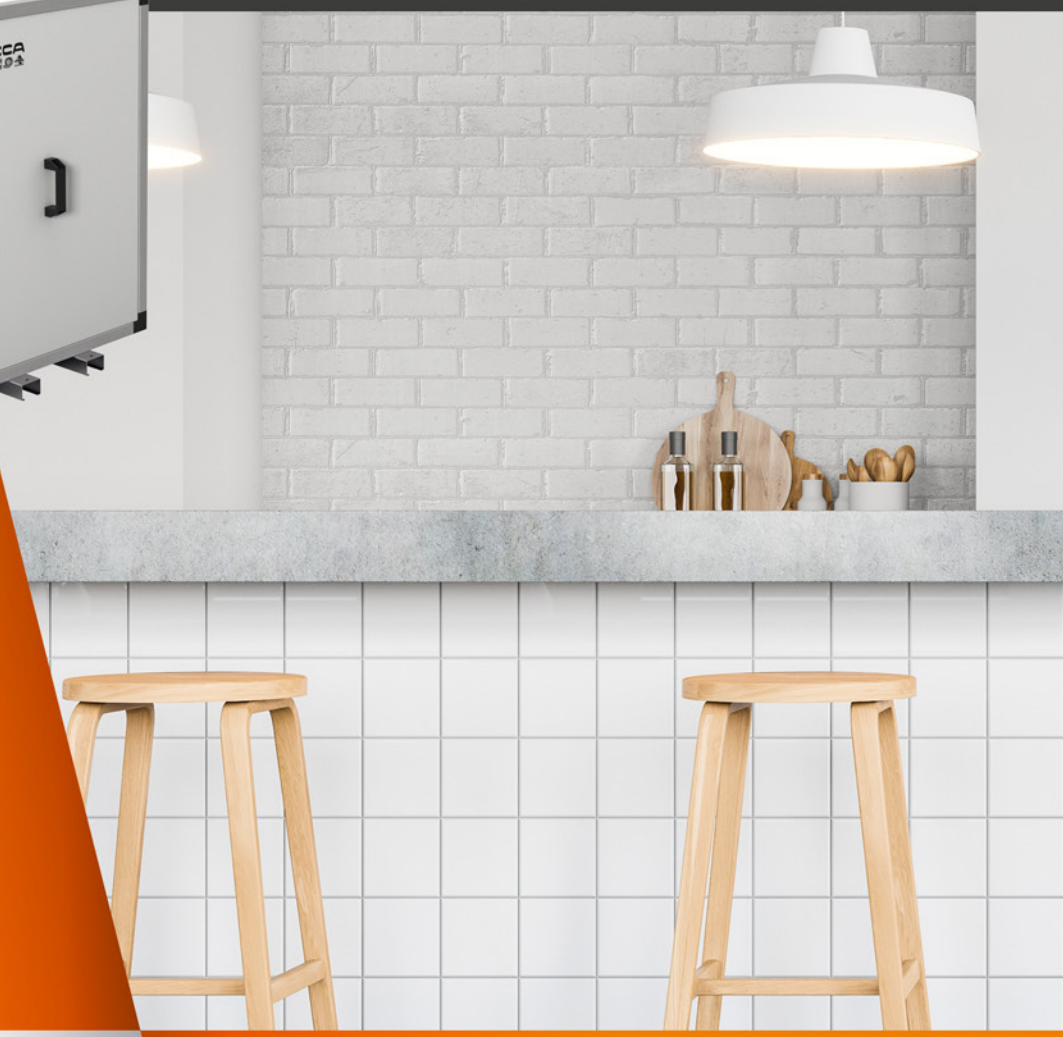
AIR CLEANING AND DISINFECTION MODULES

UNITS WITHOUT A FAN BUT WITH A RANGE OF CLEANING AND DISINFECTING TECHNOLOGIES

- ALUMINIUM PROFILE STRUCTURE
- SIDE PANEL FOR MAINTENANCE ACCESS
- HIGH QUALITY, 25 MM THICK ACOUSTICALLY INSULATED CASING
- PREFINISHED SHEET
- MODULAR CONSTRUCTION



SODECA®

ECOLOGY UNIT

EC TECHNOLOGY

MF
UNITS WITH FILTERS

MCA
UNITS WITH ACTIVATED CARBON FILTERS

MPCO
UNITS WITH PHOTOCATALYSIS TECHNOLOGY

MFE
UNITS WITH ELECTROSTATIC FILTERS

UNITS WITHOUT A FAN BUT WITH A RANGE OF CLEANING AND DISINFECTION TECHNOLOGIES

MF

Filter units without a fan but offering various filter options

MCA

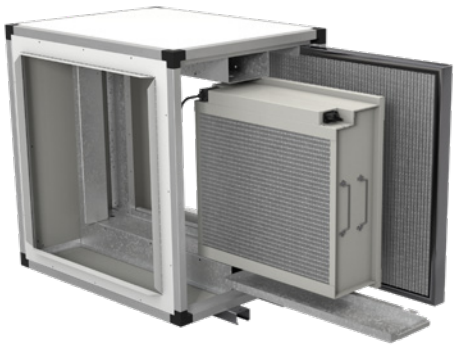
Filter units without a fan but with activated carbon filter cartridges

MPCO

Filter units without a fan but with technology based on photocatalysis

MFE

Filter units without a fan but with high efficiency electrostatic filters



MF

Filter units without a fan but offering various filter options

Filter units without a fan but offering various filter options, designed to clean air by trapping airborne particulate matter present inside buildings.

Characteristics:
- Aluminium profile structure.
- High quality, 25 mm thick acoustically insulated casing made from prefinished sheet.
- Side panel for maintenance access.
- Modular construction for use in combination with different air treatment units.
- Compatible with most existing aluminium profile type models: CJK/EC, CJK/FILTER/EC, UPC/EC, CJBX/AL, CJBD/AL, CJDXR/AL, UFRX/ALS…
- Filtration stages options:
  - G4 + F7.
  - F6 + F8.
  - F7 + F9.
- Easy to remove filters for cleaning and maintenance.

Order code

MF — 900 — F7+F9

- MF: Filter units without a fan but capable of using different types of filters
- Size 900 x 900 mm
- Filtration stages

Characteristics of the filters

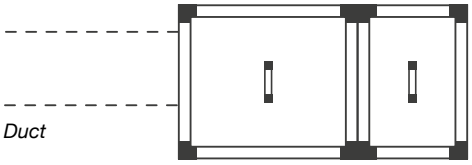
	EN 779	EN 1822	ISO 16890		
			ISO ePM_1	ISO $ePM_{2.5}$	ISO ePM_{10}
F6	60-80%	-	-	>50-65%	>60%
F7	80-90%	-	>50-65%	>65-80%	>85%
F8	90-95%	-	>65-80%	>80%	>90%
F9	>95%	-	>80%	>95%	>95%

Technical characteristics

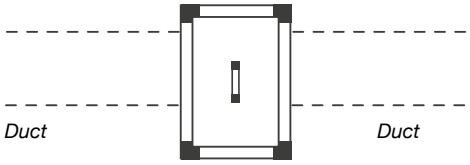
	Cross section (mm)		Total weight (kg)	Maximum flow rate (m^3/h)
	Height	Width		
MF-490	490	490	16	1813
MF-500	500	500	19	1323
MF-550	550	550	19	2384
MF-605	605	605	21	2970
MF-680	680	680	23	3887
MF-700	700	700	35	2593
MF-855	855	855	41	6464
MF-900	900	900	58	3759
MF-1000	1000	1000	51	8983
MF-1195	1195	1195	73	10372
MF-1250	1250	1250	79	10372
MF-1450	1450	1450	94	15038
MF-1670	1670	1670	105	23338

Installation examples

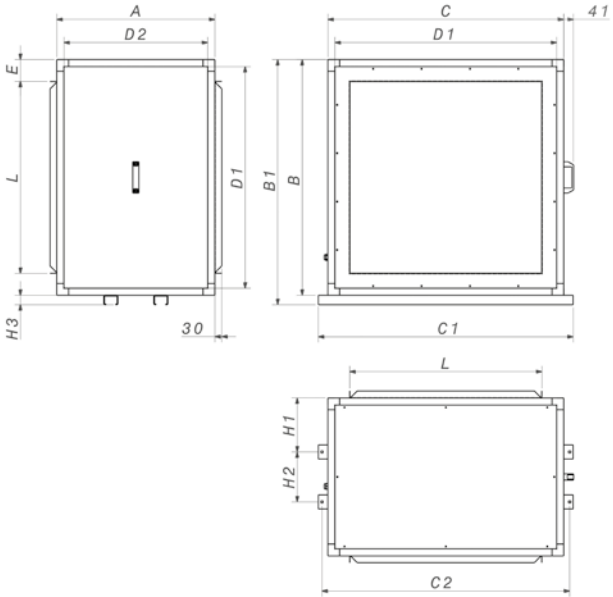
Set-up next to a ventilation unit

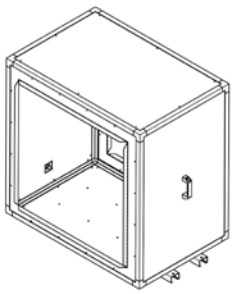


Set-up between ducts



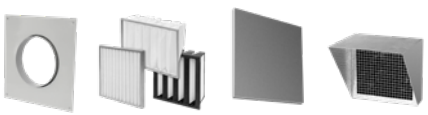
Dimensions mm





	A	B	B1	C	C1	C2	D1	D2	E	L	H1	H2	H3
MF-490	510	490	-	490	-	-	430	450	83.4	323.2	-	-	-
MF-500	500	500	-	500	-	-	420	420	58.4	383.2	-	-	-
MF-550	510	550	-	550	-	-	490	450	83.4	383.2	-	-	-
MF-605	510	605	-	605	-	-	545	450	106.9	391.2		-	-
MF-680	510	680	-	680	-	-	620	450	84.4	511.2	-	-	-
MF-700	700	700	-	700	-	-	620	620	94.4	511.2	-	-	-
MF-855	670	855	895	855	938	908	795	610	84.4	686.2	229	212	40
MF-900	900	900	-	900	-	-	820	820	106.9	686.2	-	-	-
MF-1000	670	1000	1040	1000	1080	1050	940	610	92.9	814.2	229	212	40
MF-1195	670	1195	1235	1195	1280	1245	1115	590	131.9	931.2	229	212	40
MF-1250	670	1250	1290	1250	1350	1320	1170	590	168.9	912.2	229	212	40
MF-1450	670	1450	1490	1450	1550	1520	1370	590	169.4	1111.2	229	212	40
MF-1670	670	1670	1710	1670	1770	1740	1590	590	137.75	1394.5	229	212	40

Accessories

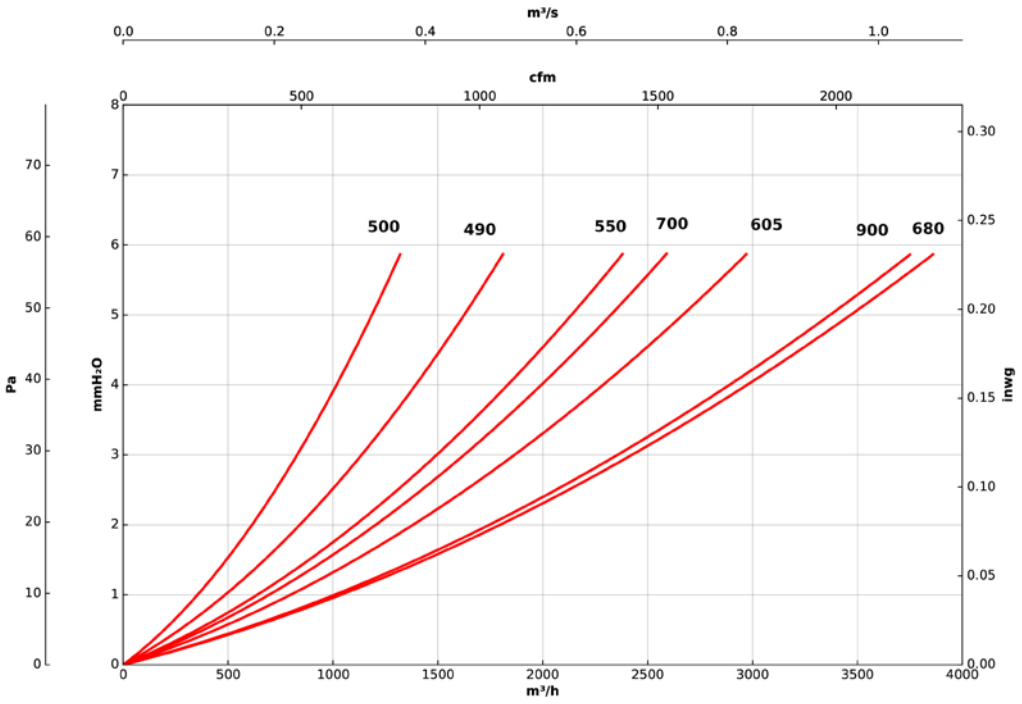


TAC FILTERS TEJ VIS

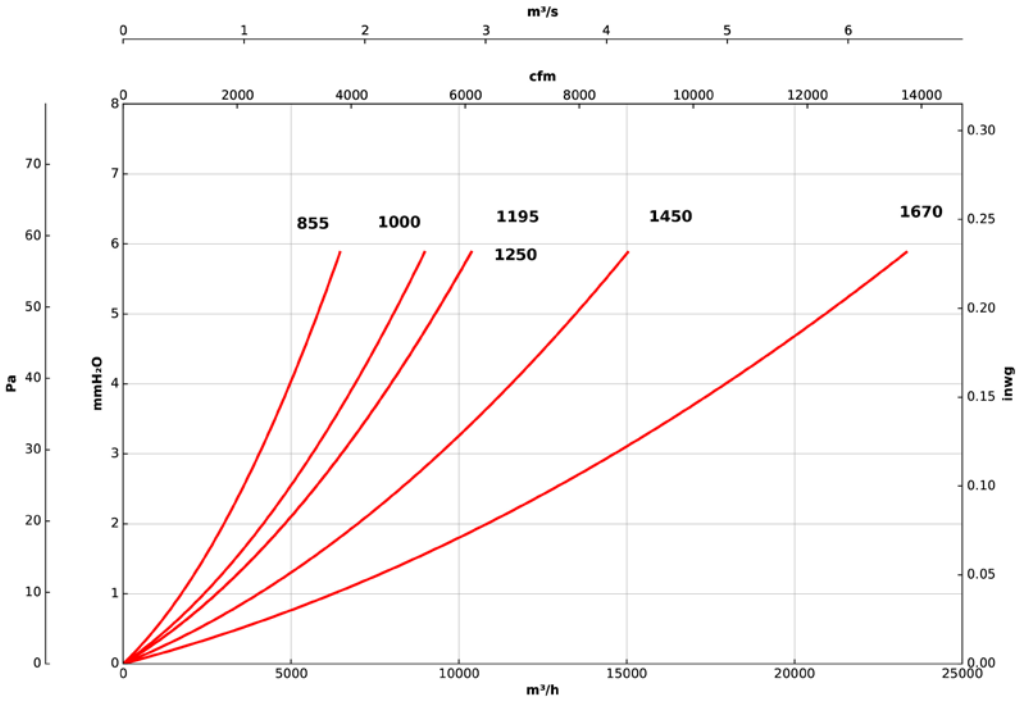
Load loss characteristic curves

Q = Flow rate in m^3/h, m^3/s and cfm. Pe = Static pressure in mmH_2O, Pa and inwg.

G4 filter modules



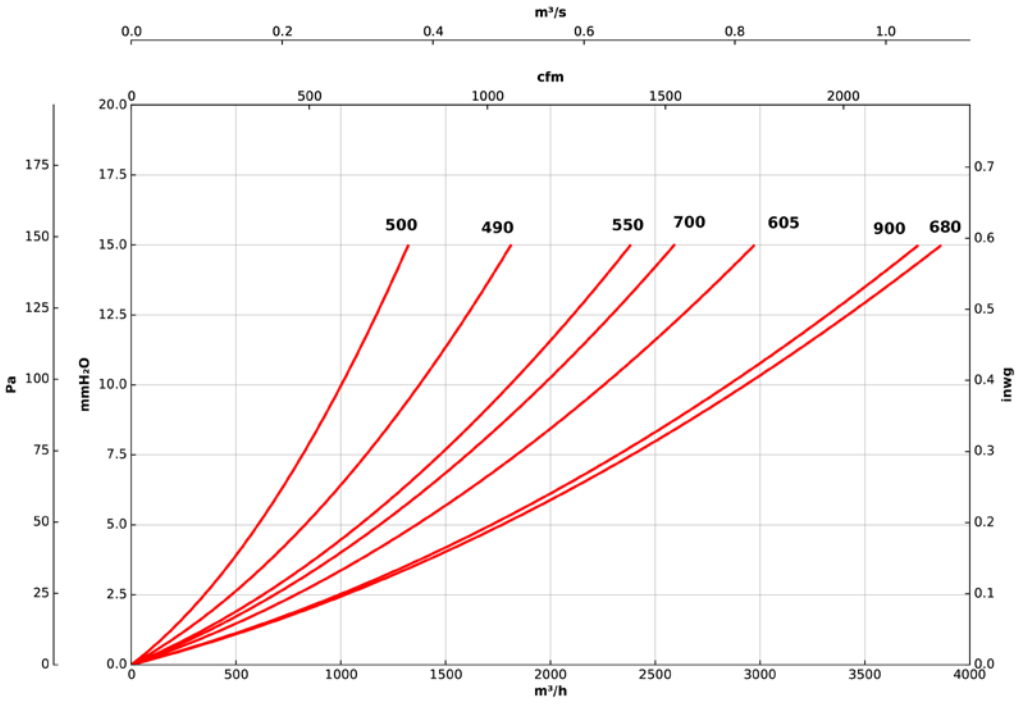
G4 filter modules



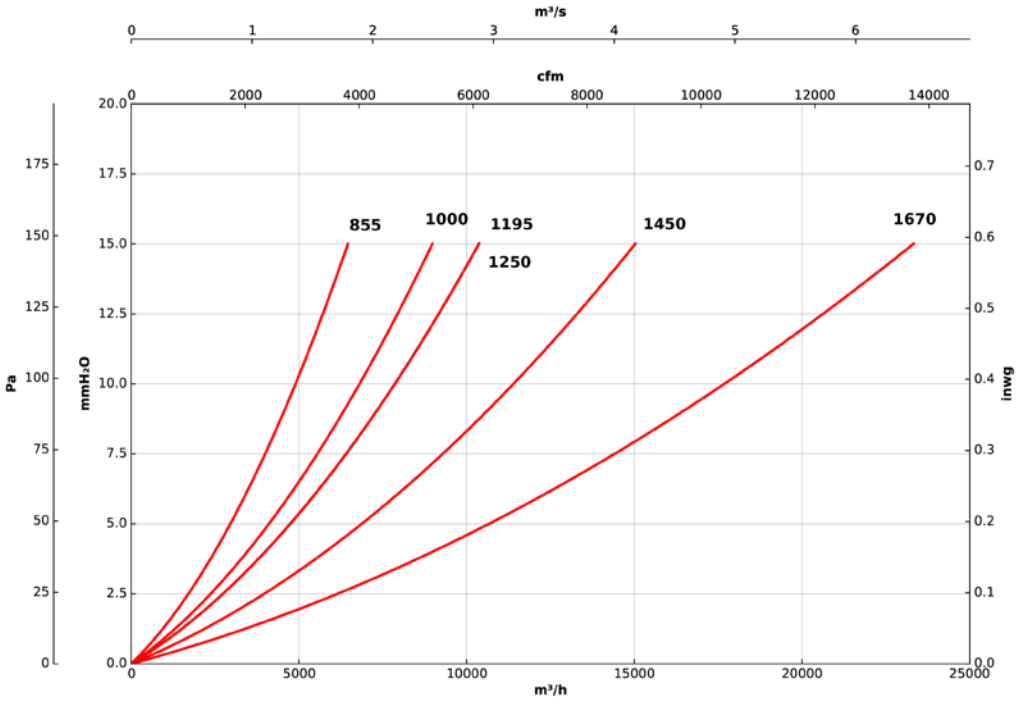
Load loss characteristic curves

Q = Flow rate in m^3/h, m^3/s and cfm. Pe = Static pressure in mmH_2O, Pa and inwg.

F6 filter modules



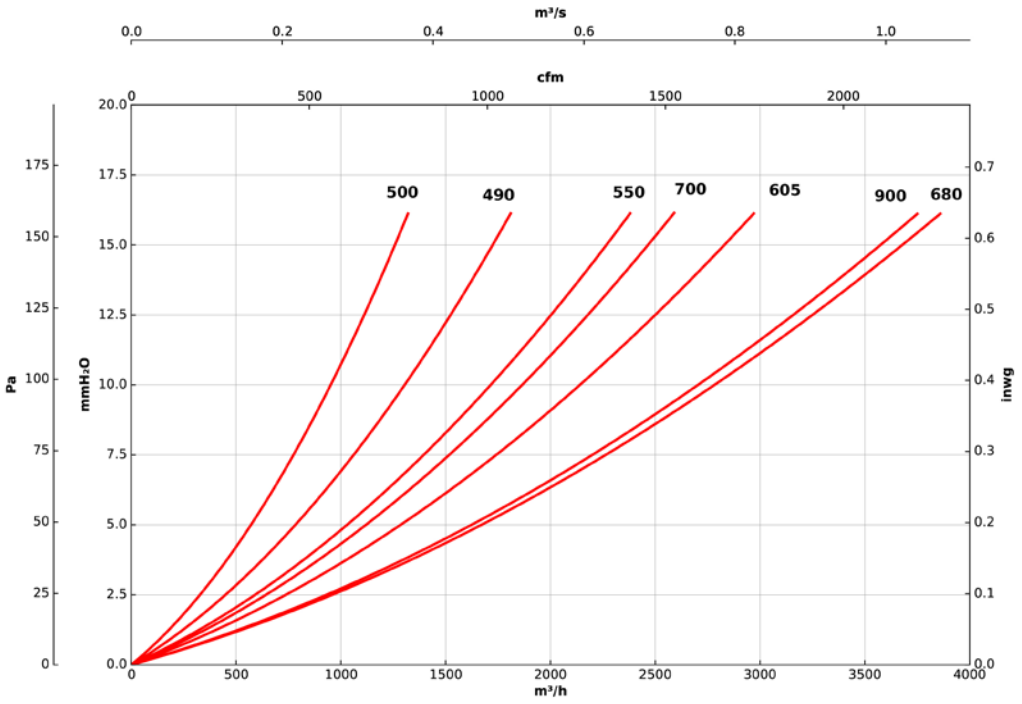
F6 filter modules



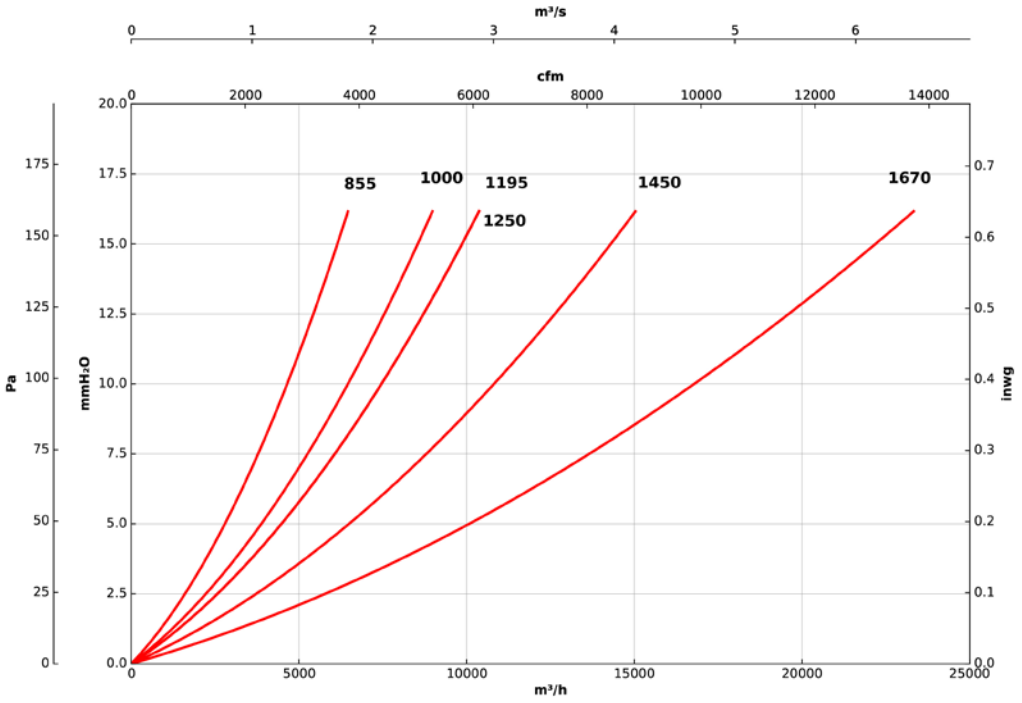
Load loss characteristic curves

Q = Flow rate in m^3/h, m^3/s and cfm. Pe = Static pressure in mmH_2O, Pa and inwg.

F7 filter modules



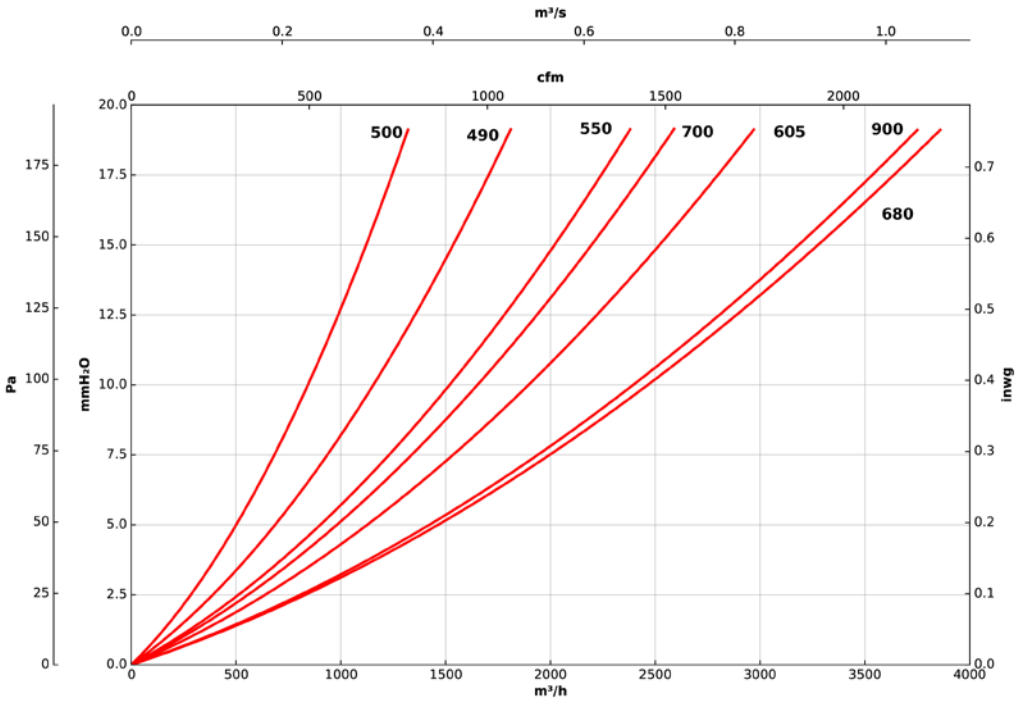
F7 filter modules



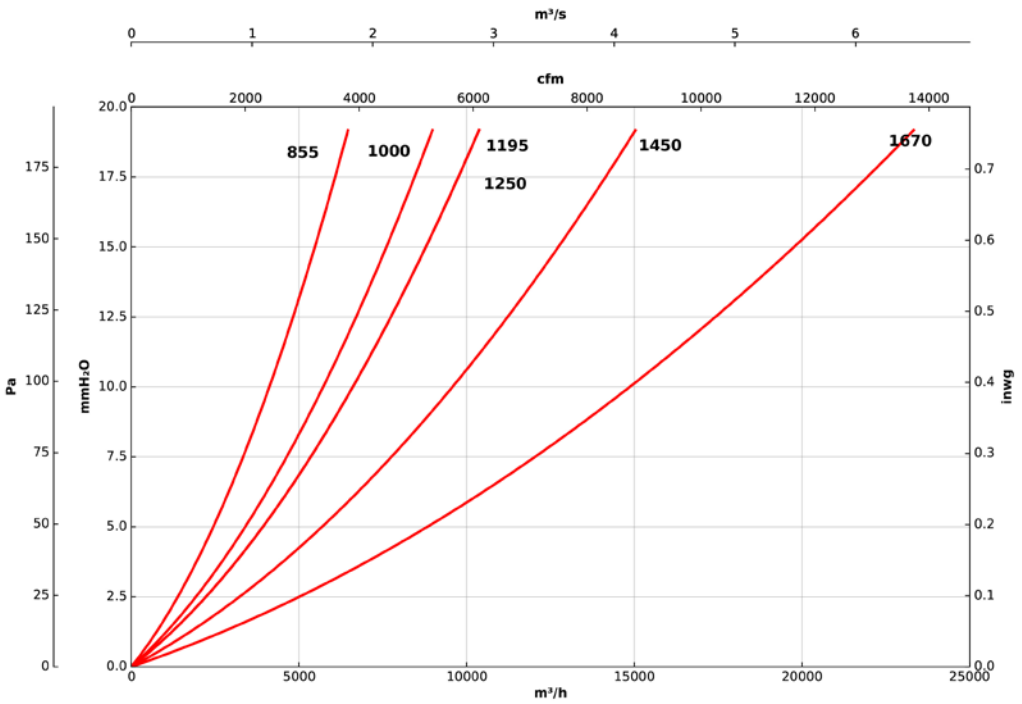
Load loss characteristic curves

Q = Flow rate in m^3/h, m^3/s and cfm. Pe = Static pressure in mmH_2O, Pa and inwg.

F8 filter modules



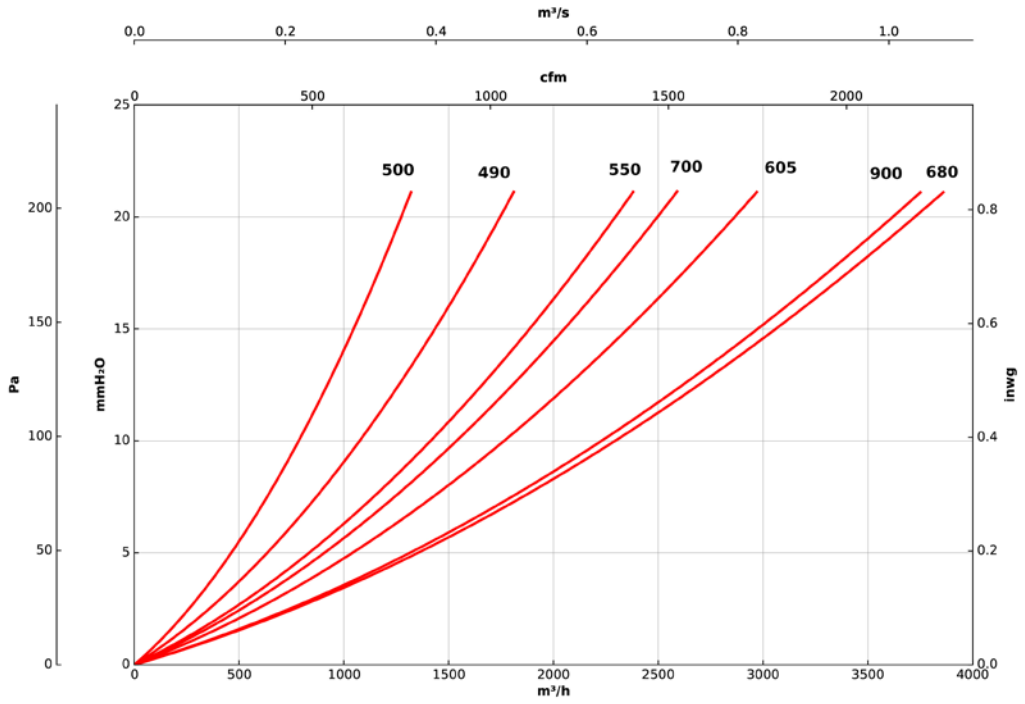
F8 filter modules



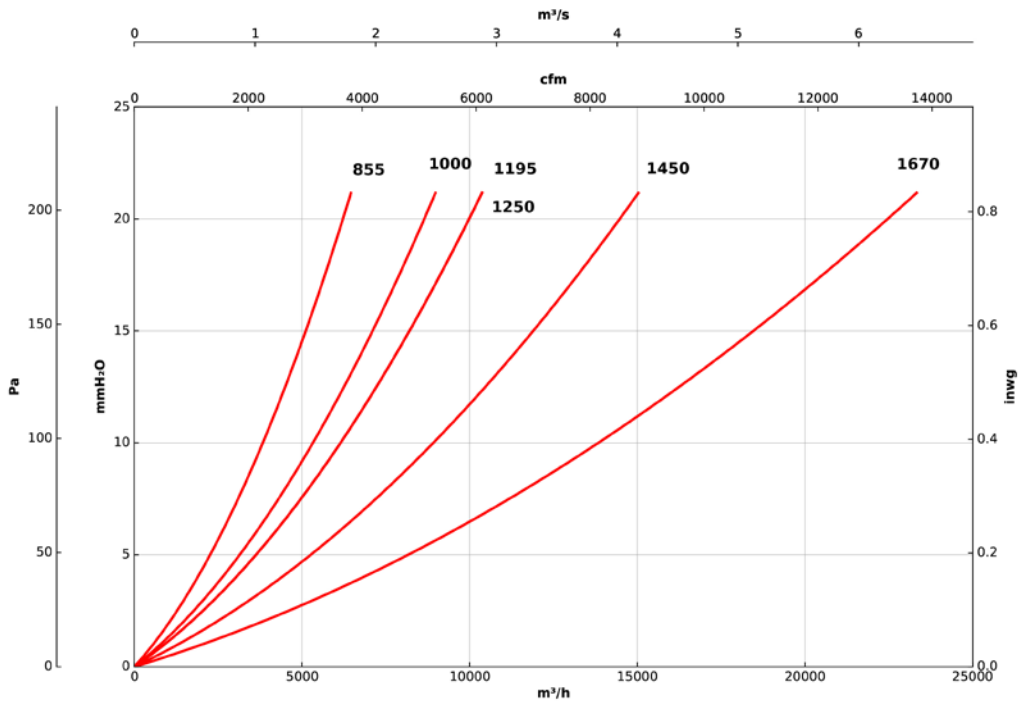
Load loss characteristic curves

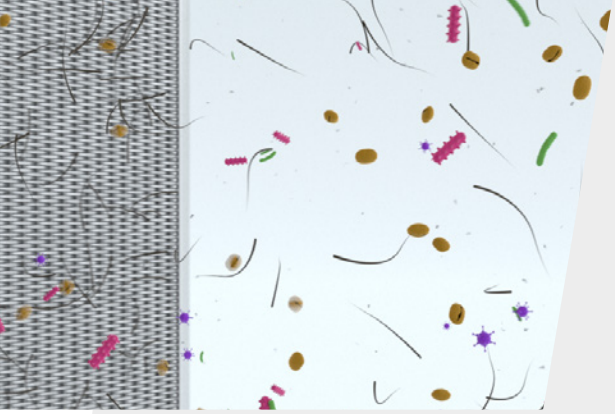
Q = Flow rate in m^3/h, m^3/s and cfm. Pe = Static pressure in mmH_2O, Pa and inwg.

F9 filter modules

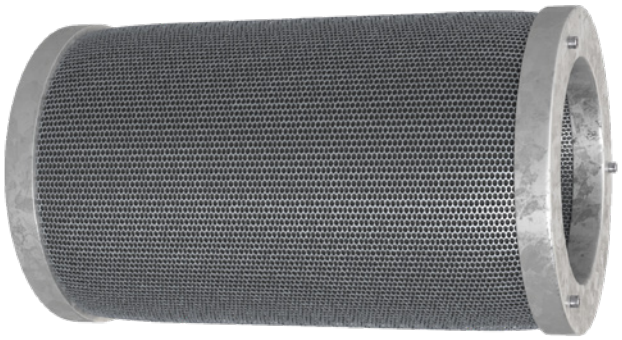


F9 filter modules





ACTIVATED CARBON FILTERS



Activated carbon filters are specifically designed for treating large air flows while minimising load loss.

These filters are easy to install and are rechargeable.

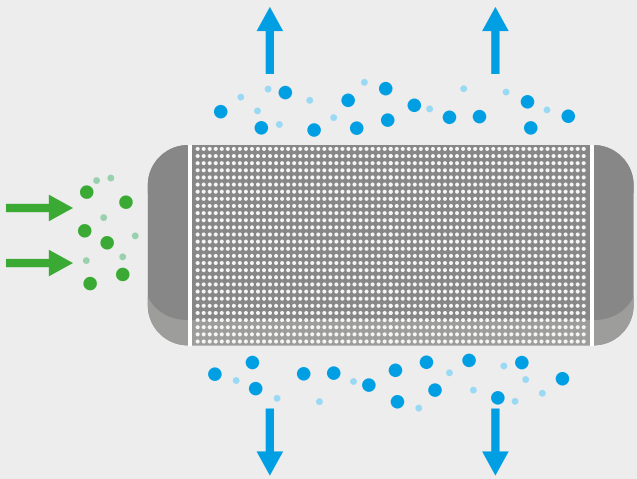
Activated carbon filter technology is ideal for removing undesired pollutants, trapping odours, gases and allergens. They are also recommended for purifying pollutants generated by general use and occupation of premises.

RECOMMENDED FOR

- Commercial kitchens
- Airports
- Hospitals
- Agri-food industry
- Fast food restaurants

HOW DOES IT WORK?

Activated carbon filter technology in cartridges works by trapping pollutants and odours present in the air that passes through the filter cartridge.



MCA

Filter units without a fan but with activated carbon filter cartridges

Filter units without a fan but with activated carbon filter cartridges, designed for eliminating odours and purifying airborne pollutants.

Characteristics:
- Aluminium profile structure.
- High quality, 25 mm thick acoustically insulated casing made from prefinished sheet.
- Side panel for maintenance access.
- Modular construction for use in combination with different air treatment units.
- Compatible with most existing aluminium profile type models: CJK/EC, CJK/FILTER/EC, UPC/EC, CJBX/AL, CJBD/AL, CJDXR/AL, UFRX/ALS…
- Filters that are rechargeable, corrosion resistant and easy to remove for cleaning and maintenance.

Order code

MCA — 900

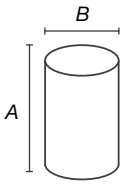
MCA: Filter units without a fan but with activated carbon filter cartridges

Size
900 x 900 mm

Characteristics of the filters

ACTIVATED CARBON FILTER (CARTRIDGE) - FCCA

Material	Height A (mm)	Diameter B (mm)	Weight (kg)
Galvanised steel	250	145	2.5

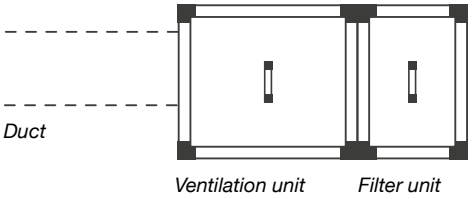


Technical characteristics

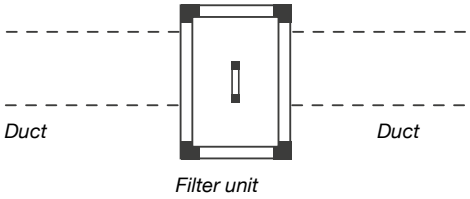
	Cross section (mm)		Total weight (kg)	Maximum flow rate (m^3/h)
	Height	Width		
MCA-490	490	490	20	1250
MCA-500	500	500	23	1250
MCA-550	550	550	22	1250
MCA-605	605	605	25	1250
MCA-680	680	680	31	2500
MCA-700	700	700	44	2500
MCA-855	855	855	52	3750
MCA-900	900	900	71	3750
MCA-1000	1000	1000	66	5000
MCA-1195	1195	1195	92	8750
MCA-1250	1250	1250	99	10000
MCA-1450	1450	1450	127	13750
MCA-1670	1670	1670	154	20000

Installation examples

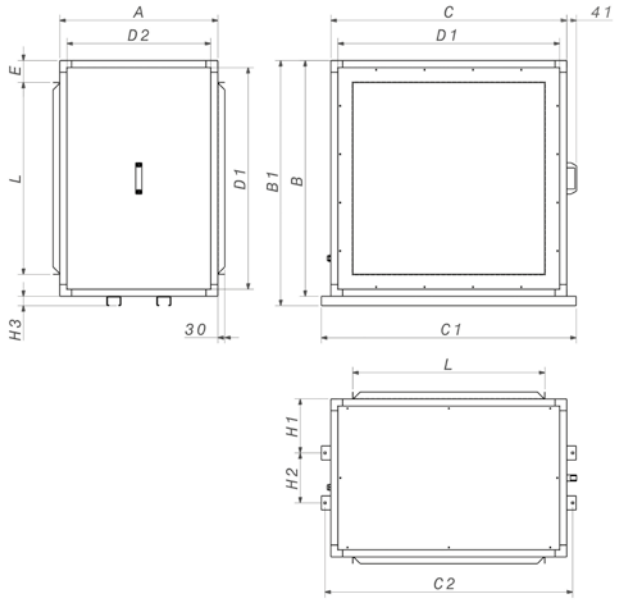
Set-up next to a ventilation unit

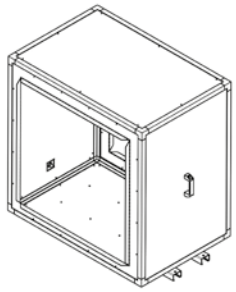


Set-up between ducts



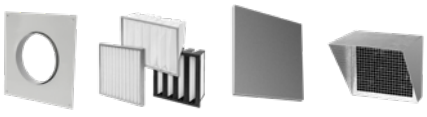
Dimensions mm





	A	B	B1	C	C1	C2	D1	D2	E	L	H1	H2	H3
MCA-490	510	490	-	490	-	-	430	450	83.4	323.2	-	-	-
MCA-500	500	500	-	500	-	-	420	420	58.4	383.2	-	-	-
MCA-550	510	550	-	550	-	-	490	450	83.4	383.2	-	-	-
MCA-605	510	605	-	605	-	-	545	450	106.9	391.2		-	-
MCA-680	510	680	-	680	-	-	620	450	84.4	511.2	-	-	-
MCA-700	700	700	-	700	-	-	620	620	94.4	511.2	-	-	-
MCA-855	670	855	895	855	938	908	795	610	84.4	686.2	229	212	40
MCA-900	900	900	-	900	-	-	820	820	106.9	686.2	-	-	-
MCA-1000	670	1000	1040	1000	1080	1050	940	610	92.9	814.2	229	212	40
MCA-1195	670	1195	1235	1195	1280	1245	1115	590	131.9	931.2	229	212	40
MCA-1250	670	1250	1290	1250	1350	1320	1170	590	168.9	912.2	229	212	40
MCA-1450	670	1450	1490	1450	1550	1520	1370	590	169.4	1111.2	229	212	40
MCA-1670	670	1670	1710	1670	1770	1740	1590	590	137.75	1394.5	229	212	40

Accessories

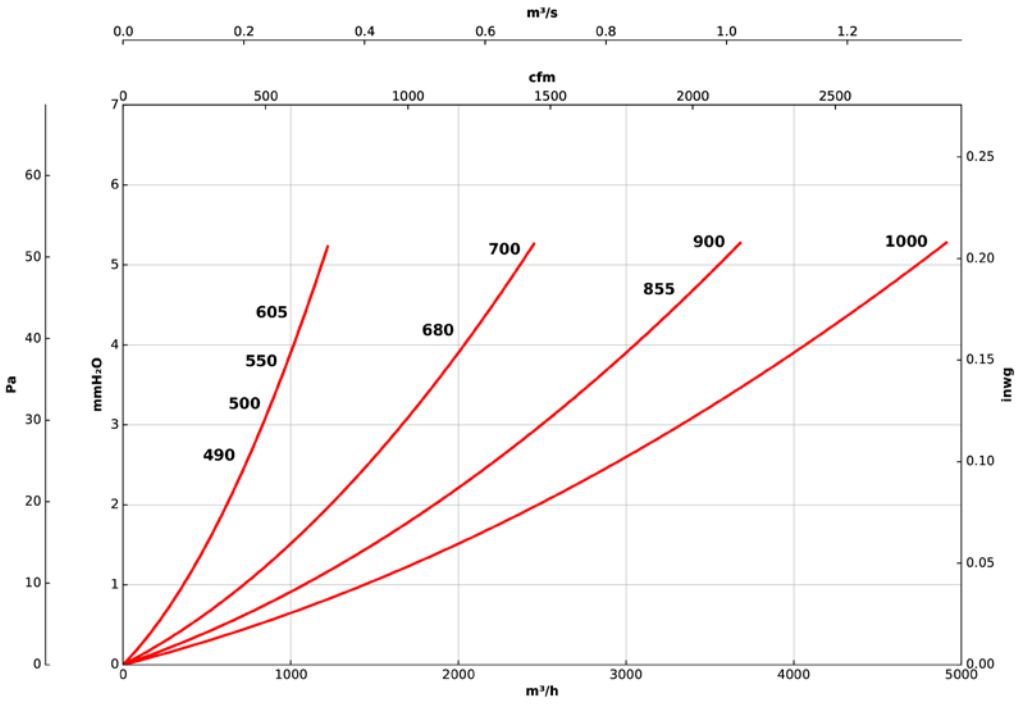


TAC FILTERS TEJ VIS

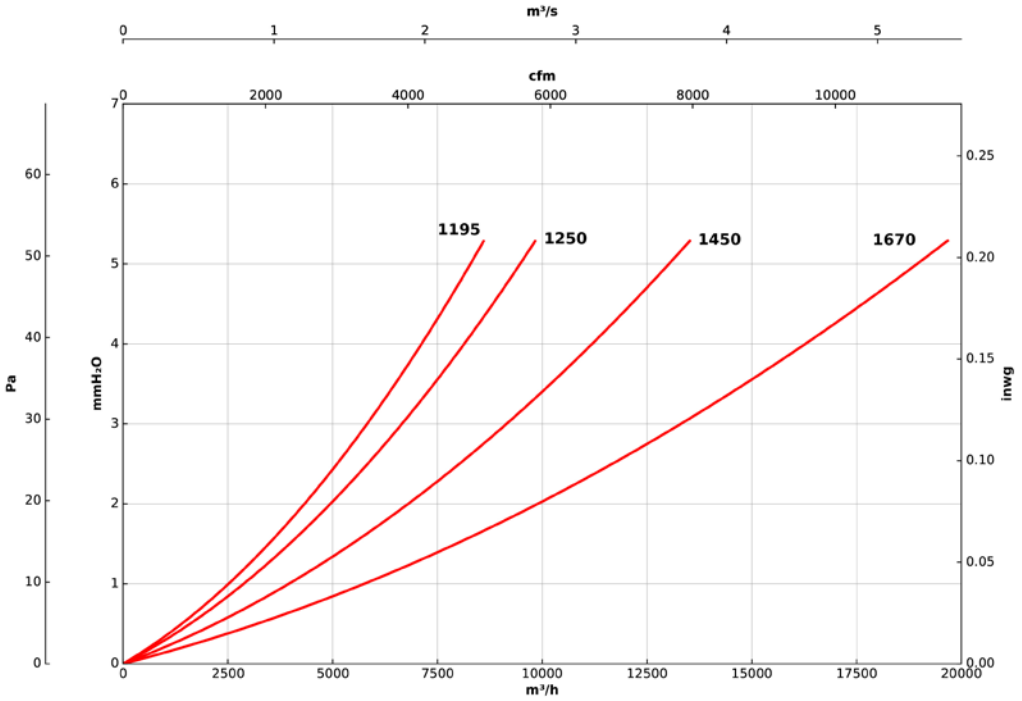
Load loss characteristic curves

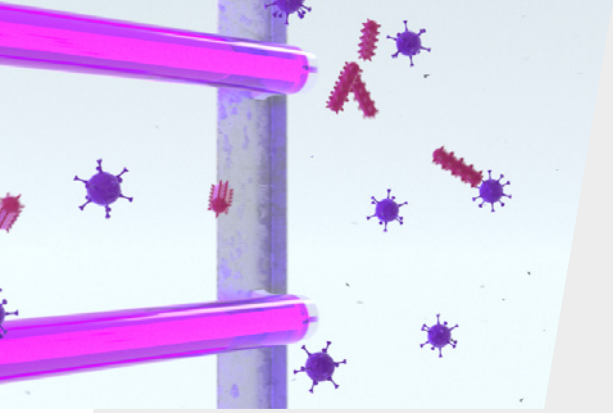
Q = Flow rate in m^3/h, m^3/s and cfm. Pe = Static pressure in mmH_2O, Pa and inwg.

CA filter modules

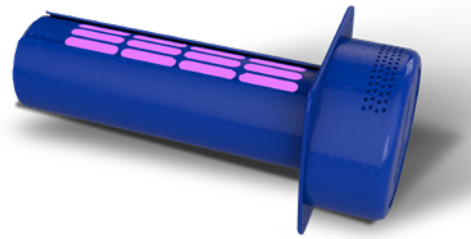


CA filter modules





PHOTOCATALYSIS TECHNOLOGY



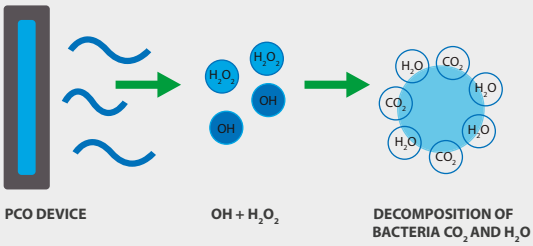
PCO™ technology (Photocatalytic Oxidation) is a powerful tool that is used for purifying air and nearby surfaces, by accelerating the natural decomposition of organic matter through photocatalysis. Additionally, our equipment has built-in modules with **positive and negative ionisation technology**, which improve their purifying efficacy against ultra-fine dust and odours.

APPLICATIONS

Purifying air by disinfecting it using **PCO technology is ideal for premises where people are continuously entering and exiting**. These premises require a speedy, high efficiency disinfection due to the high rate of pollutants that may be circulating. PCO technology is also suitable for use at locations where there is a need to disinfect large material surfaces through the air.

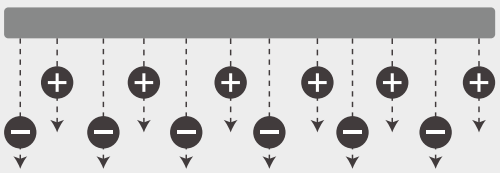
HOW DOES IT WORK?

PCO technology uses a UVc ultraviolet light source to react with a titanium dioxide catalyst in the presence of humidity/water vapour to create hydroxyl radicals (OH) and hydrogen peroxide (H_2O_2), which inactivate airborne microorganisms and harmful chemical substances circulating in the air.



These devices use PCO technology, together with **positive and negative ionisation**, to gather suspended particulate matter, which has not been collected by filters, and make it harmless.

Positive and negative ionisation of particles



MPCO

Filter units without a fan but with technology based on photocatalysis

Filter units without a fan but with technology based on photocatalysis, especially designed for cleaning, disinfecting and purifying air in indoor spaces as well as material surfaces.

Characteristics:
- Aluminium profile structure.
- High quality, 25 mm thick acoustically insulated casing made from prefinished sheet.
- Side panel for maintenance access.
- Modular construction for use in combination with different air treatment units.
- Compatible with most existing aluminium profile type models: CJK/EC, CJK/FILTER/EC, UPC/EC, CJBX/AL, CJBD/AL, CJDXR/AL, UFRX/ALS, etc.
- Devices with built-in high-efficiency photocatalysis technology.
- Positive and negative ionisation.
- Filtration stages: F7 + F9.
- Effective up to 40 linear metres of ducting.

Order code

MPCO — 900

MPCO: Filter units without a fan but with technology based on photocatalysis

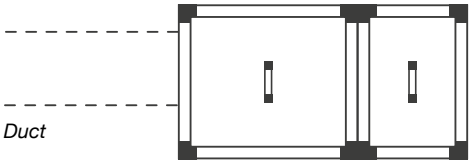
Size
900 x 900 mm

Technical characteristics

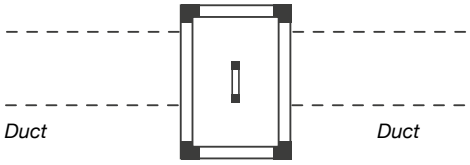
	Cross section (mm)		Total weight (kg)	Maximum flow rate (m^3/h)	Electrical consumption (W)
	Height	Width			
MPCO-490	490	490	53	1813	14
MPCO-500	500	500	60	1323	14
MPCO-550	550	550	61	2384	14
MPCO-605	605	605	68	2970	14
MPCO-680	680	680	74	3887	14
MPCO-700	700	700	111	2593	14
MPCO-855	855	855	127	6464	28
MPCO-900	900	900	178	3759	14
MPCO-1000	1000	1000	159	8983	28
MPCO-1195	1195	1195	221	10372	42
MPCO-1250	1250	1250	237	10372	42
MPCO-1450	1450	1450	284	15038	56
MPCO-1670	1670	1670	321	23338	84

Installation examples

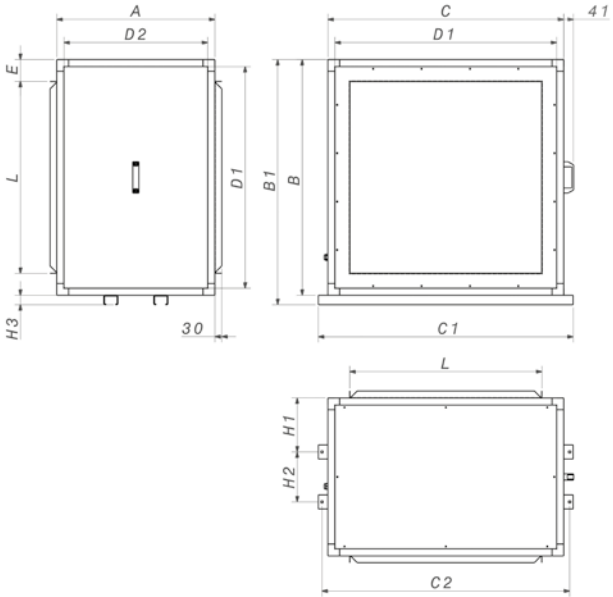
Set-up next to a ventilation unit

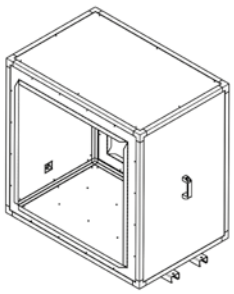


Set-up between ducts



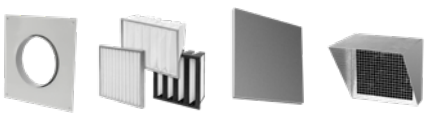
Dimensions mm





	A	B	B1	C	C1	C2	D1	D2	E	L	H1	H2	H3
MPCO-490	510	490	-	490	-	-	430	450	83.4	323.2	-	-	-
MPCO-500	500	500	-	500	-	-	420	420	58.4	383.2	-	-	-
MPCO-550	510	550	-	550	-	-	490	450	83.4	383.2	-	-	-
MPCO-605	510	605	-	605	-	-	545	450	106.9	391.2		-	-
MPCO-680	510	680	-	680	-	-	620	450	84.4	511.2	-	-	-
MPCO-700	700	700	-	700	-	-	620	620	94.4	511.2	-	-	-
MPCO-855	670	855	895	855	938	908	795	610	84.4	686.2	229	212	40
MPCO-900	900	900	-	900	-	-	820	820	106.9	686.2	-	-	-
MPCO-1000	670	1000	1040	1000	1080	1050	940	610	92.9	814.2	229	212	40
MPCO-1195	670	1195	1235	1195	1280	1245	1115	590	131.9	931.2	229	212	40
MPCO-1250	670	1250	1290	1250	1350	1320	1170	590	168.9	912.2	229	212	40
MPCO-1450	670	1450	1490	1450	1550	1520	1370	590	169.4	1111.2	229	212	40
MPCO-1670	670	1670	1710	1670	1770	1740	1590	590	137.75	1394.5	229	212	40

Accessories

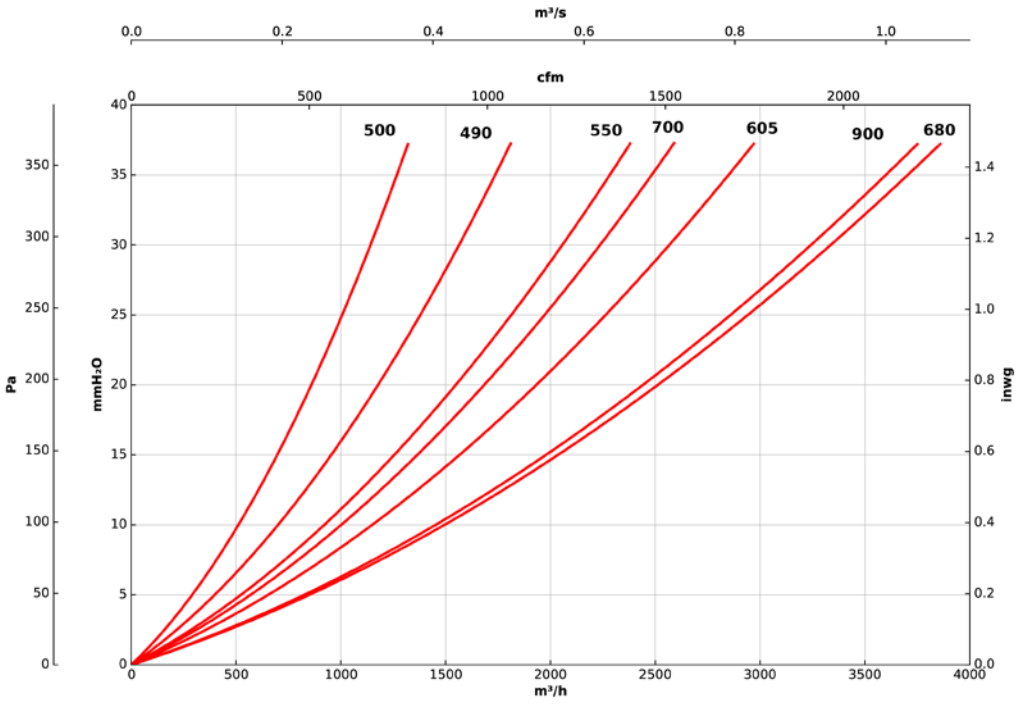


TAC FILTERS TEJ VIS

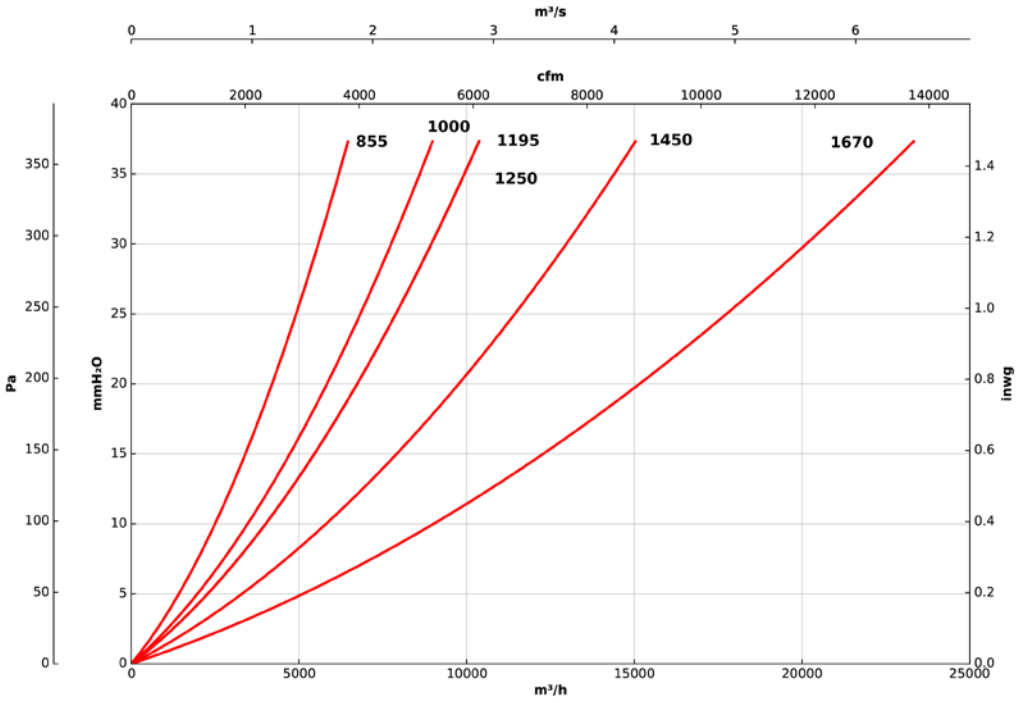
Load loss characteristic curves

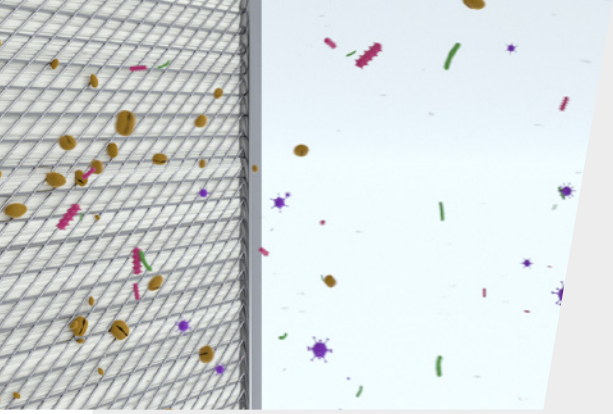
Q = Flow rate in m^3/h, m^3/s and cfm. Pe = Static pressure in mmH_2O, Pa and inwg.

MCPO F7+F9 filter modules



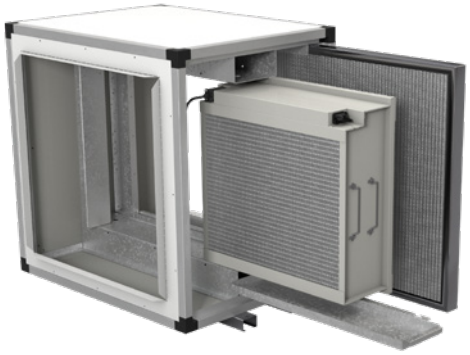
MCPO F7+F9 filter modules





ELECTROSTATIC FILTER TECHNOLOGY

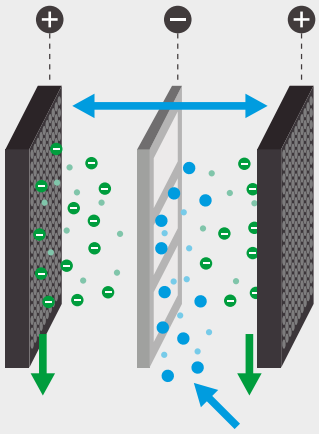
Electrostatic filters EF are especially suitable for eliminating polluting substances such as particulate matter, bacteria or volatile organic compounds (VOCs).
The high performance of these filters along with their high capacity for capturing particles, results in this equipment operating with a very low load loss and therefore, their energy consumption is very low in comparison with that of conventional mechanical filtering systems.



Air purification by disinfection using **electrostatic filter technology is ideal for environments where pollutants are suspended particulate matter, oily or greasy or of the type that quickly saturate mechanical or fabric filters.**
Electrostatic filters are washable and easy to maintain.

HOW DOES IT WORK?

Particulate matter is ionised and becomes adhered to oppositely charged collector cells and this way, they are removed from the outlet airflow.

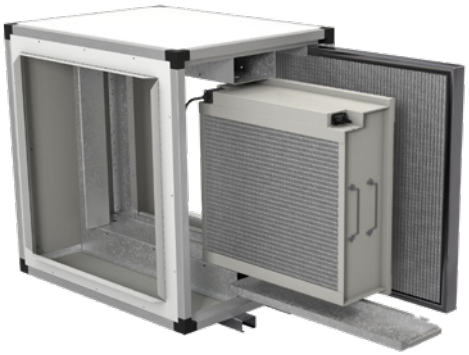


RECOMMENDED FOR

- Commercial kitchens
- Hospitals
- Use in the agri-food sector
- Factories
  (suspended particulate matter and smoke up to 20 mg/m^3)
- Fast food restaurants
- Chemical and metallurgy industry

MFE

Filter units without a fan but with high efficiency electrostatic filters



Filter units without a fan but with high efficiency electrostatic filters that are especially designed for cleaning, disinfecting and purifying indoor air at locations containing a high amount of grease or suspended particulate matter.

Characteristics:

- Aluminium profile structure.
- High quality, 25 mm thick acoustically insulated casing made from prefinished sheet.
- Inspection panel for maintenance and filter replacement (minimum recommended opening on the side of 1 m).
- Modular construction for use in combination with different air treatment units.
- Supply voltage 230 V 50 Hz.
- Compatible with most existing aluminium profile type models: CJK/EC, CJK/FILTER/EC, UPC/EC, CJBX/AL, CJBD/AL, CJDXR/AL, UFRX/ALS, etc.
- Washable, anti-grease pre-filter.
- High efficiency (95% ePM_1) electrostatic filter device with built-in thermal sensor.
- Grease-collection trays.

Order code

MFE — 900

MFE: Filter units without a fan but with high efficiency electrostatic filters	Size 900 x 900 mm

Characteristics of the filters

ELECTROSTATIC FILTER

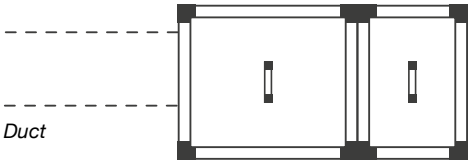
	ePM_1				
	95%		**90%**	**80%**	**70%**
Filtration class EN 779	-	-	F9	F8	F7
Air speed (m/s)	1	2	2.5	3	4
Air flow capacity (%)	40	50	65	75	100
Pressure drop (Pa)	10	17	24	37	64

Technical characteristics

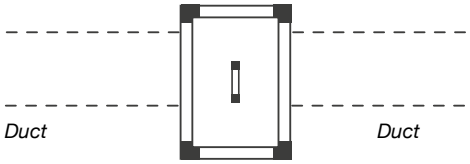
	Cross section (mm)		**Total weight (kg)**	**Maximum flow rate (m^3/h)**	**Electrical consumption (W)**
	Height	**Width**			
MFE-490	490	490	45	700	9
MFE-500	500	500	41	700	9
MFE-550	550	550	50	700	9
MFE-605	605	605	60	900	9
MFE-680	680	680	73	2100	16
MFE-700	700	700	97	2100	16
MFE-855	855	855	118	3400	16
MFE-900	900	900	153	3400	16
MFE-1000	1000	1000	185	4900	43
MFE-1195	1195	1195	252	8400	64
MFE-1250	1250	1250	274	9320	64
MFE-1450	1450	1450	330	13600	64
MFE-1670	1670	1670	424	19500	109

Installation examples

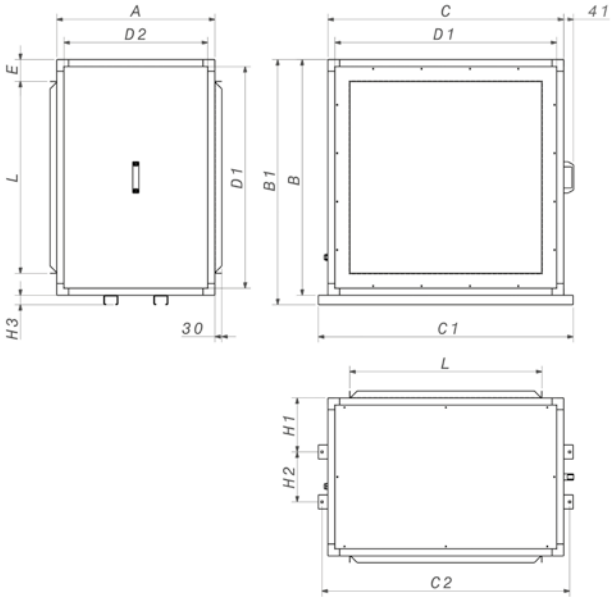
Set-up next to a ventilation unit

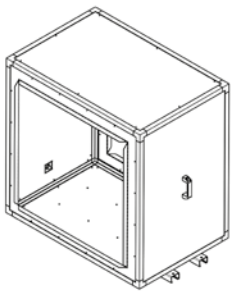


Set-up between ducts



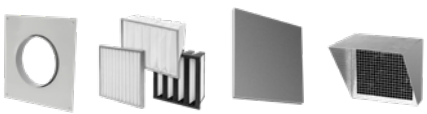
Dimensions mm





	A	B	B1	C	C1	C2	D1	D2	E	L	H1	H2	H3
MFE-490	510	490	-	490	-	-	430	450	83.4	323.2	-	-	-
MFE-500	500	500	-	500	-	-	420	420	58.4	383.2	-	-	-
MFE-550	510	550	-	550	-	-	490	450	83.4	383.2	-	-	-
MFE-605	510	605	-	605	-	-	545	450	106.9	391.2		-	-
MFE-680	510	680	-	680	-	-	620	450	84.4	511.2	-	-	-
MFE-700	700	700	-	700	-	-	620	620	94.4	511.2	-	-	-
MFE-855	670	855	895	855	938	908	795	610	84.4	686.2	229	212	40
MFE-900	900	900	-	900	-	-	820	820	106.9	686.2	-	-	-
MFE-1000	670	1000	1040	1000	1080	1050	940	610	92.9	814.2	229	212	40
MFE-1195	670	1195	1235	1195	1280	1245	1115	590	131.9	931.2	229	212	40
MFE-1250	670	1250	1290	1250	1350	1320	1170	590	168.9	912.2	229	212	40
MFE-1450	670	1450	1490	1450	1550	1520	1370	590	169.4	1111.2	229	212	40
MFE-1670	670	1670	1710	1670	1770	1740	1590	590	137.75	1394.5	229	212	40

Accessories

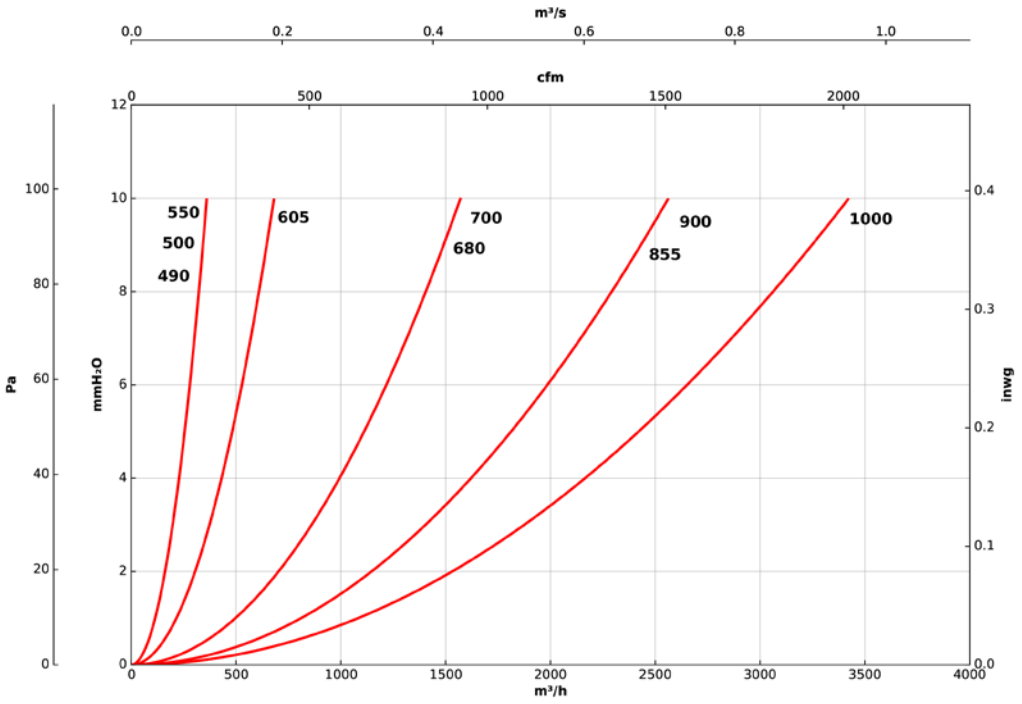


TAC FILTERS TEJ VIS

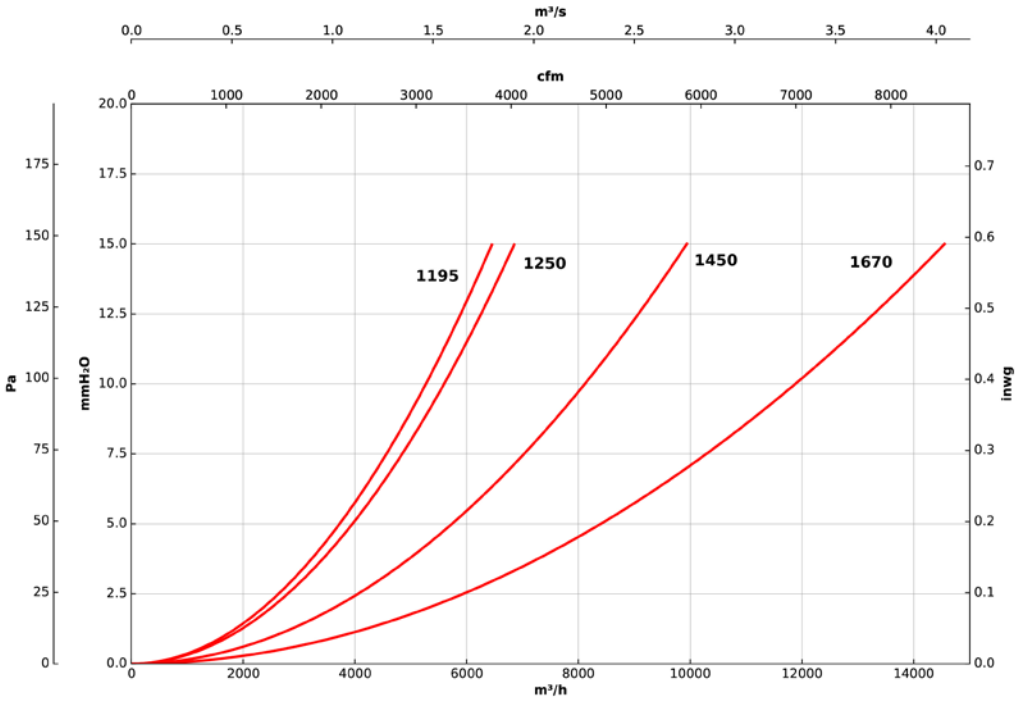
Load loss characteristic curves

Q = Flow rate in m^3/h, m^3/s and cfm. Pe = Static pressure in mmH_2O, Pa and inwg.

G2+FE filter modules



G2+FE filter modules



Ref. 10/2021

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