

CONFIDENCE AIR



AIR FILTER TECHNOLOGY

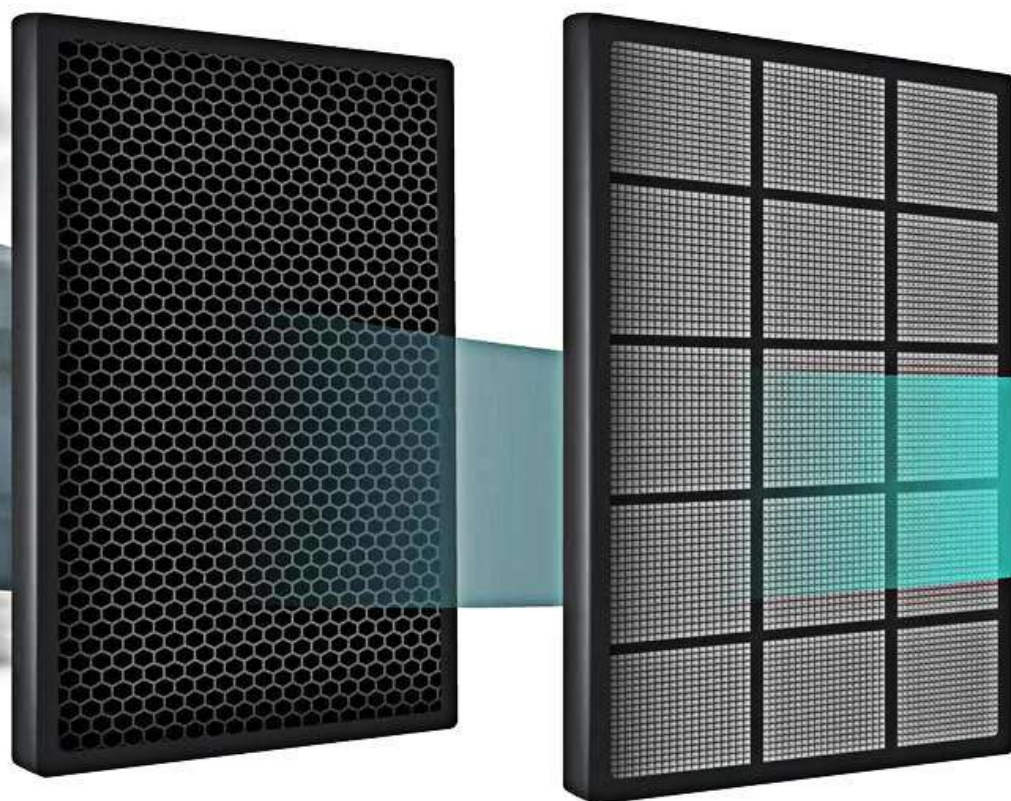


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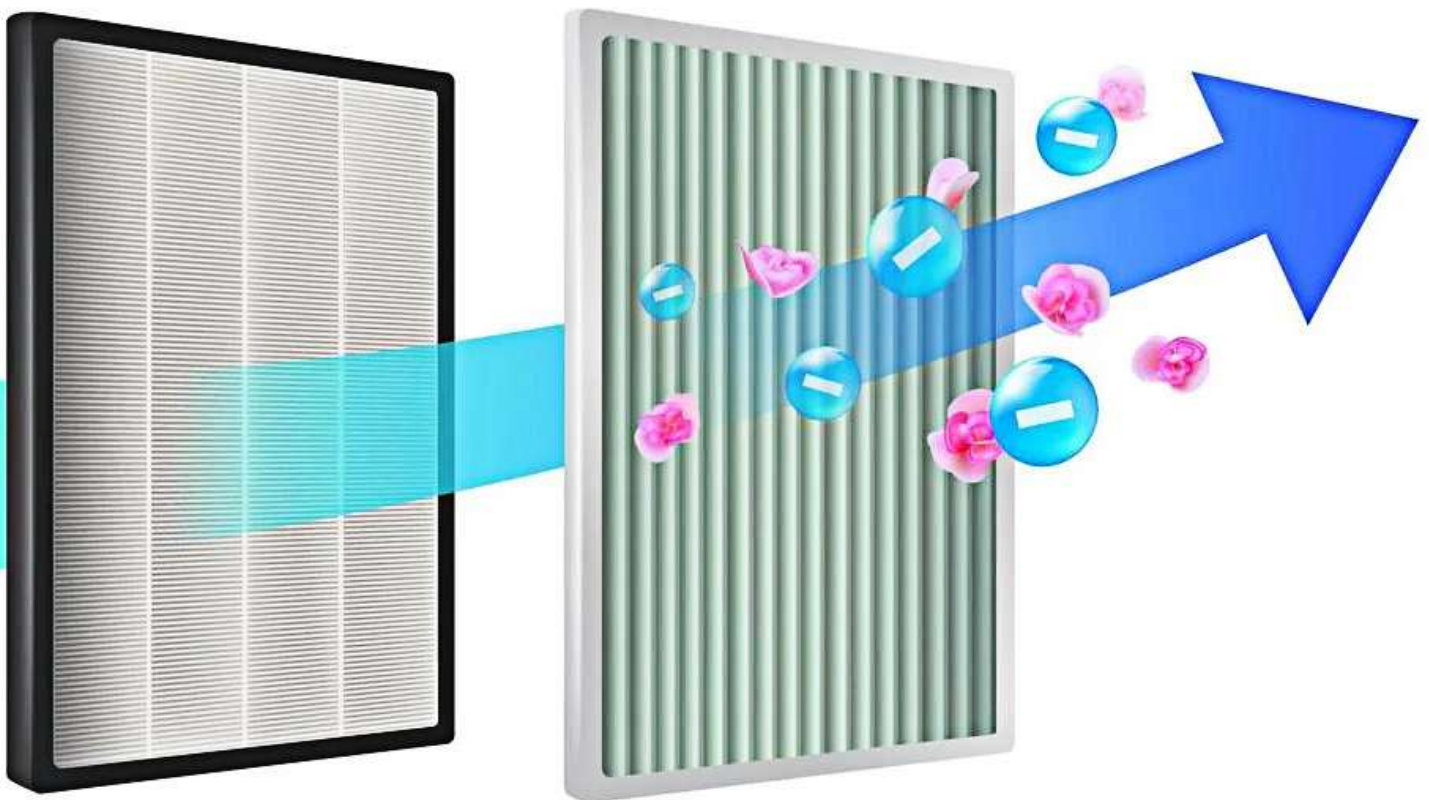
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About Confidence Air



Confidence Air has been established to produce suitable solutions for all kinds of filtration demands with its young, dynamic staff and customer satisfaction-based service approach.

Our company, which has high-quality product groups and fast service facilities in all areas that need fresh air and equipment to meet the demands, aims to become one of the sector's pioneers in a short time.

» Standards

EN 779:2012

EN 779:2012 Standard classifies air filters according to the lowest filtration efficiency. Particle size that forms a basis to the efficiency is regarded as 0,4 µm and filters are separated into three groups. These groups are; G, M and F.

EN 779:2012 CLASSIFICATION					
Group	Class	Final Pressure Drop (Pa)	Average Arrestance of Synthetic Dust (%)	Average Arrestance 0,4µ Particles (%)	Minimum Efficiency of 0,4µ Particles (%)
Coarse	G1	250	$50 \leq Am \leq 65$	-	-
	G2	250	$65 \leq Am \leq 80$	-	-
	G3	250	$80 \leq Am \leq 90$	-	-
	G4	250	$90 \geq Am$	-	-
Medium	M5	450	-	$40 \leq Em \leq 60$	-
	M6	450	-	$60 \leq Em \leq 80$	-
Fine	F7	450	-	$80 \leq Em \leq 90$	35
	F8	450	-	$90 \leq Em \leq 95$	55
	F9	450	-	$95 \leq Em$	70

ISO 16890

ISO 16890 Standard is a global testing standard that entered into force in the year 2018. ISO 16890 Standard, used for the classification of air filters has replaced EN 779:2012 Standard. Since EN 779:2012 could not determine how a filter performs against other particles found in the air while it tests an air filter's capturing capability for 0,4µm particle size only, ISO 16890, which puts air filters' capturing capabilities into test with particles on a broader spectrum (0,3µm-10µm), came into effect. The ISO 16890 Standard divides air filters into four groups. The prerequisite for each group is for the filter to capture at least 50% of the appropriate particle size.

For instance, if a filter can capture more than 50% of PM1* particles, it is classified as a ISO ePM1 filter.

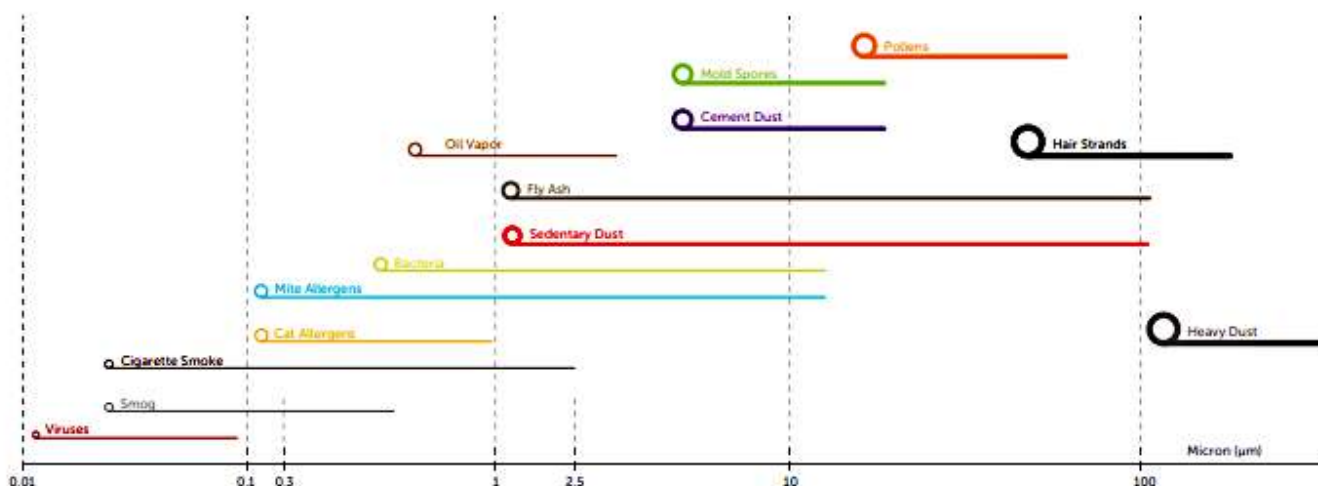
» Standards

ISO 16890

FILTER GROUPS				
ISO GROUP	Min. Requirement			Class Reporting Value
	ePM1 min.	ePM2.5 min.	ePM10 min.	
ISO Coarse	-	-	<50%	Initial gravimetric arrastance
ISO ePM10	-	-	≥50%	ePM10
ISO ePM2.5	-	≥50%	-	ePM2.5
ISO ePM1	≥50%	-	-	ePM1

PARTICLE DIAMETER SIZE RANGE	
Efficiency	Size Range
ePM10	$0,3 \geq x \geq 10$
ePM2.5	$0,3 \geq x \geq 2,5$
ePM1	$0,3 \geq x \geq 1$

SIZE OF POLLUTANTS IN AIR



OLD STANDARD EN 779
Filter classes F7-F8-F9 M5-M6 G2-G3-G4
The evaluation is carried out with a particle size of only 0,4 µm
Determining of average efficiency/arrestance after loading synthetic dust. Mean of test measurements at 0,4 µm particulate size.
Dust holding capacity for synthetic test dust ASHRAE
Test final Δp G1, G2, G3, G4 = 250 Pa M5, M6, F7, F8, F9 = 450 Pa

NEW STANDARD ISO 16890
Four ISO groups ISO ePM ₁ ISO ePM _{2,5} ISO ePM ₁₀ ISO Coarse
The evaluation is carried out with a particle size from 0,3 µm-10 µm
The efficiency is measured according to the particle range. Measuring efficiencies after 24 hours of IPA process. Calculating the ePM _x efficiency with mean of test measurements.
Dust holding capacity for synthetic test dust ISO A2/AC Fine
Test final Δp ePM10 < 50% = 200 Pa ePM10 ≥ 50% = 300 Pa

» Coarse Filters

» Rolls

Media	Synthetic
Final Pressure Drop	250 Pa
Operating Temperature	80°C
Filter Efficiency	G2-G3-G4
Filter Class	ISO Coarse

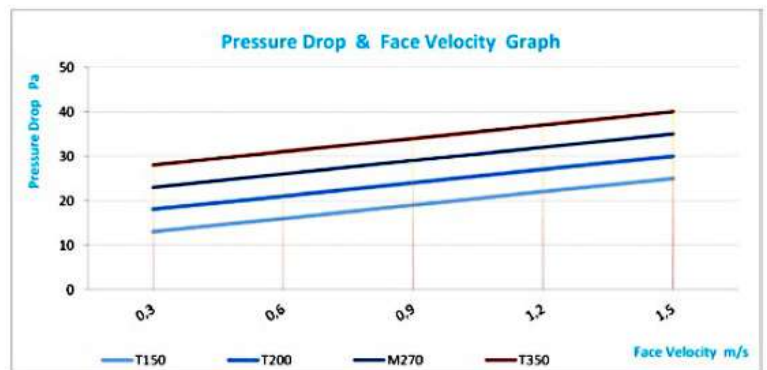


Applications

- Pre-filter for HVAC
- Electrical switchboards
- Industrial plants

Advantages

- Customized dimensions
- Depth loading
- High dust holding capacity



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (m)	Length (m)	Thickness (mm)			
G2	Coarse 30%	2	20	10	40,00	1700	25
G3	Coarse 40%	2	20	15	40,00	2500	25
G4	Coarse 60%	2	20	20	40,00	3400	25

» Coarse Filters

» Rolls

Media	Fiberglass
Final Pressure Drop	250 Pa
Operating Temperature	PS: 120°C, DS: 100°C
Filter Efficiency	G2-G3-G4
Filter Class	ISO Coarse

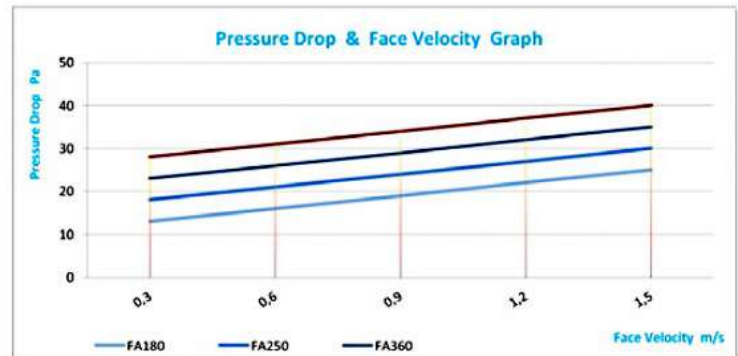


Applications

- DS, Pre-filter for HVAC
- Pre-filtration for gas turbines
- PS, Painting booths

Advantages

- Customized dimensions
- High dust holding capacity
- Cost saving
- Prevention of machine damage



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (m)	Length (m)	Thickness (mm)			
G2	ISO Coarse 30%	2	20	25	40,00	5000	25
G3	ISO Coarse 40%	2	20	50	40,00	5000	35
G4	ISO Coarse 60%	2	20	100	40,00	5000	40

» Coarse Filters

» Z-Line Filter

Media	Synthetic
Final Pressure Drop	250 Pa
Operating Temperature	80°C
Filter Efficiency	G3-G4
Filter Class	ISO Coarse
Frame	Galvanized Steel

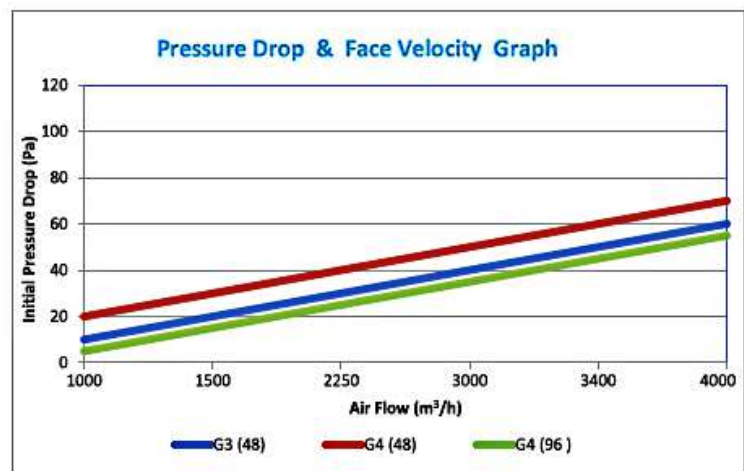


Applications

- Pre-filter for HVAC

Advantages

- Used as pre-filter or second-stage filter
- Low initial pressure drop
- High dust holding capacity

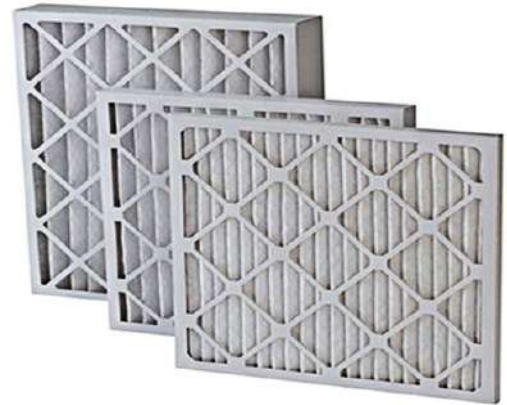


EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m²)	Air Flow (m³/h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)			
G3	COARSE >40%	592	592	48	0,60	3400	50
G3	COARSE >40%	492	592	48	0,50	2500	50
G3	COARSE >40%	287	592	48	0,30	1700	50
G4	ISO Coarse 60%	592	592	48	0,80	3400	70
G4	ISO Coarse 60%	492	592	48	0,60	2500	70
G4	ISO Coarse 60%	287	592	48	0,40	1700	70
G4	ISO Coarse 60%	592	592	96	1,60	3400	80
G4	ISO Coarse 60%	492	592	96	1,20	2500	80
G4	ISO Coarse 60%	287	592	96	0,80	1700	80

» Coarse Filters

» Cardboard Z

Media	Synthetic
Final Pressure Drop	250 Pa
Operating Temperature	75°C
Filter Efficiency	G4
Filter Class	ISO Coarse
Frame	Cardboard

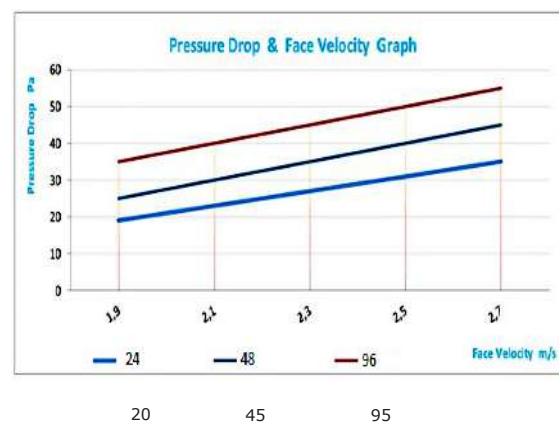


Applications

- Pre-filter for HVAC

Advantages

- Disposable
- Moisture resistant cardboard frame
- Low initial pressure drop
- Metal free
- Incinerable



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)			
G4	ISO Coarse 70%	289	595	20	0,24	1700	90
G4	ISO Coarse 70%	495	595	20	0,42	2500	90
G4	ISO Coarse 70%	595	595	20	0,50	3400	90
G4	ISO Coarse 70%	289	595	45	0,60	1700	75
G4	ISO Coarse 70%	495	595	45	1,00	2500	75
G4	ISO Coarse 70%	595	595	45	1,20	3400	75
G4	ISO Coarse 70%	289	595	95	1,30	1700	70
G4	ISO Coarse 70%	495	595	95	2,23	2500	70
G4	ISO Coarse 70%	595	595	95	2,60	3400	70

» Coarse Filters

» Metal Filters

Media	Galvanized Wire
Final Pressure Drop	250 Pa
Operating Temperature	200°C
Filter Efficiency	G1
Filter Class	ISO Coarse
Frame	Galvanized Steel,

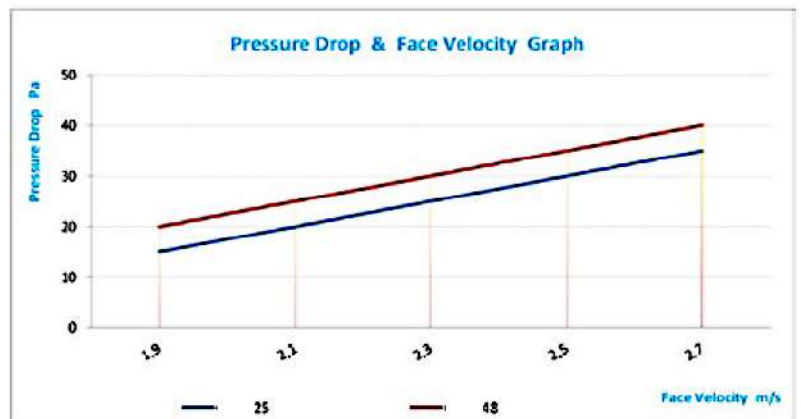


Applications

- Pre-filter for gas turbine applications
- Smoke fume aspirations, sparkle filtration

Advantages

- Washable for repeated use
- Low pressure drop
- High temperature
- Corrosive environments
- Large bulky contaminants
- Oil mist or grease separation



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)		
G1	ISO Coarse 30%	287	592	48	2250	60
G1	ISO Coarse 30%	492	592	48	3400	60
G1	ISO Coarse 30%	592	592	48	4250	60

» Coarse Filters

» Poliuretanan Media Z-Line Filter

Media	Polyurethane
Final Pressure Drop	250 Pa
Operating Temperature	70°C
Filter Efficiency	G2, G3
Filter Class	ISO Coarse
Frame	Galvanized Steel,

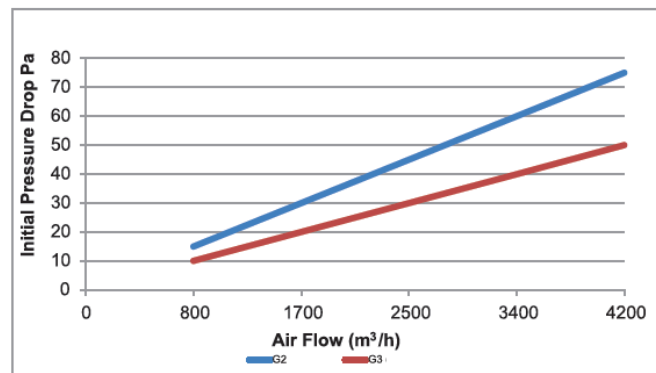


Applications

- Pre-filter for HVAC

Advantages

- Used as pre-filter or second-stage filter
- Low start pressure drop
- High dust holding capacity
- Reduced operating costs
- Washable for repeated use



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m²)	Air Flow (m³/h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)			
G2	COARSE >20%	592	592	48	0,60	3400	35
G2	COARSE >20%	490	592	48	0,5	2800	35
G2	COARSE >20%	287	592	48	0,30	1700	35
G3	COARSE >40%	592	592	48	0,60	3400	50
G3	COARSE >40%	490	592	48	0,5	2800	50
G3	COARSE >40%	287	592	48	0,30	1700	45

» Coarse Filters

» G3-G4 Bag Filter

Media	Polyester
Final Pressure Drop	250 Pa
Operating Temperature	80°C
Filter Efficiency	G3, G4
Filter Class	ISO Coarse
Frame	Galvanized Steel,

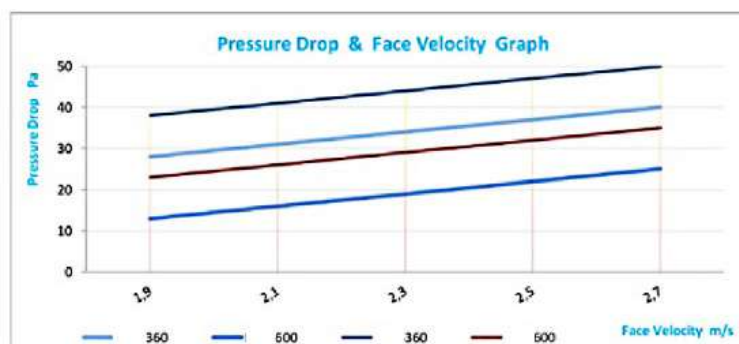


Applications

- General ventilation and air conditioning equipment

Advantages

- Used as pre-filter or second-stage filter
- Low start pressure drop
- High dust holding capacity
- Reduced operating costs
- Provides long service interval



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)	Number of Pockets
		Width (mm)	Length (mm)	Depth (mm)				
G3	ISO Coarse 50%	592	592	600	5,00	3400	40	6
G3	ISO Coarse 50%	490	592	600	4,20	2800	40	5
G3	ISO Coarse 50%	287	592	600	2,50	1700	40	3
G3	ISO Coarse 50%	592	592	360	3,00	3400	45	6
G3	ISO Coarse 50%	490	592	360	2,50	2800	45	5
G3	ISO Coarse 50%	287	592	360	1,50	1700	45	3
G4	ISO Coarse 60%	592	592	600	5,00	3400	50	6
G4	ISO Coarse 60%	490	592	600	4,20	2800	50	5
G4	ISO Coarse 60%	287	592	600	2,50	1700	50	3
G4	ISO Coarse 60%	592	592	360	3,00	3400	60	6
G4	ISO Coarse 60%	490	592	360	2,50	2800	60	5
G4	ISO Coarse 60%	287	592	360	1,50	1700	60	3

» Coarse Filters

» M5-M6 Bag Filter

Media	Synthetic
Final Pressure Drop	250 Pa
Operating Temperature	80°C
Filter Efficiency	M5, M6
Filter Class	ISO Coarse - ISO ePM10
Frame	Galvanized Steel,

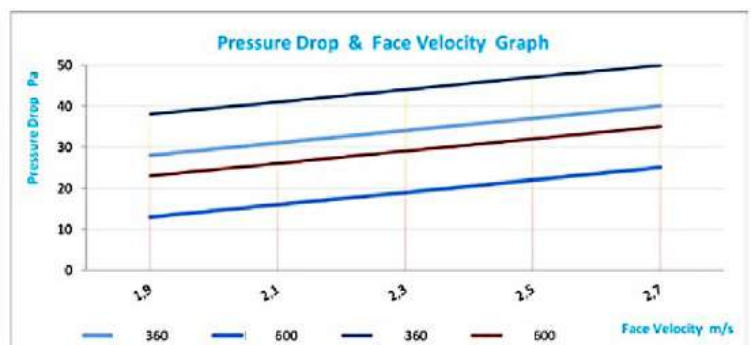


Applications

- Conditioning and ventilation systems

Advantages

- Used as pre-filter or second-stage filter
- Low start pressure drop
- High dust holding capacity
- Reduced operating costs
- Provides long service interval



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)	Number of Pockets
		Width (mm)	Length (mm)	Depth (mm)				
M5	ISO ePM10 50%	592	592	600	5,60	3400	45	6
M5	ISO ePM10 50%	287	592	600	2,10	1700	45	3
M5	ISO ePM10 50%	592	592	360	2,50	3400	55	6
M5	ISO ePM10 50%	287	592	360	1,20	1700	55	3
M5	ISO ePM10 50%	592	592	600	5,60	3400	45	8
M5	ISO ePM10 50%	287	592	600	2,80	1700	45	4
M5	ISO ePM10 50%	592	592	360	2,50	3400	55	8
M5	ISO ePM10 50%	287	592	360	1,20	1700	55	4
M6	ISO ePM10 55%	592	592	600	5,60	3400	60	8
M6	ISO ePM10 55%	287	592	600	2,80	1700	60	4

» Fine Filters

» M5-M6-F7-F8 Filters

Media	Synthetic
Final Pressure Drop	300 Pa
Operating Temperature	80°C
Filter Efficiency	M5-M6-F7-F8
Filter Class	ISO ePM10 / ISO ePM2,5 / ISO ePM1
Frame	Galvanized Steel,

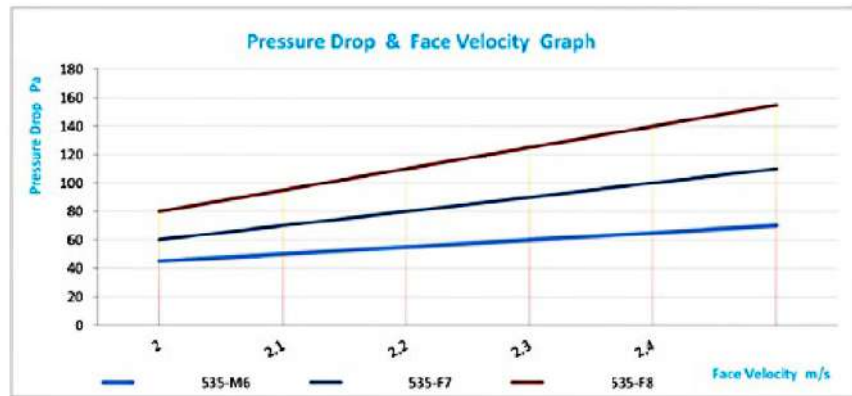


Applications

- In ventilation and air conditioning systems

Advantages

- Fine filtering keeps airborne particles and aerosols
- Large filtration surface, high flow rate, low initial pressure drop
- Provides low operating costs



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)	Number of Pockets
		Width (mm)	Length (mm)	Depth (mm)				
M5	ISO ePM10 55%	592	592	560	4,60	2250	40	6
M5	ISO ePM10 55%	287	592	560	2,30	1125	40	3
M6	ISO ePM10 65%	592	592	560	4,60	2250	50	6
M6	ISO ePM10 65%	287	592	560	2,30	1125	50	3
M6	ISO ePM10 65%	592	592	560	6,20	2250	40	8
M6	ISO ePM10 65%	287	592	560	3,10	1125	40	4

» **Fine Filters**
 » **M5-M6-F7-F8 Filters**

EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)	Number of Pockets
		Width (mm)	Length (mm)	Depth (mm)				
F7	ISO ePM1 55%	592	592	560	4,60	2250	80	6
F7	ISO ePM1 55%	287	592	560	2,30	1125	80	3
F7	ISO ePM1 55%	592	592	560	6,20	2250	70	8
F7	ISO ePM1 55%	287	592	560	3,10	1125	70	4
F7	ISO ePM1 55%	490	592	560	4,70	1870	70	6
F7	ISO ePM1 55%	490	592	560	3,80	1870	80	5

EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)	Number of Pockets
		Width (mm)	Length (mm)	Depth (mm)				
F8	ISO ePM1 65%	592	592	560	4,60	2250	115	6
F8	ISO ePM1 65%	287	592	560	2,30	1125	115	3
F8	ISO ePM1 65%	592	592	560	6,20	2250	100	8
F8	ISO ePM1 65%	287	592	560	3,10	1125	100	4
F8	ISO ePM1 65%	490	592	560	4,70	1870	100	6
F8	ISO ePM1 65%	490	592	560	3,80	1870	80	5

» Fine Filters

» M6-F7-F8-F9 Filters

Media	Microglass Fiber
Final Pressure Drop	450 Pa
Operating Temperature	80°C
Filter Efficiency	M6-F7-F8-F9
Filter Class	ISO ePM10 / ISO ePM1
Frame	Galvanized Steel, Plastic

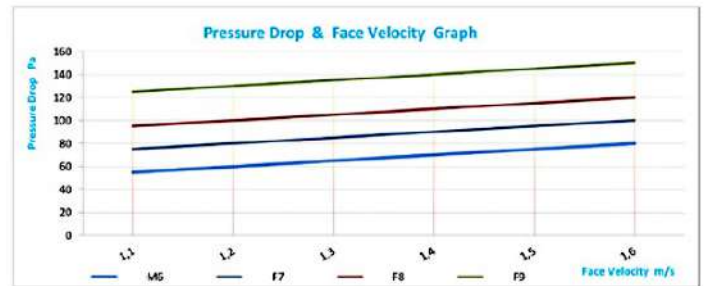


Applications

- In ventilation and air conditioning systems

Advantages

- For high efficiency air filtration
- Reduced dimensions and high flow filter units
- Rigid structure provides excellent precision filtration



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)			
M6	ISO ePM10 60%	287	592	48	3,00	1000	65
M6	ISO ePM10 60%	492	592	48	5,00	1600	65
M6	ISO ePM10 60%	592	592	48	6,00	2000	65
M6	ISO ePM10 60%	287	592	96	5,50	1450	80
M6	ISO ePM10 60%	492	592	96	9,00	2400	80
M6	ISO ePM10 60%	592	592	96	11,00	2900	80

» **Fine Filters**
 » **M6-F7-F8-F9 Filters**

EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)			
F7	ISO ePM1 50%	287	592	48	3,00	1000	80
F7	ISO ePM1 50%	492	592	48	5,00	1600	80
F7	ISO ePM1 50%	592	592	48	6,00	2000	80
F7	ISO ePM1 50%	287	592	96	5,50	1450	90
F7	ISO ePM1 50%	492	592	96	9,00	2400	90
F7	ISO ePM1 50%	592	592	96	11,00	2900	90

EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)			
F8	ISO ePM1 65%	287	592	48	3,00	1000	100
F8	ISO ePM1 65%	492	592	48	5,00	1600	100
F8	ISO ePM1 65%	592	592	48	6,00	2000	100
F8	ISO ePM1 65%	287	592	96	5,50	1450	105
F8	ISO ePM1 65%	492	592	96	9,00	2400	105
F8	ISO ePM1 65%	592	592	96	11,00	2900	105

EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)			
F9	ISO ePM1 80%	287	592	48	3,00	1000	145
F9	ISO ePM1 80%	492	592	48	5,00	1600	145
F9	ISO ePM1 80%	592	592	48	6,00	2000	145
F9	ISO ePM1 80%	287	592	96	5,50	1450	150
F9	ISO ePM1 80%	492	592	96	9,00	2400	150
F9	ISO ePM1 80%	592	592	96	11,00	2900	150

» Rigid Pocket Filters

» M6-F7-F8-F9 Filters

Media	Glass Fiber & Hot Melt
Final Pressure Drop	450 Pa
Operating Temperature	80°C
Filter Efficiency	M6-F7-F8-F9
Filter Class	ISO ePM10 / ISO ePM1
Frame	Plastic

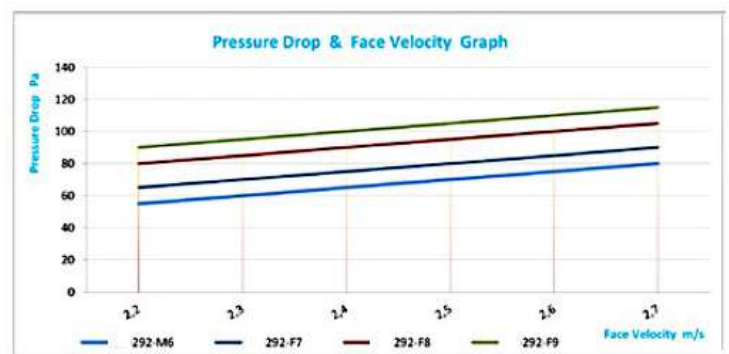


Applications

- HVAC
- Cleanroom applications

Advantages

- For high efficiency air filtration
- Reduced dimensions and high flow filter units
- Rigid structure provides excellent precision filtration
- V type increased surface, high flow rate, low initial pressure drop
- Long service life in a group of fine filters



EN 779:2012 Efficiency	ISO 16890 Class	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
		Width (mm)	Length (mm)	Depth (mm)			
M6	ISO ePM10 65%	592	292	292	9,00	1750	65
M6	ISO ePM10 65%	592	492	292	15,00	2800	65
M6	ISO ePM10 65%	592	592	292	18,00	3400	65
F7	ISO ePM1 50%	592	292	292	9,00	1750	78
F7	ISO ePM1 50%	592	492	292	15,00	2800	78
F7	ISO ePM1 50%	592	592	292	18,00	3400	78
F8	ISO ePM1 65%	592	292	292	9,00	1750	92
F8	ISO ePM1 65%	592	492	292	15,00	2800	92
F8	ISO ePM1 65%	592	592	292	18,00	3400	92
F9	ISO ePM1 80%	592	292	292	9,00	1750	115
F9	ISO ePM1 80%	592	492	292	15,00	2800	115
F9	ISO ePM1 80%	592	592	292	18,00	3400	115

» [EPA, HEPA & ULPA FILTERS](#)

» [EN 1822](#)

The EN 1822 Standard involves efficient, high-efficient and ultra-low permeability air filters (EPA, HEPA & ULPA) used in ventilating and air-conditioning, cleanroom technologies or applications in nuclear and pharmaceutical industries.

Their classification is based on the measuring of the size of particles (MPPS) passing to the clean side at a specific air speed.

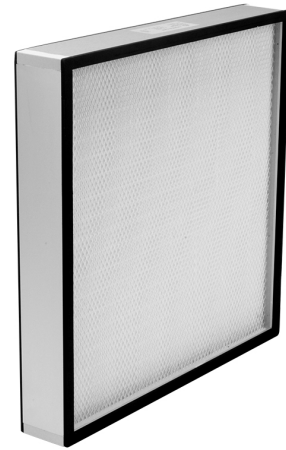
EN 1822 reports must show average and local efficiency at the stated flow rate, initial pressure drop and class of the filter.

FILTER CLASSIFICATION		EFFICIENCY (%) @MPPS		PENETRATION (%) @MPPS	
EN 1822	Overall Value	Local Value	Overall Penetration	Local Penetration	
E10	85	-	15	-	
E11	95	-	5	-	
E12	99.50	-	0.5	-	
H13	99.95	99.75	0.05	0.25	
H14	99.995	99.975	0.005	0.025	
U15	99.9995	99.9975	0.0005	0.0025	
U16	99.99995	99.99975	0.00005	0.00025	
U17	99.999995	99.9999	0.000005	0.0001	

» Absolute Filters

» EPA, HEPA & ULPA

Media	Microglass Fiber
Final Pressure Drop	600 Pa
Operating Temperature	80°C
Filter Efficiency	E10-U15
Gasket	Half Round Endless Polyurethane
Frame	Extruded Anodized Aluminium (47 mm)

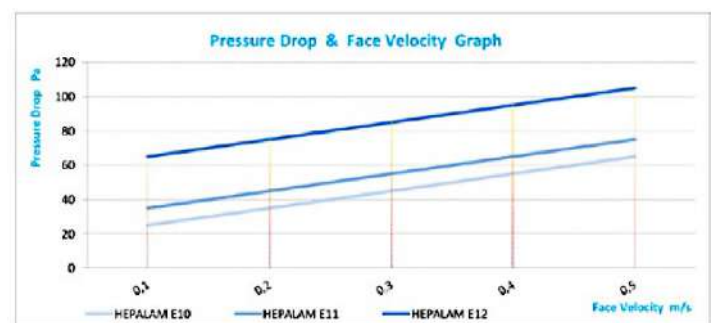


Applications

- Air conditioning systems
(Hospitals, Laboratories, Museums)
- Industrial processes
(Pharmaceutical, Food, Microelectronics)

Advantages

- For high efficiency air filtration
- Reduced dimensions and high flow filter units
- Rigid structure provides excellent precision filtration
- High flow rate, low initial pressure drop



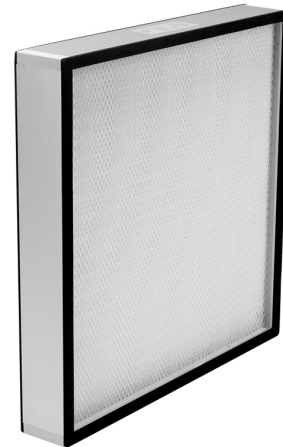
Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
E10	457	610	47	2,9	225	50
E10	305	610	47	1,9	150	50
E10	610	610	47	3,9	300	50
E11	457	610	47	2,9	225	70
E11	305	610	47	1,9	150	70
E11	610	610	47	3,9	300	70
E12	457	610	47	2,9	225	95
E12	305	610	47	1,9	150	95
E12	610	610	47	3,9	300	95
H13	457	610	47	2,9	225	110
H13	305	610	47	1,9	150	110
H13	610	610	47	3,9	300	110

» **Absolute Filters**

» **EPA, HEPA & ULPA**

Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
H14	457	610	47	2,9	225	120
H14	305	610	47	1,9	150	120
H14	610	610	47	3,9	300	120
U15	457	610	47	2,9	225	140
U15	305	610	47	1,9	150	140
U15	610	610	47	3,9	300	140

Media Microglass Fiber
Final Pressure Drop 600 Pa
Operating Temperature 80°C
Filter Efficiency E10-U15
Gasket Half Round Endless Polyurethane
Frame Extruded Anodized Aluminium (55 mm)

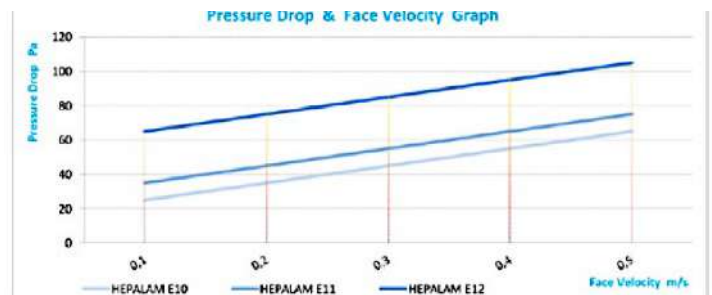


Applications

- Air conditioning systems (Hospitals, Laboratories, Museums)
- Industrial processes (Pharmaceutical, Food, Microelectronics)

Advantages

- For high efficiency air filtration
- Reduced dimensions and high flow filter units
- Rigid structure provides excellent precision filtration
- High flow rate, low initial pressure drop
- Long service life in a group of fine filters



» Absolute Filters

» EPA, HEPA & ULPA

Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
E10	457	610	55	5,5	315	50
E10	305	610	55	3,6	210	50
E10	610	610	55	7,3	420	50
E11	457	610	55	5,5	315	70
E11	305	610	55	3,6	210	70
E11	610	610	55	7,3	420	70
E12	457	610	55	5,5	315	95
E12	305	610	55	3,6	210	95
E12	610	610	55	7,3	420	95
H13	457	610	55	5,5	315	110
H13	305	610	55	3,6	210	110
H13	610	610	55	7,3	420	110

Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
H14	457	610	55	5,5	315	120
H14	305	610	55	3,6	210	120
H14	610	610	55	7,3	420	120
U15	457	610	55	5,5	315	140
U15	305	610	55	3,6	210	140
U15	610	610	55	7,3	420	140

» Absolute Filters

» EPA, HEPA & ULPA

Media	Microglass Fiber
Final Pressure Drop	600 Pa
Operating Temperature	80°C
Filter Efficiency	E10-U15
Gasket	Half Round Endless Polyurethane
Frame	Extruded Anodized Aluminium (90-150mm)

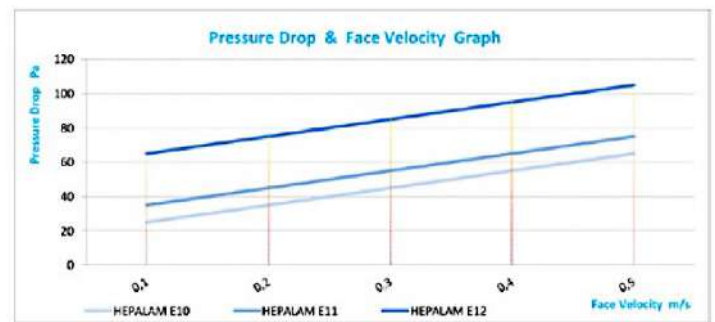


Applications

- Air conditioning systems
(Hospitals, Laboratories, Museums)
- Industrial processes
(Pharmaceutical, Food, Microelectronics)

Advantages

- To be used for absolute air filtration in controlled contamination environments clean rooms, laminar flow benches and operating theatres



Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
E10	457	610	90	9,4	450	35
E10	305	610	90	6,2	300	35
E10	610	610	90	12,5	600	35
E11	457	610	90	9,4	450	70
E11	305	610	90	6,2	300	45
E11	610	610	90	12,5	600	45
E12	457	610	90	9,4	450	75
E12	305	610	90	6,2	300	75
E12	610	610	90	12,5	600	75
H13	457	610	90	9,4	450	90
H13	305	610	90	6,2	300	90
H13	610	610	90	12,5	600	90

» **Absolute Filters**

» **EPA, HEPA & ULPA**

Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
H14	457	610	90	9,4	450	100
H14	305	610	90	6,2	300	100
H14	610	610	90	12,5	600	100
U15	457	610	90	9,4	450	120
U15	305	610	90	6,2	300	120
U15	610	610	90	12,5	600	120

Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
E10	457	610	150	7,8	450	50
E10	305	610	150	5,2	300	50
E10	610	610	150	10,4	600	50
E11	457	610	150	7,8	450	70
E11	305	610	150	5,2	300	70
E11	610	610	150	10,4	600	70
E12	457	610	150	7,8	450	95
E12	305	610	150	5,2	300	95
E12	610	610	150	10,4	600	95
H13	457	610	150	7,8	450	110
H13	305	610	150	5,2	300	110
H13	610	610	150	10,4	600	110
H14	457	610	150	7,8	450	120
H14	305	610	150	5,2	300	120
H14	610	610	150	10,4	600	120
U15	457	610	150	9,4	450	120
U15	305	610	150	6,2	300	120
U15	610	610	150	12,5	600	120

» **Absolute Filters**
 » **EPA, HEPA & ULPA**

Media Microglass Fiber
Final Pressure Drop 600 Pa
Operating Temperature 80°C
Filter Efficiency E10-H14
Gasket Half Round Endless Polyurethane
Frame Extruded Anodized Aluminium, MDF
 (292 mm)



Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
E10	305	610	292	11,2	2100	250
E10	457	610	292	16,8	3150	250
E10	610	610	292	22,4	4200	250
E11	305	610	292	11,2	1600	250
E11	457	610	292	16,8	2400	250
E11	610	610	292	22,4	3200	250
E12	305	610	292	11,2	1300	250
E12	457	610	292	16,8	1950	250
E12	610	610	292	22,4	2600	250
H13	305	610	292	11,2	1200	250
H13	457	610	292	16,8	1800	250
H13	610	610	292	22,4	2400	250
H14	305	610	292	11,2	1075	250
H14	457	610	292	16,8	1610	250
H14	610	610	292	22,4	2150	250

» Absolute Filters

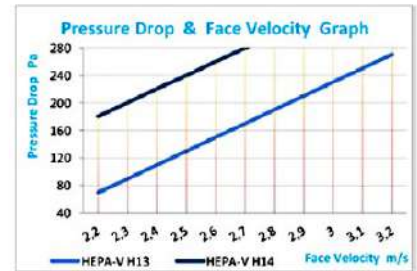
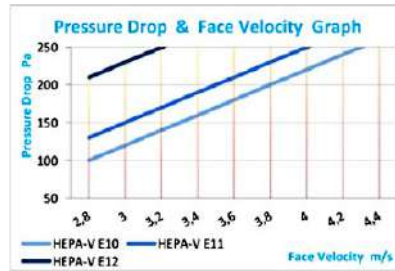
» EPA, HEPA & ULPA

Media	Microglass Fiber
Final Pressure Drop	600 Pa
Operating Temperature	80°C
Filter Efficiency	E10-H14
Gasket	Flat Neoprene or Half Round Endless Polyurethane
Frame	Galvanized Steel, Aluminium, Stainless Steel



Applications

- Air conditioning systems (Hospitals, Laboratories, Museums)
- Industrial processes (Pharmaceutical, Food, Microelectronics)



Advantages

- High capacity High efficiency Absolute air filtration
- Clean room ventilation systems
- Used in microelectronics, food, photography, data centers, hospital, medical equipment industry

Filter Class EN 1822	Dimensions			Media Area (m ²)	Air Flow (m ³ /h)	Pressure Drop (Pa)
	Width (mm)	Length (mm)	Depth (mm)			
E10	305	610	292	17,5	2500	250
E10	457	610	292	26,0	3750	250
E10	610	610	292	35,0	5000	250
E11	305	610	292	17,5	2350	250
E11	457	610	292	26,0	3520	250
E11	610	610	292	35,0	4700	250
E12	305	610	292	17,5	1800	250
E12	457	610	292	26,0	2700	250
E12	610	610	292	35,0	3600	250
H13	305	610	292	17,5	1700	250
H13	457	610	292	26,0	2550	250
H13	610	610	292	35,0	3400	250
H14	305	610	292	17,5	1400	250
H14	457	610	292	26,0	2100	250
H14	610	610	292	35,0	2800	250

» [Hepa Hausing](#)

» [H-BOX](#)

[Applications](#)

- Ceiling diffusers for terminal filtration
- Cleanroom applications

LTC Low top ceiling

DSW Swirl diffusers

D4D 4-direction diffusers

DP Perforated diffusers

Collar Dimensions Ø150 mm, Ø200 mm, Ø250mm

SSC Standard side ceiling

DSW Swirl diffusers

D4D 4-direction diffusers

DP Perforated diffusers

Collar Dimensions Ø150 mm, Ø200 mm, Ø250mm

LSC Low side ceiling

DSW Swirl diffusers

D4D 4-direction diffusers

DP Perforated diffusers

Collar Dimensions Ø150 mm, Ø200 mm , Ø250mm



» Carbocat Set

» Activated Carbon Filters with Filled Cylindrical Cartridges

Media	Carbon Organic
Final Pressure Drop	600 Pa
Operating Temperature	50°C
Cylinder Diameter	145
Cartridge Height	400-450-600 mm
Frame	Galvanized,



Applications

- CARBOCAT serves to absorb gaseous pollution and odours
- It may be installed for supply and exhaust
- Air domestic and technical applications
- Due to a simple modular construction system
- One can easily build large filtration units by screwing base frames together
- It should protect with a pre filter such as M5 or M6
- If needed, gaseous contamination can be absorbed through diverse filtering
- Preliminary filtration is necessary to protect the activated carbon

Advantages

- Re-Filable cartridges with new activated carbon
- Very high mechanical efficiency
- Carbocat with base plate and cylinders made of galvanized or stainless steel
- Exchangeable cartridges can be regenerated
- Simple replacement thanks to bayonet coupling
- Robust construction allows easy mounting and removal
- Lower pressure drop according to its high performance
- Available in gas adsorption and chemisorption

Filter Class	Dimensions			Nomial Air Flow (m ³ /h)	Initial Pressure Drop (Pa)	Cartridges Qu-antity (pcs.)	Cartridge Volume (dm ³)
	Width (mm)	Length (mm)	Depth (mm)				
Cartridge Filter	305	610	400	1200	<150	8	4,7
Cartridge Filter	610	610	400	2400	<150	16	4,7
Cartridge Filter	305	610	600	1700	<150	8	7
Cartridge Filter	610	610	400	3400	<150	16	7

» Carbocat Set

» Activated Carbon Filters with Filled Cylindrical Cartridges

Media	Carbon Organic
Final Pressure Drop	600 Pa
Operating Temperature	50°C
Cylinder Diameter	145
Cartridge Height	400-600 mm
Frame	Galvanized,



Filter Class	Size (OD x H)	Air Flow m3/h	In.Pressure D. Pa.	Weight kg
Cartridge Filter	145-400	215	230	3,25
Cartridge Filter	145-600	215	140	5,10

» **EQUIPMENTS AND ACCESSORIES**

» **Filter Housing Frame for Pre and Fine Filters**



Applications

- Filter mounting frames are to seal all types of pocket filters, compact filters, and all other framed filters
- In air handling units
- In the construction of filter cells and filter walls
- In the construction of additional filter units
- It provides fast and economical solution
- The filter can be easily and safely mounted by inserting it the frame
- Sealing is achieved by means of 4 clamp clips
- Filtration walls of arbitrary sizes can be built thanks to the self-supporting
- Stable construction of the frames
- Filter mounting frames are made of galvanized steel and stainless steel
- Other dimensional versions available upon request

Material Type	Mounting Frame Size			Filter Frame Size		
	Width (mm)	Length (mm)	Depth (mm)	Width (mm)	Length (mm)	Depth (mm)
Galvanized	305	610	72	287	592	25/48
Galvanized	508	610	72	490	592	25/48
Galvanized	610	610	72	592	592	25/48
Galvanized	305	610	100	287	592	48/70
Galvanized	508	610	100	490	592	48/70
Galvanized	610	610	100	592	592	48/70
Galvanized	305	610	120	287	592	48/96
Galvanized	508	610	120	490	592	48/96
Galvanized	610	610	120	592	592	48/96

» INDUSTRIAL FILTERS

Dust Collection Filters



These filters can be used as resistant to high heat or in low pore diameters and moisturized environment in the dust collecting systems



We produce for all kind of brand and type dust collection systems with the suitable size and micron values.

Air Dryer Filters



Moisture and water are always being in the pressurized air. Air dryer filters are being used to prevent them passing into the system.

Oil Filters



These filters are preventing solid particles from damaging the engine. We are preparing the filter models with the type of that the system will not have any pressure lost.



Pressure Line Filters

Hydraulic Filter

These filters are providing the cleaning of the liquid for preventing the system elements from corrosion and in order to prevent machines from failing.



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