activated carbon filter is designed to adsorb small amounts of gaseous impurities (<100 ppm vol.) At higher concentrations, a risk of spontaneous creation.

For instructions on using these filters, refer to enclosed installation and maintenance instructions.

Type	Dimensions WxHxD (mm)	Carbon type	Volume (L)	Weight (kg)	Airflow (m <sup>3</sup> /h)	# Filters/box	Dimensions box (mm)
AK/605x605x32-MC	605x605x32	M-CARB	12	5	500	2	616x616x89
AK/605x605x32-RC	605x605x32	R-CARB	12	5	500	2	616x616x89
AK/605x605x32-SC	605x605x32	S-CARB	12	5	500	2	616x616x89

# Compact filters

## HPQ-AK

ISO Coarse ePM10 M6

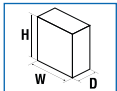


### SPECIFICATIONS

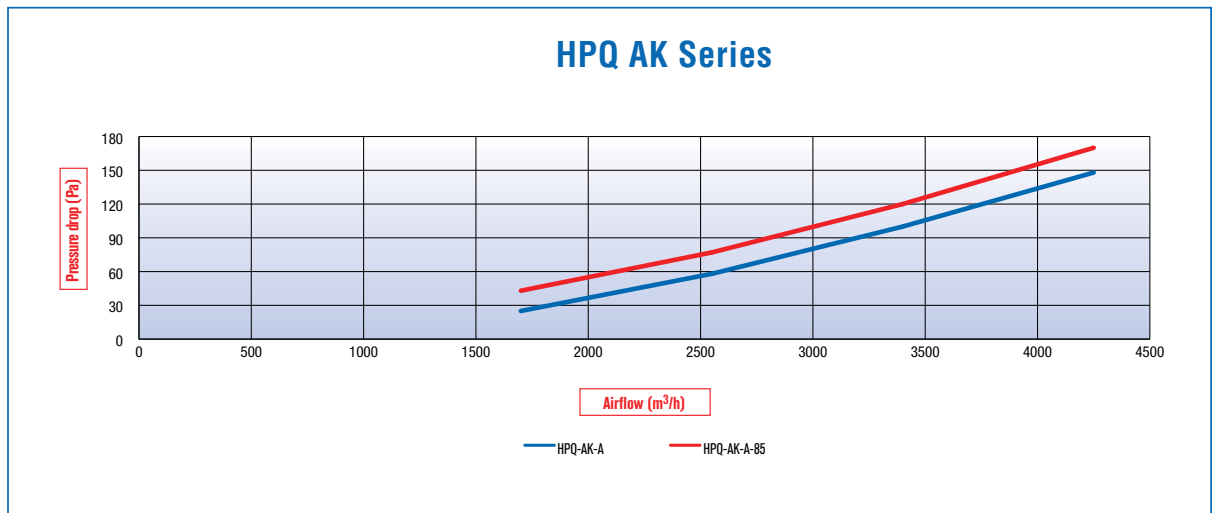
**Application:** HVAC, Industry  
**Frame:** Plastic  
**Spacers:** Hotmelt  
**Bonding:** 2 component polyurethane  
**Medium:** Synthetic medium combined with activated carbon  
**Gasket:** Optional, Continuous poured gasket  
**Filter class according to ISO 16890:** ISO Coarse, ePM10  
**Maximum final pressure drop:** 350Pa  
**Maximum temperature:** 65°C  
**Maximum relative humidity:** 90%  
**Comments:** It is preferred to use a prefilter with these products


### ADVANTAGES

- Small construction space
- Low pressure drop
- Combination filter



Type	Dimensions WxHxD (mm)	Filter class ISO 16890	Filter class EN779:2012	Filter surface (m <sup>2</sup> )	Airflow (m <sup>3</sup> /Hr)	Pressure drop (Pa)	# Filters/box	Dimensions box (mm)	Energy label*
HPQ-AK-A	592x592x292	ISO Coarse 80%	-	8,3	3400	100	1	605x300x605	-
HPQ-AK-B	490x592x292	ISO Coarse 80%	-	6,9	2800	100	1	605x300x505	-
HPQ-AK-C	288x592x292	ISO Coarse 80%	-	4,0	1700	100	2	605x300x605	-
HPQ-AK-A-85	592x592x292	ePM10 60%	M6	6,0	3400	120	1	605x300x605	E
HPQ-AK-B-85	490x592x292	ePM10 60%	M6	4,9	2800	120	1	605x300x505	E
HPQ-AK-C-85	288x592x292	ePM10 60%	M6	2,9	1700	120	2	605x300x605	E





## Filter media

### Qualities

Our filter media is made of high quality fibres, which are progressively built up to create a media with a high particle interception capacity. In addition to synthetic media, we have an extensive range of glass fibre media for specific applications, such as spray-painting booths. The filter medias are available both in loose sheets and on complete rolls, which can be conveniently cut to size. Depending on the particular application in question, the most appropriate media can be chosen from filter classes G2 to M5 with various particle interception capacities.

### Advantages of our medium

- High particle interception capacities
- Easy installation
- Readily cut to size

### Construction

Our filter media are supplied either on a roll or in pre-cut sheets

### Application

Pre-filters for air treatment systems. Pre-filters for spray-painting booths.

### Installation

- Ensure that the filter medium is fitted correctly (fine side – dirty air side)
- Ensure that the medium is installed flat
- Filter medium should be properly secured to prevent it from becoming dislodged or possibly leaking during its service life
- Filter installation records; note the date, type and initial resistance.



### SPECIFICATIONS

**Application:** Prefilters in HVAC and industry

**Material:** Synthetic/Polyester

**Filter class according to ISO 16890:** ISO Coarse

**Maximum final pressure drop:** 250Pa

**Maximum temperature:** 70°C

**Maximum relative humidity:** 90%

### ADVANTAGES

- High dust holding capacity
- Easily custom fitted

Type BxH (m)	Dimensions ISO 16890	Filter class EN779:2012	Filter class	Color	Airflow (m3/m2)	Pressure drop (Pa)
T15/150-20x2N	20x2	ISO Coarse 50%	G2	white	5400	30
T15/500-20x2N	20x2	ISO Coarse 70%	G4	white	5400	64
PS T290-20x2N	20x2	ISO Coarse 50%	G3	white	5400	39
F360-20x2*	20x2	ISO Coarse 80%	M5	white	900	15
F560G-20x2*	20x2	ISO Coarse 80%	M5	white	900	24

\*Air velocity 0,25m/s

## Filter media

### F/Glass Media

ISO  
Coarse

G3



### SPECIFICATIONS

**Application:** Spray booth, Prefilters gasturbines

**Materiaal:** Glass fibre

**Filter class according to ISO 16890:** ISO Coarse

**Maximum final pressure drop:** 250Pa

**Maximum temperature:** 80°C

**Maximum relative humidity:** 90%

### ADVANTAGES

- High dust holding capacity

Type BxH (m)	Dimensions	Filter class ISO 16890	Filter class EN779:2012	Color	Airflow (m3/m2)	Pressure drop (Pa)	Weight (g/m2)	Depth (mm)
PSG 760	760 x 51	-	-	Green/White	0,7	4-12	200	60
PSG 1500	1500 x 51	-	-	Green/White	0,7	4-12	200	60
PSG 2000	20 x 2	-	-	Green/White	0,7	4-12	200	60

Ceiling Media 560G

F5



**SPECIFICATIONS**

Technical Data  
 Filter class M5 acc. TO EN779:2012  
 Fire resistance class: F1 acc. To DIN 53438  
 Temperature resistance: max. 100 C  
 Humidity resistance: up to 100%

**ADVANTAGES**

- High dustholding capacity
- Easily custom fitted

Product	FD560G
Air flow (m <sup>3</sup> /h/m <sup>2</sup> )	900
Media velocity (m/s)	0.25
Initial pressure drop (Pa)	25
Final pressure drop (Pa)	450
Average Efficiency at 0.4 µm (%)	40-60
Filter classification	M5
Maximum temperature (°C)	70
Maximum rel. Humidity (%)	90





## HOLDING FRAMES

### Qualities

Holding frames make the correct installation of a filter a simple task. The standard clips provided facilitate the swift and leak-tight installation of filters in frames.

All bag-filter holding frames comprise an endless spray-on gasket, which renders leakage literally impossible, provided the frame is installed correctly. The special pre-drilled holes make it a simple task to fit the frames.

In the event that a large filter wall is to be constructed, it is advisable to fit additional reinforcing.

In addition to the standard 2" model, there is a 3" model available, which facilitates the installation of a 2" pre-filter and a 1" bag filter in a single frame.

### Advantages

- Easy fitting using clips
- Endless gasket
- Option of fitting several filters in a single frame
- Robust frame
- Swift fitting of frames, thanks to pre-drilled holes

### Construction

The holding frames are made of stainless steel 304 or 316. On request, an epoxy coating can be applied to frames as well.

High quality steel is used in manufacturing the frames to ensure ample rigidity.

Furthermore, the construction design pays consideration to optimum frame stability and ease of installation.

### Application

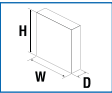
These holding frames are widely used in air treatment cabinets and air inlet systems for equipment such as gas turbines. The frames have standard dimensions and are a good replacement for the used holding frames removed during the renovation of air treatment cabinets.

### Installation

- In the event that several frames are to be fitted next to one another, it is advisable to also fit additional reinforcing
- Once the frames are fitted, sealant should be applied around the edges to prevent any leakage
- The frames should be correctly installed; the clips should be fitted on the dirty air side.

## Holding Frames

### HF Bag Filters



### SPECIFICATIONS

**Application:** HVAC  
**Frame:** Stainless steel (RVS)  
**Gasket:** Continuous poured gasket  
**Maximum temperature:** N/A

### ADVANTAGES

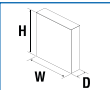
- Very quick and straightforward assembly
- Continuous poured gasket

Type	Dimensions frame		Dimensions filter		Material
	WxHxD (mm)				
Hold.Fr.A/RVS-3	610x610x97	592x592x25	592x592x48	Stainless steel	
Hold.Fr.B/RVS-3	508x610x97	490x592x25	492x592x48	Stainless steel	
Hold.Fr.C/RVS-3	305x610x97	288x592x25	288x592x48	Stainless steel	



## Holding Frames

### HF HEPA



### SPECIFICATIONS

**Application:** Cleanrooms, hospitals

**Frame:** Stainless steel (RVS)

**Gasket:** -

**Maximum temperature:** N/A

**Comments:** Assembly tools for filters with a depth of 292 mm are included standard. Assembly tools for filters with a depth of 60-150 mm can be delivered on request

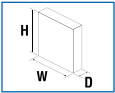
### ADVANTAGES

- Straightforward assembly
- Good seal between filter and frame by mounting accessories

Type	Dimensions frame WxHxD (mm)	Montage Dimensions filter	Material	Frames / box
HP.HOLD.FR.EE/SS	625x625x125	610x610x292	Stainlesssteel	
HP.HOLD.FR.BE/SS	320x625x125	305x610x292	Stainlesssteel	
HP.HOLD.FR.DD/SS	607x607x125	592x592x292	Stainlesssteel	
P.HOLD.FR.AD/SS	303x607x125	288x592x292	Stainlesssteel2	

## Holding Frames

### HF Activated Carbon



### SPECIFICATIONS

**Application:** Airports, industry  
**Frame:** Galvanized steel or stainless steel (RVS)  
**Gasket:** -  
**Maximum temperature:** N/A  
**Comments:** When 3 or more frames are mounted together, the frames need to be reinforced.

### ADVANTAGES

- Straightforward assembly

#### Holding frame

Type	Dimensions	Material	No: Holes	Frames/box
AC.H.FR.A	610x610x70	Galvanized steel	16	4
AC.H.FR.B	508x610x70	Galvanized steel	12	4
AC.H.FR.C	305x610x70	Galvanized steel	8	8
AC.H.FR.CC	305x305x70	Galvanized steel	4	16

Type	Dimensions	Material	No: Holes	Frames/box
AC.H.FR.A.SS	610x610x70	Stainless steel	16	4
AC.H.FR.B.SS	508x610x70	Stainless steel	12	4
AC.H.FR.C.SS	305x610x70	Stainless steel	8	8
AC.H.FR.CC.SS	305x305x70	Stainless steel	4	16

#### Gasket

Type	Used for cylinders
AC-P-25	AC-2-12 & AC-2-26

# Evaporative Cooler Pads



### Evap-Pads



#### EQUIPMENT

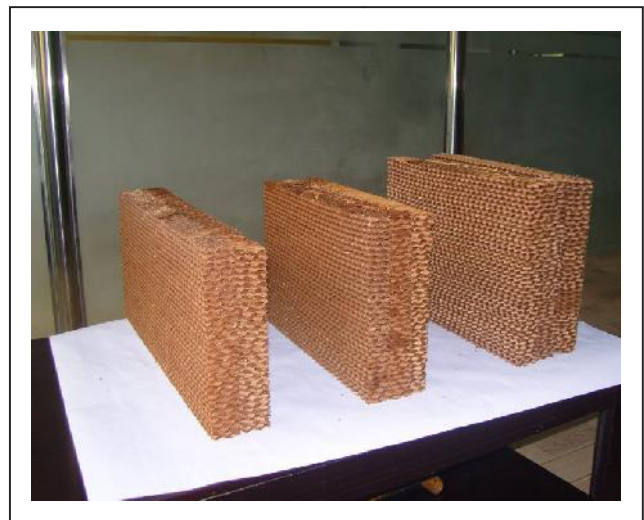
- High evaporation efficiency
- Superb wetting properties
- Low pressure drop when wet, leading to lower operating costs
- No water carry-over
- Low scaling
- Self cleaning
- Strong and self supporting
- Long life time
- Low running costs
- Quick and easy to install
- Environmentally friendly
- Consistent high quality

This unique design yields a cooling pad with a high evaporation efficiency while still operating with a very low pressure drop. In addition scaling is kept to a minimum and no water carry-over occurs due to the fact that the water is directed to the air inlet side of the pad. This is where most of the evaporation takes place.

The impregnation procedure for the cellulose paper ensures a strong self supporting product, with high absorbance, which is protected against decomposition and rotting and therefore increasing longevity. The distribution pad constitutes a vital part of a complete system and should always be placed on top of the cooling pad it ensures a uniform supply of the water to the cooling pad and minimises the risk of dry spots.

#### **The evaporative cooling technology**

Water is circulated via a pump station and supplied to the top of the cooling. A distribution pad on the top of the cooling pad ensures an even water distribution. The water flows down the corrugated surface of the EVAP-Pad. Part of the water is evaporated by the warm and dry air that passes through the pad. The rest of the water assists in washing the pad, and is drained back to the pump. The heat that is needed for the evaporation is taken from the air itself. The air that leaves the pad is therefore cooled and humidified simultaneously without any external energy supply for the evaporation process.



This is nature's own cooling process.