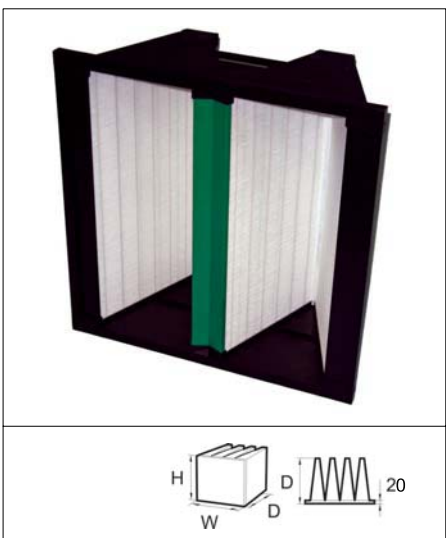


Compact Filter

Opakfil 2V



Advantages

- Integrity of a rigid minipleat performance in an energy saving lightweight design.
- No metal parts
- Incinerable
- Unaffected by varying airflow, excellent for VAV systems

Description: High efficiency, V-style air filter in an all plastic enclosing frame.

Typical applications: Built-up filter banks, rooftops, split systems, free-standing units, package systems and air handlers.

EN 779:2002 filter class: F6, F7, F8.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14.

Media: Microfine glass media in a mini-pleat design formed into multiple V-bank media packs.

Frame: ABS.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: Maximum continuous operating temperature of 70° C.

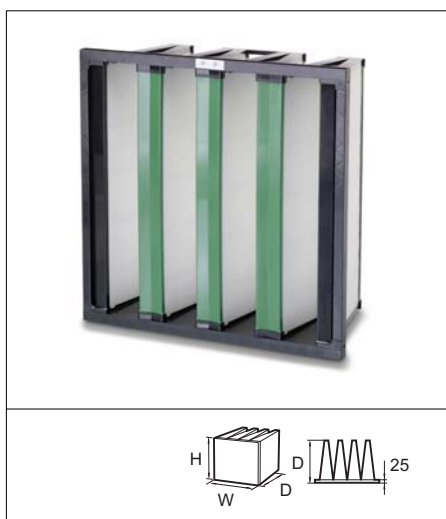
Fire rating: UL 900 Class 2.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air Flow / Pressure drop m ³ /hr/Pa	Unit weight kg	Unit Volume m ³
2480001	Opakfil 2V-242412-60	594x594x280	F6	9.6	3400/65	3.3	0.13
2480002	Opakfil 2V-242012-60	594x492x280	F6	7.6	2800/65	2.8	0.13
2480003	Opakfil 2V-241212-60	594x289x280	F6	4.2	1700/74	2.1	0.06
2480004	Opakfil 2V-242412-90	594x594x280	F7	9.6	3400/109	3.3	0.13
2480005	Opakfil 2V-242012-90	594x492x280	F7	7.6	2800/112	2.8	0.13
2480006	Opakfil 2V-241212-90	594x289x280	F7	4.2	1700/129	2.1	0.06
2480007	Opakfil 2V-242412-95	594x594x280	F8	9.6	3400/140	3.3	0.13
2480008	Opakfil 2V-242012-95	594x492x280	F8	7.6	2800/143	2.8	0.13
2480009	Opakfil 2V-241212-95	594x289x280	F8	4.2	1700/165	2.1	0.06

*25mm header frame is available on request.

Compact Filter

Opakfil Green



Advantages

- Long operating life
- Light and robust
- Large surface area
- Incinerable
- Certified performance optimised for LCC
- No metal parts

Application: Air conditioning applications and prefiltration for clean rooms.

Type: High efficiency, incinerable filter.

Frame: ABS.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

EN 779:2002 filter class: F6, F7, F8, F9.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14, MERV 15.

Recommended final pressure drop: 450 Pa (suggested economical change point 350 Pa).

Temperature: 70°C maximum in continuous service.

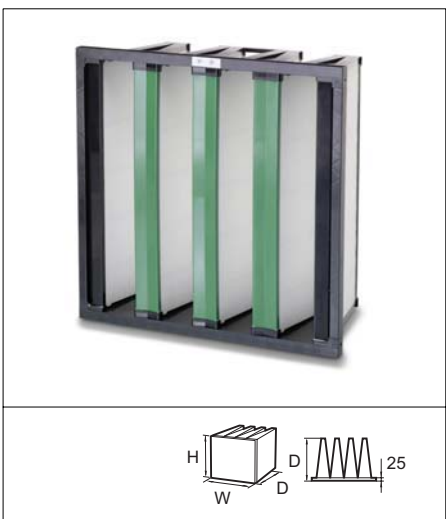
Mounting system: Front and side access housing and frames are available, Type 8 and FC housings.

Fire rating: UL 900 Class 2.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2400001	3OPGHF-242412-60	592 x 592 x 290	F6	19	4250/100	5	0.13
2400002	3OPGHF-242012-60	592 x 490 x 290	F6	15	3400/100	4	0.13
2400003	3OPGHF-241212-60	592 x 287 x 290	F6	9	2125/110	3	0.06
2400004	3OPGHF-242412-90	592 x 592 x 290	F7	19	4250/110	5	0.13
2400005	3OPGHF-242012-90	592 x 490 x 290	F7	15	3400/110	4	0.13
2400006	3OPGHF-241212-90	592 x 287 x 290	F7	9	2125/135	3	0.06
2400007	3OPGHF-242412-95	592 x 592 x 290	F8	19	4250/130	5	0.13
2400008	3OPGHF-242012-95	592 x 490 x 290	F8	15	3400/130	4	0.13
2400009	3OPGHF-241212-95	592 x 287 x 290	F8	9	2125/150	3	0.06
2400010	3OPGHF-242412-98	592 x 592 x 290	F9	19	4250/160	5	0.13
2400011	3OPGHF-242012-98	592 x 490 x 290	F9	15	3400/160	4	0.13
2400012	3OPGHF-241212-98	592 x 287 x 290	F9	9	2125/160	3	0.06

Compact Filter

Opakfil CC



Advantages

- Robust construction
- Long operating life
- Light and robust
- Large surface area
- Incinerable
- No metal parts

Application: Air conditioning applications and prefiltration for clean rooms.

Type: High efficiency, incinerable filter.

Frame: ABS.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

EN 779:2002 filter class: F6, F7, F8, F9.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14, MERV 15.

Recommended final pressure drop: 450 Pa (suggested economical change point 350 Pa).

Temperature: 70°C maximum in continuous service.

Mounting system: Front and side access housing and frames are available, Type 8 and FC housings.

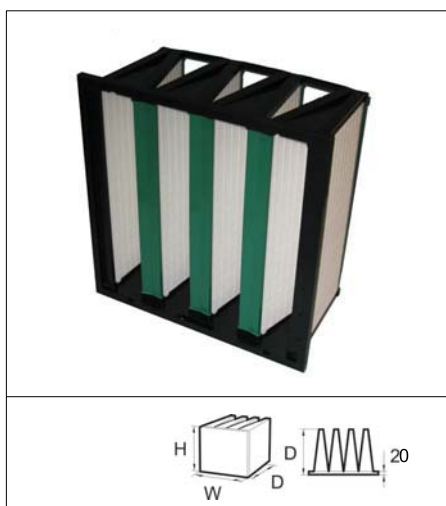
Fire rating: UL 900 Class 2.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2410001	3OPCCHF-242412-60	592x592x290	F6	14.3	3400/92	5	0.13
2410002	3OPCCHF-242012-60	592x490x290	F6	11.3	2800/95	4	0.13
2410003	3OPCCHF-241212-60	592x287x290	F6	6.8	1700/92	3	0.06
2410004	3OPCCHF-242412-90	592x592x290	F7	14.3	3400/96	5	0.13
2410005	3OPCCHF-242012-90	592x490x290	F7	11.3	2800/99	4	0.13
2410006	3OPCCHF-241212-90	592x287x290	F7	6.8	1700/96	3	0.06
2410007	3OPCCHF-242412-95	592x592x290	F8	14.3	3400/116	5	0.13
2410008	3OPCCHF-242012-95	592x490x290	F8	11.3	2800/119	4	0.13
2410009	3OPCCHF-241212-95	592x287x290	F8	6.8	1700/136	3	0.06
2410010	3OPCCHF-242412-98	592x592x290	F9	14.3	3400/160	5	0.13
2410011	3OPCCHF-242012-98	592x490x290	F9	11.3	2800/165	4	0.13
2410012	3OPCCHF-241212-98	592x287x290	F9	6.8	1700/180	3	0.06

* 20mm header frame is available on request.

Compact Filter

Durafil® ES



Advantages

- Longest lasting high efficiency filter
- Lowest Life-Cycle Cost (LCC) filter available
- Built-in spacer for pleated prefilters
- Lowest initial pressure drop of any ASHRAE grade high efficiency air filter
- Fine fiber ensures that filter will maintain its efficiency throughout its life in the system

Description: High capacity, high efficiency, V-style air filter in an all plastic enclosing frame.

Typical applications: Built-up filter banks, rooftops, split systems, free-standing units, package systems and air handlers.

EN 779:2002 filter class: F6, F7, F8, F9.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14, MERV 15.

Media: Microfine glass media in a minipleat design formed into multiple V-bank media packs.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

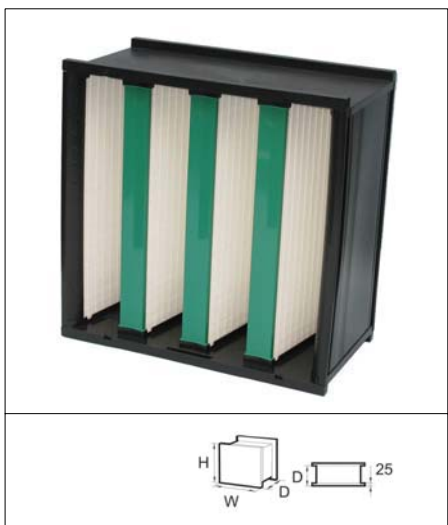
Temperature: Maximum continuous operating temperature of 70° C.

Fire rating: UL 900 Class 2.

Reference	Model	Dimension (H x W x D) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa
2490001	DU4V-ES-242412-F6	594 x 594 x 315	F6	18.3	3400/55
2490002	DU4V-ES-202412-F6	492 x 594 x 315	F6	15.0	2550/55
2490003	DU4V-ES-122412-F6	289 x 594 x 315	F6	8.3	1700/55
2490004	DU4V-ES-242412-F7	594 x 594 x 315	F7	18.3	3400/70
2490005	DU4V-ES-202412-F7	492 x 594 x 315	F7	15.0	2550/70
2490006	DU4V-ES-122412-F7	289 x 594 x 315	F7	8.3	1700/70
2490007	DU4V-ES-242412-F8	594 x 594 x 315	F8	18.3	3400/78
2490008	DU4V-ES-202412-F8	492 x 594 x 315	F8	15.0	2550/78
2490009	DU4V-ES-122412-F8	289 x 594 x 315	F8	8.3	1700/78
2490010	DU4V-ES-242412-F9	594 x 594 x 315	F9	18.3	3400/160
2490011	DU4V-ES-202412-F9	492 x 594 x 315	F9	15.0	2550/160
2490012	DU4V-ES-122412-F9	289 x 594 x 315	F9	8.3	1700/160

Compact Filter

Durafil® ESB



Advantages

- Dual headers for front loading filter installations
- Lowest Life-Cycle Cost (LCC) filter available
- Fine fiber ensures that the filter will maintain efficiency throughout its life in the system
- Lowest initial pressure drop of any dual header box style air filter
- Built-in spacer for pleated prefilters

Description: High capacity, high efficiency, V-style air filter in an all plastic enclosing frame.

Typical applications: Built-up filter banks, rooftops, split systems, free-standing units, package systems and air handlers that require a filter with dual headers.

EN 779:2002 filter class: F6, F7, F8, F9.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14, MERV 15.

Media: Microfine glass media in a mini-pleat design formed into multiple V-bank media packs.

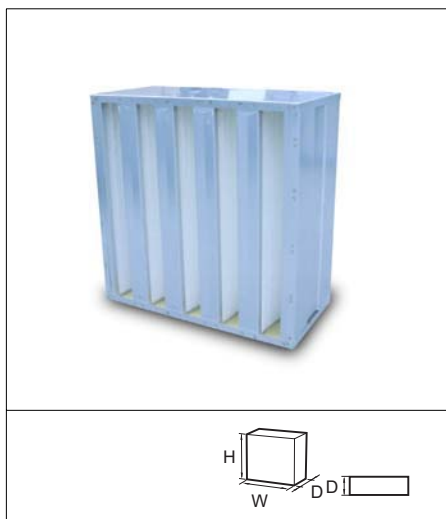
Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: Maximum continuous operating temperature of 70° C.

Fire rating: UL 900 Class 2.

Reference	Model	Dimension (H x W x D) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa
2495001	DU4V-ESB-242412-F6	594 x 594 x 315	F6	18.3	3400/65
2495002	DU4V-ESB-242012-F6	492 x 594 x 315	F6	15.0	2550/65
2495003	DU4V-ESB-241212-F6	289 x 594 x 315	F6	8.3	1700/65
2495004	DU4V-ESB-242412-F7	594 x 594 x 315	F7	18.3	3400/80
2495005	DU4V-ESB-242012-F7	492 x 594 x 315	F7	15.0	2550/80
2495006	DU4V-ESB-241212-F7	289 x 594 x 315	F7	8.3	1700/80
2495007	DU4V-ESB-242412-F8	594 x 594 x 315	F8	18.3	3400/85
2495008	DU4V-ESB-242012-F8	492 x 594 x 315	F8	15.0	2550/85
2495009	DU4V-ESB-241212-F8	289 x 594 x 315	F8	8.3	1700/85
2495010	DU4V-ESB-242412-F9	594 x 594 x 315	F9	18.3	3400/155
2495011	DU4V-ESB-242012-F9	492 x 594 x 315	F9	15.0	2550/155
2495012	DU4V-ESB-241212-F9	289 x 594 x 315	F9	8.3	1700/155

OpakAir



Advantages

- Large surface area
- Up to 6000 m³/hr air flow
- Less frequent changes
- Low pressure drop

Application: High air flow air conditioning and process air applications.

Type: High capacity compact filter.

Case: Galvanised steel.

Gasket: Endless polyurethane.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

EN 779:2002 filter class: F7, F8.

ASHRAE 52.2:1999 filter class: MERV 13, MERV 14.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

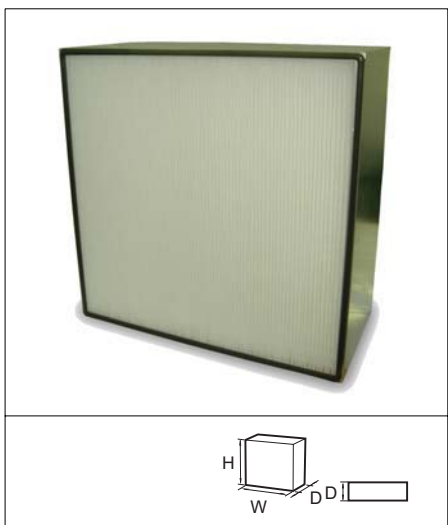
Temperature: 70°C maximum in continuous service.

Mounting System: Front and side access housings and safechange systems are available.

Fire rating: DIN 53438 Class F1.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2420003	Opakair-90	610 x 610 x 292	F7	21.4	4500/105	21	0.13
2420004	Opakair-90	305 x 610 x 292	F7	14	2250/105	12	0.07
2420005	Opakair-95	610 x 610 x 292	F8	21.4	4500/130	21	0.13
2420006	Opakair-95	305 x 610 x 292	F8	8.6	2250/130	12	0.07

Airopac® 3GGM



Advantages

- Large surface area
- Savings in operating costs
- Less frequent changes
- Ultra compact
- High dust holding capacity

Application: Air conditioning or industrial processing systems and for mini air conditioning systems, individual modules.

Type: High efficiency compact filter.

Frame: Galvanised steel.

Media: Glass fibre paper.

Separator: Hot-melt beads.

EN 779:2002 filter class: F6, F7 and F8.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13 and MERV 14.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

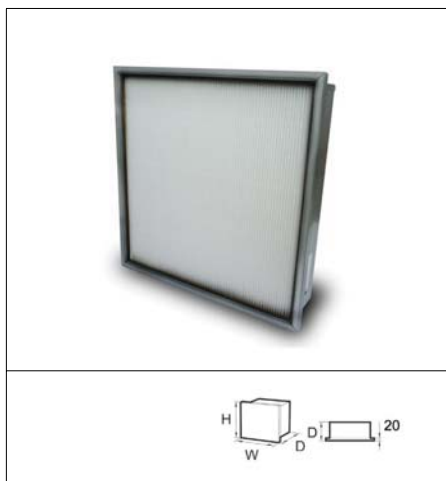
Temperature: 70°C maximum in continuous service.

Fire rating: DIN 53438 Class F1.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air Flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2100001	3GGM-24246-60	610 x 610 x 150	F6	12.3	3400/66	6.8	0.06
2100002	3GGM-20246-60	508 x 610 x 150	F6	10.3	2850/67	5.7	0.06
2100003	3GGM-12246-60	305 x 610 x 150	F6	6.1	1700/68	4	0.03
2100004	3GGM-20206-60	508 x 508 x 150	F6	8.6	2375/67	5	0.06
2100009	3GGM-24246-90	610 x 610 x 150	F7	12.3	3400/100	6.8	0.06
2100010	3GGM-20246-90	508 x 610 x 150	F7	10.3	2850/100	5.7	0.06
2100011	3GGM-12246-90	305 x 610 x 150	F7	6.1	1700/101	4	0.03
2100012	3GGM-20206-90	508 x 508 x 150	F7	8.6	2375/100	5	0.06
2100017	3GGM-24246-95	610 x 610 x 150	F8	12.3	3400/131	6.8	0.06
2100018	3GGM-20246-95	508 x 610 x 150	F8	10.3	2850/132	5.7	0.06
2100019	3GGM-12246-95	305 x 610 x 150	F8	6.1	1700/133	4	0.03
2100020	3GGM-20206-95	508 x 508 x 150	F8	8.6	2375/132	5	0.08

* Other sizes are available on request.

Airopac® 3GGMHF



Advantages

- Large surface area
- Savings in operating costs
- Less frequent changes
- Ultra compact
- High dust holding capacity

Application: Air conditioning or industrial processing systems and for mini air conditioning systems, individual modules.

Type: High efficiency compact filter.

Frame: Galvanised steel.

Media: Glass fibre paper.

Separator: Hot-melt beads.

EN 779:2002 filter class: F6, F7 and F8.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13 and MERV 14.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

Fire rating: DIN 53438 Class F1.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air Flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2120001	3GGMHF-24245-60	592x592x135	F6	10.3	3400/86	6.8	0.07
2120002	3GGMHF-20245-60	490x592x135	F6	8.3	2850/91	5.7	0.07
2120003	3GGMHF-12245-60	287x592x135	F6	4.5	1700/105	3.8	0.04
2120004	3GGMHF-20205-60	490x490x135	F6	6.8	2375/94	5	0.07
2120005	3GGMHF-24245-90	592x592x135	F7	10.3	3400/125	6.8	0.07
2120006	3GGMHF-20245-90	490x592x135	F7	8.3	2850/131	5.7	0.07
2120007	3GGMHF-12245-90	287x592x135	F7	4.5	1700/149	3.8	0.04
2120008	3GGMHF-20205-90	490x490x135	F7	6.8	2375/135	5	0.07
2120009	3GGMHF-24245-95	592x592x135	F8	10.3	3400/164	6.8	0.07
2120010	3GGMHF-20245-95	490x592x135	F8	8.3	2850/172	5.7	0.07
2120011	3GGMHF-12245-95	287x592x135	F8	4.5	1700/195	3.8	0.04
2120012	3GGMHF-20205-95	490x490x135	F8	6.8	2375/177	5	0.07

* other sizes are available on request.

Ecopleat Green



Advantages

- Large surface area
- Long operating life
- Ultra compact
- High dust holding capacity
- Less frequent changes

Application: Air conditioning or industrial processing systems and for mini air conditioning systems, individual modules, ventilation equipment.

Type: High efficiency compact filter.

Frame: Plastic frame.

Media: Wet-laid glass fibre paper.

Separator: Hot melt glue.

Sealant: Polyurethane.

EN 779:2002 filter class: F6, F7, F8.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14.

Recommended final pressure drop: 350 Pa.

Temperature: 70°C.

Relative humidity: 100% RH.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air flow/ pressure drop m ³ /h/Pa	Unit weight kg	Unit volume m ³
23465200C	3GPPS-12242-F6	287x592x48	F6	2.9	1500/85	2	0.01
23665400C	3GPPS-20242-F6	490x592x48	F6	4.9	2450/85	2.5	0.015
23465500C	3GPPS-24242-F6	592x592x48	F6	5.9	3000/85	3	0.02
23675200C	3GPPS-12242-F7	287x592x48	F7	2.9	1500/140	2	0.01
23675400C	3GPPS-20242-F7	490x592x48	F7	4.9	2450/140	2.5	0.015
23675500C	3GPPS-24242-F7	592x592x48	F7	5.9	3000/140	3	0.02
23685200C	3GPPS-12242-F8	287x592x48	F8	2.9	1500/195	2	0.01
23685400C	3GPPS-20242-F8	490x592x48	F8	4.9	2450/195	2.5	0.015
23485500C	3GPPS-24242-F8	592x592x48	F8	5.9	3000/195	3	0.02
23765200C	3GPPS-12244-F6	287x592x96	F6	4.8	2250/155	3	0.02
23765400C	3GPPS-20244-F6	490x592x96	F6	9.9	3700/155	3.5	0.03
23765500C	3GPPS-24244-F6	592x592x96	F6	11.9	4500/155	4	0.04
23775200C	3GPPS-12244-F7	287x592x96	F7	5.8	2250/185	3	0.02
23775400C	3GPPS-20244-F7	490x592x96	F7	9.9	3700/185	3.5	0.03
23775500C	3GPPS-24244-F7	592x592x96	F7	11.9	4500/185	4	0.04
23785200C	3GPPS-12244-F8	287x592x96	F8	5.8	2250/240	3	0.02
23785400C	3GPPS-20244-F8	490x592x96	F8	9.9	3700/240	3.5	0.03
23785500C	3GPPS-24244-F8	592x592x96	F8	11.9	4500/240	4	0.04

*Other sizes are available on request

Airopac® Green



Advantages

- Low pressure drop
- Water resistant beverage board
- Large surface area
- Incinerable
- Rigid design concept
- High dust holding capacity

Application: Air conditioning applications and preparatory filtration in clean rooms.

Type: High efficiency compact filter.

Frame: Rigid water resistance beverage cardboard.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

EN 779:2002 filter class: F6, F7, F8.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

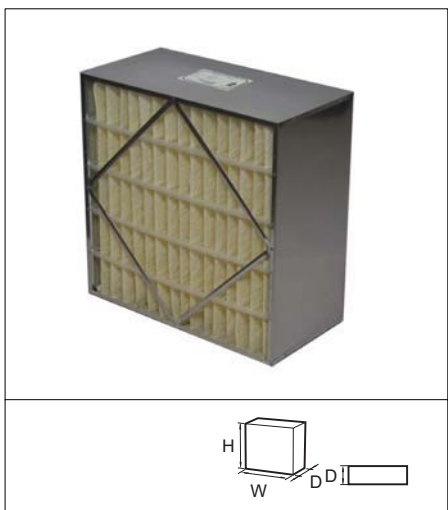
Mounting system: Front and side access housing and frames are available.

Holding frames: Type 8 and FC Housings.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air Flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2700001	3GP-24244-60	594 x 594 x 95	F6	11.8	3400/71	3	0.034
2700002	3GP-20244-60	492 x 594 x 95	F6	9.7	2810/71	2.5	0.028
2700003	3GP-12244-60	289 x 594 x 95	F6	5.7	1645/84	1.6	0.016
2700004	3GP-20204-60	492 x 492 x 95	F6	8	2325/75	2.1	0.023
2700013	3GP-24244-90	594 x 594 x 95	F7	11.8	3400/134	3.1	0.034
2700014	3GP-20244-90	492 x 492 x 95	F7	9.7	2810/138	2.5	0.028
2700015	3GP-12244-90	289 x 594 x 95	F7	5.7	1645/158	1.6	0.016
2700016	3GP-20204-90	492 x 492 x 95	F7	8	2325/142	2.1	0.023
2700025	3GP-24244-95	594 x 594 x 95	F8	11.8	3400/154	3.1	0.034
2700026	3GP-20244-95	492 x 594 x 95	F8	9.7	2810/159	2.5	0.028
2700027	3GP-12244-95	289 x 594 x 95	F8	5.7	1645/179	1.6	0.016
2700028	3GP-20204-95	492 x 492 x 95	F8	8	2325/163	2.1	0.023

Pleated Compact Filter

Riga-Flo



Advantages

- Range of standard sizes
- High efficiency
- Rigid design concept
- Suitable for turbulent airflow

Application: Air conditioning applications.

Type: Rigid pleated filter.

Case: Galvanised steel.

Media: Glass fibre.

EN 779:2002 filter class: F6, F7, F8.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

Holding frames: Front and side access housings and frames are available.

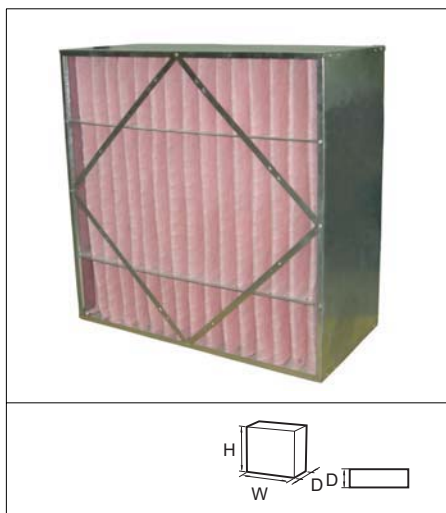
Fire rating: UL 900 Class 2.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unitweight kg	Unit volume m ³
96026001	RF15 CL2 24x24x12	594 x 594 x 292	F6	5.39	3400/78	5.5	0.1
96026005	RF15 CL2 24x12x12	289 x 594 x 292	F6	2.69	1700/78	5.0	0.1
97293001	RF15 CL2 24x24x6	594 x 594 x 149	F6	2.69	2040/50	5.5	0.05
97293005	RF15 CL2 24x12x6	289 x 594 x 149	F6	1.3	1020/50	3.5	0.03
96026002	RF100 CL2 24x24x12	594 x 594 x 292	F7	5.39	3400/103	5.5	0.1
96026006	RF100 CL2 24x12x12	289 x 594 x 292	F7	2.69	1700/103	3.5	0.05
97293002	RF100 CL2 24x24x6	594 x 594 x 149	F7	2.69	2040/108	5.5	0.05
97293015	RF 100 CL2 24x12x6	594 x 292 x 149	F7	2.69	1020/108	5.5	0.03
96026003	RF200 CL2 24x24x12	594 x 594 x 292	F8	5.39	3400/133	5.5	0.1
96026007	RF200 CL2 24x12x12	289 x 594 x 292	F8	2.69	1700/133	3.5	0.05
97293003	RF200 CL2 24x24x6	594 x 594 x 149	F8	2.69	2040/150	5.5	0.05
97293007	RF200 CL2 24x12x6	289 x 594 x 149	F8	1.3	1020/150	3.5	0.03

*Other sizes available on request

*PH version available (with header frame)

Riga-Flo P



Advantages

- Range of standard sizes
- Rigid design concept
- High efficiency
- Suitable for turbulent airflow

Application: Air conditioning applications.

Type: Rigid pleated filter.

Frame: Galvanised steel.

Media: Synthetic.

EN 779:2002 filter class: F7, F8.

ASHRAE 52.2:1999 filter class: MERV 13, MERV 14.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

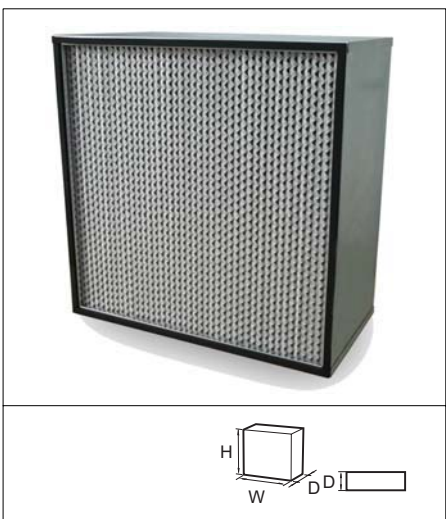
Holding frames: Front and side access housings and frames are available.

Fire rating: UL 900 Class 2.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
122556003	RFP85 CL2 24x24x12	594 x 594 x 292	F7	5.39	3400/70	7.7	0.1
122556013	RFP85 CL2 24x12x12	289 x 594 x 292	F7	2.6	1700/70	4.55	0.05
122556023	RFP85 CL2 24x20x12	492 x 594 x 292	F7	4.37	2822/70	5.77	0.09
122556033	RFP85 CL2 20x20x12	492 x 492 x 292	F7	3.62	2380/70	5.77	0.07
122556004	RFP95 CL2 24x24x12	594 x 594 x 292	F8	5.39	3400/90	7.7	0.1
122556014	RFP95 CL2 24x12x12	289 x 594 x 292	F8	2.6	1700/90	4.55	0.05
122556024	RFP95 CL2 24x20x12	492 x 594 x 292	F8	4.37	2822/90	5.77	0.09
122556034	RFP95 CL2 20x20x12	492 x 492 x 292	F8	3.62	2380/90	5.77	0.07

Pleated Compact Filter

3CPM Aeropac



Advantages

- Robust design
- Fine fibre ensures that filter maintains its efficiency throughout its life in the system
- Large dust holding capacity
- Suitable for variable airflow

Description: High efficiency box style air filter with wet-laid paper style media in an all-metal enclosing frame.

Applications: Built-up filter banks, rooftops, split systems, free-standing units, package systems and air handlers.

Type: Rigid pleated filter.

Frame: Galvanised steel.

EN 779:2002 filter class: F6, F7, F8.

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14.

Media: Microfine glass media formed into full pack depth pleats separated by corrugated aluminum separators.

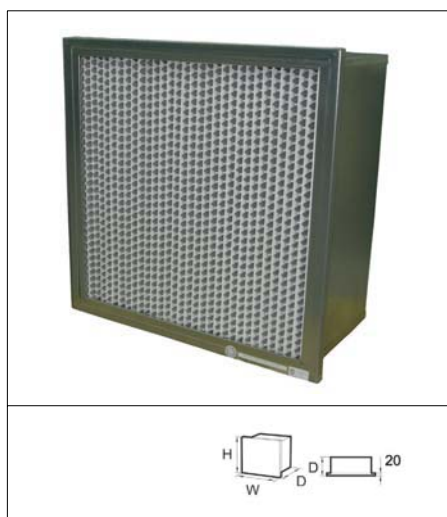
Recommended final pressure drop: 450 Pa (suggested economical change point 250Pa).

Temperature: 70°C.

Fire rating: UL 900 Class 1.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2155001	3CPM-65-242412	592 x 592 x 292	F6	12.3	3400/110	8.6	0.1
2155002	3CPM-65-241212	287 x 592 x 292	F6	5.8	1700/110	6.4	0.05
2156001	3CPM-85-242412	592 x 592 x 292	F7	12.3	3400/147	8.6	0.1
2156002	3CPM-85-241212	287 x 592 x 292	F7	5.8	1700/147	6.4	0.05
2157003	3CPM-95-242412	592 x 592 x 292	F8	12.3	3400/160	8.6	0.1
2157002	3CPM-95-241212	287 x 592 x 292	F8	5.8	1700/160	6.4	0.05
2150002	3CPM-242412-60	610 x 610 x 292	F6	15.7	3400/77	8.6	0.11
2150001	3CPM-122412-60	305 x 610 x 292	F6	7.8	1700/77	6.4	0.05
2151007	3CPM-242412-90	610 x 610 x 292	F7	15.7	3400/114	8.6	0.11
2151008	3CPM-122412-90	305 x 610 x 292	F7	7.8	1700/114	6.4	0.05
2152003	3CPM-242412-95	610 x 610 x 292	F8	15.7	3400/136	8.6	0.11
2152004	3CPM-122412-95	305 x 610 x 292	F8	7.8	1700/136	6.4	0.05

3HCP8 Aeropac



Advantages

- Fine fiber ensures that filter maintains its efficiency throughout its life in the system
- Suitable for variable airflow
- High dust holding capacity
- Robust design

Description: High efficiency box style air filter with wet-laid paper style media in an all-metal enclosing frame.

Applications: Built-up filter banks, rooftops, split systems, free-standing units, package systems and air handlers.

Type: Rigid pleated filter.

Frame: Galvanised steel.

EN 779:2002 filter class: F6, F7, F8. —

ASHRAE 52.2:1999 filter class: MERV 11, MERV 13, MERV 14.

Media: Microfine glass media formed into full pack depth pleats separated by corrugated aluminum.

Recommended final pressure drop: 450 Pa (suggested economical change point 250Pa).

Temperature: Maximum continuous operating temperature of 90° C.

Fire Rating: UL 900 Class 1.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2135001	3HCP8-65-242412 AEROPAC	592 x 592 x 292	F6	10.8	3400/113	8.6	0.1
2135002	3HCP8-65-122412 AEROPAC	287 x 592 x 292	F6	5	1700/113	6.4	0.05
2136001	3HCP8-85-242412 AEROPAC	592 x 592 x 292	F7	10.8	3400/150	8.6	0.1
2136002	3HCP8-85-241212 AEROPAC	287 x 592 x 292	F7	5	1700/150	6.4	0.05
2137001	3HCP8-95-242412 AEROPAC	592 x 592 x 292	F8	10.8	3400/163	8.6	0.1
2137002	3HCP8-95-241212 AEROPAC	287 x 592 x 292	F8	5	1700/163	6.4	0.05
2130002	3CPMHF-122412-60	287 x 592 x 292	F6	5.6	1700/95	6.4	0.05
2130003	3CPMHF-242412-60	592 x 592 x 292	F6	13.1	3400/95	8.6	0.1
2131001	3CPMHF-242412-90	592 x 592 x 292	F7	13.1	3400/134	8.6	0.1
2131002	3CPMHF-122412-90	287 x 592 x 292	F7	5.6	1700/134	6.4	0.05
2132001	3CPMHF-242412-95	592 x 592 x 292	F8	13.1	3400/158	8.6	0.1
2132002	3CPMHF-122412-95	287 x 592 x 292	F8	5.6	1700/158	6.4	0.05

Summary HEPA / ULPA Filters, Class H10 to U17



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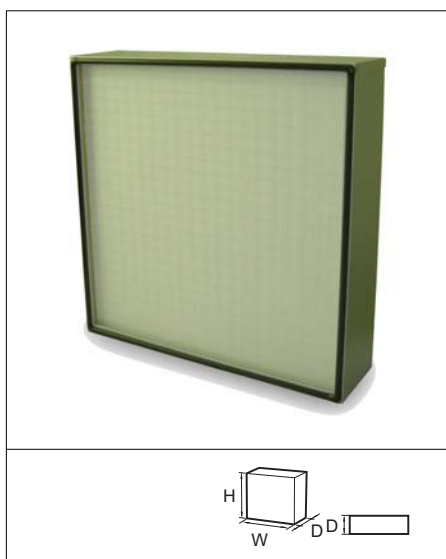


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Micretain MDE11/MXE11/GGE11/TRE11



Advantages

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

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: Endless polyurethane gasket at inlet.

Media: Pleated glass paper.

Separator: Hot melt beads.

Sealant: Polyurethane.

EN 1822 filter class: H11.

MPPS efficiency: ≥ 95%.

DOP efficiency: ≥ 99%.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: Nominal flow rate, otherwise reduction in efficiency.

Temperature: 70°C maximum in continuous service.

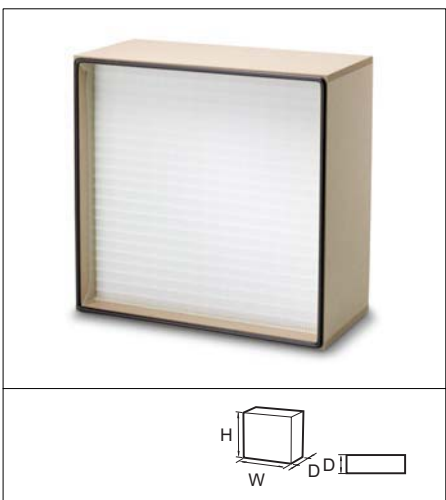
Mounting systems: FCB Housings, Ducts, Diffusers, CAMSAFE.

Fire rating: DIN 53438 Class F1.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
1400501	Micretain	MDE11-1200-10/00	1219 x 610 x 150	H11	17.7	2380/125	18	0.14
1400502	Micretain	MDE11-980-10/00	914 x 610 x 150	H11	13.3	1790/125	15	0.11
1400503	Micretain	MDE11-830-10/00	762 x 610 x 150	H11	11.1	1490/125	13.5	0.09
1400504	Micretain	MDE11-600-10/00	610 x 610 x 150	H11	8.9	1190/125	12	0.07
1400505	Micretain	MDE11-500-10/00	575 x 575 x 150	H11	7.8	1055/125	11	0.07
1400506	Micretain	MDE11-300-10/00	457 x 457 x 150	H11	4.9	660/125	10	0.04
1400507	Micretain	MDE11-220-10/00	305 x 610 x 150	H11	4.4	590/125	6	0.04
1400508	Micretain	MDE11-110-10/00	305 x 305 x 150	H11	2.2	290/125	4	0.02
1400551	Micretain	MXE11-1200-10/00	1219 x 610 x 150	H11	24.8	3120/125	18	0.14
1400552	Micretain	MXE11-980-10/00	914 x 610 x 150	H11	18.6	2335/125	15	0.11
1400553	Micretain	MXE11-830-10/00	762 x 610 x 150	H11	15.5	1950/125	13.5	0.09
1400554	Micretain	MXE11-600-10/00	610 x 610 x 150	H11	12.4	1560/125	12	0.07
1400555	Micretain	MXE11-500-10/00	575 x 575 x 150	H11	11	1385/125	11	0.07
1400556	Micretain	MXE11-300-10/00	457 x 457 x 150	H11	6.9	865/125	10	0.04
1400557	Micretain	MXE11-220-10/00	305 x 610 x 150	H11	6.1	770/125	6	0.04
1400558	Micretain	MXE11-110-10/00	305 x 305 x 150	H11	3	380/125	4	0.02
1400651	Micretain	GGE11-1250-10/00	762 x 610 x 292	H11	18	2380/125	16	0.18
1400652	Micretain	GGE11-1000-10/00	610 x 610 x 292	H11	14.4	1900/125	12.5	0.13
1400653	Micretain	GGE11-725-10/00	457 x 610 x 292	H11	10.8	1420/125	9.9	0.13
1400654	Micretain	GGE11-450-10/00	305 x 610 x 292	H11	7.2	950/125	7.2	0.07
1400701	Micretain	TRE11-1250-10/00	762 x 610 x 292	H11	27	2975/125	16.2	0.18
1400702	Micretain	TRE11-1000-10/00	610 x 610 x 292	H11	21.8	2380/125	13	0.13
1400703	Micretain	TRE11-725-10/00	457 x 610 x 292	H11	16.4	1780/125	10	0.11
1400704	Micretain	TRE11-450-10/00	305 x 610 x 292	H11	10.9	1190/125	7.2	0.07

* Other sizes are available on request.

Micretain MDS11/MXS11/GGS11/TRS11



Advantages

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

Application: Very high efficiency final filtration.

Type: Close pleated very high efficiency filter.

Frame: Medium Density Fibre (MDF) board.

Gasket: Endless polyurethane gasket at inlet.

Media: Pleated glass paper.

Separator: Hot melt beads.

Sealant: Polyurethane.

EN 1822 filter class: ≥ 95%.

DOP efficiency: ≥ 99%.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: Nominal flow rate, otherwise reduction in efficiency.

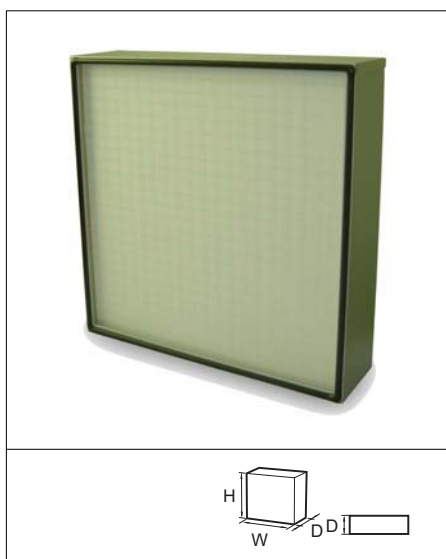
Temperature: 70°C maximum in continuous service.

Mounting systems: FCB Housings.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
1400751	Micretain	MDS11-1200-10/00	1219 x 610 x 150	H11	16.5	2220/125	18	0.14
1400752	Micretain	MDS11-980-10/00	914 x 610 x 150	H11	12.3	1650/125	15	0.11
1400753	Micretain	MDS11-830-10/00	762 x 610 x 150	H11	10.1	1370/125	13.5	0.09
1400754	Micretain	MDS11-600-10/00	610 x 610 x 150	H11	8	1080/125	12	0.07
1400755	Micretain	MDS11-500-10/00	575 x 575 x 150	H11	7.1	950/125	11	0.07
1400756	Micretain	MDS11-300-10/00	457 x 457 x 150	H11	4.3	580/125	10	0.04
1400757	Micretain	MDS11-220-10/00	305 x 610 x 150	H11	3.8	505/125	6	0.04
1400758	Micretain	MDS11-110-10/00	305 x 305 x 150	H11	1.8	236/125	4	0.02
1400801	Micretain	MXS11-1200-10/00	1219 x 610 x 150	H11	23	2900/125	18	0.14
1400802	Micretain	MXS11-980-10/00	914 x 610 x 150	H11	17.1	2150/125	15	0.11
1400803	Micretain	MXS11-830-10/00	762 x 610 x 150	H11	14.2	1788/125	12	0.09
1400804	Micretain	MXS11-600-10/00	610 x 610 x 150	H11	11.2	1410/125	12	0.07
1400805	Micretain	MXS11-500-10/00	575 x 575 x 150	H11	9.9	1245/125	11	0.07
1400806	Micretain	MXS11-300-10/00	457 x 457 x 150	H11	6	760/125	10	0.04
1400807	Micretain	MXS11-220-10/00	305 x 610 x 150	H11	5.3	668/125	6	0.04
1400808	Micretain	MXS11-110-10/00	305 x 305 x 150	H11	2.5	310/125	4	0.02
1400901	Micretain	GGS11-1250-10/00	762 x 610 x 292	H11	16.6	2180/125	16.5	0.18
1400902	Micretain	GGS11-1000-10/00	610 x 610 x 292	H11	13.1	1735/125	13	0.13
1400903	Micretain	GGS11-725-10/00	457 x 610 x 292	H11	9.6	1265/125	9.6	0.13
1400904	Micretain	GGS11-450-10/00	305 x 610 x 292	H11	6.2	815/125	7.2	0.07
1400951	Micretain	TRS11-1250-10/00	762 x 610 x 292	H11	25	2725/125	16.2	0.18
1400952	Micretain	TRS11-1000-10/00	610 x 610 x 292	H11	19.8	2170/125	13	0.13
1400953	Micretain	TRS11-725-10/00	457 x 610 x 292	H11	14.4	1585/125	10	0.13
1400954	Micretain	TRS11-450-10/00	305 x 610 x 292	H11	9.2	1015/125	7.2	0.07

* Other sizes are available on request.

Absolute MDE13/MXE13/GGE13/TRE13



Advantages

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

Application: Very high efficiency final filtration, in air conditioning systems, housing-ducts or diffusers.

Type: Close pleated very high efficiency filter.

Frame: Electro zinc.

Gasket: Endless polyurethane gasket at inlet.

Media: Pleated glass paper.

Separator: Hot melt.

EN 1822 filter class: H13.

MPPS efficiency: $\geq 99.95\%$.

DOP efficiency: $\geq 99.99\%$.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: Nominal flow rate, otherwise reduction in efficiency.

Temperature: 70°C maximum in continuous service.

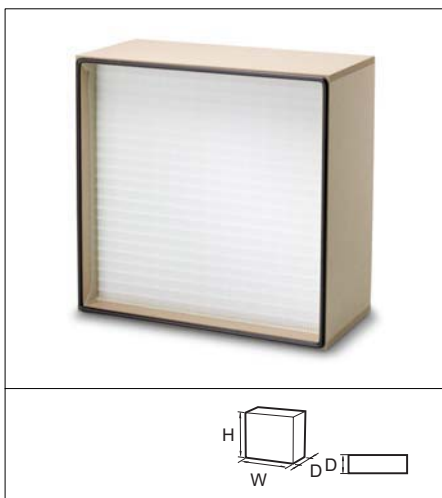
Mounting systems: FCB Housings, Ducts, Diffusers, CAMSAFE.

Fire rating: DIN 53438 Class F1.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Air flow / pressure drop m ³ /hr/Pa	Media area m ²	Unit weight kg	Unit volume m ³
1400001	Absolute	MDE13-1200-10/00	1219 x 610 x 150	H13	2618/250	19.7	18	0.14
1400002	Absolute	MDE13-980-10/00	914 x 610 x 150	H13	1958/250	14.7	15	0.11
1400003	Absolute	MDE13-830-10/00	762 x 610 x 150	H13	1635/250	12.3	13.5	0.09
1400004	Absolute	MDE13-600-10/00	610 x 610 x 150	H13	1305/250	9.8	12	0.07
1400005	Absolute	MDE13-500-10/00	575 x 575 x 150	H13	1161/250	8.7	11	0.07
1400006	Absolute	MDE13-300-10/00	457 x 457 x 150	H13	726/250	5.5	10	0.04
1400007	Absolute	MDE13-220-10/00	305 x 610 x 150	H13	645/250	4.9	6	0.04
1400008	Absolute	MDE13-110-10/00	305 x 305 x 150	H13	317/250	2.4	4	0.02
1400051	Absolute	MXE13-1200-10/00	1219 x 610 x 150	H13	3131/250	27.1	18	0.14
1400052	Absolute	MXE13-980-10/00	914 x 610 x 150	H13	2348/250	20.1	15	0.11
1400053	Absolute	MXE13-830-10/00	762 x 610 x 150	H13	1957/250	16.7	13.5	0.09
1400054	Absolute	MXE13-600-10/00	610 x 610 x 150	H13	1565/250	13.4	12	0.07
1400055	Absolute	MXE13-500-10/00	575 x 575 x 150	H13	1384/250	12	11	0.07
1400056	Absolute	MXE13-300-10/00	457 x 457 x 150	H13	867/250	7.4	10	0.04
1400057	Absolute	MXE13-220-10/00	305 x 610 x 150	H13	773/250	6.6	6	0.04
1400058	Absolute	MXE13-110-10/00	305 x 305 x 150	H13	380/250	3.2	4	0.02
1400151	Absolute	GGE13-1250-10/00	762 x 610 x 292	H13	2251/250	19.6	16.6	0.18
1400152	Absolute	GGE13-1000-10/00	610 x 610 x 292	H13	1804/250	15.7	14.2	0.13
1400153	Absolute	GGE13-725-10/00	457 x 610 x 292	H13	1340/250	11.7	11.8	0.13
1400154	Absolute	GGE13-450-10/00	305 x 610 x 292	H13	893/250	7.8	9.4	0.07
1400201	Absolute	TRE13-1250-10/00	762 x 610 x 292	H13	3100/250	29.4	18	0.18
1400202	Absolute	TRE13-1000-10/00	610 x 610 x 292	H13	2485/250	23.5	15.4	0.13
1400203	Absolute	TRE13-725-10/00	457 x 610 x 292	H13	1850/250	17.5	12.6	0.13
1400204	Absolute	TRE13-450-10/00	305 x 610 x 292	H13	1230/250	11.7	9.9	0.07

* Other sizes are available on request.

Absolute MDS13/MXS13/GGS13/TRS13



Advantages

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

Application: Very high efficiency final filtration, in air conditioning systems, housing-ducts or diffusers.

Type: Close pleated very high efficiency filter.

Frame: Medium Density Fibre (MDF) Board.

Gasket: Endless polyurethane gasket at inlet.

Media: Pleated glass paper.

Separator: Hot melt.

Sealant: Polyurethane.

EN 1822 filter class: 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.

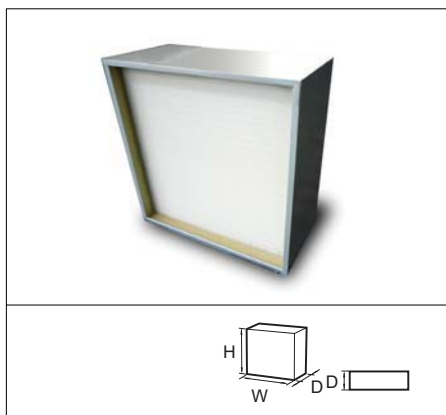
Temperature: 70°C maximum in continuous service.

Mounting systems: FCB Housings, Ducts, Diffusers, CAMSAFE.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Air flow / pressure drop m³/hr/Pa	Media area m²	Unit weight kg	Unit volume m³
1400251	Absolute	MDS13-1200-10/00	1219 x 610 x 150	H13	2434/250	18.3	18	0.14
1400252	Absolute	MDS13-980-10/00	914 x 610 x 150	H13	1805/250	13.6	15	0.11
1400253	Absolute	MDS13-830-10/00	762 x 610 x 150	H13	1497/250	11.3	13.5	0.09
1400254	Absolute	MDS13-600-10/00	610 x 610 x 150	H13	1183/250	8.9	12	0.07
1400255	Absolute	MDS13-500-10/00	575 x 575 x 150	H13	1046/250	7.9	11	0.07
1400256	Absolute	MDS13-300-10/00	457 x 457 x 150	H13	636/250	4.8	10	0.04
1400257	Absolute	MDS13-220-10/00	305 x 610 x 150	H13	553/250	4.2	6	0.04
1400258	Absolute	MDS13-110-10/00	305 x 305 x 150	H13	258/250	1.9	4	0.02
1400301	Absolute	MXS13-1200-10/00	1219 x 610 x 150	H13	2912/250	24.9	18	0.14
1400302	Absolute	MXS13-980-10/00	914 x 610 x 150	H13	2166/250	18.5	15	0.11
1400303	Absolute	MXS13-830-10/00	762 x 610 x 150	H13	1793/250	15.3	13.5	0.09
1400304	Absolute	MXS13-600-10/00	610 x 610 x 150	H13	1419/250	12.1	12	0.07
1400305	Absolute	MXS13-500-10/00	575 x 575 x 150	H13	1247/250	10.7	10	0.07
1400306	Absolute	MXS13-300-10/00	457 x 457 x 150	H13	760/250	6.5	8	0.04
1400307	Absolute	MXS13-220-10/00	305 x 610 x 150	H13	664/250	5.7	6	0.04
1400308	Absolute	MXS13-110-10/00	305 x 305 x 150	H13	310/250	2.7	4	0.02
1400401	Absolute	GGs13-1250-10/00	762 x 610 x 292	H13	2075/250	18.1	16	0.18
1400402	Absolute	GGs13-1000-10/00	610 x 610 x 292	H13	1635/250	14.2	12.5	0.13
1400403	Absolute	GGs13-725-10/00	457 x 610 x 292	H13	1210/250	10.5	9.9	0.13
1400404	Absolute	GGs13-450-10/00	305 x 610 x 292	H13	770/250	6.7	7	0.07
1400451	Absolute	TRS13-1250-10/00	762 x 610 x 292	H13	2855/250	27.1	16.2	0.18
1400452	Absolute	TRS13-1000-10/00	610 x 610 x 292	H13	2250/250	21.3	13	0.13
1400453	Absolute	TRS13-725-10/00	457 x 610 x 292	H13	1670/250	15.8	10	0.13
1400454	Absolute	TRS13-450-10/00	305 x 610 x 292	H13	1060/250	10.1	7.2	0.07

*Other sizes are available on request.

MegaFlo



Advantages

- High air flow applications
- High efficiency
- High quality glass fibre media
- Flexibility in size

Application: HEPA-filter for high air flows.

Type: HEPA-Filter.

Frame: Electro zinc.

Gasket: Endless polyurethane at inlet.

Media: Glass fibre.

Separators: Hot melt beads.

Sealant: Polyurethane.

Faceguard: Expanded metal on both sides powder coated with RAL 9016.

EN 1822 filter class: H13, H14.

MPPS Efficiency: H13: ≥99.95%, H14: ≥99.995%.

DOP efficiency: ≥99.99%, >99,999%

Recommended final pressure drop: 500 Pa.

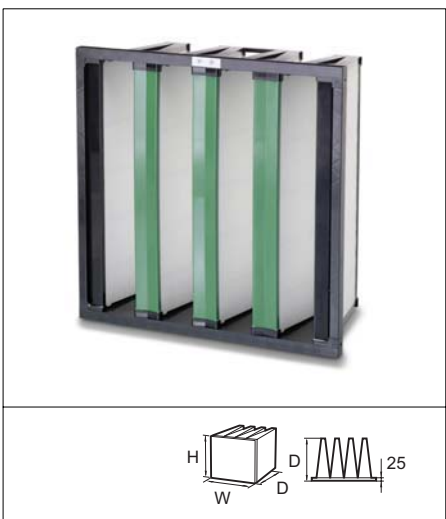
Temperature / Humidity: 70° C / 100% RH.

Fire rating: DIN 53438 Class F1.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Air flow / pressure drop m³/hr/Pa	Media area m²	Unit weight kg	Unit volume m³
1408010	MegaFlo MFE13-305*610-10/22	305x610x292	H13	1500/250	19.8	12.7	0.075
1408011	MegaFlo MFE13-610*610-10/22	610x610x292	H13	3000/250	39.9	20.9	0.143
1408009	MegaFlo MFE13-762*610-10/22	762x610x292	H13	3750/250	50.1	24.9	0.178
1408012	MegaFlo MFE14-305*610-10/22	305x610x292	H14	1300/250	19.8	12.8	0.075
1408013	MegaFlo MFE14-610*610-10/22	610x610x292	H14	2600/250	39.9	21	0.143
1408014	MegaFlo MFE14-762*610-10/22	762x610x292	H14	3300/250	50.1	25.1	0.178

*Other sizes and frames are available on request.

Opakfil G Micretain - H10



Advantages

- Easy to install
- Up to 4000 m³/hr air flow
- Incinerable
- Low weight

Application: Final filtration in air conditioning systems, industrial processes.

Type: Very high efficiency, incinerable, compact filter.

Frame: Polypropylene and ABS.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

EN 1822 filter class: H10.

MPPS efficiency: > 85%.

DOP efficiency: > 95%.

Recommended final pressure drop: 450 Pa.

Maximum flow rate: See table, use nominal values otherwise a reduction in efficiency may occur.

Temperature: 70°C maximum in continuous service.

Holding Frames: Front and side access housings and frames are available. Type 8 and FC housings.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2430001	7OPGHF-242412	592 x 592 x 290	H10	18.5	4000/250	5	0.13
2430002	7OPGHF-242012	592 x 490 x 290	H10	15.2	2850/250	4	0.13
2430003	7OPGHF-241212	592 x 287 x 290	H10	8.4	1700/250	3	0.06

* Gasket available on request.

Opakfil Absolute H13



Advantages

- Easy to install
- Low weight
- Incinerable

Application: Final filtration in air conditioning systems, industrial processes.

Type: Very high efficiency, incinerable, compact filter.

Frame: Polypropylene and ABS.

Gasket: Endless polyurethane gasket at downstream.

Media: Glass fibre paper.

Separator: Polyurethane.

EN1822 filter class: H13.

MPPS efficiency: >99.95%

DOP efficiency: >99.99%.

Recommended pressure drop: 450 Pa.

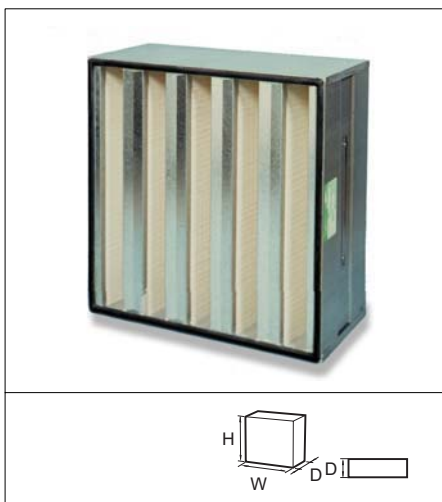
Maximum flow rate: See table, use nominal values otherwise a reduction in efficiency may occur.

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 classification EN 1822	Media area m ²	Air flow / Pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
2440001	Opakfil Absolute	1OPGHF-242412-01	592 x 592 x 292	H13	29.6	3000/250	5	0.13
2440002	Opakfil Absolute	1OPGHF-241212-01	592 x 287 x 292	H13	13.1	1350/250	3	0.06
2440003	Opakfil Absolute	1OPGHF-242012-01	592 x 490 x 292	H13	24.2	2450/250	4	0.13

Sofilair - H11, H13, H14



Advantages

- High air flow rates, up to 5000 m³/hr
- Tested in accordance with EN 1822
- Handle to assist with filter changes
- High filter surface area offers low pressure drop for energy savings and longer life

Application: Very high efficiency final filtration in air conditioning systems, housings and diffusers.

Type: High air flow HEPA filter.

Frame: Galvanised steel.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

Gasket: Endless polyurethane gasket.

EN 1822 filter class: H11, H13 and H14.

MPPS efficiency: H11:>95%, H13:>99.95%, H14:> 99.995%.

DOP efficiency: ≥ 99.9%, 99.99%, 99.999%,

Recommended final pressure drop: 600 Pa.

Maximum air flow rate: See table, use nominal values otherwise a reduction in efficiency may occur.

Temperature: 70°C maximum in continuous service.

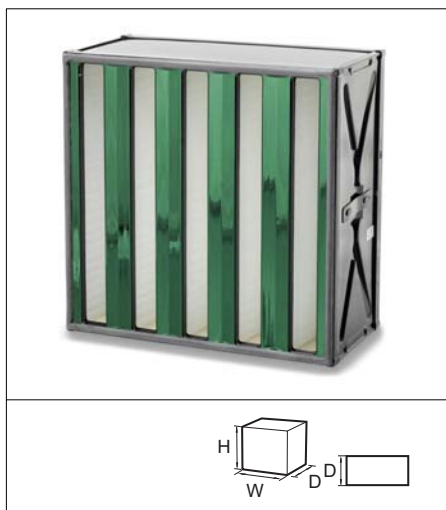
Mounting systems: Front and side access filter frames, FC Housings, terminal housings and safe change systems.

Fire rating: DIN 53438 class F1.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / Pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
1700006	Micretain, 1570.01	610 x 610 x 292	H11	35	5000/250	23	0.11
1700007	Micretain, 1573.02	610 x 610 x 292	H11	21	4000/250	20	0.11
1700008	Micretain, 1575.02	305 x 610 x 292	H11	14	2000/250	14	0.05
1700009	Micretain, 1577.01	595 x 595 x 292	H11	38	4200/250	22	0.11
1700010	Micretain, 1578.01	289 x 595 x 292	H11	16	1700/250	13	0.05
1700001	Absolute, 1560.02	610 x 610 x 292	H13	40	4000/250	23	0.11
1700002	Absolute, 1560.01	610 x 610 x 292	H13	33	3400/250	20	0.11
1700003	Absolute, 1565.01	305 x 610 x 292	H13	16	1700/250	13	0.05
1700004	Absolute, 1567.01	595 x 595 x 292	H13	38	3200/250	22	0.11
1700005	Absolute, 1568.01	289 x 595 x 292	H13	16	1300/250	12	0.05
1700011	HEPA, 1560.02.06	610 x 610 x 292	H14	40	3000/250	23	0.11
1700013	HEPA, 1565.01.02	305 x 610 x 292	H14	16	1500/250	20	0.11
1700016	HEPA, 1560.02.99	610 x 610 x 292	H14	40	3400/250	23	0.11
1700018	HEPA, 1565.01.99	305 x 610 x 292	H14	16	1700/250	13	0.05

*Other sizes, stainless steel or aluminium frames are available on request.

Sofilair Green - H10, H12, H13, H14



Advantages

- Incinerable
- High air flow rates
- Light weight construction
- New ergonomic handle to assist with filter changes
- Corrosion resistant
- High filter surface area offers low pressure drop for energy savings and longer life

Application: High efficiency final filtration in air conditioning systems, extraction from corrosive or hazardous environments.

Type: High air flow incinerable HEPA filter.

Frame: ABS.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

Gasket: One piece half round continuous gasket.

EN 1822 filter class: H10, H12, H13, H14.

MPPS efficiency: H10:>85%, H12:>99.5%, H13:>99.95% & H14:>99.995%.

Recommended final pressure drop: 600 Pa.

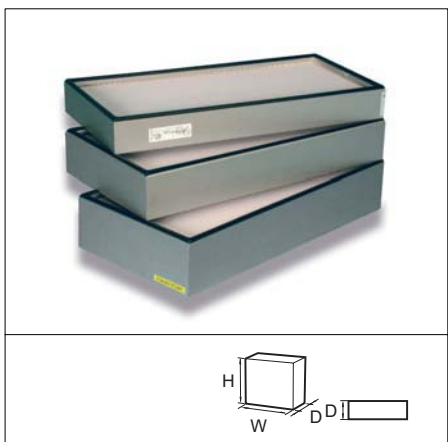
Maximum air flow rate: See table, use nominal values otherwise a reduction in efficiency may occur.

Temperature: 60°C maximum in continuous service.

Mounting systems: Front and side access filter frames. Terminal housings and safe change systems.

Reference	Model	Dimensions (LxHxD) mm	Filter classification EN 1822	Media area m ²	Airflow/pressure drop m ³ /h/ Pa	Unit weight kg	Unit volume m ³
1575.82.00	SFRG-P-2000-H10	305x610x292	H10	13	2000/230	6	0,06
1570.81.00	SFRG-P-5000-H10	610x610x292	H10	33	5000/230	12	0,11
1585.81.00	SFRG-P-1500-H12	305x610x292	H12	15	1500/250	10	0,06
1580.82.00	SFRG-P-4000-H12	610x610x292	H12	38	4000/250	13.5	0,11
1565.81.00	SFRG-P-1500-H13	305x610x292	H13	15	1500/250	6	0,06
1560.82.00	SFRG-P-4000-H13	610x610x292	H13	38	4000/250	12	0,11
1565.81.02	SFRG-P-1400-H14	305x610x292	H14	15	1400/280	6	0,06
1560.82.06	SFRG-P-3500-H14	610x610x292	H14	38	3500/270	12	0,11

Megalam MD, MX, MG

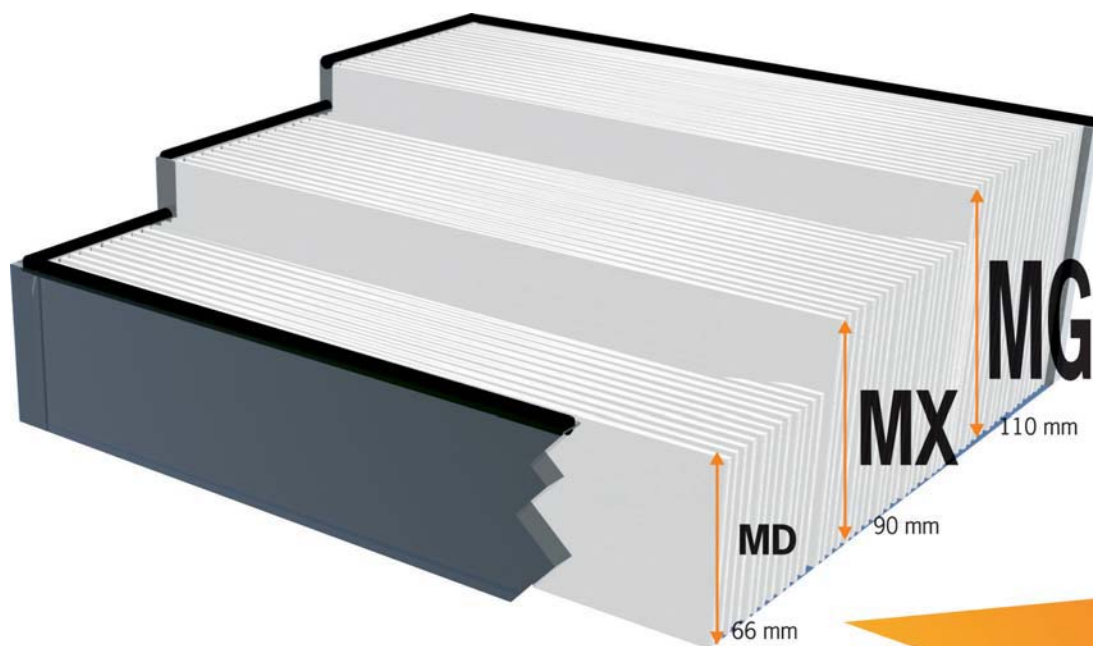


Advantages

- Low pressure drop
- Low noise
- Higher flow rate
- Longer operating life

Example: Megalam H14 / 610x610 mm

	MD	MX	MG
Filter area	10m ²	12.5m ²	18m ²
Pressure drop at 0.45 m/s	140 Pa	95 Pa (-32%)	60 Pa (-40%)
Maximum airflow	900 m ³ /h	1300 m ³ /h	2000 m ³ /h
Energy	—	-32%	-57%
Lifespan	(-)	x 1.5	x 2.5



Lower pressure drop
Higher airflow rate
More energy savings
Longer operating life

Megalam Configurations Options

We have included a range of standard configurations in this catalogue, but the Megalam series of clean room panels can be configured with a wide range of options to meet your requirement. Options include (first item denotes the standard product):

Element	Options
Gasket	<ul style="list-style-type: none"> - Endless Polyurethane - Poron - Neoprene - PU Gel - Silicone Gel - None
Faceguard	<ul style="list-style-type: none"> - RAL 9016 powder coated hot dip galvanized iron - Custom color powder coated hot dip galvanized iron - Stainless steel - Anodized aluminium - None
Frame type	<ul style="list-style-type: none"> - Anodized aluminium - Anodized aluminium knife type
High performance airflow distribution	<ul style="list-style-type: none"> - Glass fibre screen - Synthetic screen
Filter efficiency	<ul style="list-style-type: none"> - H10 - U17 according to EN1822 - Rating at 0.3µm or 0.12µm
Test Aerosol	<ul style="list-style-type: none"> - DEHS (liquid) - PSL (solid) - None
Fire Rating	<ul style="list-style-type: none"> - DIN 53438 - UL 900 Class 1 - UL 900 Class 2 - FM 4920
Media Options	<ul style="list-style-type: none"> - Glass fibre media - Low boron media - ePFTE media

HEPA/ULPA Panels

Profiles for Megalam Filter



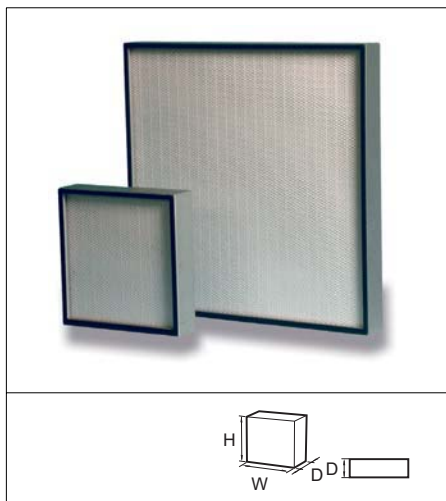
Extruded aluminium frames for megalam filters

This overview shows the different standard frame profiles available.

Seal	Frame		
	Filter Type: MD	MX	MG
GASKET			
LIQUID SEAL			
LIQUID SEAL			
KNIFE EDGE			

* Other profile configurations are available upon request.

Megalam MD - H13 to U15



Advantages

- Low pressure drop
- Double faceguard
- Guaranteed performance
- Individually tested according to EN 1822

Application: Final or return filtration for clean rooms with turbulent flow.

Type: High efficiency filter panel with seal for mechanical clamping mounting systems.

Frame: Extruded and anodized aluminium.

Gasket: Endless polyurethane at inlet.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

Faceguard: Expanded metal on both sides, powder coated with RAL 9016.

EN 1822 filter class: H13, H14, U15.

MPPS efficiency: H13: $\geq 99.95\%$, H14: $\geq 99.995\%$, U15: $\geq 99.9995\%$.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: See table, use nom. values otherwise a reduction in efficiency may occur.

Temperature: 70°C maximum in continuous service.

Test: 100% individually tested according to EN 1822.

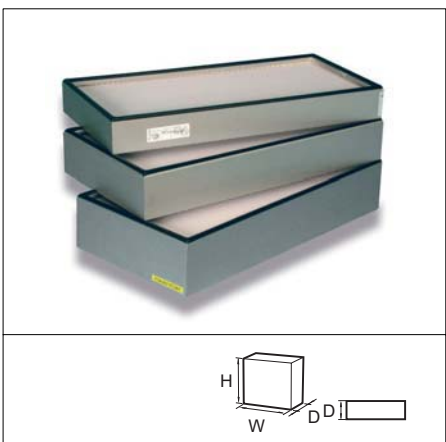
Mounting system: Mechanical clamping structure, Terminal housings.

Fire rating: UL 900 Class 2, FM 4920 approval on request.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
15002001	MD13- 305*305-10/22	305 x 305 x 66	H13	2.4	151/119	1	0.01
15002002	MD13- 305*610-10/22	305 x 610 x 66	H13	4.8	301/116	2	0.02
15002003	MD13- 610*610-10/22	610 x 610 x 66	H13	9.7	603/115	4	0.03
15002004	MD13- 762*610-10/22	762 x 610 x 66	H13	12.2	753/115	5	0.04
15002005	MD13- 914*610-10/22	914 x 610 x 66	H13	14.6	903/114	6	0.05
15002006	MD13- 1219*610-10/22	1219 x 610 x 66	H13	19.5	1205/114	8	0.07
15002007	MD13- 1524*610-10/22	1524 x 610 x 66	H13	24.5	1506/114	10	0.09
15002008	MD13- 914*762-10/22	914 x 762 x 66	H13	18.4	1128/114	7.5	0.07
15002009	MD13- 1219*762-10/22	1219 x 762 x 66	H13	24.5	1505/114	10	0.09
15002010	MD13- 1524*762-10/22	1524 x 762 x 66	H13	30.7	1881/114	12.5	0.11
15002011	MD13- 914*914-10/22	914 x 914 x 66	H13	22.1	1353/113	9	0.08
15002201	MD14- 305*305-10/22	305 x 305 x 66	H14	2.4	151/145	1	0.01
15002202	MD14- 305*610-10/22	305 x 610 x 66	H14	4.8	301/142	2	0.02
15002203	MD14- 610*610-10/22	610 x 610 x 66	H14	9.7	603/141	4	0.03
15002204	MD14- 762*610-10/22	762 x 610 x 66	H14	12.2	753/140	5	0.04
15002205	MD14- 914*610-10/22	914 x 610 x 66	H14	14.6	903/140	6	0.05
15002206	MD14- 1219*610-10/22	1219 x 610 x 66	H14	19.5	1205/140	8	0.07
15002207	MD14- 1524*610-10/22	1524 x 610 x 66	H14	24.5	1506/140	10	0.09
15002208	MD14- 914*762-10/22	914 x 762 x 66	H14	18.4	1128/139	7.5	0.07
15002209	MD14- 1219*762-10/22	1219 x 762 x 66	H14	24.5	1505/139	10	0.09
15002210	MD14- 1524*762-10/22	1524 x 762 x 66	H14	30.7	1881/139	12.5	0.17
15002211	MD14- 914*914-10/22	914 x 914 x 66	H14	22.1	1353/139	9	0.08
15002401	MD15- 305*305-10/22	305 x 305 x 66	U15	2.7	151/150	1	0.01
15002402	MD15- 305*610-10/22	305 x 610 x 66	U15	5.6	301/146	2	0.02
15002403	MD15- 610*610-10/22	610 x 610 x 66	U15	11.3	603/146	4	0.03
15002404	MD15- 762*610-10/22	762 x 610 x 66	U15	14.2	753/145	5	0.04
15002405	MDL15- 914*610-10/22	914 x 610 x 66	U15	17.1	903/145	6	0.05
15002406	MD15- 1219*610-10/22	1219 x 610 x 66	U15	22.7	1205/145	8	0.07
15002407	MD15- 1524*610-10/22	1524 x 610 x 66	U15	28.5	1506/144	10	0.09
15002408	MD15- 914*762-10/22	914 x 762 x 66	U15	21.4	1128/144	7.5	0.07
15002409	MD15- 1219*762-10/22	1219 x 762 x 66	U15	28.5	1505/144	10	0.09
15002410	MD15- 1524*762-10/22	1524 x 762 x 66	U15	35.7	1881/144	12.5	0.11
15002411	MD15- 914*914-10/22	914 x 914 x 66	U15	26	1353/143	9	0.08

*Other sizes are available on request.

Megalam MX - H14 to U15



Advantages

- Low pressure drop
- Higher flow rate
- Longer operating life
- Individually tested according to EN 1822

Application: Final or return filtration for clean rooms with turbulent flow.

Type: High efficiency filter panel with seal for mechanical clamping systems.

Frame: Extruded and anodised aluminium.

Gasket: Polyurethane endless at inlet.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

Faceguard: Expanded metal on both side, powder coated RAL 9016.

EN 1822 filter class: H14, U15.

MPPS efficiency: H14: $\geq 99.995\%$, U15: $\geq 99.9995\%$.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: see table, use nominal values otherwise a reduction in efficiency may occur.

Temperature: 70°C maximum in continuous service.

Test: 100% individually tested according to EN 1822.

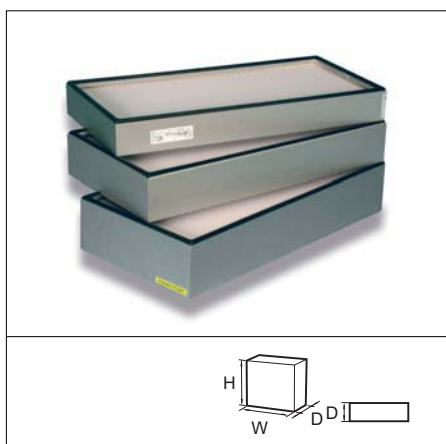
Mounting system: Mechanical clamping structure, Terminal housing.

Fire rating: UL 900 Class 2, FM 4920 approval on request.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
15002801	MX14- 305*305-10/22	305 x 305 x 90	H14	3.2	151/99	1.4	0.01
15002802	MX14- 305*610-10/22	305 x 610 x 90	H14	6.6	301/96	2.8	0.02
15002803	MX14- 610*610-10/22	610 x 610 x 90	H14	13.2	603/96	5.6	0.04
15002804	MX14- 762*610-10/22	762 x 610 x 90	H14	16.5	753/95	7	0.05
15002805	MX14- 914*610-10/22	914 x 610 x 90	H14	20.2	903/95	8.4	0.07
15002806	MX14- 1219*610-10/22	1219 x 610 x 90	H14	27	1205/95	11.2	0.09
15002807	MX14- 1524*610-10/22	1524 x 610 x 90	H14	33.2	1506/95	14	0.12
15002808	MX14- 914*762-10/22	914 x 762 x 90	H14	25.2	1128/95	10.5	0.09
15002809	MX14- 1219*762-10/22	1219 x 762 x 90	H14	33.4	1505/95	14	0.12
15002810	MX14- 1524*762-10/22	1524 x 762 x 90	H14	42.2	1881/95	17.5	0.14
15002811	MX14- 914*914-10/22	914 x 914 x 90	H14	30	1353/95	12.6	0.1
15003001	MX15- 305*305-10/22	305 x 305 x 90	U15	3.7	151/119	1.4	0.01
15003002	MX15- 305*610-10/22	305 x 610 x 90	U15	7.5	301/116	2.8	0.02
15003003	MX15- 610*610-10/22	610 x 610 x 90	U15	15.2	603/115	5.6	0.04
15003004	MX15- 762*610-10/22	762 x 610 x 90	U15	19	753/115	7	0.06
15003005	MX15- 914*610-10/22	914 x 610 x 90	U15	23.1	903/115	8.4	0.07
15003006	MX15- 1219*610-10/22	1219 x 610 x 90	U15	30.5	1205/115	11.2	0.09
15003007	MX15- 1524*610-10/22	1524 x 610 x 90	U15	38.1	1506/115	14	0.12
15003008	MX15- 914*762-10/22	914 x 762 x 90	U15	28.6	1128/115	10.5	0.09
15003009	MX15- 1219*762-10/22	1219 x 762 x 90	U15	38.2	1505/114	14	0.12
15003010	MX15- 1524*762-10/22	1524 x 762 x 90	U15	48.4	1881/114	17.5	0.14
15003011	MX15- 914*914-10/22	914 x 914 x 90	U15	34.4	1353/114	12.6	0.1

* Other sizes are available on request.

Megalam MG - H14 to U15



Advantages

- Low pressure drop
- Double faceguard
- Longer operating life
- Individually tested according to EN 1822

Application: Final or return filtration for clean rooms with turbulent flow.

Type: High efficiency filter panel for mechanical clamping systems.

Frame: Extruded and anodised aluminium.

Gasket: Polyurethane endless at inlet.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

Faceguard: Expanded metal on both side, powder coated RAL 9016.

EN 1822 filter class: H14, U15.

MPPS efficiency: H14: $\geq 99.995\%$, U15: $\geq 99.9995\%$.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: See table, use nominal values otherwise a reduction in efficiency may occur.

Temperature: 70°C maximum in continuous service.

Test: 100% individually tested according to EN 1822.

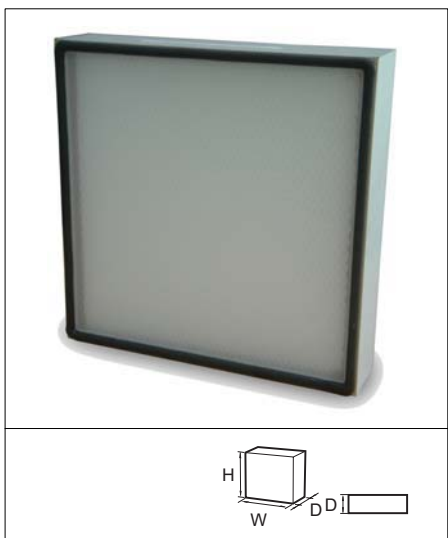
Mounting system: Mechanical clamping structure, Terminal housing.

Fire rating: UL 900 Class 2, FM 4920 approval on request.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
15003401	MG14- 305*305-10/22	305 x 305 x 110	H14	4.2	151/62	1.7	0.02
15003402	MG14- 305*610-10/22	305 x 610 x 110	H14	8.7	301/60	2.9	0.03
15003403	MG14- 610*610-10/22	610 x 610 x 110	H14	17.5	603/60	5.3	0.06
15003404	MG14- 762*610-10/22	762 x 610 x 110	H14	22.2	753/60	6.5	0.07
15003405	MG14- 914*610-10/22	914 x 610 x 110	H14	26.3	903/60	7.7	0.09
15003406	MG14- 1219*610-10/22	1219 x 610 x 110	H14	35.2	1205/59	10	0.14
15003407	MG14- 1524*610-10/22	1524 x 610 x 110	H14	44	1506/59	12.4	0.14
15003408	MG14- 914*762-10/22	914 x 762 x 110	H14	33.4	1128/59	9.4	0.11
15003409	MG14- 1219*762-10/22	1219 x 762 x 110	H14	44.2	1505/59	12.4	0.14
15003410	MG14- 1524*762-10/22	1524 x 762 x 110	H14	55.2	1881/59	15.4	0.14
15003411	MG14- 914*914-10/22	914 x 914 x 110	H14	40.1	1353/59	11.2	0.13
15003601	MG15- 305*305-10/22	305 x 305 x 110	U15	4.6	151/83	1.7	0.02
15003602	MG15- 305*610-10/22	305 x 610 x 110	U15	9.3	301/81	2.9	0.03
15003603	MG15- 610*610-10/22	610 x 610 x 110	U15	19	603/81	5.3	0.06
15003604	MG15- 762*610-10/22	762 x 610 x 110	U15	23.5	753/80	6.5	0.07
15003605	MG15- 914*610-10/22	914 x 610 x 110	U15	28.2	903/80	7.7	0.09
15003606	MG15- 1219*610-10/22	1219 x 610 x 110	U15	38.4	1205/80	10	0.11
15003607	MG15- 1524*610-10/22	1524 x 610 x 110	U15	48	1506/80	12.4	0.14
15003608	MG15- 914*762-10/22	914 x 762 x 110	U15	35.4	1128/80	9.4	0.11
15003609	MG15- 1219*762-10/22	1219 x 762 x 110	U15	48	1505/80	12.4	0.14
15003610	MG15- 1524*762-10/22	1524 x 762 x 110	U15	60	1881/80	15.4	0.14
15003611	MG15- 914*914-10/22	914 x 914 x 110	U15	43	1353/80	11.2	0.13

* Other sizes are available on request.

Megalam (Laminator) MDL, MXL, MGL - H14 to U15



Advantages

- Laminarity better than +/- 10%
- Low pressure drop
- Single faceguard
- Longer operating life
- Individually tested according to EN 1822

Application: Final or return filtration for clean rooms with turbulent flow.

Type: High efficiency filter panel with laminator and seal for mechanical clamping systems.

Frame: Extruded and anodized aluminium.

Gasket: Polyurethane endless at outlet.

Media: Glass fibre paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

Laminator: Glass fibre screen, bonded downstream for laminar diffusion.

Faceguard: Expanded metal at inlet side, powder coated RAL 9016.

EN 1822 filter class: H14, U15.

MPPS efficiency: H14: $\geq 99.995\%$, U15: $\geq 99.9995\%$.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: See table, use nominal values otherwise a reduction in efficiency may occur.

Temperature: 70°C maximum in continuous service.

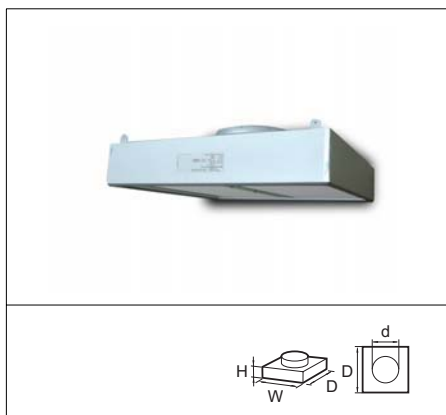
Mounting system: Mechanical clamping structure, Terminal housing.

Fire rating: UL 900 Class 2, FM 4920 approval on request.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
15000203	MDL14- 610*610-01/20	610 x 610 x 66	H14	9.7	603/156	4	0.03
15000206	MDL14- 1219*610-01/20	1219 x 610 x 66	H14	19.5	1205/155	8	0.07
15000403	MDL15- 610*610-01/20	610 x 610 x 66	U15	11.3	603/161	4	0.03
15000406	MDL15- 1219*610-01/20	1219 x 610 x 66	U15	23.1	1205/160	8	0.07
15000803	MXL14- 610*610-01/20	610 x 610 x 90	H14	13.2	603/110	5.6	0.03
15000806	MXL14- 1219*610-01/20	1219 x 610 x 90	H14	26.6	1205/110	11.2	0.07
15001003	MXL15- 610*610-01/20	610 x 610 x 90	U15	15.2	603/131	5.6	0.03
15001006	MXL15- 1219*610-01/20	1219 x 610 x 90	U15	30.5	1205/130	11.2	0.07
15001403	MGL14- 610*610-01/20	610 x 610 x 110	H14	17.5	603/75	5.3	0.04
15001406	MGL14- 1219*610-01/20	1219 x 610 x 110	H14	35.2	1205/74	10	0.08
15001603	MGL15- 610*610-01/20	610 x 610 x 110	U15	18.8	603/95	5.3	0.04
15001606	MGL15- 1219*610-01/20	1219 x 610 x 110	U15	37.8	1205/94	10	0.08

*Other sizes are available on request.

Silent Hood HD - H13 to U15



Advantages

- Compact filter-diffuser for clean room
- Ready to install
- Low noise
- Test port
- Laminarity +/- 20%
- Non-slip collar design
- Roomside adjustable diffuser disc

Application: Final filtration for clean rooms.

Type: Ready to install HEPA/ULPA filter diffuser.

Frame: Extruded and anodised aluminium, galvanised steel cover.

Gasket: Endless PU.

Media: Glass fibre paper.

Separator: Hot melt beads.

Sealant: Polyurethane.

Terminal: Collar with outer dia. 305 mm (12in) or 250 mm (10in) depending on the model.

Diffuser disc: Perforated GI.

Faceguard: Expanded metal on outlet, powder coated RAL 9016.

EN 1822 filter class: H13, H14, U15.

MPPS efficiency: H13:≥99.95%, H14:≥99.995% U15:≥99.9995%.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: See table, use nominal values otherwise a reduction in efficiency may occur.

Temperature: 70°C maximum in continuous service.

Test: 100% individually scanned in accordance with EN 1822.

Mounting system: Integrated suspension eyes.

Fire rating: UL 900 Class 2, FM 4920 approval on request.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822:2002	Media area m ²	Air flow/nominal pressure drop m ³ /h/Pa	Unit weight kg	unit volume m ³
15300001	MD13-HD10-610*610-01/02	610 x 610 x 110	H13	9.7	603/130	13	0.07
15300002	MD13-HD10-914*610-01/02	914 x 610 x 110	H13	14.6	903/129	16	0.11
15300003	MD13-HD10-1219*610-01/02	1219 x 610 x 110	H13	19.5	1205/129	19	0.15
15300004	MD13-HD10-600*600-01/02	600 x 600 x 110	H13	9.4	583/130	13	0.07
15300005	MD13-HD10-905*600-01/02	905 x 600 x 110	H13	14.2	880/130	16	0.11
15300006	MD13-HD10-1210*600-01/02	1210 x 600 x 110	H13	19.1	1176/129	19	0.15
15300101	MD14-HD10-610*610-01/02	610 x 610 x 110	H14	9.7	603/156	13	0.07
15300102	MD14-HD10-914*610-01/02	914 x 610 x 110	H14	14.6	903/155	16	0.11
15300103	MD14-HD10-1219*610-01/02	1219 x 610 x 110	H14	19.5	1205/155	19	0.15
15300104	MD14-HD10-600*600-01/02	600 x 600 x 110	H14	9.4	583/156	13	0.07
15300105	MD14-HD10-905*600-01/02	905 x 600 x 110	H14	14.2	880/155	16	0.11
15300106	MD14-HD10-1210*600-01/02	1210 x 600 x 110	H14	19.1	1176/155	19	0.15
15300201	MD15-HD10-610*610-01/02	610 x 610 x 110	U15	11.3	603/161	13	0.07
15300202	MD15-HD10-914*610-01/02	914 x 610 x 110	U15	17.1	903/160	16	0.11
15300203	MD15-HD10-1219*610-01/02	1219 x 610 x 110	U15	22.7	1205/160	19	0.15
15300204	MD15-HD10-600*600-01/02	600 x 600 x 110	U15	11	583/160	13	0.07
15300205	MD15-HD10-905*600-01/02	905 x 600 x 110	U15	16.6	880/160	16	0.11
15300206	MD15-HD10-1210*600-01/02	1210 x 600 x 110	U15	22.2	1176/160	19	0.15
15300401	MX14-HD10-610*610-01/02	610 x 610 x 133	H14	13.2	603/111	15	0.09
15300402	MX14-HD10-914*610-01/02	914 x 610 x 133	H14	19.9	903/110	19	0.13
15300403	MX14-HD10-1219*610-01/02	1219 x 610 x 133	H14	26.6	1205/110	22	0.18
15300404	MX14-HD10-600*600-01/02	600 x 600 x 133	H14	12.8	583/110	15	0.09

* Other sizes are available on request.

HEPA / ULPA Filters, Class H10 to U17

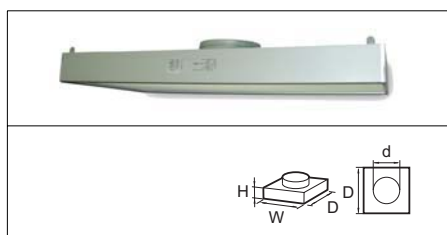
HEPA/ULPA Panels

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822:2002	Media area m ²	Air flow/nominal pressure drop m ³ /h/Pa	Unit weight kg	unit volume m ³
15300405	MX14-HD10-905*600-01/02	905 x 600 x 133	H14	19.4	880/110	19	0.13
15300406	MX14-HD10-1210*600-01/02	1210 x 600 x 133	H14	25.9	1176/110	22	0.18
15300501	MX15-HD10-610*610-01/02	610 x 610 x 133	U15	15.2	603/130	15	0.09
15300502	MX15-HD10-914*610-01/02	914 x 610 x 133	U15	22.8	903/130	19	0.13
15300503	MX15-HD10-1219*610-01/02	1219 x 610 x 133	U15	30.5	1205/130	22	0.18
15300504	MX15-HD10-600*600-01/02	600 x 600 x 133	U15	14.7	583/130	15	0.09
15300505	MX15-HD10-905*600-01/02	905 x 600 x 133	U15	22.2	880/130	19	0.13
15300506	MX15-HD10-1210*600-01/02	1210 x 600 x 133	U15	29.7	1176/130	22	0.18
15300701	MG14-HD10-610*610-01/02	610 x 610 x 155	H14	17.1	603/81	18	0.1
15300703	MG14-HD10-1219*610-01/02	1219 x 610 x 155	H14	34.7	1205/80	26	0.21
15300801	MG15-HD10-610*610-01/02	610 x 610 x 155	U15	18.3	603/100	18	0.1
15300803	MG15-HD10-1219*610-01/02	1219 x 610 x 155	U15	37.3	1205/98	26	0.21
15301001	MD13-HD12- 610*610-01/02	610 x 610 x 110	H13	9.7	603/130	13	0.07
15301002	MD13-HD12- 914*610-01/02	914 x 610 x 110	H13	14.6	903/129	16	0.11
15301003	MD13-HD12-1219* 610-01/02	1219 x 610 x 110	H13	19.5	1205/129	19	0.15
15301004	MD13-HD12- 600*600-01/02	600 x 600 x 110	H13	9.4	583/130	13	0.07
15301005	MD13-HD12- 905*600-01/02	905 x 600 x 110	H13	14.2	880/130	16	0.11
15301006	MD13-HD12-1210* 600-01/02	1210 x 600 x 110	H13	19.1	1176/129	19	0.15
15301101	MD14-HD12- 610*610-01/02	610 x 610 x 110	H14	9.7	603/156	13	0.07
15301102	MD14-HD12- 914*610-01/02	914 x 610 x 110	H14	14.6	903/155	16	0.11
15301103	MD14-HD12-1219*610-01/02	1219 x 610 x 110	H14	19.5	1205/155	19	0.15
15301104	MD14-HD12- 600*600-01/02	600 x 600 x 110	H14	9.4	583/156	13	0.07
15301105	MD14-HD12 905*600-01/02	905 x 600 x 110	H14	14.2	880/155	16	0.11
15301106	MD14-HD12-1210*600-01/02	1210 x 600 x 110	H14	19.1	1176/155	19	0.15
15301201	MD15-HD12-610*610-01/02	610 x 610 x 110	U15	11.3	603/161	13	0.07
15301202	MD15-HD12-610*610-01/02	914 x 610 x 110	U15	17.1	903/160	16	0.11
15301203	MD15-HD12-1219*610-01/02	1219 x 610 x 110	U15	22.7	1205/160	19	0.15
15301204	MD15-HD12-600*600-01/02	600 x 600 x 110	U15	11	583/160	13	0.07
15301205	MD15-HD12-905*600-01/02	905 x 600 x 110	U15	16.6	880/160	16	0.11
15301206	MD15-HD12-1210*600-01/02	1210 x 600 x 110	U15	22.2	1176/160	19	0.15
15301401	MX14-HD12 610*610-01/02	610 x 610 x 133	H14	13.2	603/111	15	0.09
15301402	MX14-HD12 914*610-01/02	914 x 610 x 133	H14	19.9	903/110	19	0.13
15301403	MX14-HD12-1219*610-01/02	1219 x 610 x 133	H14	26.6	1205/110	22	0.18
15301404	MX14-HD12 600*600-01/02	600 x 600 x 133	H14	12.8	583/110	15	0.09
15301405	MX14-HD14 905*600-01/02	905 x 600 x 133	H14	19.4	880/110	19	0.13
15301406	MX14-HD12-1210*600-01/02	1210 x 600 x 133	H14	25.9	1176/110	22	0.18
15301501	MX15-HD12-610*610-01/02	610 x 610 x 133	U15	15.2	603/130	15	0.09
15301502	MX15-HD12-914*610-01/02	914 x 610 x 133	U15	22.8	903/130	19	0.13
15301503	MX15-HD12-1219*610-01/02	1219 x 610 x 133	U15	30.5	1205/130	22	0.18
15301504	MX15-HD12-600*600-01/02	600 x 600 x 133	U15	14.7	583/130	15	0.09
15301505	MX15-HD12-905*600-01/02	905 x 600 x 133	U15	22.2	880/130	19	0.13
15301506	MX15-HD12-1210*600-01/02	1210 x 600 x 133	U15	29.7	1176/130	22	0.18
15301701	MG14-HD12-610*610-01/02	610 x 610 x 155	H14	17.1	603/81	18	0.1
15301703	MG14-HD12-1219*610-01/02	1219 x 610 x 155	H14	34.7	1205/80	26	0.21
15301801	MG15-HD12-610*610-01/02	610 x 610 x 155	U15	18.3	603/100	18	0.1
15301803	MG15-HD12-1219*610-01/02	1219 x 610 x 155	U15	37.3	1205/98	26	0.21

* Other sizes are available on request.

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

Silent Hood HL - H13 to U15



Advantages

- Compact filter-diffuser for clean room
- Quiet: LW = 35 dB
- Ready to install
- Laminarity +/- 20%

Application: Final filtration for clean rooms.

Type: Ready to install HEPA/ULPA filter diffuser.

Frame: Extruded and anodised aluminium, galvanised steel cover.

Gasket: Endless PU.

Media: Glass fibre paper.

Separator: Hot melt beads.

Sealant: Polyurethane.

Terminal: Collar with outer dia. 305 mm (12in) or 250 mm (10in) depending on the model.

Faceguard: Expanded metal powder coated RAL 9016.

EN 1822 filter class: H13, H14, U15.

MPPS efficiency: H13: ≥99.95%, H14: ≥99.995%, U15: ≥99.9995%.

Recommended final pressure drop: 500 Pa.

Maximum flow rate: See table, use nominal values otherwise a reduction in efficiency may occur.

Temperature: 70°C maximum in continuous service.

Test: 100% individually scanned in accordance with EN 1822.

Mounting system: Integrated suspension eyes.

Fire rating: UL 900 Class 2, FM 4920 approval on request.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822:2002	Media area m ²	Air flow / pressure drop m ³ /h/Pa	Unit weight kg	Unit volume m ³
15401001	MD13-HL10-610*610-01/02	610 x 610 x 110	H13	9.9	603/130	13	0.09
15401002	MD13-HL10-914*610-01/02	914 x 610 x 110	H13	14.9	903/129	16	0.18
15401003	MD13-HL10-1219*610-01/02	1219 x 610 x 110	H13	19.9	1205/129	19	0.18
15401004	MD13-HL10-600*600-01/02	600 x 600 x 110	H13	9.6	583/130	13	0.09
15401005	MD13-HL10-905*600-01/02	905 x 600 x 110	H13	14.5	880/130	16	0.18
15401006	MD13-HL10-1210*600-01/02	1210 x 600 x 110	H13	19.4	1176/129	19	0.18
15401101	MD14-HL10-610*610-01/02	610 x 610 x 110	H14	9.9	603/156	13	0.09
15401102	MD14-HL10 914*610-01/02	914 x 610 x 110	H14	14.9	903/155	16	0.18
15401103	MD14-HL10-1219*610-01/02	1219 x 610 x 110	H14	19.9	1205/155	19	0.18
15401104	MD14-HL10 600*600-01/02	600 x 600 x 110	H14	9.6	583/156	13	0.09
15401105	MD14-HL10 905*600-01/02	905 x 600 x 110	H14	14.5	880/155	16	0.18
15401106	MD14-HL10-1210*600-01/02	1210 x 600 x 110	H14	19.4	1176/155	19	0.18
15401201	MD15-HL10-610*610-01/02	610 x 610 x 110	U15	11.5	603/161	13	0.09
15401202	MD15-HL10-914*610-01/02	914 x 610 x 110	U15	17.3	903/160	16	0.18
15401203	MD15-HL10-1219*610-01/02	1219 x 610 x 110	U15	23.1	1205/160	19	0.18
15401204	MD15-HL10-600*600-01/02	600 x 600 x 110	U15	11.2	583/160	13	0.09
15401205	MD15-HL10-905*600-01/02	905 x 600 x 110	U15	16.9	880/160	16	0.18
15401206	MD15-HL10-1210*600-01/02	1210 x 600 x 110	U15	22.6	1176/160	19	0.18
15401401	MX14-HL10 610*610-01/02	610 x 610 x 133	H14	13.4	603/111	13	0.09
15401402	MX14 HL10 914*610-01/02	914 x 610 x 133	H14	20.2	903/110	16	0.18
15401403	MX14-HL10-1219*610-01/02	1219 x 610 x 133	H14	24.0	1205/110	19	0.18
15401404	MX14-HL10 600*600-01/02	600 x 600 x 133	H14	13.1	583/110	13	0.09
15401405	MX14-HL10 905*600-01/02	905 x 600 x 133	H14	19.7	880/110	16	0.18

* Other sizes are available on request.

HEPA/ULPA Panels

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 1822:2002	Media area m ²	Air flow / pressure drop m ³ /h/Pa	Unit weight kg	Unit volume m ³
15401406	MX14-HL10-1210*600-01/02	1210 x 600 x 133	H14	26.3	1176/110	19	0.18
15401501	MX15- HL10-610*610-01/02	610 x 610 x 133	U15	15.4	603/130	13	0.09
15401502	MX15- HL10-914*610-01/02	914 x 610 x 133	U15	23.2	903/130	16	0.18
15401503	MX15- HL10-1219*610-01/02	1219 x 610 x 133	U15	31.0	1205/130	19	0.18
15401504	MX15- HL10-600*600-01/02	600 x 600 x 133	U15	14.9	583/130	13	0.09
15401505	MX15 -HL10-905*600-01/02	905 x 600 x 133	U15	22.5	880/130	16	0.18
15401506	MX15- HL10-1210*600-01/02	1210 x 600 x 133	U15	30.2	1176/130	19	0.18
15403001	MD13-HL12-610*610-01/02	610 x 610 x 110	H13	9.9	603/130	13	0.09
15403002	MD13-HL12-914*610-01/02	914 x 610 x 110	H13	14.9	903/129	16	0.18
15403003	MD13-HL12-1219*610-01/02	1219 x 610 x 110	H13	19.9	1205/129	19	0.18
15403004	MD13-HL12-600*600-01/02	600 x 600 x 110	H13	9.6	583/130	13	0.09
15403005	MD13-HL12-905*600-01/02	905 x 600 x 110	H13	14.5	880/130	16	0.18
15403006	MD13-HL12-1210*600-01/02	1210 x 600 x 110	H13	19.4	1176/129	19	0.18
15403101	MD14-HL12 610*610-01/02	610 x 610 x 110	H14	9.9	603/156	13	0.09
15403102	MD14-HL12 914*610-01/02	914 x 610 x 110	H14	14.9	903/155	16	0.18
15403103	MD14-HL12-1219*610-01/02	1219 x 610 x 110	H14	19.9	1205/155	19	0.18
15403104	MD14-HL12 600*600-01/02	600 x 600 x 110	H14	9.6	583/156	13	0.09
15403105	MD14-HL12 905*600-01/02	905 x 600 x 110	H14	14.5	880/155	16	0.18
15403106	MD14-HL12-1210*600-01/02	1210 x 600 x 110	H14	19.4	1176/155	19	0.18
15403201	MD15-HL12-610*610-01/02	610 x 610 x 110	U15	11.5	603/161	13	0.09
15403202	MD15-HL12-914*610-01/02	914 x 610 x 110	U15	17.3	903/160	16	0.18
15403203	MD15-HL12-1219*610-01/02	1219 x 610 x 110	U15	23.1	1205/160	19	0.18
15403204	MD15-HL12-600*600-01/02	600 x 600 x 110	U15	11.2	583/160	13	0.09
15403205	MD15-HL12-905*600-01/02	905 x 600 x 110	U15	16.9	880/160	16	0.18
15403206	MD15-HL12-1210*600-01/02	1210 x 600 x 110	U15	22.6	1176/160	19	0.18
15403401	MX14-HL12 610*610-01/02	610 x 610 x 133	H14	13.4	603/111	13	0.09
15403402	MX14-HL12 914*610-01/02	914 x 610 x 133	H14	20.2	903/110	16	0.18
15403403	MX14-HL12-1219*610-01/02	1219 x 610 x 133	H14	27	1205/110	19	0.18
15403404	MX14-HL12 600*600-01/02	600 x 600 x 133	H14	13.1	583/110	13	0.09
15403405	MX14-HL12 905*600-01/02	905 x 600 x 133	H14	19.7	880/110	16	0.18
15403406	MX14-HL12-1210*600-01/02	1210 x 600 x 133	H14	26.3	1176/110	19	0.18
15403501	MX15 -HL12-610*610-01/02	610 x 610 x 133	U15	15.4	603/130	13	0.09
15403502	MX15 -HL12-914*610-01/02	914 x 610 x 133	U15	23.2	903/130	16	0.18
15403503	MX15- -HL12-1219*610-01/02	1219 x 610 x 133	U15	31	1205/130	19	0.18
15403504	MX15 -HL12-600*600-01/02	600 x 600 x 133	U15	14.9	583/130	13	0.09
15403505	MX15- -HL12-905*600-01/02	905 x 600 x 133	U15	22.5	880/130	16	0.18
15403506	MX15- -HL12-1210*600-01/02	1210 x 600 x 133	U15	30.2	1176/130	19	0.18

* Other sizes are available on request.

CPXRG - H13



Advantages

- Compact filter-diffuser for clean room
- Room side replaceable
- Gel seal between filter and housing
- Adjustable damper disc
- Individually tested according to EN 1822

Application: Microelectronic, hospitals.

Type: HEPA filter panel with mechanical seal.

Frame: Aluminium profile.

Gel: Polyurethane gel.

Media: Glass fibre.

Separator: Hot-melt.

Sealant: Polyurethane.

Faceguard: Expanded metal, powder coated white RAL 9016.

EN 1822 filter class: H13.

MPPS efficiency: H13: $\geq 99.95\%$.

DOP efficiency: $\geq 99.99\%$.

Temperature: 70°C.

Fire rating: UL 900 Class 2.

Filter

Reference	Model	Filter dimensions (WxHxD) mm	Filter classification EN 1822	Media area m ²	Air flow / pressure drop m ³ /h/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

Housing

Reference	Type	Housing dimensions (WxHxD) mm	Filter dimensions (WxHxD) mm	Collar size ø mm	Unit weight kg	Unit volume m ³
410F-118995001	4CPX-24242-[]	600 x 600 x 140	554 x 554 x 77	ø 250	4.6	0.05
410F-118994002	4CPX-24362-[]	905 x 600 x 140	859 x 554 x 77	ø 250	6.6	0.08
410F-118992001	4CPX-24482-[]	1210 x 600 x 140	1164 x 554 x 77	ø 250	8.6	0.1

*Other dimensions, finishes and different options are available on request.

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Why Molecular Filtration?

Air pollution caused by traffic, manufacturing, power plants, agriculture and even forest fires is a growing problem in our industrialized world.

Molecular gaseous compounds are invisible and all around us. Some of these compounds are so toxic, and yet so hard for us to detect, that they can do us harm with our even realizing we have been exposed.

Unfortunately we are routinely being subjected to such hazardous compounds in our offices, our homes, our cities and even during our leisure time.

The impact of such exposure can be significant. High ozone or volatile organic compound (VOC) levels represent a serious health threat for all of us. At the same time air pollution can damage everything from valuable artifacts in museums to exposed surfaces in our homes and offices.

In manufacturing environments Airborne Molecular Contamination (AMC) can cause a variety of problems. In semiconductor manufacturing, for example, AMC can reduce product yield, corrode valuable optical components and damage a wide range of process equipment.

In other industries, as products and processes become more complex and more sensitive to all types of contamination, the control of AMC will become an ever more critical part of ensuring product quality and improving process yield rates.



Picture: Filter test rig in Camfil AB, Sweden



Gigacheck



Campure Coupon

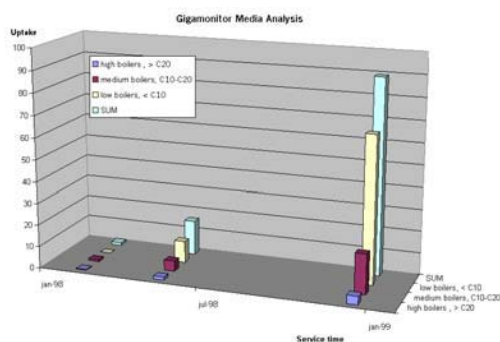
Additional services

Camfil offers a wide range of AMC focused services that allow our customers to remain focused on their core business. These services include filter life time analysis, real time online measurement of contaminants and passive sampling to precisely determine the type and concentration of the problem compounds.

Once local analysis has been completed our AMC experts can propose comprehensive AMC solutions based on the minimum possible Life Cycle Cost available to meet customer needs.

Camfil Farr is the only filter company equipped with a full size filter test facility designed to performance test not just filter media samples but also full size filters under precisely simulated conditions. This full size filter testing is the basis for all our published technical data and can be used to test filter performance against wide and varied range of AMC challenges under precise temperature, humidity and air flow conditions.

This type of performance data can be invaluable when it comes to determining the optimal solution for any specific AMC challenge.



Example: Rest capacity check of a chemical filter in operation

Our "City" - Products

Sick-Building-Syndrome

Sick-Building-Syndrom is the negative impact on health of human beings caused by harmful substances.

The sources of harmful substances are outside e.g. traffic, power plants, industrial manufacturing, forest fires and bacteria. Inside of buildings e.g. furniture's, coatings, carpets and detergents.

All these chemical, harmful substances together can cause headache, fatigue, allergy and decreasing concentration.

Our 2-in-1 principle

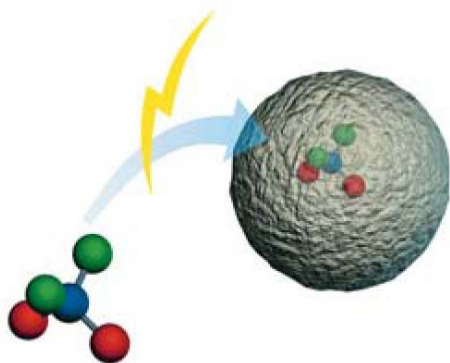
Our CityPleat, CityFlo and CityCarb filter are able to remove particles, bacteria, spores, air pollution and smell. As a result the indoor air quality (IAQ) index is significantly improved.

This improvement is due to:

1. High efficiency particle filtration: filter class F7 / F9 according EN 779.
2. Adsorption of volatile organic compounds (VOC), smell, sulfur dioxide and ozone: High efficiency through RAD principle.

RAD Principle

RAD stands for Rapid Adsorption Dynamics and is the basis for high efficiency gas filtration. Our filters are able to remove effectively smell and gaseous air pollutants. Ozone for instance is removed with an efficiency higher than 90%. Camfil is using best-in class media to achieve a relative long life time in some cases of the filters.



Easy installation

Our filters can be easily installed due to the customer friendly HF frame set. The "City" filters can be normally installed in the existing bag filter frames.

Active against dust, air pollution and smell with only one filter!



Adsorption index of activated carbon



Key:

- 4: A very high level of adsorption
 3: Good index, increased contact time may be needed.
 2: Mediocre index that may require a particularly long contact time or impregnated grades.
 1: Practically no adsorption, another solution must be sought

Adsorption index of Activated Carbon for various types of odour

2 Acetaldehyde	1 Carbon monoxide	3 Ethyl bromide	4 Lubricants	3 Pentylene
4 Acetic acid	4 Carbon tetrachloride	1 Ethylene	4 Medicinal odours	3 Pentylene
4 Acetic anhydride	3 Chlorine	4 Ethylene dichloride	4 Menthhol	4 Perchloroethylene
3 Acetone	4 Chlorobenzene	2 Ethylene oxide	4 Mercaptan 2-4	4 Perfumes, cosmetics
1 Acetylene	4 Chloroform	2 Ethyl mercaptan	1 Methane	4 Perspiration
3 Acids 2-4	4 Chloronitropropane	4 Ethyl silicate	3 Methyl acetate	4 Petrol
3 Acrolein	4 Chloropicrin	4 Eucalyptol	4 Methyl acrylate	4 Phenol
4 Acrylic acid	4 Chloroprene	4 Faecal odours	2 Methyl alcohol	3 Phosgene
4 Acrylonitrile	3 Cigarette smells	3 Farmyard smells	3 Methyl bromide	4 Plastics
4 Adhesives	4 Cleaning solvents	4 Fertiliser	4 Methyl butyl ketone	2 Propane
4 Alcohol 2-4	3 Cooking smells	3 Film developing	3 Methyl chloride	4 Propanol
4 Amines 2-4	4 Creosote	2 Fish odours	4 Methylcyclohexane	2 Propylene
2 Ammonia	4 Cresol	4 Floral odours	4 Methylcyclohexanol	4 Propyl mercaptan
2 Amyl acetate	4 Cyclohexane	2 Formaldehyde	4 Methylcyclohexanone	4 Resins
4 Amyl alcohol	4 Cyclohexanol	3 Formic acid	4 Methylene chloride	4 Rubber
4 Amyl ether	4 Cyclohexanone	3 Freon	3 Methyl ether	2 Slaughterhouse
3 Anaesthetics	4 Cyclohexene	4 Gangrene smell	4 Methyl ethyl ketone	3 Soap
4 Aniline	4 Deodorants	4 Garlic	4 Methyl isobutyl ketone	3 Solvents
4 Animal carcasses	4 Detergents	4 Heptane	4 Methyl mercaptan	4 Styrene monomer
3 Animal odours	4 Dibromoethane	4 Heptylene	4 Monochlorobenzene	2 Sulphur components
4 Antiseptics	4 Dichlorobenzene	3 Hexane	4 Naphtha (coal tar)	2 Sulphur dioxide
4 Asphalt fumes	4 Dichloroethane	3 Hexylene	4 Naphtha (oil)	4 Sulphuric acid
3 Bathroom smells	4 Dichloroethylene	3 Hospital odours	4 Naphthalene	3 Sulphur trioxide
4 Benzene	4 Diesel fumes	4 Household smells	4 Nicotine	4 Tar
3 Bleaching solutions	3 Diethylamine	1 Hydrogen	3 Nitric acid	4 Tetrachloroethane
2 Body odours	3 Diethyl ketone	2 Hydrogen bromide	4 Nitrobenzene	4 Tetrachloroethylene
4 Bromine	4 Dimethylaniline	2 Hydrogen chloride	4 Nitroethane	3 Tetrahydrofuran
4 Burnt flesh	4 Dimethylsulfate	2 Hydrogen cyanide	2 Nitrogen dioxide	4 Tobacco odours
3 Butadiene	4 Dioxane	2 Hydrogen fluoride	4 Nitroglycerine	4 Toilet smells
2 Butane	4 Dipropyl ketone	3 Hydrogen iodide	4 Nitromethane	4 Toluene
4 Butanone	4 Disinfectants	2 Hydrogen sulphide	4 Nitropropane	4 Trichloroethylene
4 Butyl acetate	4 Embalming products	4 Incense	4 Nitrotoluene	4 Urea
4 Butyl alcohol	4 Essential oils	3 Industrial waste	4 Nonane	4 Uric acid
4 Butyl chloride	1 Ethane	4 Iodine	4 Octane	4 Vehicle exhaust
2 Butylene	3 Ether	4 Iodoform	4 Onions	4 Vinegar
4 Butyric acid	4 Ethyl acetate	3 Isoprene	4 Ozone	2 Vinyl chloride
4 Camphor	4 Ethyl acrylate	4 Isopropyl acetate	4 Paint odours	2 Wood alcohol
4 Caprylic acid	2 Ethyl alcohol	3 Isopropyl alcohol	4 Paradichlorobenzene	4 Xylene
3 Carbon disulphide	3 Ethylamine	4 Kerosene	3 Pentane	
1 Carbon dioxide	4 Ethylbenzene	4 Lactic acid	4 Pentanone	

CityPleat



Advantages

- Compact "2 in 1" solution
- Double action: particle and odour filtration
- Ideal for filtering most low concentration interior and exterior pollutants
- 100% incinerable
- Can be used to upgrade existing installations
- Range of standard sizes

Application: High efficiency particle filtration for deodorisation and removal of gas pollutants, used for filtration in offices, airports.

Type: Prefilter for gas and particles removal.

Frame: Moisture resistant cardboard.

Media: Synthetic fibre and broad spectrum carbon.

EN 779:2002 filter class: G4.

ASHRAE 52.2:1999 filter class: MERV 7.

Recommended temperature: 0 - 40°C.

Recommended relative humidity: 30 - 70%.

Recommended final pressure drop: 250 Pa.

Maximum final pressure drop: 250 Pa.

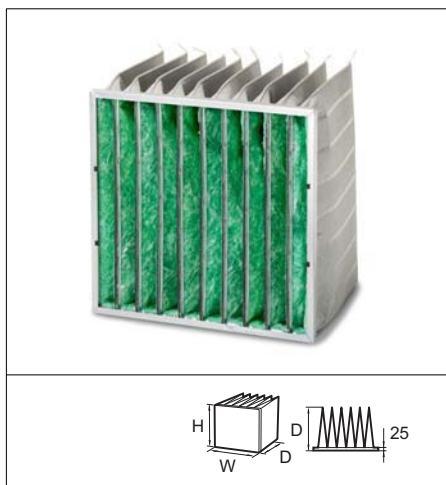
Ozone removal efficiency: 25 - 70% depending on model.

All values are +15%.

Reference	Model	Dimensions (WxHxD) mm	Particle removal filter class	Ozone removal efficiency at rated airflow (%)*	Air flow / pressure drop m³/hr/Pa	Unit weight kg	Unit Volume m³
5103001	CityPleat-100-594x594x44	594 x 594 x 44	G4	25%	1900/135	1.0	0.019
5103007	CityPleat-100-289x594x44	289 x 594 x 44	G4	85%	900/135	0.5	0.010
5103005	CityPleat-200-594x594x44	594 x 594 x 44	G4	50%	3175/135	1.8	0.019
5103004	CityPleat-200-289x594x44	289 x 594 x 44	G4	50%	1500/135	0.9	0.10
5103011	CityPleat-200-594x594x95	594 x 594 x 95	G4	50%	3175/90	2	0.039
5103008	CityPleat-200-289x594x95	289 x 594 x 95	G4	50%	1500/90	1	0.019
5103010	CityPleat-480-594x594x95	594 x 594 x 95	G4	70%	3175/50	3.8	0.039
5103009	CityPleat-480-289x594x95	289 x 594 x 95	G4	70%	1500/50	1.9	0.019

*Full size test in Camfil Farr molecular filtration test rig.

City-Flo



Advantages

- Double action: particle and molecular filtration
- Range of standard sizes
- Can be used to upgrade existing installations
- Ideal for filtering most low concentration interior and exterior pollutants
- Robust metal header frame

Application: Particle and odour removal in Hospitals, Offices, Airports etc.

Type: Multi pocket particle and gas filter.

Frame: Galvanised steel.

Media: Glass fibre and broad spectrum carbon (RAD).

EN 779:2002 filter class: F7.

ASHRAE 52.2:1999 filter class: MERV 13.

Recommended temperature: 50°C maximum in continuous service.

Recommended relative humidity: 70% RH maximum.

Holding frames: Front and side access holding frames are available: Type 8 and FC Housings.

Recommended final pressure drop: 250 Pa.

Maximum final pressure drop: 450 Pa.

Ozone removal efficiency: 80%.

Filter also available with F9 media.

Reference	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Ozone removal efficiency at rated airflow (%)*	Number of pockets	Media area m ²	Air flow/pressure drop m ³ /hr/Pa	Unit weight kg	Unit volume m ³
604001	592x592x534	F7	80	10	6.2	3400/140	6	0.05
604003	490x592x534	F7	80	8	5	2550/140	4.6	0.05
604002	287x592x534	F7	80	5	3.1	1700/145	3,5	0.03

Two filters in one

Well known bag filter construction is now available with a particle and gas filtration layer. The frame components are made of galvanized sheet metal to ensure a robust construction.

Ultimate solution

City-Flo is the ultimate solution when a high performance bag filter and a high performance odour removal filter are needed in the same encapsulated space. The filter can be easily fitted into new or existing standard filter frames. High performance Camfil Farr glass fibre media is now combined with an exclusive broad spectrum carbon media that utilises the benefits of RAD (Rapid Adsorption Dynamics) to remove a wide range of VOCs and odours.

1. Highly effective filtration: Classed as F7 according to EN779:2002, 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 very high efficiencies for ozone, Polyaromatic Hydrocarbons (PAH) and organic contaminants, which are the main pollutant in urban environments.

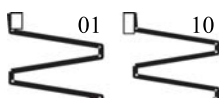
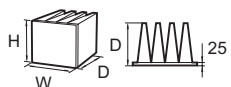
Service life

The filter can be replaced when pressure loss exceeds the maximum allowed value for the ventilation system or after a maximum of one year.

Maintenance

Following good practice for all filters, used City-Flo filters should be bagged immediately after removal from the unit and disposed of by the appropriate route.

CityCarb®



Advantages

- Compact "2 in 1" solution
- Double action: particle and molecular filtration
- Ideal for filtering most low concentration interior and exterior pollutants
- 100% incinerable
- Can be used to upgrade existing installations
- Range of standard sizes

Application: High efficiency particle filtration for deodorisation and removal of gas pollutants, used for filtration in e.g. offices, airports and industrial workshops.

Type: High efficiency, activated carbon, incinerable filter.

Frame: Polypropylene.

Media: Synthetic fibre and broadspectrum carbon (RAD).

Sealant: Polyurethane.

Gasket: Seamless PU gasket.

EN 779:2002 filter class: F7.

ASHRAE 52.2:1999 filter class: MERV 13.

Recommended temperature: 50°C maximum in continuous service.

Recommended relative humidity: 70% RH maximum.

Maximum flow rate: 4000m³/h.

Mounting system: "Camfil holding frame" frames in kit form, FC type housings.

Recommended final pressure drop: 250 Pa.

Maximum final pressure drop: 450 Pa.

Ozone removal efficiency: 90%.

Reference	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m ²	Type of carbon	Air flow/initial pressure drop m ³ /h/Pa	Unit weight kg	Unit Volume m ³
56700001	592x592x292	F7	8	RAD	3400/120	9.8	0.13
56700010	592x490x292	F7	6.6	RAD	2800/120	8.2	0.13
56700002	592x287x292	F7	3.5	RAD	1400/120	4.9	0.06

CityCarb is specifically designed to handle common substances found in atmospheric contamination:

Volatile Organic Compounds (VOC's) are caused by vehicle exhaust, solvents and aerosols.

PAH and ozone is caused by vehicle emissions

Butadiene 1.3 is caused by vehicle emissions.

Some of these molecules are included in the calculation of the atmospheric pollution index.

1. Highly effective filtration: Classed as F7 according to EN 779:2002, 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 very high efficiencies for ozone, Polyaromatic Hydrocarbons (PAH) and organic contaminants, which are the main pollutant in urban environments.

The filter can be replaced when pressure loss exceeds the maximum allowed value for the ventilation system or after a maximum of one year.

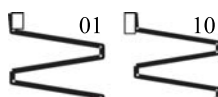
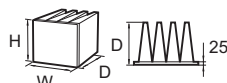
Following good practice for all filters, used CityCarb filters should be bagged immediately after removal from the unit and disposed of by the appropriate route.

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 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 is also available with a media for acid removal.

CitySorb



Advantages

- Compact solution
- Range of standard sizes
- Rigid design concept
- High efficiency
- Large air flow capacity
- Constant pressure drop
- Incinerable

Application: Adsorption of odours and gasses in air conditioning applications.

Type: Rigid pleated filter.

Frame: Polystyrene.

Media: Multilayer carbon media.

Sealant: Polyurethane.

Gasket: Seamless PU gasket.

Recommended temperature range: 0 - 40°C.

Recommended relative humidity: < 70% RH.

Recommended pressure drop: Constant if filter is protected by F7 particle filtration.

Holding frames: Front and side access housings and frames are available, Type 8 and FC Housings.

Ozone removal efficiency: 70%.

Reference	Dimensions (WxHxD) mm	Media area m ²	Type of Carbon	Air flow / pressure drop m ³ hr/Pa	Unit weight kg	Unit Volume m ³
56700003	592x592x292	8	RAD	3400/80	10.8	0.13
56700004	592x490x292	6.6	RAD	2800/80	9.2	0.13
56700005	592x287x292	3.5	RAD	1500/80	5.4	0.06

CitySorb is a high-efficiency compact molecular filter for addressing IAQ issues in public and commercial buildings. This filter satisfies demands to tackle nuisance odours such as PAH, ozone and butadiene 1.3 caused by vehicle emissions and VOCs from vehicle exhaust, solvents and aerosols and provide occupants with the highest indoor air quality as specified in the European Standard EN 13779. The material selection and construction method ensures that CitySorb is a clean, light filter that is both quick and easy to maintain.

CitySorb uses a special ingredient - RAD

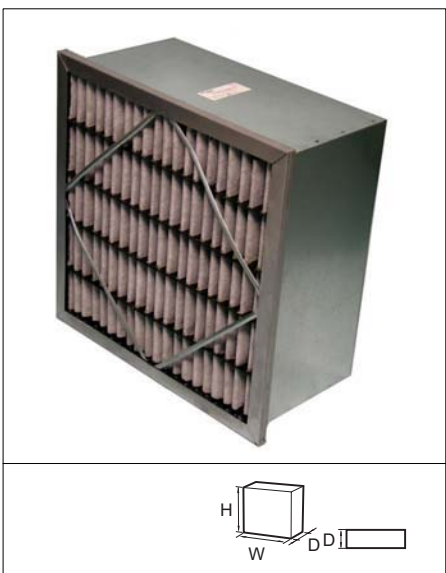
RAD or Rapid Adsorption Dynamic ensures the optimum efficiency of CitySorb. Rather than the amount of carbon (the traditional measure), it is the capacity of this new form to rapidly trap gasses which ensures the advanced performance of CitySorb. The carbon is in the form of very small granules into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

Also available, CitySorb Acid, for more efficient treatment of specific acid molecules.

The filter can be replaced after a maximum of one year or when the smell or problem reappears.

Following good practice for all filters, used CitySorb filters should be bagged immediately after removal from the unit and disposed of by the appropriate route.

RigaCarb



Advantages

- Standard design for removal of acids, alkalines, organic smells and condensable organics.
- Available as box type, single or double header
- Compact solution with low pressure drop

Application: Adsorption of gases for industrial application such as harddisk facilities.

Type: Disposable carbon filter.

Frame: Galvanised steel (other on request).

Media: Type 202: nonwoven fiber material with impregnated carbon for removal of acids and condensable organics. Type 204: nonwoven fiber material with impregnated carbon for removal of alkalines and condensable organics.

Recommended temperature: 0 - 40°C. —

Recommended relative humidity: 30 - 70%.

Particle cleanliness: ISO Class 6.

Reference	Model	WxHxD mm	Media area m ²	Air flow / pressure drop m ³ /h/Pa	Unit weight kg	Unit volume m ³
5640001	RC-202-24-24-12-BH	592 x 592 x 292	6	3400/124	15	0.1
5640010	RC-202-12-24-12-BH	287 x 592 x 292	3.2	1700/124	8	0.05
5640006	RC-202-24-24-12-PH	592 x 592 x 292	6	3400/124	15	0.1
5640004	RC-202-12-24-12-PH	287 x 592 x 292	3.2	1700/124	8	0.05
5640002	RC-204-24-24-12-BH	592 x 592 x 292	6	3400/124	15	0.1
5640012	RC-204-12-24-12-BH	287 x 592 x 292	3.2	1700/124	8	0.05
5640011	RC-204-24-24-12-PH	592 x 592 x 292	6	3400/124	15	0.1
5640005	RC-204-12-24-12-PH	287 x 592 x 292	3.2	1700/124	8	0.05

BH: Double Header; PH: Single Header

CamSure



Advantages

- Range of standard and non standard sizes
- High performance
- Suitable for a wide range of air volumes

Application: Adsorption of odours and gases in air conditioning applications.

Type: Loose fill adsorbent panels.

Frame: Galvanised steel.

Media: Campure or activated carbon based materials.

Temperature: 40°C maximum in continuous service.

Recommended relative humidity: 30 - 70%.

Mounting systems: Front and side access housings and frames are available.

Reference	Model	Dimensions (WxHxD) mm	Air flow / pressure drop m ³ /hr/Pa	Unit weight (kg)	Unit volume m ³
5100003	RS80-D-LGS048	594 x 594 x 47	850/70	7.5	0.017
5100004	RS80-D-LGS048	594 x 289 x 47	425/70	4	0.0083

Above are sample sizes, filters are available in a comprehensive range of sizes, please specify.

Also available with stainless steel case.

Efficient gas filtration with CamCarb

Advanced, high capacity media is used in the CamCarb cylinders to remove smell, corrosive and toxic gases as well as organics in make-up and exhaust air applications.

CamCarb design

Camfil Farr offers a wide range of high efficient media tailored to the customer requirements. Camfil Farr experts select the right CamCarb model and the best suitable media based on lowest cost-of-ownership to fulfill customer requirements. .

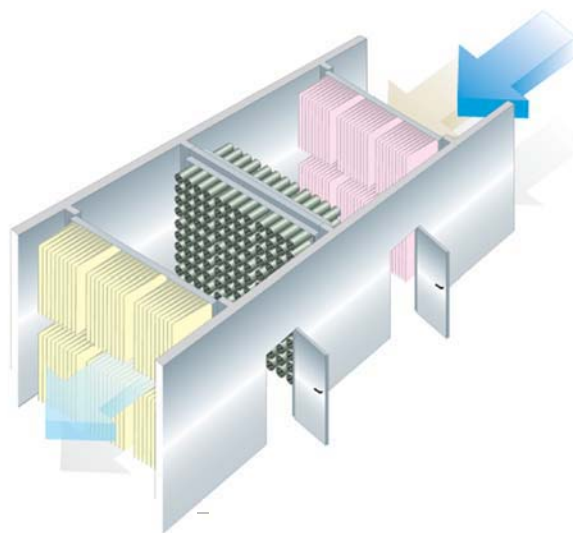
Non impregnated activated carbon is typically used to remove volatile organic compounds (VOC) including smell whereas typically impregnated activated carbon is used to remove acidic, caustic and corrosive gases.

Multiple gas filtration with one, two or three filter stages in series can be achieved in applications with unknown gas mix or when for instance VOC's acids and bases are present in the same air stream. Media blends are also available

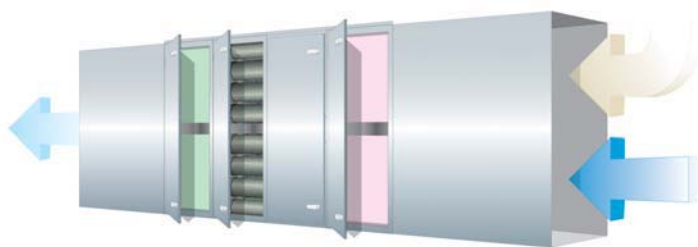
A special designed holding plate system is used as installation frame for the CamCarb cylinders (CamCarb and CamCarb green). The system is available in three different standard sizes.

It is recommended to use a F7 pre-filter to protect the CamCarb syst against particle contamination. Particles in the air block the micro po of the high efficient activated carbon resulting in rapid performance decrease.

Enforcement of the holding plates is required in big scale CamCarb installations (e.g. make-up air unit). Camfil Farr offers the right stabilization solution with the RZA/MZA modular frame set.



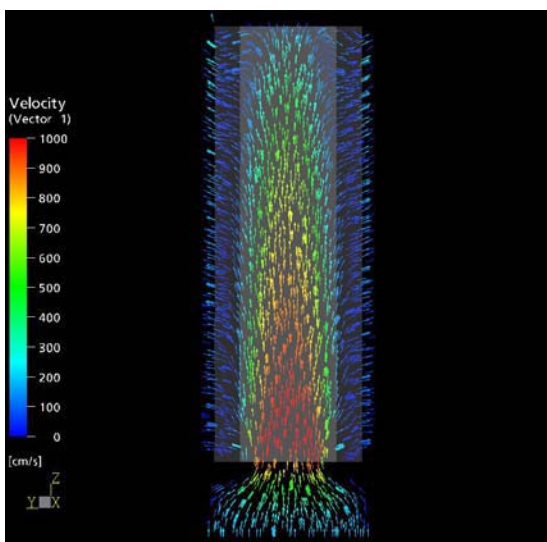
Example of RZA/MZA modular frame set system



Application in make-up air unit

CamCarb air flow distribution

Camfil did CFD (Computer Fluid Dynamics) simulations to design the Camcarb cylinder to achieve a uniform air flow distribution through the media resulting in longer life time compared to competitor products.



CamCarb® Green



Advantages

- Completely incinerable
- Low pressure drop
- Reduced weight
- Conical inlet
- Two integral moulded TPE gaskets
- Rapid bayonet fitting system
- Corrosion resistant
- High performance

Application: Adsorption of odours, VOC's and / or low toxicity gases for airports, museums, kitchens, hospitals or clean room industry.

Type: Cylindrical carbon cartridge in ABS and HDPE.

Temperature: 40°C maximum in continuous service.

Recommended relative humidity: 30 - 70%.

Mounting system: Camcarb mounting frame, FC-CC housings.

Adsorbent: "Broad Spectrum" activated carbon, adsorption of odours, ozone and organic gases. Impregnated activated carbon or campure impregnated alumina for adsorption of both organic and inorganic gases.

Reference	Model	Dimensions (Ø, L) mm	Adsorbent volume L	Adsorbent type	Airflow/ pressure drop m³/h/Pa for 16 cylinders	Unit weight kg
56800005	Camcarb G 2600 - LGS036	147x450	4.3	LGS036 Coconut shell activated carbon granules	2600/120	2,7
56800004	Camcarb G 3500 - LGS036	147x600	5.7	LGS036 Coconut shell activated carbon granules	2600/110 3400/175	3,7
56800006	Camcarb G 2600 - CEX003	147x450	4.3	Coal activated carbon pellets	2600/120	2.7
56800007	Camcarb G 3500 - CEX003	147x600	5.7	Coal activated carbon pellets	2600/110 3400/175	3.7

*Other media options are available on request.

CamCarb® Mounting Frames



Advantages

- Modular design adaptable for all types of installations
- Reduced weight
- Rapid fitting system via bayonet fitting
- Quick and easy service

Application: Assembly of Camcarb cylinders.

Type: Quick bayonet-mounted support frame for Camcarb cylinders.

Design: Galvanised steel or stainless steel.

For filters: Camcarb cylinders (Green or Metal).

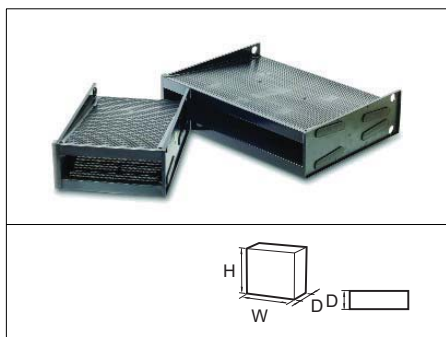
Mounting: Bayonet locking.

Type	Model	Dimensions (WxHxD) mm	Cylinder capacity	Unit weight kg	Unit volume m ³
Camcarb	Frame G8 SS	305x610x70	8	5	0.02
Camcarb	Frame G12 SS	457x610x70	12	5.7	0.03
Camcarb	Frame G16 SS	610x610x70	16	6	0.04

RZA, MZA and ZWB installation accessories are also available on request



CamPure® GDM Green Disposable Modules



Advantages

- Completely incinerable
- Low pressure drop
- Various medias available dependent upon the contaminant(s) of concern
- Retrofit of existing installations

Description: Disposable plastic adsorber module designed to remove corrosive gases from industrial or commercial environments.

Typical application: Existing side-access housings or built up bank assemblies.

Efficiency: Media selection dependent, consult factory.

Adsorbent: "Broad Spectrum" activated carbon, adsorption of odours, ozone and organic gases. Impregnated activated carbon or campure impregnated alumina for adsorption of both organic and inorganic gases.

Temperature: Maximum continuous operating temperature of 50°C.

Recommended relative humidity: 30 - 90%.

Model	Dimensions (WxHxD) mm	Air flow / pressure drop m ³ /h/Pa	Media volume	Application
GDM 300F	600x295x300	425/75	27L	Make up air-handling units (MUA), recirculation air handling units, exhaust.
GDM 300H	300x295x300	212/75	13.5L	Make up air-handling units (MUA), recirculation air handling units, exhaust.
GDM 440F	600x145x440	700/50	13.5L	Make up air-handling units (MUA), recirculation air handling units, exhaust.
GDM 440H	300x145x440	350/50	6.75L	Make up air-handling units (MUA), recirculation air handling units, exhaust.

*Housings are available on request.

Activated Carbon and 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 media range comprises chemically impregnated adsorbents based on activated alumina which may be use 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 applications include the control of acidic and odourous gases in waste water treatment applications and the protection of sensitive artefacts in museums and art galleries.

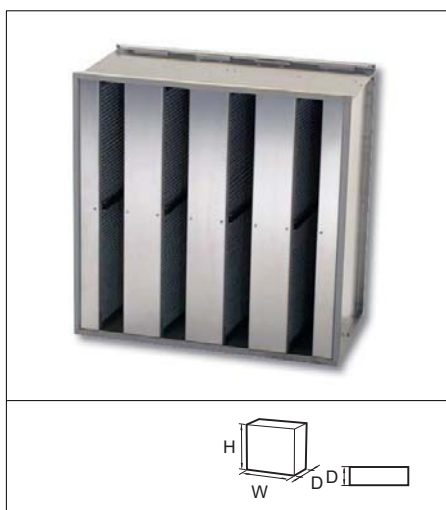


Flexible filtration solutions and support services

Activated carbon and 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. Activated carbon and campure medias may be re-filled directly into other manufacturers hardware. These medias are supported 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
CEX003 CEX004	VOCs, hydrocarbons, general odours	Extruded activated carbon, 3 and 4mm diameter (coal based)
LGS036 LGS048	Light VOCs, hydrocarbons, general odours	Granular activated carbon (coconut shell based)
Impregnated Carbon	Acids, Alkalines, etc.	A wide range of impregnation is available.
Campure 4	H ₂ S, SO ₂ , NOX, formaldehyde, ethylene, light VOCs, Blow mol. Wt. aldehydes and organic acids	H ₂ S, SO ₂ , NOX, formaldehyde, ethylene, light VOCs, low mol. Wt. aldehydes and organic acids
Campure 5	Halogens, halogen acids and organic halides	Activated alumina with chemical impregnation
Campure 8	Enhanced removal of H ₂ S, SO ₂ , NOX, formaldehyde, ethylene, acid gases	Activated alumina with chemical impregnation
Campure 15	H ₂ S, SO ₂ , mercaptans, acid gases, chlorine	Activated alumina and activated carbon with chemical impregnation
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 characteristics. The usual blend ratio is 50/50 by volume.	
See individual data sheets for grade specifications		

Gigapleat XPC



Advantages

- Reduced waste through re-usable housing.
- Exchangeable panels
- Dual layer solution for removal of multiple gases (acids, alkalines, sulfur and organic compounds)
- Compact solution
- High media cleanliness

Application: Clean room recirculation air and clean room make up air.

Type: Compact filter with exchangeable panels.

Housing: Stainless steel. Removable sheet metal profiles for panel replacement.

Gasket: Polyurethane gasket. Position: 01 - downstream, 10 - upstream.

Sealant: Polyurethane.

Configuration: 2 layers of 8 panels / full size housing.

Recommended temperature range: 10 - 40°C.

Recommended relative humidity: 30 - 70%.

Particle cleanliness: ISO Class 6.

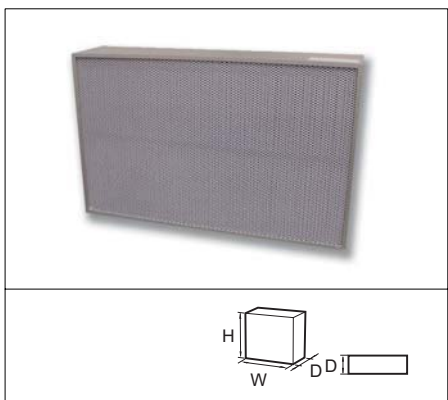
Reference	Type	Model	Dimensions (WxHxD) mm
56600000	housing	Gigapleat XPC 610x610x292 s/s Housing	610 x 610 x 292
56600002	housing	Gigapleat XPC 305x610x292 s/s Housing	305 x 610 x 292

Reference	Model	Dimensions (mm)	Typical pressure drop	Target Gas
56300016	XPC A2 Panel	For housing 610x610x292	2600/95	Impregnated activated carbon for alkalines/organic condensables/Ozone
56300004	XPC B46 Panel	For housing 610x610x292	2600/95	Ion exchange resin for alkalines
56300003	XPC C2 Panel	For housing 610x610x292	2600/95	Impregnated activated carbon for general acids/sulfur compounds/organic condensables/Ozone
56300015	XPC C3 Panel	For housing 610x610x292	2600/95	Impregnated activated carbon for strong acids like HCl, HF/organic condensables/Ozone
56300011	XPC L3 Panel	For housing 610x610x292	2600/95	Activated carbon for organic condensables/Ozone

*Other media types are available on request.

AMC vs Media Type	L	B	A	C
Acids				YES
Bases		YES	YES	
Condensables (B.Pt > 150 deg. C)	YES		Yes	Yes
Dopants (Organophosphates)	YES		Yes	Yes
Dopants (BF3)				YES
Organics (B.Pt < 150 deg. C)	YES			
Ozone	YES		Yes	Yes

Gigapleat NXPP



Advantages

- 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

Application: For cleanroom ceiling, FFU, mini-environment or process equipment.

Type: Panel filter.

Frame: Aluminium.

Media: Pleated ion exchange media, pleated impregnated carbon media for alkaline, acidic and VOC gas removal.

Sealant: Polyurethane.

Gasket: 01=Downstream polyurethane gasket, 10=Upstream polyurethane gasket.

Faceguard: 02: Downstream faceguard; 20: Upstream faceguard.

Recommended temperature range: 10 - 40°C.

Recommended relative humidity: 30 - 70%.

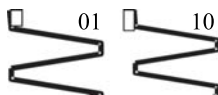
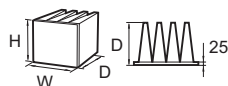
Particle cleanliness: ISO Class 6.

Type	Model	Dimensions (WxHxD) mm	Pressure Loss at 0.4m/s Pa	Performance	Unit weight kg	Unit Volume m³/l
Gigapleat	NXPP-LBC.610x610x165.KD.01/22	610x610x165	40	on request	10	0.061

*Adapter frames for FFU installation are available on request. For filter dimensioning please contact Camfil Farr.

AMC vs Media Type	L	B	A	C
Acids				YES
Bases		YES	YES	
Condensables (B.Pt > 150 deg. C)	YES		Yes	Yes
Dopants (Organophosphates)	YES		Yes	Yes
Dopants (BF3)				YES
Organics (B.Pt < 150 deg. C)	YES			
Ozone	YES		Yes	Yes

Gigapleat NXPB



Advantages

- Low pressure drop
- High media cleanliness
- Plastic frame with high chemical resistance and low out-gassing

Application: Cleanroom make up air, cleanroom redirection air.

Type: Rigid header frame.

Frame: Polystyrene.

Media: Pleated ion exchange media, pleated impregnated carbon media for alkaline, acidic, and VOC gas removal.

Sealant: Polyurethane.

Gasket: Polyurethane gasket. 01= downstream, 10 = upstream.

Recommended temperature range: 10 - 40°C.

Recommended relative humidity: 30 - 70%.

Particle cleanliness: ISO Class 6.

Reference	Model	Dimensions (WxHxD) mm	Air flow / pressure drop m³/hr/Pa	Approximate unit weight kg	Unit Volume m³
56000003	NXPH-A2 242412-01PU	592x592x292	2600/60	12	0.13
56002000	NXPH-A2 241212-01PU	592x287x292	1100/60	6.5	0.06
56015001	NXPH-B 242412-01PU	592x592x292	2600/50	12	0.13
56015002	NXPH-B 241212-01PU	592x287x292	1100/50	6.5	0.06
56000001	NXPH-C2 242412-01PU	592x592x292	2600/60	12	0.13
56005002	NXPH-C2 241212-01PU	592x287x292	1100/60	6.5	0.06
56005009	NXPH-C3 242412-01PU	592x592x292	2600/60	12	0.13
56005010	NXPH-C3 241212-01PU	592x287x292	1100/60	6.5	0.06
56010009	NXPH-L3 242412-01PU	592x592x292	2600/60	12	0.13
56010005	NXPH-L3 241212-01PU	592x287x292	1100/60	6.5	0.06

*Combination media for removal of particle and gas are also available.

For media table, please refer to Gigapleat XPC, NXPP or NXPC.

Gigapleat NXPC



Advantages

- Low pressure drop
- Long service life
- High media cleanliness

Application: Cleanroom recirculation and MUA applications for AMC removal

Type: Compact box frame.

Frame: ABS, GI, aluminium or stainless steel.

Media: Pleated ion exchange media, pleated impregnated carbon media for alkaline, acidic and VOC gas removal.

Sealant: Polyurethane.

Gasket: Polyurethane gasket, 01 = downstream, 10 = upstream.

Recommended temperature range: 10 - 40°C.

Recommended relative humidity: 30 - 70%.

Particle cleanliness: ISO Class 6.

Model	Dimensions (WxHxD) mm	Air flow / pressure drop m ³ /hr/Pa	Unit weight kg	Unit Volume m ³
GIGAPLEAT.NXPC 610x610x292-B-01PU	610x610x292	2600/50	15	0.13
Combination media for removal of particle and gas are also available.				

AMC vs Media Type	L	B	A	C
Acids				YES
Bases		YES	YES	
Condensables (B.Pt > 150 deg. C)	YES		Yes	Yes
Dopants (Organophosphates)	YES		Yes	Yes
Dopants (BF3)				YES
Organics (B.Pt < 150 deg. C)	YES			
Ozone	YES		Yes	Yes

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Pharmaseal



Advantages

- Combines all the essential functions required for pharmaceutical and biotechnology facilities
- Controls and connections accessible from room side
- Fully welded seams
- Quick filter change
- Capability to isolate the room during filter change

Application: Turbulent airflow clean rooms in pharmaceutical and bio-pharma.

Type: Terminal filter ducted ceiling exhaust housing for HEPA/ULPA filters in clean rooms, gel seal, with individual bubble tight damper.

Construction: 1.6mm aluminium, continuously welded.

Duct connection: Round, fully welded ribbed inlet on top 305mm diameter.

Damper: Individual adjustable bubble tight damper for airflow adjustment and hood bubble tight isolation.

Included functions: Static pressure port.

Damper control with damper position indicator.

Overall efficiency test: downstream sample port.

Ports: Chrome-plated brass quick disconnect.

For filters: MEGALAM HFU H14 or U15 gel seal MD, MX and MG depth.

Filter seal: Immediate airtight seal by knife edge technology and gel seal filters.

Filter mounting: Quick filter change by pre-positioned rotating clamps.

Fastening: Suspended or fixed by 4 hanging pads.

Grille: Stainless steel 304 flush perforated hinged grille, 40% open with 38mm removable trim.

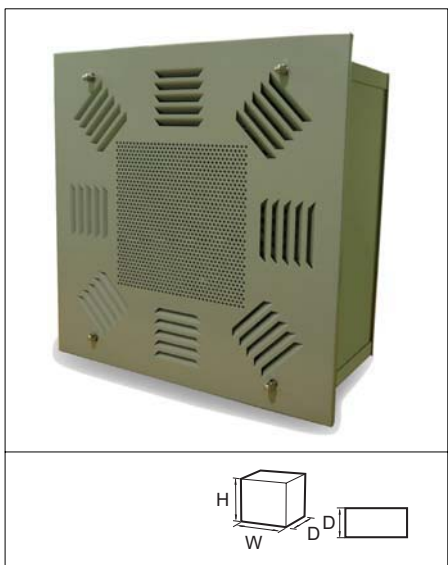
Housing

Reference	Type	Model	Dimensions (WxHxD) mm	Unit weight kg	Unit volume m ³
With complete control set: static pressure port, damper control, overall efficiency port.					
5502.03.50	PHARMASEAL 6P6	PH-25D25D-12D-D-F-12-R-TS-A-C-0-C-2-A-2	641x641x311/305	13	0,17
5502.05.50	PHARMASEAL 12P6	PH-25D49D-12D-D-F-12-R-TS-A-C-0-C-2-A-2	641x1251x311/305	25	0,34

Filter

Type	Dimensions (WxHxD) mm	Filter classification N 1822	Airflow/pressure drop m ³ /h/Pa	Media surface m ²	Unit weight kg	Unit volume m ³
MEGALAM MG15 HFU-2G	552/516x476/440x123	U15	370/80	10,3	7,10	0,200
MEGALAM MG15 HFU-2G	552/516x1086/1050x123	U15	915/80	25,4	11,90	0,460

RFM22



Advantages

- Includes all essential features for pharmaceutical and biotechnology cleanrooms
- Quick filter change
- Capability to isolate the room during filter change
- Controls and connections accessible from room side
- Fully welded seams

Application: Turbulent airflow clean rooms in pharmaceutical and bio-pharma applications.

Type: Turbulent filter ducted ceiling exhaust housing for HEPA/ULPA filters in clean rooms, gel seal, with butterfly damper.

Construction: Powder coated 2.5mm extruded aluminium with fully welded joints.

Filter seal: Gel type using self-healing, non-flowing polyurethane gel approved by Camfil Farr for pharmaceutical cleanrooms.

Duct connection: Seamless aluminium collar sealed airtight to the back plate.

Damper: Room side adjustable heavy duty butterfly assembly with air diffusion disk for even airflow distribution.

Challenge aerosol: Quick-connect airtight stainless steel port accessible from room side. Integrated aerosol-dispersion copper disc for even aerosol distribution.

Pressure measurement: A quick-connecting snap-in airtight stainless steel port for static pressure measurement accessible from the room side. This port can also be used for sampling aerosol from upstream HEPA in order to determine if the upstream aerosol concentration is good enough for site scanning test downstream the HEPA face.

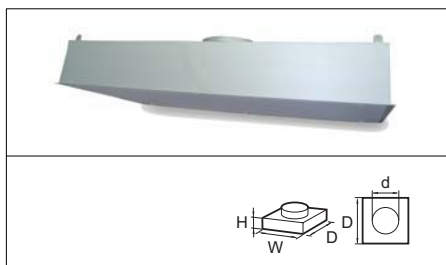
Faceguard: Powdercoated aluminium with 4-way blades and center area perforated.

Installation: Suspended by 4 lifting eyes or rested on ceiling grid.

Article number	Model	Housing size (A x B x H)mm	HEPA size (W x H x D) mm	Collar size (K) mm	Rated air flow / pressure drop m3/h/Pa	Efficiency 0.3um
4140001C	RFM-1090x695-MXA-TS-A11-O-C14	1090x695x230	1030x635x100	350	2000 / 215	99.99%
4140009C	RFM-1007x550-MXA-TS-A11-O-C14	1007x550x230	947x490x100	350	1500 / 215	99.99%
4140002C	RFM-822x695-MXA-TS-A11-O-C14	822x695x230	762x635x100	350	1500 / 215	99.99%
4120007C	RFM-695x695-MXA-TS-A11-O-C12	695x695x230	635x635x100	305	1250 / 215	99.99%
4120006C	RFM-695x580-MXA-TS-A11-O-C12	695x580x230	635x520x100	305	1000 / 215	99.99%
4140005C	RFM-550x550-MXA-TS-A11-O-C12	550x550x230	490x490x100	305	740 / 215	99.99%
4120005C	RFM-476x476-MXA-TS-A11-O-C12	476x476x230	416x416x100	305	500 / 215	99.99%

Terminal Filter Housings

Sofdistri



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

Applications: Clean areas with supply and extract systems.

Type: Terminal housing for HEPA/ULPA filters.

Mounting: By integrated suspension eyes or rested in ceiling grid.

Construction: Anodized Aluminium frame, GI and 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 sheet.

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/11/1(A1)	1194 x 594 x 175	1114 x 514 x 66	16.3	0.22

*Other dimensions, finishes and different option are available.