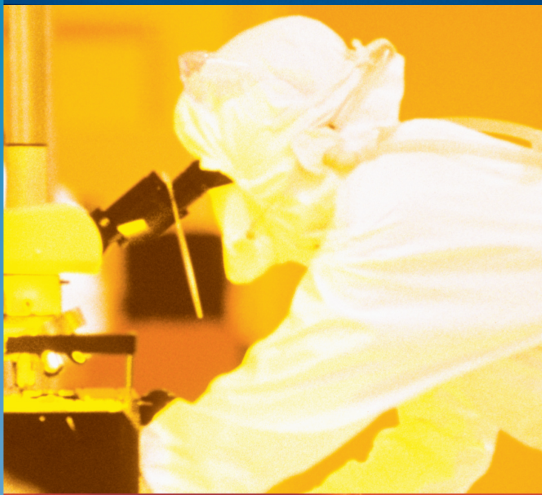
Comfort

Clean process

Safety & protection



product catalogue 2006/07

Camfil Farr	Air Filter Products and Services
Air Filtration Solutions	
Camfil Farr – clean air solutions	

Camfil Farr — lpoh, Malaysia plant .
One of three purpose built air filter manufacturing plants and distribution centers dedicated to the Asia Pacific markets.

Dear Customer:

We are happy to provide this latest edition of the Camfil Farr Products Catalogue.

We've tried to make it easy to use and have included extensive product information, application guides and reference tools to simplify the selection of the right Camfil Farr Clean Air Solution. This catalog is also on the enclosed CD.

Camfil Farr is a Clean Air Solutions provider to the world, our product range includes many industry benchmark filters. Already a market leader in Europe and North America, growing Camfil Farr investments have made us the fastest growing Clean Air Solutions provider in Asia. Building on our strength of in house process development, continuous product R&D and global purchasing power Camfil Farr operates multiple factories and an extensive sales network dedicated to the support of our valued customers in Asia. We have also developed a wide range of technical support tools including software packages that can assist in Life Cycle Cost evaluation, Clean Room Design, Filter Performance Data and Chemical Filter Selection.

Our support also includes a unique Mobile Media Tester program. This computerized portable test rig allows customers to evaluate installed filter perfomance on their own site and make informed decisions based on real world performance.

If you would like more information on any of these programs, please contact your local Camfil Farr Sales Office or Distributor.

Alternatively, you can visit our website at www.camfilfarr.com.

We are proud to offer this wide range of Clean Air Solutions, please enjoy your reading.

Phil Whitaker
President
Camfil Farr Asia

Regional R&D Centers

ALL HEPA/ULPA filters individually tested according to EN 1822

Production in controlled environment

All plants ISO 9000 certified

camfil FARR

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camfil FARR

Camfil Farr Services

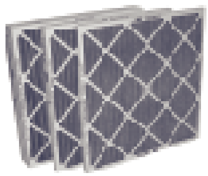
Camfil Farr	**Your Service Provider** Air Filters and Much More
Camfil Farr	**Filter Engineering Specialists** Computer Aided Filter Selection Life Cycle Cost Analysis (from Cradle to Grave) On Site Filter Testing
Camfil Farr	**Logistics and Distribution** Air filter stocks in regional locations Goods shipped for next day delivery Complete regional sales support 3 dedicated Asia Pacific manufacturing plants
Camfil Farr	**Development Through Education** Comprehensive training program for employees Long term supplier relationships Customer Education Academy
Camfil Farr	**Protecting the Environment** Products with minimal environmental impact Complete range of recyclable products

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MEDIUM EFFICIENCY

Pleated Filters

30/30



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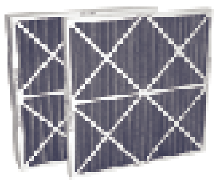
AEROPLEAT III



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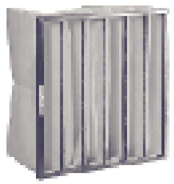
Primary Bag Filters

HI-CAP BAG FILTER



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Media Rolls

CAM GLASS MEDIA

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SYNTHETIC MEDIA ROLLS

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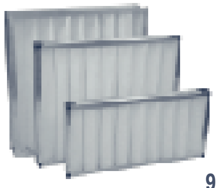
Media Holding Frames

MEDIA HOLDING FRAME



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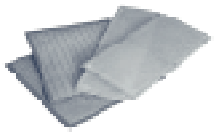
Fan Coil Filters

FAN COIL FILTER



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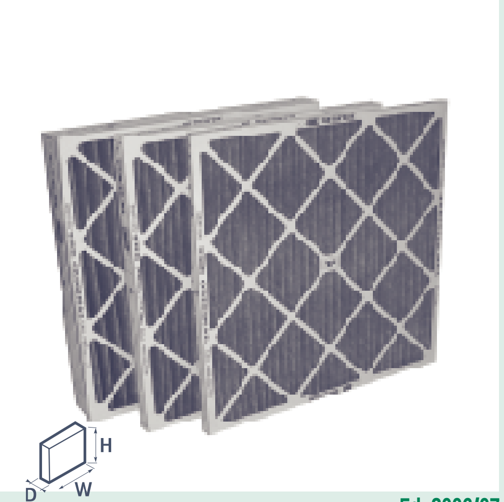
Medium Efficiency



Ed. 2006/07

High Performance Pleated Filter

ADVANTAGES

- High mechanical strength
- Rigid, water resistant cardboard frame
- Unique tapered radial pleat design
- Fully supported media bonded onto a wire support grid
- Bonded into case to eliminate air by-pass

☺ ***CAMFIL Hints!*** Energy - *the use of filters with large surface areas reduces energy costs and increases service life - results, lower cost of ownership !*

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30/30

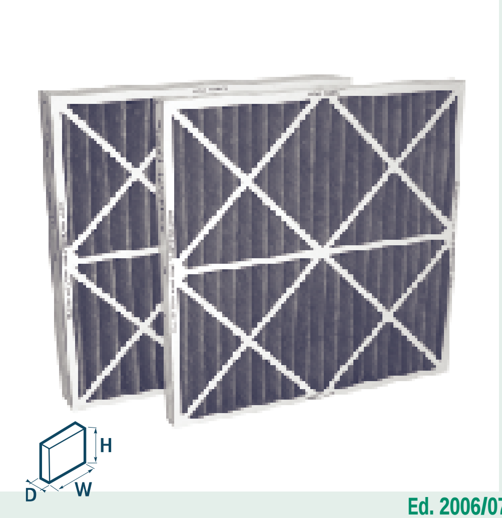
Application: Primary filter for air conditioning systems.
Type: High performance disposable pleated panel filter.
Case: Rigid water resistant cardboard.
Media: Mixture of cotton and synthetic fibre.
Efficiency EN 779: G4.
Gravimetric Efficiency: 92%.

Efficiency Eurovent 4/5: EU4.
Recommended final pressure drop: 250 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8, and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m²	Air flow/pressure drop m³/hr/Pa	Unit weight kg	Unit volume m³
54862001	Pleated Panel	30/30 2 20x16x1	394 x 495 x 22	G4	0.45	1326/62	0.30	0.01
54862002	Pleated Panel	30/30 2 20x20x1	394 x 495 x 22	G4	0.55	1650/62	0.40	0.01
54862003	Pleated Panel	30/30 2 25x20x1	495 x 622 x 22	G4	0.70	2065/62	0.55	0.01
54862004	Pleated Panel	30/30 2 25x16x1	394 x 622 x 22	G4	0.57	1650/62	0.42	0.01
54862005	Pleated Panel	30/30 2 24x24x1	597 x 597 x 22	G4	0.82	2380/62	0.60	0.01
54862010	Pleated Panel	30/30 2 24x12x1	292 x 597 x 22	G4	0.40	1190/62	0.30	0.01
54862011	Pleated Panel	30/30 2 24x20x1	495 x 595 x 22	G4	0.65	1980/62	0.53	0.01
49880001	Pleated Panel	30/30 2 16x20x2	394 x 495 x 44	G4	0.77	1658/70	0.44	0.01
49880002	Pleated Panel	30/30 2 20x20x2	495 x 495 x 44	G4	1.12	2363/70	0.55	0.01
49880003	Pleated Panel	30/30 2 25x20x2	495 x 622 x 44	G4	1.42	2958/70	0.70	0.01
49880004	Pleated Panel	30/30 2 25x16x2	394 x 622 x 44	G4	1.18	2363/70	0.55	0.01
49880005	Pleated Panel	30/30 2 24x24x2	594 x 594 x 44	G4	1.64	3400/70	0.78	0.02
49880006	Pleated Panel	30/30 2 24x12x2	289 x 594 x 44	G4	0.79	1700/70	0.40	0.01
49880009	Pleated Panel	30/30 2 20x14x2	343 x 495 x 44	G4	0.77	1658/70	0.25	0.01
49880012	Pleated Panel	30/30 2 24x20x2	495 x 597 x 44	G4	1.36	2839/70	0.45	0.01
49880015	Pleated Panel	30/30 2 24x18x2	444 x 597 x 44	G4	1.24	2650/70	0.45	0.01
49880017	Pleated Panel	30/30 2 24x16x2	394 x 597 x 44	G4	1.18	2363/70	0.55	0.01
59413001	Pleated Panel	30/30 2 24x24x4	594 x 594 x 95	G4	2.55	3400/68	1.45	0.03
59413002	Pleated Panel	30/30 2 24x12x4	289 x 594 x 95	G4	1.28	1700/68	0.40	0.02
59413003	Pleated Panel	30/30 2 20x20x4	492 x 492 x 95	G4	1.73	2363/68	0.30	0.02
59413004	Pleated Panel	30/30 2 20x16x4	390 x 492 x 95	G4	1.45	1887/68	0.25	0.02
59413005	Pleated Panel	30/30 2 25x16x4	390 x 619 x 95	G4	1.82	2363/68	0.25	0.02
59413006	Pleated Panel	30/30 2 25x20x4	492 x 619 x 95	G4	2.18	2950/68	0.45	0.03
59413008	Pleated Panel	30/30 2 24x20x4	492 x 594 x 95	G4	2.09	2839/68	0.45	0.03
59413010	Pleated Panel	30/30 2 25x25x4	619 x 619 x 95	G4	2.85	4284/68	0.50	0.04

Other dimensions are available on request – All dimensions are nominal.

Medium Efficiency



Ed. 2006/07

Disposable Pleated Panel Filter

ADVANTAGES

- Robust construction
- Moisture resistant cardboard frame
- Comprehensive range of standard and non standard sizes
- Fully supported media bonded onto a wire support grid
- Bonded into case to eliminate air by-pass

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

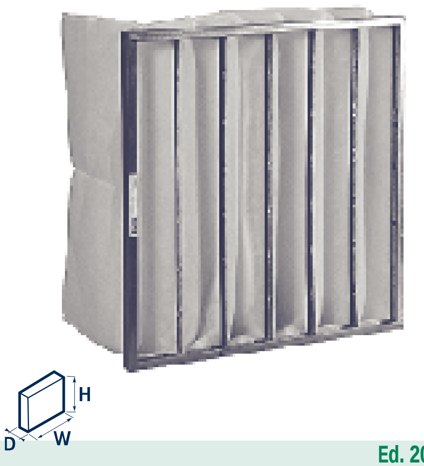
Aeropleat III

Application: Pre filter for comfort air conditioning applications.
Type: Disposable pleated panel filter.
Case: Moisture resistant cardboard.
Media: Mixture of cotton and synthetic fibre.
Efficiency EN 779: G4.
Gravimetric Efficiency: 92%.

Efficiency Eurovent 4/5: EU4.
Recommended final pressure drop: 250 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m²	Air flow/pressure drop m³/hr/Pa	Unit weight kg	Unit volume m³
116300001	Pleated Panel	Aeropleat III Class 2 20x16x2	394 x 495 x 44	G4	0.61	1887/58	0.40	0.01
116300002	Pleated Panel	Aeropleat III Class 2 20x20x2	495 x 495 x 44	G4	0.80	2363/58	0.50	0.01
116300003	Pleated Panel	Aeropleat III Class 2 25x20x2	495 x 622 x 44	G4	0.99	2950/58	0.60	0.01
116300004	Pleated Panel	Aeropleat III Class 2 25x16x2	394 x 622 x 44	G4	0.76	2363/58	0.50	0.01
116300005	Pleated Panel	Aeropleat III Class 2 24x24x2	594 x 594 x 44	G4	1.12	3400/58	0.65	0.02
116300006	Pleated Panel	Aeropleat III Class 2 24x12x2	289 x 594 x 44	G4	0.56	1656/58	0.35	0.01
116300007	Pleated Panel	Aeropleat III Class 2 24x20x2	495 x 594 x 44	G4	0.96	2839/58	0.55	0.01
116300008	Pleated Panel	Aeropleat III Class 2 24x18x2	444 x 594 x 44	G4	0.85	2550/58	0.50	0.01
116307001	Pleated Panel	Aeropleat III Class 2 24x24x4	594 x 594 x 95	G4	1.64	3400/48	1.20	0.03
116307002	Pleated Panel	Aeropleat III Class 2 24x12x4	289 x 594 x 95	G4	0.82	1700/48	0.65	0.02
116307003	Pleated Panel	Aeropleat III Class 2 20x20x4	492 x 492 x 95	G4	1.17	2336/48	0.90	0.02
116307004	Pleated Panel	Aeropleat III Class 2 20x16x4	394 x 492 x 95	G4	0.87	1853/48	0.75	0.02
116307005	Pleated Panel	Aeropleat III Class 2 25x16x4	622 x 495 x 95	G4	1.1	2332/48	0.90	0.03
116307007	Pleated Panel	Aeropleat III Class 2 24x20x4	492x 594 x 44	G4	1.46	2768/58	1.05	0.03

Other dimensions are available on request – All dimensions are nominal.



Ed. 2006/07

Multi-Pocket Bag Filter

ADVANTAGES

- Rigid self supporting pockets
- Robust metal header frame
- High mechanical strength
- Welded pocket construction
- Certified performance

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Hi-Cap HF 90/35

Application: Comfort air conditioning applications, pre filter applications.
Type: Multi pocket bag filter.
Header Frame : Galvanised steel.
Media: Synthetic fibres.
Efficiency EN 779: G4.
Efficiency Eurovent 4/5: EU4.
Recommended final pressure drop: 250 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3200005	Hi- Cap	HF 90/35-66	592 x 592 x 360	G4	6	2.6	3400/45	2.2	0.13
3200006	Hi- Cap	HF 90/35-56	490 x 592 x 360	G4	5	2.2	2815/65	2.0	0.10
3200007	Hi- Cap	HF 90/35-36	287 x 592 x 360	G4	3	1.3	1650/65	1.4	0.06
3200008	Hi- Cap	HF 90/35-55	490 x 490 x 360	G4	5	1.8	2375/65	2.5	0.09

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify

Medium Efficiency

Ed. 2006/07

Disposable Filter Media

ADVANTAGES

- Continuous filament glass fibres, resin bonded
- Smooth airflow through booths
- Full depth particle collection
- Economical

CAMFIL hints! *Health - the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) entering air-conditioning systems.*

CamGlass Media Rolls

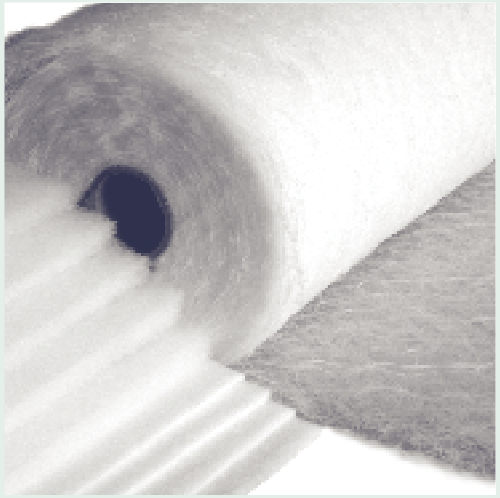
Application: For use as a pre filter in air conditioning and spraybooth extract systems.
Media: Glass Fibre.
Efficiency EN 779: G3.
Arrestance Efficiency: 85% .
Efficiency Eurovent 4/5: EU3.
Temperature: 120° C maximum in continuous service.
Humidity: 100% RH.

Reference	Type	Model	Dimensions (meters)	Filter grade EN 779	Media area m^2	Velocity/pressure drop $m^3/s/Pa$	Unit volume m^3
5200012	Media Roll	Paintstop rolls	1 X 20	G3	20	1.5/33	1

Other sizes and cut pads available on request.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Medium Efficiency



Ed. 2006/07

Synthetic Media Rolls

Application: For use as a pre filter in air conditioning and spraybooth extract systems.
Flammability: (DIN 53438) self extinguishing.
Colour: White.
Media: Synthetic.
Efficiency EN 779: G3, G4.
Arrestance Efficiency: 85% - 92%.
Efficiency Eurovent 4/5: EU3, EU4.
Temperature: 80° C- 100° C maximum in continuous service.
Humidity: 100% RH.

Reference	Type	Model	Dimensions (meters)	Filter grade EN 779	Media area m^2	Velocity /pressure drop $m^3/s/Pa$	Pack qty	Unit volume m^2
5200003	Media Roll	CM355	2 X 20	G3	40	2.0/75	1	2
5200006	Media Roll	CM360	2 X 20	G4	40	2.0/75	1	2

Other sizes and cut pads available on request.

Disposable Filter Media

ADVANTAGES

- Progressively built up thermal bonded polyester fibre
- Non Toxic

☺ ***CAMFIL hints!*** *Health - the UNICLIMA" Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa(F7) entering air-conditioning systems.*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Medium Efficiency

Ed. 2006/07

MediaHolding Frames with Disposable Media Insert

ADVANTAGES

- Robust construction
- Replaceable filter media
- Retaining wire for media pad
- Suitable for commercial and industrial applications

CAMFIL Hints! *Health - the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) entering air-conditioning systems.*

camfil FARR

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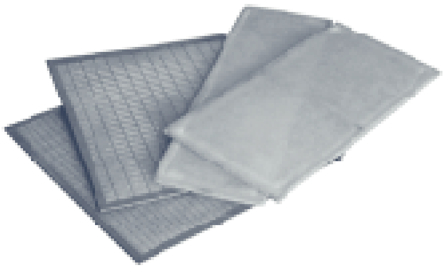
Media Holding Frame(MHF)

Application: Pre filtration in air conditioning or industrial processing systems.
Type: Coarse grade filter.
Frame: Standard galvanised mild steel.
Media: Synthetic / glass fibre.
Efficiency EN 779: G3, G4.
Arrestance Efficiency: 85% - 92%.
Efficiency Eurovent 4/5: EU3, EU4,
Temperature: 80° C maximum in continuous service.
Humidity: 100% RH.
Optional: Alternative frame materials available on request.

Reference	Type	Model	Dimensions (WxHxD) cm	Filter Grade EN779
MG540-5400001	Media Holding Frame	CM360	24 x 24 x 4	G4
MG540-5400002	Media Holding Frame	CM360	24 x 20 x 4	G4
MG540-5400003	Media Holding Frame	CM360	24 x 12 x 4	G4
MG540-5400004	Media Holding Frame	CM360	24 x 24 x 4	G4
MG540-5400005	Media Holding Frame	CM360	24 x 20 x 4	G4
MG540-5400006	Media Holding Frame	CM360	24 x 12 x 4	G4
MG540-5400007	Media Holding Frame	CM355	24 x 24 x 4	G4
MG540-5400008	Media Holding Frame	CM355	24 x 20 x 4	G3
MG540-5400009	Media Holding Frame	CM355	24 x 12 x 4	G3
MG540-5400010	Media Holding Frame	CM355	24 x 24 x 4	G3
MG540-5400011	Media Holding Frame	CM355	24 x 20 x 4	G3
MG540-5400012	Media Holding Frame	CM355	24 x 12 x 4	G3

Other sizes available on request – Alternative constructions also available.

Fan Coil Filter®



Ed. 2006/07

Wire Framed Pre Filter

ADVANTAGES

- Economical
- Low pressure drop

Application: Prevention of dust and dirt build up on heating/cooling coils within ventilation systems.
Type: Coarse dust removal.
Frame: Metal with downstream support.
Media: Synthetic.
Efficiency EN 779: G3/G4
Arrestance Efficiency: 85% - 92%
Efficiency Eurovent 4/5: EU3/EU4
Temperature: 70° C maximum in continuous service.
Humidity: 100% RH.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779
--	Fan Coil Filter	CM355	as required	G3
--	Fan Coil Filter	CM360	as required	G4

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

HIGH EFFICIENCY

S-FLO-W
Bag Filters
Synthetic Media

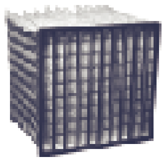
Hi-Flo
Bag Filters
Glass Fibre Media

Rigo Flo
Opakfil
Compact Filter

Riga Flo
Airopac
Compact Filter

Airopac
Compact Filter

CityCarb/CityFlo
Combined
2 in 1 Filter

S-FLO-W P

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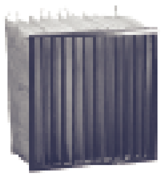
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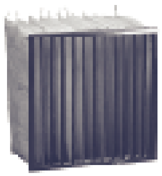
HI-FLO M

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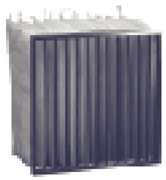
HI-FLO TF

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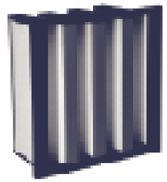
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RIGA FLO P

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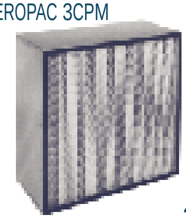
AEROPAC 3CPM

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CITYCARB

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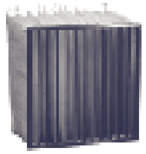
S-FLO-W M

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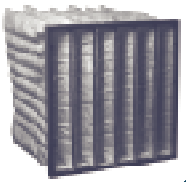
S-FLO W T

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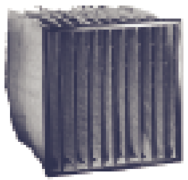
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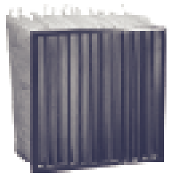
HI-FLO X

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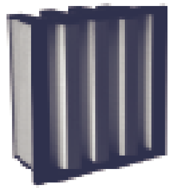
OPAKFIL CC

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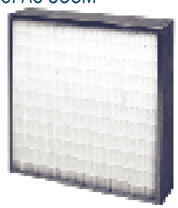
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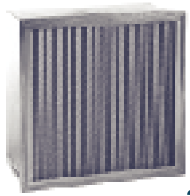
AEROPAC 3CPMHF

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CITY FLO

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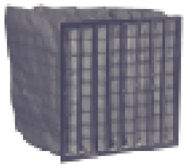
S-FLO-W U

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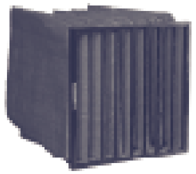
HI FLO U

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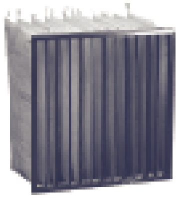
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OPAKFIL 2V

27

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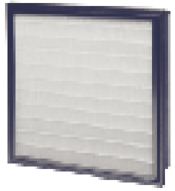
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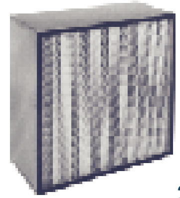
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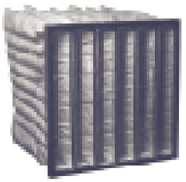
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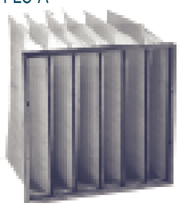
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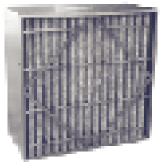
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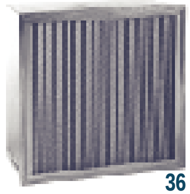
AIROPAC GREEN

32

3HCP8 AEROPAC

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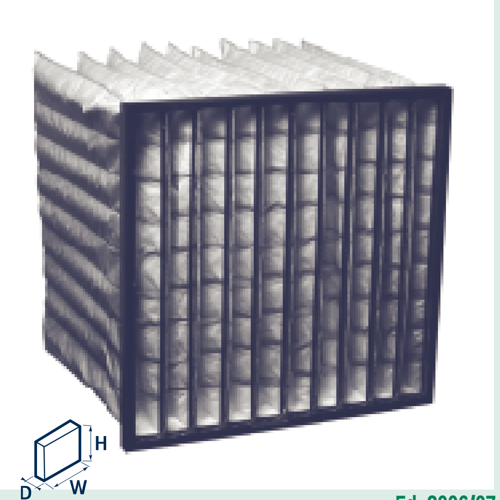


Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Low energy costs
- High efficiency
- Large surface area
- Controlled media spacing (CMS)

CAMFIL hints! *Health - the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) entering air-conditioning systems.*

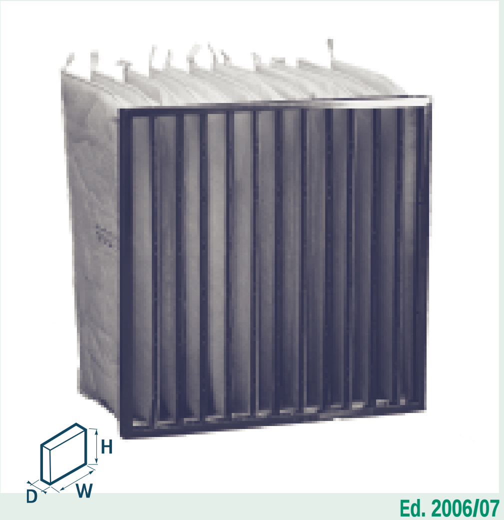
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

S-Flo-W P

Application: Air conditioning applications.
Type: Extended surface multi pocket bag filter.
Header Frame : Galvanised steel
Media: Synthetic Fibres.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.
Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type / Model Description	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow / pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3300009	S-Flo	P6	592 x 592 x 534	F6	10	6.5	3400/45	2.7	0.19
3300010	S-Flo	Q6	490 x 592 x 534	F6	8	5.2	2800/45	2.4	0.15
3300011	S-Flo	R6	287 x 592 x 534	F6	5	3.2	1700/45	1.6	0.09
3300033	S-Flo	P7	592 x 592 x 534	F7	10	6.5	3400/75	2.7	0.19
3300034	S-Flo	Q7	490 x 592 x 534	F7	8	5.2	2800/75	2.4	0.15
3300035	S-Flo	R7	287 x 592 x 534	F7	5	3.2	1700/75	1.6	0.09
3300057	S-Flo	P8	592 x 592 x 534	F8	10	6.5	3400/95	2.7	0.19
3300058	S-Flo	Q8	490 x 592 x 534	F8	8	5.2	2800/95	2.4	0.15
3300059	S-Flo	R8	287 x 592 x 534	F8	5	3.2	1700/95	1.6	0.09

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify



Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Robust metal header frame
- Unique pocket design
- Large surface area
- Available in a range of efficiencies

S-Flo-W M

Application: Comfort air conditioning applications, pre filter applications.
Type: Multi pocket bag filter.
Header frame : Galvanised steel
Media: Synthetic Fibres.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3300001	S-Flo	M6	592 x 592 x 635	F6	12	9.4	3400/63	2.7	0.22
3300002	S-Flo	N6	490 x 592 x 635	F6	10	7.8	2815/71	2.4	0.18
3300003	S-Flo	06	287 x 592 x 635	F6	6	4.7	1650/55	1.6	0.11
3300025	S-Flo	M7	592 x 592 x 635	F7	12	9.4	3400/77	2.7	0.22
3300026	S-Flo	N7	490 x 592 x 635	F7	10	7.8	2815/66	2.4	0.18
3300027	S-Flo	07	287 x 592 x 635	F7	6	4.7	1650/85	1.6	0.11
3300049	S-Flo	M8	592 x 592 x 635	F8	12	9.4	3400/94	2.7	0.22
3300050	S-Flo	N8	490 x 592 x 635	F8	10	7.8	2815/85	2.4	0.18
3300051	S-Flo	08	287 x 592 x 635	F8	6	4.7	1650/92	1.6	0.11

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

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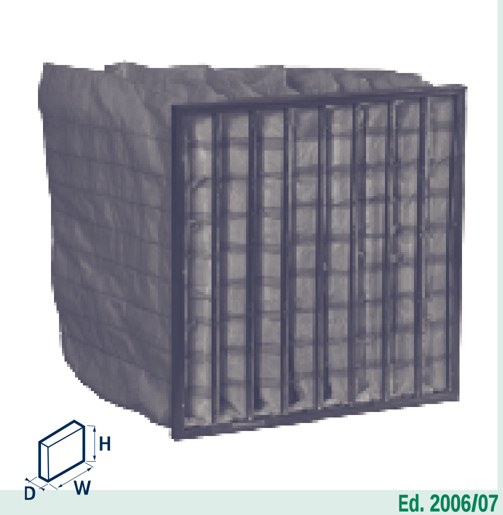


Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Robust metal header frame
- Unique pocket design
- Large surface area
- Controlled media spacing (CMS)

☺ **CAMFIL hints!** Use full size filters - a 50% increase in filter surface area will result in a 100% increase in service lifetime

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

S-Flo-W U

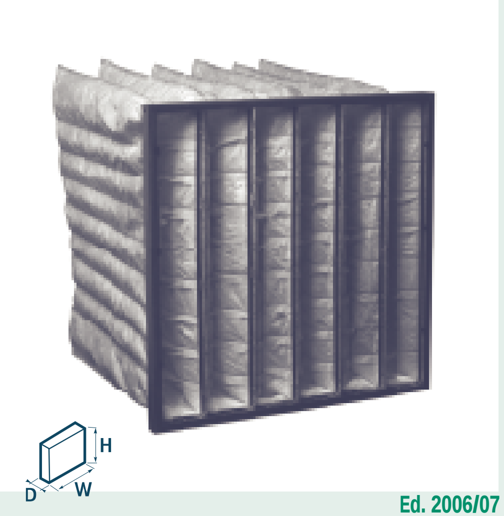
Application: Air conditioning applications.
Type: Extended surface multi pocket bag filter.
Header Frame : Galvanised steel
Media: Synthetic Fibres.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow /pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3300013	S-Flo	UF6	592 x 592 x 600	F6	8	6.3	3400/50	2.8	0.21
3300014	S-Flo	UG6	490 x 592 x 600	F6	6	4.6	2800/50	2.4	0.17
3300015	S-Flo	UH6	287 x 592 x 600	F6	4	3.2	1700/50	1.6	0.10
3300037	S-Flo	UF7	592 x 592 x 600	F7	8	6.3	3400/60	2.8	0.21
3300038	S-Flo	UG7	490 x 592 x 600	F7	6	4.6	2800/60	2.4	0.17
3300039	S-Flo	UH7	287 x 592 x 600	F7	4	3.2	1700/60	1.6	0.10
3300061	S-Flo	UF8	592 x 592 x 600	F8	8	6.3	3400/80	2.8	0.21
3300062	S-Flo	UG8	490 x 592 x 600	F8	6	4.6	2800/80	2.4	0.17
3300063	S-Flo	UH8	287 x 592 x 600	F8	4	3.2	1700/80	1.6	0.10

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify

High Efficiency



Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Robust metal header frame
- Unique pocket design
- Large surface area
- Available in a range of efficiencies

S-Flo-W A

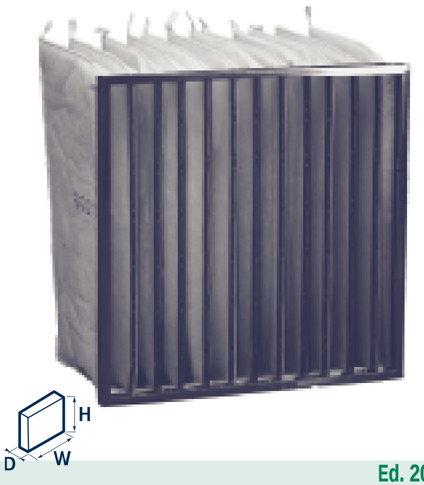
Application: Comfort air conditioning applications, pre filter applications.
Type: Multi pocket bag filter.
Header Frame : Galvanised steel
Media: Synthetic Fibres.
Efficiency EN 779: F5 (40-50%), F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU5, EU6, EU7, EU8.

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3300073	S-Flo	A5	592 x 592 x 600	F5	6	4.6	3400/50	2.4	0.21
3300074	S-Flo	B5	490 x 592 x 600	F5	5	3.8	2800/50	2.0	0.17
3300075	S-Flo	C5	287 x 592 x 600	F5	3	2.3	1700/51	1.5	0.10
3300017	S-Flo	A6	592 x 592 x 600	F6	6	4.6	3400/55	2.4	0.21
3300018	S-Flo	B6	490 x 592 x 600	F6	5	3.8	2800/55	2.0	0.17
3300019	S-Flo	C6	287 x 592 x 600	F6	3	2.3	1700/55	1.5	0.10
3300041	S-Flo	A7	592 x 592 x 600	F7	6	4.6	2550/52	2.4	0.21
3300042	S-Flo	B7	490 x 592 x 600	F7	5	3.8	2100/52	2.0	0.17
3300043	S-Flo	C7	287 x 592 x 600	F7	3	2.3	1275/52	1.5	0.10
3300065	S-Flo	A8	592 x 592 x 600	F8	6	4.6	3400/100	2.4	0.21
3300066	S-Flo	B8	490 x 592 x 600	F8	5	3.8	2800/100	2.0	0.17
3300067	S-Flo	C8	287 x 592 x 600	F8	3	2.3	1700/100	1.5	0.10

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice



Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Robust metal header frame
- Unique pocket design
- Large surface area
- Available in a range of efficiencies

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

S-Flo-W X

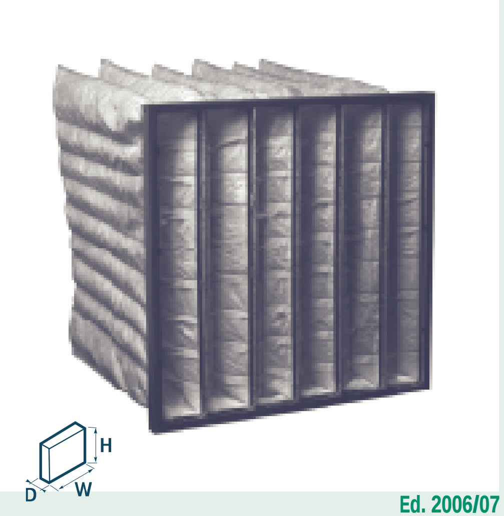
Application: Comfort air conditioning applications, pre filter applications.
Type: Multi pocket bag filter.
Header Frame : Galvanised steel.
Media: Synthetic Fibres.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3300005	S-Flo	X6	592 x 592 x 635	F6	10	7.8	3400/64	2.7	0.22
3300006	S-Flo	Y6	490 x 592 x 635	F6	8	6.3	2815/55	2.4	0.18
3300007	S-Flo	Z6	287 x 592 x 635	F6	5	3.9	1650/42	1.6	0.11
3300029	S-Flo	X7	592 x 592 x 635	F7	10	7.8	3400/93	2.7	0.22
3300030	S-Flo	Y7	490 x 592 x 635	F7	8	6.3	2815/89	2.4	0.18
3300031	S-Flo	Z7	287 x 592 x 635	F7	5	3.9	1650/80	1.6	0.11
3300053	S-Flo	X8	592 x 592 x 635	F8	10	7.8	3400/124	2.7	0.22
3300054	S-Flo	Y8	490 x 592 x 635	F8	8	6.3	2815/92	2.4	0.18
3300055	S-Flo	Z8	287 x 592 x 635	F8	5	3.9	1650/72	1.6	0.11

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify

High Efficiency



Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Robust metal header frame
- Unique pocket design
- Large surface area
- Available in a range of efficiencies

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

S-Flo-W T

Application: Comfort air conditioning applications, pre filter applications.
Type: Multi pocket bag filter.
Header frame : Galvanised steel.
Media: Synthetic Fibres.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3300021	S-Flo	TM6	592 x 592 x 380	F6	12	5.5	3400/83	2.3	0.13
3300022	S-Flo	TN6	490 x 592 x 380	F6	10	4.6	2815/59	2.2	0.11
3300023	S-Flo	TO6	287 x 592 x 380	F6	6	2.7	1650/62	1.4	0.06
3300045	S-Flo	TM7	592 x 592 x 380	F7	12	5.5	3400/143	2.3	0.13
3300046	S-Flo	TN7	490 x 592 x 380	F7	10	4.6	2815/98	2.1	0.11
3300047	S-Flo	TO7	287 x 592 x 380	F7	6	2.7	1650/98	1.4	0.06
3300069	S-Flo	TM8	592 x 592x 380	F8	12	5.5	3400/182	2.3	0.13
3300070	S-Flo	TN8	490 x 592 x 380	F8	10	4.6	2815/143	2.0	0.11
3300071	S-Flo	TO8	287 x 592 x 380	F8	6	2.7	1650/139	1.4	0.06

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify

Ed. 2006/07

High Capacity Multi-Pocket Bag Filter

ADVANTAGES

- Maximum installed lifetime
- Low energy costs
- High efficiency
- Large surface area
- Controlled media spacing (CMS)

CAMFIL hints! Use full size filters - a 50% increase in filter surface area will result in a 100% increase in service lifetime

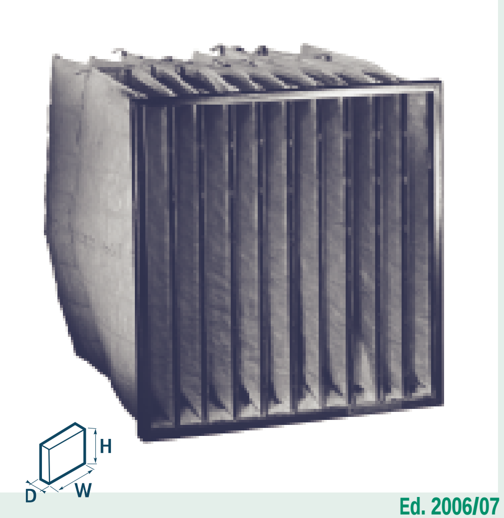
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Hi-Flo M

Application: Air conditioning applications.
Type: Extended surface multi pocket bag filter.
Header frame : Galvanised steel.
Media: Glass Fibre.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.
Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3100001	Hi-Flo	M6	592 x 592 x 635	F6	12	9.0	3400/90	3.3	0.22
3100002	Hi-Flo	N6	490 x 592 x 635	F6	10	7.4	2800/70	3.0	0.18
3100003	Hi-Flo	O6	287 x 592 x 635	F6	6	4.5	1700/70	2.0	0.11
3100029	Hi-Flo	M7	592 x 592 x 635	F7	12	9.0	3400/95	3.3	0.22
3100030	Hi-Flo	N7	490 x 592 x 635	F7	10	7.4	2800/70	3.0	0.18
3100031	Hi-Flo	O7	287 x 592 x 635	F7	6	4.5	1700/90	2.0	0.11
3100057	Hi-Flo	M8	592 x 592 x 635	F8	12	9.0	3400/130	3.3	0.22
3100058	Hi-Flo	N8	490 x 592 x 635	F8	10	7.4	2800/130	3.0	0.18
3100059	Hi-Flo	O8	287 x 592 x 635	F8	6	4.5	1700/130	1.8	0.11

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify



Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Low energy costs
- High efficiency
- Large surface area
- Controlled media spacing (CMS)

☺ ***CAMFIL hints!*** *Health - the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) entering air-conditioning systems.*

camfil FARR

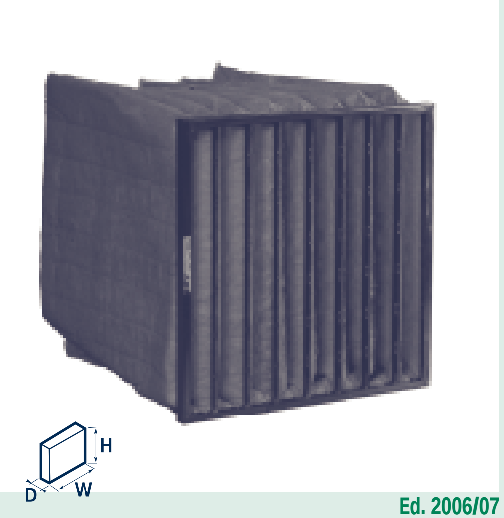
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Hi-Flo P

Application: Air conditioning applications.
Type: Extended surface multi pocket bag filter.
Header frame : Galvanised steel.
Media: Glass Fibre.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.
Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3100009	Hi-Flo	P6	592 x 592 x 534	F6	10	6.5	3400/70	2.9	0.19
3100010	Hi-Flo	Q6	490 x 592 x 534	F6	8	5.2	2800/70	2.4	0.15
3100011	Hi-Flo	R6	287 x 592 x 534	F6	5	3.3	1700/70	1.5	0.09
3100037	Hi-Flo	P7	592 x 592 x 534	F7	10	6.5	3400/115	2.6	0.19
3100038	Hi-Flo	Q7	490 x 592 x 534	F7	8	5.2	2800/115	2.4	0.15
3100039	Hi-Flo	R7	287 x 592 x 534	F7	5	3.3	1700/110	1.6	0.09
3100065	Hi-Flo	P8	592 x 592 x 534	F8	10	6.5	3400/150	2.4	0.19
3100066	Hi-Flo	Q8	490 x 592 x 534	F8	8	5.2	2800/145	2.4	0.15
3100067	Hi-Flo	R8	287 x 592 x 534	F8	5	3.3	1700/140	1.5	0.09

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify



Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Robust metal header frame
- High mechanical strength
- Large surface area
- Available in a range of efficiencies

CAMFIL hints! Use full size filters - a 50% increase in filter surface area will result in a 100% increase in service lifetime

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Hi-Flo U

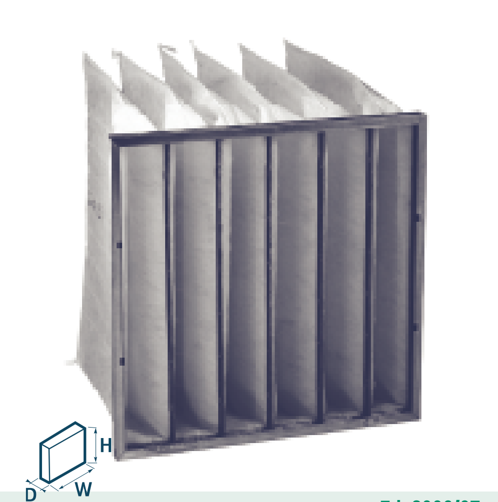
Application: Comfort air conditioning applications, pre filter applications.
Type: Multi pocket bag filter.
Header frame : Galvanised steel.
Media: Glass Fibre.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3100013	Hi-Flo	UF6	592 x 592 x 600	F6	8	6.0	3400/70	2.9	0.21
3100014	Hi-Flo	UG6	490 x 592 x 600	F6	6	4.5	2800/75	2.4	0.17
3100015	Hi-Flo	UH6	287 x 592 x 600	F6	4	3.0	1700/70	1.5	0.10
3100016	Hi-Flo	3UF-65-55	490 x 490 x 600	F6	6	4.1	2375/70	2.0	0.14
3100041	Hi-Flo	UF7	592 x 592 x 600	F7	8	6.0	3400/115	2.9	0.21
3100042	Hi-Flo	UG7	490 x 592 x 600	F7	6	4.5	2800/125	2.4	0.17
3100043	Hi-Flo	UH7	287 x 592 x 600	F7	4	3.0	1700/115	1.5	0.10
3100044	Hi-Flo	3UF-85-55	490 x 490 x 600	F7	6	4.1	2375/115	2.0	0.14
3100069	Hi-Flo	UF8	592 x 592 x 600	F8	8	6.0	3400/145	2.9	0.21
3100070	Hi-Flo	UG8	490 x 592 x 600	F8	6	4.5	2800/155	2.4	0.17
3100071	Hi-Flo	UH8	287 x 592 x 600	F8	4	3.0	1700/145	1.5	0.10
3100072	Hi-Flo	3UF-95-55	490 x 490 x 600	F8	6	4.1	2375/155	2.0	0.14

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify

High Efficiency



Ed. 2006/07

Extended Surface Multi-Pocket Bag Filter

ADVANTAGES

- Comprehensive range of standard sizes
- Robust metal header frame
- High mechanical strength

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Hi-Flo A

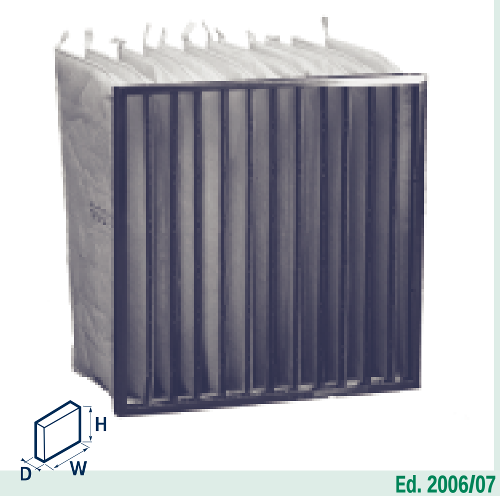
Application: Comfort air conditioning applications, pre filter applications.
Type: Multi pocket bag filter.
Header frame : Galvanised steel.
Media: Glass Fibre.
Efficiency EN 779: F5 (40-50%), F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU5, EU6, EU7, EU8.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m³/hr/Pa	Unit weight kg	Unit volume m^3
3100017	Hi-Flo	A6	592 x 592 x 600	F6	6	4.7	3400/70	2.4	0.21
3100018	Hi-Flo	B6	490 x 592 x 600	F6	5	3.9	2800/75	2.1	0.17
3100019	Hi-Flo	C6	287 x 592 x 600	F6	3	2.3	1700/70	1.5	0.10
3100045	Hi-Flo	A7	592 x 592 x 600	F7	6	4.7	2700/105	2.4	0.21
3100046	Hi-Flo	B7	490 x 592 x 600	F7	5	3.9	2250/100	2.1	0.17
3100047	Hi-Flo	C7	287 x 592 x 600	F7	3	2.3	1350/115	1.5	0.10
3100073	Hi-Flo	A8	592 x 592 x 600	F8	6	4.7	2700/175	2.4	0.21
3100074	Hi-Flo	B8	490 x 592 x 600	F8	5	3.9	2250/180	2.1	0.17
3100075	Hi-Flo	C8	287 x 592 x 600	F8	3	2.3	1350/170	1.5	0.10
3100085	Hi-Flo	A5	592 x 592 x 600	F5	6	4.7	3400/55	2.4	0.21
3100086	Hi-Flo	B5	490 x 592 x 600	F5	5	3.9	2800/55	2.1	0.17
3100087	Hi-Flo	C5	287 x 592 x 600	F5	3	2.3	1700/55	1.5	0.10

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify

High Efficiency



Ed. 2006/07

Extended Surface Compact Multi-Pocket Bag Filter

ADVANTAGES

- Compact size
- Robust metal header frame
- High efficiency
- Large surface area
- Controlled media spacing (CMS)

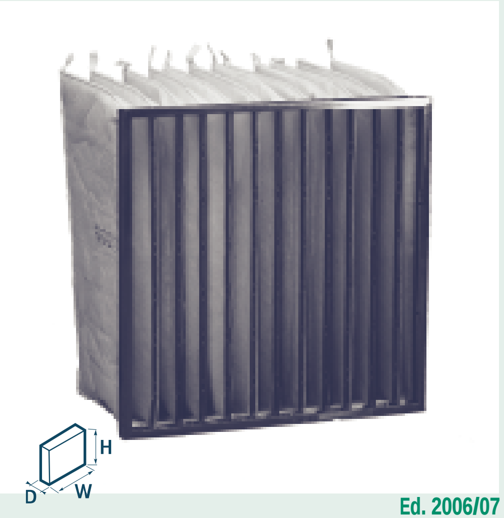
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Hi-Flo TF

Application: Air conditioning applications.
Type: Compact multi-pocket bag filter.
Header frame : Galvanised steel.
Media: Glass Fibre.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.
Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3100025	Hi-Flo	TM6	592 x 592 x 380	F6	12	5.5	3400/90	2.55	0.13
3100026	Hi-Flo	TN6	490 x 592 x 380	F6	10	4.6	2800/90	2.15	0.11
3100027	Hi-Flo	TO6	287 x 592 x 380	F6	6	2.7	1700/90	2.15	0.06
3100028	Hi-Flo	3TF-65-55	490 x 490 x 380	F6	10	3.8	2375/90	1.7	0.09
3100053	Hi-Flo	TM7	592 x 592 x 380	F7	12	5.5	3400/130	2.55	0.13
3100054	Hi-Flo	TN7	490 x 592 x 380	F7	10	4.6	2800/130	2.15	0.11
3100055	Hi-Flo	TO7	287 x 592 x 380	F7	6	2.7	1700/130	1.4	0.06
3100056	Hi-Flo	3TF-85-55	490 x 490 x 380	F7	10	3.8	2375/130	1.7	0.09
3100081	Hi-Flo	TM8	592 x 592 x 380	F8	12	5.5	3400/205	2.55	0.13
3100082	Hi-Flo	TN8	490 x 592 x 380	F8	10	4.6	2800/205	2.15	0.11
3100083	Hi-Flo	TO8	287 x 592 x 380	F8	6	2.7	1700/205	1.4	0.06
3100084	Hi-Flo	3TF-95-55	490 x 490 x 380	F8	10	3.8	2375/205	1.7	0.09

Other sizes are available on request.
25 mm header frame, if a 20 mm header frame is required please specify



Ed. 2006/07

Extended Surface
Compact Multi-Pocket Bag Filter

ADVANTAGES

- Compact size
- Robust metal header frame
- High efficiency
- Large surface area
- Controlled media spacing (CMS)

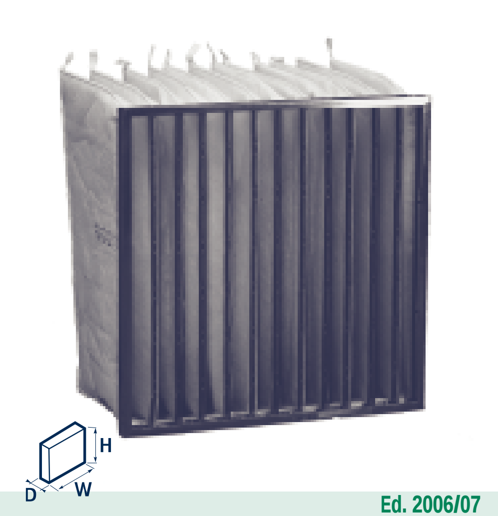
Hi-Flo X

Application: Air conditioning applications.
Type: Compact multi-pocket bag filter.
Header frame : Galvanised steel.
Media: Glass Fibre.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.
Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3100005	Hi-Flo	X6	592 x 592 x 635	F6	10	7.8	3400/70	3.0	0.22
3100006	Hi-Flo	Y6	490 x 592 x 635	F6	8	6.3	2700/70	2.5	0.18
3100007	Hi-Flo	Z6	287 x 592 x 635	F6	5	3.9	1700/70	2.0	0.11
3100033	Hi-Flo	X7	592 x 592 x 635	F7	10	7.8	3400/100	3.0	0.22
3100034	Hi-Flo	Y7	490 x 592 x 635	F7	8	6.3	2700/100	2.5	0.18
3100035	Hi-Flo	Z7	287 x 592 x 635	F7	5	3.9	1700/100	2.0	0.11
3100061	Hi-Flo	X8	592 x 592 x 635	F8	10	7.8	3400/130	3.0	0.22
3100062	Hi-Flo	Y8	490 x 592 x 635	F8	8	6.3	2800/130	2.5	0.18
3100063	Hi-Flo	Z8	287 x 592 x 635	F8	5	3.9	1700/130	2.0	0.11

Other sizes are available on request.
25 mm header frame, if a 20mm header frame is required please specify.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice



Ed. 2006/07

Extended Surface Compact Multi-Pocket Bag Filter

ADVANTAGES

- Compact size
- Robust metal header frame
- High efficiency
- Large surface area
- Controlled media spacing (CMS)

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

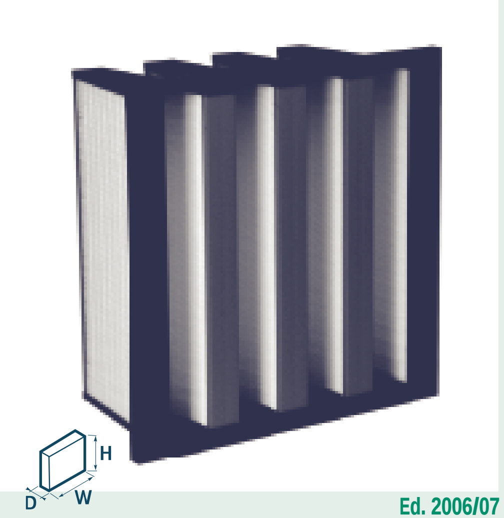
Hi-Flo S

Application: Air conditioning applications.
Type: Compact multi-pocket bag filter.
Header frame : Galvanised steel.
Media: Glass Fibre.
Efficiency EN 779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.
Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70° C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Number of pockets	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
3100021	Hi-Flo	3S-65	592 x 592 x 915	F6	10	11.2	3400/60	3.5	0.32
3100022	Hi-Flo	3T-65	490 x 592 x 915	F6	8	8.8	2850/55	3.1	0.27
3100023	Hi-Flo	3U-65	287 x 592 x 915	F6	5	5.7	1700/60	2.1	0.16
3100049	Hi-Flo	3S-85	592 x 592 x 915	F7	10	11.2	3400/60	2.9	0.32
3100050	Hi-Flo	3T-85	490 x 592 x 915	F7	8	8.8	2850/60	2.6	0.27
3100051	Hi-Flo	3U-85	287 x 592 x 915	F7	5	5.7	1700/60	1.8	0.16
3100077	Hi-Flo	3S-95	592 x 592 x 915	F8	10	11.2	3400/90	3.0	0.32
3100078	Hi-Flo	3T-95	490 x 592 x 915	F8	8	8.8	2850/85	2.6	0.27
3100079	Hi-Flo	3U-95	287 x 592 x 915	F8	5	5.7	1700/90	1.9	0.16

Other sizes are available on request.
25mm header frame, if a 20mm header frame is required please specify

High Efficiency



Ed. 2006/07

Rigid Compact Filter

ADVANTAGES

- Compact, incinerable
- Large filtering surface area
- Long operating life
- Light and robust
- Rigid
- Rapid installation

☺ ***Camfil hints!*** *Health: the UNICLIMA “Air Conditioning & Health” Guide and EUROVENT 12/1-92 recommend 85% opa (F7) entering air-conditioning systems.*

camfil FARR

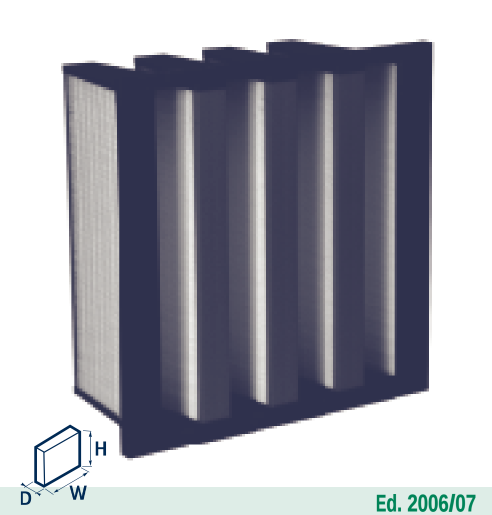
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

OPAKFIL G

Application: Air conditioning applications and secondary filtration for clean rooms.
Type: High efficiency, incinerable filter.
Frame: 25 mm thick flange, polypropylene and ABS.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
EN 779 efficiency: F6, F7, F8, F9.
Opacimetric efficiency: 65%, 85%, 95%, 98%.
EUROVENT 4/5 efficiency: EU6, EU7, EU8, EU9.
Recommended final pressure drop: 450 Pa (economic 350 Pa).
Maximum flow rate: 1.3 x nominal flow rate.
Temperature: 70°C maximum in continuous service.
Mounting system: Front and side access housing and frames are available, type 8 and FC housings.

Reference	Type	Model	Dimensions (WxHxD) mm	EN 779 efficiency	Media surface m^2	Air flow/pressure drop m^3/h / Pa	Unit weight kg	Unit volume m^3
2400001	Opakfil-G	30PGHF-242412-60	595 x 592 x 290	F6	19	4250/62	5.0	0.10
2400002	Opakfil-G	30PGHF-242012-60	595 x 490 x 290	F6	15	2850/67	4.0	0.08
2400003	Opakfil-G	30PGHF-241212-60	595 x 287 x 290	F6	9	1700/70	3.0	0.05
2400004	Opakfil-G	30PGHF-242412-90	595 x 592 x 290	F7	19	3400/78	5.0	0.10
2400005	Opakfil-G	30PGHF-242012-90	595 x 490 x 290	F7	15	2850/87	4.0	0.08
2400006	Opakfil-G	30PGHF-241212-90	595 x 287 x 290	F7	9	1700/85	3.0	0.05
2400007	Opakfil-G	30PGHF-242412-95	595 x 592 x 290	F8	19	3400/101	5.0	0.10
2400008	Opakfil-G	30PGHF-242012-95	595 x 490 x 290	F8	15	2850/102	4.0	0.08
2400009	Opakfil-G	30PGHF-241212-95	595 x 287 x 290	F8	9	1700/101	3.0	0.05
2400010	Opakfil-G	30PGHF-242412-98	595 x 592 x 290	F9	19	3400/128	5.0	0.10
2400011	Opakfil-G	30PGHF-242012-98	595 x 490 x 290	F9	15	2850/128	4.0	0.08
2400012	Opakfil-G	30PGHF-241212-98	595 x 287 x 290	F9	9	1700/128	3.0	0.05

High Efficiency



Ed. 2006/07

Rigid Compact Filter

ADVANTAGES

- Compact, incinerable
- Large filtering surface area
- Long operating life
- Light and robust
- Rigid
- Rapid installation

☺ ***Camfil hints!*** *Health: the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 recommend 85% opa (F7) entering air-conditioning systems.*

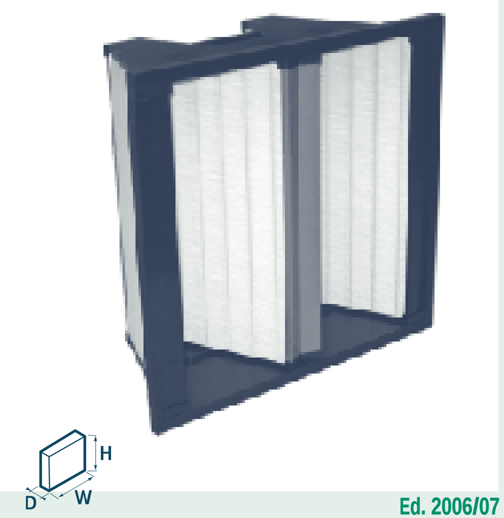
OPAKFIL CC

Application: Air conditioning applications and secondary filtration in clean rooms.
Type: High efficiency, incinerable filter.
Frame: 25 mm thick flange, polypropylene and ABS.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
EN 779 efficiency: F6, F7, F8, F9.
Opacimetric efficiency: 65%, 85%, 95%, 98%.
EUROVENT 4/5 efficiency: EU6, EU7, EU8, EU9.
Recommended final pressure drop: 450 Pa (economic 350 Pa).
Maximum flow rate: 1.3 x nominal flow rate.
Temperature: 70°C maximum in continuous service.
Mounting system: Front and side access housing and frames are available, type 8 and FC housings.

Reference	Type	Model	Dimensions (WxHxD) mm	EN 779 efficiency	Media surface m^2	Air flow/pressure drop m^3/h / Pa	Unit weight kg	Unit volume m^3
2410001	Opakfil-CC	30PCCHF-242412-60	595 x 592 x 290	F6	14.3	4250/115	5	0.10
2410002	Opakfil-CC	30PCCHF-242012-60	595 x 490 x 290	F6	11.3	3400/115	4	0.08
2410003	Opakfil-CC	30PCCHF-241212-60	595 x 287 x 290	F6	6.8	2125/135	3	0.05
2410004	Opakfil-CC	30PCCHF-242412-90	595 x 592 x 290	F7	14.3	4250/120	5	0.10
2410005	Opakfil-CC	30PCCHF-242012-90	595 x 490 x 290	F7	1.3	3400/120	4	0.08
2410006	Opakfil-CC	30PCCHF-241212-90	595 x 287 x 290	F7	6.8	2125/135	3	0.05
2410007	Opakfil-CC	30PCCHF-242412-95	595 x 592 x 290	F8	14.3	4250/145	5	0.10
2410008	Opakfil-CC	30PCCHF-242012-95	595 x 490 x 290	F8	11.3	3400/145	4	0.08
2410009	Opakfil-CC	30PCCHF-241212-95	595 x 287 x 290	F8	6.8	2125/170	3	0.05
2410010	Opakfil-CC	30PCCHF-242412-98	595 x 592 x 290	F9	14.3	4250/215	5	0.10
2410011	Opakfil-CC	30PCCHF-242012-98	595 x 490 x 290	F9	11.3	2400/215	4	0.08
2410012	Opakfil-CC	30PCCHF-241212-98	595 x 287 x 290	F9	6.8	2125/215	3	0.05

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

High Efficiency



Ed. 2006/07

Rigid Compact Filter

ADVANTAGES

- Compact, incinerable
- Large filtering surface area
- Long operating life
- Light and robust
- Rigid
- Rapid installation

☺ ***Camfil hints!*** *Health: the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 recommend 85% opa (F7) entering air-conditioning systems.*

camfil FARR

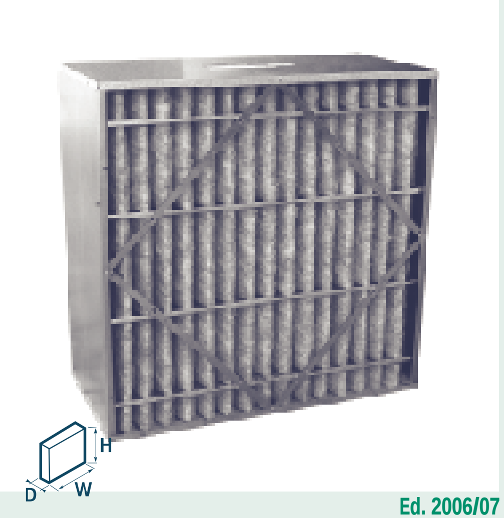
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

OPAKFIL 2V

Application: Air conditioning applications and secondary filtration for clean rooms.
Type: High efficiency, incinerable filter.
Frame: 25 mm thick flange, polypropylene and ABS.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
EN 779 efficiency: F6, F7, F8
Opacimetric efficiency: 65%, 85%, 95%.
EUROVENT 4/5 efficiency: EU6, EU7, EU8
Recommended final pressure drop: 380 Pa (economic 250 Pa).
Maximum flow rate: 1.3 x nominal flow rate.
Temperature: 70°C maximum in continuous service.
Mounting system: Front and side access housing and frames are available, type 8 and FC housings.

Reference	Type	Model	Dimensions (WxHxD) mm	EN 779 efficiency	Media surface m^2	Air flow/pressure drop m^3/h / Pa	Unit weight kg	Unit volume m^3
2480001	Opakfil-2V	242412-60	594 x 594 x 280	F6	9.6	3400/65	3.3	0.10
2480002	Opakfil-2V	242012-60	594 x 480 x 280	F6	7.6	2850/74	2.8	0.08
2480003	Opakfil-2V	241212-60	594 x 287 x 280	F6	4.2	1700/78	2.1	0.05
2480004	Opakfil-2V	242412-90	594 x 594 x 280	F7	9.6	3400/100	3.3	0.10
2480005	Opakfil-2V	242012-90	594 x 480 x 280	F7	7.6	2850/104	2.8	0.08
2480006	Opakfil-2V	241212-90	594 x 287 x 280	F7	4.2	1700/117	2.1	0.05
2480007	Opakfil-2V	242412-95	594 x 594 x 280	F8	9.6	3400/130	3.3	0.10
2480008	Opakfil-2V	242012-95	594 x 480 x 280	F8	7.6	2850/132	2.8	0.08
2480009	Opakfil-2V	241212-95	594 x 287 x 280	F8	4.2	1700/130	2.1	0.05

High Efficiency



Ed. 2006/07

Deep Pleated Compact Filter

ADVANTAGES

- Range of standard sizes
- Rigid design concept
- High efficiency

☺ **CAMFIL hints!** Health : the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) enteringair - conditioning systems.

RIGA FLO

Application: Air conditioning applications.
Type: Rigid pleated filter.
Case: Galvanised steel.
Media: Glass fibre.
Efficiency EN779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.

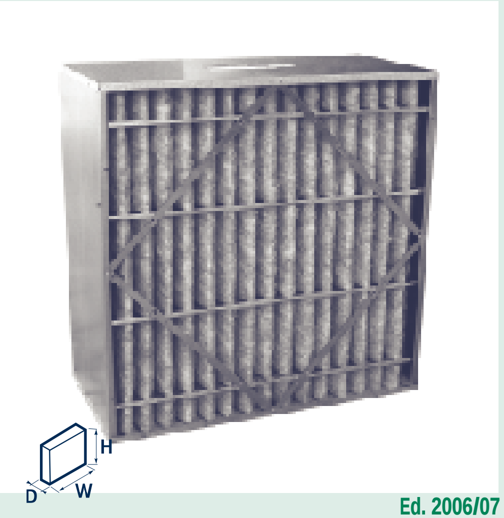
Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN779	Media surface m²	Air flow/pressure drop at m³/h / Pa	Unit weight kg	Unit volume m³
96026001	Riga Flo	RF15 CL2 24x24x12	594 x 594 x 292	F6	5.39	3400/73	7.70	0.10
96026002	Riga Flo	RF100 CL2 24x24x12	594 x 594 x 292	F7	5.39	3400/125	7.70	0.10
96026003	Riga Flo	RF200 CL2 24x24x12	594 x 594 x 292	F8	5.39	3400/170	7.70	0.10
96026005	Riga Flo	RF15 CL2 24x12x12	594 x 594 x 292	F6	2.69	1700/73	7.70	0.10
96026006	Riga Flo	RF100 CL2 24x12x12	289 x 594 x 292	F7	2.69	1700/125	4.55	0.05
96026007	Riga Flo	RF200 CL2 24x12x12	289 x 594 x 292	F8	2.69	1700/170	4.55	0.05
96026010	Riga Flo	RF100 CL2 24x20x12	594 x 492 x 292	F7	4.37	2522/125	2.57	0.09
96026011	Riga Flo	RF200 CL2 24x20x12	492 x 594 x 292	F8	4.37	2522/170	2.57	0.09
96026014	Riga Flo	RF100 CL2 20x20x12	492 x 492 x 292	F7	3.62	2380/125	5.77	0.07
96026015	Riga Flo	RF200 CL2 20x20x12	492 x 492 x 292	F8	3.62	2380/170	5.77	0.07
96966002	Riga Flo	RF15 PH-A CL2 24x24x12	592 x 592 x 292	F6	4.65	3400/103	7.70	0.10
96966004	Riga Flo	RF200 PH-A CL2 24x24x12	592 x 592 x 292	F8	4.65	3400/205	7.70	0.10
96966008	Riga Flo	RF200 PH-A CL2 24x12x12	592 x 287 x 292	F8	2.04	1700/205	4.55	0.05
96966010	Riga Flo	RF15 PH-A CL2 24x20x12	490 x 592 x 292	F6	3.62	2822/103	5.77	0.08
97293001	Riga Flo	RF15 CL2 24x24x6	594 x 594 x 149	F6	2.69	2040/60	7.70	0.05
97293002	Riga Flo	RF100 CL2 24x24x6	594 x 594 x 149	F7	2.69	2040/103	7.70	0.05
97293003	Riga Flo	RF200 CL2 24x24x6	594 x 594 x 149	F8	2.69	2400/140	4.55	0.05
97293005	Riga Flo	RF15 CL2 24x12x6	289 x 594 x 149	F6	1.30	1020/60	2.21	0.03
97293007	Riga Flo	RF200 CL2 24x12x6	289 x 594 x 149	F8	1.30	1020/140	2.21	0.03
97293009	Riga Flo	RF15 CL2 24x20x6	492 x 594 x 149	F6	2.23	1692/60	5.77	0.09

other sizes are available on request
PH version also available (with header frame)

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

camfil FARR

High Efficiency



Ed. 2006/07

Deep Pleated Compact Filter

ADVANTAGES

- Range of standard sizes
- Rigid design concept
- High efficiency

CAMFIL hints! Health : the UNICLIMA “Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) enteringair - conditioning systems.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

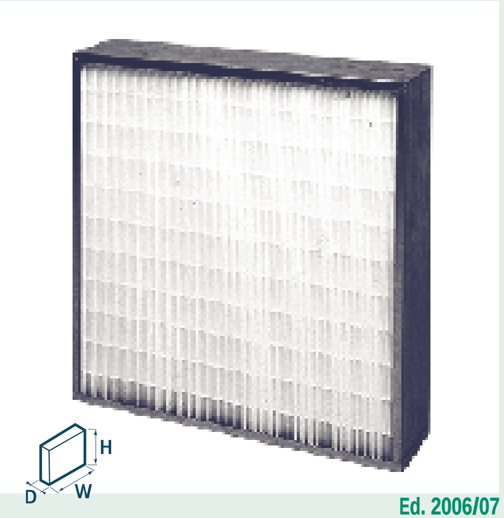
RIGA FLO P

Application: Air conditioning applications.
Type: Rigid pleated filter.
Case: Galvanised steel.
Media: Synthetic fibre.
Efficiency EN779: F7 (80-85%), F8 (90-95%)
Efficiency Eurovent 4/5: EU7, EU8.
The filter shall be approved by Underwriters' Laboratories as Class (2)

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN779	Media surface m²	Air flow/pressure drop at m³/h / Pa	Unit weight kg	Unit volume m³
122556003	Riga Flo	RFP85 CL2 24x24x12	594 x 594 x 292	F7	5.39	3400/70	7.70	0.09
122556004	Riga Flo	RFP95 CL2 24x24x12	594 x 594 x 292	F8	5.39	3400/90	7.70	0.09
122556013	Riga Flo	RFP85 CL2 24x12x12	289 x 594 x 292	F7	2.60	1700/70	4.55	0.05
122556014	Riga Flo	RFP95 CL2 24x12x12	289 x 594 x 292	F8	2.60	1700/90	4.55	0.05
122556023	Riga Flo	RFP85 CL2 24x20x12	492 x 594 x 292	F7	4.37	2822/70	5.77	0.09
122556024	Riga Flo	RFP95 CL2 24x20x12	492 x 594 x 292	F8	4.37	2322/90	5.77	0.09
122556033	Riga Flo	RFP85 CL2 20x20x12	492 x 492 x 292	F7	3.62	2380/70	5.77	0.07
122556034	Riga Flo	RFP95 CL2 20x20x12	492 x 492 x 292	F8	3.62	2330/90	5.77	0.07

other sizes are available on request
PH version also available (with header frame)



Ed. 2006/07

Close Pleated Compact Filter

ADVANTAGES

- Close pleat design
- Range of standard sizes
- Rigid design concept
- High efficiency

☺ **CAMFIL hints!** Health : the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) enteringair - conditioning systems.

Camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

AIROPAC 3GGM

Application: Air conditioning applications.
Type: Rigid pleated filter.
Case: Galvanised steel.
Media: Glass fibre.
Efficiency EN779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8
Separator : Hot-melt beads
Sealant : Polyurethane

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
2100001	Airopac	3GGM-24246-60	610 x 610 x 150	F6	12.3	3400/66	6.8	0.06
2100002	Airopac	3GGM-20246-60	508 x 610 x 150	F6	10.3	2850/67	5.7	0.05
2100003	Airopac	3GGM-12246-60	305 x 610 x 150	F6	6.1	1700/68	4.0	0.03
2100004	Airopac	3GGM-20206-60	508 x 508 x 150	F6	8.6	2375/67	5.0	0.01
2100005	Airopac	3GGM-242412-60	610 x 610 x 292	F6	12.3	3400/66	9.6	0.11
2100006	Airopac	3GGM-202412-60	508 x 610 x 292	F6	10.3	2850/67	8.3	0.09
2100007	Airopac	3GGM-122412-60	305 x 610 x 292	F6	6.1	1700/68	5.4	0.05
2100008	Airopac	3GGM-202012-60	508 x 508 x 292	F6	8.6	2375/67	7.3	0.08
2100009	Airopac	3GGM-24246-90	610 x 610 x 150	F7	12.3	3400/100	6.8	0.06
2100010	Airopac	3GGM-20246-90	508 x 610 x 150	F7	10.3	2850/100	5.7	0.05
2100011	Airopac	3GGM-12246-90	305 x 610 x 150	F7	6.1	1700/101	4.0	0.03
2100012	Airopac	3GGM-20206-90	508 x 508 x 150	F7	8.6	2375/100	5.0	0.04
2100013	Airopac	3GGM-242412-90	610 x 610 x 292	F7	12.3	3400/100	9.6	0.11
2100014	Airopac	3GGM-202412-90	508 x 610 x 292	F7	10.3	2850/100	8.3	0.09
2100015	Airopac	3GGM-122412-90	305 x 610 x 292	F7	6.1	1700/101	5.4	0.05
2100016	Airopac	3GGM-202012-90	508 x 508 x 292	F7	8.6	2375/100	7.3	0.08
2100017	Airopac	3GGM-24246-95	610 x 610 x 150	F8	12.3	3400/131	6.8	0.06
2100018	Airopac	3GGM-20246-95	508 x 610 x 150	F8	10.3	2850/132	5.7	0.05
2100019	Airopac	3GGM-12246-95	305 x 610 x 150	F8	6.1	1700/133	4.0	0.03
2100020	Airopac	3GGM-20206-95	508 x 508 x 150	F8	8.6	2375/132	5.0	0.08
2100021	Airopac	3GGM-242412-95	610 x 610 x 292	F8	12.3	3400/131	9.6	0.11
2100022	Airopac	3GGM-202412-95	508 x 610 x 292	F8	10.3	2850/132	8.3	0.09
2100023	Airopac	3GGM-122412-95	305 x 610 x 292	F8	6.1	1700/133	5.4	0.05
2100024	Airopac	3GGM-202012-95	508 x 508 x 292	F8	8.6	2375/132	7.3	0.08

other sizes are available on request

Ed. 2006/07

Close Pleated Compact Filter

ADVANTAGES

- Close pleat design
- Range of standard sizes
- Rigid design concept
- High efficiency

CAMFIL hints! Health : the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) entering air - conditioning systems.

camfil FARR

AIROPAC 3GGMHF

Application: Air conditioning applications.
Type: Rigid pleated filter.
Case: Galvanised steel.
Media: Glass fibre.
Efficiency EN779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8
Separator : Hot-melt beads.
Sealant : Polyurethane

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
2120001	Airopac	3GGMHF-24245-60	592 x 592 x 135	F6	10.3	3400/86	6.8	0.05
2120002	Airopac	3GGMHF-20245-60	490 x 592 x 135	F6	8.3	2850/91	5.7	0.05
2120003	Airopac	3GGMHF-12245-60	287 x 592 x 135	F6	4.5	1700/105	3.8	0.02
2120004	Airopac	3GGMHF-20205-60	490 x 490 x 135	F6	6.8	2375/94	5.0	0.03
2120005	Airopac	3GGMHF-24245-90	592 x 592 x 135	F7	10.3	3400/125	6.8	0.05
2120006	Airopac	3GGMHF-20245-90	490 x 592 x 135	F7	8.3	2850/131	5.7	0.04
2120007	Airopac	3GGMHF-12245-90	287 x 592 x 135	F7	4.5	1700/149	3.8	0.02
2120008	Airopac	3GGMHF-20205-90	490 x 490 x 135	F7	6.8	2375/135	5.0	0.03
2120009	Airopac	3GGMHF-24245-95	592 x 592 x 135	F8	10.3	3400/164	6.8	0.05
2120010	Airopac	3GGMHF-20245-95	490 x 592 x 135	F8	8.3	2850/172	5.7	0.04
2120011	Airopac	3GGMHF-12245-95	287 x 592 x 135	F8	4.5	1700/195	3.8	0.02
2120012	Airopac	3GGMHF-20205-95	490 x 490 x 135	F8	6.8	2375/177	5.0	0.03

other sizes are available on request

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

High Efficiency

Ed. 2006/07

Close Pleated Compact Filter

ADVANTAGES

- Range of standard sizes
- Rigid design concept
- High efficiency

CAMFIL hints! Health : the UNICLIMA “Air Conditioning & Health” Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) enteringair - conditioning systems.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

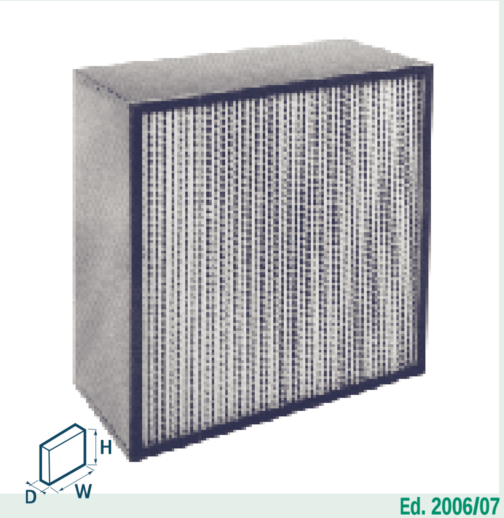
AIROPAC GREEN

Application: Primary filter for air-conditioning system
Type: High performance disposable pleated panel filter
Case: Rigid water resistance bevarage cardboard
Media: Glass fibre, hotmelt separators.
Efficiency EN779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 450 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
2700001	Airopac	3GP-24244-60	594 x 594 x 95	F6	10.9	3400/71	3.0	0.034
2700002	Airopac	3GP-20244-60	492 x 594 x 95	F6	9.0	2810/71	2.5	0.028
2700003	Airopac	3GP-12244-60	289 x 594 x 95	F6	5.3	1645/84	1.6	0.016
2700004	Airopac	3GP-20204-60	492 x 492 x 95	F6	7.5	2325/75	2.1	0.023
2700013	Airopac	3GP-24244-90	594 x 594 x 95	F7	10.9	3400/134	3.1	0.034
2700014	Airopac	3GP-20244-90	492 x 492 x 95	F7	9.0	2810/138	2.5	0.028
2700015	Airopac	3GP-12244-90	289 x 594 x 95	F7	5.3	1645/158	1.6	0.016
2700016	Airopac	3GP-20204-90	492 x 492 x 95	F7	7.5	2325/142	2.1	0.023
2700025	Airopac	3GP-24244-95	594 x 594 x 95	F8	10.9	3400/154	3.1	0.034
2700026	Airopac	3GP-20244-95	492 x 594 x 95	F8	9.0	2810/159	2.5	0.028
2700027	Airopac	3GP-12244-95	289 x 594 x 95	F8	5.3	1645/179	1.6	0.016
2700028	Airopac	3GP-20204-95	492 x 492 x 95	F8	7.5	2325/163	2.1	0.023

other sizes are available on request



Ed. 2006/07

Deep Pleated Compact Filter

ADVANTAGES

- Range of standard sizes
- Rigid design concept
- High efficiency

CAMFIL hints! Health : the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) enteringair - conditioning systems.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

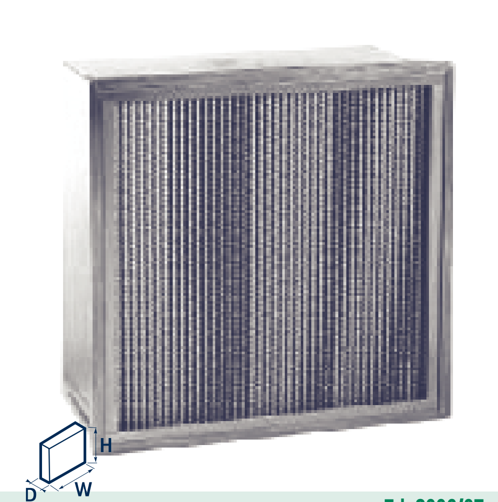
AEROPAC 3CPM

Application: Air conditioning applications.
Type: Rigid pleated filter.
Case: Galvanised steel.
Media: Glass fibre, aluminium separators.
Efficiency EN779: F6 (60-65%), F7 (80-85%), F8 (90-95%)
Efficiency Eurovent 4/5: EU6, EU7, EU8

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 600 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class 1.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
2150001	Aeropac	3CPM-122412-60	305 x 610 x 292	F6	7.8	1700/77	6.4	0.05
2150002	Aeropac	3CPM-242412-60	610 x 610 x 292	F6	15.7	3400/77	8.6	0.11
2151007	Aeropac	3CPM-242412-90	610 x 610 x 292	F7	15.7	3400/114	8.6	0.05
2151008	Aeropac	3CPM-122412-90	305 x 610 x 292	F7	7.8	1700/114	6.4	0.11
2152003	Aeropac	3CPM-242412-95	610 x 610 x 292	F8	15.7	3400/136	8.6	0.11
2152004	Aeropac	3CPM-122412-95	305 x 610 x 292	F8	7.8	1700/136	6.4	0.05

other sizes are available on request



Ed. 2006/07

Deep Pleated Compact Filter

ADVANTAGES

- Range of standard sizes
- Rigid design concept
- High efficiency

CAMFIL hints! Health : the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) entering air - conditioning systems.

AEROPAC 3CPMHF

Application: Air conditioning applications.
Type: Rigid pleated filter.
Case: Galvanised steel.
Media: Glass fibre, aluminium separators.
Efficiency EN779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7 EU8.

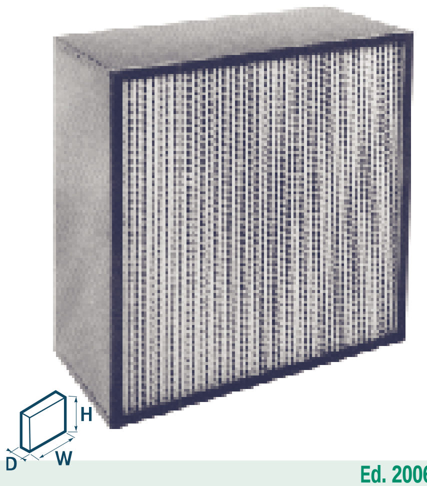
Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 600 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (1).

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
2130002	Aeropac	3CPMHF-122412-60	287 x 592 x 292	F6	5.6	1700/133	6.4	0.05
2130003	Aeropac	3CPMHF-242412-60	592 x 592 x 292	F6	13.1	3400/104	8.6	0.10
2130004	Aeropac	3CPMHF-202412-60	490 x 592 x 292	F6	10.7	2777/104	8.2	0.08
2130006	Aeropac	3CPMHF-202012-60	490 x 490 x 292	F6	8.7	2330/109	7.7	0.07
2131001	Aeropac	3CPMHF-242412-90	592 x 592 x 292	F7	13.1	3400/145	8.6	0.10
2131002	Aeropac	3CPMHF-122412-90	287 x 592 x 292	F7	5.6	1700/177	6.4	0.05
2132001	Aeropac	3CPMHF-242412-95	592 x 592 x 292	F8	13.1	3400/170	8.6	0.10
2132002	Aeropac	3CPMHF-122412-95	287 x 592 x 292	F8	5.6	1679/200	6.4	0.05
2132003	Aeropac	3CPMHF-202012-95	490 x 490 x 292	F8	8.7	2275/170	7.7	0.07
2132005	Aeropac	3CPMHF-202412-95	490 x 592 x 292	F8	10.7	2777/169	8.2	0.07

other sizes are available on request

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

High Efficiency



Ed. 2006/07

Deep Pleated Compact Filter

ADVANTAGES

- Range of standard sizes
- Rigid design concept
- High efficiency

☺ **CAMFIL hints!** Health : the UNICLIMA “Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) entering air - conditioning systems.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

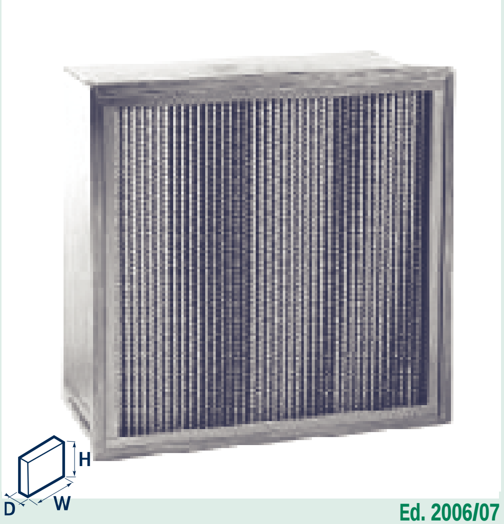
3CPM AEROPAC

Application: Air conditioning applications.
Type: Rigid pleated filter.
Case: Galvanised steel.
Media: Glass fibre, aluminium separators.
Efficiency EN779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6, EU7, EU8.

Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 600 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (1)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
2155001	Aeropac	3CPM-65-242412	592 x 592 x 292	F6	10.02	3400/115	8.6	0.10
2155002	Aeropac	3CPM-65-241212	287 x 592 x 292	F6	5.6	1700/128	6.4	0.05
2156001	Aeropac	3CPM-85-242412	592 x 592 x 292	F7	10.02	3400/153	8.6	0.10
2156002	Aeropac	3CPM-85-241212	287 x 592 x 292	F7	5.6	1700/172	6.4	0.05
2157002	Aeropac	3CPM-95-241212	287 x 592 x 292	F8	5.6	1700/198	6.4	0.05
2157003	Aeropac	3CPM-95-242412	592 x 592 x 292	F8	10.02	3400/183	8.6	0.10

other sizes are available on request



Ed. 2006/07

Deep Pleated Compact Filter

ADVANTAGES

- Range of standard sizes
- Rigid design concept
- High efficiency

CAMFIL hints! Health : the UNICLIMA “Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85% opa (F7) entering air - conditioning systems.

3HCP8 AEROPAC

Application: Air conditioning applications.
Type: Rigid pleated filter.
Case: Galvanised steel.
Media: Glass fibre, aluminium separators.
Efficiency EN779: F6 (60-65%), F7 (80-85%), F8 (90-95%).
Efficiency Eurovent 4/5: EU6 EU7 EU8.

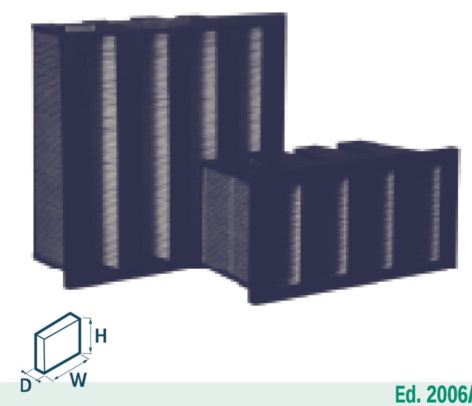
Recommended final pressure drop: 250 Pa (suggested economical change point).
Maximum pressure drop: 600 Pa.
Temperature: 70°C maximum in continuous service.
Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.
The filter shall be approved by Underwriters' Laboratories as Class (1)

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
2135001	Aeropac	3HCP8-65-242412 AEROPAC	592 x 592 x 292	F6	10.02	3400/113	8.6	0.10
2135002	Aeropac	3HCP8-65-122412 AEROPAC	287 x 592 x 292	F6	5.6	1700/113	6.4	0.05
2136001	Aeropac	3HCP8-85-242412 AEROPAC	592 x 592 x 292	F7	10.02	3400/150	8.6	0.10
2136002	Aeropac	3HCP8-85-241212 AEROPAC	287 x 592 x 292	F7	5.6	1700/150	6.4	0.05
2137001	Aeropac	3HCP8-95-242412 AEROPAC	592 x 592 x 292	F8	10.02	3400/163	8.6	0.10
2137002	Aeropac	3HCP8-95-241212 AEROPAC	287 x 592 x 292	F8	5.6	1700/163	6.4	0.05

other sizez are available on request.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

High Efficiency + Molecular Filtration



Ed. 2006/07

Combined 2 Stage Filter

ADVANTAGES

- Compact “2 in 1” solution
- Double action: particle and odour filtration
- Ideal for filtering most low concentration interior and exterior pollutants
- New active principle: RAD, Rapid Adsorption Dynamic
- No dust emission
- 100% incinerable

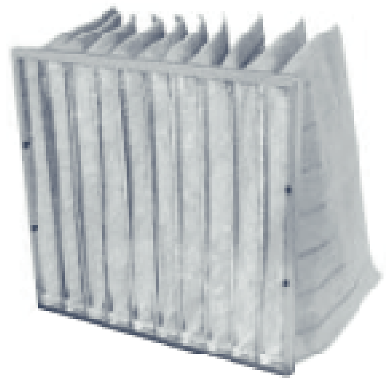
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

CITYCARB

Application: High efficiency particle filtration for deodorization and purification of gas pollutants, used for filtration in offices, airports and industrial workshops.
Type: High efficiency, activated carbon, incinerable filter.
Frame: Polypropylene.
Media: Synthetic fibre.
Efficiency EN779 : F7 (80%-85%)
Maximum flow rate : 4000 m^3/h.
Mounting system : “Camfil universal frame” frames in kit form, FC type housings.
Carbon : Very fine grains of activated carbon.

Reference	Unitary Type volume	Model	Dimensions (WxHxD) mm	Filter grade EN 779	Filter area m^3	Type of carbon	Air flow pressure drop for contact time =0,1 s m^3/h / Pa	Unit weight kg	Unit volume m^3
5716522	CITYCARB	OPKCC-242412-01 PU	592x592x292	F7	3	RAD	3400/120	10.8	0.10
5716532	CITYCARB	OPKCC-242012-01 PU	592x490x292	F7	2.5	RAD	2800/120	9.2	0.08
5716542	CITYCARB	OPKCC-241212-01 PU	592x287x292	F7	1.5	RAD	1500/120	5.4	0.05

High Efficiency + Molecular Filtration



Ed. 2006/07

Combined 2 Stage Filter

ADVANTAGES

- Compact “2 in1 ” solution
- Double action: particle and odour filtration
- Ideal for filtering most low concentration interior and exterior pollutants
- New active principle: RAD, Rapid Adsorption Dynamic
- No dust emission
- 100% incinerable

As part of our continuo us improvement, Camfil Farr reserve the right to chang e specifications without notice

CITY-FLO

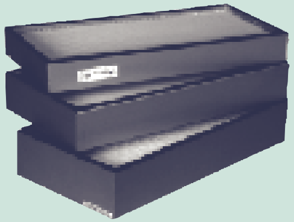
Application: High efficiency particle filtration for deodorization and purification of gas polluants, used for filtration in offices , airports and industrial workshops.
Type: Particle and gas filter
Header frame : Galvanized sheet metal
Media: Glass Fibre and broad spectrum carbon
Temperature : 50 °C max. running temperature
Filterclass EN 779 : (80% - 85%)
Humidity : 70% RH max

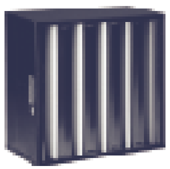
Reference	Type	Model	Diamentions (W xHxD)	Filter grade EN779	Air Flow/pressure drop m^3/h/ Pa	Unit weight kg	Unit volume m^3
544001A3	CITY-FLO	HFZS 592X592X534-10	592x592x534	F7	3400/140	6.0	1.20
544003A3	CITY-FLO	HFZS 490x592x534-8	490x592x534	F7	2550/140	4.6	0.90
544002A3	CITY-FLO	HFZS 287x592x534-5	287x592x534	F7	1700/145	3.5	0.60

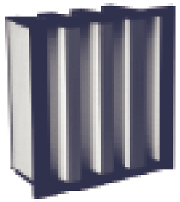
Only standard case
Acid gas version available

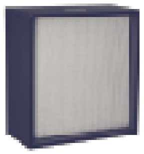
HEPA/ULPA PANELS

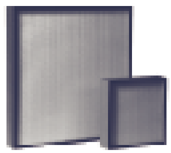
MD 66 mm
MX 90 mm
MG 110 mm

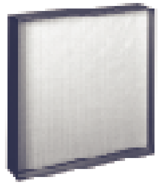


SOFILAIR H11

40

OPAKFIL-G MICRETAIN H10

42

MICRETAIN

44, 45, 46, 47

MIDILAR

52,53

MEGALAM K

64

MIDILAR K38

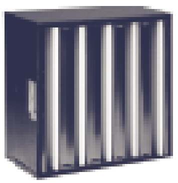
65, 66

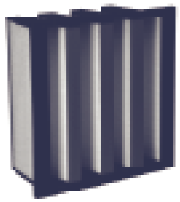
CPXRG

77

SILENT HOOD

78, 79, 80, 81,
82, 83, 84

SOFILAIR H13 H14

41

OPAKFIL-ABSOLUTE H13

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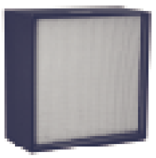
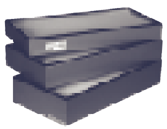
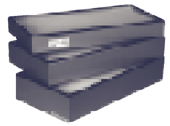
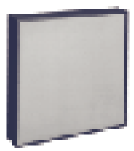
ABSOLUTE

48, 49, 50, 51

MAXILAR, MEGALAR

54,55,56, 57

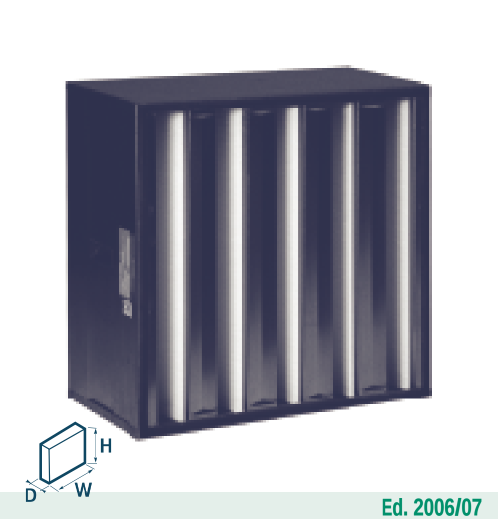
MAXILAR K38,
MEGALAR K38

67,68, 69, 70

MIDILAM/MAXILAM/
MEGALAM

58, 59, 60, 61, 62, 63

MIDILAM K38, MAXILAM K38
MEGALAM K38

71, 72, 73,74, 75, 76

Very High Efficiency



Ed. 2006/07

High Capacity Hepa Filter

ADVANTAGES

- High air flow rates up to 5000 m³/hour
- Low pressure drop
- Tested according to standard EN 1822
- New ergonomic handle

☺ ***Camfil hints!*** *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) using HI-FLO, S-FLO or OPAKFIL*

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

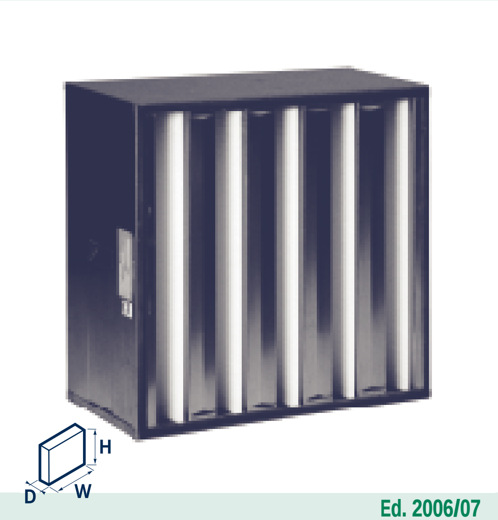
SOFILAIR H11

Application: Very high efficiency final filtration, in air conditioning systems, housings-ducts or diffusers.
Type: High flow rate very high efficiency filter.
Frame: Galvanised steel with handle.
Gasket: Continuous Polyurethane gasket.
Media: Glass fibre paper.
Separator: Hot melt beads.
Sealant: Polyurethane.
EN 1822 efficiency: H11
MPPS efficiency: 95%
DOP efficiency: 99%
Recommended final pressure drop: 600 Pa.
Maximum flow rate: Nominal flow rate otherwise reduction in efficiency.
Temperature: 70°C maximum.
Mounting system: FCBL-A housings-ducts, SOFDISTRI housings-diffusers, CAMSAFE.

Reference	Unit Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop m³/h/Pa	Unit weight kg	Unit volume m³
1700006	Sofilair	Micretain, 1570.01	610 x 610 x 292	H11	35	5000/250	23.0	0.11
1700007	Sofilair	Micretain, 1573.02	610 x 610 x 292	H11	21	4000/250	20.0	0.11
1700008	Sofilair	Micretain, 1575.02	305 x 610 x 292	H11	14	2000/250	14.0	0.05
1700009	Sofilair	Micretain, 1577.01	595 x 595 x 292	H11	38	4200/250	22.0	0.11
1700010	Sofilair	Micretain, 1578.01	289 x 595 x 292	H11	16	1700/250	13.0	0.05

Available in stainless steel version. – Available in 120°C version.

Very High Efficiency



Ed. 2006/07

High Capacity Hepa Filter

ADVANTAGES

- High air flow rates, up to 4000 m^2 per hour
- Optimises the filtration sequence in clean rooms
- Individually tested according to EN1822
- Shipped with test certificate
- New ergonomic handle

☺ ***Camfil hints!*** *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) using HI-FLO, S-FLO or OPAKFIL*

camfil FARR

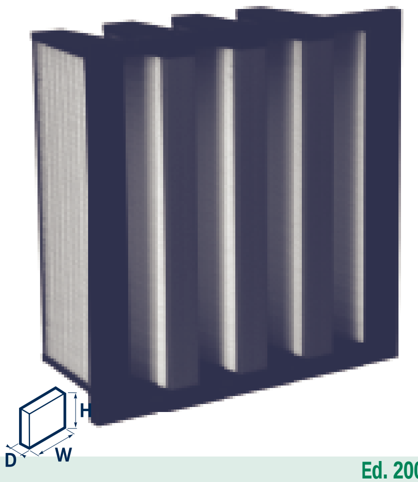
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

SOFILAR H13, H14

Application: Very high efficiency final filtration, in air conditioning systems.
Type: High flow rate HEPA filter.
Frame: Galvanised steel with handle.
Gasket: Continuous Polyurethane gasket.
Media: Glass fibre paper.
Separator: Hot melt beads.
Sealant: Polyurethane.
EN 1822 efficiency: H13/H14.
MPPS efficiency: H13: ≥ 99.95%, H14: ≥ 99.995%.
DOP efficiency: H13: ≥ 99.99%, H14: ≥ 99.999%.
Recommended final pressure drop: 600 Pa.
Maximum flow rate: Nominal flow rate otherwise reduction in efficiency.
Temperature: 70°C maximum.
Mounting system: FCBL-A housings-ducts, SOFDISTRI housings-diffusers, CAMSAFE.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 1822	Media surface m^2	Airf low/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
1700001	Sofilair	Absolute, 1560.02	610 x 610 x 292	H13	40	4000/250	23.0	0.11
1700002	Sofilair	Absolute, 1560.01	610 x 610 x 292	H13	33	3400/250	20.0	0.11
1700003	Sofilair	Absolute, 1565.01	305 x 610 x 292	H13	16	1700/250	13.0	0.05
1700004	Sofilair	Absolute, 1567.01	595 x 595 x 292	H13	38	3200/250	22.0	0.11
1700005	Sofilair	Absolute, 1568.01	289 x 595 x 292	H13	16	1300/250	12.0	0.05
1700011	Sofilair	HEPA, 1560.02.06	610 x 610 x 292	H14	40	3000/250	23.0	0.11
1700013	Sofilair	HEPA, 1565.01.02	305 x 610 x 292	H14	16	1500/250	20.0	0.11
1700016	Sofilair	HEPA, 1560.02.99	610 x 610 x 292	H14	40	3400/250	23.0	0.11
1700018	Sofilair	HEPA, 1565.01.99	305 x 610 x 292	H14	16	1700/250	13.0	0.05

Available in stainless steel version. – Available in 120°C version.



Ed. 2006/07

ADVANTAGES

- Easy to install
- Incinerable
- Up to 4000 m^3/hour air flow

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) using HI-FLO,S -FLO or OPAKFIL*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

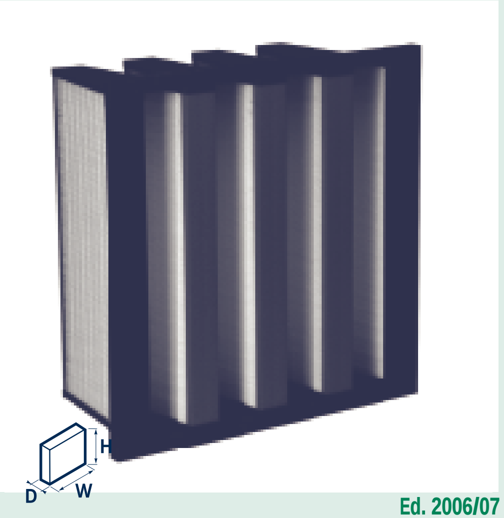
OPAKFIL - G Micretain H10

Application: Final filtration in air conditioning systems, industrial processes.
Type: Very high efficiency, incinerable, compact filter.
Frame: 25 mm thick flange, polypropylene and ABS.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
EN 1822 efficiency : H10

MPPS efficiency: ≥ 85%.
DOP efficiency: ≥ 95%.
Recommended final pressure drop: 450 Pa.
Maximum flow rate: Nominal flow rate otherwise reduction in efficiency.
Temperature: 70°C maximum in continuous service.
Holding Frames: Front and side access housings and frames are available. Type 8 and FC housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Airf low/pressure drop m^3/h / Pa	Unit weight kg	Unit volume m^3
2430001	Micretain	7OPGHF-242412	595 x 592 x 290	H10	19	4000/250	5.0	0.102
2430002	Micretain	7OPGHF-242012	595 x 490 x 290	H10	15	2850/250	4.0	0.08
2430003	Micretain	7OPGHF-241212	595 x 287 x 290	H10	9	1700/250	3.0	0.05

Very High Efficiency



Ed. 2006/07

OPAKFIL - ABSOLUTE H13

Application: Final filtration in air conditioning systems, industrial processes.
Type: Very high efficiency, incinerable, compact filter.
Frame: 25 mm thick flange, polypropylene and ABS.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
EN1822 efficiency: H13.

MPPS efficiency: ≥ 99.95%
DOP efficiency: ≥ 99.99%
Recommended final pressure drop: 500 Pa.
Maximum flow rate: Nominal flow rate otherwise reduction in efficiency.
Temperature: 70°C maximum in continuous service.
Holding Frames: Front and side access housings and frames are available. Type 8 and FC housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Airf low/pressure drop m³/h / Pa	Unit weight kg	Unit volume m³
2440001	Opakfil Absolute	1OPGHF-242412	592 x 592 x 292	H13	28	3000/250	5.0	0.10
2440002	Opakfil Absolute	1OPGHF-241212	592 x 287 x 292	H13	13	1350/250	4.0	0.05
2440003	Opakfil Absolute	1OPGHF-242012	595 x 490 x 292	H13	24	2450/250	3.0	0.09

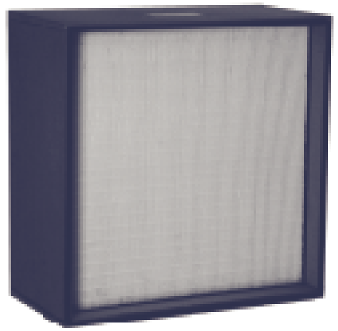
ADVANTAGES

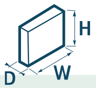
- Easy to install
- Incinerable
- Up to 4000 m^3/hour air flow

☺ ***Camfil hints!*** *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) using HI-FLO,S -FLO or OPAKFIL*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MICRETAIN MDEM / MXEM / GGEM / TREM





Ed. 2006/07

Mini Pleated Absolute Filter

ADVANTAGES

- Range of standard sizes
- Compact design
- Very high efficiency

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective opacimetric prefiltration (F7/F8) using Hi-Flo, S-Flo, or Opakfil*

Application: Very high efficiency final filtration, in air conditioning systems, housings-ducts or diffusers
Type: Close pleated very high efficiency filter
Frame: Electro zinced
Gasket: Continuous Polyurethane gasket.
Media: Pleated glass paper
Separator: Hot melt beads
Sealant: Polyurethane
EN 1822 efficiency: H11
MPPS efficiency: ≥ 95%
DOP efficiency ≅ **0.3 µm:** ≥ 99%
Recommended final pressure drop: 500 Pa
Maximum flow rate: Nominal flow rate, otherwise reduction in efficiency
Temperature: 70°C maximum in continuous service
Mounting systems: FCB Housings, Ducts, Diffusers, CAMSAFE.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow / pressure drop m³/hr/Pa	Unit weight kg	Unit volume m³
1400501	Micretain	MDEM-1200-10/00	1219 x 610 x 150	H11	17.7	2380/125	18.0	0.11
1400502	Micretain	MDEM-980-10/00	914 x 610 x 150	H11	13.3	1790/125	15.0	0.08
1400503	Micretain	MDEM-830-10/00	762 x 610 x 150	H11	11.1	1490/125	13.5	0.07
1400504	Micretain	MDEM-600-10/00	610 x 610 x 150	H11	8.9	1190/125	12.0	0.05
1400505	Micretain	MDEM-500-10/00	575 x 575 x 150	H11	7.8	1055/125	11.0	0.05
1400506	Micretain	MDEM-300-10/00	457 x 457 x 150	H11	4.9	660/125	10.0	0.03
1400507	Micretain	MDEM-220-10/00	305 x 610 x 150	H11	4.4	590/125	6.0	0.03
1400508	Micretain	MDEM-110-10/00	305 x 305 x 150	H11	2.2	290/125	4.0	0.01
1400551	Micretain	MXEM-1200-10/00	1219 x 610 x 150	H11	24.8	3120/125	18.0	0.11
1400552	Micretain	MXEM-980-10/00	914 x 610 x 150	H11	18.6	2335/125	15.0	0.08
1400553	Micretain	MXEM-830-10/00	762 x 610 x 150	H11	15.5	1950/125	13.5	0.07
1400554	Micretain	MXEM-600-10/00	610 x 610 x 150	H11	12.4	1560/125	12.0	0.06
1400555	Micretain	MXEM-500-10/00	575 x 575 x 150	H11	11	1385/125	11.0	0.05
1400556	Micretain	MXEM-300-10/00	457 x 457 x 150	H11	6.9	865/125	10.0	0.03
1400557	Micretain	MXEM-220-10/00	305 x 610 x 150	H11	6.1	770/125	6.0	0.03
1400558	Micretain	MXEM-110-10/00	305 x 305 x 150	H11	3	380/125	4.0	0.01
1400651	Micretain	GGEM-1250-10/00	762 x 610 x 292	H11	18	2380/125	16.0	0.14
1400652	Micretain	GGEM-1000-10/00	610 x 610 x 292	H11	14.4	1900/125	12.5	0.11
1400653	Micretain	GGEM-725-10/00	457 x 610 x 292	H11	10.8	1420/125	9.9	0.08

Other sizes and constructions are available on request
also available in other grades

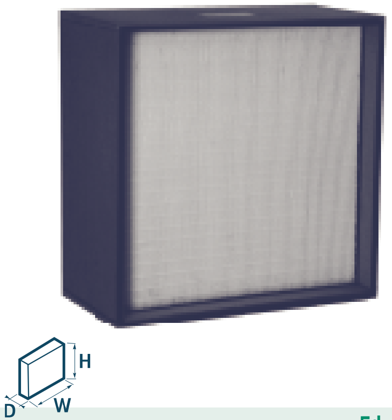
Continue ...

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

camfil FARR

Very High Efficiency

MICRETAIN MDEM / MXEM / GGEM / TREM



Ed. 2006/07

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow / pressure drop m³/hr/Pa	Unit weight kg	Unit volume m³
1400654	Micretain	GGEM-450-10/00	305 x 610 x 292	H11	7.2	950/125	7.2	0.05
1400701	Micretain	TREM-1250-10/00	762 x 610 x 292	H11	27.0	2975/125	16.2	0.14
1400702	Micretain	TREM-1000-10/00	610 x 610 x 292	H11	19.7	2380/125	13.0	0.05
1400703	Micretain	TREM-725-10/00	457 x 610 x 292	H11	14.4	1780/125	10.0	0.08
1400704	Micretain	TREM-450-10/00	305 x 610 x 292	H11	9.2	1190/125	7.2	0.05

Other sizes and contructions are available on request
also available in other grades

Mini Pleated Absolute Filter

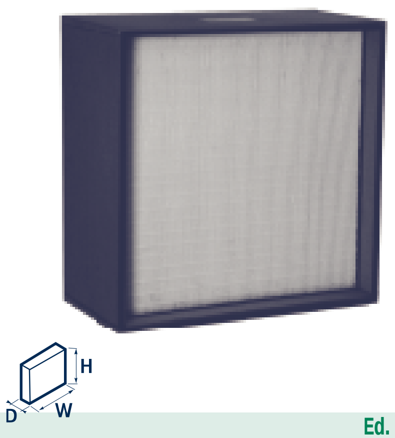
ADVANTAGES

- Range of standard sizes
- Compact design
- Very high efficiency

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective opacimetric prefiltration (F7/F8) using Hi-Flo, S-Flo, or Opakfil*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Very High Efficiency



Ed. 2006/07

Mini Pleated Absolute Filter

ADVANTAGES

- Range of standard sizes
- Compact design
- Very high efficiency

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camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MICRETAIN MDSM / MXSM / GGSM / TRSM

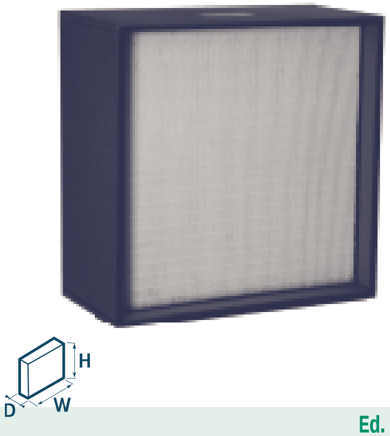
Application: Very high efficiency final filtration, in air conditioning systems, housings-ducts or diffusers
Type: Close pleated very high efficiency filter
Frame: Medium Density Fibre (MDF) board
Gasket: Continuous Polyurethane gasket.
Media: Pleated glass paper
Separator: Hot melt beads
Sealant: Polyurethane
EN 1822 efficiency: H11
MPPS efficiency: ≥ 95%
DOP efficiency ≅ 0.3 µm: ≥ 99%
Recommended final pressure drop: 500 Pa
Maximum flow rate: Nominal flow rate, otherwise reduction in efficiency
Temperature: 70°C maximum in continuous service
Mounting systems: FCB Housings, Ducts, Diffusers, CAMSAFE.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow / pressure drop m³/hr/Pa	Unit weight kg	Unit volume m³
1400751	Micretain	MDSM-1200-10/00	1219 x 610 x 150	H11	16.5	2220/125	18.0	0.11
1400752	Micretain	MDSM-980-10/00	914 x 610 x 150	H11	12.3	1650/125	15.0	0.08
1400753	Micretain	MDSM-830-10/00	762 x 610 x 150	H11	10.1	1370/125	13.5	0.07
1400754	Micretain	MDSM-600-10/00	610 x 610 x 150	H11	8	1080/125	12.0	0.06
1400755	Micretain	MDSM-500-10/00	575 x 575 x 150	H11	7.1	950/125	11.0	0.05
1400756	Micretain	MDSM-300-10/00	457 x 457 x 150	H11	4.3	580/125	10.0	0.03
1400757	Micretain	MDSM-220-10/00	305 x 610 x 150	H11	3.8	505/125	6.0	0.03
1400758	Micretain	MDSM-110-10/00	305 x 305 x 150	H11	1.8	236/125	4.0	0.01
1400801	Micretain	MXSM-1200-10/00	1219 x 610 x 150	H11	23	2900/125	18.0	0.11
1400802	Micretain	MXSM-980-10/00	914 x 610 x 150	H11	17.1	2150/125	15.0	0.08
1400803	Micretain	MXSM-830-10/00	762 x 610 x 150	H11	14.2	1788/125	12.0	0.07
1400804	Micretain	MXSM-600-10/00	610 x 610 x 150	H11	11.2	1410/125	12.0	0.06
1400805	Micretain	MXSM-500-10/00	575 x 575 x 150	H11	9.9	1245/125	11.0	0.05
1400806	Micretain	MXSM-300-10/00	457 x 457 x 150	H11	6	760/125	10.0	0.03
1400807	Micretain	MXSM-220-10/00	305 x 610 x 150	H11	5.3	668/125	6.0	0.03
1400808	Micretain	MXSM-110-10/00	305 x 305 x 150	H11	2.5	310/125	4.0	0.01

Continue ...

Other sizes and constructions are available on request
also available in other grades

Very High Efficiency



Ed. 2006/07

Mini Pleated Absolute Filter

ADVANTAGES

- Range of standard sizes
- Compact design
- Very high efficiency

*☺ **Camfil hints!** To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective opacimetric prefiltration (F7/F8) using Hi-Flo, S-Flo, or Opakfil*

camfil FARR

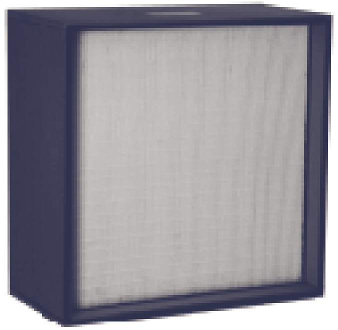
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

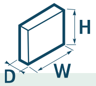
MICRETAIN MDSM / MXSM / GGSM / TRSM

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow / pressure drop m³/hr/Pa	Unit weight kg	Unit volume m³
1400901	Micretain	GGSM-1250-10/00	762 x 610 x 292	H11	16.6	2180/125	16.5	0.14
1400902	Micretain	GGSM-1000-10/00	610 x 610 x 292	H11	13.1	1735/125	13.0	0.11
1400903	Micretain	GGSM-725-10/00	457 x 610 x 292	H11	9.6	1265/125	9.6	0.08
1400904	Micretain	GGSM-450-10/00	305 x 610 x 292	H11	6.2	815/125	7.2	0.05
1400951	Micretain	TRSM-1250-10/00	762 x 610 x 292	H11	24.8	2725/125	16.2	0.14
1400952	Micretain	TRSM-1000-10/00	610 x 610 x 292	H11	19.7	2170/125	13.0	0.05
1400953	Micretain	TRSM-725-10/00	457 x 610 x 292	H11	14.4	1585/125	10.0	0.08
1400954	Micretain	TRSM-450-10/00	305 x 610 x 292	H11	9.2	1015/125	7.2	0.05

Other sizes and constructions are available on request
also available in other grades

ABSOLUTE MDEA / MXEA / GGEA / TREA





Ed. 2006/07

Mini Pleated Absolute Filter

ADVANTAGES

- Range of standard size
- Compact design
- Very high efficiency
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective opacimetric prefiltration (F7/F8) using Hi-Flo, S-Flo, or Opakfil*

Application: Very high efficiency final filtration, in air conditioning systems, housings-ducts or diffusers
Type: Close pleated very high efficiency filter
Frame: Electro zinc
Gasket: Continuous Polyurethane gasket.
Media: Pleated glass paper
Separator: Hot melt
Sealant: Polyurethane
EN 1822 efficiency: H13
MPPS efficiency: ≥ 99.95%
DOP efficiency ≅ **0.3 µm:** ≥ 99.99%
Recommended final pressure drop: 500 Pa
Maximum flow rate: Nominal flow rate, otherwise reduction in efficiency
Temperature: 70°C maximum in continuous service
Mounting systems: FCB Housings, Ducts, Diffusers, CAMSAFE.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow / pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
1400001	Absolute	MDEA-1200-10/00	1219 x 610 x 150	H13	19.7	2618/250	18.0	0.11
1400002	Absolute	MDEA-980-10/00	914 x 610 x 150	H13	14.7	1958/250	15.0	0.08
1400003	Absolute	MDEA-830-10/00	762 x 610 x 150	H13	12.3	1635/250	13.5	0.07
1400004	Absolute	MDEA-600-10/00	610 x 610 x 150	H13	9.8	1305/250	12.0	0.06
1400005	Absolute	MDEA-500-10/00	575 x 575 x 150	H13	8.7	1161/250	11.0	0.05
1400006	Absolute	MDEA-300-10/00	457 x 457 x 150	H13	5.5	726/250	10.0	0.03
1400007	Absolute	MDEA-220-10/00	305 x 610 x 150	H13	4.9	645/250	6.0	0.03
1400008	Absolute	MDEA-110-10/00	305 x 305 x 150	H13	2.4	317/250	4.0	0.01
1400051	Absolute	MXEA-1200-10/00	1219 x 610 x 150	H13	26.8	3131/250	18.0	0.11
1400052	Absolute	MXEA-980-10/00	914 x 610 x 150	H13	20.1	2348/250	15.0	0.08
1400053	Absolute	MXEA-830-10/00	762 x 610 x 150	H13	16.7	1957/250	13.5	0.07
1400054	Absolute	MXEA-600-10/00	610 x 610 x 150	H13	13.4	1565/250	12.0	0.06
1400055	Absolute	MXEA-500-10/00	575 x 575 x 150	H13	11.8	1384/250	11.0	0.05
1400056	Absolute	MXEA-300-10/00	457 x 457 x 150	H13	7.4	867/250	10.0	0.03
1400057	Absolute	MXEA-220-10/00	305 x 610 x 150	H13	6.6	773/250	6.0	0.03
1400058	Absolute	MXEA-110-10/00	305 x 305 x 150	H13	3.2	380/250	4.0	0.01

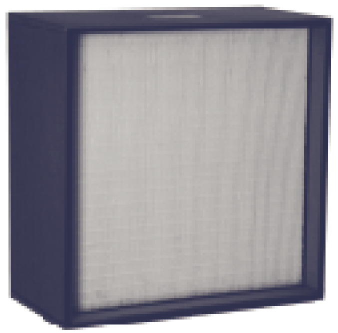
Other sizes and constructions are available on request
also available in other grades

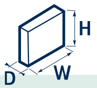
Continue ...

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Very High Efficiency

ABSOLUTE MDEA / MXEA / GGEA / TREA





Ed. 2006/07

Mini Pleated Absolute Filter

ADVANTAGES

- Range of standard sizes
- Compact design
- Very high efficiency
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective opacimetric prefiltration (F7/F8) using Hi-Flo, S-Flo, or Opakfil*

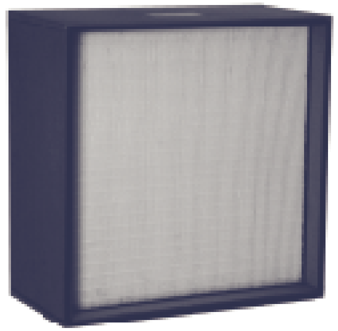
Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow / pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
1400151	Absolute	GGEA-1250-10/00	762 x 610 x 292	H13	19.6	2251/250	16.0	0.14
1400152	Absolute	GGEA-1000-10/00	610 x 610 x 292	H13	15.7	1804/250	12.5	0.11
1400153	Absolute	GGEA-725-10/00	457 x 610 x 292	H13	11.7	1340/250	9.9	0.08
1400154	Absolute	GGEA-450-10/00	305 x 610 x 292	H13	7.8	893/250	7.0	0.05
1400201	Absolute	TREA-1250-10/00	762 x 610 x 292	H13	29.4	3100/250	16.0	0.14
1400202	Absolute	TREA-1000-10/00	610 x 610 x 292	H13	23.5	2485/250	12.5	0.11
1400203	Absolute	TREA-725-10/00	457 x 610 x 292	H13	17.5	1850/250	9.9	0.08
1400204	Absolute	TREA-450-10/00	305 x 610 x 292	H13	11.7	1230/250	7.0	0.05

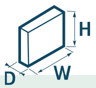
Other sizes and constructions are available on request
also available in other grades

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

camfil FARR

ABSOLUTE MDSA / MXSA / GGSA / TRSA





Ed. 2006/07

Mini Pleated Absolute Filter

ADVANTAGES

- Range of standard sizes
- Compact design
- Very high efficiency
- Individually tested according to EN1822
- Shipped with test certificate

***Camfil hints!** To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective opacimetric prefiltration (F7/F8) using Hi-Flo, S-Flo, or Opakfil*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Application: Very high efficiency final filtration, in air conditioning systems, housings-ducts or diffusers
Type: Close pleated very high efficiency filter
Frame: Medium Density Fibre (MDF) Board
Gasket: Continuous Polyurethane gasket.
Media: Pleated glass paper
Separator: Hot melt
Sealant: Polyurethane
EN 1822 efficiency: H13
MPPS efficiency: ≥ 99.95%
DOP efficiency ≅ 0.3 µm: ≥ 99.99%
Recommended final pressure drop: 500 Pa
Maximum flow rate: Nominal flow rate, otherwise reduction in efficiency
Temperature: 70°C maximum in continuous service
Mounting systems: FCB Housings, Ducts, Diffusers, CAMSAFE.

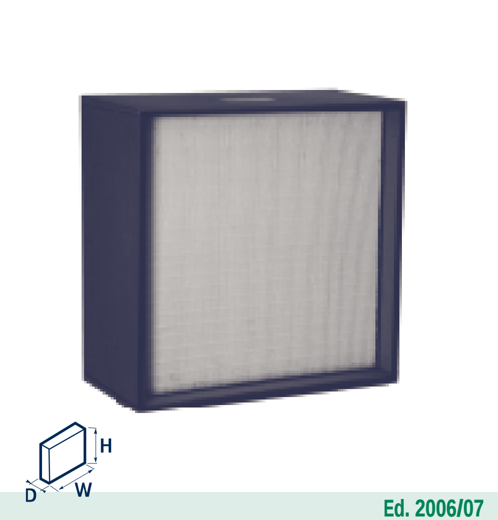
Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow / pressure drop m³/hr/Pa	Unit weight kg	Unit volume m³
1400251	Absolute	MDSA-1200-10/00	1219 x 610 x 150	H13	18.3	2434/250	18.0	0.11
1400252	Absolute	MDSA-980-10/00	914 x 610 x 150	H13	13.6	1805/250	15.0	0.08
1400253	Absolute	MDSA-830-10/00	762 x 610 x 150	H13	11.3	1497/250	13.5	0.07
1400254	Absolute	MDSA-600-10/00	610 x 610 x 150	H13	8.9	1183/250	12.0	0.06
1400255	Absolute	MDSA-500-10/00	575 x 575 x 150	H13	7.9	1046/250	11.0	0.05
1400256	Absolute	MDSA-300-10/00	457 x 457 x 150	H13	4.8	636/250	10.0	0.03
1400257	Absolute	MDSA-220-10/00	305 x 610 x 150	H13	4.2	553/250	6.0	0.03
1400258	Absolute	MDSA-110-10/00	305 x 305 x 150	H13	1.9	258/250	4.0	0.01
1400301	Absolute	MXSA-1200-10/00	1219 x 610 x 150	H13	24.9	2912/250	18.0	0.11
1400302	Absolute	MXSA-980-10/00	914 x 610 x 150	H13	18.5	2166/250	15.0	0.08
1400303	Absolute	MXSA-830-10/00	762 x 610 x 150	H13	15.3	1793/250	13.5	0.07
1400304	Absolute	MXSA-600-10/00	610 x 610 x 150	H13	12.1	1419/250	12.0	0.06
1400305	Absolute	MXSA-500-10/00	575 x 575 x 150	H13	10.7	1247/250	10.0	0.05
1400306	Absolute	MXSA-300-10/00	457 x 457 x 150	H13	6.5	760/250	8.0	0.03
1400307	Absolute	MXSA-220-10/00	305 x 610 x 150	H13	5.7	664/250	6.0	0.03
1400308	Absolute	MXSA-110-10/00	305 x 305 x 150	H13	2.7	310/250	4.0	0.11

Other sizes and constructions are available on request
also available in other grades

Continue ...

Very High Efficiency

ABSOLUTE MDSA / MXSA / GGSA / TRSA



Ed. 2006/07

Mini Pleated Absolute Filter

ADVANTAGES

- Range of standard sizes
- Compact design
- Very high efficiency
- Individually tested according to EN1822
- Shipped with test certificate

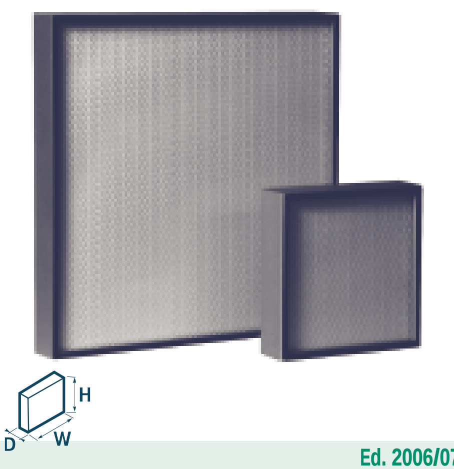
Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective opacimetric prefiltration (F7/F8) using Hi-Flo, S-Flo, or Opakfil*

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow / pressure drop m³/hr/Pa	Unit weight kg	Unit volume m³
1400401	Absolute	GGSA-1250-10/00	762 x 610 x 292	H13	18.1	2075/250	16.0	0.14
1400402	Absolute	GGSA-1000-10/00	610 x 610 x 292	H13	14.2	1635/250	12.5	0.11
1400403	Absolute	GGSA-725-10/00	457 x 610 x 292	H13	10.5	1210/250	9.9	0.08
1400404	Absolute	GGSA-450-10/00	305 x 610 x 292	H13	6.7	770/250	7.0	0.05
1400451	Absolute	TRSA-1250-10/00	762 x 610 x 292	H13	27.1	2855/250	16.2	0.14
1400452	Absolute	TRSA-1000-10/00	610 x 610 x 292	H13	21.3	2250/250	13.0	0.11
1400453	Absolute	TRSA-725-10/00	457 x 610 x 292	H13	15.8	1970/250	10.0	0.08
1400454	Absolute	TRSA-450-10/00	305 x 610 x 292	H13	10.1	1060/250	7.2	0.05

Other sizes and constructions are available on request
also available in other grades

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Very High Efficiency



Ed. 2006/07

FM APPROVED

ADVANTAGES

- Low pressure drop
- Protect with 2 faceguard
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MIDILAR MDM / MD(A) / MDA / MDGS / MDSGS

Application: Final or return filtration for clean rooms with turbulent or laminar flow.
Type: HEPA/ULPA filtering panel with seal for mechanical clamping mounting systems.
Frame: Extruded and anodised aluminium.
Gasket: Polyurethane, endless inlet side
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expanded metal, powder coated white (RAL9016) on both side
EN 1822 efficiency: H11/ H13/H14/U15/U16

MPPS efficiency: H11: ≥ 95%, H13: ≥ 99.95%, ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H11: ≥ 99%, H13: ≥ 99.99%, H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop: 500Pa .

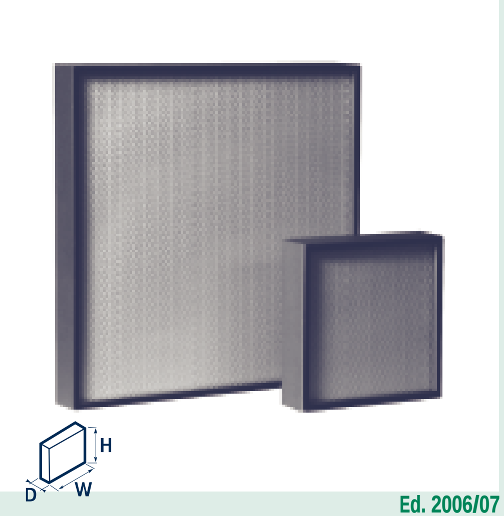
Temperature: 70°C maximum in continuous service.
Mounting system: SM10 or SM20 mechanical clamping structure, SOFDISTRI diffusers.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15012202	Midilar	MDM-914*610-10/22	914 x 610 x 66	H11	13.1	903/60	6.0	0.04
15012203	Midilar	MDM-1219*610-10/22	1219 x 610 x 66	H11	17.5	1205/60	8.0	0.05
15002001	Midilar	MD(A)-305*305-10/22	305 x 305 x 66	H13	2.4	151/119	1.0	0.01
15002002	Midilar	MD(A)-305*610-10/22	305 x 610 x 66	H13	4.8	301/116	2.0	0.01
15002003	Midilar	MD(A)-610*610-10/22	610 x 610 x 66	H13	9.7	603/115	4.0	0.02
15002004	Midilar	MD(A)-762*610-10/22	762 x 610 x 66	H13	12.2	753/115	5.0	0.03
15002005	Midilar	MD(A)-914*610-10/22	914 x 610 x 66	H13	14.6	903/114	6.0	0.04
15002006	Midilar	MD(A)-1219*610-10/22	1219 x 610 x 66	H13	19.5	1205/114	8.0	0.05
15002007	Midilar	MD(A)-1524*610-10/22	1524 x 610 x 66	H13	24.5	1506/114	10.0	0.06
15002008	Midilar	MD(A)-914*762-10/22	914 x 762 x 66	H13	18.4	1128/114	7.5	0.05
15002009	Midilar	MD(A)-1219*762-10/22	1219 x 762 x 66	H13	24.5	1505/114	10.0	0.06
15002010	Midilar	MD(A)-1524*762-10/22	1524 x 762 x 66	H13	30.7	1881/114	12.5	0.08
15002011	Midilar	MD(A)-914*914-10/22	914 x 914 x 66	H13	22.1	1353/113	9.0	0.06
15002201	Midilar	MD A-305*305-10/22	305 x 305 x 66	H14	2.4	151/145	1.0	0.01
15002202	Midilar	MD A-305*610-10/22	305 x 610 x 66	H14	4.8	301/142	2.0	0.01
15002203	Midilar	MD A-610*610-10/22	610 x 610 x 66	H14	9.7	603/141	4.0	0.02
15002204	Midilar	MD A-762*610-10/22	762 x 610 x 66	H14	12.2	753/140	5.0	0.03
15002205	Midilar	MD A-914*610-10/22	914 x 610 x 66	H14	14.6	903/140	6.0	0.04
15002206	Midilar	MD A-1219*610-10/22	1219 x 610 x 66	H14	19.5	1205/140	8.0	0.05
15002207	Midilar	MD A-1524*610-10/22	1524 x 610 x 66	H14	24.5	1506/140	10.0	0.06
15002208	Midilar	MD A-914*762-10/22	914 x 762 x 66	H14	18.4	1128/139	7.5	0.05
15002209	Midilar	MD A-1219*762-10/22	1219 x 762 x 66	H14	24.5	1505/139	10.0	0.06
15002210	Midilar	MD A-1524*762-10/22	1524 x 762 x 66	H14	30.7	1881/139	12.5	0.08
15002211	Midilar	MD A-914*914-10/22	914 x 914 x 66	H14	22.1	1353/139	9.0	0.06

Other dimensions faceguards and gasket arrangment are available on request.

Continue ...

Very High Efficiency



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ADVANTAGES

- Low pressure drop
- Protect with 2 faceguard
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

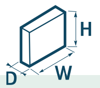
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MIDILAR MDM / MD(A) / MDA / MDGS / MDSGS

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15002401	Midilar	MDGS-305*305-10/22	305 x 305 x 66	U15	2.7	151/150	1.0	0.01
15002402	Midilar	MDGS-305*610-10/22	305 x 610 x 66	U15	5.6	301/146	2.0	0.01
15002403	Midilar	MDGS-610*610-10/22	610 x 610 x 66	U15	11.3	603/146	4.0	0.02
15002404	Midilar	MDGS-762*610-10/22	762 x 610 x 66	U15	14.2	753/145	5.0	0.03
15002405	Midilar	MDGS-914*610-10/22	914 x 610 x 66	U15	17.1	903/145	6.0	0.04
15002406	Midilar	MDGS-1219*610-10/22	1219 x 610 x 66	U15	22.7	1205/145	8.0	0.04
15002407	Midilar	MDGS-1524*610-10/22	1524 x 610 x 66	U15	28.5	1506/144	10.0	0.06
15002408	Midilar	MDGS-914*762-10/22	914 x 762 x 66	U15	21.4	1128/144	7.5	0.05
15002409	Midilar	MDGS-1219*762-10/22	1219 x 762 x 66	U15	28.5	1505/144	10.0	0.06
15002410	Midilar	MDGS-1524*762-10/22	1524 x 762 x 66	U15	35.7	1881/144	12.5	0.08
15002411	Midilar	MDGS-914*914-10/22	914 x 914 x 66	U15	25.8	1353/143	9.0	0.06
15002601	Midilar	MDSGS-305*305-10/22	305 x 305 x 66	U16	3.0	151/162	1.0	0.01
15002602	Midilar	MDSGS-305*610-10/22	305 x 610 x 66	U16	6.1	301/157	2.0	0.01
15002603	Midilar	MDSGS-610*610-10/22	610 x 610 x 66	U16	12.3	603/156	4.0	0.02
15002604	Midilar	MDSGS-762*610-10/22	762 x 610 x 66	U16	15.4	753/156	5.0	0.03
15002605	Midilar	MDSGS-914*610-10/22	914 x 610 x 66	U16	18.6	903/155	6.0	0.04
15002606	Midilar	MDSGS-1219*610-10/22	1219 x 610 x 66	U16	24.7	1205/156	8.0	0.06
15002607	Midilar	MDSGS-1524*610-10/22	1524 x 610 x 66	U16	31.0	1506/155	10.0	0.06
15002608	Midilar	MDSGS-914*762-10/22	914 x 762 x 66	U16	23.3	1128/155	7.5	0.05
15002609	Midilar	MDSGS-1219*762-10/22	1219 x 762 x 66	U16	31.0	1505/155	10.0	0.06
15002610	Midilar	MDSGS-1524*762-10/22	1524 x 762 x 66	U16	38.8	1881/155	12.5	0.08
15002611	Midilar	MDSGS-914*914-10/22	914 x 914 x 66	U16	28.0	1353/154	9.0	0.06

Other demension faceguards and gasket arrangement are available on request.

Very High Efficiency



Ed. 2006/07

FM
APPROVED

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MAXILAR MXA / MXGS / MXSGS

Application: Final or return filtration for clean rooms with turbulent laminar flow.
Type: HEPA/ULPA filtering panel with laminator and seal for mechanical clamping system
Frame: Extruded and anodised aluminium.
Gasket: Polyurethane, endless at inlet side
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expended metal, powder coated white (RAL 9016) on both sides.
EN 1822 efficiency: H14/U15/U16

MPPS efficiency: H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H14: ≥ 99.999%, U15: ≥ 99.9999%, ≥ 99.99999%.
Recommended final pressure drop : 500 Pa
Temperature : 70°C maximum in continuous service.
Mounting system : SM20 mechanical clamping structure, SOFDISTRI housing.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15002801	Maxilar	MXA-305*305-10/22	305 x 305 x 90	H14	3.2	151/99	1.4	0.01
15002802	Maxilar	MXA-305*610-10/22	305 x 610 x 90	H14	6.6	301/96	2.8	0.02
15002803	Maxilar	MXA-610*610-10/22	610 x 610 x 90	H14	13.2	603/96	5.6	0.03
15002804	Maxilar	MXA-762*610-10/22	762 x 610 x 90	H14	16.5	753/95	7.0	0.04
15002805	Maxilar	MXA-914*610-10/22	914 x 610 x 90	H14	19.9	903/95	8.4	0.05
15002806	Maxilar	MXA-1219*610-10/22	1219 x 610 x 90	H14	26.6	1205/95	11.2	0.07
15002807	Maxilar	MXA-1524*610-10/22	1524 x 610 x 90	H14	33.2	1506/95	14.0	0.08
15002808	Maxilar	MXA-914*762-10/22	914 x 762 x 90	H14	24.9	1128/95	10.5	0.06
15002809	Maxilar	MXA-1219*762-10/22	1219 x 762 x 90	H14	33.4	1505/95	14.0	0.08
15002810	Maxilar	MXA-1524*762-10/22	1524 x 762 x 90	H14	41.7	1881/95	17.5	0.10
15002811	Maxilar	MXA-914*914-10/22	914 x 914 x 90	H14	30	1353/95	12.6	0.08
15003001	Maxilar	MXGS-305*305-10/22	305 x 305 x 90	U15	3.7	151/119	1.4	0.01
15003002	Maxilar	MXGS-305*610-10/22	305 x 610 x 90	U15	7.5	301/116	2.8	0.02
15003003	Maxilar	MXGS-610*610-10/22	610 x 610 x 90	U15	15.2	603/115	5.6	0.03
15003004	Maxilar	MXGS-762*610-10/22	762 x 610 x 90	U15	19	753/115	7.0	0.04
15003005	Maxilar	MXGS-914*610-10/22	914 x 610 x 90	U15	22.8	903/115	8.4	0.05
15003006	Maxilar	MXGS-1219*610-10/22	1219 x 610 x 90	U15	30.5	1205/115	11.2	0.07
15003007	Maxilar	MXGS-1524*610-10/22	1524 x 610 x 90	U15	38.1	1506/115	14.0	0.08
15003008	Maxilar	MXGS-914*762-10/22	914 x 762 x 90	U15	28.6	1128/115	10.5	0.06
15003009	Maxilar	MXGS-1219*762-10/22	1219 x 762 x 90	U15	38.2	1505/114	14.0	0.08
15003010	Maxilar	MXGS-1524*762-10/22	1524 x 762 x 90	U15	47.8	1881/114	17.5	0.10
15003011	Maxilar	MXGS-914*914-10/22	914 x 914 x 90	U15	34.4	1353/114	12.6	0.08
15003201	Maxilar	MXSGS-305*305-10/22	305 x 305 x 90	U16	3.9	151/141	1.4	0.01
15003202	Maxilar	MXSGS-305*610-10/22	305 x 610 x 90	U16	8	301/137	2.8	0.02

Other dimension faceguards and gasket arrangement are available on request.

Very High Efficiency

Ed. 2006/07

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ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

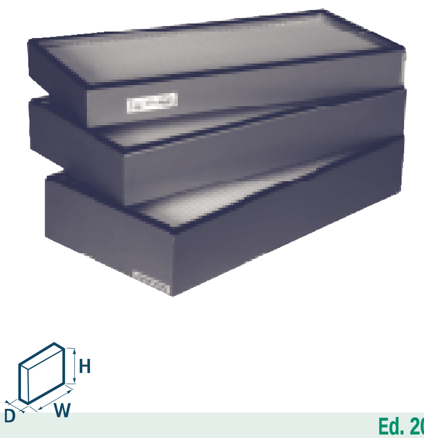
camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MAXILAR MXA / MXGS / MXSGS

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15003203	Maxilar	MXSGS-610*610-10/22	610 x 610 x 90	U16	16.2	603/136	5.6	0.03
15003204	Maxilar	MXSGS-762*610-10/22	762 x 610 x 90	U16	20.3	753/136	7.0	0.04
15003205	Maxilar	MXSGS-914*610-10/22	914 x 610 x 90	U16	24.3	903/136	8.4	0.05
15003206	Maxilar	MXSGS-1219*610-10/22	1219 x 610 x 90	U16	32.4	1205/136	11.2	0.07
15003207	Maxilar	MXSGS-1524*610-10/22	1524 x 610 x 90	U16	40.6	1506/135	14.0	0.08
15003208	Maxilar	MXSGS-914*762-10/22	914 x 762 x 90	U16	30.5	1128/135	10.5	0.06
15003209	Maxilar	MXSGS-1219*762-10/22	1219 x 762 x 90	U16	40.7	1505/135	14.0	0.08
15003210	Maxilar	MXSGS-1524*762-10/22	1524 x 762 x 90	U16	51	1881/135	17.5	0.10
15003211	Maxilar	MXSGS-914*914-10/22	914 x 914 x 90	U16	36.7	1353/135	12.6	0.08

Other dimension faceguards and gasket arrangement are available on request.



Ed. 2006/07

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefilters (F7/F8) or higher if necessary.*

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MEGALAR MGA / MGGS / MGSGS

Application: Final or return filtration for clean rooms with turbulent flow.
Type: ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Gasket: Polyurethane, endless at inlet side
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expended metal, powder coated with RAL 9016 on the sides
EN 1822 efficiency: H14/U15/U16

MPPS efficiency: H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.9999%.
Recommended final pressure drop: 500 Pa.
Temperature: 70°C maximum in continuous service.
Mounting system : SM20 mechanical clamping structure, SOFDISTRI housing.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15003401	Megalar	MGA-305*305-10/22	305 x 305 x 110	H14	4.2	151/62	1.7	0.01
15003402	Megalar	MGA-305*610-10/22	305 x 610 x 110	H14	8.7	301/60	2.9	0.02
15003403	Megalar	MGA-610*610-10/22	610 x 610 x 110	H14	17.5	603/60	5.3	0.04
15003404	Megalar	MGA-762*610-10/22	762 x 610 x 110	H14	21.9	753/60	6.5	0.05
15003405	Megalar	MGA-914*610-10/22	914 x 610 x 110	H14	26.3	903/60	7.7	0.06
15003406	Megalar	MGA-1219*610-10/22	1219 x 610 x 110	H14	35.2	1205/59	10.0	0.08
15003407	Megalar	MGA-1524*610-10/22	1524 x 610 x 110	H14	44	1506/59	12.4	0.10
15003408	Megalar	MGA-914*762-10/22	914 x 762 x 110	H14	33	1128/59	9.4	0.08
15003409	Megalar	MGA-1219*762-10/22	1219 x 762 x 110	H14	44.2	1505/59	12.4	0.10
15003410	Megalar	MGA-1524*762-10/22	1524 x 762 x 110	H14	55.2	1881/59	15.4	0.13
15003411	Megalar	MGA-914*914-10/22	914 x 914 x 110	H14	39.7	1353/59	11.2	0.09
15003601	Megalar	MGGS-305*305-10/22	305 x 305 x 110	U15	4.6	151/83	1.7	0.01
15003602	Megalar	MGGS-305*610-10/22	305 x 610 x 110	U15	9.3	301/81	2.9	0.02
15003603	Megalar	MGGS-610*610-10/22	610 x 610 x 110	U15	18.8	603/81	5.3	0.04
15003604	Megalar	MGGS-762*610-10/22	762 x 610 x 110	U15	23.5	753/80	6.5	0.05
15003605	Megalar	MGGS-914*610-10/22	914 x 610 x 110	U15	28.2	903/80	7.7	0.06
15003606	Megalar	MGGS-1219*610-10/22	1219 x 610 x110	U15	37.8	1205/80	10.0	0.08
15003607	Megalar	MGGS-1524*610-10/22	1524 x 610 x 110	U15	47.2	1506/80	12.4	0.10
15003608	Megalar	MGGS-914*762-10/22	914 x 762 x 110	U15	35.4	1128/80	9.4	0.08
15003609	Megalar	MGGS-1219*762-10/22	1219 x 762 x 110	U15	47.4	1505/80	12.4	0.10
15003610	Megalar	MGGS-1524*762-10/22	1524 x 762 x 110	U15	59.2	1881/80	15.4	0.13
15003611	Megalar	MGGS-914*914-10/22	914 x 914 x 110	U15	42.6	1353/80	11.2	0.09

Other dimension faceguards and gasket arrangement are available on request.
Also available in U17.

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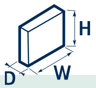

Ed. 2006/07

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MEGALAR MGA / MGGS / MGSGS

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15003801	Megalar	MGSGS-305*305-10/22	305 x 305 x 110	U16	4.9	151/99	1.7	0.01
15003802	Megalar	MGSGS-305*610-10/22	305 x 610 x 110	U16	10	301/96	2.9	0.02
15003803	Megalar	MGSGS-610*610-10/22	610 x 610 x 110	U16	20.1	603/96	5.3	0.04
15003804	Megalar	MGSGS-762*610-10/22	762 x 610 x 110	U16	25.1	753/95	6.5	0.05
15003805	Megalar	MGSGS-914*610-10/22	914 x 610 x 110	U16	30.1	903/95	7.7	0.06
15003806	Megalar	MGSGS-1219*610-10/22	1219 x 610 x 110	U16	40.3	1205/95	10.0	0.08
15003807	Megalar	MGSGS-1524*610-10/22	1524 x 610 x 110	U16	50.4	1506/95	12.4	0.10
15003808	Megalar	MGSGS-914*762-10/22	914 x 762 x 110	U16	37.8	1128/95	9.4	0.08
15003809	Megalar	MGSGS-1219*762-10/22	1219 x 762 x 110	U16	50.6	1505/95	12.4	0.10
15003810	Megalar	MGSGS-1524*762-10/22	1524 x 762 x 110	U16	63.3	1881/95	15.4	0.13
15003811	Megalar	MGSGS-914*914-10/22	914 x 914 x 110	U16	45.5	1353/95	11.2	0.09

Other dimension faceguards and gasket arrangement are available on request.
Also available in U17.

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ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested accordingly to EN1822
- Shipped with test certificate
- Air distribution uniformity : +/- 10%

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MIDILAM MDL(A) / MDLA / MDLGS / MDLSGS

Application: Final or return filtration for clean rooms with turbulent or laminar flow.
Type: HEPA/ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Gasket: Polyurethane, endless at outlet side
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expanded metal, white (RAL 9016) at inlet side.
Laminator: On outlet side.

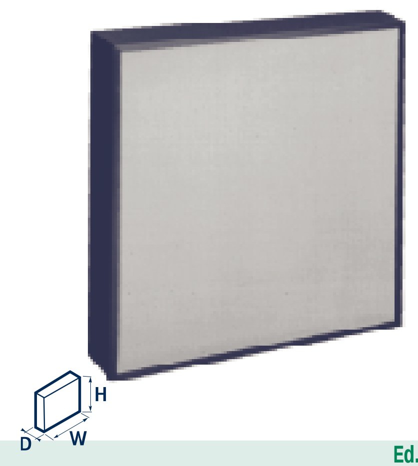
EN1822 efficiency: H13/H14/U15/U16.
MPPS efficiency : H13: ≥ 99.95%, H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H13: ≥ 99.99%, H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%
Recommended final pressure drop : 500 Pa.
Temperature : 70 °C maximum in continuous service.
Mounting system : SM20 mechanical clamping structure, SOFDISTRI housing.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15000001	Midilam	MDL(A)-305*305-01/20	305 x 305 x 66	H13	2.4	151/135	1.0	0.01
15000002	Midilam	MDL(A)-305*610-01/20	305 x 610 x 66	H13	4.8	301/131	2.0	0.01
15000003	Midilam	MDL(A)-610*610-01/20	610 x 610 x 66	H13	9.7	603/131	4.0	0.02
15000004	Midilam	MDL(A)-762*610-01/20	762 x 610 x 66	H13	12.2	753/130	5.0	0.03
15000005	Midilam	MDL(A)-914*610-01/20	914 x 610 x 66	H13	14.6	903/130	6.0	0.04
15000006	Midilam	MDL(A)-1219*610-01/20	1219 x 610 x 66	H13	19.5	1205/130	8.0	0.05
15000007	Midilam	MDL(A)-1524*610-01/20	1524 x 610 x 66	H13	24.5	1506/130	10.0	0.06
15000008	Midilam	MDL(A)-914*762-01/20	914 x 762 x 66	H13	18.4	1128/129	7.5	0.05
15000009	Midilam	MDL(A)-1219*762-01/20	1219 x 762 x 66	H13	24.5	1505/129	10.0	0.06
15000010	Midilam	MDL(A)-1524*762-01/20	1524 x 762 x 66	H13	30.7	1881/129	12.5	0.08
15000011	Midilam	MDL(A)-914*914-01/20	914 x 914 x 66	H13	22.1	1353/129	9.0	0.06
15000201	Midilam	MDLA-305*305-01/20	305 x 305 x 66	H14	2.4	151/161	1.0	0.01
15000202	Midilam	MDLA-305*610-01/20	305 x 610 x 66	H14	4.8	301/156	2.0	0.01
15000203	Midilam	MDLA-610*610-01/20	610 x 610 x 66	H14	9.7	603/156	4.0	0.02
15000204	Midilam	MDLA-762*610-01/20	762 x 610 x 66	H14	12.2	753/155	5.0	0.03
15000205	Midilam	MDLA-914*610-01/20	914 x 610 x 66	H14	14.6	903/155	6.0	0.04
15000206	Midilam	MDLA-1219*610-01/20	1219 x 610 x 66	H14	19.5	1205/155	8.0	0.05
15000207	Midilam	MDLA-1524*610-01/20	1524 x 610 x 66	H14	24.5	1506/154	10.0	0.06
15000208	Midilam	MDLA-914*762-01/20	914 x 762 x 66	H14	18.4	1128/154	7.5	0.05
15000209	Midilam	MDLA-1219*762-01/20	1219 x 762 x 66	H14	24.5	1505/154	10.0	0.06
15000210	Midilam	MDLA-1524*762-01/20	1524 x 762 x 66	H14	30.7	1881/154	12.5	0.08
15000211	Midilam	MDLA-914*914-01/20	914 x 914 x 66	H14	22.1	1353/153	9.0	0.06

Other dimension faceguards and gasket arrangement are available on request.

Very High Efficiency

MIDILAM MDL(A) / MDLA / MDLGS / MDLSGS



Ed. 2006/07

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ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate
- Air distribution uniformity: +/- 10%

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity $m^3/hr/Pa$	Unit weight kg	Unit volume m^3
15000401	Midilam	MDLGS -305*305-01/20	305 x 305 x 66	U15	2.7	151/166	1.0	0.01
15000402	Midilam	MDLGS -305*610-01/20	305 x 610 x 66	U15	5.6	301/162	2.0	0.01
15000403	Midilam	MDLGS -610*610-01/20	610 x 610 x 66	U15	11.3	603/161	4.0	0.02
15000404	Midilam	MDLGS -762*610-01/20	762 x 610 x 66	U15	14.2	753/160	5.0	0.03
15000405	Midilam	MDLGS -914*610-01/20	914 x 610 x 66	U15	17.1	903/160	6.0	0.04
15000406	Midilam	MDLGS -1219*610-01/20	1219 x 610 x 66	U15	22.7	1205/160	8.0	0.04
15000407	Midilam	MDLGS -1524*610-01/20	1524 x 610 x 66	U15	28.5	1506/160	10.0	0.06
15000408	Midilam	MDLGS -914*762-01/20	914 x 762 x 66	U15	21.4	1128/160	7.5	0.05
15000409	Midilam	MDLGS -1219*762-01/20	1219 x 762 x 66	U15	28.5	1505/160	10.0	0.06
15000410	Midilam	MDLGS -1524*762-01/20	1524 x 762 x 66	U15	35.7	1881/159	12.5	0.08
15000411	Midilam	MDLGS -914*914-01/20	914 x 914 x 66	U15	25.8	1353/159	9.0	0.06
15000601	Midilam	MDLSGS -305*305-01/20	305 x 305 x 66	U16	3	151/177	1.0	0.01
15000602	Midilam	MDLSGS -305*610-01/20	305 x 610 x 66	U16	6.1	301/172	2.0	0.01
15000603	Midilam	MDLSGS -610*610-01/20	610 x 610 x 66	U16	12.3	603/171	4.0	0.02
15000604	Midilam	MDLSGS -762*610-01/20	762 x 610 x 66	U16	15.4	753/171	5.0	0.03
15000605	Midilam	MDLSGS -914*610-01/20	914 x 610 x 66	U16	18.6	903/170	6.0	0.04
15000606	Midilam	MDLSGS -1219*610-01/20	1219 x 610 x 66	U16	24.7	1205/171	8.0	0.06
15000607	Midilam	MDLSGS -1524*610-01/20	1524 x 610 x 66	U16	31	1506/170	10.0	0.06
15000608	Midilam	MDLSGS -914*762-01/20	914 x 762 x 66	U16	23.3	1128/169	7.5	0.05
15000609	Midilam	MDLSGS -1219*762-01/20	1219 x 762 x 66	U16	31	1505/170	10.0	0.06
15000610	Midilam	MDLSGS -1524*762-01/20	1524 x 762 x 66	U16	38.8	1881/169	12.5	0.08
15000611	Midilam	MDLSGS -914*914-01/20	914 x 914 x 66	U16	28	1353/169	9.0	0.06

Other dimension faceguards and gasket arrangement are available on request.

Very High Efficiency

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ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

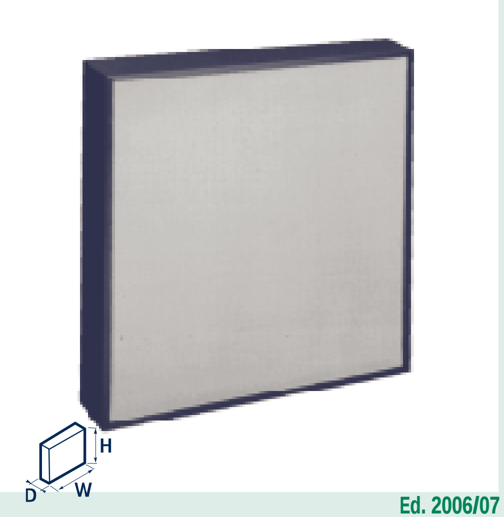
MAXILAM MXLA/MXLGS/MXLSGS

Application: Final or return filtration for clean rooms with turbulent laminar flow.
Type: HEPA/ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Gasket: Polyurethane, endless at outlet side
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expanded metal, white (RAL 9016) at inlet sides
Laminator: On outlet side.

EN1822 efficiency: H14/U15/U16.
MPPS efficiency : H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop : 500 Pa
Temperature : 70°C maximum in continuous service.
Mounting system : SM20 mechanical clamping structure, SOFDISTRI housing.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15000801	Maxilam	MXLA-305*305-01/20	305 x 305 x 90	H14	3.2	151/114	1.4	0.01
15000802	Maxilam	MXLA-305*610-01/20	305 x 610 x 90	H14	6.6	301/111	2.8	0.02
15000803	Maxilam	MXLA-610*610-01/20	610 x 610 x 90	H14	13.2	603/110	5.6	0.03
15000804	Maxilam	MXLA-762*610-01/20	762 x 610 x 90	H14	16.5	753/110	7.0	0.04
15000805	Maxilam	MXLA-914*610-01/20	914 x 610 x 90	H14	19.9	903/110	8.4	0.05
15000806	Maxilam	MXLA-1219*610-01/20	1219 x 610 x 90	H14	26.6	1205/110	11.2	0.07
15000807	Maxilam	MXLA-1524*610-01/20	1524 x 610 x 90	H14	33.2	1506/110	14.0	0.08
15000808	Maxilam	MXLA-914*762-01/20	914 x 762 x 90	H14	24.9	1128/110	10.5	0.06
15000809	Maxilam	MXLA-1219*762-01/20	1219 x 762 x 90	H14	33.4	1505/109	14.0	0.08
15000810	Maxilam	MXLA-1524*762-01/20	1524 x 762 x 90	H14	41.7	1881/109	17.5	0.10
15000811	Maxilam	MXLA-914*914-01/20	914 x 914 x 90	H14	30	1353/109	12.6	0.08
15001001	Maxilam	MXLGS-305*305-01/20	305 x 305 x 90	U15	3.7	151/135	1.4	0.01
15001002	Maxilam	MXLGS-305*610-01/20	305 x 610 x 90	U15	7.5	301/131	2.8	0.02
15001003	Maxilam	MXLGS-610*610-01/20	610 x 610 x 90	U15	15.2	603/131	5.6	0.03
15001004	Maxilam	MXLGS-762*610-01/20	762 x 610 x 90	U15	19	753/131	7.0	0.04
15001005	Maxilam	MXLGS-914*610-01/20	914 x 610 x 90	U15	22.8	903/130	8.4	0.05
15001006	Maxilam	MXLGS-1219*610-01/20	1219 x 610 x 90	U15	30.5	1205/130	11.2	0.07
15001007	Maxilam	MXLGS-1524*610-01/20	1524 x 610 x 90	U15	38.1	1506/130	14.0	0.08
15001008	Maxilam	MXLGS-914*762-01/20	914 x 762 x 90	U15	28.6	1128/130	10.5	0.06
15001009	Maxilam	MXLGS-1219*762-01/20	1219 x 762 x 90	U15	38.2	1505/129	14.0	0.08
15001010	Maxilam	MXLGS-1524*762-01/20	1524 x 762 x 90	U15	47.8	1881/129	17.5	0.10
15001011	Maxilam	MXLGS-914*914-01/20	914 x 914 x 90	U15	34.4	1353/129	12.6	0.08

Other dimension faceguards and gasket arrangement are available on request.



Ed. 2006/07

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ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MAXILAM MXLA/MXLGS/MXLSGS

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15001201	Maxilam	MXLSGS-305*305-01/20	305 x 305 x 90	U16	3.9	151/156	1.4	0.01
15001202	Maxilam	MXLSGS-305*610-01/20	305 x 610 x 90	U16	8	301/153	2.8	0.02
15001203	Maxilam	MXLSGS-610*610-01/20	610 x 610 x 90	U16	16.2	603/151	5.6	0.03
15001204	Maxilam	MXLSGS-762*610-01/20	762 x 610 x 90	U16	20.3	753/150	7.0	0.04
15001205	Maxilam	MXLSGS-914*610-01/20	914 x 610 x 90	U16	24.3	903/150	8.4	0.05
15001206	Maxilam	MXLSGS-1219*610-01/20	1219 x 610 x 90	U16	32.4	1205/150	11.2	0.07
15001207	Maxilam	MXLSGS-1524*610-01/20	1524 x 610 x 90	U16	40.6	1506/150	14	0.08
15001208	Maxilam	MXLSGS-914*762-01/20	914 x 762 x 90	U16	30.5	1128/150	5	0.06
15001209	Maxilam	MXLSGS-1219*762-01/20	1219 x 762 x 90	U16	40.7	1505/150	14.0	0.08
15001210	Maxilam	MXLSGS-1524*762-01/20	1524 x 762 x 90	U16	51	1881/149	17.5	0.10
15001211	Maxilam	MXLSGS-914*914-01/20	914 x 914 x 90	U16	36.7	1353/149	12.6	0.08

Other dimension faceguards and gasket arrangement are available on request.

Very High Efficiency

Ed. 2006/07

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefilters (F7/F8) or higher if necessary.*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MEGALAM MGLA / MGLGS / MGLSGS

Application: Final or return filtration for clean rooms with turbulent flow.
Type: ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Gasket: Polyurethane, endless at outlet side
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expanded metal, white RAL 9016 at inlet side
Laminator: On outlet side.

EN 1822 efficiency: H14/U15/U16.
MPPS efficiency: H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.9999%.
Recommended final pressure drop: 500 Pa.
Temperature: 70°C maximum in continuous service.
Mounting system : SM20 mechanical clamping structure, SOFDISTRI housing.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15001401	Megalam	MGLA-305*305-01/20	305 x 305 x 110	H14	4.2	151/77	1.7	0.01
15001402	Megalam	MGLA-305*610-01/20	305 x 610 x 110	H14	8.7	301/75	2.9	0.02
15001403	Megalam	MGLA-610*610-01/20	610 x 610 x 110	H14	17.5	603/75	5.3	0.04
15001404	Megalam	MGLA-762*610-01/20	762 x 610 x 110	H14	21.9	753/75	6.5	0.05
15001405	Megalam	MGLA-914*610-01/20	914 x 610 x 110	H14	26.3	903/75	7.7	0.06
15001406	Megalam	MGLA-1219*610-01/20	1219 x 610 x 110	H14	35.2	1205/74	10.0	0.08
15001407	Megalam	MGLA-1524*610-01/20	1524 x 610 x 110	H14	44.0	1506/74	12.4	0.10
15001408	Megalam	MGLA-914*762-01/20	914 x 762 x 110	H14	33.0	1128/74	9.4	0.08
15001409	Megalam	MGLA-1219*762-01/20	1219 x 762 x 110	H14	44.2	1505/74	12.4	0.10
15001410	Megalam	MGLA-1524*762-01/20	1524 x 762 x 110	H14	55.2	1881/74	15.4	0.13
15001411	Megalam	MGLA-914*914-01/20	914 x 914 x 110	H14	39.7	1353/74	11.2	0.09
15001601	Megalam	MGLGS-305*305-01/20	305 x 305 x 110	U15	4.6	151/98	1.7	0.01
15001602	Megalam	MGLGS-305*610-01/20	305 x 610 x 110	U15	9.3	301/95	2.9	0.02
15001603	Megalam	MGLGS-610*610-01/20	610 x 610 x 110	U15	18.8	603/95	5.3	0.04
15001604	Megalam	MGLGS-762*610-01/20	762 x 610 x 110	U15	23.5	753/95	6.5	0.05
15001605	Megalam	MGLGS-914*610-01/20	914 x 610 x 110	U15	28.2	903/95	7.7	0.06
15001606	Megalam	MGLGS-1219*610-01/20	1219 x 610 x 110	U15	37.8	1205/94	10.0	0.08
15001607	Megalam	MGLGS-1524*610-01/20	1524 x 610 x 110	U15	47.2	1506/94	12.4	0.10
15001608	Megalam	MGLGS-914*762-01/20	914 x 762 x 110	U15	35.4	1128/94	9.4	0.08
15001609	Megalam	MGLGS-1219*762-01/20	1219 x 762 x 110	U15	47.4	1505/94	12.4	0.10
15001610	Megalam	MGLGS-1524*762-01/20	1524 x 762 x 110	U15	59.2	1881/94	15.4	0.13
15001611	Megalam	MGLGS-914*914-01/20	914 x 914 x 110	U15	42.6	1353/94	11.2	0.09

Other dimension faceguards and gasket arrangement are available on request.

MEGALAM MGLA / MGLGS / MGLSGS

Ed. 2006/07

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15001801	Megalam	MGLSGS-305*305-01/20	305 x 305 x 110	U16	4.9	151/114	1.7	0.01
15001802	Megalam	MGLSGS-305*610-01/20	305 x 610 x 110	U16	12	301/111	2.9	0.02
15001803	Megalam	MGLSGS-610*610-01/20	610 x 610 x 110	U16	20.1	603/111	5.3	0.04
15001804	Megalam	MGLSGS-762*610-01/20	762 x 610 x 110	U16	25.1	753/111	6.5	0.05
15001805	Megalam	MGLSGS-914*610-01/20	914 x 610 x 110	U16	30.1	903/110	7.7	0.06
15001806	Megalam	MGLSGS-1219*610-01/20	1219 x 610 x 110	U16	40.3	1205/110	10.0	0.08
15001807	Megalam	MGLSGS-1524*610-01/20	1524 x 610 x 110	U16	50.4	1506/110	12.4	0.10
15001808	Megalam	MGLSGS-914*762-01/20	914 x 762 x 110	U16	37.8	1128/110	9.4	0.08
15001809	Megalam	MGLSGS-1219*762-01/20	1219 x 762 x 110	U16	50.6	1505/110	12.4	0.10
15001810	Megalam	MGLSGS-1524*762-01/20	1524 x 762 x 110	U16	63.3	1881/110	15.4	0.13
15001811	Megalam	MGLSGS-914*914-01/20	914 x 914 x 110	U16	45.5	1353/110	11.2	0.09

Other dimension faceguards and gasket arrangement are available on request.

ADVANTAGES

- Less pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

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MEGALAM K and LS – Filters for fluid seal ceilings

Ed 2006/07

What is the right solution?

A “straight-blade” (K) is recommended in preference to an “offset blade” for the following reasons :

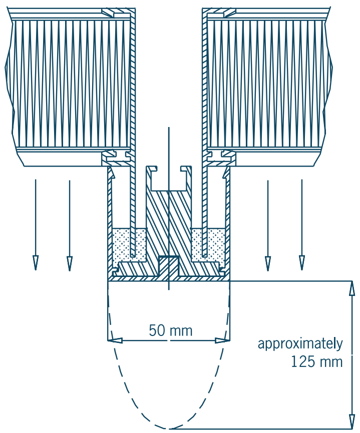
Reduced Dead Zone (50 mm compared to 83 mm)
Advantages:

- Reduced turbulence zone (125 mm compared to approximately 250 mm) therefore reducing the risk of contamination caused by induction.
- Re-establising laminar flow closer to the ceiling, and therefore providing improved laminar coverage.

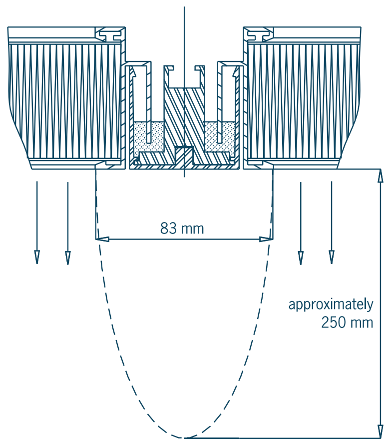
Greater Effective Discharge Area (increasing by 6 %)
Advantages:

- Better diffusion of the air flow
- For a given air flow, the flow per filter is handled by a larger filter surface therefore reducing pressure drop and saving energy.

Solution K (recommended)



Solution “offset blade”



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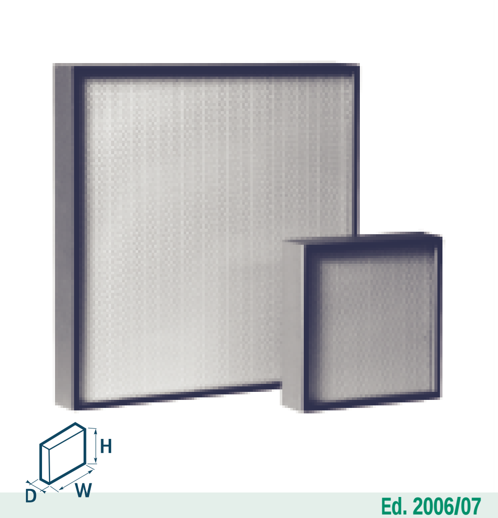
Very High Efficiency



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ADVANTAGES

- Low pressure drop
- Protect with 2 faceguard
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

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As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MIDILAR K-38 MD(A) / MDA / MDGS / MDSGS

Application: Final or return filtration for clean rooms with turbulent flow.
Type: ULPA filtering panel with seal for mechanical clamping mounting systems.
Frame: Extruded and anodosed aluminium.
Media : Glass fibre paper.
Separator: Hot melt beads.
Sealant: Polyurethane.
Faceguard: Expanded metal, powder coated with RAL9016 on both side.
EN 1822 efficiency: H13/H14/U15/U16

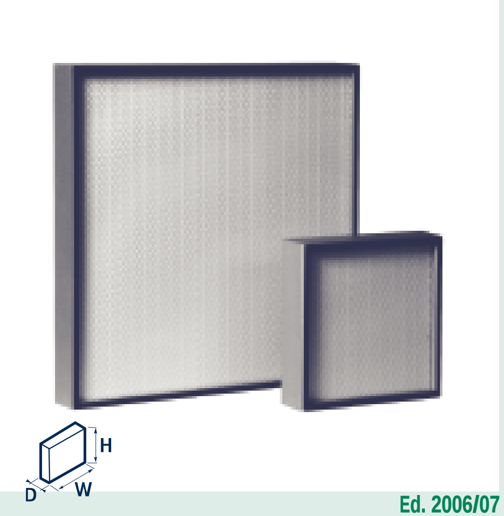
MPPS efficiency: H13: ≥ 99.95%, H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H13: ≥ 99.99%, H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop: 500 Pa.
Temperature: 70˚C maximum in continuous service.
Mounting system: SM10 or SM20 mechanical clamping structure.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15102001	Midilar	MD(A)-K38-305*305-00/22	305 x 305 x 104	H13	2.4	151/119	1.0	0.01
15102002	Midilar	MD(A)-K38-305*610-00/22	305 x 610 x 104	H13	4.8	301/116	2.0	0.01
15102003	Midilar	MD(A)-K38-610*610-00/22	610 x 610 x 104	H13	9.7	603/115	4.0	0.02
15102004	Midilar	MD(A)-K38-762*610-00/22	762 x 610 x 104	H13	12.2	753/115	5.0	0.03
15102005	Midilar	MD(A)-K38-914*610-00/22	914 x 610 x 104	H13	14.6	903/114	6.0	0.04
15102006	Midilar	MD(A)-K38-1219*610-00/22	1219 x 610 x 104	H13	19.5	1205/114	8.0	0.05
15102007	Midilar	MD(A)-K38-1524*610-00/22	1524 x 610 x 104	H13	24.5	1506/114	10.0	0.06
15102008	Midilar	MD(A)-K38-914*762-00/22	914 x 762 x 104	H13	18.4	1128/114	7.5	0.05
15102009	Midilar	MD(A)-K38-1219*762-00/22	1219 x 762 x 104	H13	24.5	1505/114	10.0	0.06
15102010	Midilar	MD(A)-K38-1524*762-00/22	1524 x 762 x 104	H13	30.7	1881/114	12.5	0.08
15102011	Midilar	MD(A)-K38-914*914-00/22	914 x 914 x 104	H13	22.1	1353/113	9.0	0.06
15102201	Midilar	MDA-K38-305*305-00/22	305 x 305 x 104	H14	2.4	151/145	1.0	0.01
15102202	Midilar	MDA-K38-305*610-00/22	305 x 610 x 104	H14	4.8	301/142	2.0	0.01
15102203	Midilar	MDA-K38-610*610-00/22	610 x 610 x 104	H14	9.7	603/141	4.0	0.02
15102204	Midilar	MDA-K38-762*610-00/22	762 x 610 x 104	H14	12.2	753/140	5.0	0.03
15102205	Midilar	MDA-K38-914*610-00/22	914 x 610 x 104	H14	14.6	903/140	6.0	0.04
15102206	Midilar	MDA-K38-1219*610-00/22	1219 x 610 x 104	H14	19.5	1205/140	8.0	0.05
15102207	Midilar	MDA-K38-1524*610-00/22	1524 x 610 x 104	H14	24.5	1506/140	10.0	0.06
15102208	Midilar	MDA-K38-914*762-00/22	914 x 762 x 104	H14	18.4	1128/139	7.5	0.05
15102209	Midilar	MDA-K38-1219*762-00/22	1219 x 762 x 104	H14	24.5	1505/139	10.0	0.06
15102210	Midilar	MDA-K38-1524*762-00/22	1524 x 762 x 104	H14	30.7	1881/139	12.5	0.08
15102211	Midilar	MDA-K38-914*914-00/22	914 x 914 x 104	H14	22.1	1353/139	9.0	0.06
15102401	Midilar	MDGS-K38-305*305-00/22	305 x 305 x 104	U15	2.7	151/145	1.0	0.01
15102402	Midilar	MDGS-K38-305*610-00/22	305 x 610 x 104	U15	5.6	301/142	2.0	0.01
15102403	Midilar	MDGS-K38-610*610-00/22	610 x 610 x 104	U15	11.3	603/141	4.0	0.02

Other dimensionss faceguards and gasket arrangment are available on request.

Continue ...

Very High Efficiency



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ADVANTAGES

- Low pressure drop
- Protect with 2 faceguard
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

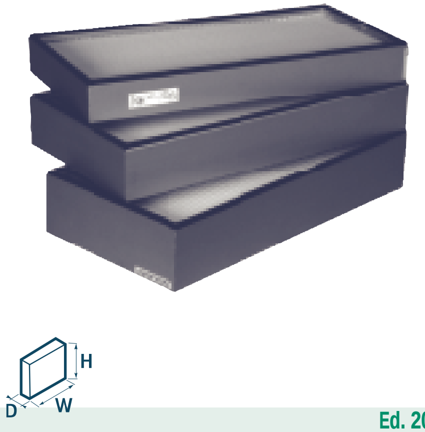
MIDILAR K38 - MD(A)/MDA/MDGS/MDSGS

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN 1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15102404	Midilar	MDSGS-K38-762*610-00/22	305 x 305 x 104	U15	14.2	753/145	1.0	0.01
15102405	Midilar	MDGS-K38-914*610-00/22	914 x 610 x 104	U15	17.1	903/145	2.0	0.01
15102406	Midilar	MDGS-K38-1219*610-00/22	1219 x 610 x 104	U15	22.7	1205/145	4.0	0.02
15102407	Midilar	MDGS-K38-1524*610-00/22	1524 x 610 x 104	U15	28.5	1506/144	5.0	0.03
15102408	Midilar	MDGS-K38-914*762-00/22	914 x 762 x 104	U15	21.4	1128/144	6.0	0.04
15102409	Midilar	MDGS-K38-1219*762-00/22	1219 x 762 x 104	U15	28.5	1505/144	8.0	0.04
15102410	Midilar	MDGS-K38-1524*762-00/22	1524 x 762 x 104	U15	35.7	1881/144	10.0	0.06
15102411	Midilar	MDGS-K38-914*914-00/22	914 x 914 x 104	U15	25.8	1353/143	7.5	0.05
15102601	Midilar	MDSGS-K38-305*305-00/22	305 x 305 x 104	U16	3.0	151/162	1.0	0.01
15102602	Midilar	MDSGS-K38-305*610-00/22	305 x 610 x 104	U16	6.1	301/157	2.0	0.01
15102603	Midilar	MDSGS-K38-610*610-00/22	610 x 610 x 104	U16	12.3	603/156	4.0	0.02
15102604	Midilar	MDSGS-K38-762*610-00/22	305 x 305 x 104	U16	15.4	753/156	5.0	0.03
15102605	Midilar	MDGS-K38-914*610-00/22	914 x 610 x 104	U16	18.6	903/155	6.0	0.04
15102606	Midilar	MDGS-K38-1219*610-00/22	1219 x 610 x 104	U16	24.7	1205/156	8.0	0.06
15102607	Midilar	MDGS-K38-1524*610-00/22	1524 x 610 x 104	U16	31.0	1506/155	10.0	0.06
15102608	Midilar	MDGS-K38-914*762-00/22	914 x 762 x 104	U16	23.3	1128/155	7.5	0.05
15102609	Midilar	MDGS-K38-1219*762-00/22	1219 x 762 x 104	U16	31.0	1505/155	10.0	0.06
15102610	Midilar	MDGS-K38-1524*762-00/22	1524 x 762 x 104	U16	38.8	1881/155	12.5	0.08
15102611	Midilar	MDGS-K38-914*914-00/22	914 x 914 x 104	U16	28.0	1353/143	7.5	0.05

Other dimension faceguards and gasket arrangement are available on request.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Very High Efficiency



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ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

☺ **Camfil hints!** To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MAXILAR K-38 MXA/MXGS/MXSGS

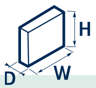
Application: Final or return filtration for clean rooms with turbulent or laminar flow.
Type: ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Media: Glass fibre paper.
Separator: Hot melt beads.
Sealant: Polyurethane.
Faceguard: Expended metal, powder coated with RAL 9016 on both sides.
EN 1822 efficiency: H14/U15/U16

MPPS efficiency: H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop: 500 Pa.
Temperature: 70°C maximum in continuous service.
Mounting system: SM20 mechanical clamping structure.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15102801	Maxilar	MXA-K38-305*305-00/22	305 x 305 x 128	H14	3.2	151/99	1.4	0.01
15102802	Maxilar	MXA-K38-305*610-00/22	305 x 610 x 128	H14	6.6	301/96	2.8	0.02
15102803	Maxilar	MXA-K38-610*610-00/22	610 x 610 x 128	H14	13.2	603/96	5.6	0.03
15102804	Maxilar	MXA-K38-762*610-00/22	762 x 610 x128	H14	16.5	753/95	7.0	0.04
15102805	Maxilar	MXA-K38-914*610-10/22	914 x 610 x128	H14	19.9	903/95	8.4	0.05
15102806	Maxilar	MXA-K38-1219*610-00/22	1219 x 610 x 128	H14	26.6	1205/95	11.2	0.07
15102807	Maxilar	MXA-K38-1524*610-00/22	1524 x 610 x 128	H14	33.2	1506/95	14.0	0.08
15102808	Maxilar	MXA-K38-914*762-00/22	914 x 762 x 128	H14	24.9	1128/95	10.5	0.06
15102809	Maxilar	MXA-K38-1219*762-00/22	1219 x 762 x 128	H14	33.4	1505/95	14.0	0.08
15102810	Maxilar	MXA-K38-1524*762-00/22	1524 x 762 x 128	H14	41.7	1881/95	17.5	0.10
15102811	Maxilar	MXA-K38-914*914-00/22	914 x 914 x 128	H14	30.0	1353/95	12.6	0.08
15103001	Maxilar	MXGS-K38-305*305-00/22	305 x 305 x 128	U15	3.70	151/119	1.4	0.01
15103002	Maxilar	MXGS-K38-305*610-00/22	305 x 610 x 128	U15	7.50	301/116	2.8	0.02
15103003	Maxilar	MXGS-K38-610*610-00/22	610 x 610 x 128	U15	15.2	603/115	5.6	0.03
15103004	Maxilar	MXGS-K38-762*610-00/22	762 x 610 x 128	U15	19.0	753/115	7.0	0.04
15103005	Maxilar	MXGS-K38-914*610-00/22	914 x 610 x 128	U15	22.8	903/115	8.4	0.05
15103006	Maxilar	MXGS-K38-1219*610-00/22	1219 x 610 x 128	U15	30.5	1205/115	11.2	0.07
15103007	Maxilar	MXGS-K38-1524*610-00/22	1524 x 610 x 128	U15	38.1	1506/115	14.0	0.08
15103008	Maxilar	MXGS-K38-914*762-00/22	914 x 762 x 128	U15	28.6	1128/115	10.5	0.06
15103009	Maxilar	MXGS-K38-1219*762-00/22	1219 x 762 x 128	U15	38.2	1505/114	14.0	0.08
15103010	Maxilar	MXGS-K38-1524*762-00/22	1524 x 762 x 128	U15	47.8	1881/114	17.5	0.10
15103011	Maxilar	MXGS-K38-914*914-00/22	914 x 914 x 128	U15	34.4	1353/114	12.6	0.08
15103201	Maxilar	MXSGS-K38-305*305-00/22	305 x 305 x 128	U16	3.9	151/141	1.4	0.01
15103202	Maxilar	MXSGS-K38-305*610-00/22	305 x 610 x 128	U16	8.0	301/137	2.8	0.02

Other dimension faceguards and gasket arrangement are available on request.

Very High Efficiency



Ed. 2006/07

FM APPROVED

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

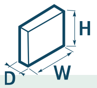
MAXILAR K-38 MXA/MXGS/MXSGS

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15103203	Maxilar	MXSGS-K38-610*610-00/22	610 x 610 x 128	U16	16.2	603/136	5.6	0.03
15103204	Maxilar	MXSGS-K38-762*610-00/22	762 x 610 x 128	U16	20.3	753/136	7.0	0.04
15103205	Maxilar	MXSGS-K38-914*610-00/22	914 x 610 x 128	U16	24.3	903/136	8.4	0.05
15103206	Maxilar	MXSGS-K38-1219*610-00/22	1219 x 610 x 128	U16	32.4	1205/136	11.2	0.07
15103207	Maxilar	MXSGS-K38-1524*610-00/22	1524 x 610 x 128	U16	40.6	1506/135	14.0	0.08
15103208	Maxilar	MXSGS-K38-914*762-00/22	914 x 762 x 128	U16	30.5	1128/135	10.5	0.06
15103209	Maxilar	MXSGS-K38-1219*762-00/22	1219 x 762 x 128	U16	40.7	1505/135	14.0	0.08
15103210	Maxilar	MXSGS-K38-1524*762-00/22	1524 x 762 x 128	U16	51.0	1881/135	17.5	0.10
15103211	Maxilar	MXSGS-K38-914*914-00/22	914 x 914 x 128	U16	36.7	1353/135	12.6	0.08

Other dimension faceguards and gasket arrangement are available on request.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Very High Efficiency



Ed. 2006/07

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

☺ **Camfil hints!** To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefilters (F7/F8) or higher if necessary.

MEGALAR K38 - MGA/MGGS/MGSGS

Application: Final or return filtration for clean rooms with turbulent or laminar flow.
Type: ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expended metal, powder coated with RAL 9016 on the sides.
EN 1822 efficiency: H14/U15/U16

MPPS efficiency: H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop: 500 Pa.
Temperature: 70° C maximum in continuous service.
Mounting system : SM20 mechanical clamping structure.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity $m^3/hr/Pa$	Unit weight kg	Unit volume m^3
15103401	Megalar	MGA-K38-305*305-00/22	305 x 305 x 148	H14	4.2	151/62	1.7	0.01
15103402	Megalar	MGA-K38-305*610-00/22	305 x 610 x 148	H14	8.7	301/60	2.9	0.02
15103403	Megalar	MGA-K38-610*610-00/22	610 x 610 x 148	H14	17.5	603/60	5.3	0.04
15103404	Megalar	MGA-K38-762*610-00/22	762 x 610 x 148	H14	21.9	753/60	6.5	0.05
15103405	Megalar	MGA-K38-914*610-00/22	914 x 610 x 148	H14	26.3	903/60	7.7	0.06
15103406	Megalar	MGA-K38-1219*610-00/22	1219 x 610 x 148	H14	35.2	1205/59	10.0	0.08
15103407	Megalar	MGA-K38-1524*610-00/22	1524 x 610 x 148	H14	44	1506/59	12.4	0.10
15103408	Megalar	MGA-K38-914*762-00/22	914 x 762 x 148	H14	33	1128/59	9.4	0.08
15103409	Megalar	MGA-K38-1219*762-00/22	1219 x 762 x 148	H14	44.2	1505/59	12.4	0.10
15103410	Megalar	MGA-K38-1524*762-00/22	1524 x 762 x 148	H14	55.2	1881/59	15.4	0.13
15103411	Megalar	MGA-K38-914*914-00/22	914 x 914 x 148	H14	39.7	1353/59	11.2	0.09
15103601	Megalar	MGGS-K38-305*305-00/22	305 x 305 x 148	U15	4.6	151/83	1.7	0.01
15103602	Megalar	MGGS-K38-305*610-00/22	305 x 610 x 148	U15	9.3	301/81	2.9	0.02
15103603	Megalar	MGGS-K38-610*610-00/22	610 x 610 x 148	U15	18.8	603/81	5.3	0.04
15103604	Megalar	MGGS-K38-762*610-00/22	762 x 610 x 148	U15	23.5	753/80	6.5	0.05
15103605	Megalar	MGGS-K38-914*610-00/22	914 x 610 x 148	U15	28.2	903/80	7.7	0.06
15103606	Megalar	MGGS-K38-1219*610-00/22	1219 x 610 x148	U15	37.8	1205/80	10.0	0.08
15103607	Megalar	MGGS-K38-1524*610-00/22	1524 x 610 x 148	U15	47.2	1506/80	12.4	0.10
15103608	Megalar	MGGS-K38-914*762-00/22	914 x 762 x 148	U15	35.4	1128/80	9.4	0.08
15103609	Megalar	MGGS-K38-1219*762-00/22	1219 x 762 x 148	U15	47.4	1505/80	12.4	0.10
15103610	Megalar	MGGS-K38-1524*762-00/22	1524 x 762 x 148	U15	59.2	1881/80	15.4	0.13
15103611	Megalar	MGGS-K38-914*914-00/22	914 x 914 x 148	U15	42.6	1353/80	11.2	0.09

Other dimension faceguards and gasket arrangement are available on request.
Also available in U17.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

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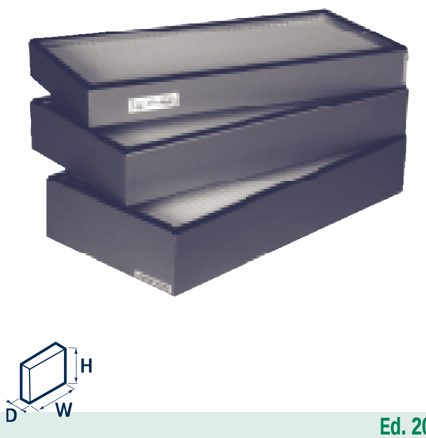

Ed. 2006/07

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefilters (F7/F8) or higher if necessary.*

MEGALAR K38 - MGA / MGGS / MGSGS

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15103801	Megalar	MGSGS-K38-305*305-00/22	305 x 305 x 148	U16	4.9	151/99	1.7	0.01
15103802	Megalar	MGSGS-K38-305*610-00/22	305 x 610 x 148	U16	10	301/96	2.9	0.02
15103803	Megalar	MGSGS-K38-610*610-00/22	610 x 610 x 148	U16	20.1	603/96	5.3	0.04
15103804	Megalar	MGSGS-K38-762*610-00/22	762 x 610 x 148	U16	25.1	753/95	6.5	0.05
15103805	Megalar	MGSGS-K38-914*610-00/22	914 x 610 x 148	U16	30.1	903/95	7.7	0.06
15103806	Megalar	MGSGS-K38-1219*610-00/22	1219 x 610 x 148	U16	40.3	1205/95	10.0	0.08
15103807	Megalar	MGSGS-K38-1524*610-00/22	1524 x 610 x 148	U16	50.4	1506/95	12.4	0.10
15103808	Megalar	MGSGS-K38-914*762-00/22	914 x 762 x 148	U16	37.8	1128/95	9.4	0.08
15103809	Megalar	MGSGS-K38-1219*762-00/22	1219 x 762 x 148	U16	50.6	1505/95	12.4	0.10
15103810	Megalar	MGSGS-K38-1524*762-00/22	1524 x 762 x 148	U16	63.3	1881/95	15.4	0.13
15103811	Megalar	MGSGS-K38-914*914-00/22	914 x 914 x 148	U16	45.5	1353/95	11.2	0.09

Other dimension faceguards and gasket arrangement are available on request.
Also available in U17

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MIDILAM K38 - MDL(A) / MDLA / MDLGS / MDLSGS

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ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Application: Final or return filtration for clean rooms with turbulent or laminar flow
Type: ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expanded metal, white RAL 9016 at inlet side
Laminator: On outlet side.

EN 1822 efficiency: H13/H14/U15/U16.
MPPS efficiency: H13: ≥ 99.95%, H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%
DOP efficiency: H13: ≥ 99.99%, H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop: 500 Pa.
Temperature: 70°C maximum in continuous service.
Mounting system : SM20 mechanical clamping structure.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15100001	Midilam	MDL(A)-K38-305*305-00/20	305 x 305 x 104	H13	2.4	151/135	1.0	0.01
15100002	Midilam	MDL(A)-K38-305*610-00/20	305 x 610 x 104	H13	4.8	301/131	2.0	0.01
15100003	Midilam	MDL(A)-K38-610*610-00/20	610 x 610 x 104	H13	9.7	603/131	4.0	0.02
15100004	Midilam	MDL(A)-K38-762*610-00/20	762 x 610 x 104	H13	12.2	753/130	5.0	0.03
15100005	Midilam	MDL(A)-K38-914*610-00/20	914 x 610 x 104	H13	14.6	903/130	6.0	0.04
15100006	Midilam	MDL(A)-K38-1219*610-00/20	1219 x 610 x 104	H13	19.5	1205/130	8.0	0.05
15100007	Midilam	MDL(A)-K38-1524*610-00/20	1524 x 610 x 104	H13	24.5	1506/130	10.0	0.06
15100008	Midilam	MDL(A)-K38-914*762-00/20	914 x 762 x 104	H13	18.4	1128/129	7.5	0.05
15100009	Midilam	MDL(A)-K38-1219*762-00/20	1219 x 762 x 104	H13	24.5	1505/129	10.0	0.06
15100010	Midilam	MDL(A)-K38-1524*762-00/20	1524 x 762 x 104	H13	30.7	1881/129	12.5	0.08
15100011	Midilam	MDL(A)-K38-914*914-00/20	914 x 914 x 104	H13	22.1	1353/129	9.0	0.06
15100201	Midilam	MDLA-K38-305*305-00/20	305 x 305 x 104	H14	2.4	151/161	1.0	0.01
15100202	Midilam	MDLA-K38-305*610-00/20	305 x 610 x 104	H14	4.8	301/156	2.0	0.01
15100203	Midilam	MDLA-K38-610*610-00/20	610 x 610 x 104	H14	9.7	603/156	4.0	0.02
15100204	Midilam	MDLA-K38-762*610-00/20	762 x 610 x 104	H14	12.2	753/155	5.0	0.03
15100205	Midilam	MDLA-K38-914*610-00/20	914 x 610 x 104	H14	14.6	903/155	6.0	0.04
15100206	Midilam	MDLA-K38-1219*610-00/20	1219 x 610 x 104	H14	19.5	1205/155	8.0	0.05
15100207	Midilam	MDLA-K38-1524*610-00/20	1524 x 610 x 104	H14	24.5	1506/154	10.0	0.06
15100208	Midilam	MDLA-K38-914*762-00/20	914 x 762 x 104	H14	18.4	1128/154	7.5	0.05
15100209	Midilam	MDLA-K38-1219*762-00/20	1219 x 762 x 104	H14	24.5	1505/154	10.0	0.06
15100210	Midilam	MDLA-K38-1524*762-00/20	1524 x 762 x 104	H14	30.7	1881/154	12.5	0.08
15100211	Midilam	MDLA-K38-914*914-00/20	914 x 914 x 104	H14	22.1	1353/153	9.0	0.06

Other dimension faceguards and gasket arrangement are available on request.

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Very High Efficiency

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ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MIDILAM K38 - MDL(A)/MDLA/MDLGS/MDLSGS

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15100401	Midilam	MDLGS-K38-305*305-00/20	305 x 305 x 104	U15	2.7	151/166	1.0	0.01
15100402	Midilam	MDLGS-K38-305*610-00/20	305 x 610 x 104	U15	5.6	301/162	2.0	0.01
15100403	Midilam	MDLGS-K38-610*610-00/20	610 x 610 x 104	U15	11.3	603/161	4.0	0.02
15100404	Midilam	MDLGS-K38-762*610-00/20	762 x 610 x 104	U15	14.2	753/160	5.0	0.03
15100405	Midilam	MDLGS-K38-914*610-00/20	914 x 610 x 104	U15	17.1	903/160	6.0	0.04
15100406	Midilam	MDLGS-K38-1219*610-00/20	1219 x 610 x 104	U15	22.7	1205/160	8.0	0.04
15100407	Midilam	MDLGS-K38-1524*610-00/20	1524 x 610 x 104	U15	28.5	1506/160	10.0	0.06
15100408	Midilam	MDLGS-K38-914*762-00/20	914 x 762 x 104	U15	21.4	1128/160	7.5	0.05
15100409	Midilam	MDLGS-K38-1219*762-00/20	1219 x 762 x 104	U15	28.5	1505/160	10.0	0.06
15100410	Midilam	MDLGS-K38-1524*762-00/20	1524 x 762 x 104	U15	35.7	1881/159	12.5	0.08
15100411	Midilam	MDLGS-K38-914*914-00/20	914 x 914 x 104	U15	25.8	1353/159	9.0	0.06
15100601	Midilam	MDLSGS-K38-305*305-00/20	305 x 305 x 104	U16	3	151/177	1.0	0.01
15100602	Midilam	MDLSGS-K38-305*610-00/20	305 x 610 x 104	U16	6.1	301/172	2.0	0.01
15100603	Midilam	MDLSGS-K38-610*610-00/20	610 x 610 x 104	U16	12.3	603/171	4.0	0.02
15100604	Midilam	MDLSGS-K38-762*610-00/20	762 x 610 x 104	U16	15.4	753/171	5.0	0.03
15100605	Midilam	MDLSGS-K38-914*610-00/20	914 x 610 x 104	U16	18.6	903/170	6.0	0.04
15100606	Midilam	MDLSGS-K38-1219*610-00/20	1219 x 610 x 104	U16	24.7	1205/171	8.0	0.06
15100607	Midilam	MDLSGS-K38-1524*610-00/20	1524 x 610 x 104	U16	31	1506/170	10.0	0.06
15100608	Midilam	MDLSGS-K38-914*762-00/20	914 x 762 x 104	U16	23.3	1128/169	7.5	0.05
15100609	Midilam	MDLSGS-K38-1219*762-00/20	1219 x 762 x 104	U16	31	1505/170	10.0	0.06
15100610	Midilam	MDLSGS-K38-1524*762-00/20	1524 x 762 x 104	U16	38.8	1881/169	12.5	0.08
15100611	Midilam	MDLSGS-K38-914*914-00/20	914 x 914 x 104	U16	28	1353/169	9.0	0.06

Other dimension faceguards and gasket arrangement are available on request.

Very High Efficiency

Ed. 2006/07

FM
APPROVED

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

☺ **Camfil hints!** To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MAXILAM K38 - MXLA/MXLGS/MXLSGS

Application: Final or return filtration for clean rooms with turbulent or laminar flow
Type: ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expanded metal, white RAL 9016 at inlet side
Laminator: On outlet side.

EN 1822 efficiency: H14/U15/U16.
MPPS efficiency: H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop: 500 Pa.
Temperature: 70°C maximum in continuous service.
Mounting system : SM12 mechanical clamping structure.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15100801	Maxilam	MXLA-K38-305*305-00/20	305 x 305 x 128	H14	3.2	151/114	1.4	0.01
15100802	Maxilam	MXLA-K38-305*610-00/20	305 x 610 x128	H14	6.6	301/111	2.8	0.02
15100803	Maxilam	MXLA-K38-610*610-00/20	610 x 610 x 128	H14	13.2	603/110	5.6	0.03
15100804	Maxilam	MXLA-K38-762*610-00/20	762 x 610 x128	H14	16.5	753/110	7.0	0.04
15100805	Maxilam	MXLA-K38-914*610-00/20	914 x 610 x 128	H14	19.9	903/110	8.4	0.05
15100806	Maxilam	MXLA-K38-1219*610-00/20	1219 x 610 x 128	H14	26.6	1205/110	11.2	0.07
15100807	Maxilam	MXLA-K38-1524*610-00/20	1524 x 610 x 128	H14	33.2	1506/110	14.0	0.08
15100808	Maxilam	MXLA-K38-914*762-00/20	914 x 762 x 128	H14	24.9	1128/110	10.5	0.06
15100809	Maxilam	MXLA-K38-1219*762-00/20	1219 x 762 x 128	H14	33.4	1505/109	14.0	0.08
15100810	Maxilam	MXLA-K38-1524*762-00/20	1524 x 762 x 128	H14	41.7	1881/109	17.5	0.10
15100811	Maxilam	MXLA-K38-914*914-00/20	914 x 914 x 128	H14	30	1353/109	12.6	0.08
15101001	Maxilam	MXLGS-K38-305*305-00/20	305 x 305 x 128	U15	3.7	151/135	1.4	0.01
15101002	Maxilam	MXLGS-K38-305*610-00/20	305 x 610 x 128	U15	7.5	301/131	2.8	0.02
15101003	Maxilam	MXLGS-K38-610*610-00/20	610 x 610 x 128	U15	15.2	603/131	5.6	0.03
15101004	Maxilam	MXLGS-K38-762*610-00/20	762 x 610 x 128	U15	19	753/131	7.0	0.04
15101005	Maxilam	MXLGS-K38-914*610-00/20	914 x 610 x128	U15	22.8	903/130	8.4	0.05
15101006	Maxilam	MXLGS-K38-1219*610-00/20	1219 x 610 x 128	U15	30.5	1205/130	11.2	0.07
15101007	Maxilam	MXLGS-K38-1524*610-00/20	1524 x 610 x 128	U15	38.1	1506/130	14.0	0.08
15101008	Maxilam	MXLGS-K38-914*762-00/20	914 x 762 x 128	U15	28.6	1128/130	10.5	0.06
15101009	Maxilam	MXLGS-K38-1219*762-00/20	1219 x 762 x 128	U15	38.2	1505/129	14.0	0.08
15101010	Maxilam	MXLGS-K38-1524*762-00/20	1524 x 762 x 128	U15	47.8	1881/129	17.5	0.10
15101011	Maxilam	MXLGS-K38-914*914-00/20	914 x 914 x128	U15	34.4	1353/129	12.6	0.08

Other dimension faceguards and gasket arrangement are available on request.

Very High Efficiency

MAXILAM K38 - MXLA / MXLGS / MXLSGS

Ed. 2006/07

FM
APPROVED

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

☺ **Camfil hints!** To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefiltration (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15101201	Maxilam	MXLSGS-K38-305*305-00/20	305 x 305 x 128	U16	3.9	151/156	1.4	0.01
15101202	Maxilam	MXLSGS-K38-305*610-00/20	305 x 610 x 128	U16	8	301/153	2.8	0.02
15101203	Maxilam	MXLSGS-K38-610*610-00/20	610 x 610 x 128	U16	16.2	603/151	5.6	0.03
15101204	Maxilam	MXLSGS-K38-762*610-00/20	762 x 610 x 128	U16	20.3	753/150	7.0	0.04
15101205	Maxilam	MXLSGS-K38-914*610-00/20	914 x 610 x 128	U16	24.3	903/150	8.4	0.05
15101206	Maxilam	MXLSGS-K38-1219*610-00/20	1219 x 610 x 128	U16	32.4	1205/150	11.2	0.07
15101207	Maxilam	MXLSGS-K38-1524*610-00/20	1524 x 610 x 128	U16	40.6	1506/150	14	0.08
15101208	Maxilam	MXLSGS-K38-914*762-00/20	914 x 762 x 128	U16	30.5	1128/150	5	0.06
15101209	Maxilam	MXLSGS-K38-1219*762-00/20	1219 x 762 x 128	U16	40.7	1505/150	14.0	0.08
15101210	Maxilam	MXLSGS-K38-1524*762-00/20	1524 x 762 x 128	U16	51.0	1881/149	17.5	0.10
15101211	Maxilam	MXLSGS-K38-914*914-00/20	914 x 914 x 128	U16	36.7	1353/149	12.6	0.08

Other dimension faceguards and gasket arrangement are available on request.

Very High Efficiency

Ed. 2006/07

ADVANTAGES

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefilters (F7/F8) or higher if necessary.

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

MEGALAM K-38 MGLA / MGLGS / MGLSGS

Application: Final or return filtration for clean rooms with turbulent or laminar flow
Type: ULPA filtering panel with laminator and seal for mechanical clamping systems.
Frame: Extruded and anodised aluminium.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Faceguard: Expanded metal, white RAL 9016 at inlet side
Laminator: On outlet side.

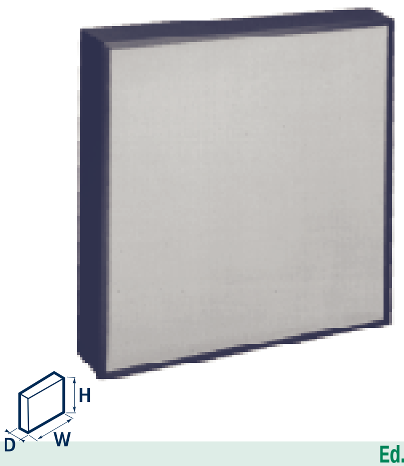
EN 1822 efficiency: H14/U15/U16.
MPPS efficiency: H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%.
DOP efficiency: H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop: 500 Pa.
Temperature: 70°C maximum in continuous service.
Mounting system : SM20 mechanical clamping structure.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15101401	Megalam	MGLA-K38-305*305-00/20	305 x 305 x 148	H14	4.2	151/77	1.7	0.01
15101402	Megalam	MGLA-K38-305*610-00/20	305 x 610 x 148	H14	8.7	301/75	2.9	0.02
15101403	Megalam	MGLA-K38-610*610-00/20	610 x 610 x 148	H14	17.5	603/75	5.3	0.04
15101404	Megalam	MGLA-K38-762*610-00/20	762 x 610 x 148	H14	21.9	753/75	6.5	0.05
15101405	Megalam	MGLA-K38-914*610-00/20	914 x 610 x 148	H14	26.3	903/75	7.7	0.06
15101406	Megalam	MGLA-K38-1219*610-00/20	1219 x 610 x 148	H14	35.2	1205/74	10.0	0.08
15101407	Megalam	MGLA-K38-1524*610-00/20	1524 x 610 x 148	H14	44.0	1506/74	12.4	0.10
15101408	Megalam	MGLA-K38-914*762-00/20	914 x 762 x 148	H14	33.0	1128/74	9.4	0.08
15101409	Megalam	MGLA-K38-1219*762-00/20	1219 x 762 x 148	H14	44.2	1505/74	12.4	0.10
15101410	Megalam	MGLA-K38-1524*762-00/20	1524 x 762 x 148	H14	55.2	1881/74	15.4	0.13
15101411	Megalam	MGLA-K38-914*914-00/20	914 x 914 x 148	H14	39.7	1353/74	11.2	0.09
15101601	Megalam	MGLGS-K38-305*305-00/20	305 x 305 x 148	U15	4.6	151/98	1.7	0.01
15101602	Megalam	MGLGS-K38-305*610-00/20	305 x 610 x 148	U15	9.3	301/95	2.9	0.02
15101603	Megalam	MGLGS-K38-610*610-00/20	610 x 610 x 148	U15	18.8	603/95	5.3	0.04
15101604	Megalam	MGLGS-K38-762*610-00/20	762 x 610 x 148	U15	23.5	753/95	6.5	0.05
15101605	Megalam	MGLGS-K38-914*610-00/20	914 x 610 x 148	U15	28.2	903/95	7.7	0.06
15101606	Megalam	MGLGS-K38-1219*610-00/20	1219 x 610 x 148	U15	37.8	1205/94	10.0	0.08
15101607	Megalam	MGLGS-K38-1524*610-00/20	1524 x 610 x 148	U15	47.2	1506/94	12.4	0.10
15101608	Megalam	MGLGS-K38-914*762-00/20	914 x 762 x 148	U15	35.4	1128/94	9.4	0.08
15101609	Megalam	MGLGS-K38-1219*762-00/20	1219 x 762 x 148	U15	47.4	1505/94	12.4	0.10
15101610	Megalam	MGLGS-K38-1524*762-00/20	1524 x 762 x 148	U15	59.2	1881/94	15.4	0.13
15101611	Megalam	MGLGS-K38-914*914-00/20	914 x 914 x 148	U15	42.6	1353/94	11.2	0.09

Other dimension faceguards and gasket arrangement are available on request.
Also available in other knife edge.

Very High Efficiency

MEGALAM K38 - MGLA / MGLGS / MGLSGS



Ed. 2006/07

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15101801	Megalam	MGLSGS-K38-305*305-00/20	305 x 305 x 148	U16	4.9	151/114	1.7	0.01
15101802	Megalam	MGLSGS-K38-305*610-00/20	305 x 610 x 148	U16	10.0	301/111	2.9	0.02
15101803	Megalam	MGLSGS-K38-610*610-00/20	610 x 610 x 148	U16	20.1	603/111	5.3	0.04
15101804	Megalam	MGLSGS-K38-762*610-00/20	762 x 610 x 148	U16	25.1	753/111	6.5	0.05
15101805	Megalam	MGLSGS-K38-914*610-00/20	914 x 610 x 148	U16	30.1	903/110	7.7	0.06
15101806	Megalam	MGLSGS-K38-1219*610-00/20	1219 x 610 x 148	U16	40.3	1205/110	10.0	0.08
15101807	Megalam	MGLSGS-K38-1524*610-00/20	1524 x 610 x 148	U16	50.4	1506/110	12.4	0.10
15101808	Megalam	MGLSGS-K38-914*762-00/20	914 x 762 x 148	U16	37.8	1128/110	9.4	0.08
15101809	Megalam	MGLSGS-K38-1219*762-00/20	1219 x 762 x 148	U16	50.6	1505/110	12.4	0.10
15101810	Megalam	MGLSGS-K38-1524*762-00/20	1524 x 762 x 148	U16	63.3	1881/110	15.4	0.13
15101811	Megalam	MGLSGS-K38-914*914-00/20	914 x 914 x 148	U16	45.5	1353/110	11.2	0.09

Other dimension faceguards and gasket arrangement are available on request.
Also available in other knife edge.

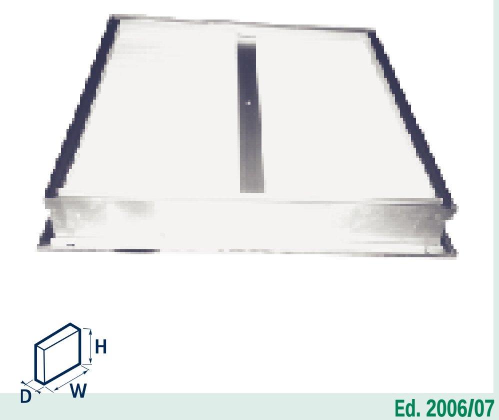
ADVANTAGES

- Less pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN1822
- Shipped with test certificate

Camfil hints! *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefilters (F7/F8) or higher if necessary.*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Very High Efficiency



Ed. 2006/07

ADVANTAGES

- Compact filter-diffuser for clean room
- Room side replaceable
- Gel seal between filter and housing.
- Adjustable perforated disc.
- Individually tested according to EN1822
- Shipped with test certificate

CPXRG

Application: Microelectronic, Hospital Operating Theater
Type: HEPA filter panel with seal for mechnical
Frame: Aluminium profile.
Gasket: Biomed Gel
Media: Glass Fibre
Separator: Hot-melt
Sealant: Polyurethane.
Faceguard: Expanded metal, powder coated white (RAL9016)

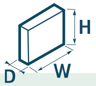
EN 1822 efficiency: H13
MPPS efficiency: H13: ≥ 99.95%.
DOP efficiency: H13: ≥ 99.9999%
Temperature: 70°C

Reference	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
200694001	12CPXRG-24242	554 x 554 x 77	H13	8	435/130	3.8	0.02
200693001	12CPXRG-24362	859 x 554 x 77	H13	12.4	680/128	5.8	0.04
200691001	12CPXRG-24482	1164 x 554 x 77	H13	16.8	947/130	7.8	0.05

Other dimension and faceguards and arrangement are available on request.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Very High Efficiency



Ed. 2006/07

FM
APPROVED

ADVANTAGES

- Compact filter-diffuser for clean room
- Ready to install
- Low noice : Lw = 35 dB
- Laminarity +/- 20%
- Individually tested according to EN1822
- Shipped with test certificate

SILENT HOOD MD

Application: Final filtration for clean rooms.
Type: Ready-to-install HEPA/ULPA filter diffuser.
Frame: Extruded and anodised aluminium, galvanised steel cover.
Gasket: Polyurethane, endless on outlet side.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Connection: Collar with outer dia. 305 mm or 250 mm depending on the model.
Faceguard: Expanded metal, white RAL 9016 at outlet side

EN 1822 efficiency: H13/H14/U15/U16.
MPPS efficiency: H13: ≥ 99.95%, H14: ≥ 99.995%, U15: ≥ 99.9995%, U16: ≥ 99.99995%
DOP efficiency: H13: ≥ 99.99%, H14: ≥ 99.999%, U15: ≥ 99.9999%, U16: ≥ 99.99999%.
Recommended final pressure drop: 500 Pa.
Maximum flow rate: Nominal flow rate otherwise reduction in efficiency.
Temperature: 70°C maximum in continuous service.
Test: 100% individual.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15300001	Midilar	MD(A)-HD10-610*610-01/02	610 x 610 x 110	H13	9.7	603/130	13	0.04
15300002	Midilar	MD(A)-HD10-914*610-01/02	914 x 610 x 110	H13	14.6	903/129	16	0.06
15300003	Midilar	MD(A)-HD10-1219*610-01/02	1219 x 610 x 110	H13	19.5	1205/129	19	0.08
15300004	Midilar	MD(A)-HD10-600*600-01/02	600 x 600 x 110	H13	9.4	583/130	13	0.04
15300005	Midilar	MD(A)-HD10-905*600-01/02	905 x 600 x 110	H13	14.2	880/130	16	0.06
15300006	Midilar	MD(A)-HD10-1210*600-01/02	1210 x 600 x 110	H13	19.1	1176/129	19	0.08
15300101	Midilar	MDA-HD10-610*610-01/02	610 x 610 x 110	H14	9.7	603/156	13	0.04
15300102	Midilar	MDA-HD10-914*610-01/02	914 x 610 x 110	H14	14.6	903/155	16	0.06
15300103	Midilar	MDA-HD10-1219*610-01/02	1219 x 610 x 110	H14	19.5	1205/155	19	0.06
15300104	Midilar	MDA-HD10-600*600-01/02	600 x 600 x 110	H14	9.4	583/156	13	0.08
15300105	Midilar	MDA-HD10-905*600-01/02	905 x 600 x 110	H14	14.2	880/155	16	0.06
15300106	Midilar	MDA-HD10-1210*600-01/02	1210 x 600 x 110	H14	19.1	1176/155	19	0.08
15300201	Midilar	MDGS-HD10-610*610-01/02	610 x 610 x 110	U15	11.3	603/161	13	0.04
15300202	Midilar	MDGS-HD10-914*610-01/02	914 x 610 x 110	U15	17.1	903/160	16	0.06
15300203	Midilar	MDGS-HD10-1219*610-01/02	1219 x 610 x 110	U15	22.7	1205/160	19	0.08
15300204	Midilar	MDGS-HD10-600*600-01/02	600 x 600 x 110	U15	11	583/160	13	0.04
15300205	Midilar	MDGS-HD10-905*600-01/02	905 x 600 x 110	U15	16.6	880/160	16	0.06
15300206	Midilar	MDGS-HD10-1210*600-01/02	1210 x 600 x 110	U15	22.2	1176/160	19	0.08
15300301	Midilar	MDSGS-HD10-610*610-01/02	610 x 610 x 110	U16	12.3	603/171	13	0.04
15300302	Midilar	MDSGS-HD10-914*610-01/02	914 x 610 x 110	U16	18.6	903/170	16	0.06
15300303	Midilar	MDSGS-HD10-1219*610-01/02	1219 x 610 x 110	U16	24.7	1205/171	19	0.08

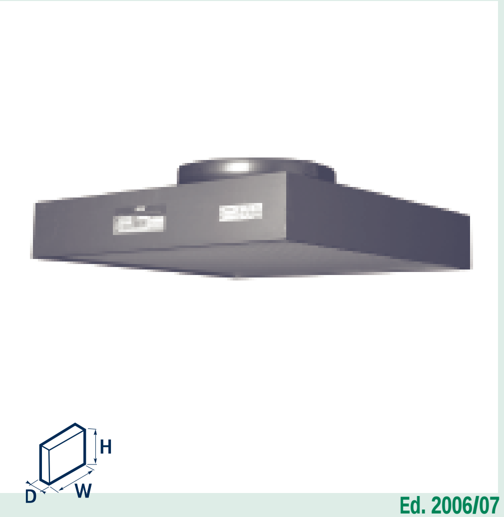
Also available with lam in ator.
HD : With perforated disc with divider
HL : With laminator

continue ...

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

camfil FARR

Very High Efficiency



Ed. 2006/07

FM
APPROVED

ADVANTAGES

- Compact filter-diffuser for clean room
- Ready to install
- Low noice : Lw = 35 dB
- Laminarity +/- 20%
- Individually tested according to EN1822
- Shipped with test certificate

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

SILENT HOOD MD

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15300304	Midilar	MDSGS-HD10-600*600-01/02	600 x 600 x 110	U16	11.9	583/171	13	0.04
15300305	Midilar	MDSGS-HD10-905*600-01/02	905 x 600 x 110	U16	18	880/171	16	0.06
15300306	Midilar	MDSGS-HD10-1210*600-01/02	1210 x 600 x 110	U16	24.2	1176/170	19	0.08
15301001	Midilar	MD(A)-HD12-610*610-01/02	610 x 610 x 110	H13	9.7	603/130	13	0.04
15301002	Midilar	MD(A)-HD12-914*610-01/02	914 x 610 x 110	H13	14.6	903/129	16	0.06
15301003	Midilar	MD(A)-HD12-1219*610-01/02	1219 x 610 x 110	H13	19.5	1205/129	19	0.08
15301004	Midilar	MD(A)-HD12-600*600-01/02	600 x 600 x 110	H13	9.4	583/130	13	0.04
15301005	Midilar	MD(A)-HD12-905*600-01/02	905 x 600 x 110	H13	14.2	880/130	16	0.06
15301006	Midilar	MD(A)-HD12-1210*600-01/02	1210 x 600 x 110	H13	19.1	1176/129	19	0.08
15301101	Midilar	MD A-HD12-610*610-01/02	610 x 610 x 110	H14	9.7	603/156	13	0.04
15301102	Midilar	MD A-HD12-914*610-01/02	914 x 610 x 110	H14	14.6	903/155	16	0.06
15301103	Midilar	MD A-HD12-1219*610-01/02	1219 x 610 x 110	H14	19.5	1205/155	19	0.08
15301104	Midilar	MD A-HD12-600*600-01/02	600 x 600 x 110	H14	9.4	583/156	13	0.04
15301105	Midilar	MD A-HD12-905*600-01/02	905 x 600 x 110	H14	14.2	880/155	16	0.06
15301106	Midilar	MD A-HD12-1210*600-01/02	1210 x 600 x 110	H14	19.1	1176/155	19	0.08
15301201	Midilar	MDGS-HD12-610*610-01/02	610 x 610 x 110	U15	11.3	603/161	13	0.04
15301202	Midilar	MDGS-HD12-914*610-01/02	914 x 610 x 110	U15	17.1	903/160	16	0.06
15301203	Midilar	MDGS-HD12-1219*610-01/02	1219 x 610 x 110	U15	22.7	1205/160	19	0.08
15301204	Midilar	MDGS-HD12-600*600-01/02	600 x 600 x 110	U15	11	583/160	13	0.04
15301205	Midilar	MDGS-HD12-905*600-01/02	905 x 600 x 110	U15	16.6	880/160	16	0.06
15301206	Midilar	MDGS-HD12-1210*600-01/02	1210 x 600 x 110	U15	22.2	1176/160	19	0.08
15301301	Midilar	MDSGS-HD12-610*610-01/02	610 x 610 x 110	U16	12.3	603/171	13	0.04
15301302	Midilar	MDSGS-HD12-914*610-01/02	914 x 610 x 110	U16	18.6	903/170	16	0.06
15301303	Midilar	MDSGS-HD12-1219*610-01/02	1219 x 610 x 110	U16	24.7	1205/171	19	0.08
15301304	Midilar	MDSGS-HD12-600*600-01/02	600 x 600 x 110	U16	11.9	583/171	13	0.04
15301305	Midilar	MDSGS-HD12-905*600-01/02	905 x 600 x 110	U16	18	880/171	16	0.06
15301306	Midilar	MDSGS-HD12-1210*600-01/02	1210 x 600 x 110	U16	24.2	1176/170	19	0.08
15401001	Midilar	MD(A)-HL10-610*610-01/02	610 x 610 x 110	H13	9.7	603/130	13	0.04
15401002	Midilar	MD(A)-HL10-914*610-01/02	914 x 610 x 110	H13	14.6	903/129	16	0.06
15401003	Midilar	MD(A)-HL10-1219*610-01/02	1219 x 610 x 110	H13	19.5	1205/129	19	0.08
15401004	Midilar	MD(A)-HL10-600*600-01/02	600 x 600 x 110	H13	9.4	583/130	13	0.04
15401005	Midilar	MD(A)-HL10-905*600-01/02	905 x 600 x 110	H13	14.2	880/130	16	0.06

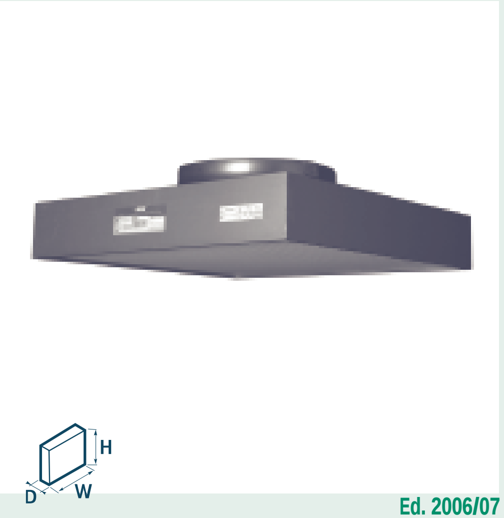
Also available with laminator.

HD: With perforated disc with divider
HL: With laminator

continue ...

Very High Efficiency

SILENT HOOD MD



Ed. 2006/07

FM
APPROVED

ADVANTAGES

- Compact filter-diffuser for clean room
- Ready to install
- Low noice : Lw = 35 dB
- Laminarity +/- 20%
- Individually tested according to EN1822
- Shipped with test certificate

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15401006	Midilar	MD(A)-HL10-1210*600-01/02	1210 x 600 x 110	H13	19.1	1176/129	19	0.08
15401101	Midilar	MDA-HL10-610*610-01/02	610 x 610 x 110	H14	9.7	603/156	13	0.04
15401102	Midilar	MDA-HL10-914*610-01/02	914 x 610 x 110	H14	14.6	903/155	16	0.06
15401103	Midilar	MDA-HL10-1219*610-01/02	1219 x 610 x 110	H14	19.5	1205/155	19	0.08
15401104	Midilar	MDA-HL10-600*600-01/02	600 x 600 x 110	H14	9.4	583/156	13	0.04
15401105	Midilar	MDA-HL10-905*600-01/02	905 x 600 x 110	H14	14.2	880/155	16	0.06
15401106	Midilar	MDA-HL10-1210*600-01/02	1210 x 600 x 110	H14	19.1	1176/155	19	0.08
15401201	Midilar	MDGS-HL10-610*610-01/02	610 x 610 x 110	U15	11.3	603/161	13	0.04
15401202	Midilar	MDGS-HL10-914*610-01/02	914 x 610 x 110	U15	17.1	903/160	16	0.06
15401203	Midilar	MDGS-HL10-1219*610-01/02	1219 x 610 x 110	U15	22.7	1205/160	19	0.08
15401204	Midilar	MDGS-HL10-600*600-01/02	600 x 600 x 110	U15	11	583/160	13	0.04
15401205	Midilar	MDGS-HL10-905*600-01/02	905 x 600 x 110	U15	16.6	880/160	16	0.06
15401206	Midilar	MDGS-HL10-1210*600-01/02	1210 x 600 x 110	U15	22.2	1176/160	19	0.08
15401301	Midilar	MDSGS-HL10-610*610-01/02	610 x 610 x 110	U16	12.3	603/171	13	0.04
15401302	Midilar	MDSGS-HL10-914*610-01/02	914 x 610 x 110	U16	18.6	903/170	16	0.06
15401303	Midilar	MDSGS-HL10-1219*610-01/02	1219 x 610 x 110	U16	24.7	1205/171	19	0.08
15401304	Midilar	MDSGS-HL10-600*600-01/02	600 x 600 x 110	U16	11.9	583/171	13	0.04
15401305	Midilar	MDSGS-HL10-905*600-01/02	905 x 600 x 110	U16	18	880/171	16	0.06
15401306	Midilar	MDSGS-HL10-1210*600-01/02	1210 x 600 x 110	U16	24.2	1176/170	19	0.08
15403001	Midilar	MD(A)-HL12-610*610-01/02	610 x 610 x 110	H13	9.7	603/130	13	0.04
15403002	Midilar	MD(A)-HL12-914*610-01/02	914 x 610 x 110	H13	14.6	903/129	16	0.06
15403003	Midilar	MD(A)-HL12-1219*610-01/02	1219 x 610 x 110	H13	19.5	1205/129	19	0.08
15403004	Midilar	MD(A)-HL12-600*600-01/02	600 x 600 x 110	H13	9.4	583/130	13	0.04
15403005	Midilar	MD(A)-HL12-905*600-01/02	905 x 600 x 110	H13	14.2	880/130	16	0.06
15403006	Midilar	MD(A)-HL12-1210*600-01/02	1210 x 600 x 110	H13	19.1	1176/129	19	0.08
15403101	Midilar	MDA-HL12-610*610-01/02	610 x 610 x 110	H14	9.7	603/156	13	0.04
15403102	Midilar	MDA-HL12-914*610-01/02	914 x 610 x 110	H14	14.6	903/155	16	0.06
15403103	Midilar	MDA-HL12-1219*610-01/02	1219 x 610 x 110	H14	19.5	1205/155	19	0.08
15403104	Midilar	MDA-HL12-600*600-01/02	600 x 600 x 110	H14	9.4	583/156	13	0.04
15403105	Midilar	MDA-HL12-905*600-01/02	905 x 600 x 110	H14	14.2	880/155	16	0.06
15403106	Midilar	MDA-HL12-1210*600-01/02	1210 x 600 x 110	H14	19.1	1176/155	19	0.08

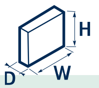
Also available with laminator.
HD : With perforated disc with divider
HL : With laminator

continue ...

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

camfil FARR

Very High Efficiency



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ADVANTAGES

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- Ready to install
- Low noice : Lw = 35 dB
- Laminarity +/- 20%
- Individually tested according to EN1822
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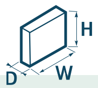
camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

SILENT HOOD MD

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15403201	Midilar	MDGS-HL12-610*610-01/02	610 x 610 x 110	U15	11.3	603/161	13	0.04
15403202	Midilar	MDGS-HL12-914*610-01/02	914 x 610 x 110	U15	17.1	903/160	16	0.06
15403203	Midilar	MDGS-HL12-1219*610-01/02	1219 x 610 x 110	U15	22.7	1205/160	19	0.08
15403204	Midilar	MDGS-HL12-600*600-01/02	600 x 600 x 110	U15	11	583/160	13	0.04
15403205	Midilar	MDGS-HL12-905*600-01/02	905 x 600 x 110	U15	16.6	880/160	16	0.06
15403206	Midilar	MDGS-HL12-1210*600-01/02	1210 x 600 x 110	U15	22.2	1176/160	19	0.08
15403301	Midilar	MDSGS-HL12-610*610-01/02	610 x 610 x 110	U16	12.3	603/171	13	0.04
15403302	Midilar	MDSGS-HL12-914*610-01/02	914 x 610 x 110	U16	18.6	903/170	16	0.06
15403303	Midilar	MDSGS-HL12-1219*610-01/02	1219 x 610 x 110	U16	24.7	1205/171	19	0.08
15403304	Midilar	MDSGS-HL12-600*600-01/02	600 x 600 x 110	U16	11.9	583/171	13	0.04
15403305	Midilar	MDSGS-HL12-905*600-01/02	905 x 600 x 110	U16	18	880/171	16	0.06
15403306	Midilar	MDSGS-HL12-1210*600-01/02	1210 x 600 x 110	U16	24.2	1176/170	19	0.08

Also available with laminator.
HD : With perforated disc with divider
HL : With laminator



Ed. 2006/07

FM APPROVED

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SILENT HOOD MX

Application: Final filtration for clean rooms.
Type: Ready-to-install HEPA/ULPA filter diffuser.
Frame: Extruded and anodised aluminium, galvanised steel cover.
Gasket: Polyurethane, endless on outlet side.
Media: Glass fibre paper.
Separator: Hot-melt beads.
Sealant: Polyurethane.
Connection: Collar withouter dia. 305 mm or 250 mm depending on the model.
Faceguard: Expanded metal, white RAL 9016 at outlet sides

EN 1822 efficiency: H13, H14, U15, U16
MPPS efficiency: H13: 99.95%. H14: 99.995%, U15: 99.9995%, U16: 99.99995%.
DOP efficiency: H13: 99.99%, H14: 99.999%, U15: 99.9999%, U16: 99.99999%.
Recommended final pressure drop: 600 Pa.
Maximum flow rate: Nominal flow rate otherwise reduction in efficiency.
Temperature: 70° C maximum in continuous service.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15300401	Maxilar	MXA-HD10-610*610-01/02	610 x 610 x 133	H14	13.2	603/111	13	0.05
15300402	Maxilar	MXA-HD10-914*610-01/02	914 x 610 x 133	H14	19.9	903/110	16	0.07
15300403	Maxilar	MXA-HD10-1219*610-01/02	1219 x 610 x 133	H14	26.6	1205/110	19	0.10
15300404	Maxilar	MXA-HD10-600*600-01/02	600 x 600 x 133	H14	12.8	583/110	13	0.05
15300405	Maxilar	MXA-HD10-905*600-01/02	905 x 600 x 133	H14	19.4	880/110	16	0.07
15300406	Maxilar	MXA-HD10-1210*600-01/02	1210 x 600 x 133	H14	25.9	1176/110	19	0.10
15300501	Maxilar	MXGS-HD10-610*610-01/02	610 x 610 x 133	U15	15.2	603/130	13	0.05
15300502	Maxilar	MXGS-HD10-914*610-01/02	914 x 610 x133	U15	22.8	903/130	16	0.07
15300503	Maxilar	MXGS-HD10-1219*610-01/02	1219 x 610 x 133	U15	30.5	1205/130	19	0.10
15300504	Maxilar	MXGS-HD10-600*600-01/02	600 x 600 x 133	U15	14.7	583/130	13	0.05
15300505	Maxilar	MXGS-HD10-905*600-01/02	905 x 600 x 133	U15	22.2	880/130	16	0.07
15300506	Maxilar	MXGS-HD10-1210*600-01/02	1210 x 600 x 133	U15	29.7	1176/130	19	0.10
15300601	Maxilar	MXSGS-HD10-610*610-01/02	610 x 610 x 133	U16	16.2	603/151	13	0.05
15300602	Maxilar	MXSGS-HD10-914*610-01/02	914 x 610 x 133	U16	24.3	903/151	16	0.07
15300603	Maxilar	MXSGS-HD10-1219*610-01/02	1219 x 610 x 133	U16	32.4	1205/151	19	0.10
15300604	Maxilar	MXSGS-HD10-600*600-01/02	600 x 600 x 133	U16	15.6	583/151	13	0.05
15300605	Maxilar	MXSGS-HD10-905*600-01/02	905 x 600 x 133	U16	23.7	880/151	16	0.07
15300606	Maxilar	MXSGS-HD10-1210*600-01/02	1210 x 600 x 133	U16	31.7	1176/150	19	0.10
15301401	Maxilar	MXA-HD12-610*610-01/02	610 x 610 x 133	H14	13.2	603/111	13	0.05
15301402	Maxilar	MXA-HD12-914*610-01/02	914 x 610 x 133	H14	19.9	903/110	16	0.07
15301403	Maxilar	MXA-HD12-1219*610-01/02	1219 x 610 x 133	H14	26.6	1205/110	19	0.10

Also availble with laminator
HD : With perforated disc with divider
HL : With laminator

continue ...

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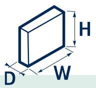
Very High Efficiency

SILENT HOOD MX



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FM APPROVED

ADVANTAGES

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- Ready to install
- Low noice : Lw = 35 dB
- Laminarity +/- 20%
- Individually tested according to EN1822
- Shipped with test certificate

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m^2	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m^3/hr/Pa	Unit weight kg	Unit volume m^3
15301404	Maxilar	MXA-HD12-600*600-01/02	600 x 600 x 133	H14	12.8	583/110	13	0.05
15301405	Maxilar	MXA-HD12-905*600-01/02	905 x 600 x 133	H14	19.4	880/110	16	0.07
15301406	Maxilar	MXA-HD12-1210*600-01/02	1210 x 600 x 133	H14	25.9	1176/110	19	0.10
15301501	Maxilar	MXGS-HD12-610*610-01/02	610 x 610 x 133	U15	15.2	603/130	13	0.05
15301502	Maxilar	MXGS-HD12-914*610-01/02	914 x 610 x 133	U15	22.8	903/130	16	0.07
15301503	Maxilar	MXGS-HD12-1219*610-01/02	1219 x 610 x 133	U15	30.5	1205/130	19	0.10
15301504	Maxilar	MXGS-HD12-600*600-01/02	600 x 600 x 133	U15	14.7	583/130	13	0.05
15301505	Maxilar	MXGS-HD12-905*600-01/02 9	905 x 600 x 133	U15	22.2	880/130	16	0.07
15301506	Maxilar	MXGS-HD12-1210*600-01/02	1210 x 600 x 133	U15	29.7	1176/130	19	0.10
15301601	Maxilar	MXSGS-HD12-610*610-01/02	610 x 610 x 133	U16	16.2	603/151	13	0.05
15301602	Maxilar	MXSGS-HD12-914*610-01/02	914 x 610 x 133	U16	24.3	903/151	16	0.07
15301603	Maxilar	MXSGS-HD12-1219*610-01/02	1219 x 610 x 133	U16	32.4	1205/151	19	0.10
15301604	Maxilar	MXSGS-HD12-600*600-01/02	600 x 600 x 133	U16	15.6	583/151	13	0.05
15301605	Maxilar	MXSGS-HD12-905*600-01/02	905 x 600 x 133	U16	23.7	880/151	16	0.07
15301606	Maxilar	MXSGS-HD12-1210*600-01/02	1210 x 600 x 133	U16	31.7	1176/150	19	0.10
15401401	Maxilar	MXA-HL10-610*610-01/02	610 x 610 x 133	H14	13.2	603/111	13	0.05
15401402	Maxilar	MXA-HL10-914*610-01/02	914 x 610 x 133	H14	19.9	903/110	16	0.07
15401403	Maxilar	MXA-HL10-1219*610-01/02	1219 x 610 x 133	H14	26.6	1205/110	19	0.10
15401404	Maxilar	MXA-HL10-600*600-01/02	600 x 600 x 133	H14	12.8	583/110	13	0.05
15401405	Maxilar	MXA-HL10-905*600-01/02	905 x 600 x 133	H14	19.4	880/110	16	0.07
15401406	Maxilar	MXA-HL10-1210*600-01/02	1210 x 600 x 133	H14	25.9	1176/110	19	0.10
15401501	Maxilar	MXGS-HL10-610*610-01/02	610 x 610 x 133	U15	15.2	603/130	13	0.05
15401502	Maxilar	MXGS-HL10-914*610-01/02	914 x 610 x 133	U15	22.8	903/130	16	0.07
15401503	Maxilar	MXGS-HL10-1219*610-01/02	1219 x 610 x 133	U15	30.5	1205/130	19	0.10
15401504	Maxilar	MXGS-HL10-600*600-01/02	600 x 600 x 133	U15	14.7	583/130	13	0.05
15401505	Maxilar	MXGS-HL10-905*600-01/02	905 x 600 x 133	U15	22.2	880/130	16	0.07
15401506	Maxilar	MXGS-HL10-1210*600-01/02	1210 x 600 x 133	U15	29.7	1176/130	19	0.10

Also available with laminator.
HD : With perforated disc with divider
HL : With laminator

Continue ...

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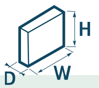
camfil FARR

Very High Efficiency



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SILENT HOOD MX

Reference	Type	Model	Dimensions (WxHxD) mm	Filter grade EN1822	Media surface m²	Air flow/pressure drop @ 0.45 m/s (typical) air velocity m³/hr/Pa	Unit weight kg	Unit volume m³
15401601	Maxilar	MXSGS-HL10-610*610-01-01/02	610 x 610 x 133	U16	16.2	603/151	13	0.05
15401602	Maxilar	MXSGS-HL10-914*610-01-01/02	914 x 610 x 133	U16	24.3	903/151	16	0.07
15401603	Maxilar	MXSGS-HL10-1219*610-01-01/02	1219 x 610 x 133	U16	32.4	1205/151	19	0.10
15401604	Maxilar	MXSGS-HL10-600*600-01/02	600 x 600 x 133	U16	15.6	583/151	13	0.05
15401605	Maxilar	MXSGS-HL10-905*600-01/02	905 x 600 x 133	U16	23.7	880/151	16	0.07
15401606	Maxilar	MXSGS-HL10-1210*600-01/02	1210 x 600 x 133	U16	31.7	1176/150	19	0.10
15403401	Maxilar	MXA-HL12-610*610-01/02	610 x 610 x 133	H14	13.2	603/111	13	0.05
15403402	Maxilar	MXA-HL12-914*610-01/02	914 x 610 x 133	H14	19.9	903/110	16	0.07
15403403	Maxilar	MXA-HL12-1219*610-01/02	1219 x 610 x 133	H14	26.6	1205/110	19	0.10
15403404	Maxilar	MXA-HL12-600*600-01/02	600 x 600 x 133	H14	12.8	583/110	13	0.05
15403405	Maxilar	MXA-HL12-905*600-01/02	905 x 600 x 133	H14	19.4	880/110	16	0.07
15403406	Maxilar	MXA-HL12-1210*600-01/02	1210 x 600 x 133	H14	25.9	1176/110	19	0.10
15403501	Maxilar	MXGS-HL12-610*610-01/02	610 x 610 x 133	U15	15.2	603/130	13	0.05
15403502	Maxilar	MXGS-HL12-914*610-01/02	914 x 610 x 133	U15	22.8	903/130	16	0.07
15403503	Maxilar	MXGS-HL12-1219*610-01/02	1219 x 610 x 133	U15	30.5	1205/130	19	0.10
15403504	Maxilar	MXGS-HL12-600*600-01/02	600 x 600 x 133	U15	14.7	583/130	13	0.05
15403505	Maxilar	MXGS-HL12-905*600-01/02	905 x 600 x 133	U15	22.2	880/130	16	0.07
15403506	Maxilar	MXGS-HL12-1210*600-01/02	1210 x 600 x 133	U15	29.7	1176/130	19	0.10
15403601	Maxilar	MXSGS-HL12-610*610-01/02	610 x 610 x 133	U16	16.2	603/151	13	0.05
15403602	Maxilar	MXSGS-HL12-914*610-01/02	914 x 610 x 133	U16	24.3	903/151	16	0.07
15403603	Maxilar	MXSGS-HL12-1219*610-01/02	1219 x 610 x 133	U16	32.4	1205/151	19	0.10
15403604	Maxilar	MXSGS-HL12-600*600-01/02	600 x 600 x 133	U16	15.6	583/151	13	0.05
15403605	Maxilar	MXSGS-HL12-905*600-01/02	905 x 600 x 133	U16	23.7	880/151	16	0.07
15403606	Maxilar	MXSGS-HL12-1210*600-01/02	1210 x 600 x 133	U16	31.7	1176/150	19	0.10

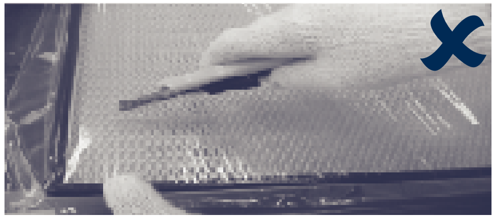
Also available with laminator.
HD : With perforated disc with divider
HL : With laminator

STORAGE AND HANDLING INSTRUCTION FOR CLEAN ROOM PANELS

STORAGE:
1. Store filters in original cartons in vertical position and on a flat surface or pallet.
2. Store in a dry environment

STORAGE IN CLEAN ROOM:
1. Store in a vertical position with label facing upwards
2. Protect filters from tilting

HANDLING

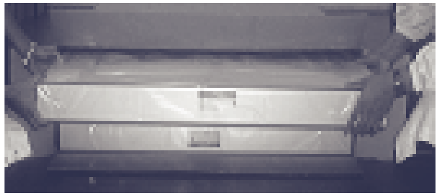


1. Do not use knife

2. Do not touch the media

3. Do not apply any load to the faceguard

4. Avoid twisting the filter



5. Lift filter at both sides at frame edge
and near filter corner

6. Handle large filters (>1200mm x 600mm) only by two persons

7. Protect the filter gasket - avoid sliding

Our product catalogue now available CD Rom

SUMMARY

Insert the Camfil Farr CD into your PC. Open Windows Explorer and search to your CD ROM drive. Double click on the file Camfil Farr Product Catalogue 2006/07.pdf

If you do not already have Adobe Acrobat Reader installed it can ve downloaded from the following webpage:

http://www.adobe.com/products/acrobat/readstep2.html

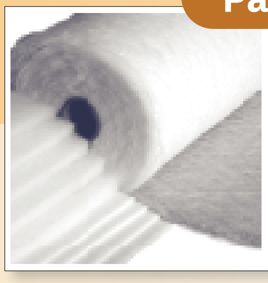
NOTE: your interactive catalogue will be much faster if you install the file Camfil Farr Product Catalogue 2006/07.pdf in a specific place in your computer.

QUICK SELECTION GUIDE

FILTER GRADE* | AIR FILTER SOLUTION

Application	Filter	Efficiency	Type	Eurovent	Grade	DOP 0,3µm	Standard	Class	Efficiency
Primary Filtration		MEDIUM EFFICIENCY	COARSE FILTERS	EUROVENT 4/5	EU2		EN 779: 2002	G2	≥ 65%
					EU3			G3	≥ 80%
					EU4			G4	≥ 90%
Air-conditioned premises with non-specific	Preparatory filtering upstream of	HIGH EFFICIENCY	FINE FILTERS	EUROVENT 4/5	EU5		EN 779: 2002	F5	≥ 40%
					EU6			F6	≥ 60%
					EU7			F7	≥ 80%
					EU8			F8	≥ 90%
					EU9			F9	≥ 95%
tertiary or industrial pollution	HEPA/ULPA filters	VERY HIGH EFFICIENCY	HEPA	EUROVENT 4/4	EU10	≥ 95%	EN 1822	H10	≥ 85%
					EU11	≥ 99,9%		H11	≥ 95%
Final filters/ Clean room filters	Class according to Fed. Std 209E: 10 000; 100 000				EU12 EU13	≥ 99,97% ≥ 99,99%		H12	≥ 99,5%
								H13	≥ 99,95%
	100 to 1000				EU14	≥ 99,999%		H14	≥ 99,995%
			ULPA					U15	≥ 99,9995%
	1 to 10							U16	≥ 99,99995%
								U17	≥ 99,999995%

Coarse filters




Page 3

Fine Filters



Page 11

MPPS (Most Penetrating Particle Size)

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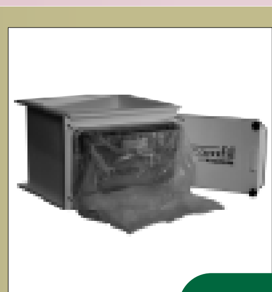
Filter Holdings Frames/ Casings

Filters housings, Sofdistri, FC Casings, Type 8 filter frames etc



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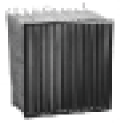
CAMFIL FARR SOLUTIONS - **HOSPITALS AND CLINICS**

N.b. - These illustrations present the simplest application of Camfil Farr solutions. For a personalised selection service, please contact us.

1 HI FLO F7



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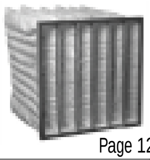
2 S FLO-W F7



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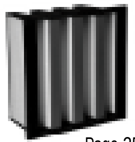
3 OPAKFIL-G F8



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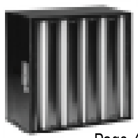
4 SOFILAIR H13, H14



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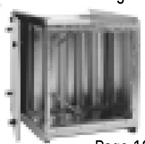
5 FCBS-A Casings



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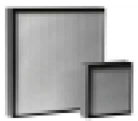
6 MIDILAR MDA



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CAMFIL FARR SOLUTIONS - **FOOD INDUSTRY**

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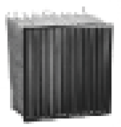
1 HI FLO F7



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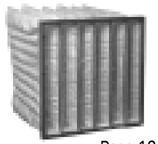
2 S-FLO-W F7



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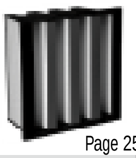
3 OPAKFIL-G F8



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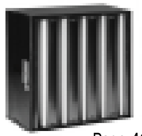
4 SOFILAIR H13, H14



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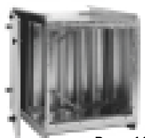
5 FCBL Casings



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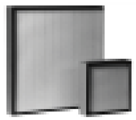
6 MIDILAR MDA



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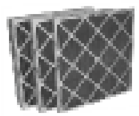
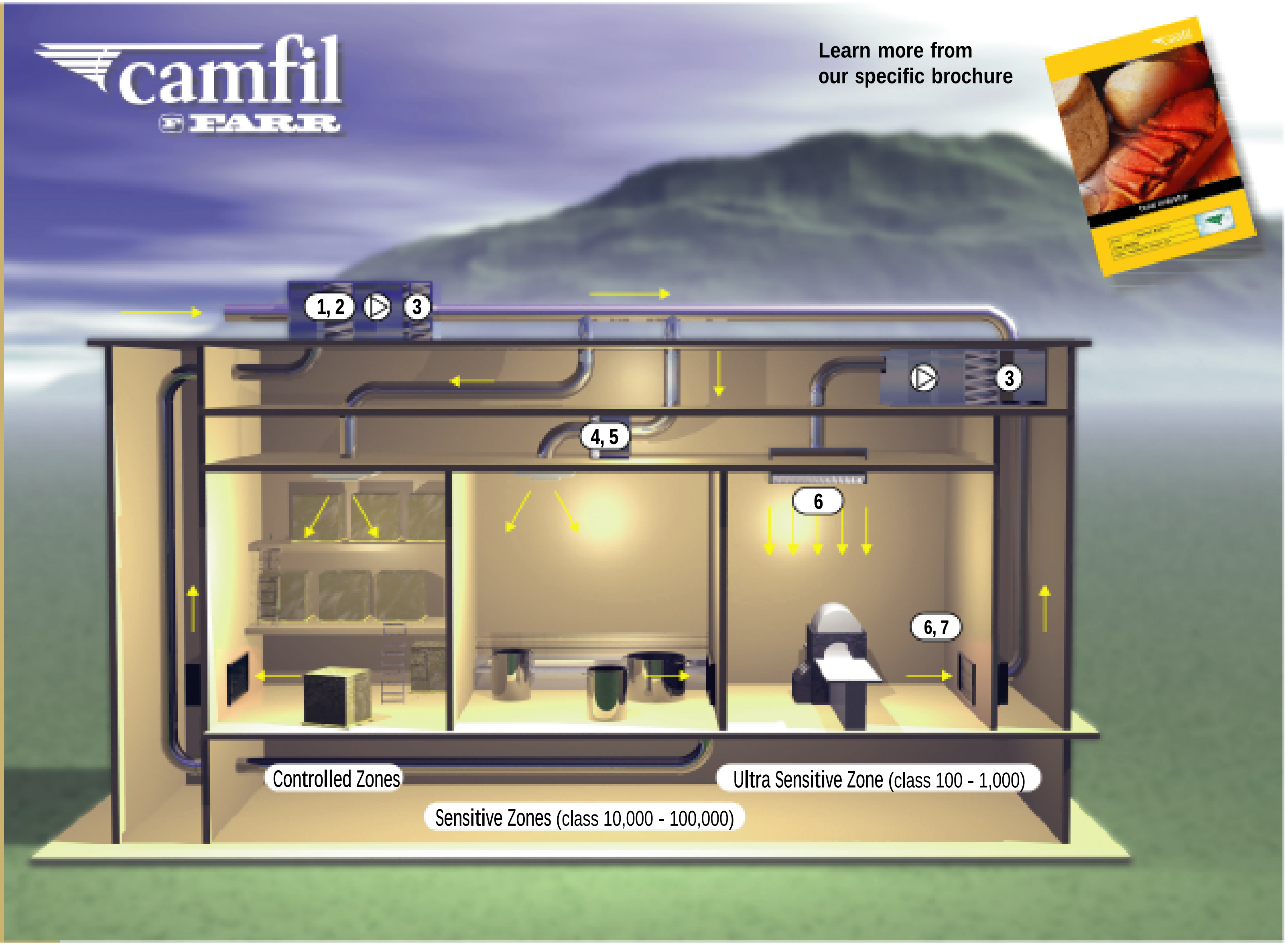
7 30 30



Page 4



CAMFIL FARR SOLUTIONS - **PHARMACEUTICAL INDUSTRY**

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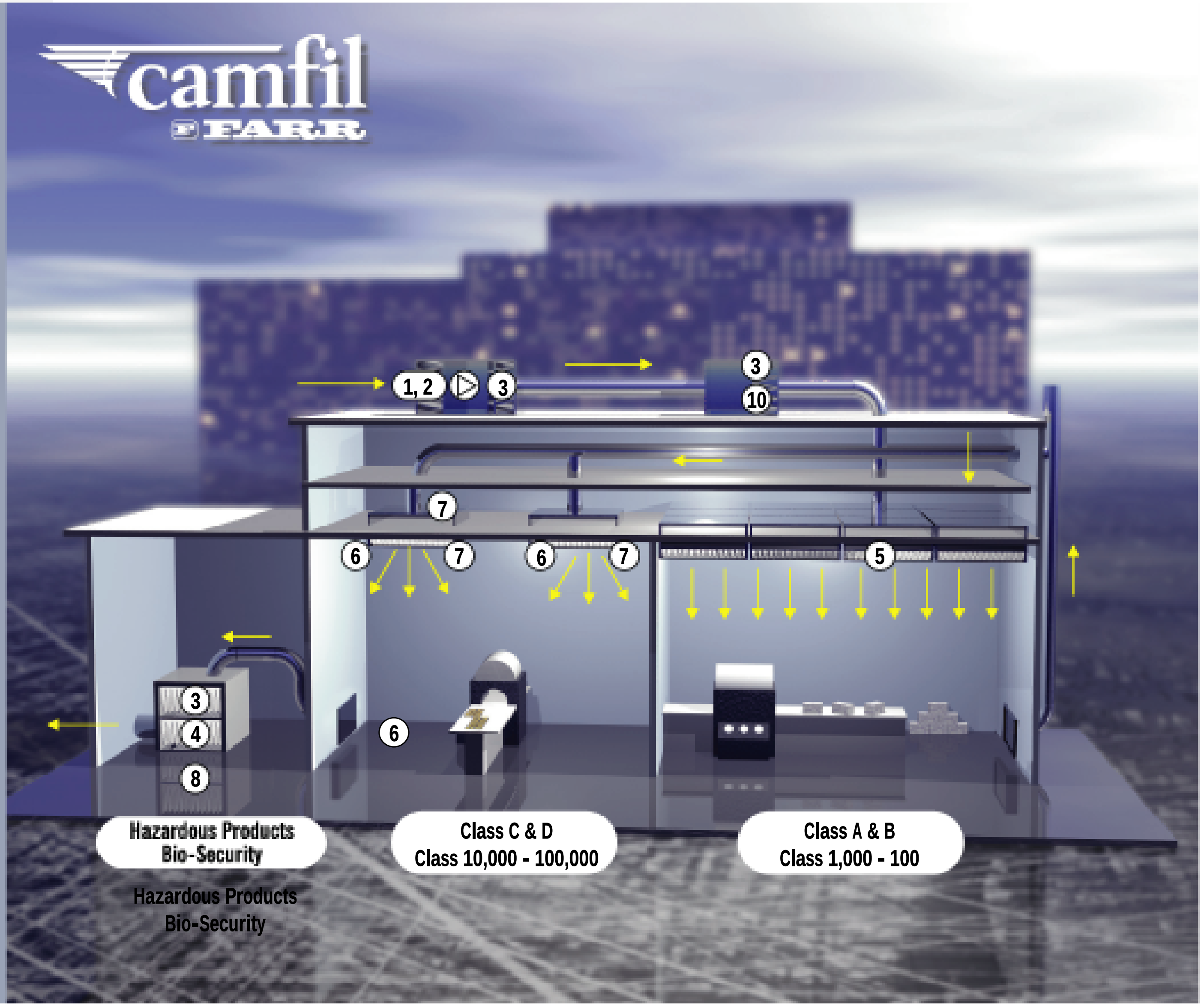

CAMFIL FARR SOLUTIONS - **AUTOMOTIVE INDUSTRY**

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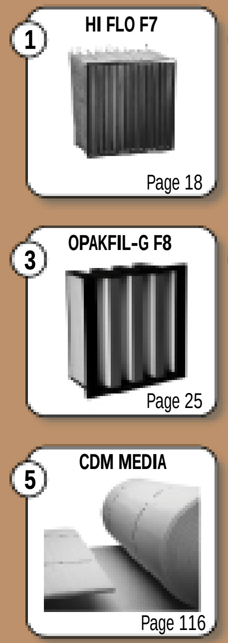


CAMFIL FARR SOLUTIONS - **MAINTAINING INDOOR AIR QUALITY (IAQ)**

1 30 / 30

Page 4

Pleated Panel Filter

2 HI CAP

Page 6

Synthetic Bag Filter

3 S-FLO-W- F7

Page 15

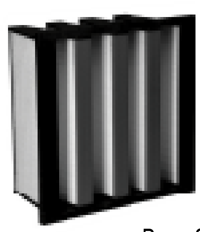
Synthetic Bag Filter

4 HI-FLO- F7*

Page 21

Glass Bag Filter

5 OPAKFIL-G- F7*



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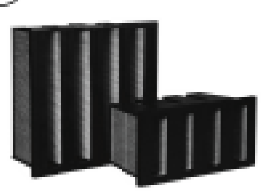
Rigid Compact Filter

6 CITY CARB - F7



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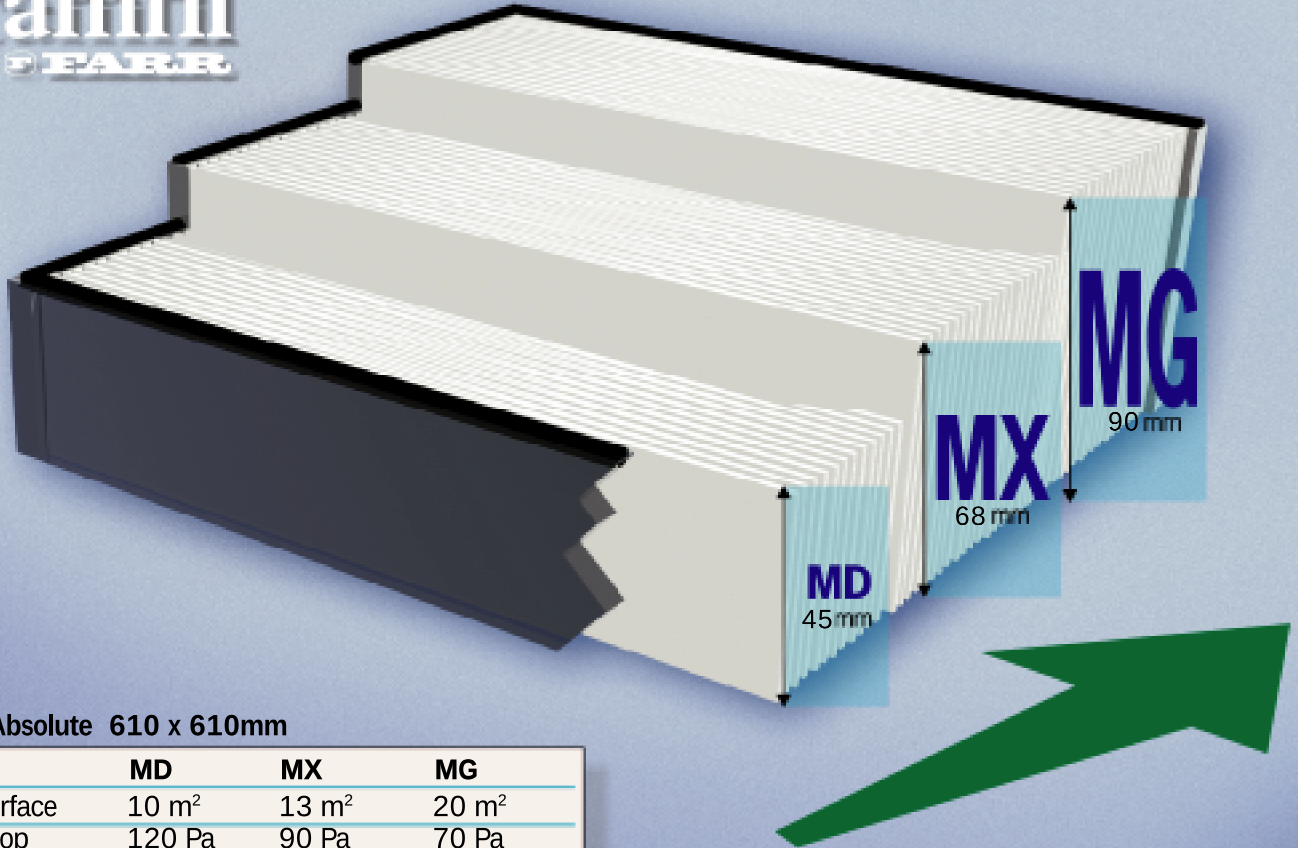
Two Stage Filter

* recommended efficiency (Uniclima and Eurovent), also available in other grades

Highlight products are **"Recommended Technical Solutions"**

N.b. - These illustrations present the simplest application of Camfil Farr solutions. For a personalised selection service, please contact us.

- Maximise air flow rate
- Minimise pressure drop
- Save energy



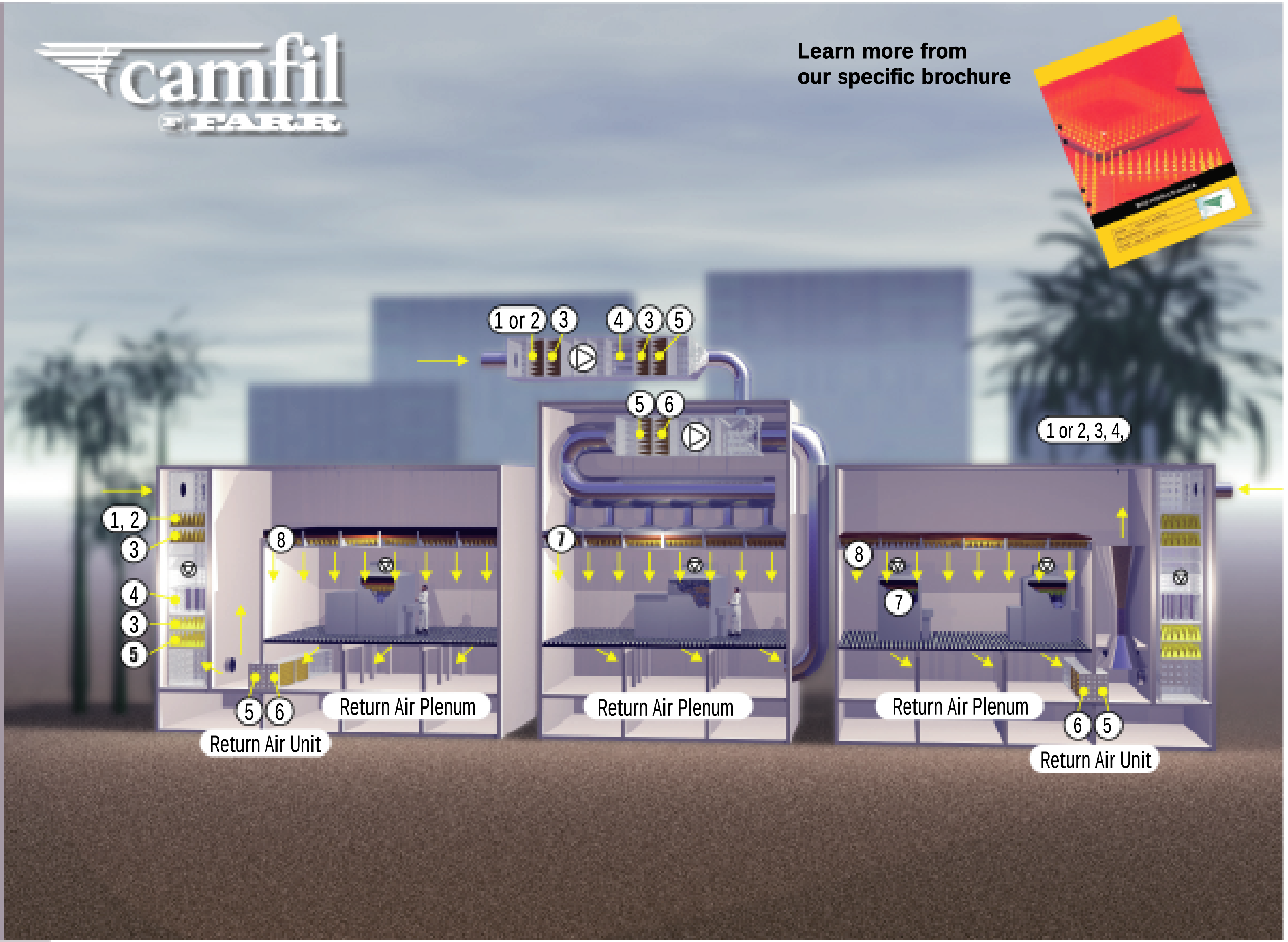
Example: Absolute 610 x 610mm

	MD	MX	MG
Filtering Surface	10 m^2	13 m^2	20 m^2
Pressure drop at 0,45 m/s (600m^3/h)	120 Pa	90 Pa (-25%)	70 Pa (-40%)
Air flow rate	1000 m^3/h 250 Pa	1300 m^3/h 195 Pa	2000 m^3/h 220 Pa
Energy		- 25%	- 42%
Operating life		x1,5	x2,5

- Lower pressure drop
- Higher air flow rate
- More energy savings

CAMFIL FARR SOLUTIONS - **MICROELECTRONIC INDUSTRY**

N.b. - These illustrations present the simplest application of Camfil Farr solutions. For a personalised selection service, please contact us.



FILTER ENGINEERING
Standards, Regulations, Recommendations

VENTILATION FILTERS

Standards

Year	Reference	Type of test	Classification
1968	ASHRAE	ARRESTANCE / EFFICIENCY	
1980	EUROVENT 4/5	ARRESTANCE / EFFICIENCY	EU1 to EU4 - EU5 to EU9
1982	AFNOR NFX 44.012	ARRESTANCE / EFFICIENCY	
1993	CENE N7 79	ARRESTANCE / EFFICIENCY	G1 to G4 - F5 to F9

EN 779 Classification

EN7 79 standard		Average arrestance Am (%)	Average efficiency Em (%)	EUROVENT4 /5 equivalent
Filter group	Filter class	Filter class limits		Filter class
Coarse (G)*	G1	Am < 65	-	EU 1
	G2	65 ≤ Am < 80	-	EU 2
	G3	80 ≤ Am < 90	-	EU 3
	G4	90 ≤ Am	-	EU 4
Fine (F) **	F5	-	40 ≤ Em < 60	EU 5
	F6	-	60 ≤ Em < 80	EU 6
	F7	-	80 ≤ Em < 90	EU 7
	F8	-	90 ≤ Em < 95	EU 8
	F9	-	95 ≤ Em	EU 9

Initial efficiency (Ea) : * Ea < 20% ; ** Ea ≥ 20%
Final pressure drop: * 250 Pa ; ** 450 Pa

Fed Std 209D - ISO 14644-1 guide

209D	ISO 14644-1 (@0.5µm,unmanned)
1	ISO 3
10	ISO 4
100	ISO 5
1 000	ISO 6
10 000	ISO 7
100 000	ISO 8

VERY HIGH EFFICIENCY FILTERS

Standards

Year	Reference	Type of test		Classification
1956	MIL STD 282	DOP	0.3 µm	-
1972	AFNOR NFX 44.011	Uranine	0.15 µm	-
1976	EUROVENT 4/4	NaCl	0.65 µm	EU10 to EU14
1995	CENE N1822	MPPS	0.1 to 0.2 µm	HEPA: H10 to H14 ULPA: U15 to U17

EN 1822 Classification

		MPPS integral values			MPPS local values		
Filter group	Filter class	Minimum efficiency (%)	Maximum penetration (%)	Minimum D.C.	Minimum efficiency (%)	Maximum penetration (%)	Minimum D.C.
HEPA (H)	H10	85	15	6.7	-	-	-
	H11	95	5	20	-	-	-
	H12	99.5	0.5	200	-	-	-
	H13	99.95	0.05	2.000	99.75	0.25	400
	H14	99.995	0.005	20,000	99.975	0.025	4.000
ULPA (U)	U15	99.9995	0.0005	200,000	99.9975	0.0025	40,000
	U16	99.99995	0.00005	2.000,000	99.99975	0.00025	400,000
	U17	99.999995	0.000005	20,000,000	99.9999	0.0001	1.000,000

HEPA : High Efficiency Particulate Air (filter)
ULPA : Ultra Low Penetration Air (filter)
D.C. : Decontamination Coefficient

Classification as per Eurovent 4/4 recommendation, NaCl method

EUROVENT4 /4	Inicial efficiency Ei (%)	Penetration Pi (%)
Filter class	Limits of filter classes	
EU 10	95 ≤ Ei < 99.9	5 ≤ Pi < 0.1
EU 11	99.9 ≤ Ei < 99.97	0.1 ≤ Pi < 0.03
EU 12	99.97 ≤ Ei < 99.99	0.03 ≤ Pi < 0.01
EU 13	99.99 ≤ Ei < 99.999	0.01 ≤ Pi < 0.001
EU 14	99.999 ≤ Ei	0.001 ≤ Pi

CLEAN ROOMS

Classification of different air qualities required for manufacture of sterile products

	Maximum number of particles per m^3 of a size greater than or equal to				Max. nbr: of µorganisms per m^3 (active)
	0.5 µm	5 µm	0.5 µm	5 µm	
	inactive (b)		active		
A	3.500	0	3.500	0	< 1
B	3.500	0	350,000	2.000	10
C	350,000	2.000	3.500,000	20,000	100
D	3.500,000	20,000	not defined (c)	not defined (c)	200

Rules and Guidance for Pharmaceutical Manufacturers and Distributors (2002)
(b) Corresponds approximately to the US Federal Standard 209 E and ISO as follows: classes A and B to class 100. M3 .5. ISO 5; class C to class 10,000. M5 .5. ISO 7; class D to class 100.000. M6 .5 ISO 8.

Comparison of international classification standards

Nbr of part ≤ 0.5 µm/ m^3 (approx.)	US Fed. Std 209 E 1992		ENI SO 14644-1 1996	France AFNOR NF X 44.101 1981	European Union Pharma industry Guide GMP 1989	Nbr of part ≤ 0.1 µm/ m^3 (approx.)
-	-	-	ISO 1	-	-	10
1	-	-	-	-	-	35
4	-	-	ISO 2	-	-	100
10	M1	-	-	-	-	350
35	M1 .5	1	ISO 3	-	-	1.000
100	M2	-	-	-	-	3 500
353	M2 .5	10	ISO 4	-	-	10,000
1.000	M3	-	-	-	-	35.000
3.530	M3 .5	100	ISO 5	4.000	A and B	100,000
10,000	M4	-	-	-	-	350,000
35.300	M4 .5	1.000	ISO 6	-	-	1.000,000
100,000	M5	-	-	-	-	-
353.000	M5 .5	10,000	ISO 7	400,000	C	-
1.000,000	M6	-	-	-	-	-
3.530,000	M6 .5	100,000	ISO 8	4.000,000	D	-
10,000,000	M7	-	-	-	-	-
35.000,000	-	-	ISO 9	-	-	-

Permissible particle levels in different classes of clean rooms and clean zones

ISO classification CD1 4644-1 (1996)	Maximum permissible concentrations (partículas/m³ of air) of particles of a size greater than or equal to the size shown below					
	0.1 µm	0.2 µm	0.3 µm	0.5 µm	1 µm	5 µm
ISO 1	10	2	-	-	-	-
ISO 2	100	24	10	4		-
ISO 3	1.000	237	102	35	8	-
ISO 4	10,000	2.370	1.020	352	83	-
ISO 5	100,000	23.700	10,200	3.520	832	29
ISO 6	1.000,000	237.000	102.000	35.200	8.320	293
ISO 7	-	-	-	352.000	83.200	2.930
ISO 8	-	-	-	3.520,000	832.000	29,300
ISO 9	-	-	-	35.200,000	8.320,000	293.000

$C = 10^{N}(0.1/D)^{2.08}$ part / m³

US Fed Std 209 E (1992)

Class Name		Class Limits									
		0.1 µm		0.2 µm		0.3 µm		0.5 µm		5 µm	
		Volume Units		Volume Units		Volume Units		Volume Units		Volume Units	
S1	English	m³	ft³	m³	ft³	m³	ft³	m³	ft³	m³	ft³
M1	-	350	9.91	75.7	2.14	30.9	0.875	10.0	0.283	-	-
M1 .5	1	1.240	35.0	265	7.50	106	3.00	35.3	1.00	-	-
M2	-	3.500	99.1	757	21.4	309	8.75	100	2.83	-	-
M2 .5	10	12,400	350	2.650	75.0	1.060	30.0	353	10.0	-	-
M3	-	35,000	991	7.570	214	3.090	87.5	1.000	28.3	-	-
M3 .5	100	-	-	26,500	750	10,600	300	3.530	100	-	-
M4	-	-	-	75,700	2.140	30,900	875	10,000	283	-	-
M4 .5	1000	-	-	-	-	-	-	35,300	1.000	247	7.00
M5	-	-	-	-	-	-	-	100,000	2.830	618	17.5
M5 .5	10,000	-	-	-	-	-	-	353,000	10,000	2.470	70.0
M6	-	-	-	-	-	-	-	1.000,000	28,300	6.180	175
M6 .5	100,000	-	-	-	-	-	-	3.530,000	100,000	24,700	700
M7	-	-	-	-	-	-	-	10,000,000	283,000	61,800	1.750

$\text{particles} / m^3 = 10^{M}(0.5/d)^{2.2}$
$\text{particles} / ft^3 = N_c(0.5/d)^{2.2}$

AIR-CONDITIONING / COMFORT

Air quality of premises with non specific pollution

	Regulatory aspect	Recommendations
	Labour code / Circular of application of decrees 84/1093-1094 dated 7/12/1984	UNICLIMA Air-conditioning & Health guide (1993)
Fresh air	Labour code Art. R235.2.6 Minimum arrestance efficiency 90% (G4 according to EN7 79)	Air-conditioning system inlet: 85% opacimetric (F7 according toE N 779) Air-conditioning system outlet: 90% opacimetric (F8 according toE N 779)
Recycled air	Labour code Art. R232.5.4 Minimum opacimetric efficiency 50% (F5 according to EN7 79)	85% opacimetric (F7 according to EN7 79)

FILTER ENGINEERING - Calculations

EFFICIENCY OF THE FILTERS

An air filter's efficiency is expressed in 3 forms:

The Efficiency % $R = \frac{(I-E)}{I} \times 100$

The Penetration % $P = \frac{E}{I} \times 100$

The Purification coefficient (no units) $CE = \frac{I}{E}$

Clearly the purification coefficient is the most representative expression for high level of filtration. E.g.:
Efficiency 99.995 % : CE of 20,000
Efficiency 99.9998% : CE of 500 000
The second filter is 25 times more efficient than the first.

Nota : **I** = particle concentration upstream **E** = particle concentration downstream

Conversion table (%)

Efficiency	Penetration	Purification Coefficient	Efficiency	Penetration	Purification Coefficient
95	5	20	99.99	0.01	10,000
99	1	100	99.995	0.005	20,000
99.5	0.5	200	99.999	0.001	100,000
99.9	0.1	1.000	99.9995	0.0005	200,000
99.95	0.05	2.000	99.9999	0.0001	1.000,000
99.97	0.03	3 333	99.99995	0.00005	2.000,000
99.98	0.02	5 000	99.99999	0.00001	10,000,000

COMPARATIVE EFFICIENCIES

		on 1 µm			on 0.5 µm		
		E	P	PC	E	P	PC
90%	ARRESTANCE	10%	90%	1.1	5%	95%	1.05
50%	EFFICIENCY	30%	70%	1.4	10%	90%	1.1
65%	EFFICIENCY	45%	55%	1.8	25%	75%	1.3
85%	EFFICIENCY	85%	15%	6.6	70%	30%	3.3
95%	EFFICIENCY	95%	5%	20	90%	10%	10
95%	0.3 µm	≥ 99%	< 1%	≥ 100	98%	2%	50

E = Efficiency P = Penetration PC = Purification Coefficient

OPERATING LIFE

An air filter's operating life is not directly proportional to its useful filtering surface. It is much better to opt for a model comprising 50% addtional surface. This increases its operating life by 100%, not 50%.

Actual case study

Filter model	Effective filtering surface	Initial pressure drop at 3 600m³/ h	Operating life*
Hi-Flo 3P8 5	6.5 m²	120 Pa	3.500 hours
Hi-Flo 3M8 5	9.4 m²	100 Pa	6.500 hours
Gain	3 m²	50 Pa	3.000 hours
Conclusion	**+ 46% in surface** (x 1.5)**	- 17% in energy	**+ 86% in operating life** (x 1.9)**

* Determined usingt he Camfil Farr calculation charts in the Hi-Flo brochure, for an average town environment
** factor of increase

ENERGY COSTS

Energy consumed by an air filter due to its pressure drop:

$$E = \frac{q \times \Delta p \times h}{\eta \times 1000} = \text{kWh / year}$$

q	=	flow rate (m^3/s)
Δ p	=	pressure drop (Pa)
h	=	operating period (hours) / year
η	=	fan efficiency (generally 0.6 to 0.7)

ACRONYMS AND ABREVIATIONS

AFNOR	French standardization body
ASHRAE	American Society of Heating, Refrigeratinga nd Air-conditioningE ngineers (USA)
ASPEC	Association for prevention and study of contamination (France)
BSI	British Standards Institute
CEN	European standardization body
CETIAT	Technical centre for air handing and thermal industries (France)
CNC	Condensation Nucleus Counter
VOC	Volatile Organic Compounds
CSTB	Scientific and technical centre for construction (France)
DEHS	Di-Etil-Hexil-Sebaçate (= DES = DOS)
DIN	Deutsches Institut für Normung
DOP	Di-Octil-Phtalate
EUROVENT	European Committee of Manufacturers of Air Handing Equipment
Arrest	Arrestance efficiency
HEPA	High Efficiency Particulate Air (filter)
ISO	International Standards Organization
MPPS	Most Penetrating Particle Size
Opa	Opacimetric efficiency
ULPA	Ultra Low Penetration Air (filter)
UNICLIMA	Association for refrigeration equipment and air handing equipment (France)
VTT	Technical research centre (Finland)
Δp	Pressure drop

CONVERSIONS

Speed

1 m/s = 3.6 km/h	1 km/h = 0.278 m/s	1 ft/mm = 0.00508m/s	1 m/s = 196.85 ft/mm

Length

1 mile = 1.609 km	1 km = 0.621 mile	1 yd = 0.914 m	1 m = 1.09 yd
1 ft = 0.305 m	1 m = 3.28 ft	1 in = 25.4 mm	1 mm = 0.039 in
1 mm = 1.000 µm	1 µm = 0.001 mm	1 µm = 1.000 nm	1 nm = 0.001 µm
1 µm = 10,000 Å	1 Å = 0.0001 µm		

Surface

1 ft^2 = 0.0929 m^2	1 m^2 = 10.8 ft^2	1 in^2 = 6.45 cm^2	1 cm^2 = 0.155 in^2

Volume

1 ft^3 = 0.0283 m^3	1 m^3 = 35.3 ft^3	1 ft^3 = 28.3 litres	

Flow rate

1 cfm = 0.472.10 $^{-3}$ m^3/s		1 m^3/s = 3 600 m^3/h	1 m^3/h = 0.278.10 $^{-3}$ m^3/s
1 cfm = 1.699 m^3/h		1 m^3 = 2 120 cfm	

Weight

1 lb = 0.454 kg	1 kg = 2.20 lb	1 oz = 28.3 g	1 g = 0.0352 oz

Force

1 kgf = 9.80665 N	1 N = 0.102 kgf	1 lbf = 4.45 N	1 N = 0.225 lbf

Pressure

1 mmCE = 9.81 Pa	1 Pa = 0.102 mmCE	1 kPa = pz	1 kPa = 10.2 g/cm^2
1 kg/cm^2 = 0.980665 bar	1 bar = 1.02 kg/cm^2	1 kg/m^2 = 98.0665 kPa	1 kPa = 0.00987 atm
1 psi = 6.89 kPa	1 bar = 101325 Pa	1 atm = 101.325 kPa	1 mb = 100 Pa
1 mmCE = 1kg/m^2	1 kPa = 0.145 psi	1 Pa = 1 N/m^2	1 in w.g. = 254 Pa

Energy

1 kgm = 9.80665 J	1 J = 0.102 kgm	1 cal = 4.184 J	1 J = 0.239 cal
1 kWh = 3.6 MJ	1 MJ = 0.278 kWh	1 Btu = 1.055 kJ	1 J = 0.945.10-3 Btu

Power

1 CV = 0.736	1 kW = 1.36 CV	1 kcal/h = 1.16 W	1 W = 0.860 kcal/h
1 Btu/h = 0.292 W	1 W = 3.42 Btu/h		

Temperature: conversion formulae

0 °C = 32 °F	0 °F = -17.8 °C
°F = (9/5) x °C + 32	°C = (5/9) x °F-1 7.8

Temperature: conversion table

°F . . . . . . °C	°F . . . . . . °C	°F . . . . °C	°F . . . . °C
0. . . . . - 17.8	30 . . . . . -1.1	50 . . . . 10.0	80 . . . . 26.7
10 . . . . - 12.2	32 0	60 . . . . 15.6	90 . . . . 32.2
20. . . . . - 6.7	40 . . . . . 4.4	70 . . . . 21.1	100 . . . . . . 37.8

Energy

1 kcal/kg = 4.19.103 J/kg	1 J/kg = 0.239.10-3 kcal/kg

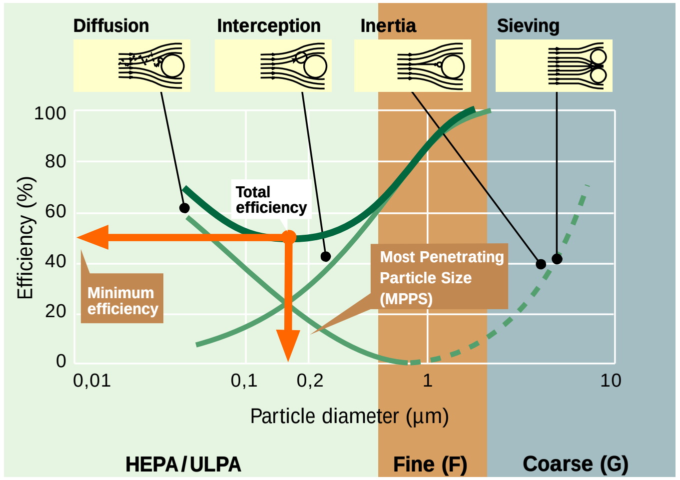
Heat transmission

1 kcal/h.m^2.°C = 1.16 W/(m^2 °C)	1 W/(m^2 °C) = 0.86 kcal/h.m^2 °C
1 Btu/(h.ft^2 °F) = 5.64 W/(m^2 °C)	1 W/(m^2 °C) = 0.177 Btu/(h.ft^2 °F)

FILTER ENGINEERING - Theory

MPPS

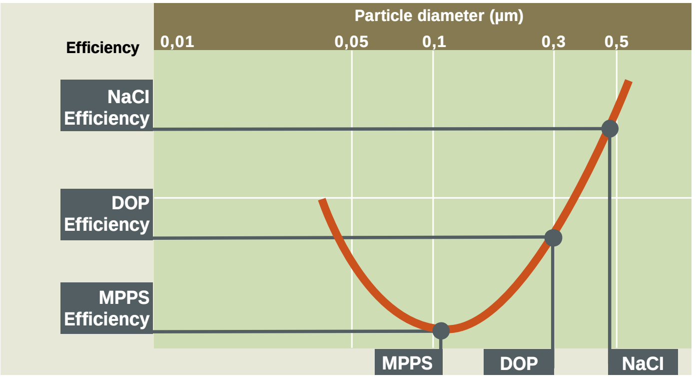
Minimum efficiency of air filters



The overall efficiency of an air filter is the result of a combination of 4 basic filtration mechanisms (sieving, inertia, interception and diffusion), so that the efficiency curve of an air filter adopts a characteristic V shape showing a minimum level of efficiency. This minimum efficiency corresponds to a particle size called MPPS (Most Penetrating Particle Size). In other words, the MPPS is the particle size that is the most difficult to stop. The MPPS is situated between 0.1 et 0.2 µm depending on the filter type, and the speed of air flow through the filtering media

EFFICIENCY TESTS (Not all the tests are equivalent)

MPPS (Most Penetrating Particle Size)



The NaCl test (EUROVENT 4/4) is less demanding then the DOP test, which in turn is less demanding than the MPPS test.

WHITBY DIAGRAM

Distribution of particles in atmospheric air

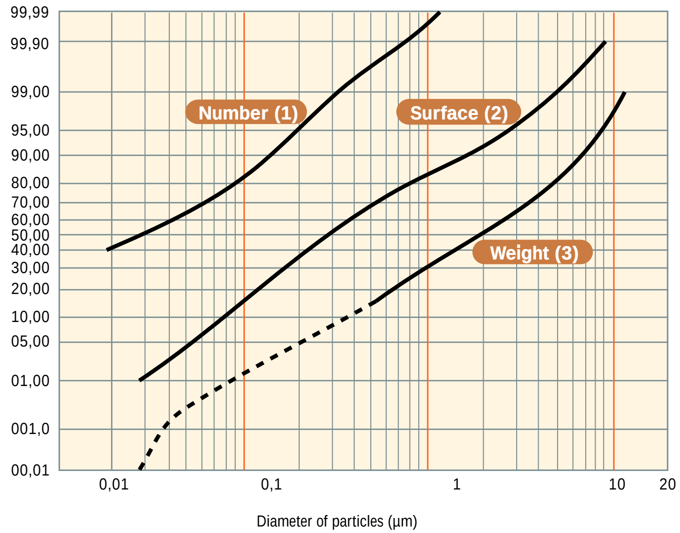
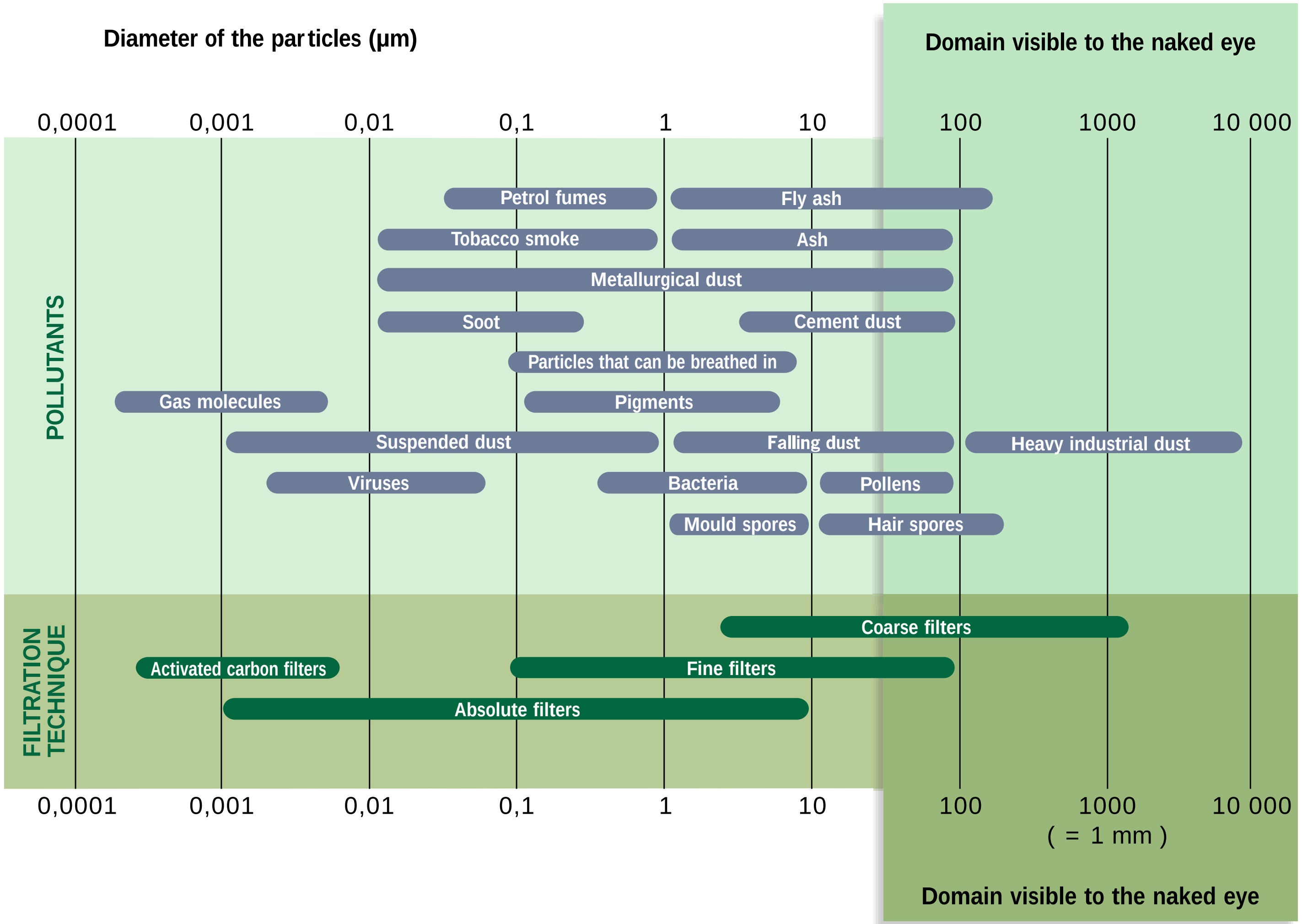


Diagram of Whitby: This diagram shows that more than 99.90% of airborne particles are less than or equal to 1µm in size.

Therefore, the essential part of air filtration's activity takes place in the invisible domain (human ocular partition power: 30 µm).

DIAGRAM OF PARTICLE SIZES



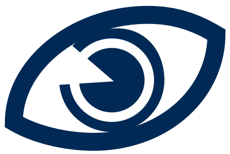
ACTIVATED CARBON FILTERS

CITYCARB CITYFLO

CITYCARB

CITY-FLO

CITYCARB PRINCIPLE

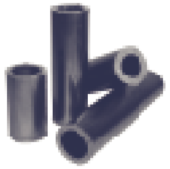


CITYSORB

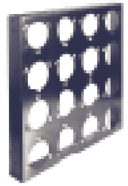
CITYSORB

CAMCARB Carbon Cylinders

CAMCARB CYLINDERS

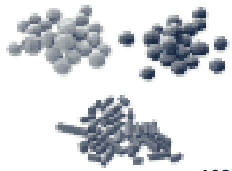


CAMCARB FRAMES



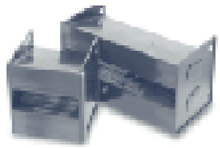
CAMPURE

CAMPURE MEDIA

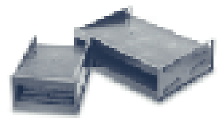


CAMPURE TECHNICAL SERVICE

CAMPURE GDM 300

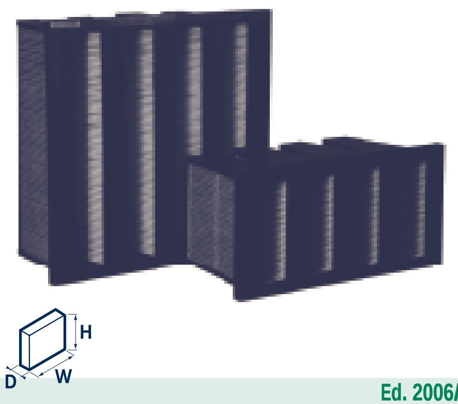


CAMPURE GDM 400



GIGAPLEAT

GIGAPLEAT



Ed. 2006/07

Combined 2 Stage Filter

ADVANTAGES

- Compact “2 in1” solution
- Double action: particle and odour filtration
- Ideal for filtering most low concentration interior and exterior pollutants
- New active principle: RAD, Rapid Adsorption Dynamic
- No dust emission
- 100% incinerable

CITYCARB

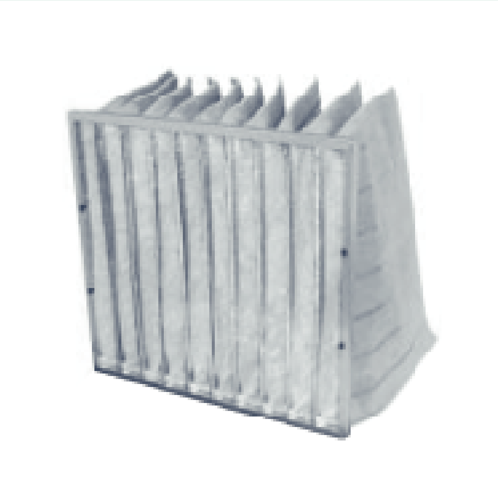
Application: High efficiency particle filtration for deodorization and purification of gas polluants, used for filtration in offices, airports and industrial workshops.
Type: High efficiency, activated carbon, incinerable filter.
Header Frame : Polypropylene
Media: Synthetic fibre.
Maximum flow rate: 4000 m^3/h.
Mounting system: “Camfil universal frame” frames in kit form, FC type housings.
Carbon: Very fine grains of activated carbon.
Filter Class EN779 : F7

Reference	Unitary Type volume	Model	Dimensions (WxHxD)mm	Filter grade EN 779	Carbon mass kg	Type of carbon	Air flow pressure drop for contact time =0,1 s m^3/h/ Pa	Unit weight kg	Unit volume m^3
5716522	CITYCARB	OPKCC-242412-01 PU	592x592x292	F7	3	RAD	3400/120	10.8	0.102
5716532	CITYCARB	OPKCC-242012-01 PU	592x490x292	F7	2.5	RAD	2800/120	9.2	0.085
5716542	CITYCARB	OPKCC-241212-01 PU	592x287x292	F7	1.5	RAD	1500/120	5.4	0.050

Only standard case
Acid gas version available

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Molecular Filtration



Ed. 2006/07

Combined 2 Stage Filter

ADVANTAGES

- Compact “2 in1” solution
- Double action: particle and odour filtration
- Ideal for filtering most low concentration interior and exterior pollutants
- New active principle: RAD, Rapid Adsorption Dynamic
- No dust emission
- 100% incinerable

camfil FARR

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CITY-FLO

Application: High efficiency particle filtration for deodorization and purification of gas polluants, used for filtration in offices , airports and industrial workshops.
Type: Particle and gas filter
Frame: Galvanized sheet metal
Media: Glass Fibre and broad spectrum carbon
Temperature : 50° C max. running temperature
Filterclass EN 779: F7
Humidity : 70% RH max

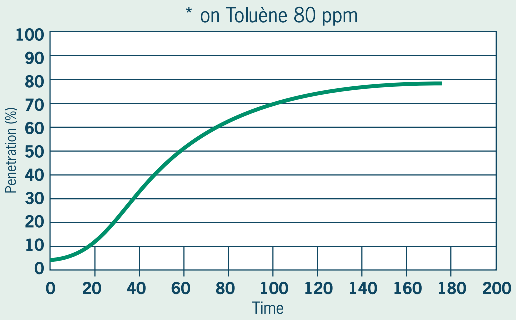
Reference	Type	Model	Diamentions (W xHxD)	Filter grade EN779	Air Flow/pressure drop m^3/h/ Pa	Unit weight kg	Unit volume m^3
544001A3	CITY-FLO	HFZS 592X592X534-10	592x592x534	F7	3400/140	6.0	1.20
544003A3	CITY-FLO	HFZS 490x592x534-8	490x592x534	F7	2550/140	4.6	0.90
544002A3	CITY-FLO	HFZS 287x592x534-5	287x592x534	F7	1700/145	3.5	0.60

Only standard case
Acid gas version available

CITYCARB Effective against dust, pollution and odours

Ed. 2006/07

EFFICIENCY



CityCarb has been specially designed to easily improve the quality of indoor air due to it's "2 in 1" concept:

1. Highly effective filtration: Classed as F7 according to EN779, it stops 85% of 1 micron particles and meets the recommendations of UNICLIMA and EUROVENT 12/1-92.

2. Adsorption of odours and pollution: This specifically designed product can provide efficiencies as high as 99% for Sulphur Dioxide, the main pollutant in urban environments.

CityCarb is easy to use

CityCarb is designed to fit in place of the existing pocket or compact filter within an air handling system. The existing frames can be used because the filter fixings are the same and as you are not adding an extra filter stage, the pressure drop remains low.

CityCarb uses a special ingredient -RAD

The RAD or Rapid Adsorption Dynamic ensures the optimum efficiency of CityCarb. Rather than the amount of carbon (the traditional measure), it is the capacity of this new form to rapidly trap gasses which ensures the advanced performance of CityCarb. The carbon is in the form of very small granules into which gas molecules can rapidly diffuse.

CityCarb eliminates the harmful effects of urban pollution

CityCarb is specifically designed to handle common substances found in atmospheric contamination:
NOX is caused by traffic, power stations and industrial plants.
Sulphur Dioxide is mainly produced by power station emissions however traffic pollution greatly adds to the problem.
Ammonia is caused by agriculture and industrial processes.
Hydrochloric acid is a by product from incineration plants.
Volatile Organic Compounds(VOC's) are caused by vehicle exhaust, solvents and aerosols.
Butadiene 1.3 is caused by vehicle emissions.
Some of these molecules are included in the calculation of the of the atmospheric pollution index.

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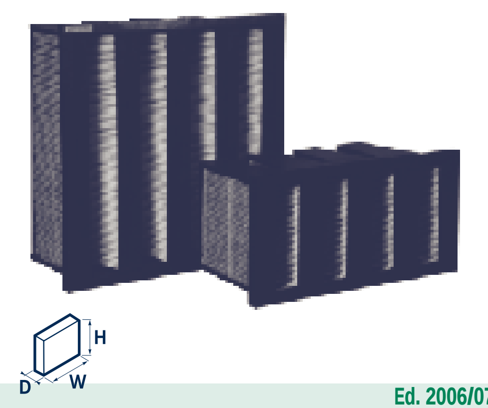
camfil FARR



Ed. 2006/07

Compact High Capacity Carbon Filter

ADVANTAGES

- Range of standard sizes
- Rigid design concept
- High efficiency
- Large air flow capacity

☺ ***Camfil hints!*** *Health - the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 both recommend 85 % opa (F7) entering air-conditioning systems.*

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

CITY SORB

Application: Adsorption of odours and gasses in air conditioning applications.
Type: Rigidp leated filter.
Case: Polystyrene.
Media: Multilayer carbon media.
Sealant: Polyurethane.
Separators: Hotmelt
Gasket: One piece PU gasket
Recommended temperaturer ange: 0- 40°C
Recommended relative humidity: < 70% RH
Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings

Reference	Type	Model	Dimensions (WxHxD)mm	Media surface m^{-2}	Air flow/pressure drop m^3/hr/Pa	Unit weight kg	Unit volume m^3
5718522	CitySorb	OPKC S-242412-01 PU	592x 592x 292	8,0	3400/80	10,80	0.102
5718532	CitySorb	OPKC S-242012-01 PU	592x 490x 292	6,6	2800/80	9,20	0.085
5718542	CitySorb	OPKC S-241212-01 PU	592x 287x 292	3,5	1500/80	5,40	0.050

Acid gas version available

Ed. 2006/07

Adsorptionand Deodorisation

ADVANTAGES

- Semi-industrial applications
- High performance
- Easy maintenance
- Rapid bayonet fitting

Camfil hints! *To avoid clogging the activated carbon, it is vital to install filters upstream with a minimum efficiency of 85% OPACIMETRIC (F7) type HI-FLO, S-FLO-W or OPAKFIL*

CAMCARB Cylinders

Application: Adsorption of odours (deodorization), adsorption of VOC and low toxicity gases.
Type: Cylindrical activated carbon cartridge, rapid bayonet system fixing.
Temperature: 40°C maximum in continuous service.
Mounting system: CAMCARB support plate, FCBL-CC housing.
Cylinders: Zinc-plated steel sheet.
Carbon: Coconut shell carbon: CM 05.

Reference	Type	Model	Dimensions (WxHxD) mm	Carbon thickness	Carbon volume (litres)	Type of carbon	Air flow/pressure drop for contact time = 0.15 s m³/h/Pa	Unit weight kg	Unit volume m³
571007	Camcarb	Cylinder 2600	145x145x455	26	4.3	CM0 5	94/40	4.0	0.01
571703	Camcarb	Cylinder 3500	145x145x605	26	5.7	CM0 5	125/40	5.2	0.02

Other types of activated carbon available. Contact us. – Stainless steel version on request.

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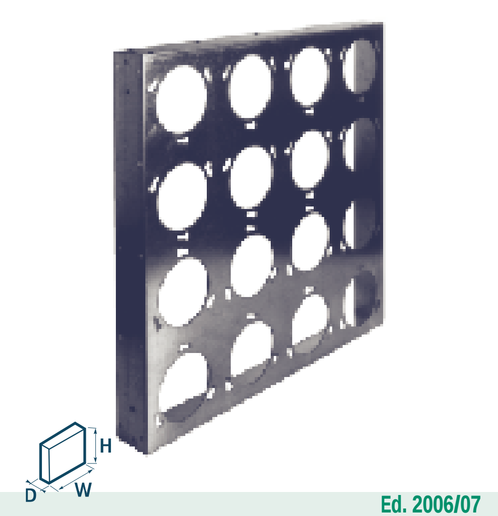

Ed. 2006/07

Adsorptionand Deodorisation

ADVANTAGES

- Modular design adaptable for all types of installations
- Easy maintenance
- Rapid tightening system via bayonet fitting
- Quick and easy service

CAMCARB Mounting Frames

Application: Assembly of Camcarb activated carbon cylinders.
Type: Quick bayonet-mounted support plate for Camcarb cylinders.
Design: Galvanised steel or stainless steel.
For filters: Camcarb activated carbon cylinders.
Mounting: Bayonet locking.

Reference	Type	Model	Overall dimensions (WxHxD) mm	Number of slots for cylinders	Unit weight kg	Unit volume m^3
59300301	Camcarb	Frame G8	305x610x70	8	3.0	0.13
59300601	Camcarb	Frame G16	610x610x70	16	4.8	0.03
16185400	Camcarb	Frame G8 SS	305x610x70	8	4.0	0.01
16185600	Camcarb	Frame G16 SS	610x610x70	16	5.0	0.03

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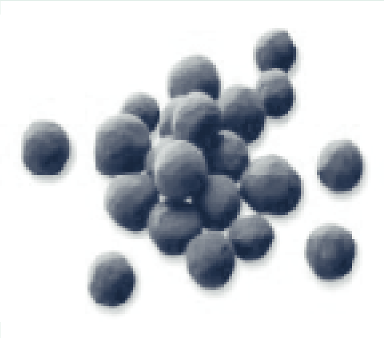
CAMPURE MEDIA



Effective molecular filtration media

A Comprehensive range of molecular filtration medias for the control of corrosive gases, toxic gases, odours and other gaseous pollutants. The medias may be used as part of original equipment packages or as replacement for spent media.
The campure range comprises chemically impregnated adsorbents based on activaed alumina which may be used on their own or blended with activated carbon.

Demanding applications

Campure medias are designed for the most difficult and demanding applications in industrial and commercial environments. The principal areas of use include the control of acidic gases in pulp and paper, oil refining, and steel production industries. If left untreated, acidic gases such as hydrogen sulphide, sulphur dioxide, chlorine and oxides of nitrogen may cause serious damage to key electrical equipment essential to process management. Other aplications include the control of acidic and odourous gases in waste water treatment applications and the protection of sensitive artefacts in museums and art galleries.

Flexible filtration solutions and support services

Campure medias may be deployed in a range of Camfil Farr hardware systems. These allow standard and custom, solutions for all industrial and commercial applications using various media amounts and bed depths. Campure medias may be re-filled directly into other manufacturers hardware.

Campure medias are suported by a comprehensive range of technical support services including: media life analysis, corrosion monitoring coupons, on-line monitoring and media handling.

Media	Target gases	Media type
Campure 4	H2S, SO2, NOX, formaldehyde, ethylene, light VOCs, Blow mol. Wt. aldehydes and organic acids	H2S, SO2, NOX, formaldehyde, ethylene, light VOCs, low mol. Wt. aldehydes and organic acids
Campure 5	halogens, halogen acids and organic halides	activated alumina with chemical imprenation
Campure 8	enhanced removal of H2S, SO2, NOX, formaldehyde, ethylene, acid gases	activated alumina with chemical imprenation
Campure 15	H2S, SO2, mercaptans, acid gases, chlorine	activated alumina and activated carbon with chamical impregnatin
CEX003 CEX004	VOCs, hydrocarbons, general odours	extruded activated carbon,. 3 and 4mm diameter
LGS036 LGS048	light VOCs, hydrocarbons, general odours	granular activated carbon (coconut shell)
Blends	Any of the Campure medias may be blended with either of the activated carbon based medias to provide an adsorption system that combines Broad Spectrum and Highly Specific chracteristics. The usual blend ratio is 50/50 by volume.	

See individual data sheets for grade specifications

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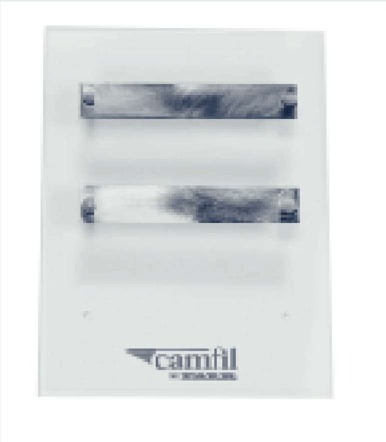
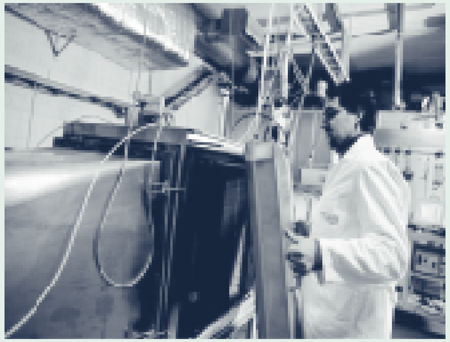
CAMPURE TECHICAL SERVICE



Campure coupons



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Campure coupons

Campure or reactivity coupons are an economical and simple way to assess the corrosive potential of an environment.
The coupons comprise a pair of copper and silver foil strips which are exposed to the environment. After a given period, the coupons are returned to the laboratory where the surface corrosion is determined.

The types and relative amounts of corrosion on each metal are indicative of the corrosive agents in the air.

Coupons may be used to assess an environment prior to selection and installation of a molecular filtration system and to validate the ongoing performance after installation.
Atmospheres may be classified according to the Instrument Society of America standard ISA-S71.04. Categories include Mild (G1), Moderate (G2), Harsh (G3) and Severe (GX).

Residual life analysis

It is important to be able to predict the impending failure of a molecular filter due to saturation of the media. This may be achieved through a programme of residual life analyses.

In this laboratory technique, a sample of media returned from the field is analysed for the residual content of the impregnation or chemical agent system.

A series of measurements made at 3 or 6 month intervals allow the eventual deterioration in the condition of the media to be anticipated and plans put in place for replacement.

Gas challenges

Camfil Farr have a unique test facility that allows full scale molecular filters to be tested under conditions which precisely replicate those experienced in actual applications.

The molecular filtration test rig allows filters to be exposed to airflows with a wide variety of temperatures and relative humidities.

Site services

Camfil Farr have the possibility to offer on-site support services. These may include:
- Supply and fit of particle filters.
- removal and disposal of waste material
- supply and fill of new campure media and in-site performance validation.

On-line monitoring

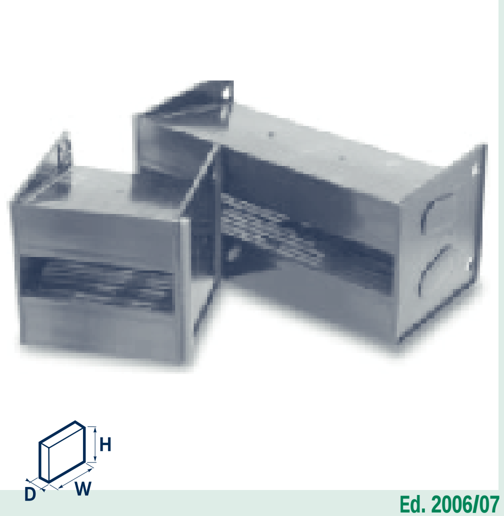
Some critical or highly sensitive applications may require performance monitoring at a higher level than can be provided by a combination of the above techniques. In particular continuous real-time monitoring may be required.

Camfil Farr offers an “Environmental Corrosion Monitoring System” that will give a direct and continuous serveillance of gas levels, based on the reaction of internal copper and silver strips.

LEDs indicate the environmental according to the Mild, Moderate, Harsh and Severe classifications. The unit also monitors and displays the two environmental parameters that strongly influence corrosion rates: temperature and relative humidity. 4-20 mA outputs are available as standard for remote applications.

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

CAMPURE GDM 300 - green disposable modules



Ed. 2006/07

ADVANTAGES

- High removal efficiency
- Minimum maintenance and service time
- No emptying and refilling
- Low pressure drop
- No requirement to handle filter media

Discription

Campure GDM plastic modules are used in conjunction with the appropriate Campure molecular filtration media and are specific solution to treat corrosive gases in industrial environments.

The modules are pre-filled at the factory with Campure molecular filter media.

Application parameters :		Specification GDM-300F / GDM-300H	
Relative Humidity :	30 - 90%	**Frame :**	high impact polystyrene
Temperature :	max. 50^{0}C	**Dimensions (WxHxD) :**	600x295x300 (full size F); 300x295x300 (half size H)
Residence Time :	min. 2.5sec (MUA),, 0-0.6sec. recirculation	**Bed depth :**	75 mm (3”)
Normal airflow :	425 m3/h (0.63m/s)	**Colour :**	black
Pressure drop :	75Pa, Campure 4, 5, 8, 15	**Filter media :**	customer choice (Campure 4, Campure 5, Campure 8 etc.)
		Gross weight :	13-23 kg, depending on media type (full size)
		Package :	cardboard box and protective plastic bag
		Application :	make up air handling units (MUA); recirculation air handling units.

TECHNICAL DATA FOR GREEN DISPOSABLE MODULES (Campure)

GDM 300-F

Wide : 600 mm
High : 300 mm
Long : 300 mm
Bed-depth : 75 mm
Media volume : 0.027 m^3

Face velocity (m/s)	Air volume (m^3/hr)	Contact time (sec)
0.25	162	0.60
0.50	324	0.30
0.75	486	0.20
1.00	648	0.15
1.25	810	0.12
1.50	972	0.10
1.75	1134	0.09
2.00	1296	0.08
2.25	1458	0.07
2.50	1620	0.06

GDM 300-H

Wide : 300 mm
High : 300 mm
Long : 300 mm
Bed-depth : 75 mm
Media volume : 0.00135 m^3

Face velocity (m/s)	Air volume (m^3/hr)	Contact time (sec)
0.25	81	0.60
0.50	162	0.30
0.75	243	0.20
1.00	324	0.15
1.25	405	0.12
1.50	486	0.10
1.75	567	0.09
2.00	648	0.08
2.25	729	0.07
2.50	810	0.06

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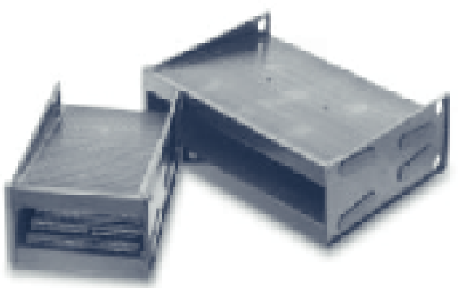
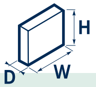
CAMPURE GDM 400 - green disposable modules





Ed. 2006/07

ADVANTAGES

- High removal efficiency
- Minimum maintenance and service time
- No emptying and refilling
- Low pressure drop
- No requirement to handle filter media

Discription

Campure GDM green modules are used in conjunction with the appropriate Campure molecular filtration media and are specific solution to treat corrosive gases in industrial environments.

The modules are pre-filled at the factory with Campure molecular filter media.

Application parameters :		Specification GDM-440F / GDM-440H	
Relative Humidity :	30 - 90%	**Frame :**	high impact polystyrene
Temperature :	max. 50° C	**Dimensions (WxHxD) :**	600x145x440 (full size F); 300x145x440 (half size H)
Residence Time :	min. 0.09 sec (RAHU)	**Bed depth :**	25 mm (1”)
Normal airflow :	700 m3/h (2.16m/s)	**Colour :**	black
Pressure drop :	50 Pa	**Filter media :**	customer choice (Campure 4, Campure 8, Campure 15 etc.)
		Gross weight :	6-11 kg, depending on media type (full size)
		Package :	cardboard box and protective plastic bag
		Application :	recirculation air handling units (RAHU).

TECHNICAL DATA FOR GREEN DISPOSABLE MODULES (Campure)

GDM 440-F

Wide: 600 mm
High: 150 mm
Long: 450 mm
Bed depth: 25 mm
Media volume: 0.0135 m^3

Face velocity (m/s)	Air volume (m^3/hr)	Contact time (sec)
0.25	81	0.60
0.50	162	0.30
0.75	243	0.20
1.00	324	0.15
1.25	405	0.12
1.50	486	0.10
1.75	567	0.09
2.00	648	0.08
2.25	729	0.07
2.50	810	0.06

GDM 440-H

Wide: 300 mm
High: 150 mm
Long: 450 mm
Bed depth: 25 mm
Media volume: 0.00675 m^3

Face velocity (m/s)	Air volume (m^3/hr)	Contact time (sec)
0.25	41	0.60
0.50	81	0.30
0.75	122	0.20
1.00	162	0.15
1.25	203	0.12
1.50	243	0.10
1.75	284	0.09
2.00	324	0.08
2.25	365	0.07
2.50	405	0.06

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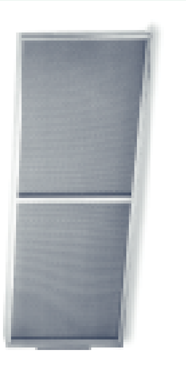
Learn more from our specific brochures

Ed. 2006/07

GIGAPLEAT - for Microelectronics

Today it is well known that airborne molecular contamination (AMC) can be seriously detrimental to the yield rate of some steps in microelectronics manufacturing processes. Molecular dimensions are orders of magnitude smaller than the finest particulate materials. AMC is not therefore removed by even the highest grades of HEPA or ULPA filters. The Camfil Farr Gigapleat range of molecular filter solutions will help you solve AMC related problems.
To suit all locations in the cleanroom ventilation system, Gigapleat filters are available in four patterns :-

Gigapleat NXPP (panel)

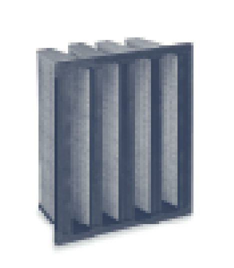


A panel filter – Ideal solution for cleanroom plenum, FFU or mini-environment applications.

Description

- Extremely low pressure drop
- High media cleanliness
- Aluminium frame
- Extremely small form factor
- Low weight
- Multiple media types can be combined into the same filter (same or different types)

Gigapleat NXPH (header frame)

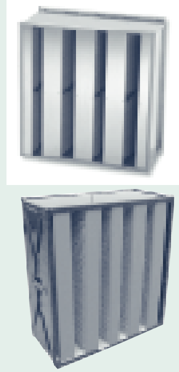


A four V-cell type molecular filter with a header frame - Solution for cleanroom recirculation.

Description

- Low pressure drop
- High media cleanliness
- Plastic frame with high chemical resistance and low out-gassing
- Size: 592x592x292, 592x490x292 and 592x287x292 mm

Gigapleat NXPC (cell)

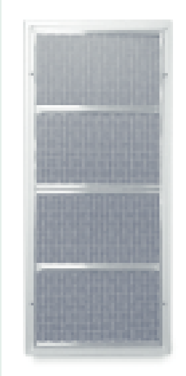


A four V-cell type chemical filter – Ideal solution for cleanroom recirculation and MUA applications for AMC removal.

Description

- Low pressure drop
- High media cleanliness
- Galvanised steel construction with negligible outgassing
- Plastic frame with high chemical resistance and low out-gassing
- Sizes: 610x610x292, 594x594x292 mm, 1/2 sizes

Gigalam



A combination filter – Ideal solution for Mini-environment and tool. Combination of HEPA / ULPA particle filtration and AMC molecular filtration.

Description

- Extremely small form factor – often the same as for particle filtration only
- Choice of standard, low boron or PTFE particle media
- Choice of different Gigapleat media
- Low pressure drop
- High media cleanliness

The Gigapleat range of molecular filters is enhanced by a comprehensive range of support services to assist in product selection and performance monitoring.
Please contact your local Camfil Farr office for assistance.

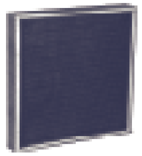
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

SPECIAL APPLICATIONS

PHARMACEUTICAL INDUSTRY AUTOMOTIVE INDUSTRY

Filters for High Temperature

TERMIKFIL 2000



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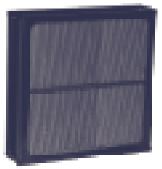
ABSOLUTE 1FRK



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Filters for Painting Booth

CDM MEDIA

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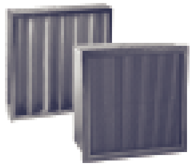
AIROPAC HT-HF



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TERMIKFIL 2000

Ed. 2006/07

High Temperature High Efficiency Filter

ADVANTAGES

- Meets FDA requirements - continuous 350°C, 99.99% at 0.3µm
- Ceramic frame
- Exclusive precuring process at 300°C carried out in the plant
- Efficiency tested after precuring

Application: Protection of ultra-clean processes at high temperature, sterilisation tunnel for the pharmaceutical industry.
Type: Very high efficiency panel resistant to 350°C in continuous service.
Frame: Composite ceramic.
Gasket: Rolled glass fibre paper + 6 mm dia. glass braid.
Media: Glass fibre.
Separator: Glass strands.
Sealant: Ceramic.
Grid: Upstream and downstream in stainless steel.
DOP efficiency: ≥ 99.99%.
Authorised local penetration: 10^{-4} maximum, (0.01% conforming to FDA).
Recommended final pressure drop: 350 Pa.
Temperature: Up to 350°C in continuous service.
Test: 100% after thermal treatment at 300°C.
Mounting: A stainless steel compensating frame can be supplied to reach the thickness of 150 mm or 292 mm.
N.B: To reduce fume emission when starting up, TERMIKFIL undergoes a specific precuring cycle in the factory at 300° using an exclusive CAMFIL FARR process.

Reference	Type	Model	Dimensions (WxHxD) mm	EN1 822 efficiency	Media surface m²	Air flow/pressure drop at 0.45 m/s m³/h/Pa	Unit weight kg	Unit volume m³
3415.07.00	TERMIKFIL	4P4	457x457x84	99.9	5.0	675/250	3	0.02
3415.06.00	TERMIKFIL	3P3	305x305x84	99.9	2.9	300/250	2	0.01
3415.01.00	TERMIKFIL	3P6	305x610x84	99.9	5.9	600/250	4	0.02
3415.02.00	TERMIKFIL	6P6	610x610x84	99.9	12.1	1200/250	5	0.03
3415.05.00	TERMIKFIL	4P6	457x610x84	99.9	8.9	900/250	4	0.02
3415.03.00	TERMIKFIL	7P6	762x610x84	99.9	15.3	1500/250	6	0.04
3415.04.00	TERMIKFIL	9P6	915x610x84	99.9	18.5	1800/250	8	0.05

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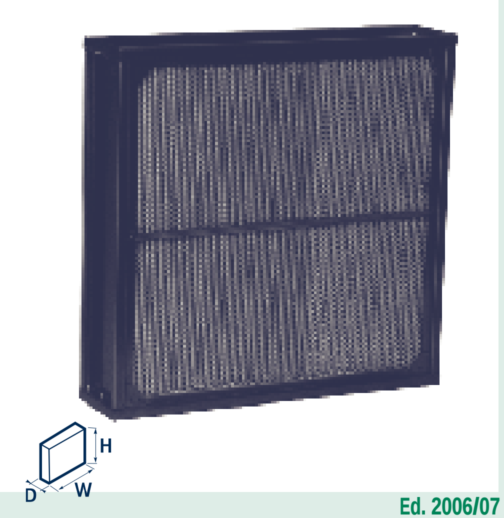
camfil FARR



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High Temperature
High Efficiency Filter

ADVANTADES

- Silicon free construction
- High temperature (up to 350° C)

camfil FARR

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ABSOLUTE 1FRK

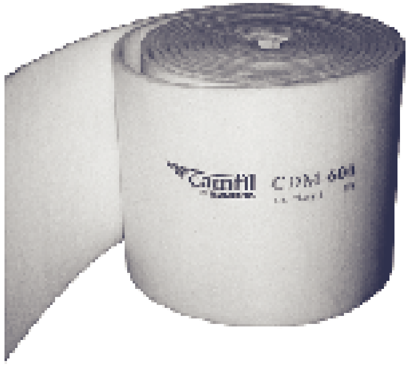
Application: Protection of ultra-clean processes at high temperatures.
Frame: Stainless steel, mat. No 1.4301.
Gasket: Glass fibre (on request).
Media: Glass fibre paper.
Separator: Aluminium foil.
Sealant: Ceramic
DOP efficiency: 99.97%.
Temperature: max.350°C
Efficiency: 99,99% at 0.3µm, measured at 20˚C with DEHS, 99,99% at MPPS, measured at 20˚C with DEHS,

Filterclass: H13 acc. EN 1822
Packaging: Each filter operating take care of the installation procedure

Type	Dimensions (WxHxD) mm	EN 1822 efficiency	Media surface m²	Air flow/nominal pressure drop m³/h/Pa
1FRK-200	305 x 305 x 292	H13	4.9	430/250
1FRK-220	305 x 610 x 150	H13	5.4	580/250
1FRK-300	457 x 457 x 150	H13	5.9	660/250
1FRK-450	305 x 610 x 292	H13	10.4	980/250
1FRK-600	610 x 610 x 150	H13	11.4	1,240/250
1FRK-725	457 x 610 x 292	H13	16.3	1,510/250
1FRK-830	762 x 610 x 150	H13	14.3	1,610/250
1FRK-980	915 x 610 x 150	H13	17.1	1,920/250
1FRK-1000	610 x 610 x 292	H13	22.5	2,050/250
1FRK-1250	762 x 610 x 292	H13	28.4	2,650/250
1FRK-610x457x150	610 x 457 x 150	H13	8.5	920/250
1FRK-762x457x150	762 x 457 x 150	H13	10.6	1,150/250
1FRK-762x45x292	762 x 457 x 292	H13	20.9	1,870/250

Model -01 = seal on air inlet side. – Model -10 = seal on air outlet side. – Other dimensions available on request.

CDM Media®



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High Performance Filter Media

ADVANTAGES

- Progressively built up thermal bonded polyester fibre
- Non Toxic
- Treated with special adhesive to prevent dust loss due to vibration
- Enhances laminar air flow patterns

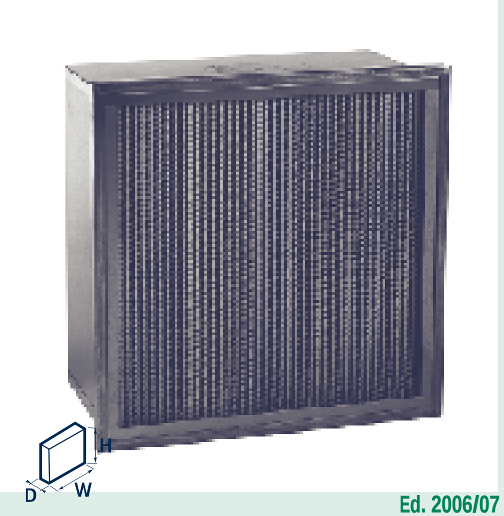
Application: For fine filtration in air conditioning devices and installations, particularly final filtration in Automotive spraybooths and drying cabinets.
Flammability: (DIN 53438) F1 self extinguishing.
Colour: White.
Media: Synthetic.
Efficiency EN 779: F5.
Arrestance Efficiency: 95%.
Efficiency Eurovent 4/5: EU5.
Temperature: 80° C - 100° C maximum in continuous service.
Humidity: 80 - 100% RH.

Reference	Type	Model	Dimensions (meters)	Filter grade EN7 79	Media area m²	Velocity / pressure drop m/s/Pa	Rear support scrim
5200013	Roll	Camtex CDM600	2.0 x 20	F5	40	0.25/25	yes
5200015	Roll	Camtex CDM600	1.7 x 20	F5	34	0.25/25	yes

Other sizes and cut pads available on request

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

AIROPAC-HT-HF



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High Temperature Compact Filter

ADVANTAGES

- High efficiency
- High temperature
- Silicon free construction
- Compact design

Application: Paint bake ovens.
Type: High efficiency, high temperature, silicon free compact filter.
Frame: Galvanised steel.
Gasket: Glass fibre.
Media: Glass fibre paper.
Separator: Corrugated aluminium.
Sealant: Glass fibre.
Grid: Galvanised steel grille upstream and downstream.
EN 779 efficiency: F6, F7.
Opacimetric efficiency: > 60%, > 90%.
Recommended final pressure drop: 300 Pa.
Temperature: 260°C maximum continuous, 385°C peak during 1 hour.

Reference	Model	Dimensions (WxHxD) mm	Media surface m^2	Air flow/pressure drop m^3/hr/Pa	Unit volume m^3	Unit weight kg
2180001	3CPM-HT-122412-60	305 x 610 x 292	7.7	1700/80	0.062	5.6
2180002	3CPM-HT-242412-60	610 x 610 x 292	15.9	3400/75	0.124	9.5
2180004	3CPM-HT-242406-60	610 x 610 x 150	7.8	170030	0.124	5.6
2180005	3CPM-HT-122403-60	305 x 610 x 78	2.4	750/30	0.020	2.0
2180006	3CPM-HT-242403-60	610 x 610 x 78	4.9	1500/30	0.039	4.0
2181001	3CPM-HT-122412-90	305 x 610 x 292	7.7	1700/120	0.062	5.6
2181002	3CPM-HT-242412-90	610 x 610 x 292	15.9	3400/110	0.124	9.5
2181004	3CPM-HT-242406-90	610 x 610 x 150	7.8	1700/65	0.072	5.6
2181005	3CPM-HT-122403-90	305 x 610 x 78	2.4	750/80	0.020	2.0
2181006	3CPM-HT-242403-90	610 x 610 x 78	4.9	1500/80	0.039	4.0
2181007	3CPM-HT-305*610*52-90	305 x 610 x 52	2.7	750/90	0.015	1.8
2181008	3CPM-HT-610*610*52-90	610 x 610 x 52	5.4	1500/90	0.035	3.6
2181009	3CPM-HT-480*480*78-90	480 x 480 x 78	2.3	800/80	0.023	2.1
2181010	3CPM-HT-915*457*78-90	915 x 457 x 78	5.7	2000/100	0.040	4.5
2181011	3CPM-HT-762*457*78-90	762 x 457 x 78	3.6	1250/80	0.040	3.8
2190001	3CPM-HT-HF-242412-60	592 x 592 x 292	13.3	3000/105	0.124	8.3
2191001	3CPM-HT-HF-242412-90	592 x 592 x 292	13.3	3000/150	0.124	8.3

Other dimensions available on request.

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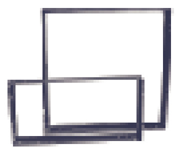
FILTER HOUSINGS AND SYSTEMS

Filter Housings

Terminal Filter Housings

FILTER HOLDING FRAME



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FCBS-HF

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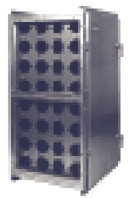
FCBL-CC



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SOFDISTRI

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CAMBOX

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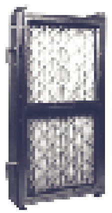
FCB-P



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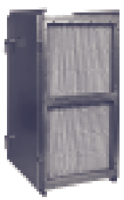
FCBS-A



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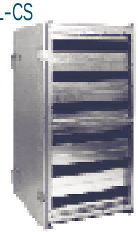
FCBL-CS



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CPXRG HOUSING

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CAMSAFE

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FCBL-HF

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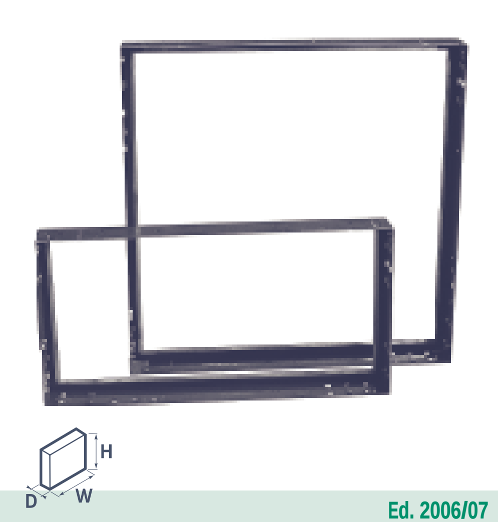

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Filter Holding Frames

ADVANTAGES FRAMES

- Robust rigid construction
- Pre drilled for easy assembly
- Dimples in the frame for correct filter location

ADVANTAGES CLIPS

- Designed for easy servicing
- Same frame can be used for different types of filter
- Filter holding clips can be easily replaced as required

FILTER HOLDING FRAME

Applications: Mounting coarse and fine filters in air conditioning units and systems
Type: Front access filter holding frame
Construction: Galvanised steel
Gasket: Polyurethane, endless
Filter Types: S-Flo-W. Hi-Flo, Hi-Cap bag filters, 1", 2" and 4" panel filters, Opakfil compact filter, Ecopleat
Filter fixing: Using 4 corner mounted clips, to suit the installed filter
Note: Remember to order the frame and the appropriate clips
Frame 4 : 4pcs of mounting clips are available
Type 8 : clips not included.

Reference	Type	Exterior dimensions (WxH) mm	Unit weight kg	Unit volume m^3
4300001	Frame 4SPXM	608 x 608 x 76	3.0	0.028
4300003	Frame 4URZO	303 x 608 x 76	2.2	0.014
430F-4300101	Type 8 Holding Frame 24 x 24”	608 x 608 x 76	3.0	0.028
430F-4300104	Type 8 Holding Frame 24 x 12”	303 x 608 x 76	2.2	0.014

other materials available on request other dimensions and arrangements available on request

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camfil FARR

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Modular Range of Filter Housings

ADVANTAGES

- Easy to install
- Modular construction
- No tools needed to change filters
- Gasket to seal between door and filter housing
- Clamping device for the filter
- Stable and secure design

CAMFIL hints! *Changing filters is simple using a hinged door equiped with quick release handles. The hinges are located on the at the air outlet side to make filter change easy even when there are space limitations.*

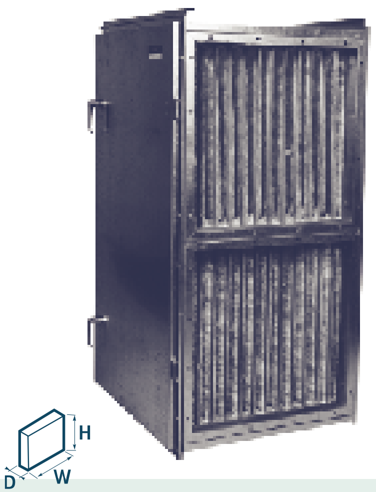
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

FCB-P

Housing: Galvinised steel.
Filter: Panel filters 25 mm (1 inch), 50 mm (2 inch) and 95 mm (4 inch) deep.
Alternative: Possibility to switch the housings 180° (flexibility to access from left or right side).
Please note: Stainless steel version is also available.

Reference	Type	Model	Exterior dimensions (WxHxD) mm	Interior dimensions (WxH) mm	Number of filter 592x592 mm	Number of filter 287x592 mm	Unit weight kg	Unit volume m³
604001020	FCB-P0 510	05 10	399x744x202	309x614	-	1	7.3	0.06
604001040	FCB-P1 005	10 05	704x439x202	614x309	-	1	7.3	0.06
604001050	FCB-P1 010	10 10	704x744x202	614x614	1	-	9.5	0.01
604001060	FCB-P1 015	10 15	704x1055x202	614x925	1	1	15	0.02
604001070	FCB-P1 020	10 20	704x1360x202	614x1230	2	-	17	0.19
604001080	FCB-P1 025	10 25	704x1670x202	614x1540	2	1	21.5	0.24
604001090	FCB-P1 030	10 30	704x1975x202	614x1845	3	-	25	0.28
604001100	FCB-P1 510	15 10	1013x744x202	923x614	1	1	13.5	0.15
604001110	FCB-P1 520	15 20	1013x1360x202	923x1230	2	2	23	0.28
604001120	FCB-P1 530	15 30	1013x1975x202	923x1845	3	3	32.5	0.40
604001130	FCB-P2 010	20 10	1318x744x202	1228x614	2	-	15	0.20
604001140	FCB-P2 015	20 15	1318x1055x202	1228x925	2	2	25	0.28
604001150	FCB-P2 020	20 20	1318x1360x202	1228x1228	4	-	26.5	0.36
604001160	FCB-P2 025	20 25	1318x1670x202	1228x1540	4	2	35	0.44
604001170	FCB-P2 030	20 30	1318x1975x202	1228x1845	6	-	37	0.53
604001180	FCB-P2 510	25 10	1677x744x500	1537x614	2	1	19	0.62
604001190	FCB-P2 520	25 20	1677x1360x500	1537x1230	4	2	32.5	1.14
604001200	FCB-P2 530	25 30	1677x1975x500	1537x1845	6	3	46	1.66
604001210	FCB-P3 010	30 10	1982x744x500	1842x614	3	-	21.5	0.74
604001220	FCB-P3 015	30 15	1982x1055x500	1842x925	3	3	32.5	1.05
604001230	FCB-P3 020	30 20	1982x1360x500	1842x1230	6	-	36	1.35
604001240	FCB-P3 025	30 25	1982x1670x500	1842x1540	6	3	47.5	1.65
604001250	FCB-P3 030	30 30	1982x1975x500	1842x1842	9	-	50.5	1.96

Other dimensions and arrangements available on request.



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Modular Range of Filter Housings

ADVANTAGES

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FCBL-HF

Housing: Galvinised steel.
Filter: S-FLO-W, HI-FLO and HI-CAP.
Alternative: Possibility to switch the housings 180° (flexibility to access from left or right side).
Please note: Stainless steel version is also available.

Reference	Type	Model	Exterior dimensions (WxHxD) mm	Interior dimensions (WxH) mm	Number of filter 592x592 mm	Number of filter 287x592 mm	Unit weight kg	Unit volume m^3
613003020	FCBL-HF0 510	05 10	399x744x750	309x614	-	1	25	0.22
613003040	FCBL-HF1 005	10 05	704x439x750	614x309	-	1	25	0.23
613003050	FCBL-HF1 010	10 10	704x744x750	614x614	1	-	32.5	0.39
613003060	FCBL-HF1 015	10 15	704x1055x750	614x925	1	1	51.5	0.56
613003070	FCBL-HF1 020	10 20	704x1360x750	614x1230	2	-	57.5	0.72
613003080	FCBL-HF1 025	10 25	704x1670x750	614x1540	2	1	73.5	0.88
613003090	FCBL-HF1 030	10 30	704x1975x750	614x1845	3	-	85	1.04
613003100	FCBL-HF1 510	15 10	1013x744x750	923x614	1	1	45	0.57
613003110	FCBL-HF1 520	15 20	1013x1360x750	923x1230	2	2	77.5	1.03
613003120	FCBL-HF1 530	15 30	1013x1975x750	923x1845	3	3	110	1.50
613003130	FCBL-HF2 010	20 10	1318x744x750	1228x614	2	-	51.5	0.74
613003140	FCBL-HF2 015	20 15	1318x1055x750	1228x925	2	2	84	1.06
613003150	FCBL-HF2 020	20 20	1318x1360x750	1228x1228	4	-	89	1.34
613003160	FCBL-HF2 025	20 25	1318x1670x750	1228x1540	4	2	117.5	1.95
613003170	FCBL-HF2 030	20 30	1318x1975x750	1228x1845	6	-	126	1.95
613003180	FCBL-HF2 510	25 10	1677x744x750	1537x614	2	1	64	0.94
613003190	FCBL-HF2 520	25 20	1677x1360x750	1537x1230	4	2	110	1.71
613003200	FCBL-HF2 530	25 30	1677x1975x750	1537x1845	6	3	156	2.48
613003210	FCBL-HF3 010	30 10	1982x744x750	1842x614	3	-	73.5	1.11
613003220	FCBL-HF3 015	30 15	1982x1055x750	1842x925	3	3	111	1.57
613003230	FCBL-HF3 020	30 20	1982x1360x750	1842x1230	6	-	121.5	2.02
613003240	FCBL-HF3 025	30 25	1982x1670x750	1842x1540	6	3	162	2.48
613003250	FCBL-HF3 030	30 30	1982x1975x750	1842x1842	9	-	172	2.94

Other dimensions and arrangements available on request.

Ed. 2006/07

Modular Range of Filter Housings

ADVANTAGES

- Easy to install
- Modular construction
- No tools needed to change filters
- Gasket to seal between door and filter housing
- Clamping device for the filter
- Stable and secure design

☺ ***CAMFIL hints!*** *Changing filters is simple using a hinged door equiped with quick release handles. The hinges are located on the at the air outlet side to make filter change easy even when there are space limitations.*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

FCBS-HF

Housing: Galviniseds teel.
Filter: S-FLO-W, HI-CAP,H I-FLO, and OPAKFIL G.
Alternative: Possibility to switch the housings 180° (flexibility to access from left or right side).
Please note: Stainlesss teel version is also available.

Reference	Type	Model	Exterior dimensions (WxHxD)m m	Interior dimensions (WxH)mm	Numbero ff ilter 592x592 mm	Number of filter 287x 592mm	Unit weight kg	Unit volume m³
613002020	FCBS-HF 0510	05 10	399x744x500	309x614	-	1	18	0.15
613002040	FCBS-HF 1005	10 05	704x439x500	614x309	-	1	18	0.16
613002050	FCBS-HF 1010	10 10	704x744x500	614x614	1	-	24	0.27
613002060	FCBS-HF 1015	10 15	704x1055x500	614x925	1	1	38	0.38
613002070	FCBS-HF 1020	10 20	704x1360x500	614x1230	2	-	42	0.49
613002080	FCBS-HF 1025	10 25	704x1670x500	614x1540	2	1	54	0.6
613002090	FCBS-HF 1030	10 30	704x1975x500	614x1845	3	-	62	0.71
613002100	FCBS-HF 1510	15 10	1013x744x500	923x614	1	1	33	0.39
613002110	FCBS-HF 1520	15 20	1013x1360x500	923x1230	2	2	57	0.7
613002120	FCBS-HF 1530	15 30	1013x1975x500	923x1845	3	3	80	1.03
613002130	FCBS-HF 2010	20 10	1318x744x500	1228x614	2	-	38	0.5
613002140	FCBS-HF 2015	20 15	1318x1055x500	1228x925	2	2	62	0.71
613002150	FCBS-HF 2020	20 20	1318x1360x500	1228x1228	4	-	65	0.92
613002160	FCBS-HF 2025	20 25	1318x1670x500	1228x1540	4	2	86	1.13
613002170	FCBS-HF 2030	20 30	1318x1975x500	1228x1845	6	-	92	1.33
613002180	FCBS-HF 2510	25 10	1677x744x500	1537x614	2	1	47	0.64
613002190	FCBS-HF 2520	25 20	1677x1360x500	1537x1230	4	2	81	1.17
613002200	FCBS-HF 2530	25 30	1677x1975x500	1537x1845	6	3	114	1.7
613002210	FCBS-HF 3010	30 10	1982x744x500	1842x614	3	-	54	0.76
613002220	FCBS-HF 3015	30 15	1982x1055x500	1842x925	3	3	81	1.07
613002230	FCBS-HF 3020	30 20	1982x1360x500	1842x1230	6	-	89	1.38
613002240	FCBS-HF 3025	30 25	1982x1670x500	1842x1540	6	3	118	1.7
613002250	FCBS-HF 3030	30 30	1982x1975x500	1842x1842	9	-	126	2

Other dimensions available on request.

Filter Housings and Systems

Ed. 2006/07

Modular Range of Filter Housings

ADVANTAGES

- Easy to install
- Modular construction
- No tools needed to change filters
- Gasket to seal between door and filter housing
- Clamping device for the filter
- Stable and secure design

CAMFIL hints! *Changing filters is simple using a hinged door equiped with quick release handles. The hinges are located on the at the air outlet side to make filter change easy even when there are space limitations.*

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

FCBS-A

Housing: Galvinised steel.
Filter: AIROPAC, MICRETAIN and SOFILAIR.
Alternative: Possibility to switch the housings 180° (flexibility to access from left or right side).
Please note: Stainless steel version is also available.

Reference	Type	Model	Exterior dimensions (WxHxD) mm	Interior dimensions (WxH) mm	Number of filter 592x592 mm	Number of filter 287x592 mm	Unit weight kg	Unit volume m^3
605003520	FCBS-A 0510	05 10	399x744x500	309x614	-	1	20	0.15
605003540	FCBS-A 1005	10 05	704x439x500	614x309	-	1	20	0.16
605003550	FCBS-A 1010	10 10	704x744x500	614x614	1	-	26	0.27
605003560	FCBS-A 1015	10 15	704x1055x500	614x925	1	1	41	0.38
605003570	FCBS-A 1020	10 20	704x1360x500	614x1230	2	-	46	0.49
605003580	FCBS-A 1025	10 25	704x1670x500	614x1540	2	1	59	0,60
605003590	FCBS-A 1030	10 30	704x1975x500	614x1845	3	-	68	0.71
605003600	FCBS-A 1510	15 10	1013x744x500	923x614	1	1	37	0.39
605003610	FCBS-A 1520	15 20	1013x1360x500	923x1230	2	2	62	0,7
605003620	FCBS-A 1530	15 30	1013x1975x500	923x1845	3	3	88	1.03
605003630	FCBS-A 2010	20 10	1318x744x500	1228x614	2	-	42	0,5
605003640	FCBS-A 2015	20 15	1318x1055x500	1228x925	2	2	68	0.71
605003650	FCBS-A 2020	20 20	1318x1360x500	1228x1228	4	-	72	0.92
605003660	FCBS-A 2025	20 25	1318x1670x500	1228x1540	4	2	95	1.13
605003670	FCBS-A 2030	20 30	1318x1975x500	1228x1845	6	-	101	1.33
605003680	FCBS-A 2510	25 10	1677x744x500	1537x614	2	1	51	0.64
605003690	FCBS-A 2520	25 20	1677x1360x500	1537x1230	4	2	89	1.17
605003700	FCBS-A 2530	25 30	1677x1975x500	1537x1845	6	3	126	1.7
605003710	FCBS-A 3010	30 10	1982x744x500	1842x614	3	-	59	0.76
605003720	FCBS-A 3015	30 15	1982x1055x500	1842x925	3	3	89	1.07
605003730	FCBS-A 3020	30 20	1982x1360x500	1842x1230	6	-	98	1.38
605003740	FCBS-A 3025	30 25	1982x1670x500	1842x1540	6	3	130	1.7
605003750	FCBS-A 3030	30 30	1982x1975x500	1842x1842	9	-	138	2

Other dimensions and arrangements available on request.

Ed. 2006/07

Modular Range of Filter Housings

ADVANTAGES

- Easy to install
- Modular construction
- No tools needed to change filters
- Gasket to seal between door and filter housing
- Clamping device for the filter
- Stable and secure design

CAMFIL hints! *Changing filters is simple using a hinged door equiped with quick release handles. The hinges are located on the at the air outlet side to make filter change easy even when there are space limitations.*

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

FCBL-CC

Housing: Galvinised steel.
Filter: Carbon cylinders 1000, 2000, or 2600.
Carbon CM05: For odours and VOC's.
Carbon CM07: For gases as H2S, SO2, NH3.
Alternative: Possibility to switch the housings 180° (flexibility to access from left or right side).
Please note: Stainless steel version is also available.

Reference	Type	Model	Exterior dimensions (WxHxD) mm	Interior dimensions (WxH) mm	Number of cylinders	Unit weight kg	Unit volume m³
607002020	FCBL-CC 0510	05 10	399x744x750	309x610	8	25.5	0.23
607002040	FCBL-CC 1005	10 05	704x439x750	614x309	8	25.5	0.24
607002050	FCBL-CC 1010	10 10	704x744x750	614x614	16	33	0.4
607002060	FCBL-CC 1015	10 15	704x1055x750	614x925	24	49.5	0.57
607002070	FCBL-CC 1020	10 20	704x1360x750	614x1230	32	58.5	0.73
607002080	FCBL-CC 1025	10 25	704x1670x750	614x1540	40	75	0.9
607002090	FCBL-CC 1030	10 30	704x1975x750	614x1845	48	82.5	1.06
607002100	FCBL-CC 1510	15 10	1013x744x750	923x614	24	45	0.58
607002110	FCBL-CC 1520	15 20	1013x1360x750	923x1230	48	75	1.05
607002120	FCBL-CC 1530	15 30	1013x1975x750	923x1845	72	110	1.53
607002130	FCBL-CC 2010	20 10	1318x744x750	1228x614	32	53	0.75
607002140	FCBL-CC 2015	20 15	1318x1055x750	1228x925	48	80.5	1.06
607002150	FCBL-CC 2020	20 20	1318x1360x750	1228x1228	64	91.5	1.37
607002160	FCBL-CC 2025	20 25	1318x1670x750	1228x1540	80	118	1.68
607002170	FCBL-CC 2030	20 30	1318x1975x750	1228x1845	96	128.5	1.99
607002180	FCBL-CC 2510	25 10	1677x744x750	1537x614	40	65	0.95
607002190	FCBL-CC 2520	25 20	1677x1360x750	1537x1230	80	111	1.74
607002200	FCBL-CC 2530	25 30	1677x1975x750	1537x1845	120	157.5	2.53
607002210	FCBL-CC 3010	30 10	1982x744x750	1842x614	48	72.5	1.13
607002220	FCBL-CC 3015	30 15	1982x1055x750	1842x925	72	111	1.6
607002230	FCBL-CC 3020	30 20	1982x1360x750	1842x1230	96	124.5	2.06
607002240	FCBL-CC 3025	30 25	1982x1670x750	1842x1540	120	161.5	2.53
607002250	FCBL-CC 3030	30 30	1982x1975x750	1842x1842	144	175	2.99

Other dimensions and arrangements available on request.

Ed. 2006/07

Modular Range of Filter Housings

ADVANTAGES

- Easy to install
- Modular construction
- No tools needed to change filters
- Gasket to seal between door and filter housing
- Clamping device for the filter
- Stable and secure design

CAMFIL hints! *Changing filters is simple using a hinged door equiped with quick release handles. The hinges are located on the at the air outlet side to make filter change easy even when there are space limitations.*

camfil FARR

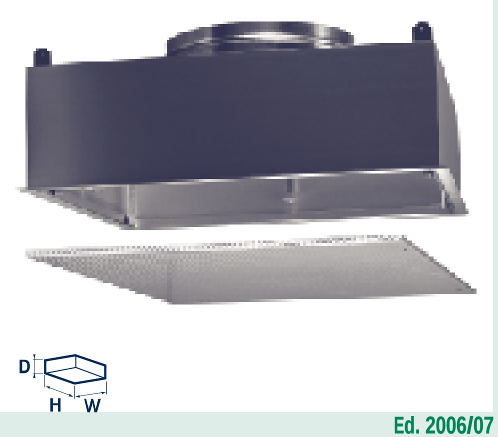
As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

FCBL-CS

Housing: Galvinised steel.
Filter: Bonded and Granualr Carbon Panels.
Standard Carbon: For odours and VOCs.
Impregnated Carbon: For gases as H2S, SO2, NH3.
Alternative: Possibility to switch the housings 180° (flexibility to access from left or right side).
Please note: Stainless steel version is also available.

Reference	Type	Model	Exterior dimensions (WxHxD) mm	Interior dimensions (WxH) mm	Number of Carbon panels	Unit weight kg	Unit volume m^3
611002040	FCBL-CS 1005	10 05	704x439x750	614x309	3	25.0	0.24
611002050	FCBL-CS 1010	10 10	704x744x750	614x614	6	32.5	0.40
611002060	FCBL-CS 1015	10 15	704x1055x750	614x925	9	51.5	0.57
611002070	FCBL-CS 1020	10 20	704x1360x750	614x1230	12	57.5	0.73
611002080	FCBL-CS 1025	10 25	704x1670x750	614x1540	15	73.5	0.90
611002090	FCBL-CS 1030	10 30	704x1975x750	614x1845	18	85.0	1.06
611002130	FCBL-CS 2010	20 10	1318x744x750	1228x614	12	51.5	0.75
611002140	FCBL-CS 2015	20 15	1318x1055x750	1228x925	18	84.0	1.06
611002150	FCBL-CS 2020	20 20	1318x1360x750	1228x1228	24	89.0	1.37
611002160	FCBL-CS 2025	20 25	1318x1670x750	1228x1540	30	117.5	1.68
611002170	FCBL-CS 2030	20 30	1318x1975x750	1228x1845	36	126.0	1.99
611002210	FCBL-CS 3010	30 10	1982x744x750	1842x614	18	73.5	1.13
611002220	FCBL-CS 3015	30 15	1982x1055x750	1842x925	21	111.0	1.60
611002230	FCBL-CS 3020	30 20	1982x1360x750	1842x1230	36	121.5	2.06
611002240	FCBL-CS 3025	30 25	1982x1670x750	1842x1540	45	162.0	2.53
611002250	FCBL-CS 3030	30 30	1982x1975x750	1842x1845	54	172.0	2.99

Other dimensions and arrangements available on request.



Ed. 2006/07

ADVANTAGES

- Quick and easy installation of HEPA / ULPA filters
- Positive clamping mechanism
- Leak free construction
- Support points for connection to steelwork
- Light weight
- Flush mounted diffuser-easy to clean

☺ ***CAMFIL hints!** Pre filters in a variety of grades can be selected to better protect the HEPA filter. For maximum lifetime use extended surface pleated filters G4 to F7*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

SOFDISTRI - Terminal Filter Housing

STANDARD VERSION

Applications: Clean areas with supply and extract systems
Type: Terminal housing for HEPA/ULPA filters
Mounting: Positions for attachment to supporting steelwork
Construction: Anodized Aluminium frame, GI or ALU inlet cover

Filter Type: HEPA and ULPA
Filter Mounting: Quick filter change using pivoting clamps
Connection: Connection from top, 305mm or 250mm collar
Diffuser: GI, ALU, SS or Powder Coated GI perforated seet

Reference	Type	Model	Exterior dimensions (WxHxD) mm	Filter dimensions (WxHxD) mm	Unit weight kg	Unit volume m^3
4102002	Sofdistri (Top entry)	TFT/5/5/1(A1)	594 x 594 x 175	514 x 514 x 66	9.7	0.11
4102003	Sofdistri (Top entry)	TFT/5/11/1(A1)	1194 x 594 x 175	1114 x 514 x 66	16.3	0.22

Other dimensions, finishes & different option are available

Filter Housings and Systems

Ed. 2006/07

ADVANTAGES

- Quick and easy installation of HEPA / ULPA filters
- Positive clamping mechanism
- Leak free construction
- Support points for connection to steelwork
- Light weight

☺ ***CAMFIL hints!*** *Pre filters in a variety of grades can be selected to better protect the HEPA filter. For maximum lifetime use extended surface pleated filters G4 to F7*

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

CPXRG - Terminal Filter Housing

STANDARD VERSION

Applications: Clean areas with supply and extract systems
Type: Terminal housing for HEPA filters systems
Mounting: Positions for attachment to supporting steelwork
Construction: Anodized Aluminium frame

Filter Type: HEPA
Filter Mounting: Quick filter change using pivoting clamps
Connection: Connection from top, 305mm or 250mm collar

Reference	Type	Housing dimensions (WxHxD) mm	Filter dimensions (WxHxD) mm	Unit weight kg	Unit volume m^3
118995001	4CPX-24242	600 x 600 x 140	554 x 554 x 77	4.6	0.05
118994001	4CPX-24362	905 x 600 x 140	859 x 554 x 77	6.6	0.08
118992001	4CPX-24482	1210 x 600 x 140	1164 x 554 x 77	8.6	0.10

Other dimensions, finishes & different option are available

Ed. 2006/07

Rigid Compact Filter

ADVANTAGES

- Contact free filter change
- Manual tension-regulating filter buttress-thread screws
- Fast, secure filter installation
- Seal, welded, solid design
- Filter tightness pressure 15Nm
- Spiro and flanged type

☺ ***Camfil hints!*** *Health: the UNICLIMA "Air Conditioning & Health" Guide and EUROVENT 12/1-92 recommend 85% opa (F7) entering air-conditioning systems.*

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

CAMBOX

Housing: Epoxy coated casing
Filter: Absolute, Micretain and Airopac
Please note: Stainless steel version is also available
Accessories: Safe change bag, monometers

Reference	Type	Housing dimensions (WxHxD) mm	Filter dimensions (WxHxD) mm	Unit weight kg	Unit volume m^3
70500104	1000 spiro, painted	685 x 710 x 610	610 X 610 X 292	44	0.296
70500110	1000 flanges, painted	685 x 710 x 610	610 X 610 X 292	44	0.296
70500105	1000 spiro, 1.4301	685 x 710 x 610	610 X 610 X 292	44	0.296
70500111	1000 flanges, 1.4301	685 x 710 x 610	610 X 610 X 292	44	0.296

CAMGEL - Fluid Seal Ceiling System

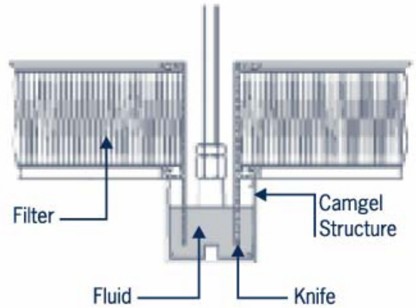
Ed. 2006/07

Applications: Clean rooms with vertical laminar airflow, pharmaceutical industry, microelectronic industry
Type: Modular ceiling mounting system
Filters: To suit knife edge filters K or LS

ADVANTAGES

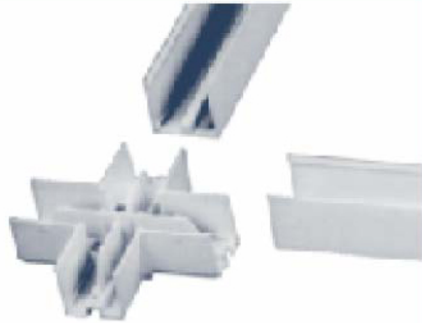
- Fluid seal system
- No tightening or filter clamping required
- No tools needed to change filters
- Quick and easy to install

☺ ***Camfil hints!*** *To ensure the expected operating life is achieved, the very high efficiency filters must be protected by effective OPACIMETRIC prefilters (F7/F8) or higher if necessary*



The fluid joint is perfectly leak free

NO CLAMPING NEEDED



QUICK & EASY TO ASSEMBLE

6 BASIC COMPONENTS ARE ENOUGH TO CONSTRUCT A CEILING SYSTEM

Suspension Section


Lighting Section


Standard Section


FRAMES

CORNER PROFILE


'T' PROFILE


'X' PROFILE


CONNECTIONS

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Ed. 2006/07

High Security
Safe Change Filter Casing

ADVANTAGES

- Contact free filter change
- Automatic tension-regulating filter clamping device
- Fast, secure filter installation, lever operated
- Optional filter seal seating test as per DIN 1946, Part 4
- Sealed, welded, solid design
- Tightness class B as per EN 1866 at 5000 Pa
- Ready flanged
- CamSafe connecting pieces can be supplied in various designs

camfil FARR

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

CAMSAFE

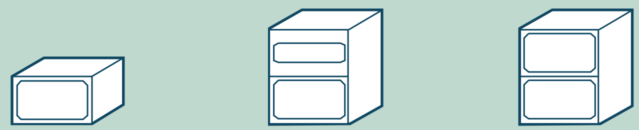
Application: CamSafe chambers are used to separate radioactive, toxic or bacterial particles and gases and provide maximum safety for the operator.
Areas of use include laboratories, isolation wards and the pharmaceutical industry.
The casings can be joined together so that multi-stage filter systems with a volume flow of up to 24,000 m /h can be achieved.
Epoxy coated casing: Epoxy resin coating in RAL 9010 which is capable of being decontaminated, clamping device made from high-grade steel 1.4301
Steel casing: Manufactured in high grade steel 1.4301
Standard design: Material thickness 2 mm, flange drilled ready for operation, service cover with male thread hand knobs, changing bag, support shelf for contact free filter changing, automatic tension-regulating filter clamping device.
Options: Filter seal seating test device in accordance with DIN 1946 Part 4, pressure compensation device and pressure check points

Filter cartridges: Prefilter P1: 610 x 610 x 47 mm
Prefilter P2: 610 x 610 x 292 mm
Main filter: 610 x 610 x 292 mm
All main filters come equipped with straps to aid with handling, enabling them to be changed easily.
The filters can be supplied with a variety of gaskets to suit the application.
The casing is suitable for different classes of filter, suitable for dealing with gases or particle contamination.
Accessories: Safe change bags, manometers and material for the flanged joints supplied on request

Reference	Type	Dimensions (W x H x D*) mm	Dimensions prefilter (W x H x D) mm	Dimensions second filter (W x H x D) mm	Unit weight kg	Unit volume m³
5339.11.00	Camsafe 1000, painted	730x535x725 (+ 90*)	-	610x610x292	44	0.283
5339.31.00	Camsafe P1/1000, painted	730x790x725 (+ 90*)	610x610x47	610x610x292	69	0.418
5339.21.00	Camsafe P2/1000, painted	730x1020x725 (+ 90*)	610x610x292	610x610x292	89	0.539
5339.11.01	Camsafe 1000 1.4301	730x535x725 (+ 90*)	-	610x610x292	44	0.283
5339.31.01	Camsafe P1/1000 1.4301	730x790x725 (+ 90*)	610x610x47	610x610x292	69	0.418
5339.21.01	Camsafe P2/1000 1.4301	730x1020x725 (+ 90*)	610x610x292	610x610x292	89	0.539

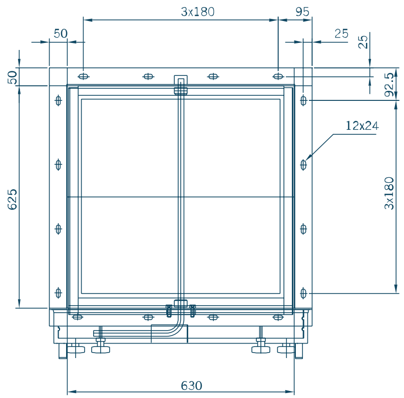
* incl. male thread hand knobs + 90 mm. Allow access of approximately 1m to change the filter.

CAMSAFE - TYPES

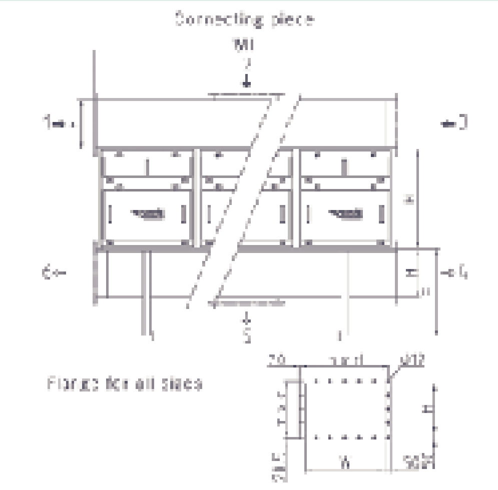


Camsafe 1000 | Camsafe P1 / 1000 | Camsafe P2 / 1000

CAMSAFE FLANGE DIMENSIONS



Filter Housings and Systems



Ed. 2006/07

High Security Safe Change Filter Casing

ADVANTAGES

- Sealed, welded, solid design
- Flange, drilled, ready for operation

CAMSAFE – Connecting Ducts

Application: CamSafe connecting ducts are used in conjunction with CamSafe casings and can be used for volume flows of up to 24,000 m /h.

Epoxy coated connecting ducts: White epoxy resin coating which is capable of being decontaminated.

Steel connecting ducts: Manufactured in high grade steel 1.4301

Standard design: Sheet thickness 2 mm, flange, drilled ready for operation, flange width: 50 mm

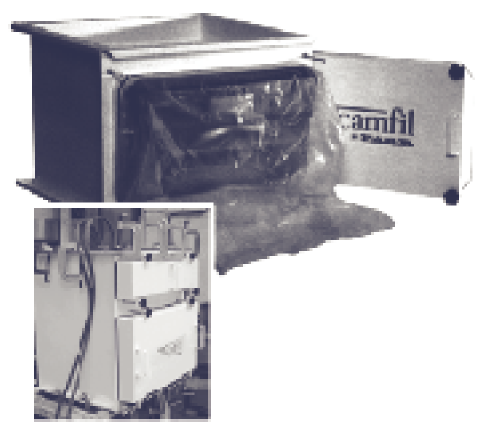
Variations: 1 - 3: upper connecting piece, horizontal flow through
4 - 6: lower connecting piece, incl. feet, horizontal flow through
Note: connecting piece sizes 5 and 6 are supplied separately

Option: Ready assembled CamSafe filter banks on request

Article number	Type	Camsafe filter chamber, number (parallel)	Dimensions (Bh) mm	Dimensions F mm	Flange dimensions, internal: (W x H) mm	Unit weight kg	Unit volume m³
5339.10.00	Connecting piece 1-1000/1-3, painted	1	840	700	625x250	25	0.20
5339.12.00	Connecting piece 2-1000/1-3, painted	2	1625	700	625x320	45	0.48
5339.13.00	Connecting piece 3-1000/1-3, painted	3	2410	700	625x390	70	0.85
5339.14.00	Connecting piece 4-1000/1-3, painted	4	3195	700	625x490	100	1.35
5339.15.00	Connecting piece 5-1000/1-3, painted	5	4017	700	625x590	155	2.00
5339.16.00	Connecting piece 6-1000/1-3, painted	6	4802	800	625x695	181	2.75
5339.10.02	Connecting piece 1-1000/4-6, painted	1	840	700	625x250	34	0.40
5339.12.02	Connecting piece 2-1000/4-6, painted	2	1625	700	625x320	55	0.80
5339.13.02	Connecting piece 3-1000/4-6, painted	3	2410	700	625x390	79	1.20
5339.14.02	Connecting piece 4-1000/4-6, painted	4	3195	700	625x490	114	1.60
5339.15.02	Connecting piece 5-1000/4-6, painted	5	4017	700	625x590	172	2.20
5339.16.02	Connecting piece 6-1000/4-6, painted	6	4802	800	625x695	200	2.95
5339.10.01	Connecting piece 1-1000/1-3 1.4301	1	840	700	625x250	25	0.20
5339.12.01	Connecting piece 2-1000/1-3 1.4301	2	1625	700	625x320	45	0.48
5339.13.01	Connecting piece 3-1000/1-3 1.4301	3	2410	700	625x390	70	0.85
5339.14.01	Connecting piece 4-1000/1-3 1.4301	4	3195	700	625x490	100	1.35
5339.15.01	Connecting piece 5-1000/1-3 1.4301	5	4017	700	625x590	155	2.00
5339.16.01	Connecting piece 6-1000/1-3 1.4301	6	4802	800	625x695	181	2.75
5339.10.03	Connecting piece 1-1000/4-6 1.4301	1	840	700	625x250	34	0.40
5339.12.03	Connecting piece 2-1000/4-6 1.4301	2	1625	700	625x320	55	0.80
5339.13.03	Connecting piece 3-1000/4-6 1.4301	3	2410	700	625x390	79	1.20
5339.14.03	Connecting piece 4-1000/4-6 1.4301	4	3195	700	625x490	114	1.60
5339.15.03	Connecting piece 5-1000/4-6 1.4301	5	4017	700	625x590	172	2.20
5339.16.03	Connecting piece 6-1000/4-6 1.4301	6	4802	800	625x695	200	2.95

As part of our continuous improvement, Camfil Farr reserve the right to change specifications without notice

Filter Housings and Systems



Ed. 2006/07

CAMSAFE - Bag-in bag-out safe change security duct housing

P3 & P4 laboratories and confinement areas

Laboratory tested

ADVANTAGES

- tightness qualified at 5000 Pa
- Local gasket seat maximum penetration <10-4 (0.0%)

☺ ***CAMFIL hints!*** *Changing filters is simple using a hinged door equiped with quick release handles. The hinges are located on the at the air outlet side to make filter change easy even when there are space limitations.*

camfil FARR

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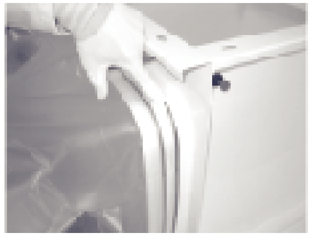
Simple, easy and tool free filter maintenance

Ergonomic door whells easy to use with gloves

Door with security device to forbid closing if filter is not clamped

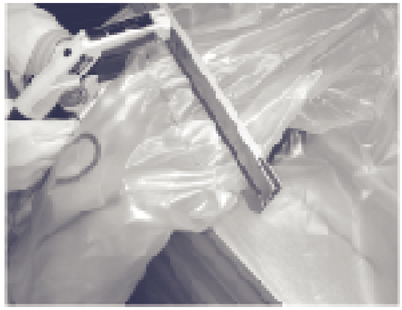
Fast clamping by the mean of camshaft, set for life, with compensating spring



Double grooved bag collar to secure filter change

Filter cell changing without confinement break so without contamination risk for operator and environment.

* Filter change through a tight and thick plastic bag with weldable appendice forresiduary of previous bag evacuation.



Type : Modular, to assemble safety duct housing.
Specially designed for dangerous materials filtration.
Vertical or horizontal service.
Design : 2mm thick steel sheet,
tight continuous welding on whole housing including gasket seat.
Finish : RAL9010, th. 70um epoxy painted.
Smooth cleanable surfaces (available in 304 stainless steel)

For filters : 292mm deep filter cells, aerosal type
OPAKAIR, SOFILAIR and molecular type ACTICARB.
Connecting : through square drilled flanges.
Applications : Microbiological safety laboratories and confinment areas type P3 and P4, chemical and pharmaceutical.
Compatible with high or very high efficiency filter cells and activated carbon filters

NOTES

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