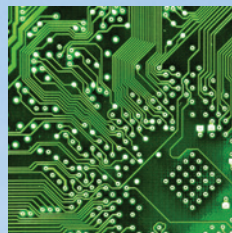




AIR **FILTER** TECHNOLOGY



ADVANCED FILTRATION FOR A BETTER FUTURE!

About us

ULPATEK is a leading manufacturer of Air filter products in Turkey. It was established by a 40 years experienced team in the fields of turn-key clean room and ventilation systems for textile, health, food and beverage and pharmaceuticals sectors.

ULPATEK aims to provide all kind of filtration demands of air conditioning systems from simple AHU's to high quality cleanrooms. Our vision is to protect our reliable corporate brand image, supply with high-quality and competitive products and have strong market bases abroad.

ULPATEK operates with more than 110 employee in Arnavutköy-İstanbul on 12.650 square meter area. Coarse, Medium, Fine, EPA, HEPA and ULPA filters are produced in cleanroom environment according to European standards EN779 and EN1822 by advanced machines and equipment. ULPATEK has ISO 9001 certificate from TÜV NORD of Germany to ensure quality operations since the day production started. Besides, ULPATEK received EN779:2012 "Eurovent" certificate on March 2014. ULPATEK is highly preferred by hospitals, pharmaceuticals and food and beverage producers.

We achieved this position by implementing the main management principles:

- Reliability
- Technical expertise and know-how
- Flexibility in design
- Energy-efficient products
- Short lead time for delivery

It has always given high priority to Research and Development activities which aims at improving the quality of its products and services based on the international standards. To reach this aim "Research & Development" (R&D) Department is in service to satisfy customer demands. ULPATEK prepares national R&D project proposals to improve its production facility.

ULPATEK exports more than 60 countries and increases this capacity incrementally. As recent export destinations, we can name Poland, Greece, Germany, Italy, France, Spain, the United Kingdom, the Netherlands, the Russian Federation, Egypt, Tunisia, Turkmenistan, Azerbaijan, Jordan. We have a dedicated export department in service for all countries and sectors.

You would visit our web site in order to learn more about us and our products at <http://www.ulpatek.com/en/>.



Coarse, Medium and Fine Filters

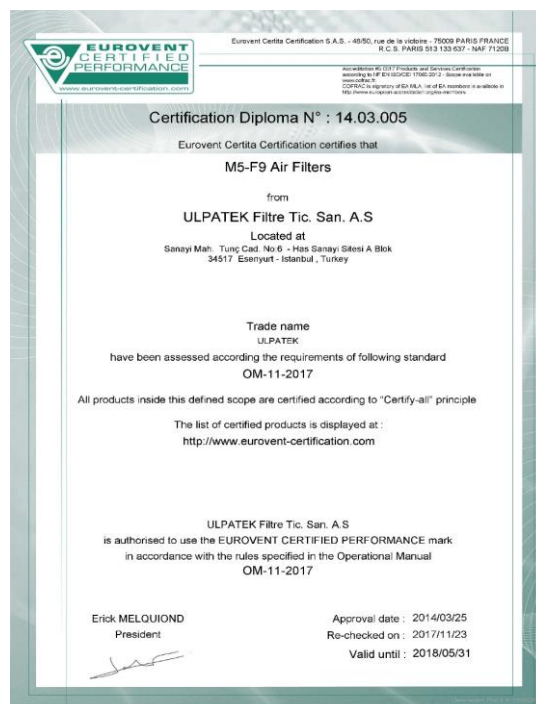
Classification Standard EN779:2012

The EN 779:2002 classification system (comprising groups F and G filters) has been changed to three groups (F-,M- and G-filters).

Filters found to have an average efficiency value of less than 40 % of 0,4 µm particles will be allocated to group G and the efficiency reported as "< 40 %". The classification of G filters (G1 - G4) is based on their average arrestance with the loading dust.

Filters found to have an average efficiency value from 40 % to less than 80 % of 0,4 µm particles will be allocated to group M (M5, M6) and the classification is based on their average efficiency (0,4 µm). The filter classes F5 and F6 have changed to M5 and M6, but with same requirements, as in the old classification system.

Filters found to have an average efficiency of 80 % or more of 0,4 µm particles will be allocated to group F (F7-F9) and the classification is based on their average efficiency (0,4 µm) as in the old system and the minimum efficiency during the test.



EN779:2012 Classification

Filter Group	Class	Final pressure drop (Pa)	Average Arrestance (A_m) of synthetic dust (%)	Average Efficiency (E_m) of 0,4 µm particles (%)	Minimum Efficiency of 0,4 µm particles (%)
Coarse	G1	250	$50 \leq A_m < 65$	—	-
	G2	250	$65 \leq A_m < 80$	—	-
	G3	250	$80 \leq A_m < 90$	—	-
	G4	250	$90 \leq A_m$	—	-
Medium	M5	450	—	$40 \leq E_m < 60$	-
	M6	450	—	$60 \leq E_m < 80$	-
Fine	F7	450	—	$80 \leq E_m < 90$	35
	F8	450	—	$90 \leq E_m < 95$	55
	F9	450	—	$95 \leq E_m$	70

European Association of Air Handling and Refrigerating Equipment Manufacturers, Eurovent's certification tells our clients that Ulpatek fine filters are tested by independent research laboratory and that Ulpatek's published product information must be accurate. Ulpatek has also ISO 9001 to ensure quality operations since the day production started.



Initial Efficiency vs. Particle Size

Filter Group	Class	0,1 µm	0,3 µm	0,5 µm	1,0 µm	3,0 µm	5,0 µm	10,0 µm
Coarse	G1	-	-	-	-	0 - 5	5 - 15	40 - 50
	G2	-	-	-	0 - 5	5 - 15	15 - 35	50 - 70
	G3	-	-	0 - 5	5 - 15	15 - 35	35 - 70	70 - 85
	G4	-	0 - 5	5 - 15	15 - 35	30 - 55	60 - 90	85 - 98
Medium	M5	0 - 10	5 - 15	15 - 30	30 - 50	70 - 90	90 - 99	>98
	M6	5 - 15	10 - 25	20 - 40	50 - 65	85 - 95	95 - 99	>99
Fine	F7	25 - 35	45 - 60	60 - 75	85 - 95	>98	>99	>99
	F8	35 - 45	65 - 75	80 - 90	95 - 98	>99	>99	>99
	F9	45 - 60	75 - 85	90 - 95	>99	>99	>99	>99



ADVANCED FILTRATION FOR A BETTER FUTURE!

ROLL FILTER

Specifications

- Easily processed
- Good uniformity and dimensional stability
- Environmental friendly
- Thermobonded
- Efficient
- Self-extinguishing
- Class F1/K1 according to DIN 53438
- Economical
- Superior dust holding capacity
- Progressive structure



Filter Class; G3 - G4

Media; Synthetic Fibre

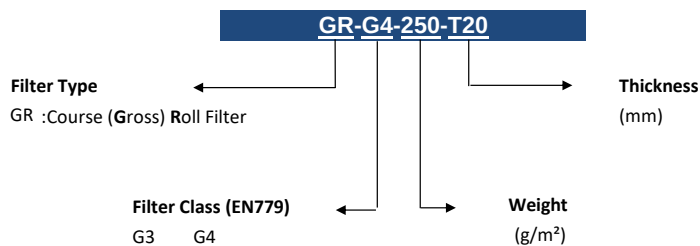
Max. Operating Temperature; 75°C

Final Pressure Drop; 250 Pa

Application;

Fan coils, ventilation systems, air handling units and painting booths.
Prefiltration of fine dust for fine and HEPA filters.

ULPATEK ROLL FILTERS		GR-G3	GR-G4
Filter Class according to EN 779		G3	G4
Nominal Face Velocity	m/s	1,5	1,5
Nominal Air Flow	m ³ /h.m ²	5400	5400
Initial Pressure Drop at Nominal Air Flow	Pa	40	58
Recommended Final Pressure Drop	Pa	250	250
Dust Holding Capacity	g	137	148
Average Arrestance (Am)	%	82,5	92
Thickness	mm	15	20
Weight	g/m ²	150	250
Roll Dimensions (W x L)	m	2x20	
Temperature Resistance	°C	up to +100	
Maximum Relative Humidity	%	100	
Filter Media		Synthetic fibre	



GR-G3-150-T15		
Filter Model	Roll Filter	GR
Filter Class	G3 (EN779)	G3
Wight (g/m ²)	150	150
Thicness	15mm	T15

POLYURETHANE FILTER

Specifications

- Open cells polyurethane filter media
- Small transport volume
- Grid at bothsides
- Various frame sizes with any dimensions
- Easy to handle and install
- Washable
- Various frame depths with any dimensions
- Low pressure drop



Filter Class; G2

Media; Polyurethane

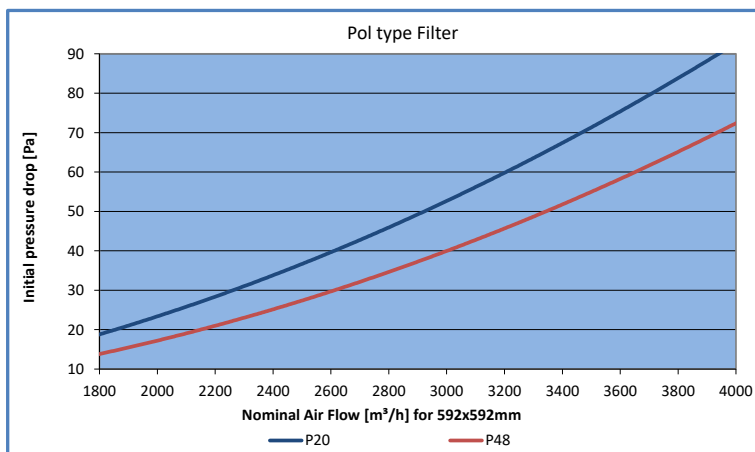
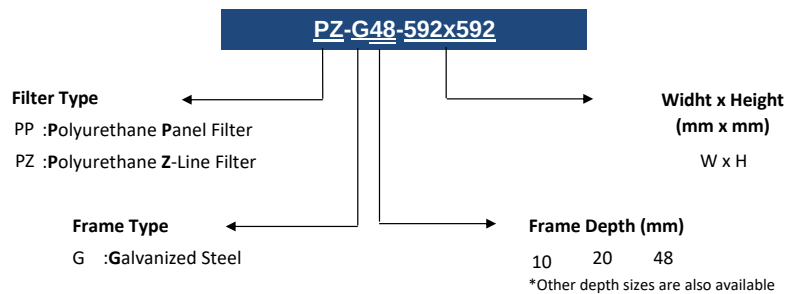
Frame type; Galvanized Steel

Standard depth; 20 - 48mm

Max. Operating Temperature; 75°C

Application; Prefilter for HVAC

Filter Model	Media Material	Dimensions WxHxD (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
PP-G20-592x592	Polyurethane	592x592x20	3200	60
PP-G20-490x592	Polyurethane	490x592x20	2650	60
PP-G20-287x592	Polyurethane	287x592x20	1600	60
PP-G20-287x287	Polyurethane	287x287x20	800	60
PZ-G48-592x592	Polyurethane	592x592x48	3200	45
PZ-G48-490x592	Polyurethane	490x592x48	2650	45
PZ-G48-287x592	Polyurethane	287x592x48	1600	45
PZ-G48-287x287	Polyurethane	287x287x48	800	45



PP-G20-592x592		
Filter Model	Pol. Panel	PP
Frame Type	Galvanized	G
Frame Depth	20mm	20
Filter Dimensions	WxH (mm)	592x592



METAL FILTER

Specifications

- Long service life
- Long maintenance intervals
- Easy to handle and install
- Multiple layers of media
- Various frame sizes with any dimensions
- Small transport volume
- Mechanical strenght
- Low pressure drop
- Resistance to high temperatures



Filter Class; G2,G3

Standard depth; 20 - 48mm

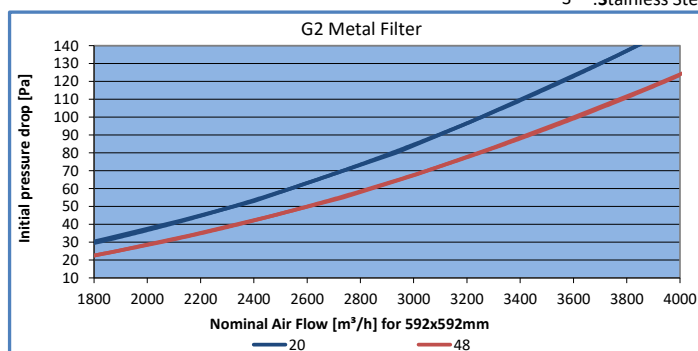
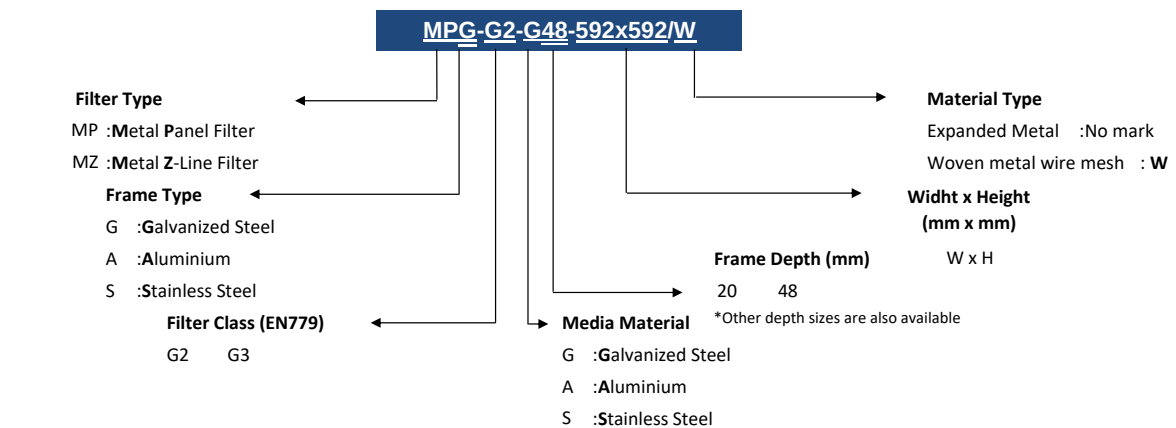
Media; Expanded metal, wire mesh (Aluminium, Galvanized)

Application; Grease or oil mist separation

Frame type; Galvanized, Aluminium, Stainless Steel

Filter Model	Filter Class	Media Material	Dimensions WxHxD (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
MPG-G2-A20-592x592	G2	Aluminium	592x592x20	3200	100
MPG-G2-A20-490x592	G2	Aluminium	490x592x20	2650	100
MPG-G2-A20-287x592	G2	Aluminium	287x592x20	1600	100
MPG-G2-A20-287x287	G2	Aluminium	287x287x20	800	100
MPG-G2-A48-592x592	G2	Aluminium	592x592x48	3200	80
MPG-G2-A48-490x592	G2	Aluminium	490x592x48	2650	80
MPG-G2-A48-287x592	G2	Aluminium	287x592x48	1600	80
MPG-G2-A48-287x287	G2	Aluminium	287x287x48	800	80

Other dimensions and depth sizes are available on request.



MPG-G2-A20-592x592		
Filter Model	Metal Panel	MP
Frame Type	Galvanized	G
Filter Class	G2	G2
Media Material	Aluminium	A
Frame Depth	20mm	20
Filter Dimensions	WxH (mm)	592x592
Material Type	Expanded M.	No Mark

Specifications

- Simple and light weight
- Grid on both sides
- Changeable synthetic media
- %100 hot deep galvanized frame
- Various frame sizes with any dimensions
- Long maintenance intervals
- Easy installation
- High dust holding capacity



Filter Class; G3 - G4

Media; Polyester

Frame type; Galvanized Metal

Standard depth; 48 - 96mm

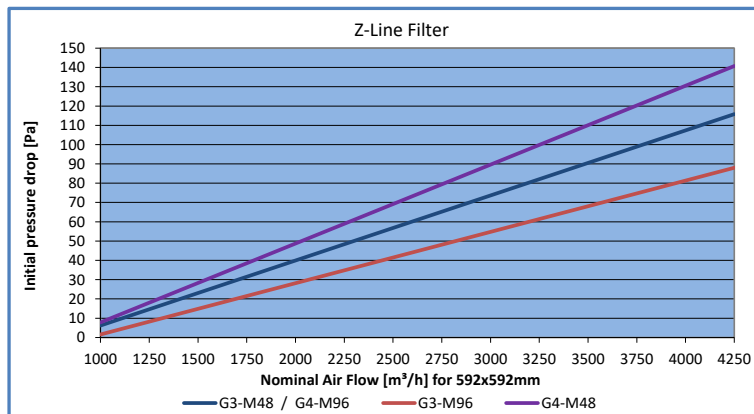
Final Pressure Drop; 250 Pa

Max. Operating Temperature; 75°C

Application; Prefilter for HVAC

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
GZ-G3-M48-592x592	G3	592x592x48	3200	70
GZ-G3-M48-490x592	G3	490x592x48	2600	70
GZ-G3-M48-287x592	G3	287x592x48	1600	70
GZ-G3-M48-287x287	G3	287x287x48	800	70
GZ-G4-M48-592x592	G4	592x592x48	3200	85
GZ-G4-M48-490x592	G4	490x592x48	2600	85
GZ-G4-M48-287x592	G4	287x592x48	1600	85
GZ-G4-M48-287x287	G4	287x287x48	800	85
GZ-G3-M96-592x592	G3	592x592x96	3200	50
GZ-G3-M96-490x592	G3	490x592x96	2600	50
GZ-G3-M96-287x592	G3	287x592x96	1600	50
GZ-G3-M96-287x287	G3	287x287x96	800	50
GZ-G4-M96-592x592	G4	592x592x96	3200	65
GZ-G4-M96-490x592	G4	490x592x96	2600	65
GZ-G4-M96-287x592	G4	287x592x96	1600	65
GZ-G4-M96-287x287	G4	287x287x96	800	65

Other dimensions and depth sizes are available on request.



GZ-G4-M48-592x592

Filter Model	Z-Line	GZ
Filter Class	G4 (EN779)	G4
Filter Capacity*	Medium	M
Filter Depth	48mm	48
Filter Dimensions WxH (mm)		592x592

*Filter Capacity; M=Medium, H=High

Specifications

- Simple and light weight
- Grid on both sides
- Changeable synthetic media
- Solid frame
- Various frame sizes with any dimensions
- Long maintenance intervals
- Easy installation
- High dust holding capacity



Filter Class; G3 - G4

Media; Synthetic Fibre

Frame type; Cardboard

Standard depth; 48 - 96mm

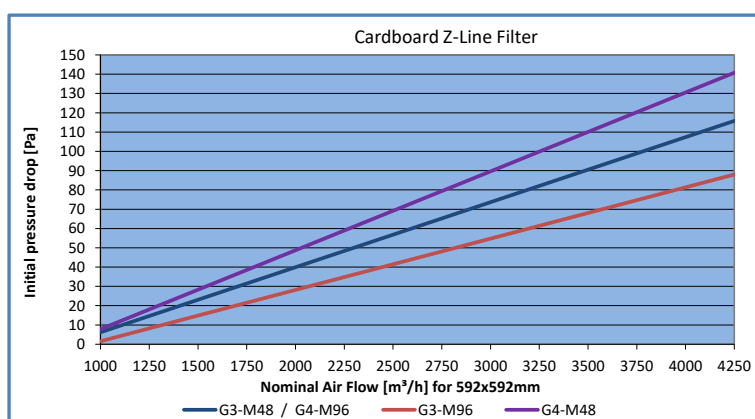
Final Pressure Drop; 250 Pa

Max. Operating Temperature; 75°C

Application; Prefilter for HVAC

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
GZ-G3-CM48-592x592	G3	592x592x48	3200	70
GZ-G3-CM48-287x592	G3	287x592x48	1600	70
GZ-G3-CM48-287x287	G3	287x287x48	800	70
GZ-G4-CM48-592x592	G4	592x592x48	3200	85
GZ-G4-CM48-287x592	G4	287x592x48	1600	85
GZ-G4-CM48-287x287	G4	287x287x48	800	85
GZ-G3-CM96-592x592	G3	592x592x96	3200	50
GZ-G3-CM96-287x592	G3	287x592x96	1600	50
GZ-G3-CM96-287x287	G3	287x287x96	800	50
GZ-G4-CM96-592x592	G4	592x592x96	3200	65
GZ-G4-CM96-287x592	G4	287x592x96	1600	65
GZ-G4-CM96-287x287	G4	287x287x96	800	65

Other dimensions and depth sizes are available on request.



GZ-G4-CM48-592x592

Filter Model	Z-Line	GZ
Filter Class	G4 (EN779)	G4
Filter Frame	Cardboard	C
Filter Capacity*	Medium	M
Filter Depth	48mm	48
Filter Dimensions WxH (mm)		592x592

*Filter Capacity; M=Medium, H=High

Specifications

- Self-supporting pockets
- No special mechanical support required
- Standard pocket filter frames
- Simple and light weight
- Synthetic bags
- Low pressure drop
- Long service life
- Small transport volume
- Rigid bag model available (RB)
- Easy installation



Filter Class; G3 - G4

Media; Polyester

Frame type; Galvanized metal (25mm)

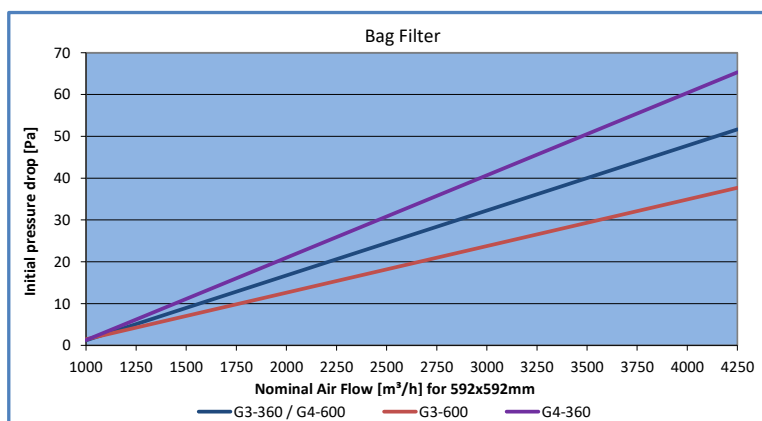
Final Pressure Drop; 250 Pa

Max. Operating Temperature; 75° C

Application; Prefilter for HVAC

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Pocket Quantity (pcs.)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
GB-G3-P6-592x592x360	G3	592x592x360	6	3400	40
GB-G3-P5-490x592x360	G3	490x592x360	5	2800	40
GB-G3-P3-287x592x360	G3	287x592x360	3	1700	40
GB-G3-P3-287x287x360	G3	287x287x360	3	850	40
GB-G4-P6-592x592x360	G4	592x592x360	6	3400	50
GB-G4-P5-490x592x360	G4	490x592x360	5	2800	50
GB-G4-P3-287x287x360	G4	287x592x360	3	1700	50
GB-G4-P3-287x592x360	G4	287x287x360	3	850	50
GB-G3-P6-592x592x600	G3	592x592x600	6	3400	30
GB-G3-P5-490x592x600	G3	490x592x600	5	2800	30
GB-G3-P3-287x592x600	G3	287x592x600	3	1700	30
GB-G3-P3-287x592x600	G3	287x287x600	3	850	30
GB-G4-P6-592x592x600	G4	592x592x600	6	3400	40
GB-G4-P5-490x592x600	G4	490x592x600	5	2800	40
GB-G4-P3-287x592x600	G4	287x592x600	3	1700	40
GB-G4-P3-287x287x600	G4	287x287x600	3	850	40

Other dimensions and depth sizes are available on request.



GB-G4-P6-592x592x360

Filter Model*	Bag Filter	GB
Filter Class	G4 (EN779)	G4
Pocket Number	6	P6
Filter Dimensions WxH (mm)		592x592
Filter Depth	360mm	360

* Use "GRB" to define Rigid Bag model.

Specifications

- Simple and light weight
- No special mechanical support required
- Standard pocket filter frames
- Self-supporting pockets
- Synthetic bags
- Low pressure drop
- Long service life
- Small transport volume
- Wide range of application area
- Easy installation



Filter Class; M5 -F9

Media; Synthetic

Frame type; Galvanized metal (25mm)

Final Pressure Drop; 450 Pa

Max. Operating Temperature; 75° C

Application; Prefilter for HVAC

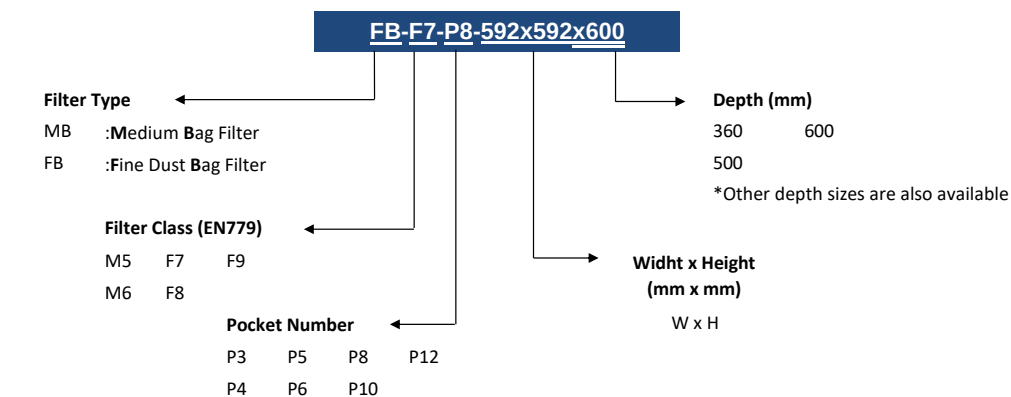


The filters are used as pre- or main filter in;

*Operating theatres, hospitals and air conditioning applications (HVAC)

*Industrial processes like chemical, power generation, microelectronics, pharmaceutical, the food industry, optical, microbiology, medicine etc.

M5, F6, F7, F8, and F9 Filters are made from synthetic fibres specially designed tapered bag which allow for smooth air flow. The bags are mounted air tightly into a frame made of galvanized metal, without using glue.

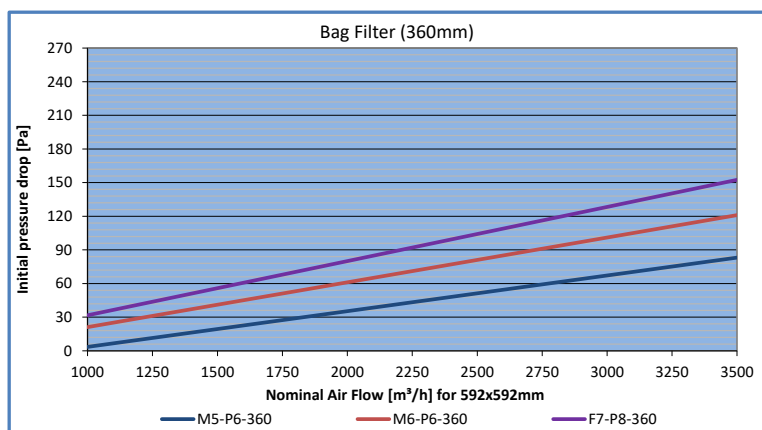


MB-M5-P6-592x592x360		
Filter Model	S-Bag Filter	MB
Filter Class	M5 (EN779)	M5
Pocket Number	6	P6
Filter Dimensions	WxH (mm)	592x592
Filter Depth	360mm	360

FB-F8-P8-592x592x600		
Filter Model	S-Bag Filter	FB
Filter Class	F8 (EN779)	F8
Pocket Number	8	P8
Filter Dimensions	WxH (mm)	592x592
Filter Depth	600mm	600

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Pocket Number (pcs.)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MB-M5-P6-592x592x360	M5	592x592x360	6	3,2	2250	40
MB-M5-P5-490x592x360	M5	490x592x360	5	2,7	1800	40
MB-M5-P3-287x592x360	M5	287x592x360	3	1,6	1125	40
MB-M5-P3-287x287x360	M5	287x287x360	3	0,8	560	40
MB-M6-P6-592x592x360	M6	592x592x360	6	3,2	2250	70
MB-M6-P5-490x592x360	M6	490x592x360	5	2,7	1800	70
MB-M6-P3-287x592x360	M6	287x592x360	3	1,6	1125	70
MB-M6-P3-287x287x360	M6	287x287x360	3	0,8	560	70
MB-M5-P8-592x592x360	M5	592x592x360	8	4,2	2250	40
MB-M5-P6-490x592x360	M5	490x592x360	6	3,2	1800	40
MB-M5-P4-287x592x360	M5	287x592x360	4	2,1	1125	40
MB-M5-P4-287x287x360	M5	287x287x360	4	1,1	560	40
MB-M6-P8-592x592x360	M6	592x592x360	8	4,2	2250	60
MB-M6-P6-490x592x360	M6	490x592x360	6	3,2	1800	60
MB-M6-P4-287x592x360	M6	287x592x360	4	2,1	1125	60
MB-M6-P4-287x287x360	M6	287x287x360	4	1,1	560	60
FB-F7-P8-592x592x360	F7	592x592x360	8	4,2	2250	90
FB-F7-P6-490x592x360	F7	490x592x360	6	3,2	1800	90
FB-F7-P4-287x592x360	F7	287x592x360	4	2,1	1125	90
FB-F7-P4-287x287x360	F7	287x287x360	4	1,1	560	90

Other dimensions and depth sizes are available on request.



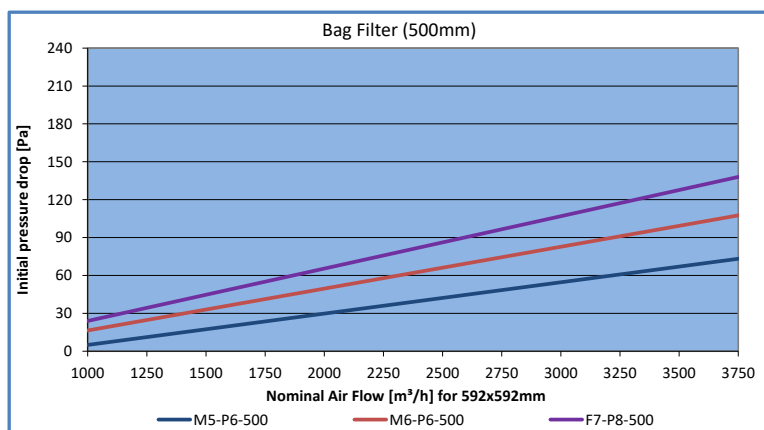
FB-F7-P8-592x592x360		
Filter Model	Bag Filter	FB
Filter Class	F7 (EN779)	F7
Pocket Number	8	P8
Filter Dimensions	WxH (mm)	592x592
Filter Depth	360mm	360

S - BAG FILTER

(M5-F9; 500mm)

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Pocket Number (pcs.)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MB-M5-P6-592x592x500	M5	592x592x500	6	4,1	2550	40
MB-M5-P5-490x592x500	M5	490x592x500	5	3,4	2040	40
MB-M5-P3-287x592x500	M5	287x592x500	3	2	1275	40
MB-M5-P3-287x287x500	M5	287x287x500	3	1,1	635	40
MB-M6-P6-592x592x500	M6	592x592x500	6	4,1	2550	65
MB-M6-P5-490x592x500	M6	490x592x500	5	3,4	2040	65
MB-M6-P3-287x592x500	M6	287x592x500	3	2	1275	65
MB-M6-P3-287x287x500	M6	287x287x500	3	1,1	635	65
MB-M5-P8-592x592x500	M5	592x592x500	8	5,4	2550	35
MB-M5-P6-490x592x500	M5	490x592x500	6	4,1	2040	35
MB-M5-P4-287x592x500	M5	287x592x500	4	2,7	1275	35
MB-M5-P4-287x287x500	M5	287x287x500	4	1,4	635	35
MB-M6-P8-592x592x500	M6	592x592x500	8	5,4	2550	60
MB-M6-P6-490x592x500	M6	490x592x500	6	4,1	2040	60
MB-M6-P4-287x592x500	M6	287x592x500	4	2,7	1275	60
MB-M6-P4-287x287x500	M6	287x287x500	4	1,4	635	60
FB-F7-P8-592x592x500	F7	592x592x500	8	5,4	2550	85
FB-F7-P6-490x592x500	F7	490x592x500	6	4,1	2040	85
FB-F7-P4-287x592x500	F7	287x592x500	4	2,7	1275	85
FB-F7-P4-287x287x500	F7	287x287x500	4	1,4	635	85

Other dimensions and depth sizes are available on request.



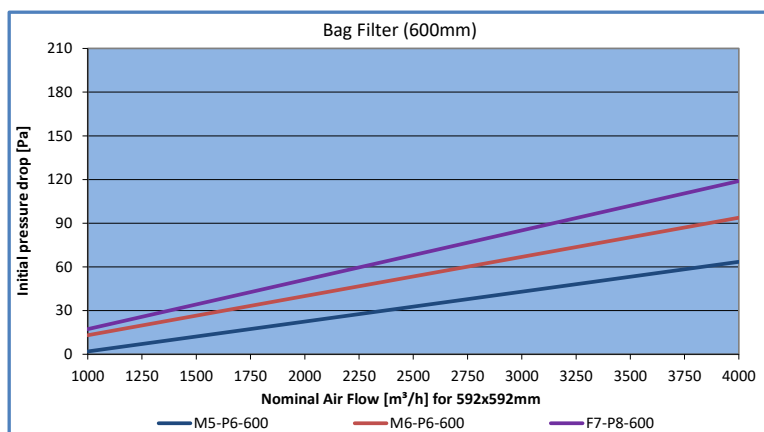
FB-F7-P8-592x592x500		
Filter Model	Bag Filter	FB
Filter Class	F7 (EN779)	F7
Pocket Number	8	P8
Filter Dimensions	WxH (mm)	592x592
Filter Depth	500mm	500

S - BAG FILTER

(M5-F9; 600mm)

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Pocket Number (pcs.)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MB-M5-P6-592x592x600	M5	592x592x600	6	4,9	3000	40
MB-M5-P5-490x592x600	M5	490x592x600	5	4,1	2400	40
MB-M5-P3-287x592x600	M5	287x592x600	3	2,4	1500	40
MB-M5-P3-287x287x600	M5	287x287x600	3	1,3	750	40
MB-M6-P6-592x592x600	M6	592x592x600	6	4,9	3000	65
MB-M6-P5-490x592x600	M6	490x592x600	5	4,1	2400	65
MB-M6-P3-287x592x600	M6	287x592x600	3	2,4	1500	65
MB-M6-P3-287x287x600	M6	287x287x600	3	1,3	750	65
MB-M5-P8-592x592x600	M5	592x592x600	8	6,5	3000	35
MB-M5-P6-490x592x600	M5	490x592x600	6	4,9	2400	35
MB-M5-P4-287x592x600	M5	287x592x600	4	3,3	1500	35
MB-M5-P4-287x287x600	M5	287x287x600	4	1,7	750	35
MB-M6-P8-592x592x600	M6	592x592x600	8	6,5	3000	60
MB-M6-P6-490x592x600	M6	490x592x600	6	4,9	2400	60
MB-M6-P4-287x592x600	M6	287x592x600	4	3,3	1500	60
MB-M6-P4-287x287x600	M6	287x287x600	4	1,7	750	60
FB-F7-P8-592x592x600	F7	592x592x600	8	6,5	3000	85
FB-F7-P6-490x592x600	F7	490x592x600	6	4,9	2400	85
FB-F7-P4-287x592x600	F7	287x592x600	4	3,3	1500	85
FB-F7-P4-287x287x600	F7	287x287x600	4	1,7	750	85

Other dimensions and depth sizes are available on request.



FB-F7-P8-592x592x600		
Filter Model	Bag Filter	FB
Filter Class	F7 (EN779)	F7
Pocket Number	8	P8
Filter Dimensions	WxH (mm)	592x592
Filter Depth	600mm	600

AIR FILTER TECHNOLOGY (EN779)

PANEL FILTER

(Galvanized Metal or Plastic Frame)

Specifications

- Large surface area
- Low pressure drop
- High quality glass fibre
- Small transport volume
- Airflow and installation in any direction possible
- Self-supporting and rigid
- Simple and light weight
- Easy installation
- Long service life



Filter Class; M6 - F7 - F8 - F9

Media; Glass Fibre

Frame Type; Galvanized metal

Faceguard; Without (available on request)

Gasket; Without (available on request)

Final Pressure Drop; 450 Pa

Max. Operating Temperature; 75° C

Application; Prefilter for HVAC

Sealing Compound; Two component polyurethane

Seperator; Hotmelt



ULPATEK wide range of panel filters answer the demands of our customers to remove air contamination such as fine dust, smoke, vapour, soot, pollen, bacteria, etc. as prefilters or as final filters in air conditioning applications.

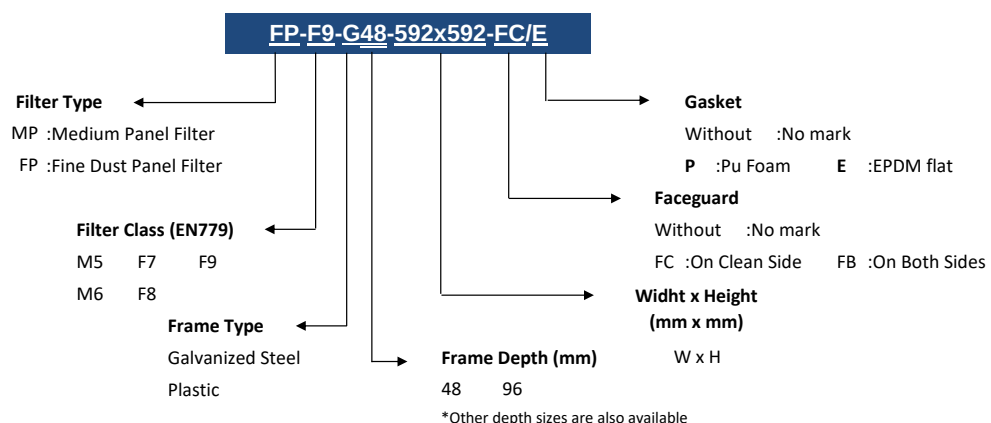
The high quality glass fibre media used in Panel Filter supply optimum performance with suitable pleat height. The water-resistant plastic frame provides extra assurance in high-humidity applications.

Panel Filters are suitable for all standard application in any efficiencies and sizes. For applications requiring increased service life, please select corresponding filters out of filter range.

Filter Pleat	Frame Depth	Filtration Area per m ² Face Area	Nominal Air Flow for 592x592mm	Filter Class (EN779)	Pack Resistance @Nominal Air Flow
	(mm)	(m ²)	(m ³ /h)		(Pa)
	48	17,1	2000	M6	60
				F7	80
				F8	100
				F9	145
	96	34,2	3000	M6	70
				F7	90
				F8	110
				F9	150

Other frame depths are available for special applications.

Panel Filters are tested in accordance with European Standard EN779:2012.



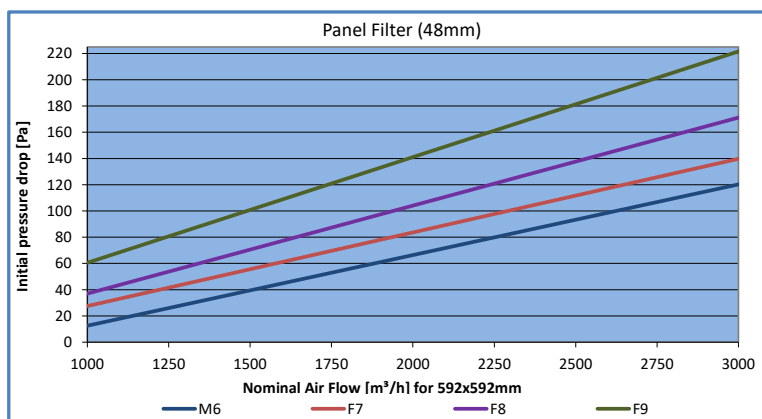
ADVANCED FILTRATION FOR A BETTER FUTURE!

G - PANEL FILTER

(Galvanized Metal Frame; 48mm)

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MP-M6-G48-592x592	M6	592x592x48	6	2000	60
MP-M6-G48-490x592	M6	490x592x48	5	1660	60
MP-M6-G48-287x592	M6	287x592x48	3	1000	60
MP-M6-G48-287x287	M6	287x287x48	1,5	500	60
FP-F7-G48-592x592	F7	592x592x48	6	2000	80
FP-F7-G48-490x592	F7	490x592x48	5	1660	80
FP-F7-G48-287x592	F7	287x592x48	3	1000	80
FP-F7-G48-287x287	F7	287x287x48	1,5	500	80
FP-F8-G48-592x592	F8	592x592x48	6	2000	100
FP-F8-G48-490x592	F8	490x592x48	5	1660	100
FP-F8-G48-287x592	F8	287x592x48	3	1000	100
FP-F8-G48-287x287	F8	287x287x48	1,5	500	100
FP-F9-G48-592x592	F9	592x592x48	6	2000	145
FP-F9-G48-490x592	F9	490x592x48	5	1660	145
FP-F9-G48-287x592	F9	287x592x48	3	1000	145
FP-F9-G48-287x287	F9	287x287x48	1,5	500	145

Other dimensions and depth sizes are available on request.



MP-M6-G48-592x592

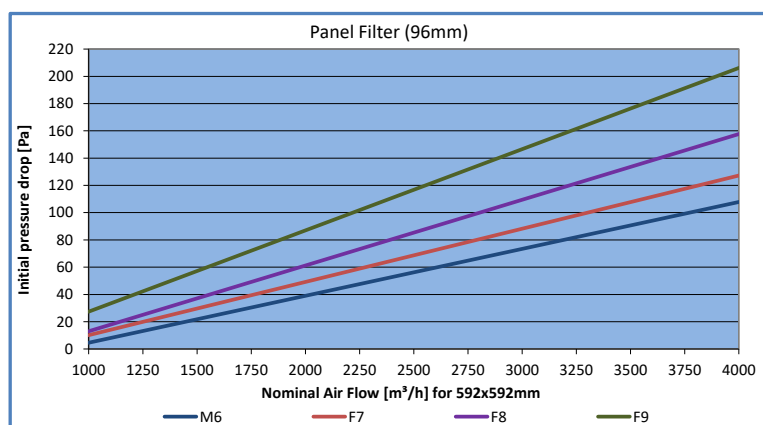
Filter Model	Medium Panel	MP
Filter Class	M6 (EN779)	M6
Frame Material	Galvanized	G
Filter Depth	48mm	48
Filter Dimensions	WxH (mm)	592x592
Faceguard	Without	-
Gasket	Without	-

G - PANEL FILTER

(Galvanized Metal Frame; 96mm)

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MP-M6-G96-592x592	M6	592x592x96	12	3000	70
MP-M6-G96-490x592	M6	490x592x96	10	2500	70
MP-M6-G96-287x592	M6	287x592x96	6	1500	70
MP-M6-G96-287x287	M6	287x287x96	3	750	70
FP-F7-G96-592x592	F7	592x592x96	12	3000	90
FP-F7-G96-490x592	F7	490x592x96	10	2500	90
FP-F7-G96-287x592	F7	287x592x96	6	1500	90
FP-F7-G96-287x287	F7	287x287x96	3	750	90
FP-F8-G96-592x592	F8	592x592x96	12	3000	110
FP-F8-G96-490x592	F8	490x592x96	10	2500	110
FP-F8-G96-287x592	F8	287x592x96	6	1500	110
FP-F8-G96-287x287	F8	287x287x96	3	750	110
FP-F9-G96-592x592	F9	592x592x96	12	3000	150
FP-F9-G96-490x592	F9	490x592x96	10	2500	150
FP-F9-G96-287x592	F9	287x592x96	6	1500	150
FP-F9-G96-287x287	F9	287x287x96	3	750	150

Other dimensions and depth sizes are available on request.



FP-F7-G96-592x592

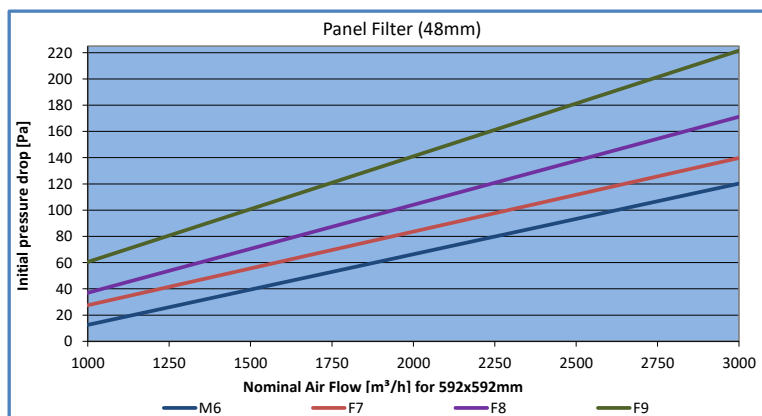
Filter Model	Fine Dust Panel	FP
Filter Class	F7 (EN779)	F7
Frame Material	Galvanized	G
Filter Depth	96mm	96
Filter Dimensions	WxH (mm)	592x592
Faceguard	Without	-
Gasket	Without	-

P - PANEL FILTER

(Plastic Frame; 48mm)

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MP-M6-P48-592x592	M6	592x592x48	6	2000	60
MP-M6-P48-490x592	M6	490x592x48	5	1660	60
MP-M6-P48-287x592	M6	287x592x48	3	1000	60
MP-M6-P48-287x287	M6	287x287x48	1,5	500	60
FP-F7-P48-592x592	F7	592x592x48	6	2000	80
FP-F7-P48-490x592	F7	490x592x48	5	1660	80
FP-F7-P48-287x592	F7	287x592x48	3	1000	80
FP-F7-P48-287x287	F7	287x287x48	1,5	500	80
FP-F8-P48-592x592	F8	592x592x48	6	2000	100
FP-F8-P48-490x592	F8	490x592x48	5	1660	100
FP-F8-P48-287x592	F8	287x592x48	3	1000	100
FP-F8-P48-287x287	F8	287x287x48	1,5	500	100
FP-F9-P48-592x592	F9	592x592x48	6	2000	145
FP-F9-P48-490x592	F9	490x592x48	5	1660	145
FP-F9-P48-287x592	F9	287x592x48	3	1000	145
FP-F9-P48-287x287	F9	287x287x48	1,5	500	145

Other dimensions and depth sizes are available on request.



FP-F8-P48-592x592

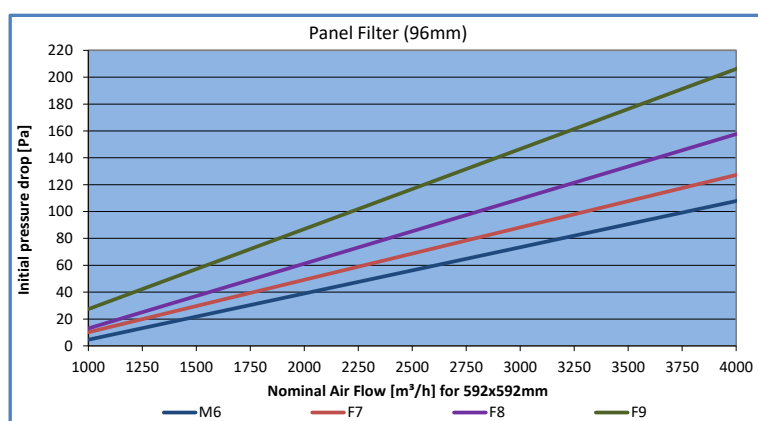
Filter Model	Medium Panel	FP
Filter Class	F8 (EN779)	F8
Frame Material	Plastic	P
Filter Depth	48mm	48
Filter Dimensions	WxH (mm)	592x592
Faceguard	Without	-
Gasket	Without	-

P - PANEL FILTER

(Plastic Frame; 96mm)

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MP-M6-P96-592x592	M6	592x592x96	12	3000	70
MP-M6-P96-490x592	M6	490x592x96	10	2500	70
MP-M6-P96-287x592	M6	287x592x96	6	1500	70
MP-M6-P96-287x287	M6	287x287x96	3	750	70
FP-F7-P96-592x592	F7	592x592x96	12	3000	90
FP-F7-P96-490x592	F7	490x592x96	10	2500	90
FP-F7-P96-287x592	F7	287x592x96	6	1500	90
FP-F7-P96-287x287	F7	287x287x96	3	750	90
FP-F8-P96-592x592	F8	592x592x96	12	3000	110
FP-F8-P96-490x592	F8	490x592x96	10	2500	110
FP-F8-P96-287x592	F8	287x592x96	6	1500	110
FP-F8-P96-287x287	F8	287x287x96	3	750	110
FP-F9-P96-592x592	F9	592x592x96	12	3000	150
FP-F9-P96-490x592	F9	490x592x96	10	2500	150
FP-F9-P96-287x592	F9	287x592x96	6	1500	150
FP-F9-P96-287x287	F9	287x287x96	3	750	150

Other dimensions and depth sizes are available on request.



FP-F9-P96-592x592

Filter Model	Fine Dust Panel	FP
Filter Class	F9 (EN779)	F9
Frame Material	Plastic	P
Filter Depth	96mm	96
Filter Dimensions	WxH (mm)	592x592
Faceguard	Without	-
Gasket	Without	-

Specifications

- Large surface area
- Low pressure drop
- Header depths are 20 and 25mm
- Small transport volume
- Airflow and installation in any direction possible
- Self-supporting and rigid
- Simple and light weight
- Easy installation
- Long service life



Filter Class; M6 - F7 - F8 - F9

Media; Glass Fibre

Frame type; Anodized rigid aluminium

Faceguard; Without (available on request)

Depth; 100, 130 and 149mm

Final Pressure Drop; 450 Pa

Max. Operating Temperature; 75° C

Application; Prefilter for HVAC

Sealing Compound; Two component polyurethane

Seperator; Hotmelt



Filter Pleat	Model	Filtration Area per m² Face Area (m²)	Nominal Air Flow for 592x592mm (m³/h)	Filter Class (EN779)	Pack Resistance @Nominal Air Flow (Pa)
	A100 P100	28,5	3000	M6	100
				F7	125
				F8	150
				F9	170
	A130L P130L	18,5	2250	M6	75
				F7	100
				F8	130
				F9	170
	A130H P130H	37,0	3000	M6	90
				F7	110
				F8	140
				F9	160

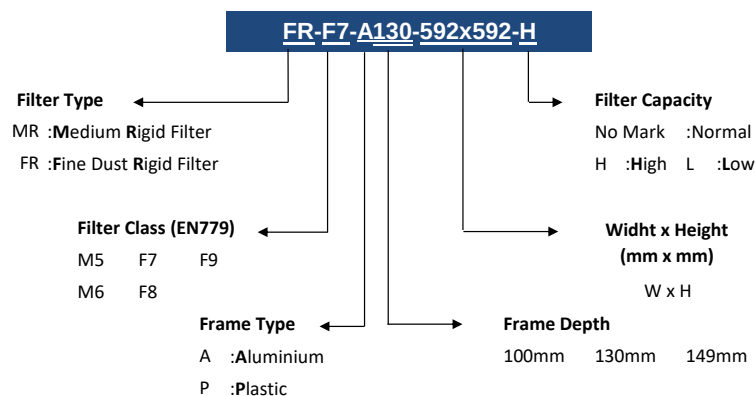
Other frame depths are available for special applications.

ULPATEK wide range of Rigid filters answer the demands of our customers to remove air contamination such as fine dust, smoke, vapour, soot, pollen, bacteria, etc. as prefilters or as final filters in air conditioning applications.

ULPATEK Rigid Filters offer a high dust holding capacity and long service life with optimum filtration area according to system capacity. Fully incinerable plastic frame constructed from recyclable materials reduce its impact on the environment.

Rigid Filters are suitable for all standard application in any efficiencies and sizes. For applications requiring increased service life, please select corresponding filters out of filter range.

Anodized aluminium frame provides mechanical stable and strength despite of the low weight.

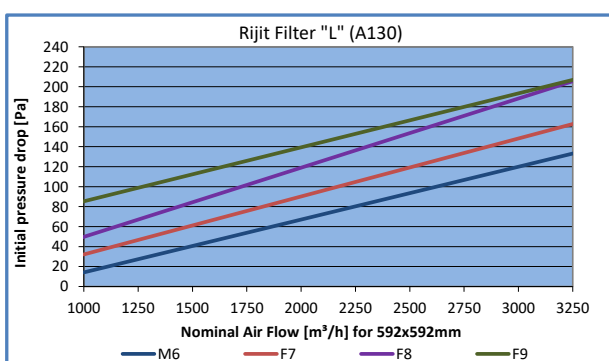


A - RIGID FILTER

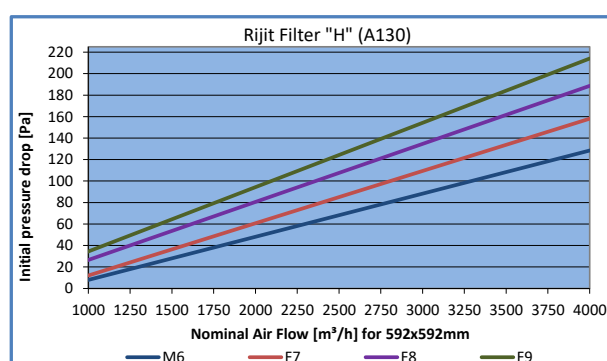
(Aluminium; A100, A130L, A130H)

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MR-M6-A100-592x592	M6	592x592x100	10	3000	100
MR-M6-A100-287x592	M6	287x592x100	5	1500	100
FR-F7-A100-592x592	F7	592x592x100	10	3000	125
FR-F7-A100-287x592	F7	287x592x100	5	1500	125
FR-F8-A100-592x592	F8	592x592x100	10	3000	150
FR-F8-A100-287x592	F8	287x592x100	5	1500	150
FR-F9-A100-592x592	F9	592x592x100	10	3000	170
FR-F9-A100-287x592	F9	287x592x100	5	1500	170
MR-M6-A130-592x592-L	M6	592x592x130	6,5	2250	75
MR-M6-A130-287x592-L	M6	287x592x130	3,3	1125	75
F7-F7-A130-592x592-L	F7	592x592x130	6,5	2250	100
F7-F7-A130-287x592-L	F7	287x592x130	3,3	1125	100
F8-F8-A130-592x592-L	F8	592x592x130	6,5	2250	130
F8-F8-A130-287x592-L	F8	287x592x130	3,3	1125	130
F9-F9-A130-592x592-L	F9	592x592x130	6,5	2250	170
F9-F9-A130-287x592-L	F9	287x592x130	3,3	1125	170
MR-M6-A130-592x592-H	M6	592x592x130	13	3000	90
MR-M6-A130-287x592-H	M6	287x592x130	6,5	1500	90
FR-F7-A130-592x592-H	F7	592x592x130	13	3000	110
F7-F7-A130-287x592-H	F7	287x592x130	6,5	1500	110
FR-F8-A130-592x592-H	F8	592x592x130	13	3000	140
FR-F8-A130-287x592-H	F8	287x592x130	6,5	1500	140
FR-F9-A130-592x592-H	F9	592x592x130	13	3000	160
FR-F9-A130-287x592-H	F9	287x592x130	6,5	1500	160

Other dimensions are available on request.



* Check P100 curve for model A100.



MR-M6-A130-592x592-L		
Filter Model	Medium Rigid	MR
Filter Class	M6 (EN779)	M6
Frame Material	Aluminium	A
Filter Depth	130mm	130
Filter Dimensions	WxH (mm)	592x592
Filter Capacity	Low	L

FR-F7-A130-592x592-H		
Filter Model	Fine Dust Rigid	FR
Filter Class	F7 (EN779)	F7
Frame Material	Aluminium	A
Filter Depth	130mm	130
Filter Dimensions	WxH (mm)	592x592
Filter Capacity	High	H

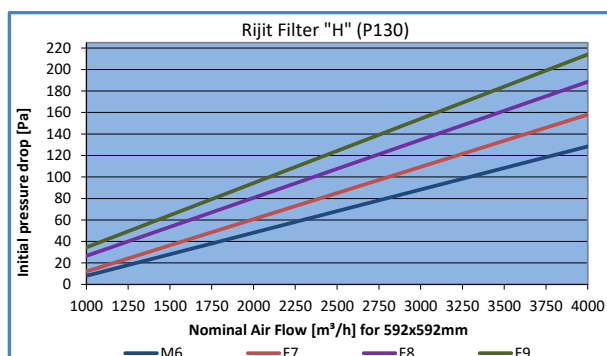
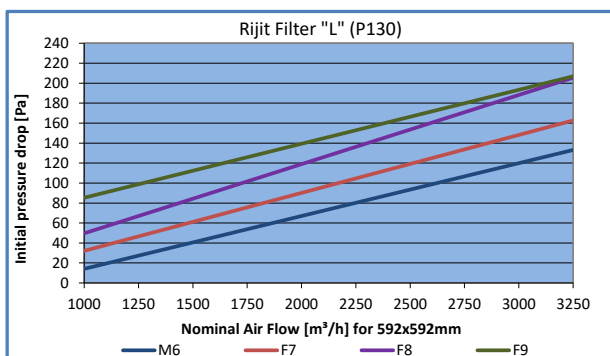
AIR FILTER TECHNOLOGY (EN779)

P - RIGID FILTER

(Plastic; P130L, P130H)

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MR-M6-P130-592x592-L	M6	592x592x130	6,5	2250	75
MR-M6-P130-287x592-L	M6	287x592x130	3,3	1125	75
F7-F7-P130-592x592-L	F7	592x592x130	6,5	2250	100
F7-F7-P130-287x592-L	F7	287x592x130	3,3	1125	100
F8-F8-P130-592x592-L	F8	592x592x130	6,5	2250	130
F8-F8-P130-287x592-L	F8	287x592x130	3,3	1125	130
F9-F9-P130-592x592-L	F9	592x592x130	6,5	2250	170
F9-F9-P130-287x592-L	F9	287x592x130	3,3	1125	170
MR-M6-P130-592x592-H	M6	592x592x130	13	3000	90
MR-M6-P130-287x592-H	M6	287x592x130	6,5	1500	90
FR-F7-P130-592x592-H	F7	592x592x130	13	3000	110
F7-F7-P130-287x592-H	F7	287x592x130	6,5	1500	110
FR-F8-P130-592x592-H	F8	592x592x130	13	3000	140
FR-F8-P130-287x592-H	F8	287x592x130	6,5	1500	140
FR-F9-P130-592x592-H	F9	592x592x130	13	3000	160
FR-F9-P130-287x592-H	F9	287x592x130	6,5	1500	160

Other dimensions are available on request.



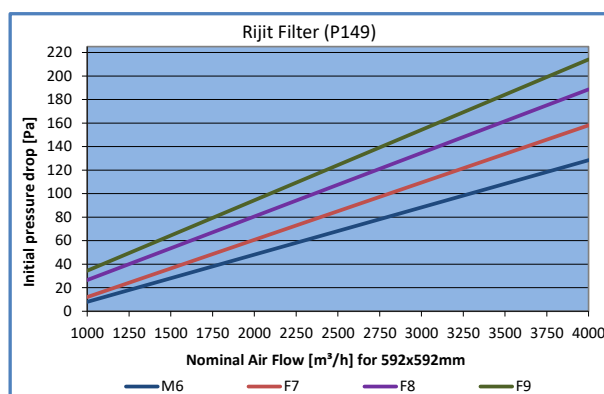
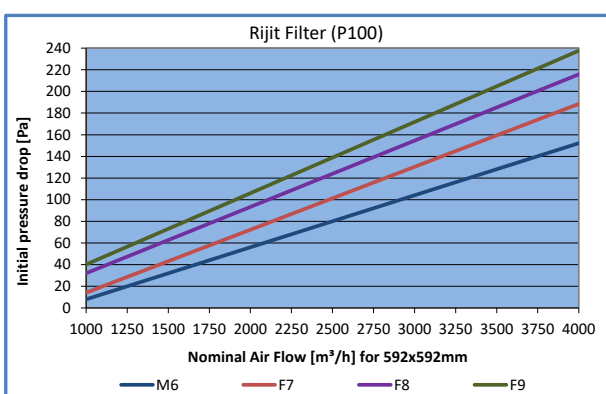
MR-M6-P130-592x592-L		
Filter Model	Medium Rigid	MR
Filter Class	M6 (EN779)	M6
Frame Material	Plastic	P
Filter Depth	130mm	130
Filter Dimensions	WxH (mm)	592x592
Filter Capacity	Low	L

FR-F7-P130-592x592-H		
Filter Model	Fine Dust Rigid	FR
Filter Class	F7 (EN779)	F7
Frame Material	Plastic	P
Filter Depth	130mm	130
Filter Dimensions	WxH (mm)	592x592
Filter Capacity	High	H



ADVANCED FILTRATION FOR A BETTER FUTURE!

Filter Model	Filter Class (EN779)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MR-M6-P100-592x592	M6	592x592x100	10	3000	100
MR-M6-P100-287x592	M6	287x592x100	5	1500	100
FR-F7-P100-592x592	F7	592x592x100	10	3000	125
FR-F7-P100-287x592	F7	287x592x100	5	1500	125
FR-F8-P100-592x592	F8	592x592x100	10	3000	150
FR-F8-P100-287x592	F8	287x592x100	5	1500	150
FR-F9-P100-592x592	F9	592x592x100	10	3000	170
FR-F9-P100-287x592	F9	287x592x100	5	1500	170



FR-F8-P100-592x592		
Filter Model	Fine Dust Rigid	FR
Filter Class	F8 (EN779)	F8
Frame Material	Plastic	P
Filter Depth	100mm	100
Filter Dimensions	WxH (mm)	592x592
Filter Capacity	Standard	-

FR-F9-P149-592x592		
Filter Model	Fine Dust Rigid	FR
Filter Class	F9 (EN779)	F9
Frame Material	Plastic	P
Filter Depth	149mm	149
Filter Dimensions	WxH (mm)	592x592
Filter Capacity	Standard	-

V-COMPACT FILTER

Specifications

- Large filter surface
- Less maintenance and energy consumption
- Header depth is 25mm
- Fully incinerable without pollutant emission
- Airflow and installation in any direction possible

- Self-supporting and rigid
- Long service life
- Easy installation
- Low pressure drop



Filter Class; M6 - F7 - F8 - F9

Media; Glass Fibre

Frame type; %100 recycled plastic frame (PP)

Faceguard; Without (available on request)

Gasket; Without (available on request)

Final Pressure Drop; 450 Pa

Max. Operating Temperature; 75° C

Application; Prefilter for HVAC

Seperator; Hotmelt

Sealing Compound; Two component polyurethane

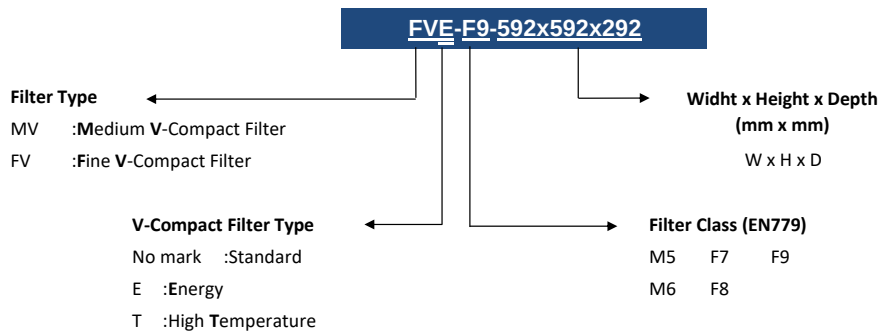


ULPATEK V-Compact Filters are produced with fully incinerable plastic frame constructed from recycleable materials reduce its impact on the environment and carbon emmission.

ULPATEK V-Compact Filters offer a high dust holding capacity and long service life with optimum filtration area according to system capacity.

ULPATEK wide range of V-Compactfilters answer the demands of our customers to remove air contamination such as fine dust, smoke, vapour, soot, pollen, bacteria, etc. as prefilters or as final filters in air conditioning applications.

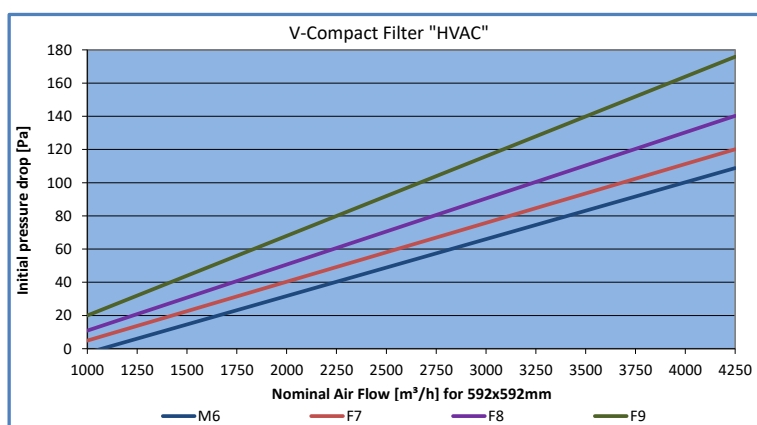
Model	Filtration Area for 610x610mm	Nominal Air Flow for 610x610mm	Filter Class	Initial Pressure Drop @Nominal Air Flow
	(m²)	(m³/h)	(EN779)	(Pa)
HVAC	14,0	4250	M6	108
			F7	130
			F8	150
			F9	185
Energy	18,0	4250	M6	100
			F7	110
			F8	130
			F9	150
High Temperature	18,0	4250	M6	100
			F7	110
			F8	130
			F9	150



V-COMPACT FILTER

HVAC

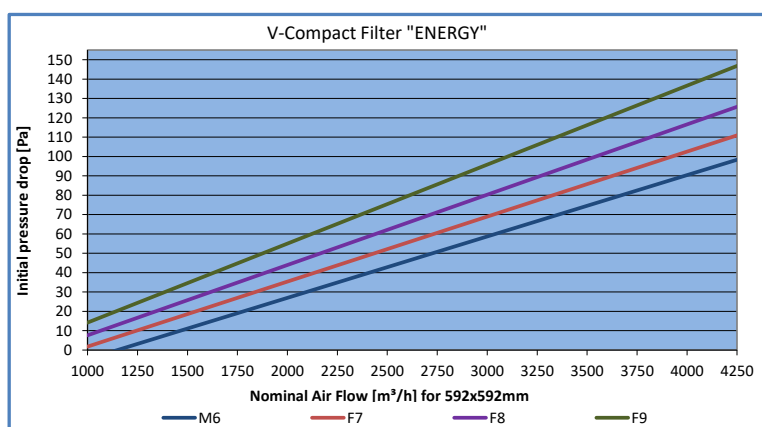
Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MV-M6-592x592x292	M6	592x592x292	14	4250	108
MV-M6-490x592x292	M6	490x592x292	11,5	3500	108
MV-M6-287x592x292	M6	287x592x292	7	2125	108
FV-F7-592x592x292	F7	592x592x292	14	4250	130
FV-F7-490x592x292	F7	490x592x292	11,5	3500	130
FV-F7-287x592x292	F7	287x592x292	7	2125	130
FV-F8-592x592x292	F8	592x592x292	14	4250	150
FV-F8-490x592x292	F8	490x592x292	11,5	3500	150
FV-F8-287x592x292	F8	287x592x292	7	2125	150
FV-F9-592x592x292	F9	592x592x292	14	4250	185
FV-F9-490x592x292	F9	490x592x292	11,5	3500	185
FV-F9-287x592x292	F9	287x592x292	7	2125	185



FV-F7-592x592x292

Filter Model	V-Compact	FV
V-Compact Type	Standard	No Mark
Filter Class	F7 (EN779)	F7
Filter Dimensions	WxH (mm)	592x592
Depth	D (mm)	292

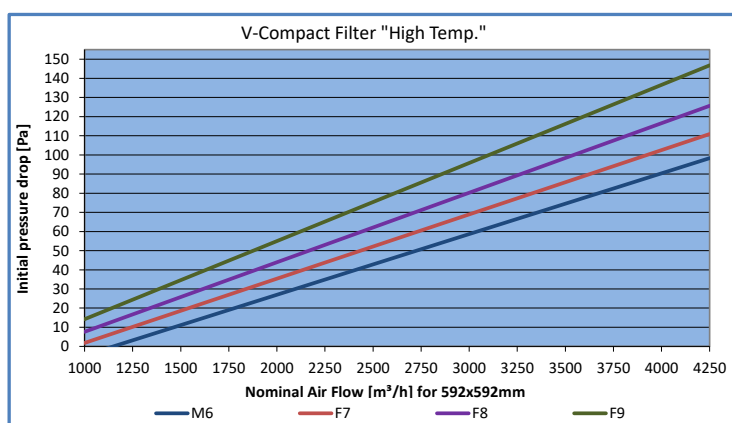
Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MVE-M6-592x592x292	M6	592x592x292	18	4250	100
MVE-M6-490x592x292	M6	490x592x292	14,5	3500	100
MVE-M6-287x592x292	M6	287x592x292	9	2125	100
FVE-F7-592x592x292	F7	592x592x292	18	4250	110
FVE-F7-490x592x292	F7	490x592x292	14,5	3500	110
FVE-F7-287x592x292	F7	287x592x292	9	2125	110
FVE-F8-592x592x292	F8	592x592x292	18	4250	130
FVE-F8-490x592x292	F8	490x592x292	14,5	3500	130
FVE-F8-287x592x292	F8	287x592x292	9	2125	130
FVE-F9-592x592x292	F9	592x592x292	18	4250	150
FVE-F9-490x592x292	F9	490x592x292	14,5	3500	150
FVE-F9-287x592x292	F9	287x592x292	9	2125	150



FVE-F9-592x592x292

Filter Model	V-Compact	FV
V-Compact Type	Energy	E
Filter Class	F9 (EN779)	F9
Filter Dimensions	WxH (mm)	592x592
Depth	D (mm)	292

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
MVT-M6-592x592x292	M6	592x592x292	18	4250	100
MVT-M6-490x592x292	M6	490x592x292	14,5	3500	100
MVT-M6-287x592x292	M6	287x592x292	9	2125	100
FVT-F7-592x592x292	F7	592x592x292	18	4250	110
FVT-F7-490x592x292	F7	490x592x292	14,5	3500	110
FVT-F7-287x592x292	F7	287x592x292	9	2125	110
FVT-F8-592x592x292	F8	592x592x292	18	4250	130
FVT-F8-490x592x292	F8	490x592x292	14,5	3500	130
FVT-F8-287x592x292	F8	287x592x292	9	2125	130
FVT-F9-592x592x292	F9	592x592x292	18	4250	150
FVT-F9-490x592x292	F9	490x592x292	14,5	3500	150
FVT-F9-287x592x292	F9	287x592x292	9	2125	150



FVT-F8-592x592x292

Filter Model	V-Compact	FV
V-Compact Type	H. Temperature	T
Filter Class	F8 (EN779)	F8
Filter Dimensions	WxH (mm)	592x592
Depth	D (mm)	292

Classification Standard EN1822

Efficient air filters (EPA), high efficiency air filters (HEPA) and ultra low penetration air filters (ULPA-filters) which used in the field of ventilation and air conditioning and for technical processes, e.g. for applications in clean room technology or pharmaceutical industry are classified and tested according to the EN 1822:2009 standard.

EN1822 Classification

Filter Group	Class	MPPS Integral Values		MPPS Local Values		Minimum Efficiency (%) @ DOP (0.3 µm)
		Efficiency (%)	Penetration (%)	Efficiency (%)	Penetration (%)	
EPA	E10	85	15	-	-	95
	E11	95	5	-	-	99,9
	E12	99,5	0,5	-	-	99,97
HEPA	H13	99,95	0,05	99,75	0,25	99,99
	H14	99,995	0,005	99,975	0,025	99,999
ULPA	U15	99,9995	0,0005	99,9975	0,0025	-
	U16	99,99995	0,00005	99,99975	0,00025	-
	U17	99,999995	0,000005	99,9999	0,0001	-

MPPS: Most Penetrating Particle Size

Classification Standard EN ISO 14644-1

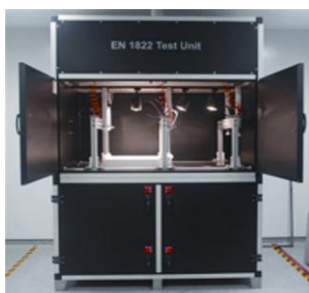
ISO 14644 defines the classification of air cleanliness in cleanrooms and associated controlled environments exclusively in terms of concentration of airborne particles. Only particle populations having cumulative distributions based on threshold (lower limit) particle sizes ranging from 0.1 µm to 5 µm are considered for classification purposes.

Cleanroom Classification

ISO 14644 (@0,5µm)	Maximum concentration limits for particles equal to and larger than the considered size shown below (particles/m³)						Fed Std. 209 E (class) particles/ft³
	0,1 µm	0,2 µm	0,3 µm	0,5 µm	1,0 µm	5,0 µm	
ISO Class 1	10	2					-
ISO Class 2	100	24	10	4			-
ISO Class 3	1.000	237	102	35	8		1
ISO Class 4	10.000	2.370	1.020	352	83		10
ISO Class 5	100.000	23.700	10.200	3.520	832	29	100
ISO Class 6	1.000.000	237.000	102.000	35.200	8.320	293	1000
ISO Class 7				352.000	83.200	2.930	10000
ISO Class 8				3.520.000	832.000	29.300	100000

ULPATEK Leak and Efficiency Test Systems

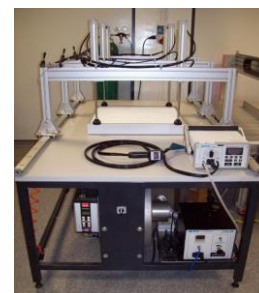
Ulpatek HEPA and ULPA filters are tested and certified individually according to European (CEN) and USA standards according to user requirements with the advanced technology. We would recommend the higher grades of prefilters to increase the service life of the Hepa and Ulpa filters.



Oil Thread Test / EN1822-4



Scan Test / EN1822-4



DOP Test / ISPE

AIR FILTER TECHNOLOGY (EN1822)

HEPA/EPA/ULPA CEILING FILTER

Specifications

- Optimized velocity distribution
- Low pressure drop, less energy consumption
- Guaranteed leak-free
- Available in all grades
- Various frame sizes with any dimensions

Filter Class; H13 - H14 - U15

Sealing Compound; Two component polyurethane

Frame type; Anodized, extruded aluminium

Faceguard; Aluminium sheet (powder coated)

Gasket; EPDM flat, EPDM flat continuous and PU foam

Media; High quality glass fibre

Separators; Hotmelt

Flammability Class; K2/F2 for normal Temp.

Max. Final Pressure Drop; 600 Pa

Max. Operating Temperature; 75°C



Filter Pleat	Pleat Height (PH-...)(mm)	Pleat Code	Filtration area per m² face area	Filter Class (EN1822)	Pack resistance (Pa) @ nominal air velocity (0,45m/s)	Available Frame Code for pleat	Available Frame Depth for pleat (mm)
	50	1	24,2	H13	100	AC, AS, AN, ASM, AD, AM, AF, AK, AL, AX	66, 69, 78, 89, 90, 100, 110, 117, 125, 150
			25,3	H14	125		
			26,9	U15	140		
	65	2	31,4	H13	85	AD, AM, AF, AK, AL, AX	90, 100, 110, 117, 125, 150
			32,8	H14	110		
	75	3	36,3	H13	75	AM, AF, AK, AL, AX	100, 110, 117, 125, 150
			37,9	H14	90		
	85	4	41,1	H13	70	AF, AK, AL, AX	110, 117, 125, 150
			43,0	H14	85		
	90	5	41,1	H13	70	AK, AL, AX	117, 125, 150
			43,0	H14	85		
	100	6	48,4	H13	65	AL, AX	125, 150
			50,5	H14	80		
	125	7	60,5	H13	55	AX	150
			63,2	H14	70		

* Other pleat heights are available for special applications.

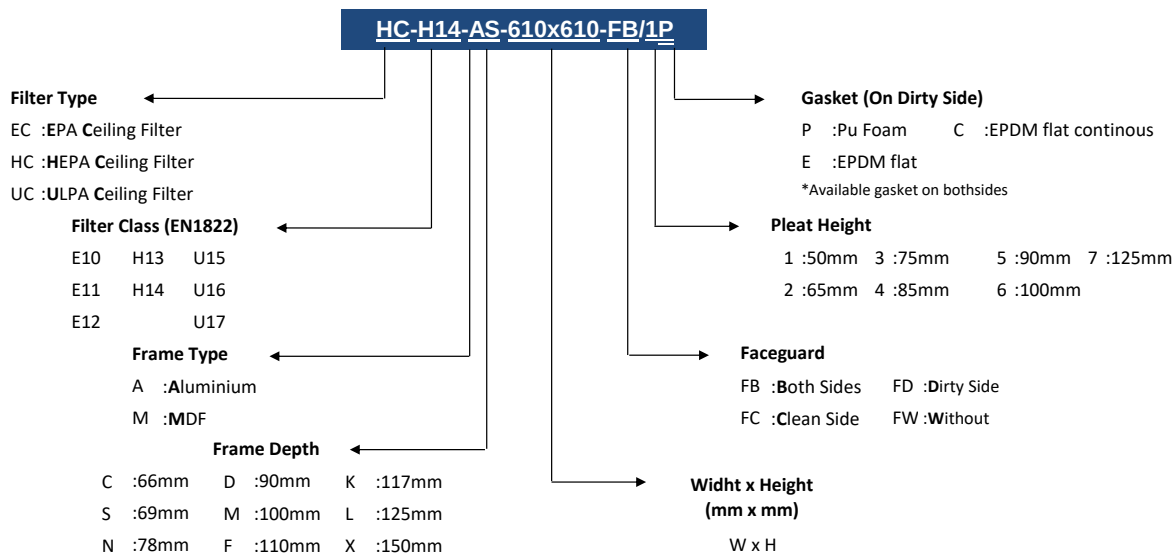
* Differential Pressure Tolerance ±10%

High-efficiency HEPA Ceiling filters protect people, equipment and processes from airborne particulate contamination. They are designed for clean room ceilings and cleanroom work tables requiring high or very high levels of air purity to provide laminar flow.

Applications: Industrial processes like microelectronics, medicine, pharma, the food industry, microbiology, chemistry, laboratories, hospital and hospital operating theatres, laminar flow boxes, fan filter units, nuclear energy and nuclear research.

Filtration area and pleat height designed with the optimum value are more important for performans of filters. The filters having high pleat height offer a good solution with lower operating costs and significantly reducing energy consumption.

HEPA and ULPA filters are tested and certified individually according to EN1822 with the advanced technology. We would recommend the higher grades of prefilters to increase the service life of the ceiling filters.



ADVANCED FILTRATION FOR A BETTER FUTURE!

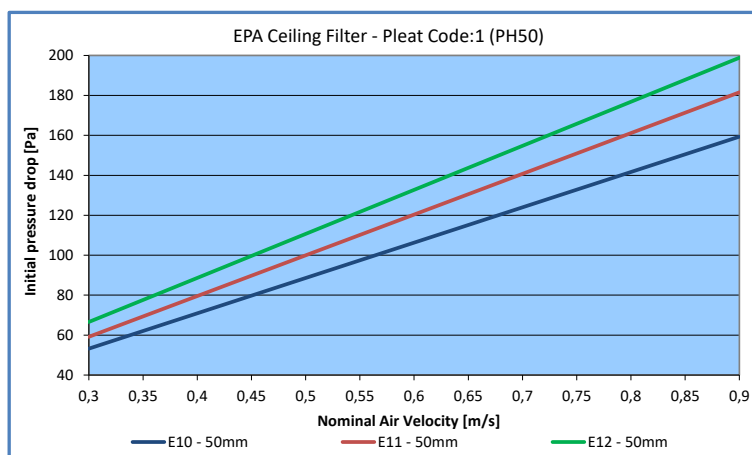
AIR FILTER TECHNOLOGY (EN1822)

EPA CEILING FILTER with Aluminium Frame

(AN;78mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
EC-E10-AN-305x305-FC/1P	E10	305x305x78	2,3	50	150	80
EC-E10-AN-305x610-FC/1P	E10	305x610x78	4,5	50	300	80
EC-E10-AN-457x457-FC/1P	E10	457x457x78	5,1	50	340	80
EC-E10-AN-610x610-FC/1P	E10	610x610x78	9,0	50	600	80
EC-E10-AN-610x762-FC/1P	E10	610x762x78	11,2	50	750	80
EC-E10-AN-610x915-FC/1P	E10	610x915x78	13,5	50	900	80
EC-E10-AN-610x1220-FC/1P	E10	610x1220x78	18,0	50	1200	80
EC-E11-AN-305x305-FC/1P	E11	305x305x78	2,3	50	150	90
EC-E11-AN-305x610-FC/1P	E11	305x610x78	4,5	50	300	90
EC-E11-AN-457x457-FC/1P	E11	457x457x78	5,1	50	340	90
EC-E11-AN-610x610-FC/1P	E11	610x610x78	9,0	50	600	90
EC-E11-AN-610x762-FC/1P	E11	610x762x78	11,2	50	750	90
EC-E11-AN-610x915-FC/1P	E11	610x915x78	13,5	50	900	90
EC-E11-AN-610x1220-FC/1P	E11	610x1220x78	18,0	50	1200	90
EC-E12-AN-305x305-FC/1P	E12	305x305x78	2,3	50	150	100
EC-E12-AN-305x610-FC/1P	E12	305x610x78	4,5	50	300	100
EC-E12-AN-457x457-FC/1P	E12	457x457x78	5,1	50	340	100
EC-E12-AN-610x610-FC/1P	E12	610x610x78	9,0	50	600	100
EC-E12-AN-610x762-FC/1P	E12	610x762x78	11,2	50	750	100
EC-E12-AN-610x915-FC/1P	E12	610x915x78	13,5	50	900	100
EC-E12-AN-610x1220-FC/1P	E12	610x1220x78	18,0	50	1200	100

* Other Dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

EC-E11-AN-610x610-FC/1P

Filter Model	Epa Ceiling	EC
Filter Class	E11 (EN1822)	E11
Frame Material	Aluminium	A
Filter Depth	78mm	N
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	On Clean Side	FC
Pleat Code	PH;50mm	1
Gasket type	PU	P



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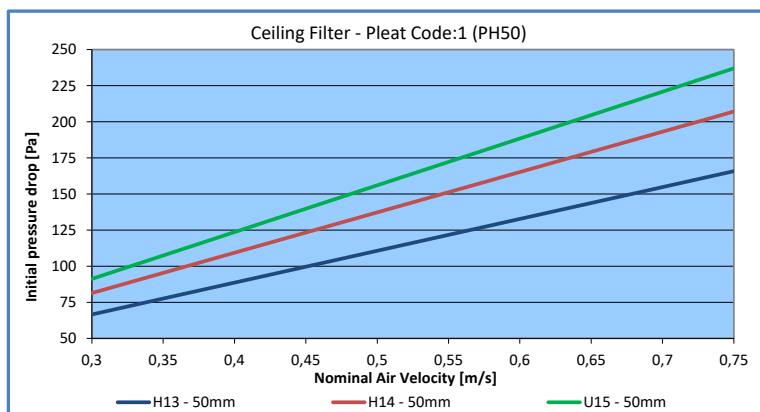
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AC;66mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AC-305x305-FB/1P	H13	305x305x66	2,3	50	150	100
HC-H13-AC-305x610-FB/1P	H13	305x610x66	4,5	50	300	100
HC-H13-AC-457x457-FB/1P	H13	457x457x66	5,1	50	340	100
HC-H13-AC-457x610-FB/1P	H13	457x610x66	6,7	50	450	100
HC-H13-AC-535x535-FB/1P	H13	535x535x66	6,9	50	465	100
HC-H13-AC-575x575-FB/1P	H13	575x575x66	8,0	50	535	100
HC-H13-AC-610x610-FB/1P	H13	610x610x66	9,0	50	600	100
HC-H13-AC-610x762-FB/1P	H13	610x762x66	11,2	50	750	100
HC-H13-AC-610x915-FB/1P	H13	610x915x66	13,5	50	900	100
HC-H13-AC-762x762-FB/1P	H13	762x762x66	14,0	50	940	100
HC-H13-AC-915x915-FB/1P	H13	915x915x66	20,3	50	1350	100
HC-H13-AC-610x1220-FB/1P	H13	610x1220x66	18,0	50	1200	100
HC-H13-AC-610x1525-FB/1P	H13	610x1525x66	22,5	50	1500	100
HC-H13-AC-610x1830-FB/1P	H13	610x1830x66	27,0	50	1800	100
HC-H14-AC-305x305-FB/1P	H14	305x305x66	2,4	50	150	125
HC-H14-AC-305x610-FB/1P	H14	305x610x66	4,7	50	300	125
HC-H14-AC-457x457-FB/1P	H14	457x457x66	5,3	50	340	125
HC-H14-AC-457x610-FB/1P	H14	457x610x66	7,0	50	450	125
HC-H14-AC-535x535-FB/1P	H14	535x535x66	7,2	50	465	125
HC-H14-AC-575x575-FB/1P	H14	575x575x66	8,4	50	535	125
HC-H14-AC-610x610-FB/1P	H14	610x610x66	9,4	50	600	125
HC-H14-AC-610x762-FB/1P	H14	610x762x66	11,7	50	750	125
HC-H14-AC-610x915-FB/1P	H14	610x915x66	14,1	50	900	125
HC-H14-AC-762x762-FB/1P	H14	762x762x66	14,7	50	940	125
HC-H14-AC-915x915-FB/1P	H14	915x915x66	21,2	50	1350	125
HC-H14-AC-610x1220-FB/1P	H14	610x1220x66	18,8	50	1200	125
HC-H14-AC-610x1525-FB/1P	H14	610x1525x66	23,5	50	1500	125
HC-H14-AC-610x1830-FB/1P	H14	610x1830x66	28,2	50	1800	125
UC-U15-AC-305x305-FB/1P	U15	305x305x66	2,5	50	150	140
UC-U15-AC-305x610-FB/1P	U15	305x610x66	5,0	50	300	140
UC-U15-AC-457x457-FB/1P	U15	457x457x66	5,6	50	340	140
UC-U15-AC-610x610-FB/1P	U15	610x610x66	10,0	50	600	140
UC-U15-AC-610x762-FB/1P	U15	610x762x66	12,5	50	750	140
UC-U15-AC-610x915-FB/1P	U15	610x915x66	15,0	50	900	140
UC-U15-AC-610x1220-FB/1P	U15	610x1220x66	20,0	50	1200	140

* Other Dimensions are available on request.



UC-U15-AC-610x610-FB/1P		
Filter Model	Ulpa Ceiling	UC
Filter Class	U15 (EN1822)	U15
Frame Material	Aluminium	A
Filter Depth	66mm	C
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;50mm	1
Gasket type	PU	P



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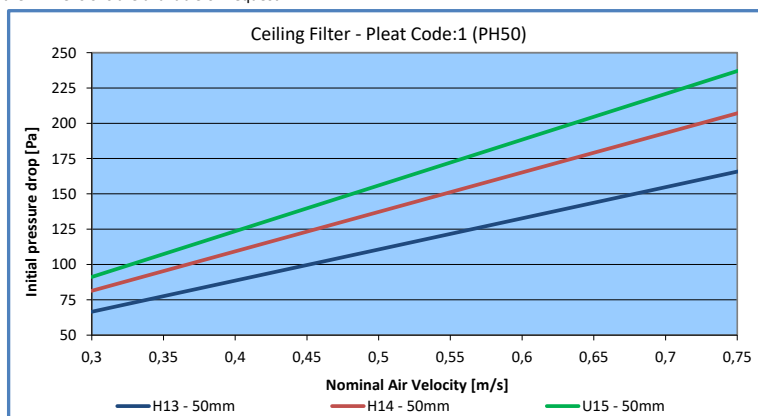
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AS;69mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AS-305x305-FB/1P	H13	305x305x69	2,3	50	150	100
HC-H13-AS-305x610-FB/1P	H13	305x610x69	4,5	50	300	100
HC-H13-AS-457x457-FB/1P	H13	457x457x69	5,1	50	340	100
HC-H13-AS-457x610-FB/1P	H13	457x610x69	6,7	50	450	100
HC-H13-AS-535x535-FB/1P	H13	535x535x69	6,9	50	465	100
HC-H13-AS-575x575-FB/1P	H13	575x575x69	8,0	50	535	100
HC-H13-AS-610x610-FB/1P	H13	610x610x69	9,0	50	600	100
HC-H13-AS-610x762-FB/1P	H13	610x762x69	11,2	50	745	100
HC-H13-AS-610x915-FB/1P	H13	610x915x69	13,5	50	900	100
HC-H13-AS-762x762-FB/1P	H13	762x762x69	14,0	50	940	100
HC-H13-AS-915x915-FB/1P	H13	915x915x69	20,3	50	1350	100
HC-H13-AS-610x1220-FB/1P	H13	610x1220x69	18,0	50	1200	100
HC-H13-AS-610x1525-FB/1P	H13	610x1525x69	22,5	50	1500	100
HC-H13-AS-610x1830-FB/1P	H13	610x1830x69	27,0	50	1800	100
HC-H14-AS-305x305-FB/1P	H14	305x305x69	2,4	50	150	125
HC-H14-AS-305x610-FB/1P	H14	305x610x69	4,7	50	300	125
HC-H14-AS-457x457-FB/1P	H14	457x457x69	5,3	50	340	125
HC-H14-AS-457x610-FB/1P	H14	457x610x69	7,0	50	450	125
HC-H14-AS-535x535-FB/1P	H14	535x535x69	7,2	50	465	125
HC-H14-AS-575x575-FB/1P	H14	575x575x69	8,4	50	535	125
HC-H14-AS-610x610-FB/1P	H14	610x610x69	9,4	50	600	125
HC-H14-AS-610x762-FB/1P	H14	610x762x69	11,7	50	745	125
HC-H14-AS-610x915-FB/1P	H14	610x915x69	14,1	50	900	125
HC-H14-AS-762x762-FB/1P	H14	762x762x69	14,7	50	940	125
HC-H14-AS-915x915-FB/1P	H14	915x915x69	21,2	50	1350	125
HC-H14-AS-610x1220-FB/1P	H14	610x1220x69	18,8	50	1200	125
HC-H14-AS-610x1525-FB/1P	H14	610x1525x69	23,5	50	1500	125
HC-H14-AS-610x1830-FB/1P	H14	610x1830x69	28,2	50	1800	125
UC-U15-AS-305x305-FB/1P	U15	305x305x69	2,5	50	150	140
UC-U15-AS-305x610-FB/1P	U15	305x610x69	5,0	50	300	140
UC-U15-AS-457x457-FB/1P	U15	457x457x69	5,6	50	340	140
UC-U15-AS-610x610-FB/1P	U15	610x610x69	10,0	50	600	140
UC-U15-AS-610x762-FB/1P	U15	610x762x69	12,5	50	750	140
UC-U15-AS-610x915-FB/1P	U15	610x915x69	15,0	50	900	140
UC-U15-AS-610x1220-FB/1P	U15	610x1220x69	20,0	50	1200	140

* Other Dimensions are available on request.



HC-H14-AS-610x610-FB/1P		
Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	69mm	S
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;50mm	1
Gasket type	PU	P



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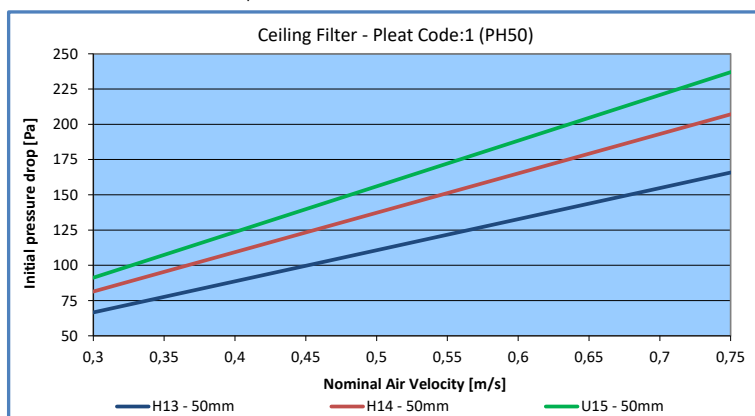
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AN;78mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AN-305x305-FC/1P	H13	305x305x78	2,3	50	150	100
HC-H13-AN-305x610-FC/1P	H13	305x610x78	4,5	50	300	100
HC-H13-AN-457x457-FC/1P	H13	457x457x78	5,1	50	340	100
HC-H13-AN-457x610-FC/1P	H13	457x610x78	6,7	50	450	100
HC-H13-AN-535x535-FC/1P	H13	535x535x78	6,9	50	465	100
HC-H13-AN-575x575-FC/1P	H13	575x575x78	8,0	50	535	100
HC-H13-AN-610x610-FC/1P	H13	610x610x78	9,0	50	600	100
HC-H13-AN-610x762-FC/1P	H13	610x762x78	11,2	50	750	100
HC-H13-AN-610x915-FC/1P	H13	610x915x78	13,5	50	900	100
HC-H13-AN-762x762-FC/1P	H13	762x762x78	14,0	50	940	100
HC-H13-AN-915x915-FC/1P	H13	915x915x78	20,3	50	1350	100
HC-H13-AN-610x1220-FC/1P	H13	610x1220x78	18,0	50	1200	100
HC-H13-AN-610x1525-FC/1P	H13	610x1525x78	22,5	50	1500	100
HC-H13-AN-610x1830-FC/1P	H13	610x1830x78	27,0	50	1800	100
HC-H14-AN-305x305-FC/1P	H14	305x305x78	2,4	50	150	125
HC-H14-AN-305x610-FC/1P	H14	305x610x78	4,7	50	300	125
HC-H14-AN-457x457-FC/1P	H14	457x457x78	5,3	50	340	125
HC-H14-AN-457x610-FC/1P	H14	457x610x78	7,0	50	450	125
HC-H14-AN-535x535-FC/1P	H14	535x535x78	7,2	50	465	125
HC-H14-AN-575x575-FC/1P	H14	575x575x78	8,4	50	535	125
HC-H14-AN-610x610-FC/1P	H14	610x610x78	9,4	50	600	125
HC-H14-AN-610x762-FC/1P	H14	610x762x78	11,7	50	750	125
HC-H14-AN-610x915-FC/1P	H14	610x915x78	14,1	50	900	125
HC-H14-AN-762x762-FC/1P	H14	762x762x78	14,7	50	940	125
HC-H14-AN-915x915-FC/1P	H14	915x915x78	21,2	50	1350	125
HC-H14-AN-610x1220-FC/1P	H14	610x1220x78	18,8	50	1200	125
HC-H14-AN-610x1525-FC/1P	H14	610x1525x78	23,5	50	1500	125
HC-H14-AN-610x1830-FC/1P	H14	610x1830x78	28,2	50	1800	125
UC-U15-AN-305x305-FC/1P	U15	305x305x78	2,5	50	150	140
UC-U15-AN-305x610-FC/1P	U15	305x610x78	5,0	50	300	140
UC-U15-AN-457x457-FC/1P	U15	457x457x78	5,6	50	340	140
UC-U15-AN-610x610-FC/1P	U15	610x610x78	10,0	50	600	140
UC-U15-AN-610x762-FC/1P	U15	610x762x78	12,5	50	750	140
UC-U15-AN-610x915-FC/1P	U15	610x915x78	15,0	50	900	140
UC-U15-AN-610x1220-FC/1P	U15	610x1220x78	20,0	50	1200	140

* Other Dimensions are available on request.



HC-H14-AN-610x610-FC/1P

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	78mm	N
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	On Clean Side	FC
Pleat Code	PH;50mm	1
Gasket type	PU	P



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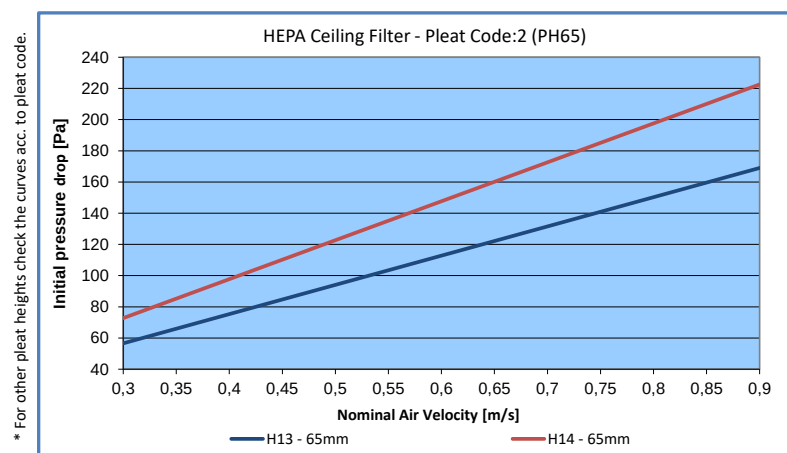
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AD;90mm - PH; 50mm & 65mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AD-305x305-FC/1P	H13	305x305x90	2,3	50	150	100
HC-H13-AD-305x610-FC/1P	H13	305x610x90	4,5	50	300	100
HC-H13-AD-457x457-FC/1P	H13	457x457x90	5,1	50	340	100
HC-H13-AD-610x610-FC/1P	H13	610x610x90	9,0	50	600	100
HC-H13-AD-610x762-FC/1P	H13	610x762x90	11,2	50	750	100
HC-H13-AD-610x915-FC/1P	H13	610x915x90	13,5	50	900	100
HC-H13-AD-610x1220-FC/1P	H13	610x1220x90	18,0	50	1200	100
HC-H14-AD-305x305-FC/1P	H14	305x305x90	2,4	50	150	125
HC-H14-AD-305x610-FC/1P	H14	305x610x90	4,7	50	300	125
HC-H14-AD-457x457-FC/1P	H14	457x457x90	5,3	50	340	125
HC-H14-AD-610x610-FC/1P	H14	610x610x90	9,4	50	600	125
HC-H14-AD-610x762-FC/1P	H14	610x762x90	11,7	50	750	125
HC-H14-AD-610x915-FC/1P	H14	610x915x90	14,1	50	900	125
HC-H14-AD-610x1220-FC/1P	H14	610x1220x90	18,8	50	1200	125
HC-H13-AD-305x305-FB/2P	H13	305x305x90	2,9	65	150	85
HC-H13-AD-305x610-FB/2P	H13	305x610x90	5,9	65	300	85
HC-H13-AD-457x457-FB/2P	H13	457x457x90	6,6	65	340	85
HC-H13-AD-610x610-FB/2P	H13	610x610x90	11,7	65	600	85
HC-H13-AD-610x762-FB/2P	H13	610x762x90	14,6	65	750	85
HC-H13-AD-610x915-FB/2P	H13	610x915x90	17,6	65	900	85
HC-H13-AD-610x1220-FB/2P	H13	610x1220x90	23,4	65	1200	85
HC-H14-AD-305x305-FB/2P	H14	305x305x90	3,1	65	150	110
HC-H14-AD-305x610-FB/2P	H14	305x610x90	6,1	65	300	110
HC-H14-AD-457x457-FB/2P	H14	457x457x90	6,9	65	340	110
HC-H14-AD-610x610-FB/2P	H14	610x610x90	12,2	65	600	110
HC-H14-AD-610x762-FB/2P	H14	610x762x90	15,3	65	750	110
HC-H14-AD-610x915-FB/2P	H14	610x915x90	18,3	65	900	110
HC-H14-AD-610x1220-FB/2P	H14	610x1220x90	24,4	65	1200	110

* Other Dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-AD-610x610-FB/2P

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	90mm	D
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;65mm	2
Gasket type	PU	P



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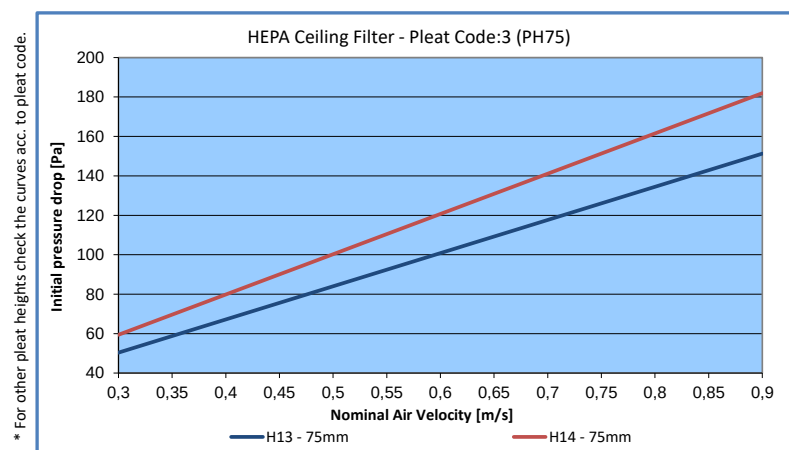
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AM;100mm - PH; 50mm & 75mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AM-305x305-FC/1P	H13	305x305x100	2,3	50	150	100
HC-H13-AM-305x610-FC/1P	H13	305x610x100	4,5	50	300	100
HC-H13-AM-457x457-FC/1P	H13	457x457x100	5,1	50	340	100
HC-H13-AM-610x610-FC/1P	H13	610x610x100	9,0	50	600	100
HC-H13-AM-610x762-FC/1P	H13	610x762x100	11,2	50	750	100
HC-H13-AM-610x915-FC/1P	H13	610x915x100	13,5	50	900	100
HC-H13-AM-610x1220-FC/1P	H13	610x1220x100	18,0	50	1200	100
HC-H14-AM-305x305-FC/1P	H14	305x305x100	2,4	50	150	125
HC-H14-AM-305x610-FC/1P	H14	305x610x100	4,7	50	300	125
HC-H14-AM-457x457-FC/1P	H14	457x457x100	5,3	50	340	125
HC-H14-AM-610x610-FC/1P	H14	610x610x100	9,4	50	600	125
HC-H14-AM-610x762-FC/1P	H14	610x762x100	11,7	50	750	125
HC-H14-AM-610x915-FC/1P	H14	610x915x100	14,1	50	900	125
HC-H14-AM-610x1220-FC/1P	H14	610x1220x100	18,8	50	1200	125
HC-H13-AM-305x305-FB/3P	H13	305x305x100	3,4	75	150	75
HC-H13-AM-305x610-FB/3P	H13	305x610x100	6,8	75	300	75
HC-H13-AM-457x457-FB/3P	H13	457x457x100	7,6	75	340	75
HC-H13-AM-610x610-FB/3P	H13	610x610x100	13,5	75	600	75
HC-H13-AM-610x762-FB/3P	H13	610x762x100	16,9	75	750	75
HC-H13-AM-610x915-FB/3P	H13	610x915x100	20,3	75	900	75
HC-H13-AM-610x1220-FB/3P	H13	610x1220x100	27,0	75	1200	75
HC-H14-AM-305x305-FB/3P	H14	305x305x100	3,5	75	150	90
HC-H14-AM-305x610-FB/3P	H14	305x610x100	7,1	75	300	90
HC-H14-AM-457x457-FB/3P	H14	457x457x100	7,9	75	340	90
HC-H14-AM-610x610-FB/3P	H14	610x610x100	14,1	75	600	90
HC-H14-AM-610x762-FB/3P	H14	610x762x100	17,6	75	750	90
HC-H14-AM-610x915-FB/3P	H14	610x915x100	21,2	75	900	90
HC-H14-AM-610x1220-FB/3P	H14	610x1220x100	28,2	75	1200	90

* Other Dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-AM-610x610-FB/3P

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	100mm	M
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;75mm	3
Gasket type	PU	P



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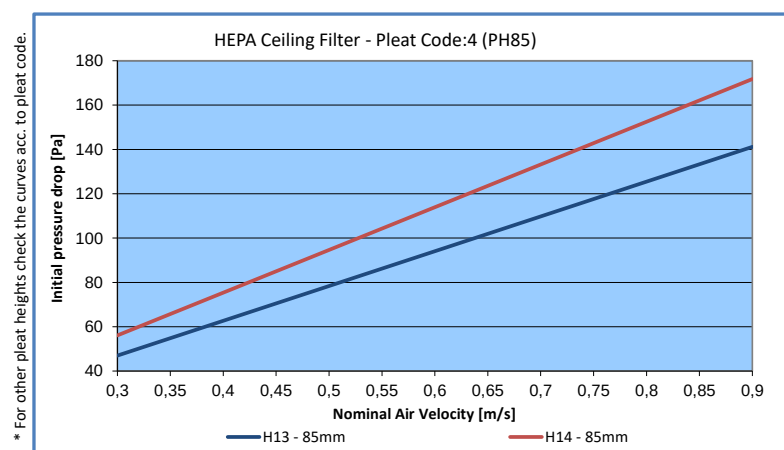
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AF;110mm - PH; 50mm & 85mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AF-305x305-FC/1P	H13	305x305x110	2,3	50	150	100
HC-H13-AF-305x610-FC/1P	H13	305x610x110	4,5	50	300	100
HC-H13-AF-457x457-FC/1P	H13	457x457x110	5,1	50	340	100
HC-H13-AF-610x610-FC/1P	H13	610x610x110	9,0	50	600	100
HC-H13-AF-610x762-FC/1P	H13	610x762x110	11,2	50	750	100
HC-H13-AF-610x915-FC/1P	H13	610x915x110	13,5	50	900	100
HC-H13-AF-610x1220-FC/1P	H13	610x1220x110	18,0	50	1200	100
HC-H14-AF-305x305-FC/1P	H14	305x305x110	2,4	50	150	125
HC-H14-AF-305x610-FC/1P	H14	305x610x110	4,7	50	300	125
HC-H14-AF-457x457-FC/1P	H14	457x457x110	5,3	50	340	125
HC-H14-AF-610x610-FC/1P	H14	610x610x110	9,4	50	600	125
HC-H14-AF-610x762-FC/1P	H14	610x762x110	11,7	50	750	125
HC-H14-AF-610x915-FC/1P	H14	610x915x110	14,1	50	900	125
HC-H14-AF-610x1220-FC/1P	H14	610x1220x110	18,8	50	1200	125
HC-H13-AF-305x305-FB/4P	H13	305x305x110	3,8	85	150	70
HC-H13-AF-305x610-FB/4P	H13	305x610x110	7,7	85	300	70
HC-H13-AF-457x457-FB/4P	H13	457x457x110	8,6	85	340	70
HC-H13-AF-610x610-FB/4P	H13	610x610x110	15,3	85	600	70
HC-H13-AF-610x762-FB/4P	H13	610x762x110	19,1	85	750	70
HC-H13-AF-610x915-FB/4P	H13	610x915x110	23,0	85	900	70
HC-H13-AF-610x1220-FB/4P	H13	610x1220x110	30,6	85	1200	70
HC-H14-AF-305x305-FB/4P	H14	305x305x110	4,0	85	150	85
HC-H14-AF-305x610-FB/4P	H14	305x610x110	8,0	85	300	85
HC-H14-AF-457x457-FB/4P	H14	457x457x110	9,0	85	340	85
HC-H14-AF-610x610-FB/4P	H14	610x610x110	16,0	85	600	85
HC-H14-AF-610x762-FB/4P	H14	610x762x110	20,0	85	750	85
HC-H14-AF-610x915-FB/4P	H14	610x915x110	24,0	85	900	85
HC-H14-AF-610x1220-FB/4P	H14	610x1220x110	32,0	85	1200	85

* Other Dimensions are available on request.



HC-H14-AF-610x610-FB/4P		
Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	110mm	FB
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;85mm	4
Gasket type	PU	P



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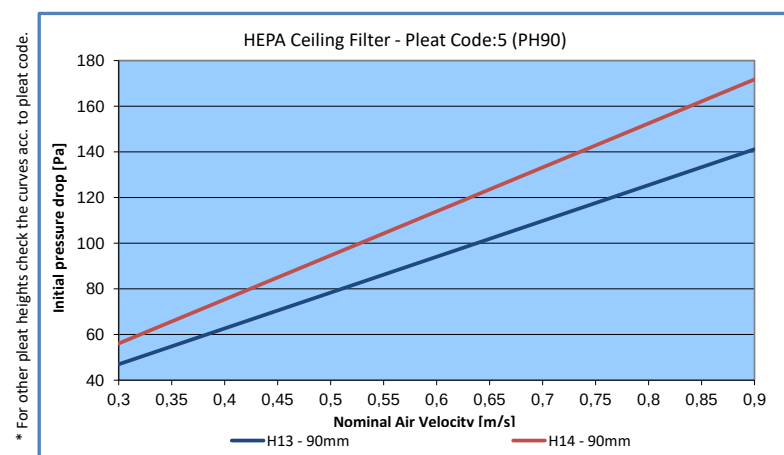
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AK;117mm - PH; 50mm & 90mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AK-305x305-FC/1P	H13	305x305x117	2,3	50	150	100
HC-H13-AK-305x610-FC/1P	H13	305x610x117	4,5	50	300	100
HC-H13-AK-457x457-FC/1P	H13	457x457x117	5,1	50	340	100
HC-H13-AK-610x610-FC/1P	H13	610x610x117	9,0	50	600	100
HC-H13-AK-610x762-FC/1P	H13	610x762x117	11,2	50	750	100
HC-H13-AK-610x915-FC/1P	H13	610x915x117	13,5	50	900	100
HC-H13-AK-610x1220-FC/1P	H13	610x1220x117	18,0	50	1200	100
HC-H14-AK-305x305-FC/1P	H14	305x305x117	2,4	50	150	125
HC-H14-AK-305x610-FC/1P	H14	305x610x117	4,7	50	300	125
HC-H14-AK-457x457-FC/1P	H14	457x457x117	5,3	50	340	125
HC-H14-AK-610x610-FC/1P	H14	610x610x117	9,4	50	600	125
HC-H14-AK-610x762-FC/1P	H14	610x762x117	11,7	50	750	125
HC-H14-AK-610x915-FC/1P	H14	610x915x117	14,1	50	900	125
HC-H14-AK-610x1220-FC/1P	H14	610x1220x117	18,8	50	1200	125
HC-H13-AK-305x305-FB/5P	H13	305x305x117	3,8	90	150	70
HC-H13-AK-305x610-FB/5P	H13	305x610x117	7,7	90	300	70
HC-H13-AK-457x457-FB/5P	H13	457x457x117	8,6	90	340	70
HC-H13-AK-610x610-FB/5P	H13	610x610x117	15,3	90	600	70
HC-H13-AK-610x762-FB/5P	H13	610x762x117	19,1	90	750	70
HC-H13-AK-610x915-FB/5P	H13	610x915x117	23,0	90	900	70
HC-H13-AK-610x1220-FB/5P	H13	610x1220x117	30,6	90	1200	70
HC-H14-AK-305x305-FB/5P	H14	305x305x117	4,0	90	150	85
HC-H14-AK-305x610-FB/5P	H14	305x610x117	8,0	90	300	85
HC-H14-AK-457x457-FB/5P	H14	457x457x117	9,0	90	340	85
HC-H14-AK-610x610-FB/5P	H14	610x610x117	16,0	90	600	85
HC-H14-AK-610x762-FB/5P	H14	610x762x117	20,0	90	750	85
HC-H14-AK-610x915-FB/5P	H14	610x915x117	24,0	90	900	85
HC-H14-AK-610x1220-FB/5P	H14	610x1220x117	32,0	90	1200	85

* Other Dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-AK-610x610-FB/5P

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	117mm	K
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;90mm	5
Gasket type	PU	P



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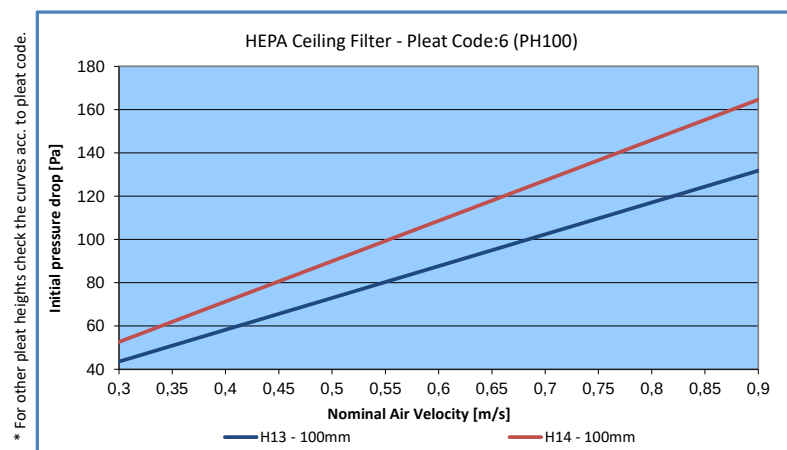
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AL;125mm - PH; 50mm & 100mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AL-305x305-FC/1P	H13	305x305x125	2,3	50	150	100
HC-H13-AL-305x610-FC/1P	H13	305x610x125	4,5	50	300	100
HC-H13-AL-457x457-FC/1P	H13	457x457x125	5,1	50	340	100
HC-H13-AL-610x610-FC/1P	H13	610x610x125	9,0	50	600	100
HC-H13-AL-610x762-FC/1P	H13	610x762x125	11,2	50	750	100
HC-H13-AL-610x915-FC/1P	H13	610x915x125	13,5	50	900	100
HC-H13-AL-610x1220-FC/1P	H13	610x1220x125	18,0	50	1200	100
HC-H14-AL-305x305-FC/1P	H14	305x305x125	2,4	50	150	125
HC-H14-AL-305x610-FC/1P	H14	305x610x125	4,7	50	300	125
HC-H14-AL-457x457-FC/1P	H14	457x457x125	5,3	50	340	125
HC-H14-AL-610x610-FC/1P	H14	610x610x125	9,4	50	600	125
HC-H14-AL-610x762-FC/1P	H14	610x762x125	11,7	50	750	125
HC-H14-AL-610x915-FC/1P	H14	610x915x125	14,1	50	900	125
HC-H14-AL-610x1220-FC/1P	H14	610x1220x125	18,8	50	1200	125
HC-H13-AL-305x305-FB/6P	H13	305x305x125	4,5	100	150	65
HC-H13-AL-305x610-FB/6P	H13	305x610x125	9,0	100	300	65
HC-H13-AL-457x457-FB/6P	H13	457x457x125	10,1	100	340	65
HC-H13-AL-610x610-FB/6P	H13	610x610x125	18,0	100	600	65
HC-H13-AL-610x762-FB/6P	H13	610x762x125	22,5	100	750	65
HC-H13-AL-610x915-FB/6P	H13	610x915x125	27,0	100	900	65
HC-H13-AL-610x1220-FB/6P	H13	610x1220x125	36,0	100	1200	65
HC-H14-AL-305x305-FB/6P	H14	305x305x125	4,7	100	150	80
HC-H14-AL-305x610-FB/6P	H14	305x610x125	9,4	100	300	80
HC-H14-AL-457x457-FB/6P	H14	457x457x125	10,6	100	340	80
HC-H14-AL-610x610-FB/6P	H14	610x610x125	18,8	100	600	80
HC-H14-AL-610x762-FB/6P	H14	610x762x125	23,5	100	750	80
HC-H14-AL-610x915-FB/6P	H14	610x915x125	28,2	100	900	80
HC-H14-AL-610x1220-FB/6P	H14	610x1220x125	37,6	100	1200	80

* Other Dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-AL-610x610-FB/6P

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	125mm	L
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;100mm	6
Gasket type	PU	P



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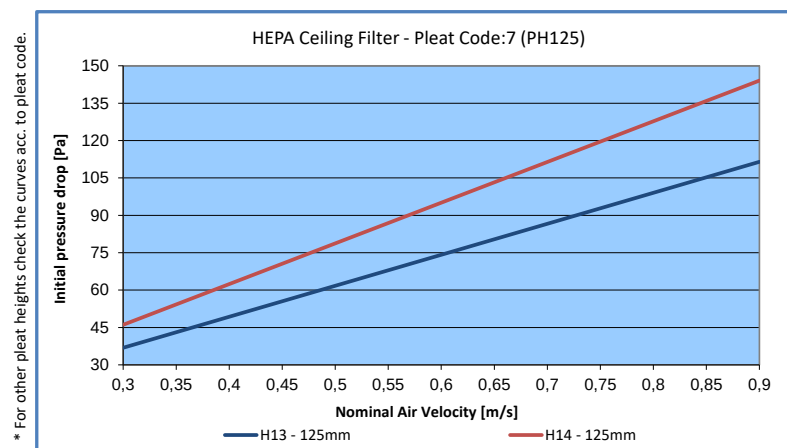
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

(AX;150mm - PH; 50mm & 125mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AX-305x305-FC/1P	H13	305x305x150	2,3	50	150	100
HC-H13-AX-305x610-FC/1P	H13	305x610x150	4,5	50	300	100
HC-H13-AX-457x457-FC/1P	H13	457x457x150	5,1	50	340	100
HC-H13-AX-610x610-FC/1P	H13	610x610x150	9,0	50	600	100
HC-H13-AX-610x762-FC/1P	H13	610x762x150	11,2	50	750	100
HC-H13-AX-610x915-FC/1P	H13	610x915x150	13,5	50	900	100
HC-H13-AX-610x1220-FC/1P	H13	610x1220x150	18,0	50	1200	100
HC-H14-AX-305x305-FC/1P	H14	305x305x150	2,4	50	150	125
HC-H14-AX-305x610-FC/1P	H14	305x610x150	4,7	50	300	125
HC-H14-AX-457x457-FC/1P	H14	457x457x150	5,3	50	340	125
HC-H14-AX-610x610-FC/1P	H14	610x610x150	9,4	50	600	125
HC-H14-AX-610x762-FC/1P	H14	610x762x150	11,7	50	750	125
HC-H14-AX-610x915-FC/1P	H14	610x915x150	14,1	50	900	125
HC-H14-AX-610x1220-FC/1P	H14	610x1220x150	18,8	50	1200	125
HC-H13-AX-305x305-FB/7P	H13	305x305x150	5,6	125	150	55
HC-H13-AX-305x610-FB/7P	H13	305x610x150	11,3	125	300	55
HC-H13-AX-457x457-FB/7P	H13	457x457x150	12,6	125	340	55
HC-H13-AX-610x610-FB/7P	H13	610x610x150	22,5	125	600	55
HC-H13-AX-610x762-FB/7P	H13	610x762x150	28,1	125	750	55
HC-H13-AX-610x915-FB/7P	H13	610x915x150	33,8	125	900	55
HC-H13-AX-610x1220-FB/7P	H13	610x1220x150	45,0	125	1200	55
HC-H14-AX-305x305-FB/7P	H14	305x305x150	5,9	125	150	70
HC-H14-AX-305x610-FB/7P	H14	305x610x150	11,8	125	300	70
HC-H14-AX-457x457-FB/7P	H14	457x457x150	13,2	125	340	70
HC-H14-AX-610x610-FB/7P	H14	610x610x150	23,5	125	600	70
HC-H14-AX-610x762-FB/7P	H14	610x762x150	29,4	125	750	70
HC-H14-AX-610x915-FB/7P	H14	610x915x150	35,3	125	900	70
HC-H14-AX-610x1220-FB/7P	H14	610x1220x150	47,0	125	1200	70

* Other Dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-AX-610x610-FB/7P

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	150mm	X
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;125mm	7
Gasket type	PU	P



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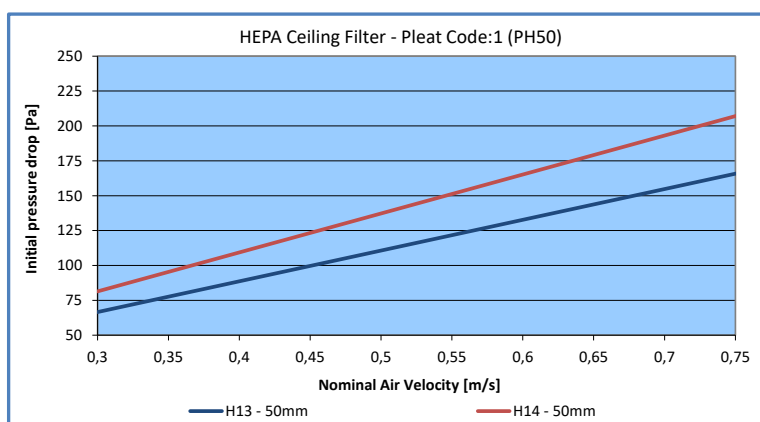
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with MDF Frame

(MN;78mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-MN-305x305-FW/1P	H13	305x305x78	2,3	50	150	100
HC-H13-MN-305x610-FW/1P	H13	305x610x78	4,5	50	300	100
HC-H13-MN-457x457-FW/1P	H13	457x457x78	5,1	50	340	100
HC-H13-MN-457x610-FW/1P	H13	457x610x78	6,7	50	450	100
HC-H13-MN-535x535-FW/1P	H13	535x535x78	6,9	50	465	100
HC-H13-MN-575x575-FW/1P	H13	575x575x78	8,0	50	535	100
HC-H13-MN-610x610-FW/1P	H13	610x610x78	9,0	50	600	100
HC-H13-MN-610x762-FW/1P	H13	610x762x78	11,2	50	750	100
HC-H13-MN-610x915-FW/1P	H13	610x915x78	13,5	50	900	100
HC-H13-MN-762x762-FW/1P	H13	762x762x78	14,0	50	940	100
HC-H13-MN-915x915-FW/1P	H13	915x915x78	20,3	50	1350	100
HC-H13-MN-610x1220-FW/1P	H13	610x1220x78	18,0	50	1200	100
HC-H13-MN-610x1525-FW/1P	H13	610x1525x78	22,5	50	1500	100
HC-H13-MN-610x1830-FW/1P	H13	610x1830x78	27,0	50	1800	100
HC-H14-MN-305x305-FW/1P	H14	305x305x78	2,4	50	150	125
HC-H14-MN-305x610-FW/1P	H14	305x610x78	4,7	50	300	125
HC-H14-MN-457x457-FW/1P	H14	457x457x78	5,3	50	340	125
HC-H14-MN-457x610-FW/1P	H14	457x610x78	7,0	50	450	125
HC-H14-MN-535x535-FW/1P	H14	535x535x78	7,2	50	465	125
HC-H14-MN-575x575-FW/1P	H14	575x575x78	8,4	50	535	125
HC-H14-MN-610x610-FW/1P	H14	610x610x78	9,4	50	600	125
HC-H14-MN-610x762-FW/1P	H14	610x762x78	11,7	50	750	125
HC-H14-MN-610x915-FW/1P	H14	610x915x78	14,1	50	900	125
HC-H14-MN-762x762-FW/1P	H14	762x762x78	14,7	50	940	125
HC-H14-MN-915x915-FW/1P	H14	915x915x78	21,2	50	1350	125
HC-H14-MN-610x1220-FW/1P	H14	610x1220x78	18,8	50	1200	125
HC-H14-MN-610x1525-FW/1P	H14	610x1525x78	23,5	50	1500	125
HC-H14-MN-610x1830-FW/1P	H14	610x1830x78	28,2	50	1800	125

* Other Dimensions are available on request.



HC-H13-MN-610x610-FW/1P		
Filter Model	Hepa Ceiling	HC
Filter Class	H13 (EN1822)	H13
Frame Material	MDF	M
Filter Depth	78mm	N
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Without	FW
Pleat Code	PH;50mm	1
Gasket type	PU	P



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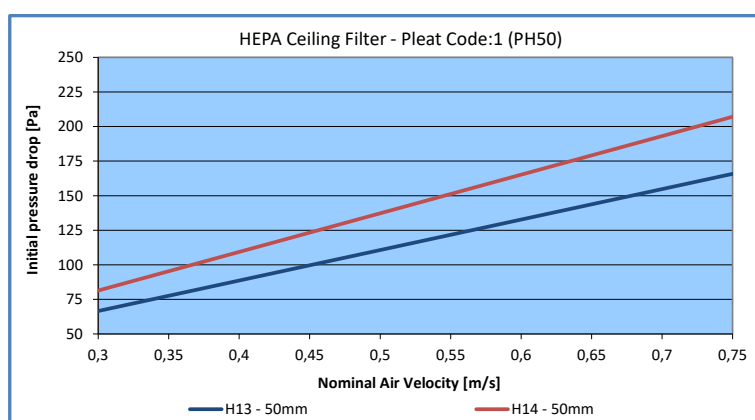
AIR FILTER TECHNOLOGY (EN1822)

HEPA CEILING FILTER with MDF Frame

(MX;150mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-MX-305x305-FW/1P	H13	305x305x150	2,3	50	150	100
HC-H13-MX-305x610-FW/1P	H13	305x610x150	4,5	50	300	100
HC-H13-MX-457x457-FW/1P	H13	457x457x150	5,1	50	340	100
HC-H13-MX-457x610-FW/1P	H13	457x610x150	6,7	50	450	100
HC-H13-MX-535x535-FW/1P	H13	535x535x150	6,9	50	465	100
HC-H13-MX-575x575-FW/1P	H13	575x575x150	8,0	50	535	100
HC-H13-MX-610x610-FW/1P	H13	610x610x150	9,0	50	600	100
HC-H13-MX-610x762-FW/1P	H13	610x762x150	11,2	50	750	100
HC-H13-MX-610x915-FW/1P	H13	610x915x150	13,5	50	900	100
HC-H13-MX-762x762-FW/1P	H13	762x762x150	14,0	50	940	100
HC-H13-MX-915x915-FW/1P	H13	915x915x150	20,3	50	1350	100
HC-H13-MX-610x1220-FW/1P	H13	610x1220x150	18,0	50	1200	100
HC-H13-MX-610x1525-FW/1P	H13	610x1525x150	22,5	50	1500	100
HC-H13-MX-610x1830-FW/1P	H13	610x1830x150	27,0	50	1800	100
HC-H14-MX-305x305-FW/1P	H14	305x305x150	2,4	50	150	125
HC-H14-MX-305x610-FW/1P	H14	305x610x150	4,7	50	300	125
HC-H14-MX-457x457-FW/1P	H14	457x457x150	5,3	50	340	125
HC-H14-MX-457x610-FW/1P	H14	457x610x150	7,0	50	450	125
HC-H14-MX-535x535-FW/1P	H14	535x535x150	7,2	50	465	125
HC-H14-MX-575x575-FW/1P	H14	575x575x150	8,4	50	535	125
HC-H14-MX-610x610-FW/1P	H14	610x610x150	9,4	50	600	125
HC-H14-MX-610x762-FW/1P	H14	610x762x150	11,7	50	750	125
HC-H14-MX-610x915-FW/1P	H14	610x915x150	14,1	50	900	125
HC-H14-MX-762x762-FW/1P	H14	762x762x150	14,7	50	940	125
HC-H14-MX-915x915-FW/1P	H14	915x915x150	21,2	50	1350	125
HC-H14-MX-610x1220-FW/1P	H14	610x1220x150	18,8	50	1200	125
HC-H14-MX-610x1525-FW/1P	H14	610x1525x150	23,5	50	1500	125
HC-H14-MX-610x1830-FW/1P	H14	610x1830x150	28,2	50	1800	125

* Other Dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H13-MX-610x610-FW/1P		
Filter Model	Hepa Ceiling	HC
Filter Class	H13 (EN1822)	H13
Frame Material	MDF	M
Filter Depth	150mm	X
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Without	FW
Pleat Code	PH;50mm	1
Gasket type	PU	P



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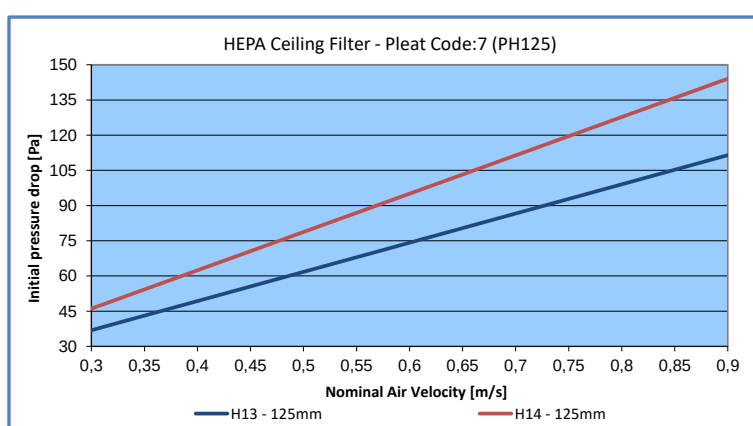
AIR FILTER TECHNOLOGY (EN1822)

HEPA CEILING FILTER with MDF Frame

(MX;150mm - PH;125mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-MX-305x305-FW/7P	H13	305x305x150	4,5	125	150	65
HC-H13-MX-305x610-FW/7P	H13	305x610x150	9,0	125	300	65
HC-H13-MX-457x457-FW/7P	H13	457x457x150	10,1	125	340	65
HC-H13-MX-457x610-FW/7P	H13	457x610x150	13,5	125	450	65
HC-H13-MX-535x535-FW/7P	H13	535x535x150	13,9	125	465	65
HC-H13-MX-575x575-FW/7P	H13	575x575x150	16,0	125	535	65
HC-H13-MX-610x610-FW/7P	H13	610x610x150	18,0	125	600	65
HC-H13-MX-610x762-FW/7P	H13	610x762x150	22,5	125	750	65
HC-H13-MX-610x915-FW/7P	H13	610x915x150	27,0	125	900	65
HC-H13-MX-762x762-FW/7P	H13	762x762x150	28,1	125	940	65
HC-H13-MX-915x915-FW/7P	H13	915x915x150	40,5	125	1350	65
HC-H13-MX-610x1220-FW/7P	H13	610x1220x150	36,0	125	1200	65
HC-H13-MX-610x1525-FW/7P	H13	610x1525x150	45,0	125	1500	65
HC-H13-MX-610x1830-FW/7P	H13	610x1830x150	54,0	125	1800	65
HC-H14-MX-305x305-FW/7P	H14	305x305x150	4,7	125	150	80
HC-H14-MX-305x610-FW/7P	H14	305x610x150	9,4	125	300	80
HC-H14-MX-457x457-FW/7P	H14	457x457x150	10,6	125	340	80
HC-H14-MX-457x610-FW/7P	H14	457x610x150	14,1	125	450	80
HC-H14-MX-535x535-FW/7P	H14	535x535x150	14,5	125	465	80
HC-H14-MX-575x575-FW/7P	H14	575x575x150	16,7	125	535	80
HC-H14-MX-610x610-FW/7P	H14	610x610x150	18,8	125	600	80
HC-H14-MX-610x762-FW/7P	H14	610x762x150	23,5	125	750	80
HC-H14-MX-610x915-FW/7P	H14	610x915x150	28,2	125	900	80
HC-H14-MX-762x762-FW/7P	H14	762x762x150	29,3	125	940	80
HC-H14-MX-915x915-FW/7P	H14	915x915x150	42,3	125	1350	80
HC-H14-MX-610x1220-FW/7P	H14	610x1220x150	37,6	125	1200	80
HC-H14-MX-610x1525-FW/7P	H14	610x1525x150	47,0	125	1500	80
HC-H14-MX-610x1830-FW/7P	H14	610x1830x150	56,4	125	1800	80

* Other Dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H13-MX-610x610-FW/7P

Filter Model	Hepa Ceiling	HC
Filter Class	H13 (EN1822)	H13
Frame Material	MDF	M
Filter Depth	150mm	X
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Without	FW
Pleat Code	PH;125mm	7
Gasket type	PU	P



ADVANCED FILTRATION FOR A BETTER FUTURE!

AIR FILTER TECHNOLOGY (EN1822)

GEL TYPE HEPA/ULPA CEILING FILTER with Aluminium Frame

Specifications

- Optimized velocity distribution
- Low pressure drop, less energy consumption
- Guaranteed leak-free
- Available in all grades
- Polyurethane Gel gasket
- Various frame sizes with any dimensions
- Suitable for knife edge frame systems
- Excellent sealing



Filter Class; H13 - H14 - U15

Sealing Compound; Two component polyurethane

Frame type; Anodized, extruded aluminium

Faceguard; Aluminium sheet, powder coated

Gasket; GEL

Media; High quality glass fibre

Separators; Hotmelt

Flammability Class; K2/F2 for normal Temp.

Max. Final Pressure Drop; 600 Pa

Max. Operating Temperature; 75°C

Filter Pleat	Pleat Height (PH-...)(mm)	Pleat Code	Filtration area per m ² face area	Filter Class (EN1822)	Pack resistance @ nominal air velocity (0,45m/s)	Available Frame Code for pleat	Available Frame Depth for pleat (mm)
	42	N	24,2	H13	100	ANJ, AJ, AMJ, ALJ	80, 91, 104, 128
			25,3	H14	125		
			26,9	U15	140		
	55	J	28,8	H13	90	AJ, AMJ, ALJ	91, 104, 128
			30,4	H14	115		
			32,2	U15	130		
	68	M	33,4	H13	85	AMJ, ALJ	104, 128
			35,2	H14	100		
			37,6	U15	115		
	92	L	48,4	H13	65	ALJ	128
			50,5	H14	80		
			53,7	U15	100		

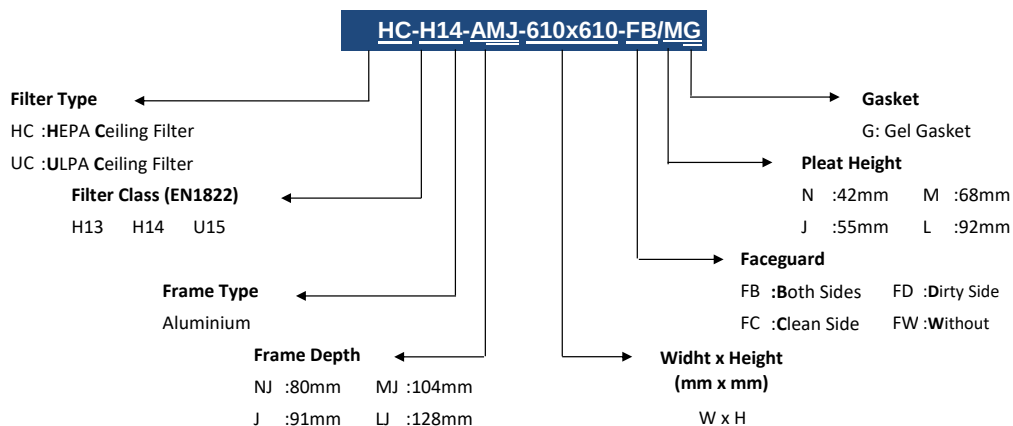
* Other pleat heights are available for special applications.

* Differential Pressure Tolerance $\pm 10\%$

High-efficiency HEPA Ceiling Gel Type filters protect people, equipment and processes from airborne particulate contamination. Gel Type HEPA Ceiling filters are used in air ventilation and air conditioning plants requiring high or very high levels of air purity. They are designed for clean room ceilings and clean work tables to provide laminar flow.

Applications: Industrial processes like microelectronics, medicine, pharma, the food industry, microbiology, chemistry, laboratories, hospital and hospital operating theatres, laminar flow boxes, fan filter units, nuclear energy and nuclear research

Filtration area and pleat height designed with the optimum value are more important for performans of filters. The filters having high pleat height offer a good solution with lower operating costs and significantly reducing energy consumption.



ADVANCED FILTRATION FOR A BETTER FUTURE!

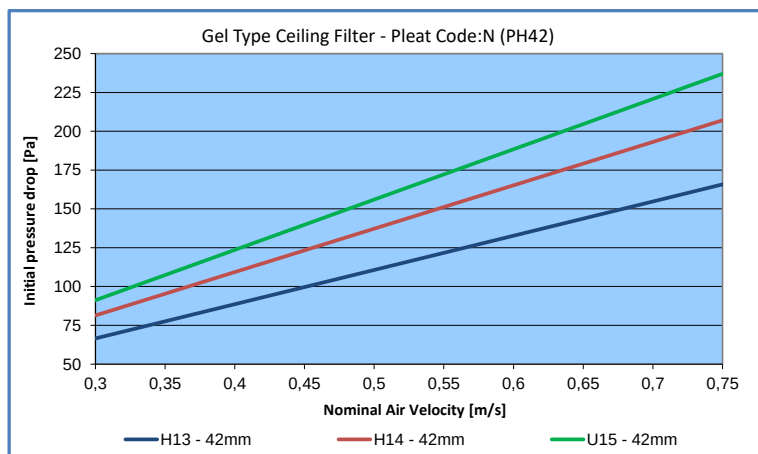
AIR FILTER TECHNOLOGY (EN1822)

GEL TYPE HEPA/ULPA CEILING FILTER with Aluminium Frame

(ANJ;80mm - PH;42mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-ANJ-305x305-FB/NG	H13	305x305x80	2,3	42	150	100
HC-H13-ANJ-305x610-FB/NG	H13	305x610x80	4,5	42	300	100
HC-H13-ANJ-457x457-FB/NG	H13	457x457x80	5,1	42	340	100
HC-H13-ANJ-610x610-FB/NG	H13	610x610x80	9,0	42	600	100
HC-H13-ANJ-610x762-FB/NG	H13	610x762x80	11,2	42	750	100
HC-H13-ANJ-610x915-FB/NG	H13	610x915x80	13,5	42	900	100
HC-H13-ANJ-610x1220-FB/NG	H13	610x1220x80	18,0	42	1200	100
HC-H14-ANJ-305x305-FB/NG	H14	305x305x80	2,4	42	150	125
HC-H14-ANJ-305x610-FB/NG	H14	305x610x80	4,7	42	300	125
HC-H14-ANJ-457x457-FB/NG	H14	457x457x80	5,3	42	340	125
HC-H14-ANJ-610x610-FB/NG	H14	610x610x80	9,4	42	600	125
HC-H14-ANJ-610x762-FB/NG	H14	610x762x80	11,7	42	750	125
HC-H14-ANJ-610x915-FB/NG	H14	610x915x80	14,1	42	900	125
HC-H14-ANJ-610x1220-FB/NG	H14	610x1220x80	18,8	42	1200	125
UC-U15-ANJ-305x305-FB/NG	U15	305x305x80	2,5	42	150	140
UC-U15-ANJ-305x610-FB/NG	U15	305x610x80	5,0	42	300	140
UC-U15-ANJ-457x457-FB/NG	U15	457x457x80	5,6	42	340	140
UC-U15-ANJ-610x610-FB/NG	U15	610x610x80	10,0	42	600	140
UC-U15-ANJ-610x762-FB/NG	U15	610x762x80	12,5	42	750	140
UC-U15-ANJ-610x915-FB/NG	U15	610x915x80	15,0	42	900	140
UC-U15-ANJ-610x1220-FB/NG	U15	610x1220x80	20,0	42	1200	140

Other dimensions are available on request.



HC-H14-ANJ-610x610-FB/NG

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	80mm	NJ
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Both Sides	FB
Pleat Code	PH;42mm	N
Gasket type	Gel	G



ADVANCED FILTRATION FOR A BETTER FUTURE!

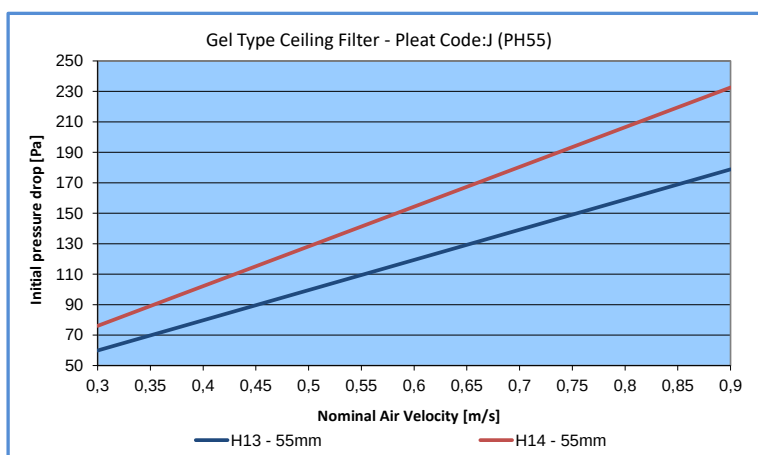
AIR FILTER TECHNOLOGY (EN1822)

GEL TYPE HEPA/ULPA CEILING FILTER with Aluminium Frame

(AJ;91mm - PH;55mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AJ-305x305-FB/JG	H13	305x305x91	2,7	55	150	90
HC-H13-AJ-305x610-FB/JG	H13	305x610x91	5,4	55	300	90
HC-H13-AJ-457x457-FB/JG	H13	457x457x91	6,0	55	340	90
HC-H13-AJ-610x610-FB/JG	H13	610x610x91	10,7	55	600	90
HC-H13-AJ-610x762-FB/JG	H13	610x762x91	13,4	55	750	90
HC-H13-AJ-610x915-FB/JG	H13	610x915x91	16,1	55	900	90
HC-H13-AJ-610x1220-FB/JG	H13	610x1220x91	21,4	55	1200	90
HC-H14-AJ-305x305-FB/JG	H14	305x305x91	2,8	55	150	115
HC-H14-AJ-305x610-FB/JG	H14	305x610x91	5,6	55	300	115
HC-H14-AJ-457x457-FB/JG	H14	457x457x91	6,3	55	340	115
HC-H14-AJ-610x610-FB/JG	H14	610x610x91	11,3	55	600	115
HC-H14-AJ-610x762-FB/JG	H14	610x762x91	14,1	55	750	115
HC-H14-AJ-610x915-FB/JG	H14	610x915x91	16,9	55	900	115
HC-H14-AJ-610x1220-FB/JG	H14	610x1220x91	22,5	55	1200	115
UC-U15-AJ-305x305-FB/JG	U15	305x305x91	3,0	55	150	125
UC-U15-AJ-305x610-FB/JG	U15	305x610x91	6,0	55	300	125
UC-U15-AJ-457x457-FB/JG	U15	457x457x91	6,7	55	340	125
UC-U15-AJ-610x610-FB/JG	U15	610x610x91	12,0	55	600	125
UC-U15-AJ-610x762-FB/JG	U15	610x762x91	15,0	55	750	125
UC-U15-AJ-610x915-FB/JG	U15	610x915x91	18,0	55	900	125
UC-U15-AJ-610x1220-FB/JG	U15	610x1220x91	24,0	55	1200	125

Other dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-AJ-610x610-FB/JG

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	91mm	J
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Both Sides	FB
Pleat Code	PH;55mm	J
Gasket type	Gel	G



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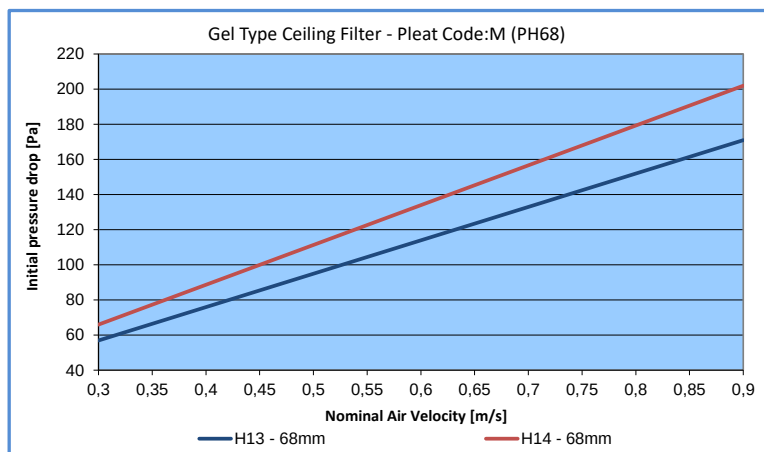
AIR FILTER TECHNOLOGY (EN1822)

GEL TYPE HEPA/ULPA CEILING FILTER with Aluminium Frame

(AMJ;104mm - PH;68mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AMJ-305x305-FB/MG	H13	305x305x104	3,1	68	150	85
HC-H13-AMJ-305x610-FB/MG	H13	305x610x104	6,2	68	300	85
HC-H13-AMJ-457x457-FB/MG	H13	457x457x104	7,0	68	340	85
HC-H13-AMJ-610x610-FB/MG	H13	610x610x104	12,4	68	600	85
HC-H13-AMJ-610x762-FB/MG	H13	610x762x104	15,5	68	750	85
HC-H13-AMJ-610x915-FB/MG	H13	610x915x104	18,6	68	900	85
HC-H13-AMJ-610x1220-FB/MG	H13	610x1220x104	24,8	68	1200	85
HC-H14-AMJ-305x305-FB/MG	H14	305x305x104	3,3	68	150	100
HC-H14-AMJ-305x610-FB/MG	H14	305x610x104	6,6	68	300	100
HC-H14-AMJ-457x457-FB/MG	H14	457x457x104	7,4	68	340	100
HC-H14-AMJ-610x610-FB/MG	H14	610x610x104	13,1	68	600	100
HC-H14-AMJ-610x762-FB/MG	H14	610x762x104	16,4	68	750	100
HC-H14-AMJ-610x915-FB/MG	H14	610x915x104	19,7	68	900	100
HC-H14-AMJ-610x1220-FB/MG	H14	610x1220x104	26,7	68	1200	100
UC-U15-AMJ-305x305-FB/MG	U15	305x305x104	3,5	68	150	115
UC-U15-AMJ-305x610-FB/MG	U15	305x610x104	7,0	68	300	115
UC-U15-AMJ-457x457-FB/MG	U15	457x457x104	7,9	68	340	115
UC-U15-AMJ-610x610-FB/MG	U15	610x610x104	14,0	68	600	115
UC-U15-AMJ-610x762-FB/MG	U15	610x762x104	17,5	68	750	115
UC-U15-AMJ-610x915-FB/MG	U15	610x915x104	21,0	68	900	115
UC-U15-AMJ-610x1220-FB/MG	U15	610x1220x104	28,0	68	1200	115

Other dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-AMJ-610x610-FB/MG

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	104mm	MJ
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Both Sides	FB
Pleat Code	PH;68mm	M
Gasket type	Gel	G



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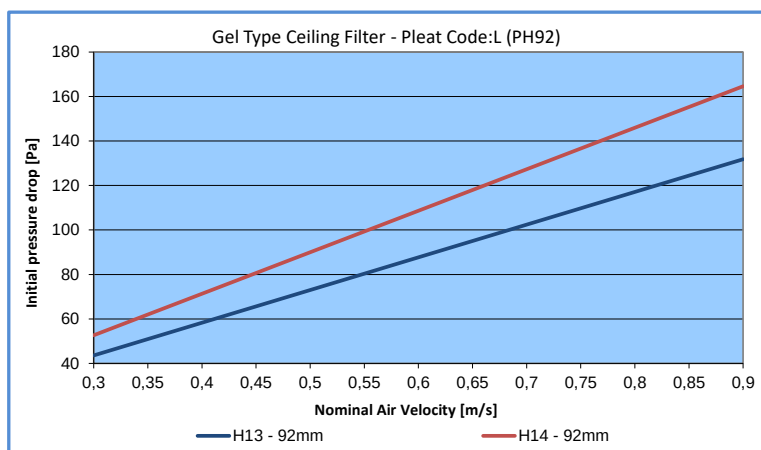
AIR FILTER TECHNOLOGY (EN1822)

GEL TYPE HEPA/ULPA CEILING FILTER with Aluminium Frame

(ALJ;128mm - PH;92mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-ALJ-305x305-FB/LG	H13	305x305x128	4,5	92	150	65
HC-H13-ALJ-305x610-FB/LG	H13	305x610x128	9,0	92	300	65
HC-H13-ALJ-457x457-FB/LG	H13	457x457x128	10,1	92	340	65
HC-H13-ALJ-610x610-FB/LG	H13	610x610x128	18,0	92	600	65
HC-H13-ALJ-610x762-FB/LG	H13	610x762x128	22,5	92	750	65
HC-H13-ALJ-610x915-FB/LG	H13	610x915x128	27,0	92	900	65
HC-H13-ALJ-610x1220-FB/LG	H13	610x1220x128	36,0	92	1200	65
HC-H14-ALJ-305x305-FB/LG	H14	305x305x128	4,7	92	150	80
HC-H14-ALJ-305x610-FB/LG	H14	305x610x128	9,4	92	300	80
HC-H14-ALJ-457x457-FB/LG	H14	457x457x128	10,6	92	340	80
HC-H14-ALJ-610x610-FB/LG	H14	610x610x128	18,8	92	600	80
HC-H14-ALJ-610x762-FB/LG	H14	610x762x128	23,5	92	750	80
HC-H14-ALJ-610x915-FB/LG	H14	610x915x128	28,2	92	900	80
HC-H14-ALJ-610x1220-FB/LG	H14	610x1220x128	37,6	92	1200	80
UC-U15-ALJ-305x305-FB/LG	U15	305x305x128	5,0	92	150	100
UC-U15-ALJ-305x610-FB/LG	U15	305x610x128	10,0	92	300	100
UC-U15-ALJ-457x457-FB/LG	U15	457x457x128	11,2	92	340	100
UC-U15-ALJ-610x610-FB/LG	U15	610x610x128	20,0	92	600	100
UC-U15-ALJ-610x762-FB/LG	U15	610x762x128	25,0	92	750	100
UC-U15-ALJ-610x915-FB/LG	U15	610x915x128	30,0	92	900	100
UC-U15-ALJ-610x1220-FB/LG	U15	610x1220x128	40,0	92	1200	100

Other dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-ALJ-610x610-FB/LG

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	128mm	LJ
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Both Sides	FB
Pleat Code	PH;92mm	L
Gasket type	Gel	G



ADVANCED FILTRATION FOR A BETTER FUTURE!

Specifications

- Optimized velocity distribution
- Low pressure drop, less energy consumption
- Guaranteed leak-free
- Available in all grades
- Various frame sizes with any dimensions

Filter Class; H13 - H14 - U15

Sealing Compound; Two component polyurethane

Frame type; Anodized, extruded aluminium

Faceguard; Aluminium sheet (powder coated)

Gasket; PU foam

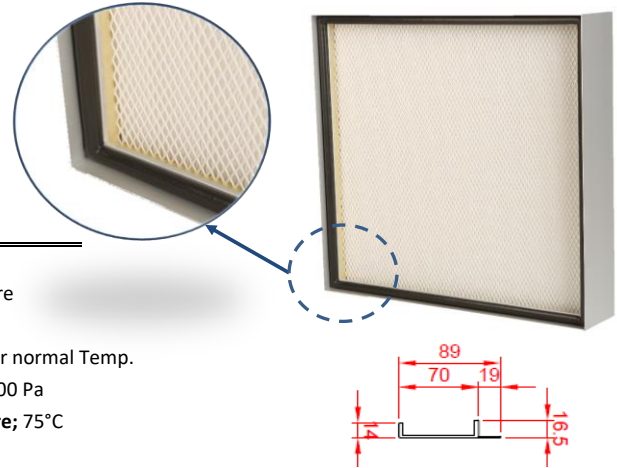
Media; High quality glass fibre

Separators; Hotmelt

Flammability Class; K2/F2 for normal Temp.

Max. Final Pressure Drop; 600 Pa

Max. Operating Temperature; 75°C



Filter Pleat	Pleat Height (PH-...)(mm)	Pleat Code	Filtration area per m ² face area	Filter Class (EN1822)	Pack resistance (Pa) @ nominal air velocity (0.45m/s)	Frame Code for pleat	Frame Depth for pleat (mm)
	50	1	24,2	H13	100	ASM	89
			25,3	H14	125		
			26,9	U15	140		

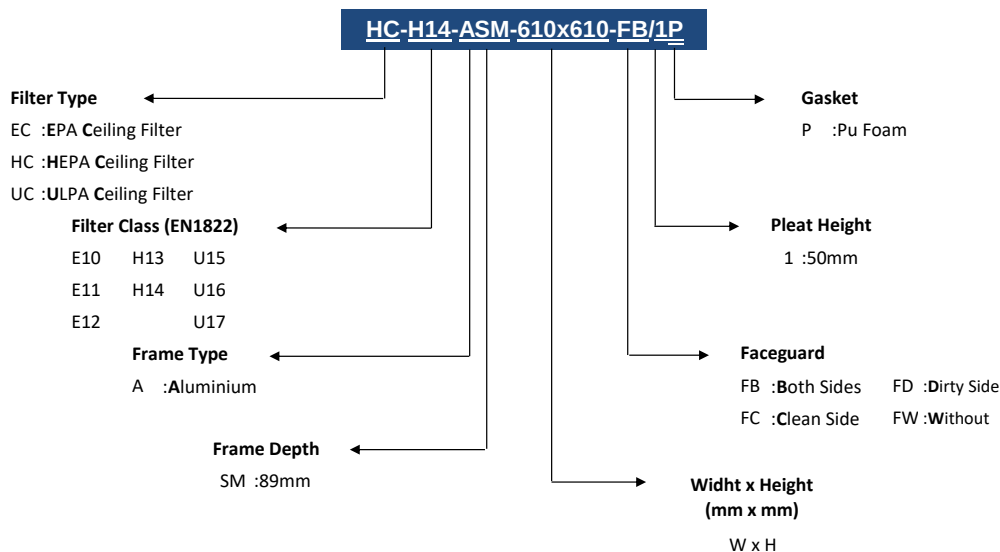
* Differential Pressure Tolerance ±10%

High-efficiency HEPA Ceiling filters protect people, equipment and processes from airborne particulate contamination. They are designed for clean room ceilings and cleanroom work tables requiring high or very high levels of air purity to provide laminar flow.

Applications: Industrial processes like microelectronics, medicine, pharma, the food industry, microbiology, chemistry, laboratories, hospital and hospital operating theatres, laminar flow boxes, fan filter units, nuclear energy and nuclear research.

Filtration area and pleat height designed with the optimum value are more important for performans of filters. The filters having high pleat height offer a good solution with lower operating costs and significantly reducing energy consumption.

HEPA and ULPA filters are tested and certified individually according to EN1822 with the advanced technology. We would recommend the higher grades of prefilters to increase the service life of the ceiling filters.



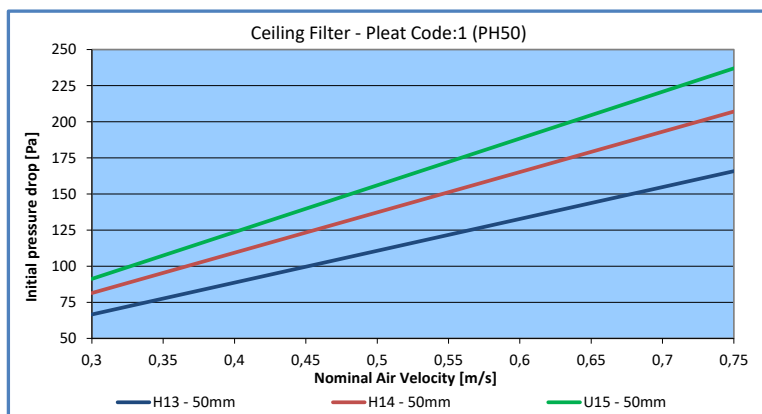
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA CEILING FILTER with Aluminium Frame

Knife Edge Profile (ASM;89mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-ASM-305x305-FB/1P	H13	305x305x89	2,3	50	150	100
HC-H13-ASM-305x610-FB/1P	H13	305x610x89	4,5	50	300	100
HC-H13-ASM-457x457-FB/1P	H13	457x457x89	5,1	50	340	100
HC-H13-ASM-457x610-FB/1P	H13	457x610x89	6,7	50	450	100
HC-H13-ASM-535x535-FB/1P	H13	535x535x89	6,9	50	465	100
HC-H13-ASM-575x575-FB/1P	H13	575x575x89	8,0	50	535	100
HC-H13-ASM-610x610-FB/1P	H13	610x610x89	9,0	50	600	100
HC-H13-ASM-610x762-FB/1P	H13	610x762x89	11,2	50	750	100
HC-H13-ASM-610x915-FB/1P	H13	610x915x89	13,5	50	900	100
HC-H13-ASM-762x762-FB/1P	H13	762x762x89	14,0	50	940	100
HC-H13-ASM-915x915-FB/1P	H13	915x915x89	20,3	50	1350	100
HC-H13-ASM-610x1220-FB/1P	H13	610x1220x89	18,0	50	1200	100
HC-H13-ASM-610x1525-FB/1P	H13	610x1525x89	22,5	50	1500	100
HC-H13-ASM-610x1830-FB/1P	H13	610x1830x89	27,0	50	1800	100
HC-H14-ASM-305x305-FB/1P	H14	305x305x89	2,4	50	150	125
HC-H14-ASM-305x610-FB/1P	H14	305x610x89	4,7	50	300	125
HC-H14-ASM-457x457-FB/1P	H14	457x457x89	5,3	50	340	125
HC-H14-ASM-457x610-FB/1P	H14	457x610x89	7,0	50	450	125
HC-H14-ASM-535x535-FB/1P	H14	535x535x89	7,2	50	465	125
HC-H14-ASM-575x575-FB/1P	H14	575x575x89	8,4	50	535	125
HC-H14-ASM-610x610-FB/1P	H14	610x610x89	9,4	50	600	125
HC-H14-ASM-610x762-FB/1P	H14	610x762x89	11,7	50	750	125
HC-H14-ASM-610x915-FB/1P	H14	610x915x89	14,1	50	900	125
HC-H14-ASM-762x762-FB/1P	H14	762x762x89	14,7	50	940	125
HC-H14-ASM-915x915-FB/1P	H14	915x915x89	21,2	50	1350	125
HC-H14-ASM-610x1220-FB/1P	H14	610x1220x89	18,8	50	1200	125
HC-H14-ASM-610x1525-FB/1P	H14	610x1525x89	23,5	50	1500	125
HC-H14-ASM-610x1830-FB/1P	H14	610x1830x89	28,2	50	1800	125
UC-U15-ASM-305x305-FB/1P	U15	305x305x89	2,5	50	150	140
UC-U15-ASM-305x610-FB/1P	U15	305x610x89	5,0	50	300	140
UC-U15-ASM-457x457-FB/1P	U15	457x457x89	5,6	50	340	140
UC-U15-ASM-610x610-FB/1P	U15	610x610x89	10,0	50	600	140
UC-U15-ASM-610x762-FB/1P	U15	610x762x89	12,5	50	750	140
UC-U15-ASM-610x915-FB/1P	U15	610x915x89	15,0	50	900	140
UC-U15-ASM-610x1220-FB/1P	U15	610x1220x89	20,0	50	1200	140

* Other Dimensions are available on request.



UC-U15-ASM-610x610-FB/1P		
Filter Model	Ulpa Ceiling	UC
Filter Class	U15 (EN1822)	U15
Frame Material	Aluminium	A
Filter Depth	89mm	SM
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Bothside	FB
Pleat Code	PH;50mm	1
Gasket type	PU	P



ADVANCED FILTRATION FOR A BETTER FUTURE!

HEPA TERMINAL HOOD FILTER with Aluminium Frame

Specifications

- Optimized velocity distribution
- Low pressure drop, less energy consumption
- Guaranteed leak-free
- Adjustable airflow by means of a damper
- Ready to install
- Aluminium cover and spigot
- Disposable filter modules
- With individual test certificated
- Factory sealed unit filter
- Interchangeable with existing filters
- Assembled without screws or fasteners
- Emery (DOP) and ΔP nozzles included

Filter Class; H13 - H14 - U15

Sealing Compound; Two component polyurethane

Frame type; Anodized, extruded aluminium

Faceguard; Aluminium sheet, powder coated

Spigot Diameter; 160-200-250-315mm

Media; High quality glass fibre

Separators; Hotmelt

Flammability Class; K2/F2 for normal Temp.

Max. Final Pressure Drop; 600 Pa

Max. Operating Temperature; 75°C



Filter Pleat	Pleat Height (PH-...)(mm)	Pleat Code	Filtration area per m² face area	Filter Class (EN1822)	Pack resistance @ nominal air velocity (0,45m/s)	Available Frame Code for pleat	Available Frame Depth for pleat (mm)
	50	1	29,6	H13	90	(HTH) AL, AX	125, 175
			29,6	H14	115		
			29,6	U15	135		
	100	6	48,4	H13	65	(HTH) AX	175
			50,5	H14	80		
			53,7	U15	100		

* Other pleat heights are available for special applications.

* Differential Pressure Tolerance ±10%

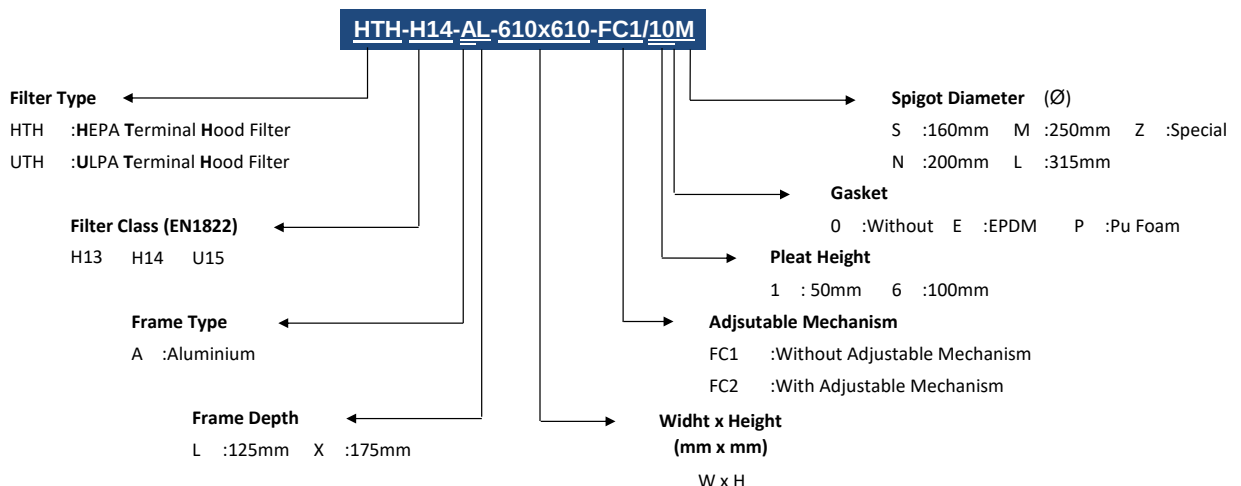
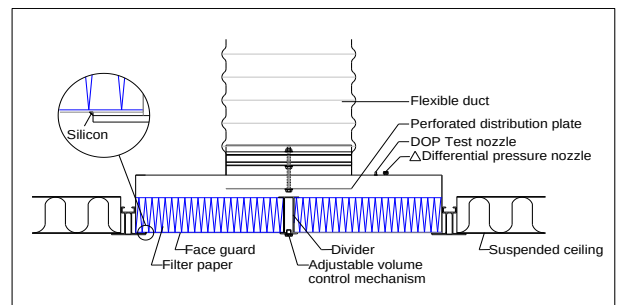
High-efficiency HEPA Terminal Hood filters protect people, equipment and processes from airborne particulate contamination. HEPA Terminal Hood filters are used in air ventilation and air conditioning plants requiring high or very high levels of air purity. They are designed for clean room ceilings and clean work tables to provide laminar flow.

Applications: Industrial processes like microelectronics, medicine, pharma, the food industry, microbiology, chemistry, laboratories, hospital and hospital operating theatres, laminar flow boxes, nuclear energy and nuclear research.

Filtration area and pleat height designed with the optimum value are more important for performans of filters. The filters having high pleat height offer a good solution with lower operating costs and significantly reducing energy consumption.

Volume can be adjusted by perforated distribution plate from roomside with a screwdriver through an access port located in the center of the unit. For an optional application where the volume control is not necessary the fixed distribution plate is also available (divider is not included).

Note: Add 15Pa to initial resistance for hood construction



ADVANCED FILTRATION FOR A BETTER FUTURE!

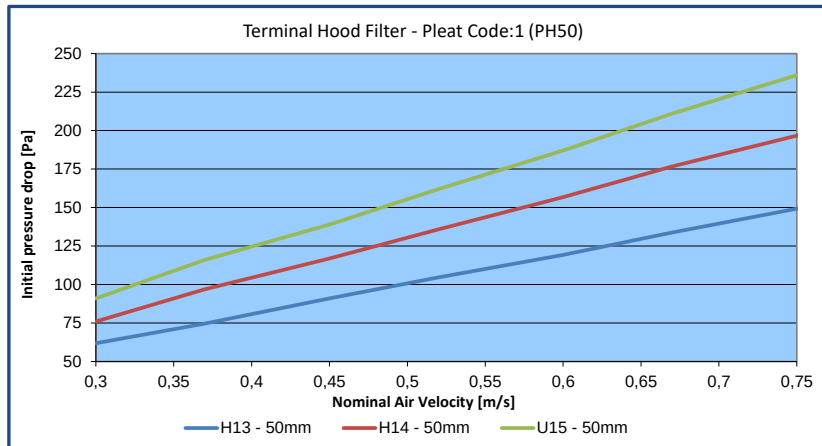
AIR FILTER TECHNOLOGY (EN1822)

HEPA/ULPA TERMINAL HOOD FILTER with Aluminium Frame

(AL;125mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Spigot Diameter (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HTH-H13-AL-305x305-FC1/10S	H13	305x305x125	160	2,8	50	150	90
HTH-H13-AL-305x610-FC1/10N	H13	305x610x125	200	5,5	50	300	90
HTH-H13-AL-457x457-FC1/10N	H13	457x457x125	200	6,2	50	340	90
HTH-H13-AL-610x610-FC1/10M	H13	610x610x125	250	11,0	50	600	90
HTH-H13-AL-610x762-FC1/10M	H13	610x762x125	250	13,7	50	750	90
HTH-H13-AL-610x915-FC1/10L	H13	610x915x125	315	16,5	50	900	90
HTH-H13-AL-610x1220-FC1/10L	H13	610x1220x125	315	22,0	50	1200	90
HTH-H14-AL-305x305-FC1/10S	H14	305x305x125	160	2,8	50	150	115
HTH-H14-AL-305x610-FC1/10N	H14	305x610x125	200	5,5	50	300	115
HTH-H14-AL-457x457-FC1/10N	H14	457x457x125	200	6,2	50	340	115
HTH-H14-AL-610x610-FC1/10M	H14	610x610x125	250	11,0	50	600	115
HTH-H14-AL-610x762-FC1/10M	H14	610x762x125	250	13,7	50	750	115
HTH-H14-AL-610x915-FC1/10L	H14	610x915x125	315	16,5	50	900	115
HTH-H14-AL-610x1220-FC1/10L	H14	610x1220x125	315	22,0	50	1200	115
UTH-U15-AL-305x305-FC1/10S	U15	305x305x125	160	2,8	50	150	135
UTH-U15-AL-305x610-FC1/10N	U15	305x610x125	200	5,5	50	300	135
UTH-U15-AL-457x457-FC1/10N	U15	457x457x125	200	6,2	50	340	135
UTH-U15-AL-610x610-FC1/10M	U15	610x610x125	250	11,0	50	600	135
UTH-U15-AL-610x762-FC1/10M	U15	610x762x125	250	13,7	50	750	135
UTH-U15-AL-610x915-FC1/10L	U15	610x915x125	315	16,5	50	900	135
UTH-U15-AL-610x1220-FC1/10L	U15	610x1220x125	315	22,0	50	1200	135

Other dimensions are available on request.



HTH-H14-AL-610x610-FC1/10M

Filter Model	HEPA Hood	HTH
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	125mm	L
Filter Dimensions	WxH (mm)	610x610
Adj. Mechanism	Without	FC1
Pleat Code	PH;50mm	1
Gasket type	Without	0
Spigot Diameter	PH;250mm	M



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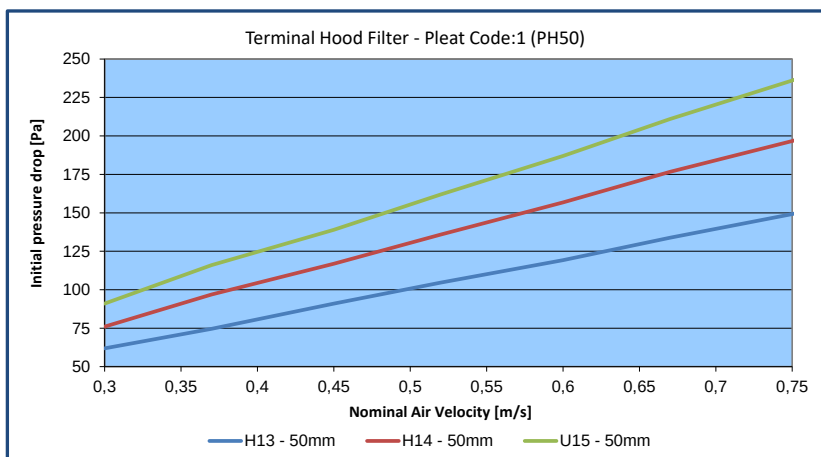
AIR FILTER TECHNOLOGY (EN1822)

HEPA TERMINAL HOOD FILTER with Aluminium Frame

(AX;175mm - PH;50mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Spigot Diameter (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HTH-H13-AX-305x305-FC2/10S	H13	305x305x175	160	2,8	50	150	90
HTH-H13-AX-305x610-FC2/10N	H13	305x610x175	200	5,5	50	300	90
HTH-H13-AX-457x457-FC2/10N	H13	457x457x175	200	6,2	50	340	90
HTH-H13-AX-610x610-FC2/10M	H13	610x610x175	250	11,0	50	600	90
HTH-H13-AX-610x762-FC2/10M	H13	610x762x175	250	13,7	50	750	90
HTH-H13-AX-610x915-FC2/10L	H13	610x915x175	315	16,5	50	900	90
HTH-H13-AX-610x1220-FC2/10L	H13	610x1220x175	315	22,0	50	1200	90
HTH-H14-AX-305x305-FC2/10S	H14	305x305x175	160	2,8	50	150	115
HTH-H14-AX-305x610-FC2/10N	H14	305x610x175	200	5,5	50	300	115
HTH-H14-AX-457x457-FC2/10N	H14	457x457x175	200	6,2	50	340	115
HTH-H14-AX-610x610-FC2/10M	H14	610x610x175	250	11,0	50	600	115
HTH-H14-AX-610x762-FC2/10M	H14	610x762x175	250	13,7	50	750	115
HTH-H14-AX-610x915-FC2/10L	H14	610x915x175	315	16,5	50	900	115
HTH-H14-AX-610x1220-FC2/10L	H14	610x1220x175	315	22,0	50	1200	115
UTH-U15-AX-305x305-FC2/10S	U15	305x305x175	160	2,8	50	150	135
UTH-U15-AX-305x610-FC2/10N	U15	305x610x175	200	5,5	50	300	135
UTH-U15-AX-457x457-FC2/10N	U15	457x457x175	200	6,2	50	340	135
UTH-U15-AX-610x610-FC2/10M	U15	610x610x175	250	11,0	50	600	135
UTH-U15-AX-610x762-FC2/10M	U15	610x762x175	250	13,7	50	750	135
UTH-U15-AX-610x915-FC2/10L	U15	610x915x175	315	16,5	50	900	135
UTH-U15-AX-610x1220-FC2/10L	U15	610x1220x175	315	22,0	50	1200	135

Other dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HTH-H14-AX-610x610-FC2/10M

Filter Model	HEPA Hood	HTH
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	175mm	X
Filter Dimensions	WxH (mm)	610x610
Adj. Mechanism	Available	FC2
Pleat Code	PH;50mm	1
Gasket type	Without	0
Spigot Diameter	PH;250mm	M



ADVANCED FILTRATION FOR A BETTER FUTURE!

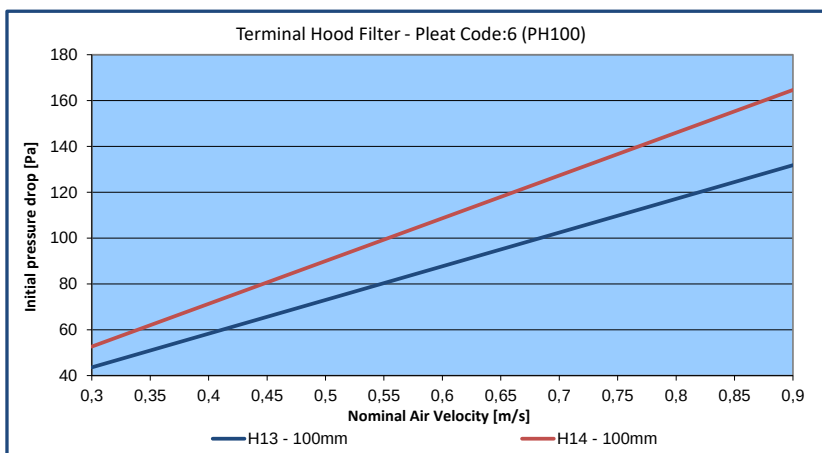
AIR FILTER TECHNOLOGY (EN1822)

HEPA TERMINAL HOOD FILTER with Aluminium Frame

(AX;175mm - PH;100mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Spigot Diameter (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HTH-H13-AX-305x305-FC1/60S	H13	305x305x175	160	4,5	100	150	65
HTH-H13-AX-305x610-FC1/60N	H13	305x610x175	200	9,0	100	300	65
HTH-H13-AX-457x457-FC1/60N	H13	457x457x175	200	10,1	100	340	65
HTH-H13-AX-610x610-FC1/60M	H13	610x610x175	250	18,0	100	600	65
HTH-H13-AX-610x762-FC1/60M	H13	610x762x175	250	22,5	100	750	65
HTH-H13-AX-610x915-FC1/60L	H13	610x915x175	315	27,0	100	900	65
HTH-H13-AX-610x1220-FC1/60L	H13	610x1220x175	315	36,0	100	1200	65
HTH-H14-AX-305x305-FC1/60S	H14	305x305x175	160	4,7	100	150	80
HTH-H14-AX-305x610-FC1/60N	H14	305x610x175	200	9,4	100	300	80
HTH-H14-AX-457x457-FC1/60N	H14	457x457x175	200	10,6	100	340	80
HTH-H14-AX-610x610-FC1/60M	H14	610x610x175	250	18,8	100	600	80
HTH-H14-AX-610x762-FC1/60M	H14	610x762x175	250	23,5	100	750	80
HTH-H14-AX-610x915-FC1/60L	H14	610x915x175	315	28,2	100	900	80
HTH-H14-AX-610x1220-FC1/60L	H14	610x1220x175	315	37,6	100	1200	80
UTH-U15-AX-305x305-FC1/60S	U15	305x305x175	160	5,0	100	150	100
UTH-U15-AX-305x610-FC1/60N	U15	305x610x175	200	10,0	100	300	100
UTH-U15-AX-457x457-FC1/60N	U15	457x457x175	200	11,2	100	340	100
UTH-U15-AX-610x610-FC1/60M	U15	610x610x175	250	20,0	100	600	100
UTH-U15-AX-610x762-FC1/60M	U15	610x762x175	250	25,0	100	750	100
UTH-U15-AX-610x915-FC1/60L	U15	610x915x175	315	30,0	100	900	100
UTH-U15-AX-610x1220-FC1/60L	U15	610x1220x175	315	40,0	100	1200	100

Other dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HTH-H14-AX-610x610-FC1/60M

Filter Model	HEPA Hood	HTH
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	175mm	X
Filter Dimensions	WxH (mm)	610x610
Adj. Mechanism	Without	FC1
Pleat Code	PH;100mm	6
Gasket type	Without	0
Spigot Diameter	PH;250mm	M



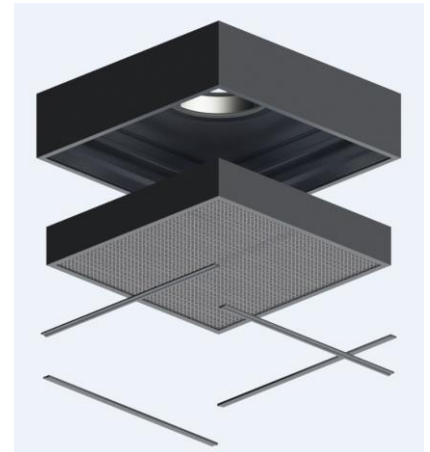
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AIR FILTER TECHNOLOGY (EN1822)

HEPA TERMINAL HOOD FILTER with changeable gel type Aluminium Frame Filter

Specifications

- Optimized velocity distribution
- Low pressure drop, less energy consumption
- Guaranteed leak-free
- Unit with gel gasket filter (104mm depth)
- Depth of module; 175mm (without spigot)
- Aluminium cover and spigot
- Changeable filter dimension 35mm less than unit
- With individual test certificated
- Factory sealed unit filter
- Interchangeable with existing filters
- Assembled without screws or fasteners
- Emery (DOP) and ΔP nozzles included



Filter Class; H13 - H14 - U15

Sealing Compound; Two component polyurethane

Frame type; Anodized, extruded aluminium

Faceguard; Aluminium sheet, powder coated

Spigot Diameter; 160-200-250-315mm

Media; High quality glass fibre

Separators; Hotmelt

Flammability Class; K2/F2 for normal Temp.

Max. Final Pressure Drop; 600 Pa

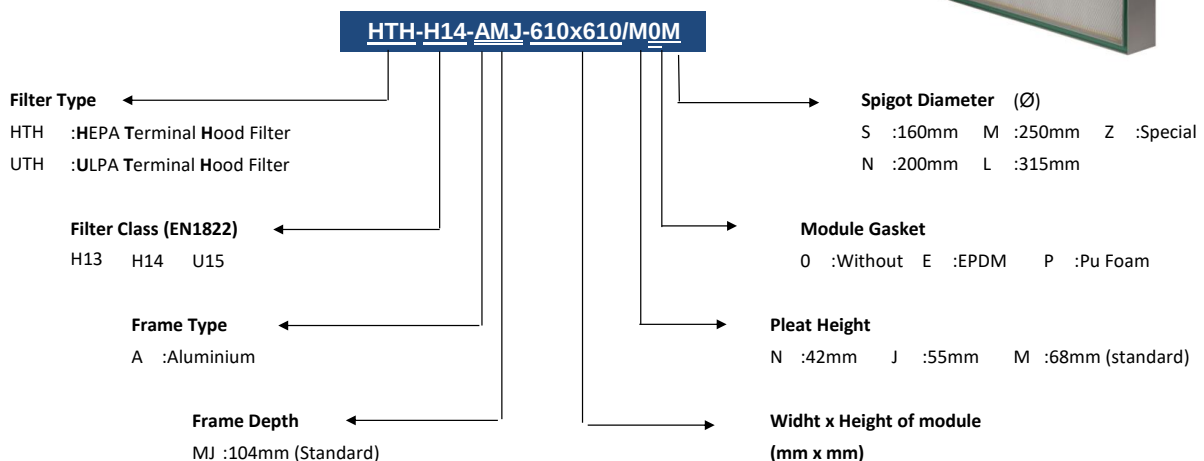
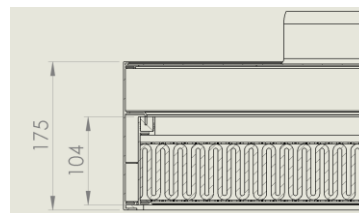
Max. Operating Temperature; 75°C

Filter Pleat	Pleat Height (PH-...)(mm)	Pleat Code	Filtration area per m ² face area	Filter Class (EN1822)	Pack resistance @ nominal air velocity (0,45m/s)	Available Frame Code for pleat	Available Frame Depth for pleat (mm)
	42	N	24,2	H13	100	AMJ	104
			25,3	H14	125		
			26,9	U15	140		
	55	J	28,8	H13	90	AMJ	104
			30,4	H14	115		
			32,2	U15	130		
	68	M	33,4	H13	85	AMJ	104
			35,2	H14	100		
			37,6	U15	115		

Other pleat heights are available for special applications.

Note: Add 15Pa to initial resistance for hood construction.

Filtration area and pleat height designed with the optimum value are more important for performans of filters. The filters having high pleat height offer a good solution with lower operating costs and significantly reducing energy consumption.



Note: The dimension of the gel type filter is 33mm less than of module in each side



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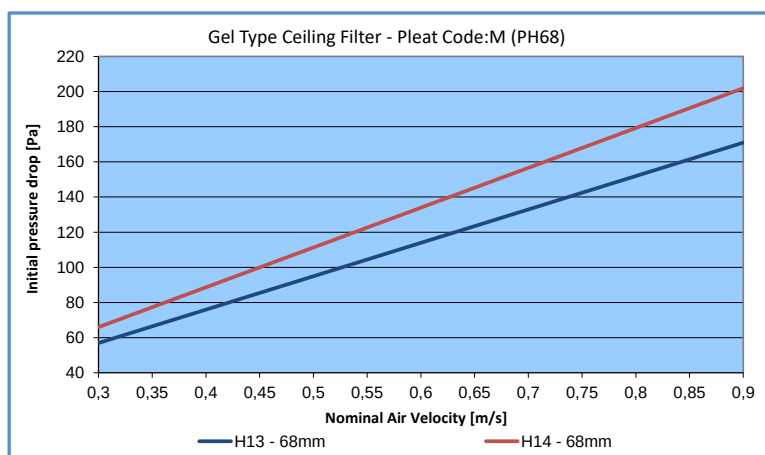
AIR FILTER TECHNOLOGY (EN1822)

GEL TYPE HEPA/ULPA CEILING FILTER with Aluminium Frame

(AMJ;104mm - PH;68mm; Standard)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HC-H13-AMJ-305x305-FB/MG	H13	305x305x104	3,1	68	150	85
HC-H13-AMJ-305x610-FB/MG	H13	305x610x104	6,2	68	300	85
HC-H13-AMJ-457x457-FB/MG	H13	457x457x104	7,0	68	340	85
HC-H13-AMJ-610x610-FB/MG	H13	610x610x104	12,4	68	600	85
HC-H13-AMJ-610x762-FB/MG	H13	610x762x104	15,5	68	750	85
HC-H13-AMJ-610x915-FB/MG	H13	610x915x104	18,6	68	900	85
HC-H13-AMJ-610x1220-FB/MG	H13	610x1220x104	24,8	68	1200	85
HC-H14-AMJ-305x305-FB/MG	H14	305x305x104	3,3	68	150	100
HC-H14-AMJ-305x610-FB/MG	H14	305x610x104	6,6	68	300	100
HC-H14-AMJ-457x457-FB/MG	H14	457x457x104	7,4	68	340	100
HC-H14-AMJ-610x610-FB/MG	H14	610x610x104	13,1	68	600	100
HC-H14-AMJ-610x762-FB/MG	H14	610x762x104	16,4	68	750	100
HC-H14-AMJ-610x915-FB/MG	H14	610x915x104	19,7	68	900	100
HC-H14-AMJ-610x1220-FB/MG	H14	610x1220x104	26,7	68	1200	100
UC-U15-AMJ-305x305-FB/MG	U15	305x305x104	3,5	68	150	115
UC-U15-AMJ-305x610-FB/MG	U15	305x610x104	7,0	68	300	115
UC-U15-AMJ-457x457-FB/MG	U15	457x457x104	7,9	68	340	115
UC-U15-AMJ-610x610-FB/MG	U15	610x610x104	14,0	68	600	115
UC-U15-AMJ-610x762-FB/MG	U15	610x762x104	17,5	68	750	115
UC-U15-AMJ-610x915-FB/MG	U15	610x915x104	21,0	68	900	115
UC-U15-AMJ-610x1220-FB/MG	U15	610x1220x104	28,0	68	1200	115

Other dimensions are available on request.



* For other pleat heights check the curves acc. to pleat code.

HC-H14-AMJ-610x610-FB/MG

Filter Model	Hepa Ceiling	HC
Filter Class	H14 (EN1822)	H14
Frame Material	Aluminium	A
Filter Depth	104mm	MJ
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Both Sides	FB
Pleat Code	PH;68mm	M
Gasket type	Gel	G



ADVANCED FILTRATION FOR A BETTER FUTURE!

Specifications

- Large filter surface
- Less maintenance and energy consumption
- Header depth is 25mm
- Fully incinerable without pollutant emission
- Airflow and installation in any direction possible

- Self-supporting and rigid
- Long service life
- Easy installation
- Low pressure drop



Filter Class; E10 - E11 -E12 - H13

Media; High quality glass fibre

Frame type; %100 recycled plastic frame (PP)

Faceguard; Without (available on request)

Gasket; Without (available on request)

Final Pressure Drop; 450 Pa

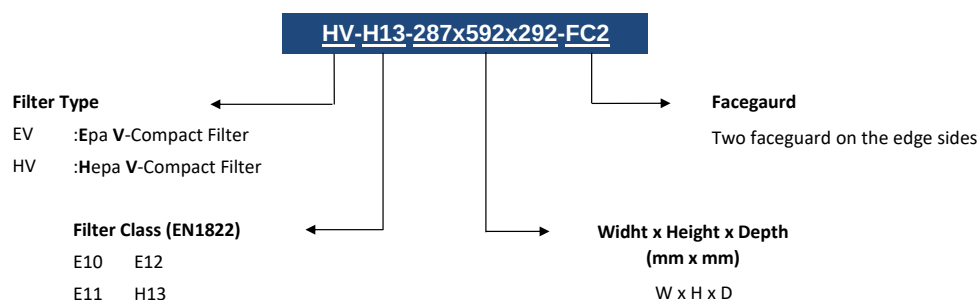
Max. Operating Temperature; 75° C

Application; Prefilter or final for HVAC

Seperator; Hotmelt

Sealing Compound; Two component polyurethane

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
EV-E10-592x592x292	E10	592x592x292	19	4000	200
EV-E10-490x592x292	E10	490x592x292	15,3	3300	200
EV-E10-287x592x292	E10	287x592x292	9,5	2000	200
EV-E11-592x592x292	E11	592x592x292	19	3400	190
EV-E11-490x592x292	E11	490x592x292	15,3	2800	190
EV-E11-287x592x292	E11	287x592x292	9,5	1700	190
EV-E12-592x592x292	E12	592x592x292	19	3000	270
EV-E12-490x592x292	E12	490x592x292	15,3	2470	270
EV-E12-287x592x292	E12	287x592x292	9,5	1500	270
HV-H13-592x592x292-FC2	H13	592x592x292	19	2500	250
HV-H13-490x592x292-FC2	H13	490x592x292	15,3	2000	250
HV-H13-287x592x292-FC2	H13	287x592x292	9,5	1250	250



AIR FILTER TECHNOLOGY (EN1822)

HIGH CAPACITY HEPA FILTER with SINGLE PLEAT (METAL)

Specifications

- Single Pleat
- Low pressure drop, less energy consumption
- Guaranteed leak-free
- Available in all grades
- For high air flow applications
- High quality glass fibre media
- Available in all grades
- Optimized velocity distribution



Filter Class; H13 - H14

Sealing Compound; Polyurethane

Flammability Class; K2/H2 for Normal Temp.

Faceguard; Available on request

Gasket; EPDM, EPDM Flat continuous and PU Foam

Media; High quality glass fibre

Separators; Hotmelt

Max. Operating Temperature; 75°C

Max. Final Pressure Drop; 600 Pa

Frame type; Galvanized, Alu. and Stainless Steel

Model	Nominal Air Flow for 610x610mm	Pleat Height	Filter Class	Filtration Area for 610x610mm	Initial Pressure Drop @Nominal Air Flow
	(m³/h)	(mm)	(EN1822)	(m²)	(Pa)
G20 M20	2000	125	H13	18	240
			H14	20	250
G30 M30	3000	150	H13	26	250
			H14	30	270

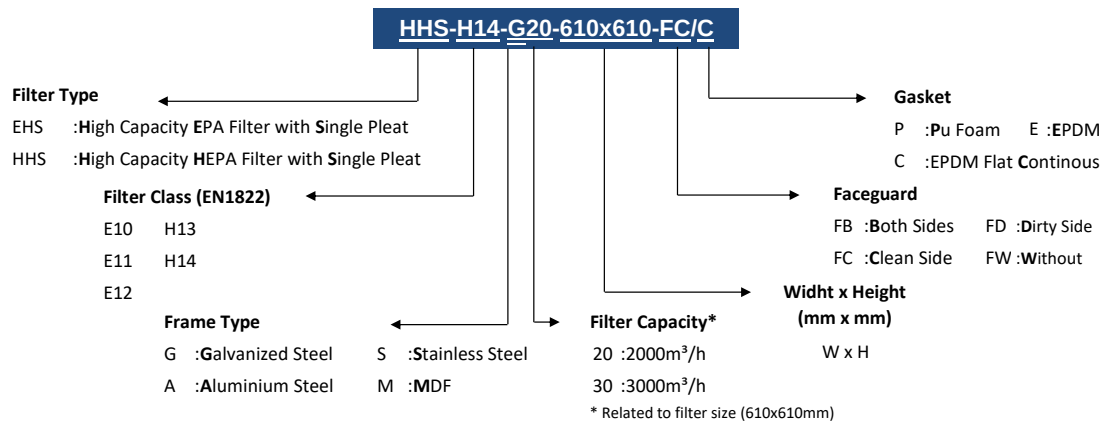
Other frame depths are available for special applications.

High capacity HEPA filters with single pleat protect people, equipment and processes from airborne particulate contamination. This type of filters are used in air ventilation and air conditioning plants requiring high or very high levels of air purity. They are designed for laminar flow units, air handling units and clean room systems.

Applications: Industrial processes like microelectronics, medicine, pharma, the food industry, microbiology, chemistry, laboratories, hospital and hospital operating theatres, laminar flow boxes, fan filter units, nuclear energy and nuclear research.

Filtration area and pleat height designed with the optimum value are more important for performances of filters. The filters having high pleat height offer a good solution with lower operating costs and significantly reducing energy consumption.

HEPA and ULPA filters are tested and certified individually according to EN1822 with the advanced technology. We would recommend the higher grades of prefilters to increase the service life of the ceiling filters.



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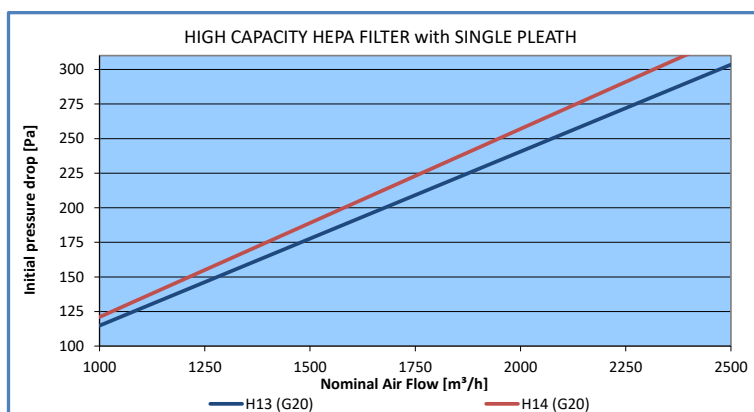
AIR FILTER TECHNOLOGY (EN1822)

HIGH CAPACITY HEPA FILTER with SINGLE pleat (METAL)

(G20 - PH;125mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HHS-H13-G20-305x305-FC/C	H13	305x305x292	4,5	125	500	240
HHS-H13-G20-305x610-FC/C	H13	305x610x292	9,0	125	1000	240
HHS-H13-G20-457x610-FC/C	H13	457x610x292	13,5	125	1500	240
HHS-H13-G20-610x610-FC/C	H13	610x610x292	18,0	125	2000	240
HHS-H13-G20-610x762-FC/C	H13	610x762x292	22,5	125	2500	240
HHS-H13-G20-610x915-FC/C	H13	610x915x292	27,0	125	3000	240
HHS-H13-G20-610x1220-FC/C	H13	610x1220x292	36,0	125	4000	240
HHS-H14-G20-305x305-FC/C	H14	305x305x292	5,0	125	500	250
HHS-H14-G20-305x610-FC/C	H14	305x610x292	10,0	125	1000	250
HHS-H14-G20-457x610-FC/C	H14	457x457x292	15,0	125	1500	250
HHS-H14-G20-610x610-FC/C	H14	610x610x292	20,0	125	2000	250
HHS-H14-G20-610x762-FC/C	H14	610x762x292	25,0	125	2500	250
HHS-H14-G20-610x915-FC/C	H14	610x915x292	30,0	125	3000	250
HHS-H14-G20-610x1220-FC/C	H14	610x1220x292	40,0	125	4000	250

Other dimensions are available on request.



HHS-H14-G20-610x610-FC/C

Filter Model	Single Pleat	HHS
Filter Class	H14 (EN1822)	H14
Frame Material	Galvanized	G
Nominal Capacity*	2000m³/h	20
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Clean Side	FC
Gasket	EPDM Flat	C

*According to 610x610 dimensions



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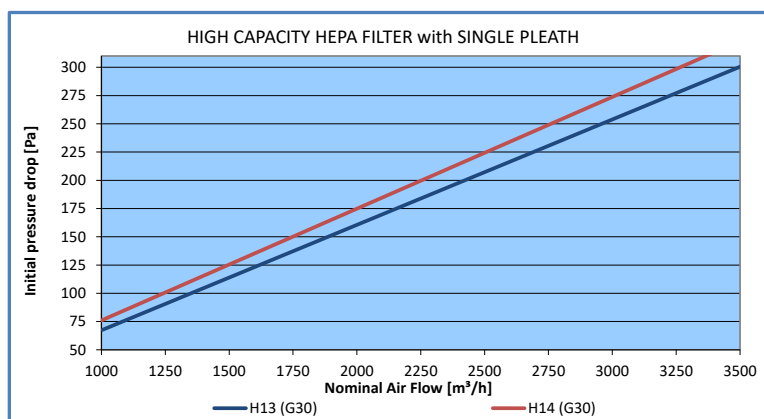
AIR FILTER TECHNOLOGY (EN1822)

HIGH CAPACITY HEPA FILTER with SINGLE pleat (METAL)

(G30 - PH;150mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HHS-H13-G30-305x305-FC/C	H13	305x305x292	6,5	150	750	250
HHS-H13-G30-305x610-FC/C	H13	305x610x292	13,0	150	1500	250
HHS-H13-G30-457x610-FC/C	H13	457x610x292	19,5	150	2250	250
HHS-H13-G30-610x610-FC/C	H13	610x610x292	26,0	150	3000	250
HHS-H13-G30-610x762-FC/C	H13	610x762x292	32,5	150	3750	250
HHS-H13-G30-610x915-FC/C	H13	610x915x292	39,0	150	4500	250
HHS-H13-G30-610x1220-FC/C	H13	610x1220x292	52,0	150	6000	250
HHS-H14-G30-305x305-FC/C	H14	305x305x292	7,5	150	750	270
HHS-H14-G30-305x610-FC/C	H14	305x610x292	15,0	150	1500	270
HHS-H14-G30-457x610-FC/C	H14	457x457x292	22,5	150	2250	270
HHS-H14-G30-610x610-FC/C	H14	610x610x292	30,0	150	3000	270
HHS-H14-G30-610x762-FC/C	H14	610x762x292	37,5	150	3750	270
HHS-H14-G30-610x915-FC/C	H14	610x915x292	45,0	150	4500	270
HHS-H14-G30-610x1220-FC/C	H14	610x1220x292	60,0	150	6000	270

Other dimensions are available on request.



HHS-H14-G30-610x610-FC/C

Filter Model	Single Pleat	HHS
Filter Class	H14 (EN1822)	H14
Frame Material	Galvanized	G
Nominal Capacity*	3000m³/h	30
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	On Clean Side	FC
Gasket	EPDM Flat	C

*According to 610x610 dimensions



ADVANCED FILTRATION FOR A BETTER FUTURE!

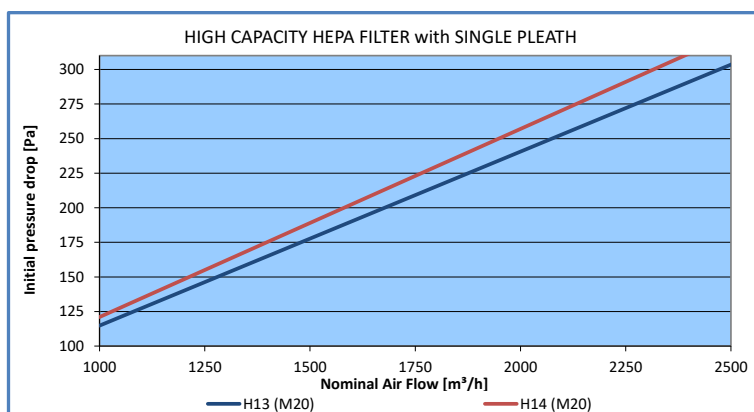
AIR FILTER TECHNOLOGY (EN1822)

HIGH CAPACITY HEPA FILTER with SINGLE pleat (MDF)

(M20 - PH;125mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HHS-H13-M20-305x305-FW/P	H13	305x305x292	4,5	125	500	240
HHS-H13-M20-305x610-FW/P	H13	305x610x292	9,0	125	1000	240
HHS-H13-M20-457x610-FW/P	H13	457x610x292	13,5	125	1500	240
HHS-H13-M20-610x610-FW/P	H13	610x610x292	18,0	125	2000	240
HHS-H13-M20-610x762-FW/P	H13	610x762x292	22,5	125	2500	240
HHS-H13-M20-610x915-FW/P	H13	610x915x292	27,0	125	3000	240
HHS-H13-M20-610x1220-FW/P	H13	610x1220x292	36,0	125	4000	240
HHS-H14-M20-305x305-FW/P	H14	305x305x292	5,0	125	500	250
HHS-H14-M20-305x610-FW/P	H14	305x610x292	10,0	125	1000	250
HHS-H14-M20-457x610-FW/P	H14	457x457x292	15,0	125	1500	250
HHS-H14-M20-610x610-FW/P	H14	610x610x292	20,0	125	2000	250
HHS-H14-M20-610x762-FW/P	H14	610x762x292	25,0	125	2500	250
HHS-H14-M20-610x915-FW/P	H14	610x915x292	30,0	125	3000	250
HHS-H14-M20-610x1220-FW/P	H14	610x1220x292	40,0	125	4000	250

Other dimensions are available on request.



HHS-H13-M20-610x610-FW/P

Filter Model	Single Pleat	HHS
Filter Class	H13 (EN1822)	H13
Frame Material	MDF	M
Nominal Capacity*	2000m³/h	20
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Without	FW
Gasket	Pu Foam	P

*According to 610x610 dimensions



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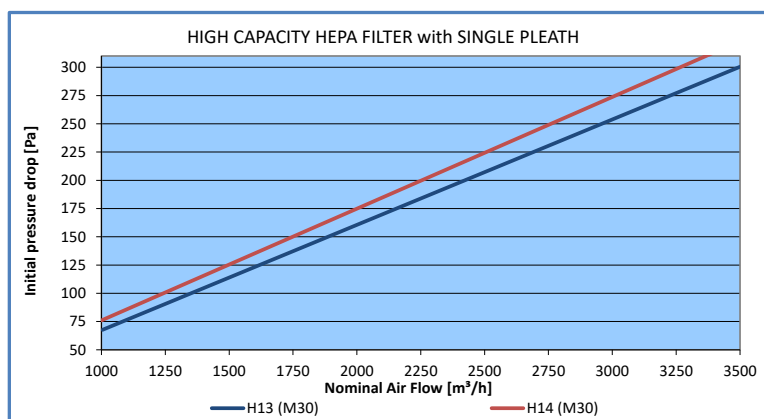
AIR FILTER TECHNOLOGY (EN1822)

HIGH CAPACITY HEPA FILTER with SINGLE pleat (MDF)

(M30 - PH;150mm)

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Height (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HHS-H13-M30-305x305-FW/P	H13	305x305x292	6,5	150	750	250
HHS-H13-M30-305x610-FW/P	H13	305x610x292	13,0	150	1500	250
HHS-H13-M30-457x610-FW/P	H13	457x610x292	19,5	150	2250	250
HHS-H13-M30-610x610-FW/P	H13	610x610x292	26,0	150	3000	250
HHS-H13-M30-610x762-FW/P	H13	610x762x292	32,5	150	3750	250
HHS-H13-M30-610x915-FW/P	H13	610x915x292	39,0	150	4500	250
HHS-H13-M30-610x1220-FW/P	H13	610x1220x292	52,0	150	6000	250
HHS-H14-M30-305x305-FW/P	H14	305x305x292	7,5	150	750	270
HHS-H14-M30-305x610-FW/P	H14	305x610x292	15,0	150	1500	270
HHS-H14-M30-457x610-FW/P	H14	457x457x292	22,5	150	2250	270
HHS-H14-M30-610x610-FW/P	H14	610x610x292	30,0	150	3000	270
HHS-H14-M30-610x762-FW/P	H14	610x762x292	37,5	150	3750	270
HHS-H14-M30-610x915-FW/P	H14	610x915x292	45,0	150	4500	270
HHS-H14-M30-610x1220-FW/P	H14	610x1220x292	60,0	150	6000	270

Other dimensions are available on request.



HHS-H13-M30-610x610-FW/P

Filter Model	Single Pleat	HHS
Filter Class	H13 (EN1822)	H13
Frame Material	MDF	M
Nominal Capacity*	3000m³/h	30
Filter Dimensions	WxH (mm)	610x610
Faceguard Side	Without	FW
Gasket	Pu Foam	P

*According to 610x610 dimensions



ADVANCED FILTRATION FOR A BETTER FUTURE!

AIR FILTER TECHNOLOGY (EN1822)

HIGH CAPACITY HEPA FILTER with V-MODUL Design (METAL)

Specifications

- Service life, less maintenance
- Low pressure drop, less energy consumption
- Guaranteed leak-free
- Compact and strong construction
- Metal Frame, minimum risk of damage



Filter Class; E10 - E11 - E12 - H13 - H14

Sealing Compound; Two component polyurethane

Flammability Class; K2/F2 (K1/F1 available)

Design; V-Modul

Gasket; EPDM, EPDM Flat continuous and PU Foam

Media; High quality glass fibre

Separators; Hotmelt

Max. Operating Temperature; 75°C ("T"; 120°C)

Max. Final Pressure Drop; 600 Pa

Frame type; Galvanized Steel (Stainless Steel available)

High Capacity Hepa Filters with V-Modul design filters are manufactured according to international dimensions. They are designed for the special systems such as in supply and exhaust air systems in industry, cleanroom applications, medical and nuclear installations.

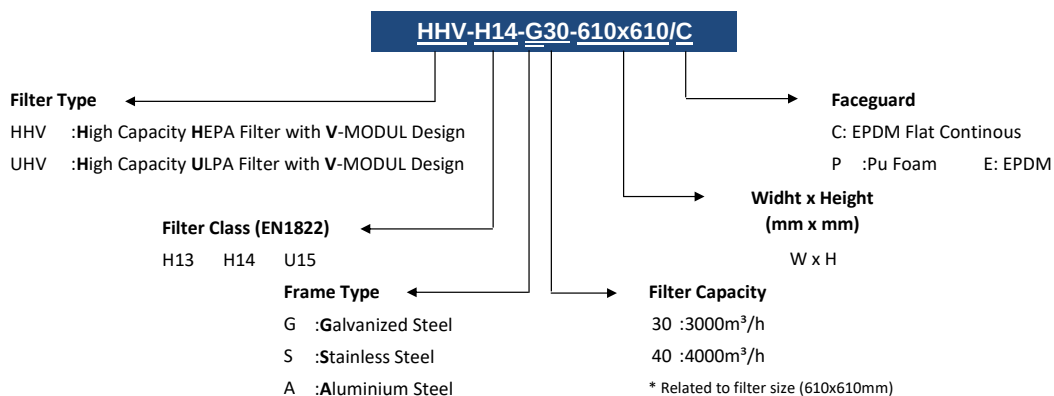
High Capacity Hepa Filters with V-design filter mats are ready to use for face velocities up to 3m/s (air volumes up to 4000m³/h) in several pack densities / casing / gasket materials.

Filtration area and pleat type designed with the optimum value are more important for performance of filters. The filters having large filter surface area offer a good solution with lower operating costs and significantly reducing energy consumption.

Model	Nominal Air Flow for 610x610mm	Filter Class	Filtration Area for 610x610mm	Initial Pressure Drop @Nominal
	(m³/h)	(EN1822)	(m²)	(Pa)
G30	3000	H13	26	250
		H14	30	250
G40	4000	H13	37	290
		H14	40	300

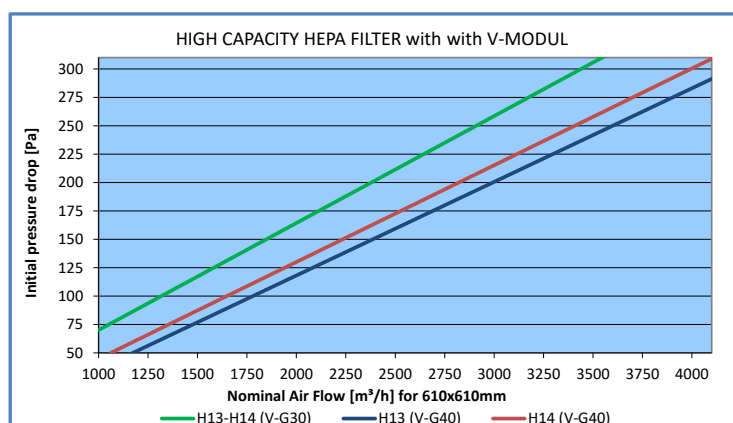
HEPA and ULPA filters are tested and certified individually according to EN1822 with the advanced technology. We would recommend the higher grades of prefilters to increase the service life of the ceiling filters.

Applications: Industrial processes like microelectronics, medicine, pharma, the food industry, microbiology, chemistry, laboratories, hospital and hospital operating theatres, laminar flow boxes, fan filter units, nuclear energy and nuclear research.



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Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Design	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HHV-H13-G30-305x305/C	H13	305x305x292	6,5	V-Modul	750	250
HHV-H13-G30-287x592/C	H13	287x592x292	13,0	V-Modul	1500	250
HHV-H13-G30-305x610/C	H13	305x610x292	13,0	V-Modul	1500	250
HHV-H13-G30-457x610/C	H13	457x610x292	19,5	V-Modul	2250	250
HHV-H13-G30-592x592/C	H13	592x592x292	26,0	V-Modul	3000	250
HHV-H13-G30-610x610/C	H13	610x610x292	26,0	V-Modul	3000	250
HHV-H13-G30-610x762/C	H13	610x762x292	32,5	V-Modul	3750	250
HHV-H14-G30-305x305/C	H14	305x305x292	7,5	V-Modul	750	250
HHV-H14-G30-287x592/C	H14	287x592x292	15,0	V-Modul	1500	250
HHV-H14-G30-305x610/C	H14	305x610x292	15,0	V-Modul	1500	250
HHV-H14-G30-457x610/C	H14	457x610x292	22,5	V-Modul	2250	250
HHV-H14-G30-592x592/C	H14	592x592x292	30,0	V-Modul	3000	250
HHV-H14-G30-610x610/C	H14	610x610x292	30,0	V-Modul	3000	250
HHV-H14-G30-610x762/C	H14	610x762x292	37,5	V-Modul	3750	250

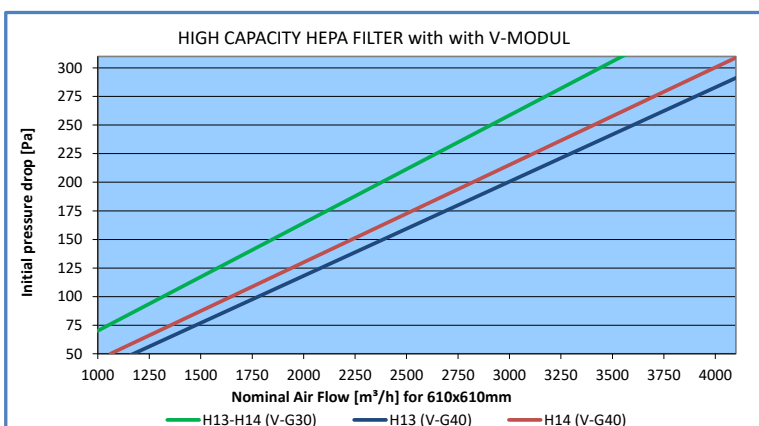


HHV-H14-G30-610x610/C

Filter Model	V-Modul	HHV
Filter Class	H14 (EN1822)	H14
Frame Material	Galvanized	G
Nominal Capacity*	3000m³/h	30
Filter Dimensions	WxH (mm)	610x610
Gasket	EPDM Flat	C

*According to 610x610 dimensions

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Pleat Design	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HHV-H13-G40-305x305/C	H13	305x305x292	9,3	V-Modul	1000	290
HHV-H13-G40-287x592/C	H13	287x592x292	18,5	V-Modul	2000	290
HHV-H13-G40-305x610/C	H13	305x610x292	18,5	V-Modul	2000	290
HHV-H13-G40-457x610/C	H13	457x610x292	27,7	V-Modul	3000	290
HHV-H13-G40-592x592/C	H13	592x592x292	37,0	V-Modul	4000	290
HHV-H13-G40-610x610/C	H13	610x610x292	37,0	V-Modul	4000	290
HHV-H13-G40-610x762/C	H13	610x762x292	46,0	V-Modul	5000	290
HHV-H14-G40-305x305/C	H14	305x305x292	10,0	V-Modul	1000	300
HHV-H14-G40-287x592/C	H14	287x592x292	20,0	V-Modul	2000	300
HHV-H14-G40-305x610/C	H14	305x610x292	20,0	V-Modul	2000	300
HHV-H14-G40-457x610/C	H14	457x610x292	30,0	V-Modul	3000	300
HHV-H14-G40-592x592/C	H14	592x592x292	40,0	V-Modul	4000	300
HHV-H14-G40-610x610/C	H14	610x610x292	40,0	V-Modul	4000	300
HHV-H14-G40-610x762/C	H14	610x762x292	50,0	V-Modul	5000	300



HHV-H14-G40-610x610/C

Filter Model	V-Modul	HHV
Filter Class	H14 (EN1822)	H14
Frame Material	Galvanized	G
Nominal Capacity*	4000m³/h	40
Filter Dimensions	WxH (mm)	610x610
Gasket	EPDM Flat	C

*According to 610x610 dimensions

Specifications

- Service life, less maintenance
- Low pressure drop, less energy consumption
- Large filter surface area up to 37 m²
- Compact design, space saving
- Rigid Metal frame, minimum risk of damage

Media; High quality glass fibre - H13 (EN1822)
Frame type; Galvanized Steel
Flammability Class; K2/F2 (K1/F1 available)
Gasket; Silicon

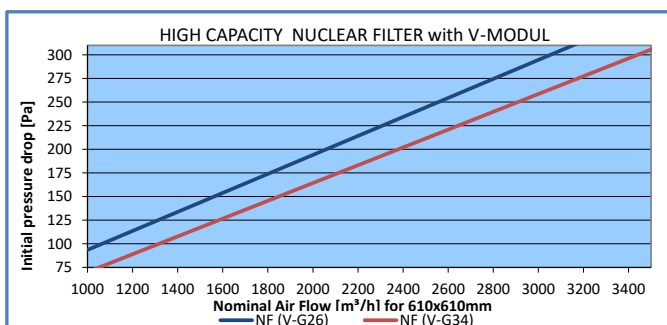
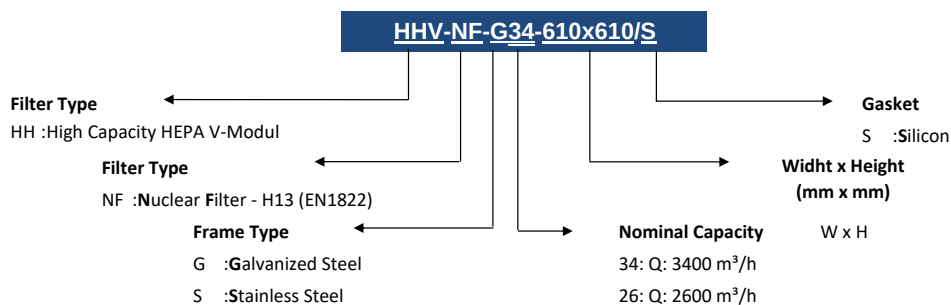
Design; V-Modul
Separators; Hotmelt
Max. Operating Temperature; 120°C
Max. Final Pressure Drop; 600 Pa



HH filters are manufactured according to international dimensions. They are designed for the special systems such as in supply and exhaust air systems in industry, clean room applications, medical and nuclear installations.

The glass fibre accordance with standards of ASME AG-1 and En1822.

Filter Model	Dimensions WxHxD (mm)	Filtration Area (m ²)	Nominal Airflow (m ³ /h)	Initial Pressure Drop (Pa)
HH-NF-G26-305x305/S	305x305x292	6,5	650	250
HH-NF-G26-287x592/S	287x592x292	13,0	1300	250
HH-NF-G26-305x610/S	305x610x292	13,0	1300	250
HH-NF-G26-592x592/S	592x592x292	26,0	2600	250
HH-NF-G26-610x610/S	610x610x292	26,0	2600	250
HH-NF-G34-305x305/S	305x305x292	9,3	850	300
HH-NF-G34-287x592/S	287x592x292	18,5	1700	300
HH-NF-G34-305x610/S	305x610x292	18,5	1700	300
HH-NF-G34-592x592/S	592x592x292	37,0	3400	300
HH-NF-G34-610x610/S	610x610x292	37,0	3400	300



HH-NF-G26-305x610/S		
Filter Model	High C. HEPA	HH
Filter Model	Nuclear Filter	NF
Frame Material	Galvanized	G
Nominal Capacity*	2600m ³ /h	26
Filter Dimensions	WxH (mm)	305x610
Gasket	Silicon	S

*According to 610x610 dimensions

AIR FILTER TECHNOLOGY (EN1822)

COMPACT HEPA FILTER with ALUMINIUM SEPERATOR

Specifications

- High dust holding capacity
- Low pressure drop, less energy consumption
- Guaranteed leak-free
- Available in all grades
- Heat resistant filter media



Filter Class; H13 - H14

Media; High quality glass fibre

Frame type; Galvanized Steel, Stainless Steel, MDF

Separators; Corrugated Aluminium

Flammability Class; K2/F2, K1/F1

Max. Operating Temperature; up to 75°C, 120°C, 220°C

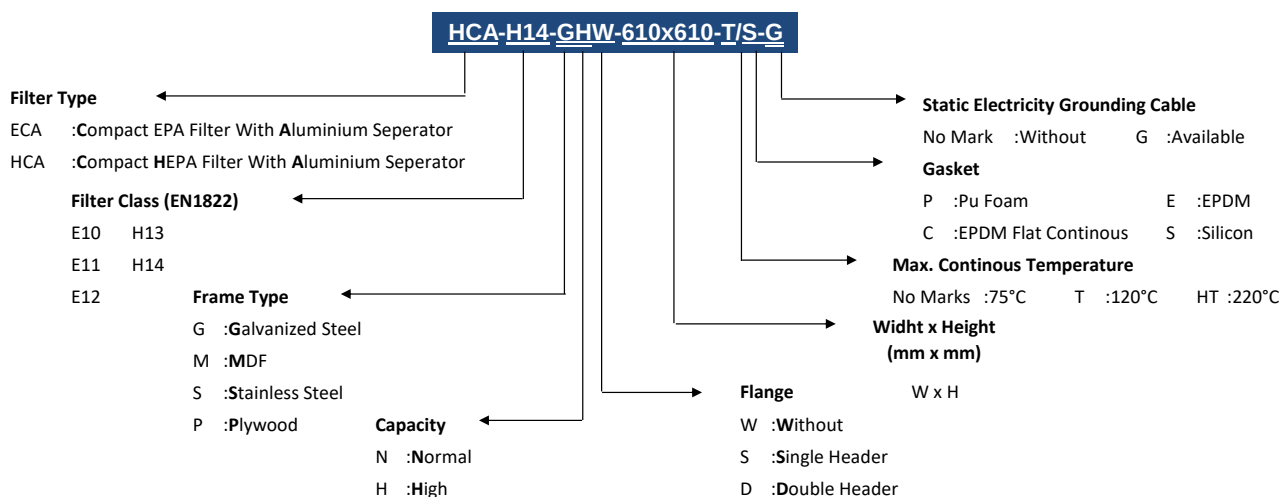
Flange; Without, single, double

Max. Final Pressure Drop; 600 Pa

Gasket; Silicon, EPDM and PU Foam

Sealing Compound; Two component polyurethane, silicon

Filter Model	Filter Class (EN1822)	Dimensions WxHxD (mm)	Filtration Area (m²)	Max. Continuous Temperature (°C)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
HCA-H13-MNW-305x610/E	H13	305x610x292	7,0	75	750	250
HCA-H13-MNW-610x610/E	H13	610x610x292	14,0	75	1500	250
HCA-H13-MHW-305x610/E	H13	305x610x292	11,0	75	1250	250
HCA-H13-MHW-610x610/E	H13	610x610x292	22,0	75	2500	250
HCA-H14-MHW-305x610/E	H14	305x610x292	11,0	75	1100	250
HCA-H14-MHW-610x610/E	H14	610x610x292	22,0	75	2200	250
HCA-H13-GNW-305x610-T/S	H13	305x610x292	7,0	120	750	250
HCA-H13-GNW-610x610-T/S	H13	610x610x292	14,0	120	1500	250
HCA-H13-GHW-305x610-T/S	H13	305x610x292	11,0	120	1250	250
HCA-H13-GHW-610x610-T/S	H13	610x610x292	22,0	120	2500	250
HCA-H14-GHW-305x610-T/S	H14	305x610x292	11,0	120	1100	250
HCA-H14-GHW-610x610-T/S	H14	610x610x292	22,0	120	2200	250
HCA-H13-SND-305x610-HT/S	H13	305x610x292	7,0	220	750	250
HCA-H13-SND-610x610-HT/S	H13	610x610x292	14,0	220	1500	250
HCA-H13-SHD-305x610-HT/S	H13	305x610x292	11,0	220	1250	250
HCA-H13-SHD-610x610-HT/S	H13	610x610x292	22,0	220	2500	250
HCA-H14-SHD-305x610-HT/S	H14	305x610x292	11,0	220	1100	250
HCA-H14-SHD-610x610-HT/S	H14	610x610x292	22,0	220	2200	250



ADVANCED FILTRATION FOR A BETTER FUTURE!

FRAME HOLDING

Specifications

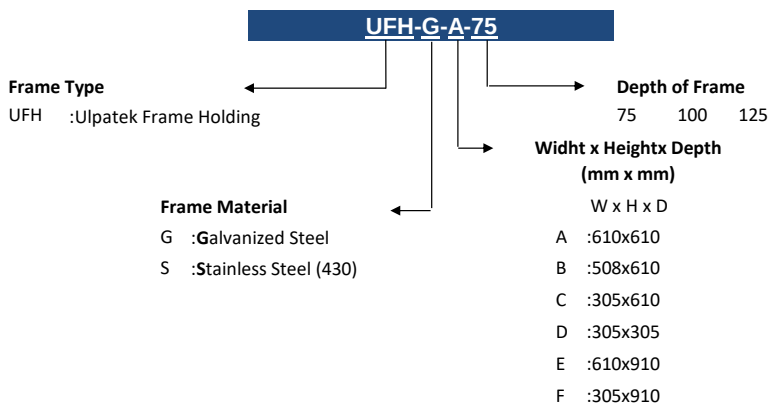
- Easy install
- Robust Construction
- Safe-holding with 4 clips
- Available for several filters in a single frame

Holding frames and installation rails help to install the filters easily and safely. During air conditioning systems modification and renewal repairs, holding frames are easy way to secure a high quality filter connection.

Different filter can be combined in a single frame without any problems. The clips have good resistance to alcohols, lyes and weak acids, and very durable.



Frame Model	Frame Dimensions WxHxD (mm)	Frame Dimensions WxH (mm)	Available Filter Depths D (mm)
UFH-G-A-75	610x610x75	592x592	25, 48
UFH-G-B-75	508x610x75	490x592	25, 48
UFH-G-C-75	305x610x75	287x592	25, 48
UFH-G-D-75	305x305x75	287x287	25, 48
UFH-G-A-100	610x610x100	592x592	25, 48, 75, 25+48
UFH-G-B-100	508x610x100	490x592	25, 48, 75, 25+48
UFH-G-C-100	305x610x100	287x592	25, 48, 75, 25+48
UFH-G-D-100	305x305x100	287x287	25, 48, 75, 25+48
UFH-G-A-125	610x610x125	592x592	25, 48, 75, 96, 25+48, 25+75
UFH-G-B-125	508x610x125	490x592	25, 48, 75, 96, 25+48, 25+75
UFH-G-C-125	305x610x125	287x592	25, 48, 75, 96, 25+48, 25+75
UFH-G-D-125	305x305x125	287x287	25, 48, 75, 96, 25+48, 25+75



UFH-G-C-75		
Frame Type	Fr. Holding	UFH
Frame Material	Galvanized	G
Dimensions	305x610	C
Thickness	75mm	75



HEPA FILTER BOX

Specifications

- Filter seal-leak test (DIN 1946)
- Measurement of pressure drop from room side
- Available air flow adjustment damper fitted to the spigot
- Available in various construction and dimensions
- Easy to remove air outlets
- Available powder coated or stainless steel
- Central fixing for diffuser
- Low overall height

Application

Hospitals ; Operating theatres and operating side rooms, intensive care, isolation slations, sterile zones etc.

Laboratories ; Clean zones and working places, exhaust air filtration of toxic aerosols.

Industry ; Electronic, optical, pharmaceutical, food and chemical industries.



Main demands of the clean room technology and especially in its pharmaceutical applications is the air-conditioning and also accordingly the air quality. Air distribution is generally made through the HEPA filter installed to its housing. Therefore, selection and assembling the HEPA filter to its housing without leakage is very important. HEPA Filter Housing consists of 3 main parts, which are the box, filter and the diffuser. Box has a duct connection port for air inlet at the top or at the sides. On the room side the diffuser can be selected either with special vanes adapted to cleanrooms or with a perforated plate. Filters can be chosen according to the room Class from E10 to U17. HEPA Filter Boxes weights between 12 kg and 47 kg according to the construction type. All HEPA Filter boxes are tested for leakages with test groove system.

To track filter working conditions, HEPA boxes have nozzles for differential manometer connections. According to the EN 1882 standards, boxes have nozzles for supplying test aerosols (EMERY/DOP).

Test grooves that face the HEPA filter gasket achieves air tightness according to DIN 1946 Part 4. Inside of the housing can be easily disinfected and will not be effected from disinfection chemicals.

ULPATEK CODE	Box Dimension			Hepa Filter Dimension			Diffuser Dimension	
	Width mm	Length mm	Height mm	Width mm	Length mm	Height mm	Width mm	Length mm
HFB-SY-E1A-627x627x400-T/S	627	627	400	610	610	78	650	650
HFB-SY-D2A-474x474x400-T/S	474	474	400	457	457	78	500	500
HFB-SY-C3A-322x322x400-T/S	322	322	400	305	305	78	350	350

HFB-SY-E1A-627x627x400-T/S									
Product Type HFB: HEPA FILTER BOX		Box Mateial S: Stainless steel P: Powder coated sheet steel		Spigot Side X: Top Inlet Y: Side Straight Inlet Z: Side "Z" Inlet		Diffuser Type S: Swirl P: Perforated		Leaf Proof gasket surface T: Test groove system F: Flat surface	
Spigot Diameter (mm) A: 125 E: 250 B: 150 F: 300 C: 160 G: 315 D: 200		Filter Dimensions (WxHxD) (mm) 1: 610x610x78 6: 557x557x78 2: 457x457x78 7: 535x535x78 3: 305x305x78 8: 610x610x150 4: 592x592x78 9: 610x610x292 5: 575x575x78 10: Special		Filter Frame Type A: Aluminium M: MDF J: Gel type Aluminium		Box Dimensions (WxLxH) (mm)			



HEPA FILTER HOUSING

Specifications

- Available with or without pre-filter section.
- Corrosion resistant version available in stainless steel.
- Fitted with seal test groove to DIN 1946 as an option.
- Single and robust
- Multiple assemblies for large air flows.
- Compatible with the entire product range G3-F9, E10-U7
- Functional design, user-friendly operation.
- ULPATEK housing in other constructions for special applications or working conditions on request.



Design, Materials

ULPATEK filter housing is made out of 1,5 mm thick sheet steel, either stainless or galvanized are gas tight welded. The filters are held in position by 4 corner brackets with screws, allowing simple and secure. Clamping of the filter unit against the housing seal face. As an option, this seal face may be equipped with a seal test groove. to DIN 1946. The stainless steel version has all fittings manufactures from stainless steel.

Application

For the supply of highly efficient filtered air for hospitals, laboratories and in industry (pharmaceutical, food, elektronik etc.). Ideally the air flow should be horizontal and the servicing has to be done from the rear.



Figure 1. Clamps as seen in figure



Figure 2. Magnehelic as seen in figure



Figure 3. Filtration area as seen in figure



AIR FILTER TECHNOLOGY

FAN FILTER UNIT

(FFU)

Specifications

- Easy installation into cleanroom grids
- Snap-in, washable prefilter for easy replacement and maintenance
- Guaranteed leak-free
- Self-contained ceiling fan filter unit
- Low operating cost, low wattage
- AC or EC fans optionally
- Silent operation (65 dBA)
- Adjustable airflow with variable speed controller on request
- Differential pressure gauge available on request
- Replacement Hepa Filter from room side or ceiling side
- Flexible dimensions
- Uniform Air Velocity



Filter Media; High quality glass fibre

Design; Compact, Separated and Gel type

Fan Motor; AC or EC fans

Recommended Prefilters; G4, F7 (EN779-2012)

Filter Separators; Hotmelt

Max. Operating Temperature; 75°C

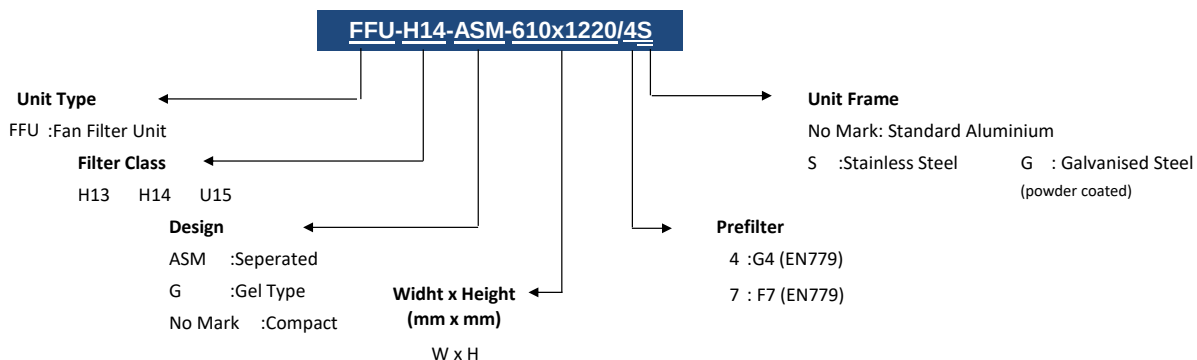
Recommended Final Pressure Drop; 400 Pa

Unit Frame type; Aluminium, Galvanized or Stainless Steel

Applications:

Medical technology / Pharmaceuticals / Microelectronics / Nanotechnology / Micromechanics / Bio-engineering and Genetic engineering / Laboratories / Pharmaceutical Industry / Automotive Industry / Food and Beverage Industry and also suitable for all sterile applications.

Filter Model	Dimensions WxHxD (mm)	Prefilter (EN779)	Nominal Airflow (m³/h)	Filter Initial Pressure Drop H14 (Pa)
FFU-H14-ASM-610x610/4	610x610x390	G4	600	125
FFU-H14-ASM-610x915/4	610x915x390	G4	900	125
FFU-H14-ASM-610x1220/4	610x1220x390	G4	1200	125



Unit Model	Separated	Gel Type	Compact
Filter	HEPA / ULPA	HEPA / ULPA	HEPA / ULPA
Nominal Air Velocity	0,45	0,45	0,45
Filter Type	ASM	ANJ, AJ, AMJ, ALJ	Special
Motor Type	AC / EC	AC / EC	AC / EC
Differential Pressure Gauge	Optional	Optional	Optional
Variable Speed Controller	Optional	Optional	Optional
Recommended Prefilters	G4 / F7	G4 / F7	G4 / F7
Filter Replacement Side	Ceiling	Room	Ceiling

FFU-H14-ASM-610x610/4		
Unit Model	Fan Filter	FFU
Filter Class	H14 (EN1822)	H14
Design	Separated	ASM
Filter Dimensions	WxH (mm)	610x610
Prefilter	G4	4
Unit Frame	Aluminium	No Mark



ADVANCED FILTRATION FOR A BETTER FUTURE!

SAFE CHANGE FILTER HOUSING

Specifications

- Versatile modular system
- Robust and strong construction
- Self-adjusting filter sealing mechanism
- Available powder coated or stainless steel
- Differential manometer connection port for each stage
- Single or multiple filter stages with overall filter heights
- Optionally probes for aerosol injection and particle measurement



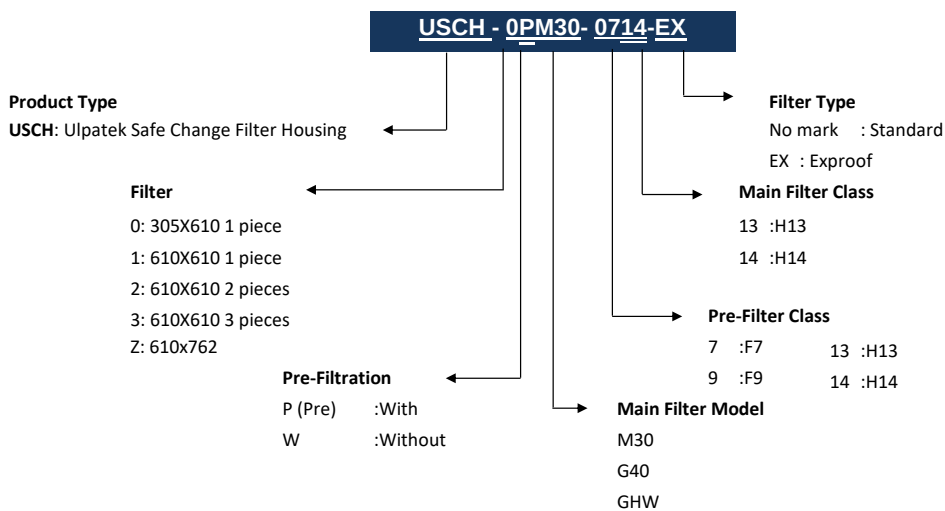
Safe Change Filter Housing was designed to filtrate particles, aerosols and to protect service staff and environment against unsanitary conditions which may be create toxics.

Metal body of safe change filter housing has bisulcate flange connection. This structure provides a safe tightness. Filter change is carried out untouched by human hands. Service staff do not have to touch neither filter nor inner side of cabin. ULPATEK Safe Change Filter Housing has a pre-filter option. Body surface of cabin is powder coated with a colour you preferred and can be disinfected. Service covers are closed very tightly with spline sealed bolt and cross-slotted bolt. Pollution situation of filters can be monitored with differential pressure nozzles which are on cabin.

Areas of Usage

- Pharmaceutical Plants
- Nuclear Power Plants
- Radioactive Isotope Laboratory
- Epidemic and Isolation Products
- Hospital installation in nuclear medicine
- Biotechnical facilities

Ulpatek Code	Air Flow (m³/h)	Pre Filtration (EN779)	Particulate Filtration (EN1822)	Min. Efficiency (0,3 µm) (%)	Min. Efficiency (MPSS) (%)
USCH-0PM30-0714	1.500	F7	H14	99,999	99,995
USCH-1PM30-0714	3.000	F7	H14	99,999	99,995
USCH-2PM30-0714	6.000	F7	H14	99,999	99,995
USCH-3PM30-0714	9.000	F7	H14	99,999	99,995
USCH-4PM30-0714	12.000	F7	H14	99,999	99,995
USCH-8PM30-0714	24.000	F7	H14	99,999	99,995



LAMINAR FLOW UNITS with FFUs

Specifications

- Replacement HEPA filter from room side or ceiling side
- Flexible dimensions
- Perforated stainless steel diffuser screen protects HEPA filters
- Modular design with Compact, Separated and Gel type FFUs
- Silent operation (65 dBA)
- Global individual control with AC Control Systems
- Uniform air velocity
- Ceiling suspended or free-standing with support legs
- Ceiling or side wall mounted lighting
- Adjustable airflow with variable speed controller
- High technology AC and EC fans



Laminar Flow Cabin with FFU's is made of special aluminum profiles and stainless steel frames. Cabins are either designed to be hanged from ceiling or comes with rolling wheels. Transparent curtains, velocity control switch, magnehelic manometers are some of the accessories. Fan Filter units achieve Class 100 conditions according to U.S. Federal Standard 209E or ISO Class 5 according to ISO 14644-1:1999 with speed controlled fans, pre-filter (G3) and HEPA filter (H14). Clean-air velocity is about 0,45 m/s ($\pm 20\%$) measured 15-20 cm under the air distributor.

Laminar flow cabins with FFU supplies laminar flow achieving positive pressure in the cabin. These models are used to only for laminar flow purpose. They can be designed any dimension according to the demand.

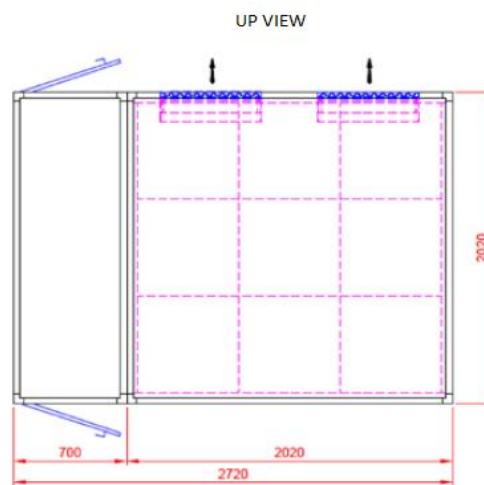
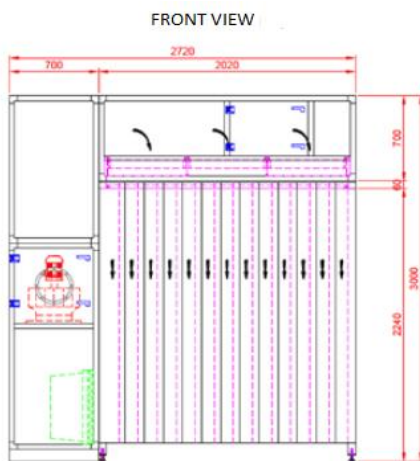
LAMINAR FLOW CABINS for WEIGHING and SAMPLING

Specifications

- Flexible dimension and safe working zones
- Available in a variety of construction materials, including 304/316 stainless steel and epoxy coated carbon steel
- Integrated cooling coils and other air conditioning systems
- Ceiling or side wall mounted lighting
- Designs suitable for use in explosive environments
- Used for production, weighing, sampling and packaging
- Leakage test with test aerosol according to ISO 14644-3 for HEPA filters
- Adjustable airflow and pressure control with variable speed controller
- Optionally safe change (Bag in - Bag out) solutions
- Custom filtration systems to suit each application including HEPA filter

These laminar flow cabins consist of prefilters, fans, HEPA filters (H13/14), lighting fixtures, electric and automatic control systems, PVC curtains, wheels or parts for hanging from ceiling. At below, you can find reference pictures of process type laminar flow cabins.

According to the applications optional accessories like cooling coil, temperature and humidification monitoring can be supplied.



LAMINAR FLOW UNITS FOR OPERATING THEATRES

Specifications

- Montage and service easiness with high quality design
- DIN 4799 Standart sterility on partial and full capacities
- Hepa Filter Box with differential manometer connection ports and aerosol port
- Used High capacity HEPA filter (EN1822)
- Metal Frame H13 / H14 Filters connection side with sealing
- Pendant Lamp connection detail
- Separate seal leak test ports for each HEPA filter (in conjunction with test groove)

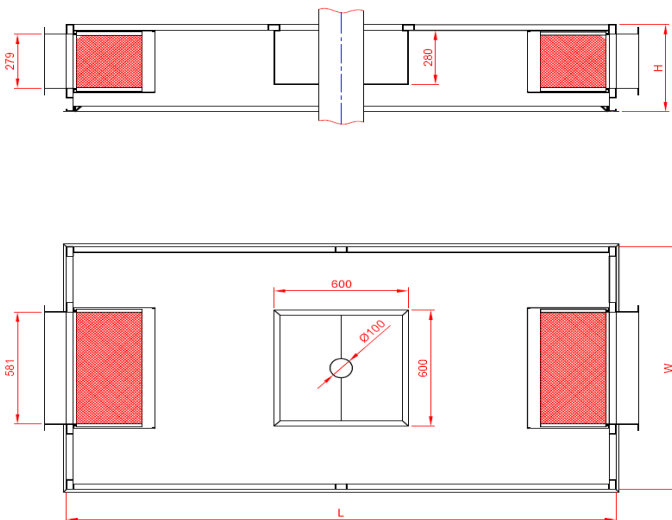
Operation theatre type Laminar Flow Unites are used to supply laminar flow over the operating table and its perimeter. Laminar Flow Unites prevent operating zone from microbes, bacteria and other living organisms.

Operation theatre type Laminar Flow Units are constructed from stainless steel. For filtration H13 / H14 HEPA filters with metal frames are used. A laminisator made of special taut silk fabric is used under the laminar flow unite, to achieve laminar flow. Laminisator is made of two parts with a special design that enables pendant lamp connection in the middle of the unit.

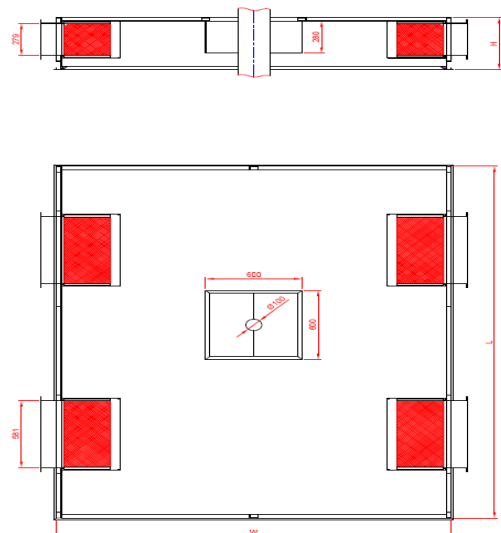
In Laminar flow unites for operation theatre applications, face velocity is taken between 0,2-0,3 m/s. Larger velocities from 0,3 m/s cause draught affect on people under the unite, on the other hand velocities smaller than 0,2 m/s cause deformations in laminar flow.



Product Code	Dimensions WxLxH (mm)	Surface Velocity		Flow		HEPA Filter		Pressure Losses	
		Min. (m/s)	Max. (m/s)	Min. (m³/h)	Max. (m³/h)	Model (H14 Optional)	Quantity	Initial (Pa)	Final (Pa)
LAF 12x24	1200x2400x450	0,2	0,3	2.074	3.110	HHV-H13-G40-305x610/C	2	200-300	600
LAF 14x24	1400x2400x450	0,2	0,3	2.419	3.629	HHV-H13-G40-305x610/C	2	200 - 300	600
LAF 16x24	1600x2400x450	0,2	0,3	2.765	4.147	HHV-H13-G40-305x610/C	2	200 - 300	600
LAF 18x24	1800x2400x450	0,2	0,3	3.110	4.666	HHV-H13-G40-305x610/C	4	200 - 300	600
LAF 24x24	2400x2400x450	0,2	0,3	4.147	6.221	HHV-H13-G40-305x610/C	4	200 - 300	600
LAF 18x30	1800x3000x450	0,2	0,3	3.888	5.832	HHV-H13-G40-305x610/C	4	200 - 300	600
LAF 24x30	2400x3000x450	0,2	0,3	5.184	7.776	HHV-H13-G40-305x610/C	4	200 - 300	600



• Technical drawing of 1200x2400



• Technical drawing of 2400x2400

CYLINDRICAL FILTERS

Specifications

- Maintenance costs are reduced with large filter surface
- Low pressure drop, less energy consumption
- Long service life with using high quality filter media
- Better cleaning efficiency
- Inner perforated galvanized metal allows good airflow for dust collection filters
- Inner and outer perforated galvanized metals protect glass fibre media for gas turbine filters
- Rubber or PU foam gasket to ensure airtight sealing
- Galvanized steel and caps have strong construction
- Hotmelt can be carried out on both inner and outer perforated metal to increase rigidity of pleats on request
- Self-supporting and rigid, easy mounted
- Equal spacing between each pleat enable air flow to pass through the filter media



Filter Paper Type for Ulpatek Cylindrical Filters

Polyester

Plain, Water and Oil repellent, Antistatic, PTFE membrane

Water repellent glass fibre

Synthetic & Glass Fibre

Cellulose & Synthetic Blend

Synthetic

Polyester

- Pleated dust collection cylindrical filters are made up of %100 right weight of spun bonded polyester media according to customer's request
- Suitable for the filtration of fine dust type in plastics, spray powder, sand blasting, pigment and wood industries
- Excellent moisture resistance and dust release properties
- Washable, durable and rigid material



It Is Suitable for The Filtration of Very Fine Dust in:

- Gas turbines
- Compressors
- Pharmaceutical industries
- Food industries
- Construction industries
- Sticky dust collections
- Welding processing
- Power plants

Air Intake Cylindrical Filters

- Modern and reliable for gas turbines and air compressors
- The variety and range of materials and specifications make it possible to find convenient filter media for any environmental conditions
- Using the quality of the materials ensures high performance standards



CHEMICAL FILTERS

Chemical filtration media is made up of pellet pieces that chemically absorb pollutants gases from the air. Chemical filtration media is not based on a carbon adsorption process as other air filtering systems. Media is instead specifically created to neutralize specific gases. This means that the pollutants gases are actually converted into harmless particles inside the filter and most filters will not become dangerous to handle. Chemical filtration has even more advantages. Ulpatek has a wide range of media granules each of which reacts to a specific pollutant. After a needs analysis, custom media mixes can be created to deal with a facility's healthy air and may be used to control corrosion.



Particle Size Examples

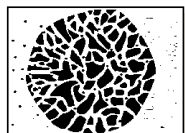
- **Solid Particulates** - 0.003 to 100 microns
 - smoke
 - dust
- **Liquids & vapors** - 1 to 9 microns
 - vapors
 - aerosols
- **Gases** - 0,0003 to 0,007 microns
 - hydrogen sulphur
 - chlorine



Chemical Filter Medias

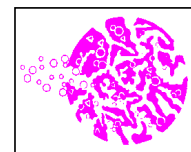
More than 15 medias effective against to specific broad spectrum gases.

The Basic Principles:



Adsorption : The process by which one substance is attracted to and held on the surface of another . It is a surface phenomenon.

Absorption: The penetration of one substance into the inner structure of another. The result of chemical reactions on and in the absorbent.



MARKETS / Usual some problems Industrial Market and solutions:



Industrial

- Engineering firms
- Petrochemical and Refineries
- Mining
- Pulp and Paper
- Gas treatment companies
- Pharmaceutical
- Chemical

1- Corrosion control for electrical components - corrosion control in general

Typical Gases : H₂S, SO₂, Cl₂, NH₃, ...

Solutions of medias : ULP-Bion+, ULP-Bion+/Ac, ULP-Biocarb KOH/KI

2- Control of emission (environmental control)

Typical Gases : VOC's, NOx,..

Solutions of medias : ULP-Bion AC, ULP- Bion+, ULP-Bion+/Ac, ULP-Biocarb KOH/KI

3- Health protection

Typical Gases : Formaldehyde, NaOH, HCl,...

Solutions of medias : ULP-Bion AC Active Max, ULP-Bion+/Ac, ULP-Bion Cl



Commercial

- Hospitals
- IVF centers
- Airports
- Business Climate
- Air Filtration Companies

1- Air cleaning (commercial area)

Typical Gases : H₂S, SO₂, Cl₂, NH₃, ...

Solutions of medias : ULP-Bion+, ULP-Bion+/Ac, ULP-Biocarb KOH/KI,

2- Air purification (clean room, hospitals, IVF,...)

Typical Gases : Environmental contamination

Solutions of medias : ULP-Bion AC, ULP-Bion+, ULP-Bion+/Ac, ULP-Biocarb KOH/KI

3- Archive and art protection :

Typical Gases : Environmental contamination

Solutions of medias : ULP-Bion AC Active Max, ULP-Bion+/Ac, ULP-Bion Cl



Municipal

- Biogas
- WWTP
- Landfills

1- WWTP : Odor control

Typical Gases : H₂S, Mercaptans, NH₃, ...

Solutions of medias : ULP-Bion+/Ac, ULP-Biocarb KOH/KI,

2- Biogas : Desulfurization , siloxanes removal,..

Typical Gases : H₂S

Solutions of medias : ULP- Biocarb KOH/KI, ULP-Bion Fe

Specifications

- High efficiency in gas removal
- Low pressure drop, save energy
- Low energy consumption

- Robust and air tight
- Easy assembly
- Standard sizes



Frame; Electrogalvanized steel

Gasket; Standard for cartridge

Media; Chemical media

Outside Diameter; 145mm

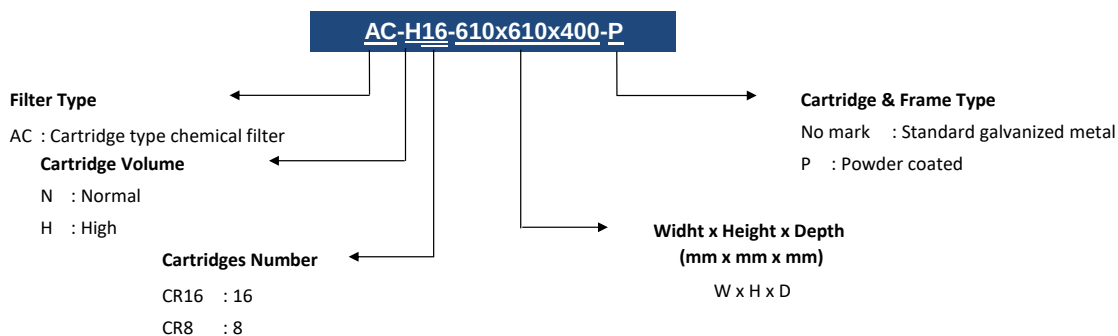
Recommended Prefiltration; F7 (EN779)

Recommended Temperature; 0 - 50°C

Recommended relative humidity; < 70% RH

*Each cartridge can be filled with any filtrating media to remove the desired gas such as hydrogen sulphide (H₂S), acids, (HCl, SO_x, NO_x...), bases (NH₃, amines...), VOC's, etc.

Filter Model	Filter Class	Dimensions WxHxD (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)	Catridges Number (pcs.)	Cartridge Volume (dm³)
AC-H8-305x610x400	Cartridge Filter	305x610x400	1200	150	8	>4,7
AC-H16-610x610x400	Cartridge Filter	610x610x400	2400	150	16	>4,7
AC-H8-305x610x450	Cartridge Filter	305x610x450	1280	150	8	>5,3
AC-H16-610x610x450	Cartridge Filter	610x610x450	2560	150	16	>5,3
AC-H8- 305x610x600	Cartridge Filter	305x610x600	1700	150	8	>7,0
AC-H16- 610x610x600	Cartridge Filter	610x610x600	3400	150	16	>7,0



Cartridge Model	Cartridge Type	Cartridge Volume (dm³)	Cartridge Airflow (m³/h)
CR-145N-400-P	N	3,9	150
CR-145N-450-P	N	4,4	160
CR-145N-600-P	N	5,9	212,5
CR-145H-400-P	H	4,7	150
CR-145H-450-P	H	5,3	160
CR-145H-600-P	H	7	212,5

*P: P means Powder coated frame

Frame Model	Dimensions WxHxD (mm)	Cartridge Numbers
UCF-16-610x610-P	610x610x70	16
UCF-12-508x610-P	508x610x70	12
UCF-8-305x610-P	305x610x70	8
UCF-4-305x305-P	305x305x70	4

*P: P means Powder coated frame



ULP-Bi-On AC ACTIVE MAX

Specifications

- It is an activated carbon of virgin grade, which is a bituminous carbon; thermally activated
- Contains no impregnates
- High gas removal capacity
- Large surface area
- In a multi-bed system, it works as a refining filter to eliminate gases with a high molecular weight

Target Pollutants

Hydrocarbons, Chlorine (Cl₂), Odors and Volatile Organic Compounds (VOC's)



Filter type ; Chemical Filter

Media type ; No impregnated

Characteristic ; High efficiency, activated carbon based

Application Areas

Commercial Buildings (Hospitals, IVF centers, Museums, Business Climate Air Filtration Companies, Airports, Morgues, Data Center, Cleanroom, Laboratories, Paint Plants, Kitchen Applications)

Characteristics	Value	Units
Pellet Diameter	3 or 4	mm
Bulk Density	500 ± 30	g/l
Surface Area	1050	m ² /g
Humidity	<4	%
Toluene Removal Capacity at 10 ppm	>14	% in weight
Benzene Removal Capacity at 100 ppm	>12	% in weight
Strength	>97	Kgf/cm
CTC	60	%
Gas Removal Process	Adsorption	-

Application Guidelines

ULP-Bi-On AC Active MAX works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH
- Media Performance: ULP- Bi-On AC Active MAX is designed for 60 – 99,9% min. removal efficiency

NOTE: Remaining life of the media can be determined by desorption tests performed in specialized laboratory.

Related Modules



Canister



Module PP12



Module PP18



ULP-Bi-On KOH

Specifications

- It is an activated carbon that has the greatest purity and big surface area
- Impregnated media that neutralizes acid gases with Potassium Hydroxide (KOH)
- Broad spectrum of gas removal

Target Pollutants

Hydrogen Sulfide (H₂S), Sulphur Dioxide (SO₂), Chlorine (Cl₂), Mercaptans, Acidic Gases

Filter type ; Chemical Filter

Media type ; Impregnated with Potassium Hydroxide (KOH)

Characteristic ; High efficiency, activated carbon based



Application Areas

Pulp and Paper Industry, Petrochemical Refineries, Mining, Steel Manufacturing Plants, Cleanrooms, Laboratories, Paint Plants

Characteristics	Value	Units
Pellet Diameter	4	mm
Bulk Density	580	g/l
Surface Area	1050	m ² /g
Humidity	15	%
H ₂ S Removal Capacity	26	% in weight
SO ₂ Removal Capacity	7	% in weight
Cl ₂ Removal Capacity	10	% in weight
CTC	70	%
Ignition Temperature	250	°C
Gas Removal Process	Chemisorption	-

Application Guidelines

ULP-Bi-On KOH works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE: Remaining life of the media can be determined by desorption tests performed in specialized laboratory.

Related Modules



Canister



Module PP12



Module PP18

ULP- Bi-On S

Specifications

- It is a bituminous activated carbon with Sulphur (S)
- Has excellent physical properties of the carbon and the high Sulphur content
- Absorbs until 60% by weight
- No risk of desorption because of chemical reaction ($Hg + S \rightarrow HgS$)
- Suitable for a wide temperature range and humidity
- The final product is stable



Target Pollutants

Mercury (Hg) vapours

Application Areas

Chlorine Production Plants, Landfill, Petrochemical Refineries

- Filter type** ; Chemical Filter
Media type ; Impregnated with Sulphur (S)
Characteristic ; High efficiency, activated carbon based

Characteristics	Value	Units
Pellet Diameter	4	mm
Bulk Density	586 ± 6	g/l
Surface Area	Min. 1050	m ² /g
Humidity	<1	%
Hg Removal Capacity	>60	% in weight
CTC	60	%
Gas Removal Process	Chemisorption	-

Application Guidelines

ULP-Bi-On S works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE :Remaining life of the media can be determined by desorption tests performed in specialized laboratory.

Related Product



DRUM SCRUBBER (DS)

- It is a machine for low air flows, that without mist and grease pre-filter, move from 85 to 6.500 m³/h
- Can be connected to a ventilation tube and be used like a passive system of smell or environment control.The most common applications are water treatment plants, and water sewage purification
- Does not have pre-filter, final filter or grease and mist eliminator. They are made of standard polyethylene

ULP-Bi-On ACPA

Specifications

- It is an activated carbon impregnated with Phosphoric Acid (H_3PO_4)
- Specific for basic gases

Target Pollutants

Ammonia (NH_3), Amines, Basic gases, Volatile Organic Compounds (VOC's)



Ammonia	Dimethylamine	Isobutylamine	Sec-butylamine
Bencyl amine	Ethylamine	Isopropyl amine	t-butyl amine
n-butyl amine	Ethylenediamine	Methylamine	Tetramethylamine
Cyclo exylamine	Phenylethylamine	Methylethylamine	Trimethylamine
Diethylamine	Hexamethylenediamine	n-Propylamine	

Filter type ; Chemical Filter

Media type ; Impregnated with Phosphoric Acid (H_3PO_4)

Characteristic ; High efficiency, activated carbon based

Application Areas

WWTP (Waste Water Treatment Plant), IVF center, Paint Factories

Characteristics	Value	Units
Particle Size	4x8 Granular	US Mesh
Bulk Density	580 ± 30	g/l
Surface Area	1052	m ² /g
Humidity	15	%
NH ₃ Removal Capacity	10	% in weight
CTC	60	%
Gas Removal Process	Chemisorption	-

Application Guidelines

ULP-Bi-On ACPA works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE :Remaining life of the media can be determined by desorption tests performed in specialized laboratory.

Related Modules



Canister



Module PP12



Module PP18

ULP-Bi-On NaOH

Specifications

- It is made of activated carbon of the greatest purity and of large surface area
- Highly effective with Hydrogen Sulphide (H₂S) and Mercaptanes
- In many cases the absorption capacity of the ULP-Bi-On NaOH can be restored by a two-phase caustic bath followed by water drainage

Target Pollutants

Mercaptans, Hydrogen Sulfide (H₂S)

Application Areas

Pulp and Paper Industry, Petrochemical Refineries, Mining, Waste Water Treatment Plant (WWTP)



Characteristics	Value	Units
Pellet Diameter	4	mm
Bulk Density	540 ± % 5	g/l
Surface Area	1050	m ² /g
Humidity	15	%
H ₂ S Removal Capacity	14	% in weight
CTC	60	%
Gas Removal Process	Chemisorption	-

- Filter type** ; Chemical Filter
- Media type** ; Impregnated with Sodium Hydroxide (NaOH)
- Characteristic** ; High efficiency, activated carbon based

NOTE :Remaining life of the media can be determined by desorption tests performed in specialized laboratory.

Related Modules



Canister



Module PP12



Module PP18

ULP-Bi-On Cl

Specifications

- It is impregnated with Sodium Thiosulphate ($\text{Na}_2\text{S}_2\text{O}_3 \cdot 5 \text{H}_2\text{O}$)
- Designed for adsorption of Chlorine and Acid Gases

Target Pollutants

Chlorine (Cl_2) and Acid gases

Application Areas

Pulp and Paper Industry, Sewage Water Disinfection, Waste Water Treatment Plant (WWTP) and laser cutting PVC fumes



Characteristics	Value	Units
Pellet Diameter	3 or 4	mm
Bulk Density	840	g/l
Hardness	4	Kgf/cm
Humidity	15	%
Cl_2 Removal Capacity	9	% in weight
Gas Removal Process	Chemisorption	-

Filter type ; Chemical Filter

Media type ; Impregnated with Sodium Thiosulphate ($\text{Na}_2\text{S}_2\text{O}_3 \cdot 5 \text{H}_2\text{O}$)

Characteristic ; High efficiency, zeolite based

NOTE :Remaining life of the media can be determined by desorption tests performed in specialized laboratory.

Related Modules



Canister



Module PP12



Module PP18

ULP-Bi-On Fe

Specifications

- It is a Hydrogen Sulphide (H_2S) scavenger in anaerobic atmosphere, consisting of Iron Hydroxide ($Fe(OH)_3$), blended into a proprietary pelletized support
- It's main application is the removal of Hydrogen Sulphur (H_2S) from anaerobic gas streams, e.g. biogas
- In the absence of oxygen, ULP-Bi-On Fe displays a higher Hydrogen Sulphur (H_2S) breakthrough capacity than a caustic impregnated activated carbon
- May undergo at least 10 cycles before exhaustion and disposal
- Each cycle results in the abatement of 45 mg H_2S per gram of ULP-Bi-On Fe



Target Pollutants

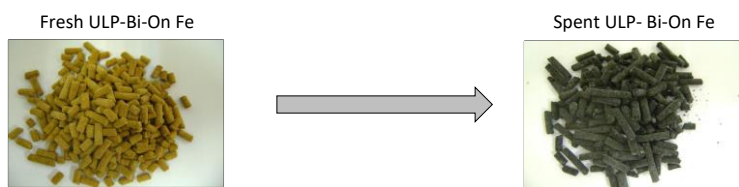
Hydrogen Sulphur (H_2S)

Application Areas

Biogas Plants

Characteristics	Value	Units
Pellet Diameter	3 or 4	mm
Bulk Density	850	g/l
Hardness	4	Kgf/cm
Humidity	<20	%
H_2S Removal Capacity by Cycle	4,5	% in weight
Number of Cycle	10	-
Gas Removal Process	Catalytic	-

Filter type ; Chemical Filter
Media type ; Impregnated with Iron compounds (Fe)
Characteristic ; High efficiency, zeolite based



NOTE : Colour change when the product is exhaust. Visual indicator of the product life. It turns from yellow to black when fully spent.

Related Modules



Canister



Module PP12



Module PP18

ULP-Bi-On +6 % / AC

Specifications

- It is a mixture of ULP-Bi-On +6% and activated carbon ULP-Bi-On AC
- This mix is offered in: 50% - 50% with a bulk density of 640 g/l, ULP-Bi-On +6 % contains 6% Potassium Permanganate (KMnO₄) and ULP-Bi-On AC
- Highly effective against to Hydrogen Sulphide (H₂S) and Mercaptans
- Also absorbs gases from engraving, cutting and laser processes
- Is not affected by high humidity
- Life time of ULP-Bi-On +6 % / AC is six times longer than filters containing active carbon (AC), so maintenance cost is reduced when ULP-Bi-On +6 % / AC is used



Target Pollutants

Hydrogen Sulfide (H₂S), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), Nitricoxide (NO), Hydrogen Chloride (HCl), Formaldehyde and Odours (solvent and thinner vapours or odours from paint and varnish, glue, rubber or cleaning agent vapours, food odours etc.)

Application Areas

Pulp and Paper Industry, Hospital, Museum, Petrochemical and Refineries etc.

Characteristics	Value		Units
	ULP-Bi-On +6 %	ULP-Bi-On AC	
Pellet Diameter	3 or 4	4	mm
Bulk Density	840	480±30	g/l
Surface Area	200 or 300	1052	m ² /g
Humidity	15	4	%
H ₂ S Removal Capacity	16	-	% in weight
SO ₂ Removal Capacity	6	-	% in weight
NO Removal Capacity	2,5	-	% in weight
NO ₂ Removal Capacity	8	-	% in weight
CCl ₄ Removal Capacity	-	55	% in weight
Gas Removal Process	Chemisorption	Adsorption	°C

Filter type ; Chemical Filter

Media type ; Impregnated with Potassium Permanganate (KMnO₄)

Characteristic ; High efficiency, zeolite based and activated carbon based

Application Guidelines

ULP-Bi-On +6 % / AC works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE : Colour change when the product is exhaust. Visual indicator of the product life. It turns from purple to brown when fully spent.

Related Modules



Canister



Module PP12



Module PP18

ULP-Bi-On +11 % / AC

Specifications

- It is a mixture of ULP-Bi-On +11% and activated carbon ULP-Bi-On AC
- This mix is offered in: 70%-30%, %50-%50, %30-%70 with a bulk density 720, 640 or 565 g/l
- ULP-Bi-On + contains 11% potassium permanganate and ULP-Bi-On AC contains no impregnates
- Highly effective against to Hydrogen Sulphide (H₂S) and Mercaptans
- Is not affected by high humidity
- Life time of ULP-Bi-On +11 % / AC is six times longer than filters containing active carbon (AC), so maintenance cost is reduced when ULP-Bi-On +11 % / AC is used



Target Pollutants

Hydrogen Sulfide (H₂S), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), Nitricoxide (NO), Hydrogen Chloride (HCl), Formaldehyde and Odours (solvent and thinner vapours or odours from paint and varnish, glue, rubber or cleaning agent vapours, food odours etc.)

Application Areas

Pulp and Paper Industry, Hospital, Museum, Petrochemical and Refineries etc.

Characteristics	Value		Units
	ULP-Bi-On +11 %	ULP-Bi-On AC	
Pellet Diameter	4	4	mm
Bulk Density	840	480±30	g/l
Surface Area	200 or 300	1052	m ² /g
Humidity	15	4	%
H ₂ S Removal Capacity	16	-	% in weight
SO ₂ Removal Capacity	6	-	% in weight
NO Removal Capacity	2,5	-	% in weight
NO ₂ Removal Capacity	8	-	% in weight
CCl ₄ Removal Capacity	-	55	% in weight
Gas Removal Process	Chemisorption	Adsorption	°C

- Filter type** ; Chemical Filter
- Media type** ; Impregnated with Potassium Permanganate (KMnO₄)
- Characteristic** ; High efficiency, zeolite based and activated carbon based

Application Guidelines

ULP-Bi-On +11 % / AC works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE : Colour change when the product is exhaust. Visual indicator of the product life. It turns from purple to brown when fully spent.

Related Modules



Canister



Module PP12



Module PP18



Specifications

- It is made of activated carbon of the greatest purity and impregnated with 2% KI to produce a high quality carbon with excellent adsorption properties
- Avoid problems, caused by toxic properties of mercury
 - Indicated for low residence time

Target Pollutants

Mercury (Hg), Radioactive Iodine and Iodine Organic Compounds

Application Areas

Chlorine production Plants, Landfill, Petrochemical Refineries

Specifications

- It is made of activated carbon of the greatest purity and impregnated with 4% KI to produce a high quality carbon with excellent adsorption properties
- Designed to remove formaldehyde and organic aldehydes
- Works very well with Sulphur compounds, Mercaptans, Dimethyl Disulphide (DMDS) and Hydrogen Sulfide (H₂S)

Target Pollutants

Hydrogen sulfide (H₂S), Sulphur Compounds (SO_x), Mercaptans,

Application Areas

Museum, Hospital, IVF centers, Airport, Morgue, Office Centers

Characteristics	Value		Units
	ULP-Bi-On KI % 2	ULP-Bi-On KI % 4	
Pellet Diameter	3 or 4	2, 3 or 4	mm
Bulk Density	560	560	g/l
Surface Area	1050	1050	m ² /g
Humidity	10	15	%
Formaldehyde Removal Capacity	-	27	% in weight
H ₂ S Removal Capacity	-	19	% in weight
Methyl Mercaptan Removal Capacity	-	17	% in weight
SO ₂ Removal Capacity	-	13	% in weight
Dimethyl Disulphide Removal Capacity	-	23	% in weight
Mercury (Hg) Removal Capacity	8	-	% in weight
Impregnated With (KI)	2	4	%
Gas Removal Process	Chemisorption	Chemisorption	-

Filter type ; Chemical Filter
Media type ; Impregnated with Potassium Iodide (KI)
Characteristic ; High efficiency, activated carbon based

Application Guidelines

ULP-Bi-On KI % 2 works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE : Remaining life of the media can be determined by desorption tests performed in specialized laboratory.



Related Modules



Canister



Module PP12



Module PP18

ULP-Bi-On +6%

Specifications

- It combines a process of physical nature and a chemical process (oxidation) to control gases
- Oxidized gases are converted into CO₂, water and salts
- Contains 6% Potassium Permanganate
- Higher efficiency and adsorption capacity than activated carbon

Target Pollutants

Hydrogen Sulfide (H₂S), Hydrogen Cyanide (HCN), Nitrogen Dioxide (NO₂), Nitricoxide (NO), Mercaptans

Filter type ; Chemical Filter
Media type ; Impregnated with Potassium Permanganate (KMnO₄)
Characteristic ; High efficiency, zeolite based

Application Areas

Pulp and Paper Industry, Hospital , Museum, Petrochemical and Refineries etc.



Characteristics	Value	Units
ULP-Bi-On +6%		
Pellet Diameter	4	mm
Bulk Density	840	g/l
Humidity	15	%
H ₂ S Removal Capacity	12	% in weight
SO ₂ Removal Capacity	✓	% in weight
NO Removal Capacity	✓	% in weight
NO ₂ Removal Capacity	✓	% in weight
Gas Removal Process	Chemisorption	-

Application Guidelines

ULP-Bi-On +6% works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE : Colour change when the product is exhaust. Visual indicator of the product life. It turns from purple to brown when fully spent.

Related Modules



Canister



Module PP12



Module PP18

ULP-Bi-On +11%

Specifications

- It combines a process of physical nature and a chemical process (oxidation) to control gases
- Oxidized gases are converted into CO₂, water and salts
- Contains 11% Potassium Permanganate
- Higher efficiency and adsorption capacity than activated virgin carbon

Target Pollutants

Hydrogen Sulfide (H₂S), Hydrogen Cyanide (HCN), Nitrogen Dioxide (NO₂), Nitric oxide (NO), Mercaptans

Filter type ; Chemical Filter
Media type ; Impregnated with Potassium Permanganate (KMnO₄)
Characteristic ; High efficiency, zeolite based

Application Areas

Pulp and Paper Industry, Hospital, Museum, Petrochemical and Refineries etc.



Characteristics	Value	Units
ULP-Bi-On +11%		
Pellet Diameter	4	mm
Bulk Density	840	g/l
Humidity	15	%
H ₂ S Removal Capacity	16	% in weight
SO ₂ Removal Capacity	6	% in weight
NO Removal Capacity	2,5	% in weight
NO ₂ Removal Capacity	8	% in weight
Gas Removal Process	Chemisorption	-

Application Guidelines

ULP-Bi-On +11% works under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE : Colour change when the product is exhaust. Visual indicator of the product life. It turns from purple to brown when fully spent.

Related Modules



Canister



Module PP12



Module PP18

AIR FILTER TECHNOLOGY / CARBON BASED MEDIA

ULP-Bi-On KOH

Specifications

- It is made of activated carbon of the greatest purity and of large surface area
- Impregnated with Potassium Hydroxide (KOH) against to acidic gases

Target Pollutants

Hydrogen Sulfide (H₂S), Sulphur Dioxide (SO₂), Chlorine (Cl₂), Mercaptans, Acidic Gases

ULP-Bi-On KOH ACT

Specifications

- It is made of activated carbon of the greatest purity and a large surface area, impregnated with 7% Potassium Hydroxide (KOH)

Target Pollutants

Hydrogen sulphide (H₂S) and Mercaptans

ULP-Biocarb KOH

Specifications

- It is made of activated carbon mixed with zeolites of the greatest purity and large surface area
- High Hydrogen Sulphide (H₂S) removal capacity

Target Pollutants

Hydrogen Sulfide (H₂S), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), Mercaptans

Characteristics	Value			Units
	ULP-Bi-On KOH	ULP-Bi-On KOH ACT	ULP-Biocarb KOH	
Pellet Diameter	4	4	3 or 4	mm
Bulk Density	580	580 ± 60	540	g/l
Surface Area	1050	>1000	-	m ² /g
Humidity	15	14	15	%
H ₂ S Removal Capacity	26	15	35	% in weight
SO ₂ Removal Capacity	7	✓	✓	% in weight
Cl ₂ Removal Capacity	10	✓	✓	% in weight
CTC	70	50	-	%
Ignition Temperature	250	250	425	° C
Gas Removal Process	Chemisorption	Physical and Chemical	Chemisorption	-

Filter type ; Chemical Filter
Media type ; Impregnated with Potassium Hydroxide (KOH)
Characteristic ; High efficiency, activated carbon based or zeolite based

Application Areas

Pulp and Paper Industry, Petrochemical Refineries, Mining, Steel Manufacturing Plants

Application Guidelines

ULP-Bi-On KOH, ULP-Bi-On KOH ACT, ULP-Biocarb KOH work under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH

NOTE : Remaining life of the media can be determined by desorption tests performed in specialized laboratory.

Related Modules



Canister



Module PP12



Module PP18



ADVANCED FILTRATION FOR A BETTER FUTURE!

AIR FILTER TECHNOLOGY / CARBON BASED MEDIA

ULP-Biocarb KOH KI

Specifications

- It is made of activated carbon mixed with zeolites of the highest purity and large surface area
- Catalytic process in which the Hydrogen Sulfide (H₂S) is transformed into elemental Sulfur (S)
- Works well with little oxygen, application in desulfurization of biogas
- Has higher Hydrogen Sulfide (H₂S) adsorption capacity than ULP- Biocarb KOH
 - Works exceptionally well in all scrubber systems

Target Pollutants

Hydrogen Sulfide (H₂S)

Application Areas

Treatment Plants, Pumping Stations, Desulfurization of Biogas (in non-aerobic conditions), Pulp and Paper Industry, Petrochemical Refineries

ULP-Bi-On KOH KI

Specifications

- It is an activated carbon of the greatest purity and of big surface area
 - Contains Potassium Hydroxide (KOH) against to acid gases
- Broad spectrum media with capacity impregnated with potassium iodide (KI)

Target Pollutants

Hydrogen Sulfide (H₂S), Sulphur Dioxide (SO₂), Mercaptans and VOC's

Application Areas

Biogas Plants

Characteristics	Value		Units
	ULP-Biocarb KOH KI	ULP-Bi-On KOH KI	
Pellet Diameter	3 or 4	4	mm
Bulk Density	480	580	g/l
Surface Area	1200	1050	m ² /g
Humidity	20	15	%
H ₂ S Removal Capacity	55	30	% in weight
Ignition Temperature	360	330	°C
Gas Removal Process	Chemisorption	Chemisorption	-

Filter type ; Chemical Filter
Media type ; Impregnated with Potassium Hydroxide (KOH) and Potassium Iodide (KI)
Characteristic ; High efficiency, activated carbon based or zeolite based

Application Guidelines

ULP-Biocarb KOH KI and ULP-Bi-On KOH KI work under the following application guidelines:

- Temperature: -20 °C till 50 °C (-4 F till 122 F)
- Humidity: 10 - 95% RH



NOTE : Remaining life of the media can be determined by desorption tests performed in specialized laboratory.

Related Modules



Canister



Module PP12



Module PP18



ADVANCED FILTRATION FOR A BETTER FUTURE!

www.ulpatek.com

ULP-Bi-On Triple Blend

Specifications

- ULP-Bi-On Triple Blend media removes the widest variety of odors and gases from applications where jet fuel fumes, diesel exhaust and automobile emissions are present
- Contains a 50:25:25 blend, respectively of ULP-Bi-On KOH, ULP-Bi-On AC and ULP-Bi-On +6 % engineered dry-chemical media. Each type of media targets a particular pollutant specific to engine exhaust ULP- Bi-On +6 % for removal of Nitric Oxide, Hydrogen Sulfide, Nitrogen Dioxide and ULP-Bi-On KOH for removal of acid gases - 95% of the total gaseous contaminants found in engine exhaust. ULP-Bi-On AC working in conjunction, remove most of the remaining contaminants
- Shall be an activated carbon for the control of Hydrocarbons, Odours with a high surface area available for adsorption
- Shall be composed of carbon, zeolite and other binders
- The media chemisorptive process shall remove contaminant gases by means of adsorption, absorption, and chemical reaction



Target Pollutants

Nitrogen Dioxide (NO₂), Nitric Oxide (NO), Sulfur Dioxide (SO₂), Organic Acids, Ozone (O₃), Other VOC's, Diesel exhaust and automobile emissions

Application Areas

Petrochemical Refineries, Landfill, Pulp and Paper Industry, Car Park, Waste Water Treatment Plant (WWTP), Airport, Mining, Gas Treatment Companies, Chemical Plants

Filter type ; Chemical Filter

Media type ; Impregnated with Potassium Permanganate (KMnO₄) , Potassium Hydroxide (KOH) and Virgin Active Carbon (AC)

Characteristic ; High efficiency, activated carbon based and zeolite based

Characteristics	Value			Units
	ULP-Bi-On KOH	ULP-Bi-On +6 %	ULP-Bi-On AC	
Pellet Diameter	4	3 or 4	4	mm
Bulk Density	580	840	500 ± 30	g/l
Surface Area	1050	>1000	1050	m ² /g
Humidity	15	15	4	%
H ₂ S Removal Capacity	26	12	-	% in weight
SO ₂ Removal Capacity	7	6	-	% in weight
Cl ₂ Removal Capacity	10	-	-	% in weight
Toluene Adsorption Capacity	-	-	>14	% in weight
CTC	70	-	55	%

Related Modules



Canister



Module PP12



Module PP18

AIR FILTER TECHNOLOGY

ACTIVATED CARBON FILTER WITH Z-LINE

Specifications

- Robust and air tight
- Low energy consumption
- Low pressure drop, save energy
- Easy assembly
- Grid at bothsides
- Standard sizes



Filter Class; G3

Media; Polyester fiber impregnated with carbon

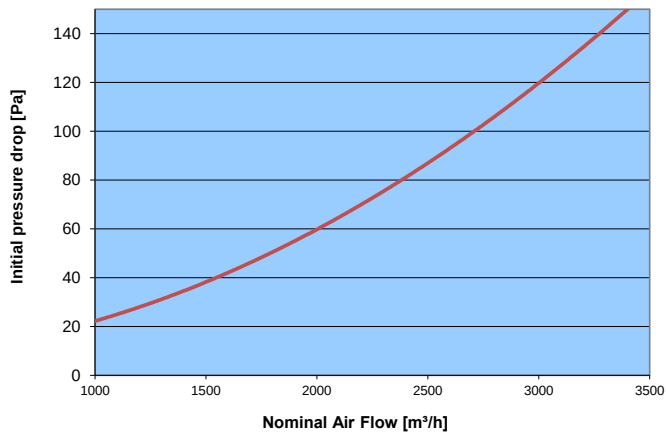
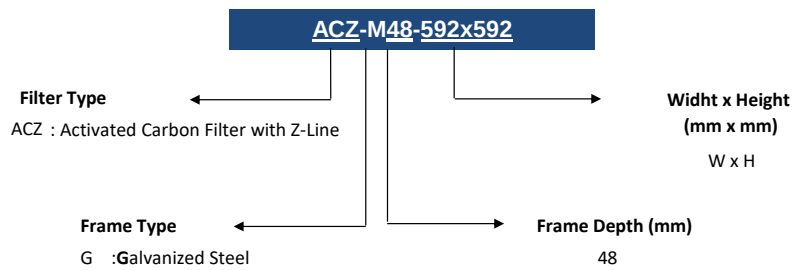
Frame type; Galvanized Steel

Standard depth; 48mm

Max. Operating Temperature; 40°C

Application; Prefilter for HVAC

Filter Model	Media Material	Dimensions WxHxD (mm)	Nominal Airflow (m³/h)	Initial Pressure Drop (Pa)
ACZ-M48-592x592	Activated carbon	592x592x48	2500	80
ACZ-M48-490x592	Activated carbon	490x592x48	2070	80
ACZ-M48-287x592	Activated carbon	287x592x48	1225	80
ACZ-M48-287x287	Activated carbon	287x287x48	625	80



ACZ-M48-592x592		
Filter Model	Z-Line	ACZ
Filter Capacity	Medium	M
Filter Depth	48mm	48
Filter Dimensions	WxH (mm)	592x592



ADVANCED FILTRATION FOR A BETTER FUTURE!



AIR **FILTER** TECHNOLOGY

DAHA İYİ BİR GELECEK İÇİN YÜKSEK KALİTELİ FİLTASYON !

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