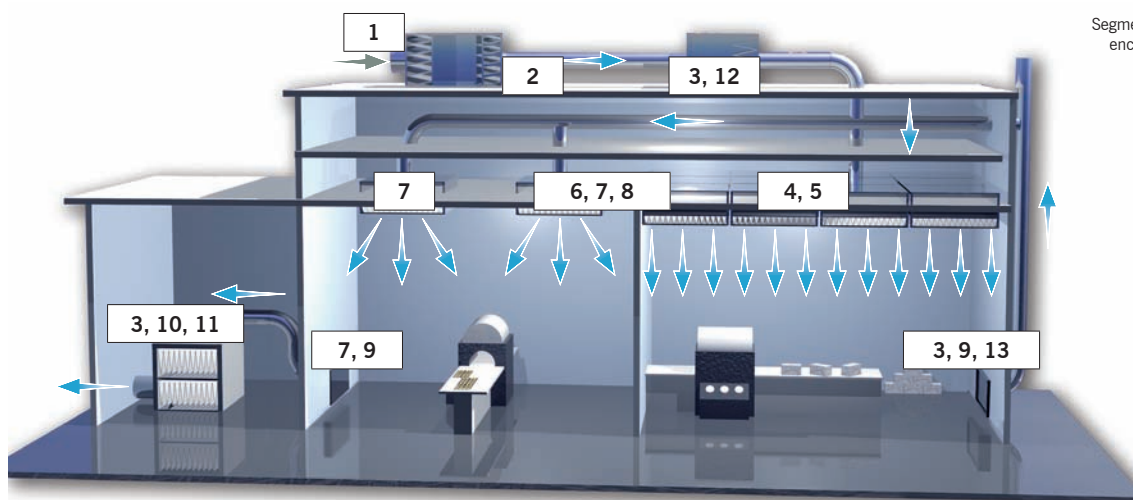


## Pharmaceutical Industry

For more than forty years Camfil Farr has been a leading supplier of air filter products and services to the Bio-Pharma Industry. Many of our clients have multiple facilities located around the world. Camfil Farr is viewed by many of the largest pharmaceutical manufacturers as a partner and well positioned to support their air filtration demands on a local and global basis.



Segment brochure enclosed on CD



Air Filter Technology

Pre-filtration,  
Class G3 to F5

## Pharmaceutical Industry recommendations



1. 30/30



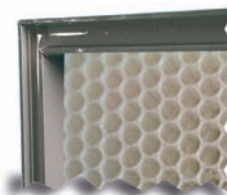
2. Hi-Flo



3. Sofilair H13



4. CamGrid



5. Megalam T "U"



6. Sofdistri



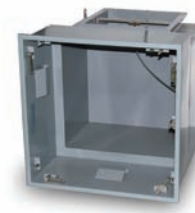
7. DC Bibo



8. Pharmaseal AP 9



9. Pharmatain



10. Pharmaseal Exhaust AP



11. Airopac/Opakair



12. FC - Filter Casing



13. Ecopleat/Airopac Green

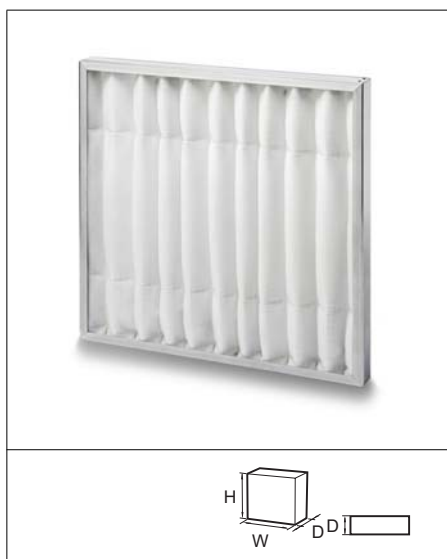
Bag and Compact Filters,  
Class F5 to F9

HEPA / ULPA Filters,  
Class E10 to U17

Molecular Filtration

Frames, housings  
and speciality filters

## Media Holding Frame (MHF)



### Advantages

- Suitable for high humidity conditions
- Progressively built-up thermal bonded polyester fibre
- Replaceable filter media

**Application:** Prefiltration of dust and dirt on air handling units.

**Type:** Nonwoven media, pleated with a wire support grid.

**Frame:** Galvanized steel.

**Media:** Polyester fibre.

**EN 779:2002 filter class:** G3, G4.

**ASHRAE 52.2:1999 filter class:** MERV 6, MERV 7.

**Recommended final pressure drop:** 250 Pa.

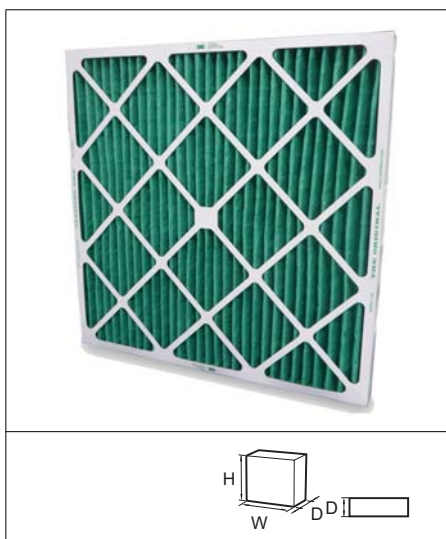
**Temperature:** 80°C - 100°C.

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

**Fire rating:** DIN 53438 class F1.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m <sup>2</sup>	Air flow / pressure drop m <sup>3</sup> /hr/Pa	Unit weight (kg)	Unit volume m <sup>3</sup>
5402501	MHF 24x24x2-G3	594 x 594 x 46	G3	0.57	3400/103	1.35	0.018
5402502	MHF 12x24x2-G3	289 x 594 x 46	G3	0.3	1700/149	0.77	0.009
5402001	MHF 24x24x2-G4	594 x 594 x 46	G4	0.57	3400/113	1.35	0.018
5402002	MHF 12x24x2-G4	289 x 594 x 46	G4	0.3	1700/161	0.77	0.009

## 30/30®



## Advantages

- High mechanical strength
- Fully supported media bonded onto a wire support grid
- Rigid, water resistant cardboard frame
- Large media surface
- Unique radial pleat design
- Media bonded into frame to eliminate air bypass

**Application:** Primary filter for air conditioning systems.

**Type:** High performance disposable pleated panel filter.

**Frame:** Rigid water resistant cardboard.

**Media:** Mixture of cotton and synthetic fibre.

**EN 779:2002 filter class:** G4.

**ASHRAE 52.2:1999 filter class:** MERV 8.

**Recommended final pressure drop:** 250 Pa.

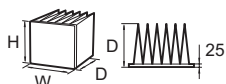
**Temperature:** 70°C maximum in continuous service.

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

**Fire rating:** UL 900 Class 2.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Media area m <sup>2</sup>	Air Flow / pressure drop m <sup>3</sup> /hr/Pa	Unit weight kg	Unit volume m <sup>3</sup>
54862001	Pleated Panel	30/30 2 20x16x1	394x495x22	G4	0.50	1326/58	0.3	0.006
54862002	Pleated Panel	30/30 2 20x20x1	495x495x22	G4	0.61	1649/58	0.4	0.007
54862003	Pleated Panel	30/30 2 25x20x1	495x622x22	G4	0.74	2066/58	0.55	0.008
54862004	Pleated Panel	30/30 2 25x16x1	394x622x22	G4	0.62	1649/58	0.42	0.007
54862005	Pleated Panel	30/30 2 24x24x1	597x597x22	G4	0.91	2380/58	0.6	0.010
54862010	Pleated Panel	30/30 2 24x12x1	292x597x22	G4	0.46	1190/58	0.3	0.005
54862011	Pleated Panel	30/30 2 24x20x1	495x597x22	G4	0.74	1981/58	0.53	0.008
49880001	Pleated Panel	30/30 2 20x16x2	394x495x44	G4	0.92	1870/78	0.44	0.011
49880002	Pleated Panel	30/30 2 20x20x2	495x495x44	G4	1.11	2363/78	0.55	0.013
49880003	Pleated Panel	30/30 2 25x20x2	495x622x44	G4	1.39	2958/78	0.7	0.017
49880004	Pleated Panel	30/30 2 25x16x2	394x622x44	G4	1.15	2363/78	0.55	0.014
49880005	Pleated Panel	30/30 2 24x24x2	594x594x44	G4	1.61	3400/78	0.78	0.019
49880006	Pleated Panel	30/30 2 24x12x2	289x594x44	G4	0.78	1700/78	0.4	0.010
49880009	Pleated Panel	30/30 2 20x14x2	343x495x44	G4	0.77	1658/78	0.25	0.010
49880012	Pleated Panel	30/30 2 24x20x2	495x594x44	G4	1.31	2839/78	0.45	0.016
49880015	Pleated Panel	30/30 2 24x18x2	444x594x44	G4	1.16	2550/78	0.45	0.014
49880017	Pleated Panel	30/30 2 24x16x2	394x594x44	G4	1.10	2270/78	0.55	0.014
59413001	Pleated Panel	30/30 2 24x24x4	594x594x95	G4	2.58	3400/68	1.45	0.039
59413002	Pleated Panel	30/30 2 24x12x4	289x594x95	G4	1.29	1700/68	0.6	0.019
59413003	Pleated Panel	30/30 2 20x20x4	492x492x95	G4	1.76	2363/68	0.3	0.027
59413004	Pleated Panel	30/30 2 20x16x4	390x492x95	G4	1.46	1870/68	0.25	0.022
59413005	Pleated Panel	30/30 2 25x16x4	390x619x95	G4	1.83	2363/68	0.25	0.027
59413006	Pleated Panel	30/30 2 25x20x4	492x619x95	G4	2.19	2958/68	0.45	0.033
59413008	Pleated Panel	30/30 2 24x20x4	492x594x95	G4	2.11	2839/68	0.45	0.031
59413010	Pleated Panel	30/30 2 25x25x4	619x619x95	G4	2.79	3689/68	0.5	0.044

## Hi-Flo® P-Series



## Advantages

- Large surface area
- Low pressure drop
- Comprehensive range of standard sizes
- Controlled media spacing (CMS)
- Certified performance

**Application:** Air conditioning applications.

**Type:** Extended surface multi pocket bag filter.

**Frame:** Galvanised steel.

**Media:** Glass Fibre.

**EN 779:2002 efficiency:** F6, F7, F8, F9.

**ASHRAE 52.2.1999 efficiency:** MERV 11, MERV 13, MERV 14, MERV 15.

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

**Temperature:** 70°C maximum in continuous service.

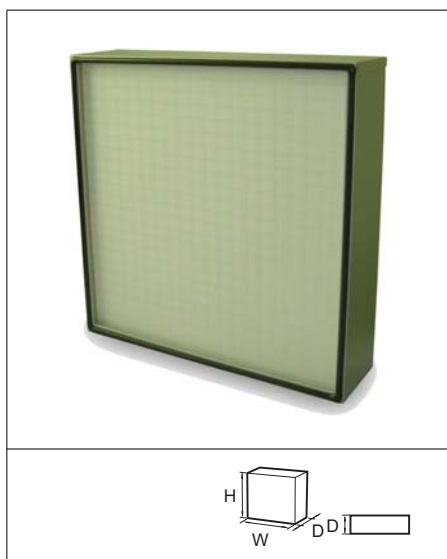
**Holding frames:** Front and side access housings and frames are available, Type 8 and FC Housings.

**Fire rating:** UL 900 Class 2.

Reference	Model	Dimensions (WxHxD) mm	Filter classification EN 779:2002	Number of Pockets	Media area m <sup>2</sup>	Air flow / pressure drop m <sup>3</sup> /hr/Pa	Unit weight kg	Unit volume m <sup>3</sup>
3100009	P6	592 x 592 x 534	F6	10	6.5	3400/70	2.9	0.05
3100010	Q6	490 x 592 x 534	F6	8	5.2	2800/70	2.4	0.05
3100011	R6	287 x 592 x 534	F6	5	3.3	1700/70	1.5	0.03
3100037	P7	592 x 592 x 534	F7	10	6.5	3400/105	2.6	0.05
3100038	Q7	490 x 592 x 534	F7	8	5.2	2800/105	2.4	0.05
3100039	R7	287 x 592 x 534	F7	5	3.3	1700/105	1.6	0.03
3100065	P8	592 x 592 x 534	F8	10	6.5	3400/150	2.4	0.05
3100066	Q8	490 x 592 x 534	F8	8	5.2	2800/145	2.4	0.05
3100067	R8	287 x 592 x 534	F8	5	3.3	1700/140	1.5	0.03
3105008	P9	592 x 592 x 534	F9	10	6.5	3400/150	2.4	0.05
3105010	Q9	490 x 592 x 534	F9	8	5.2	2800/145	2.4	0.05
3105011	R9	287 x 592 x 534	F9	5	3.3	1700/140	1.5	0.03

\* 20mm header frame is 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.

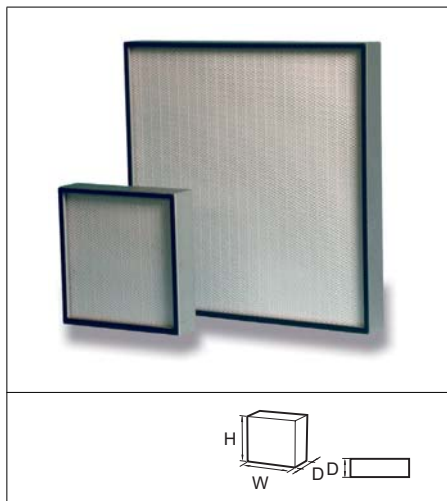
**Fire rating:** DIN 53438 Class F1.

Reference	Type	Model	Dimensions (WxHxD) mm	Filter classification EN 1822	Air flow / pressure drop m³/hr/Pa	Media area m²	Unit weight kg	Unit volume m³
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.



## 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 <sup>2</sup>	Air flow / pressure drop m <sup>3</sup> /hr/Pa	Unit weight kg	Unit volume m <sup>3</sup>
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	MD15- 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.