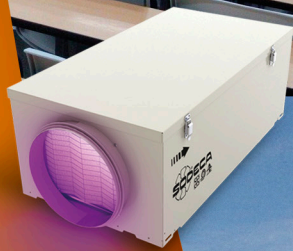


**CG**  
WE BET ON UVc  
TECHNOLOGY  
TO BEAT THE VIRUS

# AIR PURIFIERS

*Education*



*Leisure*



*Work*



*Health*



*Pure air for all  
aspects of your life*

**CE** ACCORDING  
ErP



SODECA manufactures air purifiers for residential, commercial, educational, industrial and hospitality applications.

Cleaning and purification is carried out by capturing particles with different stages of filtration and by treating the air using germicidal UVC chambers or ion plasma ultraviolet lamps, depending on the chosen model.

We are increasingly aware of the importance of breathing clean and pure air. Poor air quality significantly affects people's health and performance, with fatigue and respiratory problems being amongst the most common problems.

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This catalogue just details a small amount of what we can offer. Do not hesitate to contact us and we will put our experienced team at your disposal.

Sodeca air purifiers will accompany you during all the important stages of your life.



I EXIST BECAUSE I  
**BREATHE**



## GERMICIDAL CHAMBERS WITH UV LIGHT ENDORSED BY ASHRAE AND BY IUVA

Germicidal chambers with UVC ultraviolet light are used together with other appropriate technologies to ensure that any pathogen that has not been captured by any preceding method such as filtration, is finally inactivated using UVC technology.

According to ASHRAE, irradiation uses UVC shortwave ultraviolet energy to inactivate viral, bacterial, and fungal organisms so that they cannot replicate and cause disease. UVC energy damages deoxyribonucleic acid (DNA) in a wide range of microorganisms, making them harmless. The standard UVC lamps in commercial systems are low-pressure mercury vapour lamps that primarily emit a virtually optimal UVC of 256nm to achieve a germicidal process on the through-air.



As concern about indoor air quality grows, UVC is increasingly being used to disrupt the transmission of pathogenic organisms such as mycobacterium tuberculosis (TB), influenza and mold viruses. This is done by applying UVC to improve indoor air quality (IAQ) and consequently, improve health, comfort, and productivity

## INCREASE IN **PRODUCTIVITY** **AND CONCENTRATION**

In a professional workplace, increasingly high occupation rates means that regular ventilation is not enough to achieve good indoor air quality. It is necessary to complement ventilation with air purifiers to obtain an optimal, healthy environment of clean, pure air.

Studies show that the better the air quality, **the better our performance**, increasing the efficiency of our daily actions based on the improvement in blood oxygenation.



The International Ultraviolet Association (IUVA) endorses that UVc disinfection **technologies play an important role in the multiple processes used to reduce the transmission of the virus** that causes COVID-19, based on disinfection data and empirical evidence. UVc is a well-known disinfectant for air, water and surfaces which can help reduce the risk of COVID-19 contagion when applied correctly.

## UVc DOSE

Some examples of effective dosage for virus and bacteria inactivation

For more information you can consult:

[www.iuva.org](http://www.iuva.org)

*\* Table according to IUVA (International Ultraviolet Association)*

TYPE	NAME	INACTIVATION DOSE (mJ/cm <sup>2</sup> )		REFERENCE
		1 <sup>a</sup> (90%)	2 <sup>a</sup> (99%)	
BACTERIA	Legionella pneumophila	3,1	5,0	Wilson et al. 1992
	Salmonella enteritidis	5,0	7,0	Tosa and Hirata 1998
	Salmonella typhimurium	3,0	11,5	Maya et al. 2003
	Shigella dysenteriae	0,5	2,0	Wilson et al. 1992
	Shigella sonnei	3,2	4,9	Chang et al. 1985
	Vibrio cholerae	0,8	1,4	Wilson et al. 1992
	Citrobacter diversus	5,0	7,0	Giese and Darby 2000
	Mycobacterium tuberculosis	2,2	4,3	Collins 1971
PROTOZOA	Listeria monocytogenes	2,2	3,0	Collins 1971
	Cryptosporidium parvum	<2	<2	Clancy et al. 2004
	Giardia lamblia	<10	~10	Campbell et al. 2002
	Giardia muris	<2	<2	Mofidi et al. 2002
VIRUS	Encephalitozoon intestinalis, microsporidia	3,0	5,0	Marshall et al. 2003
	Adenovirus 40	55,0	105,0	Thurston-Enriquez et al. 2003
	Echovirus II	7,0	14,0	Gerba et al. 2002
	Hepatitis A	5,1	13,7	Wilson et al. 1992
	Poliovirus Tipo 1	5,7	11,0	Wilson et al. 1992
	Rotavirus SA11	8,0	15,0	Sommer et al. 1989

Based on evidence that UVc light has been used for 40 years to remove viruses and bacteria from wastewater and pharmaceuticals products, including Coronaviruses. Some viruses or bacteria may be more susceptible to UVc disinfection than others, but they can all be inactivated with appropriate doses.

**UVc light is used in hospital, medical and scientific techniques**, always making specific reference to UV Germicide (UVc of 200-280 nm) and that under controlled laboratory conditions has scientifically demonstrated that it inactivates two Coronaviruses close to COVID-19, such as SARS-CoV-1 and MERS-CoV.

## IMPROVE HEALTH

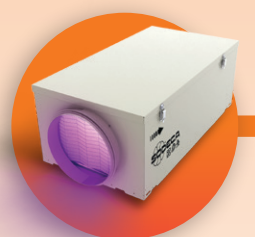
Most people spend 70% - 90% of their time being stuck inside, be it at work or at home. During this time we breathe an average of 20 to 25 Kg of air, the quality of which is vitally important to our body.

**Breathing clean air reduces respiratory and fatigue problems.**

Good air quality improves health and improves mental and physical well-being, as well as increasing life expectancy.



# QUICK SELECTION TABLE



**SV/FILTER-CG**

**F7 + F9**

Model	m <sup>2*</sup>
200	20-50
250	50-100
315	50-140
350	100-140



**CJK/FILTER/EC**

**F7 + F9**

Model	m <sup>2*</sup>
220	50-100
250	100-140
310	140-200
400	200-250
500	250-300

**F7 + HEPA H14**

Model	m <sup>2*</sup>
310	50-100
400	100-140
500	140-350

\* Recommended effective working area with premises 3 meters high.



**UPM/EC**

**F7 + F9**

Model	m <sup>2</sup> *
310	100-200
400	140-250
500	250-350

**F7 + HEPA H14**

Model	m <sup>2</sup> *
310	50-100
400	100-200
500	200-350



**UPA**

**F7 + F9**

Model	m <sup>2</sup> *
1500	200-350
3000	300-450
4500	450-900

**F7 + HEPA H14**

Model	m <sup>2</sup> *
1500	200-350
3000	300-450
4500	450-900

## FILTRATION STAGES AND THEIR EFFICIENCY

To maintain a good quality of indoor air, it is necessary to filter out particles that pollute the air, particularly the smallest particles, which are the most dangerous to health.

Air pollution in areas of high occupancy and mobility are contaminated by small particles and by gases from combustion engines. In addition, the presence of spores, mites and other bacteria or viruses can also have an adverse effect on health if they are not eliminated from the air that we breathe.

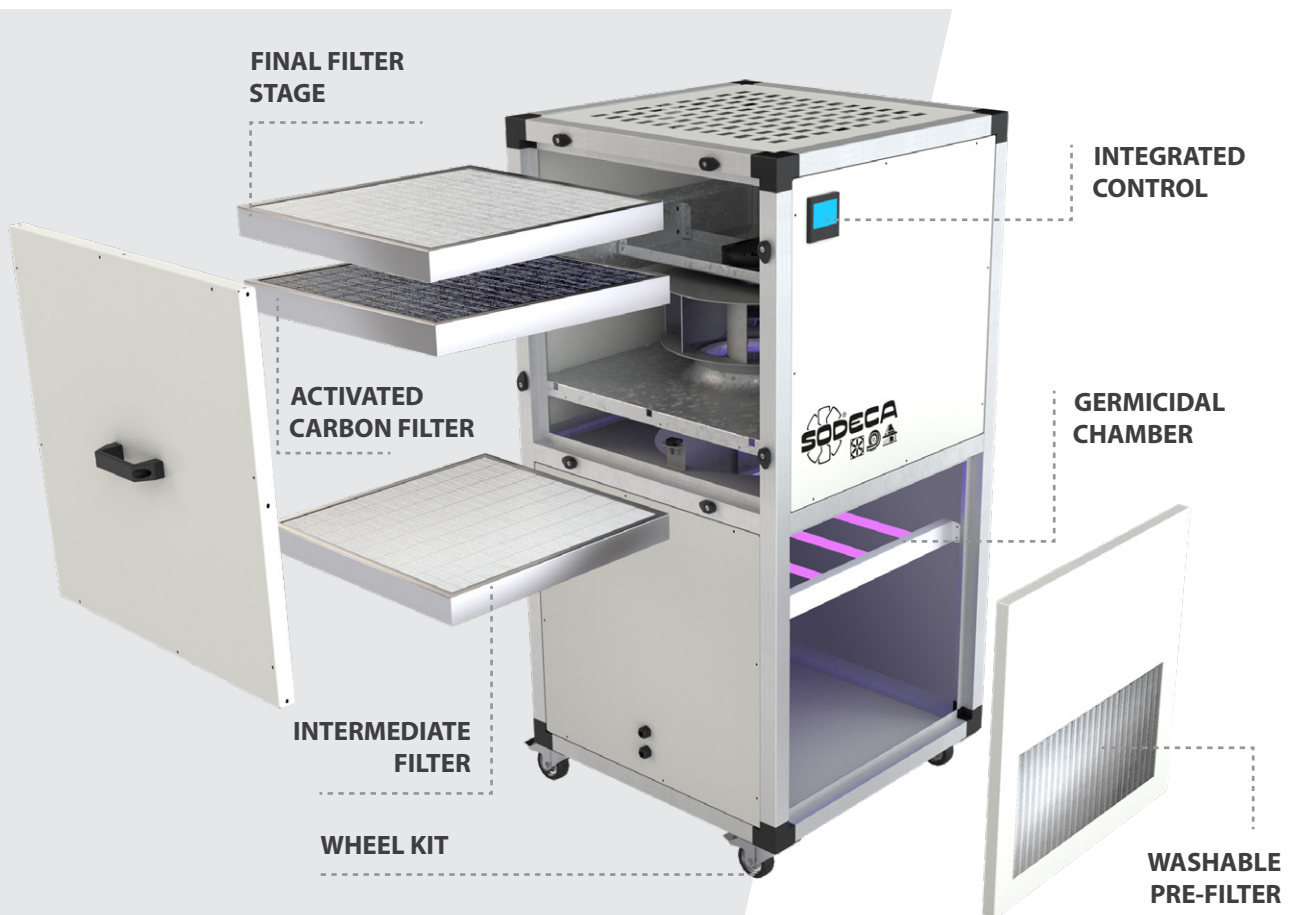
For optimum installation, the filters to be used are those classified as efficiency ePM1 ePM2.5 and ePM10 according to ISO 16890.

### EPM1 Final Filter Stages

For applications in buildings such as schools, commercial installations or offices, the use of fine filters, of at least type ePM1, is recommended. These filter types are efficient at retaining particles between 0.3 to 1 micron in diameter and are more economically maintainable.

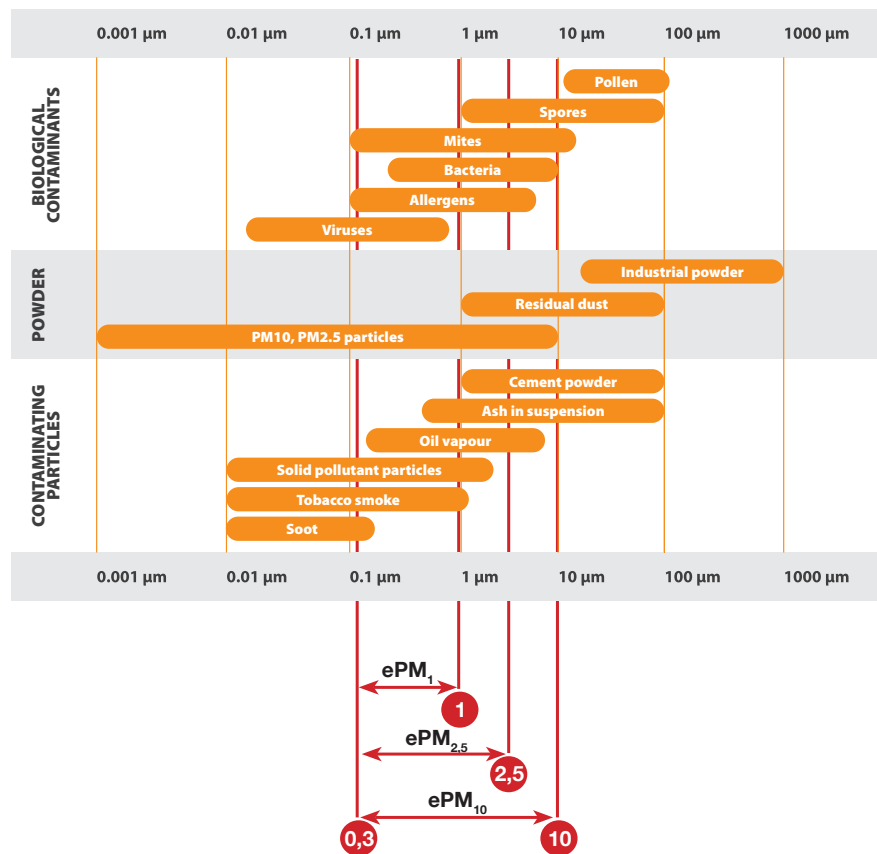
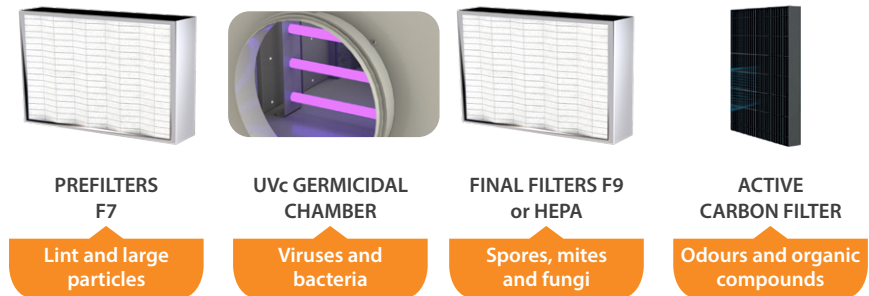
### HEPA final filter stages

HEPA filters have the highest efficiency of all and are widely used in the medical industry for applications in surgical areas, to prevent the spread of bacteria and viruses. Their use in commercial applications must be accompanied by strict maintenance and replacement protocols to avoid hygiene problems due to the high concentration of microorganisms.





# FILTRATION EFFICIENCY



Filtros	EN 779 Em	EN 1822	ISO 16890			
			ISO ePM <sub>1</sub>	ISO ePM <sub>2,5</sub>	ISO ePM <sub>10</sub>	ISO COARCE
G4	90%	-	-	-	-	>90%
F7	90%	-	>50%	>65-95%	>85%	-
F9	95%	-	>80%	>95%	>95%	-
HEPA H14	-	>99,995%	-	-	-	-

## Filtration efficiency

It is common to refer to the efficiency of filters as being in accordance with EN 779 although the current standard is ISO 16890. Both standards deal with the efficiency of coarse and fine dust filters used in ventilation. The EN standard is based on 0.4 micron particles, the ISO 16890 standard defines the efficiency for various particle size fractions measured at intervals starting from 0.3 microns. For HEPA filters, the efficiency is measured in accordance with standard EN 1822.

## APPLICATIONS IN EDUCATIONAL CENTERS

The spread of flu and colds in schools is well known to everyone. The spread of bacteria, mold and many other germs can also lead to major health problems and let's not forget the increasingly common problems of pollen, mite allergies and asthma.

Educational centers, universities and training academies are experiencing an increase in attendance figures of students and teachers when the quality of indoor air is purified and free of pollutants.

Our solutions capture the harmful particles that create allergies and eliminate germs, bacteria and viruses to obtain an optimal and healthy air quality, **achieving important long-term benefits for teachers and students.**

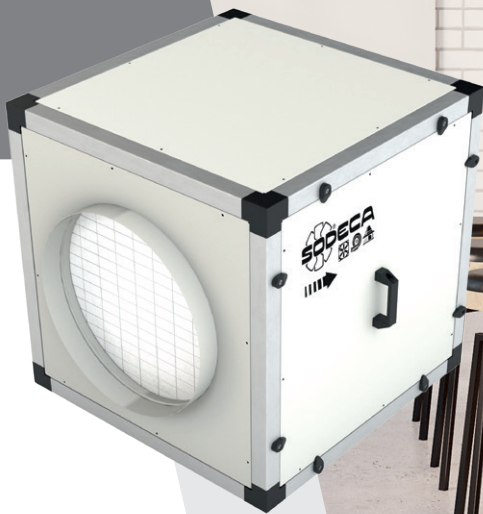
### APPLICATIONS

- Training classrooms
- High occupancy hallways
- Cafeterias and dining rooms
- Gyms and activity areas
- Auditoriums



SV/FILTER-CG

CJK/FILTER/EC



### APPLICATIONS

- Dining rooms
- Reception areas
- Bars and cocktail areas
- Corridors near toilets and kitchens
- High occupancy premises

## IMPROVEMENT OF THE ENVIRONMENT IN **HOTEL AND LEISURE PREMISES**

Enjoying a good meal in a clean and pure environment improves the customer's experience and opinion of your business. This can be achieved thanks to our air purifiers being ideal for applications in the hospitality sector (bars, restaurants, hotels) or leisure sector (gyms, spas, etc.).

Sodeca air purifiers are quiet, **which means so that your customers can focus and enjoy a good experience in their surroundings with clean and healthy air.**

Odour removal is a critical function of air purifiers for restaurant applications where lingering food odours can be a problem for customers. Statistics show that one of the main reasons for not returning to a restaurant is the smell of food, so ensuring a clean, healthy and odour-free environment is a fundamental part of the success of your business.



## PROTECTION AGAINST PARTICLES IN 4.0 INDUSTRIES

Maintaining an environment free of dust and solid particles is very important in modern industry and 4.0 industry.

These particles, whether from dust, mites, spores, mold or viruses, can greatly affect high technology products, since they can reduce their quality and significantly affect profitability.

The accumulation of particles in electrical cabinets, test instruments or operating sensors is one of the reasons for increased maintenance costs in industries, as well as machinery wear due to airborne dust particles, which can be removed decisively with our purifiers.



### APPLICATIONS

- Data center
- Automotive
- Food
- Logistics
- Production facilities in general

# HEALTHY ENVIRONMENT IN **HOSPITALS AND MEDICAL CENTERS**

Respiratory diseases worsen with age, and the need to breathe clean, healthy air becomes an essential priority. Medical centers, clinics, hospitals and nursing homes are naturally susceptible to having an environment full of pollutants, either because of the number of people who come to them daily or for the diseases that are treated there.

## APPLICATIONS

- Pharmaceutical and Hospital
- Waiting rooms
- Hallways, common areas
- Rooms of at risk patients
- Medical testing areas

Viruses and bacteria can quickly contaminate users or healthcare personnel if the environment is not sufficiently purified using specific methods for the elimination of viruses, bacteria and other germs. The high costs of not having adequate ventilation with air purification systems can be very significant or even catastrophic. These applications require fit for purpose products such as air purifiers manufactured by Sodeca.

Air purifiers with HEPA filtration stages are designed to quickly and efficiently decrease the spread of infections in people at high risk, reducing contamination by airborne infections and viruses.

Staff and patients suffering from allergies and asthma will breathe clean, healthy air in their surroundings.



UPA



# AIR PURIFIERS

## SV/FILTER/CG

Air purifying units, with UVc germicidal chamber, in-line for ducts with different stages of filtration.



## CJK/FILTER/EC

Air purifying units for circular ducts, with 25 mm acoustic casing for noise reduction, and E.C. motor Technology



## UPM/EC

Mobile air purifying units, designed for cleaning, eliminating odours and purifying indoor air, in any type of room.



## UPA

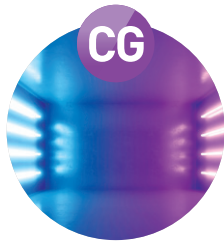
Units specifically designed for cleaning and purifying indoor air, in any type of premises and particularly in areas with high occupancy, also appropriate for the pharmaceutical industry and hospital applications.



## CG/FILTER/UVc

Air purifying units for circular ducts, with 25mm acoustic enclosure for noise reduction, without fan.





UVC GERMICIDAL  
ULTRAVIOLET  
CHAMBER

# SV/FILTER-CG

AIR PURIFYING UNITS WITH UVC  
GERMICIDAL CHAMBER

- UVC GERMICIDAL CHAMBER
- DIFFERENT STAGES OF FILTRATION
- IN-LINE FOR DUCT INSTALLATION
- IDEAL FOR RETAIL AND OTHER PREMISES
- LOW NOISE LEVEL



FILTRATION STAGE



# SV/FILTER-CG

**Air purifying units, with UVC germicidal chamber, in-line for duct installation and with different stages of filtration**



**F7 + F9**

**Characteristics:**

- Built-in UVC germicidal chamber.
- Acoustic casing of sound absorbing material.
- Standard flanges at intake and discharge sides for easy in-duct installation.
- F7 + F9 filters.
- Quick access inspection cover for cleaning and maintenance.

**Casing:**

- Galvanized steel sheet casing.
- Backward curved impellers, except for models 125 and 150 which have multi-bladed impellers. Supplied with four support feet for easy mounting.
- Access doors to facilitate maintenance and cleaning.

**Motor:**

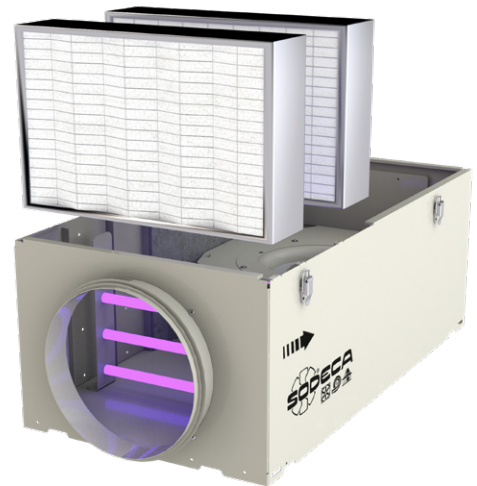
- External rotor motors, with built-in thermal protector, class F, with ball bearings, IP-54 protection.
- Single phase 230V. -50 / 60Hz. Adjustable.
- Maximum temperature of transported air + 50°C.

**Finish:**

- Anticorrosive in polyester resin polymerised at 190 °C, after degreasing with phosphate-free nanotechnological treatment.

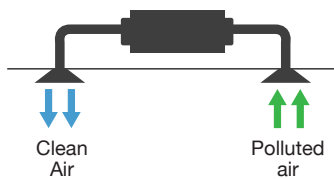
**On request:**

- Alternative filtration stages: G4 + F6 and F6 + F8.
- Automatic control system.



**Application examples**

Indoor air purification

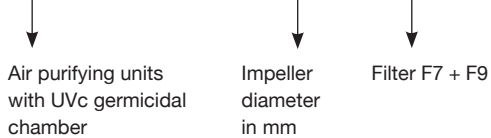


Collection and purification of outdoor air



**Order code**

**SV/FILTER/CG – 200/H – F7+F9**



**Filters characteristics**

Filters	EN 779 Em	EN 1822	ISO 16890			
			ISO ePM <sub>1</sub>	ISO ePM <sub>2,5</sub>	ISO ePM <sub>10</sub>	ISO COARCE
G4	90%	-	-	-	-	>90%
F7	90%	-	>50%	>65-95%	>85%	-
F9	95%	-	>80%	>95%	>95%	-
HEPA H14	-	>99,995%	-	-	-	-



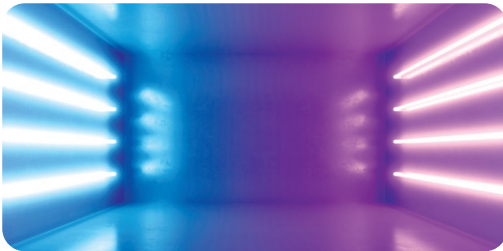
## Technical characteristics

Model	Recommended effective working area (m <sup>2</sup> )	Speed (r/min)	Maximum admissible current (A)	Maximum flow (m <sup>3</sup> /h)			Weight (kg)
				230V	Standard Filters (F7 + F9)	Filters on request (G4 + F6)	
SV/FILTER-CG-200/H	40	1240	0,65	375	590	430	15,4
SV/FILTER-CG-250/H	60	2380	1,25	525	660	560	18,1
SV/FILTER-CG-315/H	80	1330	0,85	790	1035	850	26,7
SV/FILTER-CG-350/H	120	1280	0,95	1180	1550	1270	36,6
SV/FILTER-CG-400/H	160	1330	1,8	1600	2050	1720	46,7

\* Recommended area with F7 + F9 filters, and with a 3-meter high room.

## Technical characteristics of the UVC germicidal chamber

These purification units integrate a germicidal chamber, built on the basis of UV "C" ultraviolet lamps in a spectrum of 256nm, wave amplitude indicated to inactivate a wide variety of microorganisms by absorbing short wavelength energy through DNA and RNA. For specific types of viruses or bacteria that are affected by the radiation dose from the germicidal chamber, consult the specific document.



Model	Number of lamps	Total electrical power (W)	Total radiation power UVC (W)	Radiation dose* (mJ/cm <sup>2</sup> )
SV/FILTER-CG-200/H	4	44	45	5,3
SV/FILTER-CG-250/H	4	44	45	4,7
SV/FILTER-CG-315/H	4	100	112	8,4
SV/FILTER-CG-350/H	4	100	112	6,2
SV/FILTER-CG-400/H	4	100	112	5,1

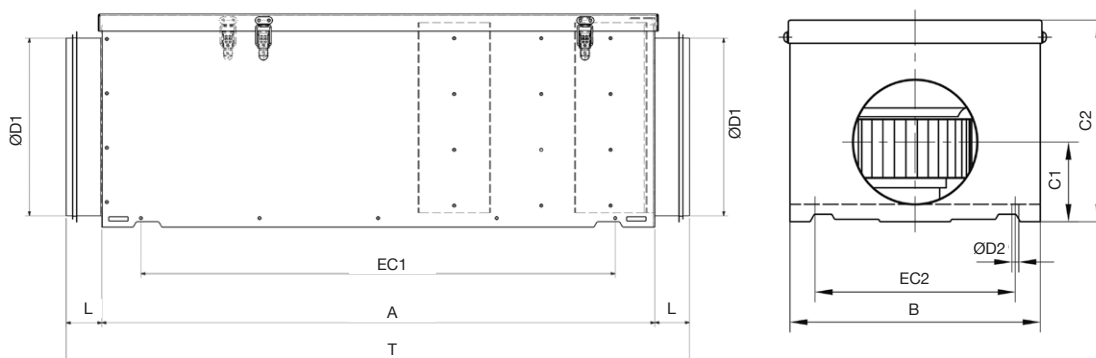
\* Minimum dose calculated based on flow with F7 + F9 filters



## Erp. (Energy Related Products)

Information on Directive 2009/125 / EC downloadable from the SODECA website or QuickFan selection program.

## Dimensions mm



Model	A	B	C1	C2	ØD1	L	ØD2	EC1	EC2	T
SV/FILTER-CG-200/H	775	395	117	273	200	36	7	725	345	847
SV/FILTER-CG-250/H	775	395	140	293	250	50	7	725	345	875
SV/FILTER-CG-315/H	860	520	175	371	315	48	8,5	809	469	956
SV/FILTER-CG-350/H	960	610	200	410	355	48	8,5	909	564	1056
SV/FILTER-CG-400/H	1035	670	219	455	400	38	8,5	984	624	1111

Curve characteristic

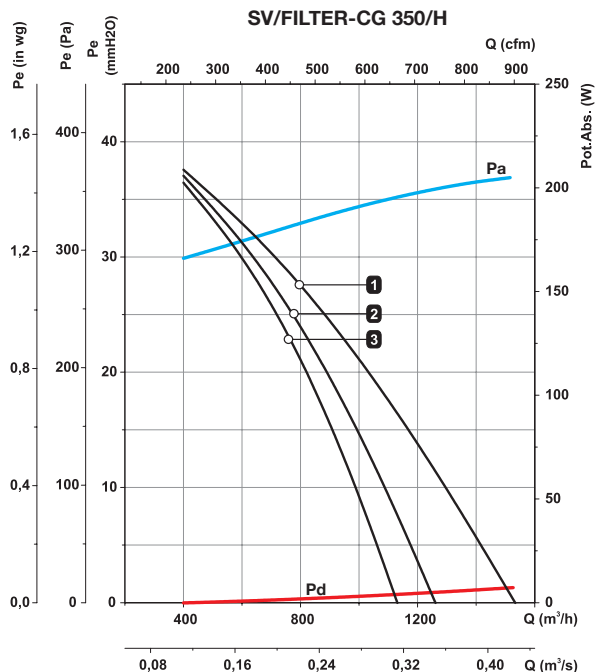
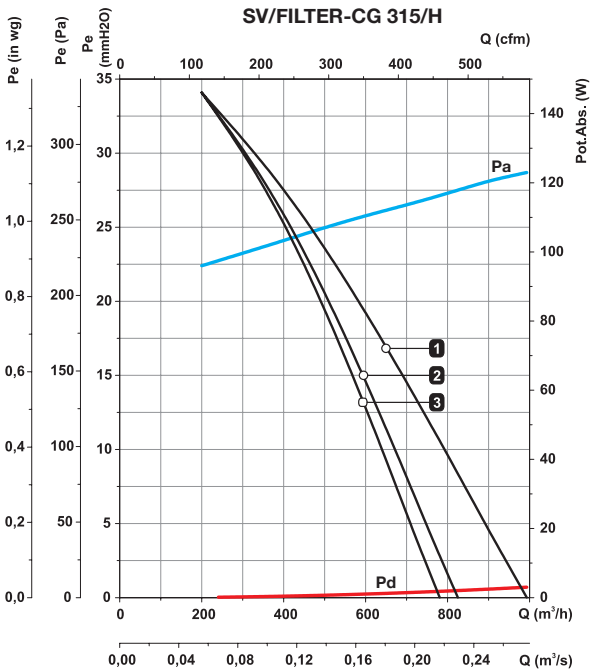
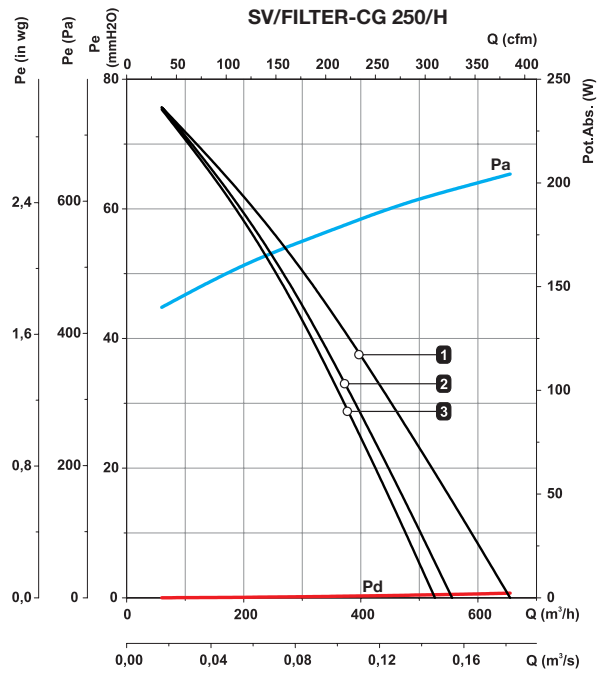
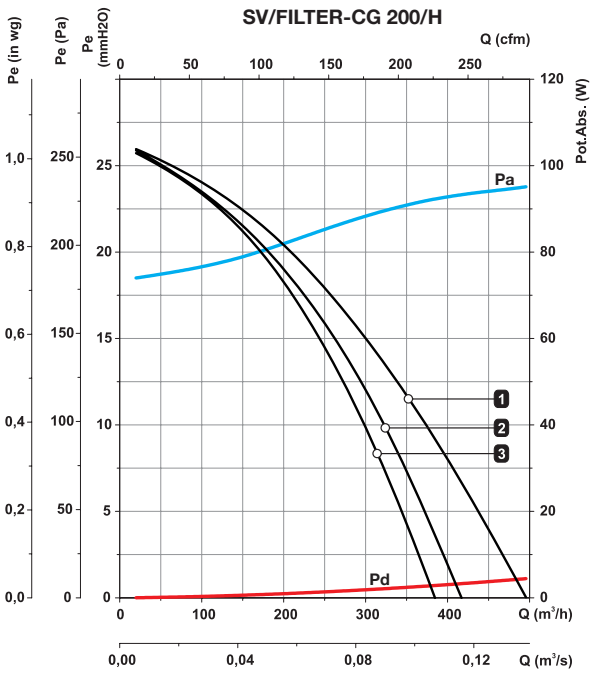
Equipment curve with standard built-in filters **3** F7+F9

Equipment curve with alternative filters **1** G4+F6 **2** F6+F8

Static pressure

Dynamic Pressure

Absorbed power



## Curve characteristics

Equipment curve with standard built-in filters

**3** F7+F9

Equipment curve with alternative filters

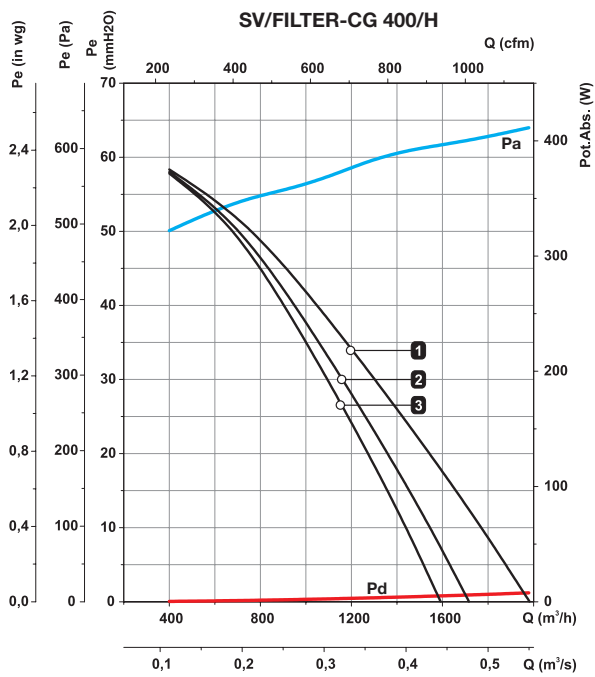
**1** G4+F6

**2** F6+F8

Static pressure

Dynamic Pressure

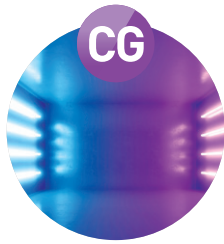
Absorbed power



## Accessories





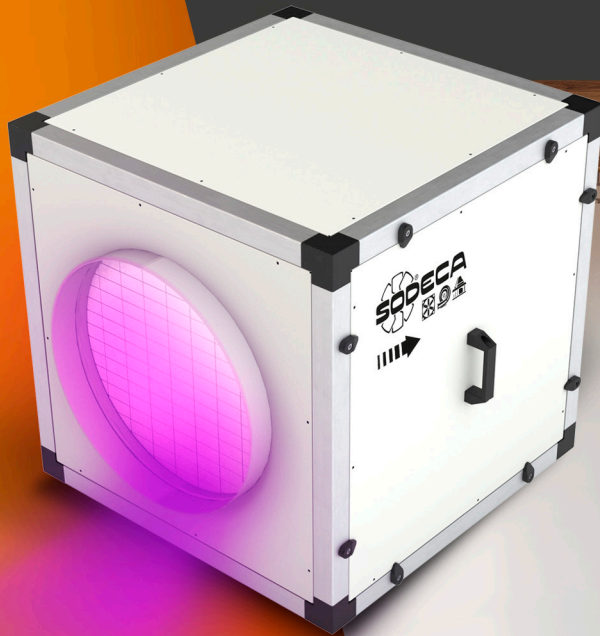


UVc GERMICIDAL  
ULTRAVIOLET  
CHAMBER

# CJK/FILTER-EC

AIR PURIFYING UNITS

- PURIFIES INDOOR AIR
- DIFFERENT STAGES OF FILTERING
- UVc GERMICIDAL CHAMBER
- IDEAL FOR RETAIL AND OTHER PREMISES
- E.C. MOTOR TECHNOLOGY WITH LOW POWER CONSUMPTION
- 25 MM ACOUSTIC CASING



FILTRATION  
STAGE



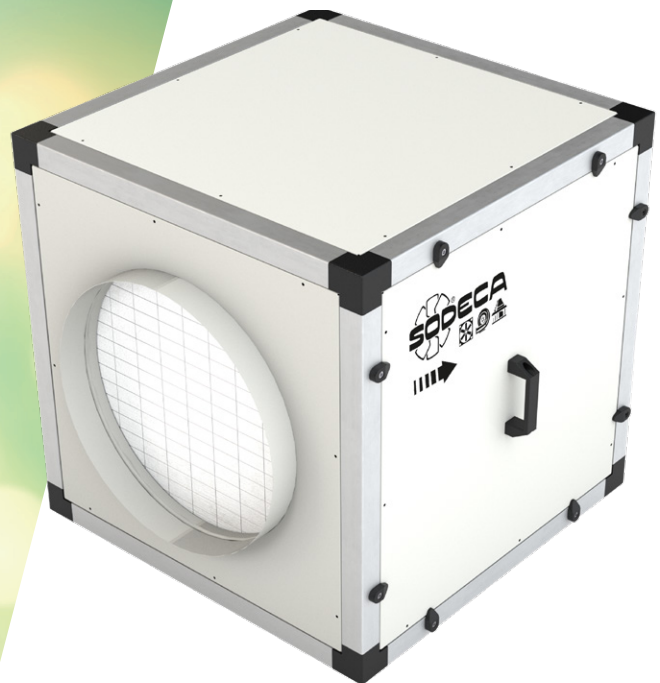
# CJK/FILTER/EC

The CJK / FILTER / EC air purifying units have been designed for the movement, cleaning, odour removal and purification of air, **in high occupancy areas with high demands on soundproofing and versatility.**



## ENERGY SAVING

The air inlet aperture has been designed to aid laminar air flow which, together with a dynamic pressure balancing chamber, helps to optimise efficiency.



## LOW SOUND LEVEL

The 25mm thick noise reducing outer panels use bespoke, high quality insulating materials and make this ideal equipment for installation in areas where a low noise level is required.



## DURABILITY

The outer panels of these units are made of pre-finished sheet metal with 40mm aluminium structural frames to maximise the life of the equipment, allowing it to be installed in outdoors corrosive areas. The installation of a rain cover is recommended to prevent entry of water.



## EASE OF INSTALLATION AND MAINTENANCE

The access door allows quick access to clean the impeller and replace filters.

**F**

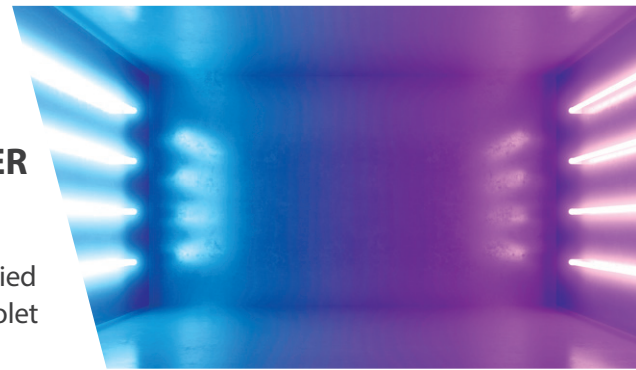
**FILTRATION STAGES**

The units incorporate two stages of F7 + F9 or F7 + HEPA H14 filtration, depending on the model, as well as an activated carbon filter for the elimination of odours, giving a combination with excellent filtration performance.

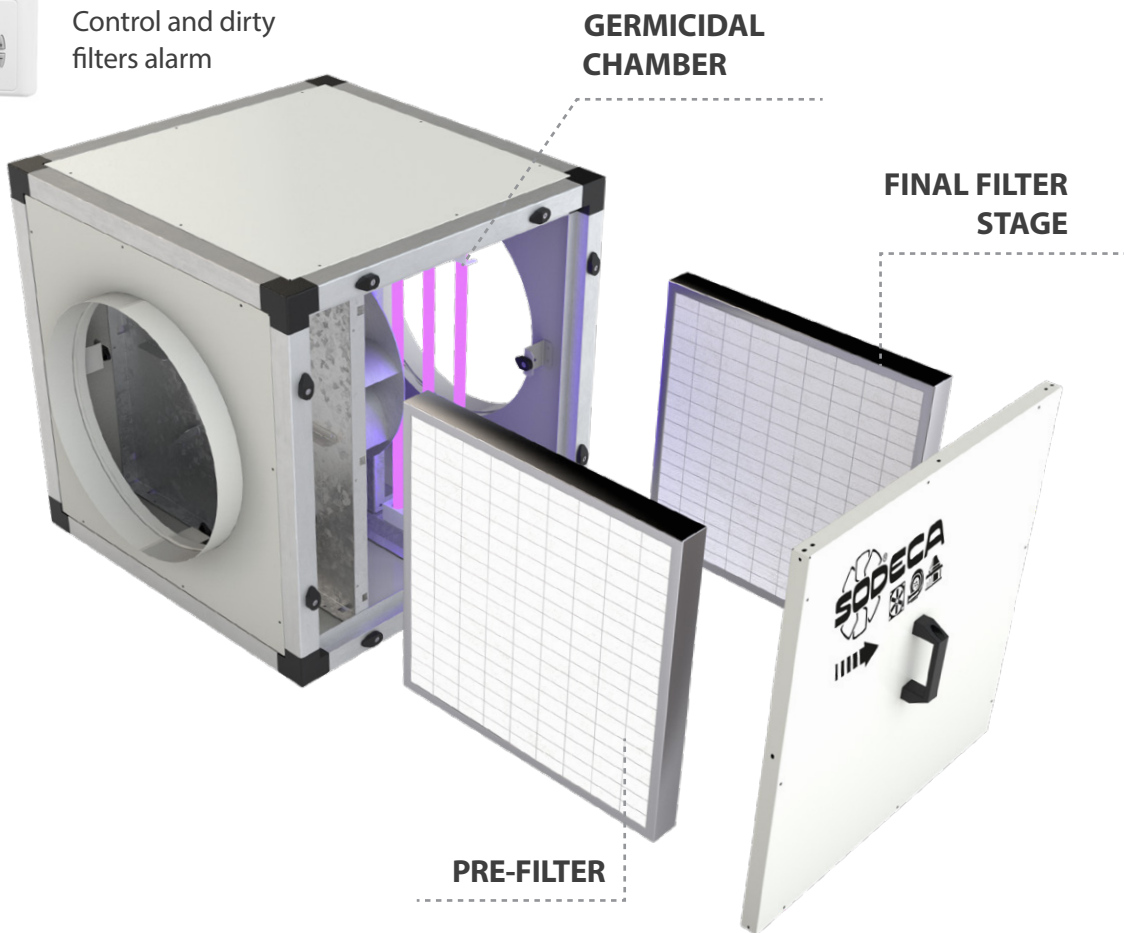
**CG**

**GERMICIDAL CHAMBER**

Depending on model, these purification units can be supplied with an integrated UVC ultraviolet germicidal chamber.

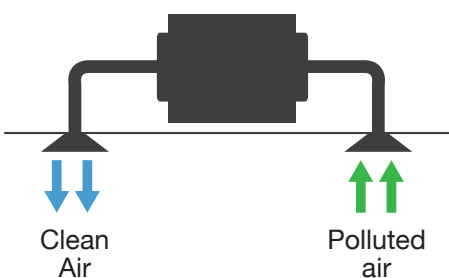


Control and dirty filters alarm

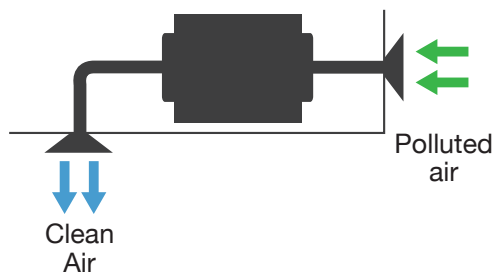


**EXAMPLE OF APPLICATION**

Indoor air purification



Capturing and purifying outdoor air



# CJK/FILTER/EC



**Air purifying units for circular ducts, with 25mm acoustic panels for noise reduction and E.C. motor Technology.**



**Characteristics:**

- Frame made from 40mm profile aluminium.
- Outer panels made of 25 mm thick, high quality acoustic insulation, and pre-finished sheet metal.
- Backward curved impeller.
- Standard flanges on intake and discharge sides to facilitate installation in ducts.
- Filtration stages according to model:
  - F7 + F9
  - F7 + HEPA H14
  - Activated carbon filter odour removal.
- Control and alarm of dirty filters.
- Germicidal chamber with UVc (256 nm), depending on model.
- Inspection cover for maintenance and replacement of filters.

- Air inlet with diffusers to increase the efficiency of the fan.

**Engine:**

- High efficiency E.C. technology, external rotor motor, controllable by 0-10V signal.
- Single phase 200-240V- 50 / 60Hz and three phase 380-480V- 50 / 60Hz.
- Air temperature range of -25°C to +60°C.

**Finish:**

- Aluminum profile frame and pre-finished sheet metal with 25mm thick acoustically insulated panels.

**On demand:**

- Automatic control system.

**Order code**

**CJK/FILTER/EC – 220 – F7+F9 – CG**

- ↓ Air purifying units for circular ducts
- ↓ Impeller diameter in mm
- ↓ Filter F7 + F9  
Filter F7 + HEPA H14
- ↓ Germicidal UVc chamber

**Filters characteristics**

Filters	EN 779 Em	EN 1822	ISO 16890			
			ISO ePM <sub>1</sub>	ISO ePM <sub>2,5</sub>	ISO ePM <sub>10</sub>	ISO COARCE
G4	90%	-	-	-	-	>90%
F7	90%	-	>50%	>65-95%	>85%	-
F9	95%	-	>80%	>95%	>95%	-
HEPA H14	-	>99,995%	-	-	-	-

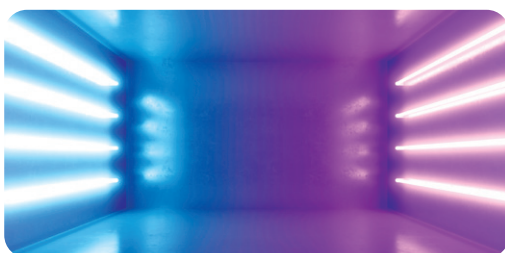
**Technical characteristics**

Model	Recommended effective working area (m <sup>2</sup> ) <sup>1</sup>		Speed (r/min)	Power (W)	Power supply	Sound pressure level at 50% of max speed <sup>2</sup> (dB(A))	Maximum flow (m <sup>3</sup> /h)		Weight (kg)
	Filters (F7+F9)	Filters (F7+H14)					Filters (F7+F9)	Filters (F7+H14)	
CJK/FILTER/EC-220	85	-	3265	176	200-240V 50/60Hz 1Ph	36	850	-	32
CJK/FILTER/EC-250	120	-	2850	180	200-240V 50/60Hz 1Ph	38	1225	-	33
CJK/FILTER/EC-310	140	50	1920	175	200-240V 50/60Hz 1Ph	29	1450	510	34
CJK/FILTER/EC-400	220	130	1550	460	200-240V 50/60Hz 1Ph	38	2200	1300	68
CJK/FILTER/EC-500	300	325	1250	1150	380-480V 50/60Hz 3Ph	36	2990	3250	118

<sup>1</sup> Recommended effective area with premises 3 meters high. <sup>2</sup> Radiated sound pressure level in dB (A) at 1.5 m distance at maximum flow.

**Technical characteristics of the UVc germicidal chamber**

Depending on model, these purification units can integrate a germicidal chamber, built on the basis of UVc ultraviolet lamps in a 256 nm spectrum, a wave amplitude indicated to inactivate a wide variety of microorganisms by absorbing short wavelength energy through DNA and RNA. For specific types of viruses or bacteria that are affected by the radiation dose from the germicidal chamber, consult the specific document.



Model	Number of lamps	Total electric power (W)	Total UVc radiation power (W)	Radiation dose* (mJ/cm <sup>2</sup> )
CJK/FILTER/EC-220	6	66	16,8	6,0
CJK/FILTER/EC-250	6	66	16,8	5,8
CJK/FILTER/EC-310	6	66	16,8	5,9
CJK/FILTER/EC-400	4	100	28	5,6
CJK/FILTER/EC-500	6	150	42	4,5

\*Minimum dose calculated based on flow with F7HEPA H14 filters





### Erp. (Energy Related Products)

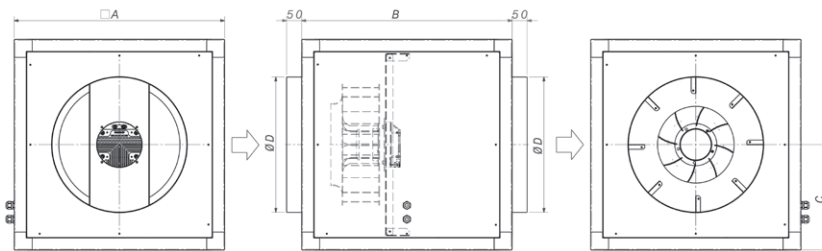
Information on Directive 2009/125 / EC downloadable from the SODECA website or QuickFan selection program.

### Acoustic characteristics

Sound power spectrum L<sub>w</sub> (A) in dB (A) per frequency band in Hz. Values irradiated at maximum speed and average flow.

Model	63	125	250	500	1000	2000	4000	8000
CJK/FILTER/EC-220	50	50	43	50	44	42	45	45
CJK/FILTER/EC-250	46	44	43	45	55	35	34	30
CJK/FILTER/EC-310	30	44	33	32	44	25	24	19
CJK/FILTER/EC-400	37	52	41	42	34	29	27	27
CJK/FILTER/EC-500	30	42	45	50	50	50	47	41

### Dimensions mm



Model	A	B	C	ØD
CJK/FILTER/EC-220	500	500	250	315
CJK/FILTER/EC-250	500	500	250	355
CJK/FILTER/EC-310	500	500	250	355
CJK/FILTER/EC-400	700	700	350	450
CJK/FILTER/EC-500	900	900	450	500

### Accessories

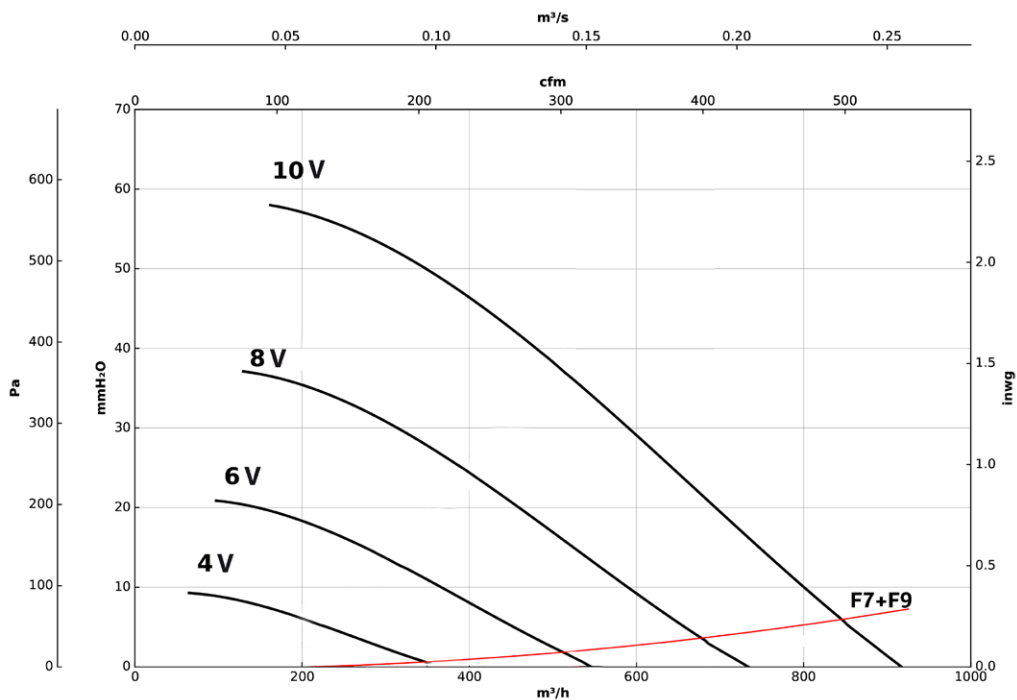


### Characteristic curves

Q= Flow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe= Static pressure in mmH<sub>2</sub>O, Pa and inwg.

#### CJK/FILTER/EC-220

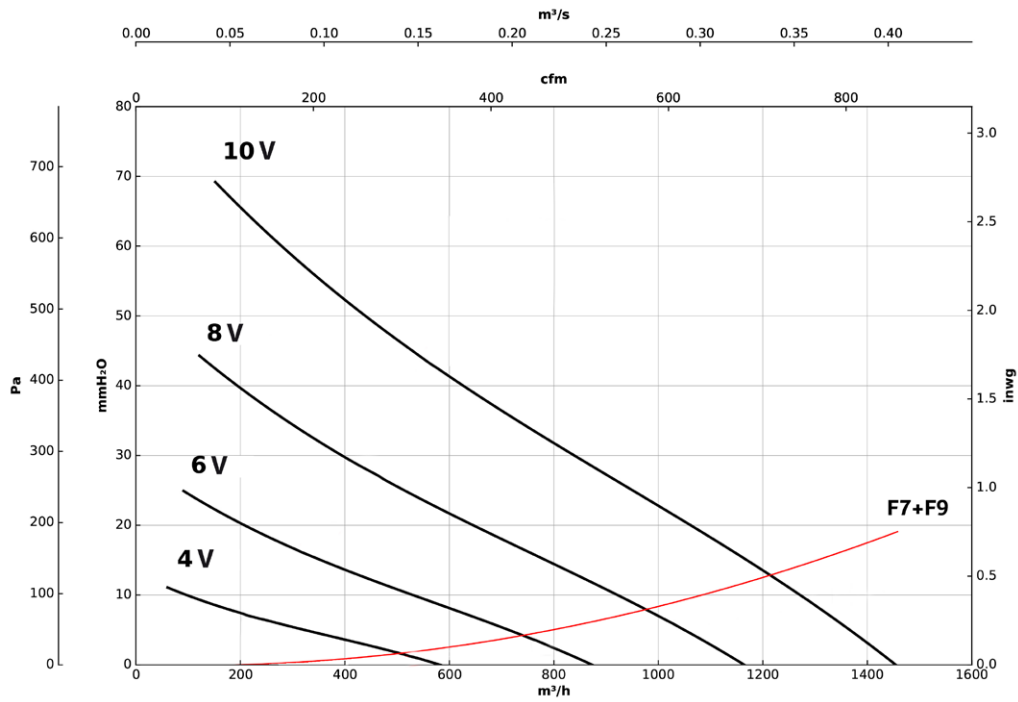


**Characteristic curves**

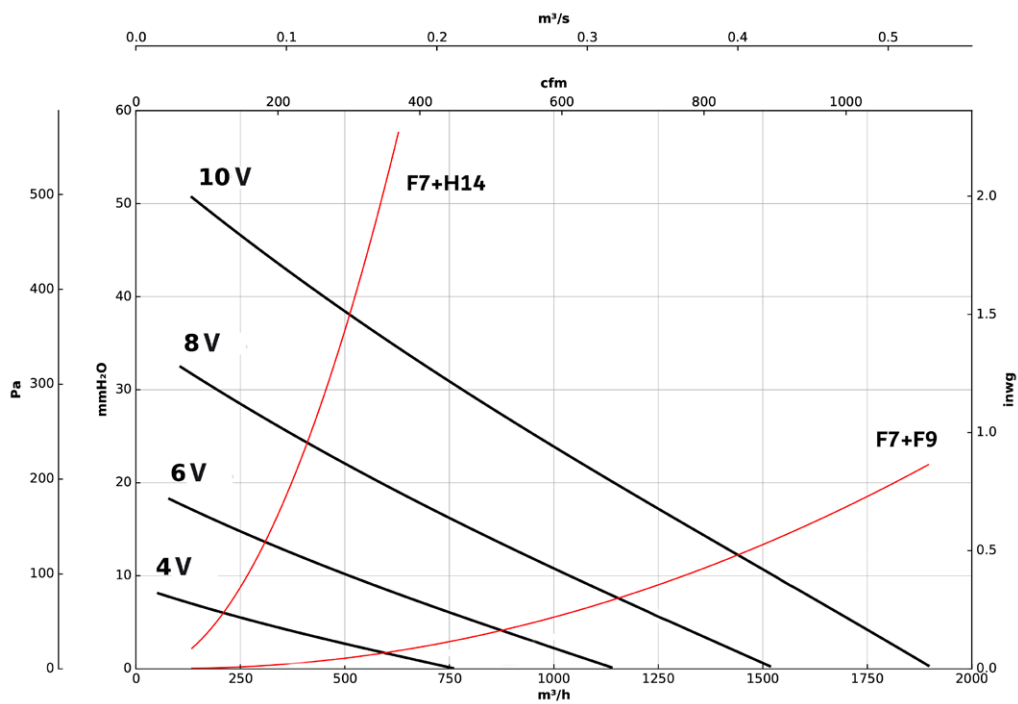
Q= Flow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe= Static pressure in mmH<sub>2</sub>O, Pa and inwg.

**CJK/FILTER/EC-250**



**CJK/FILTER/EC-310**

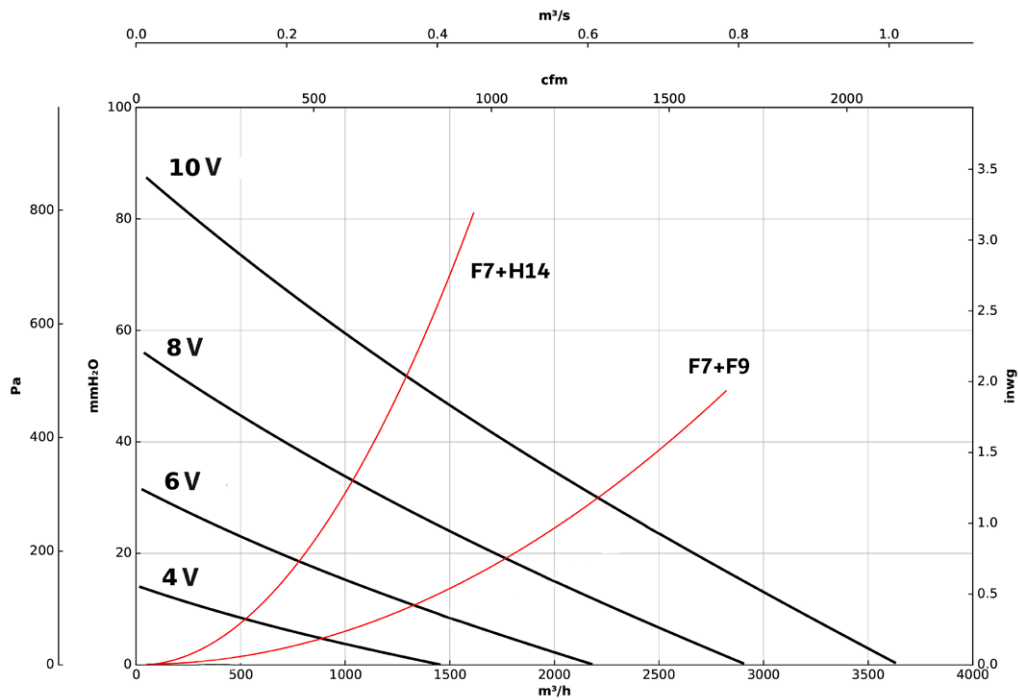


### Characteristic curves

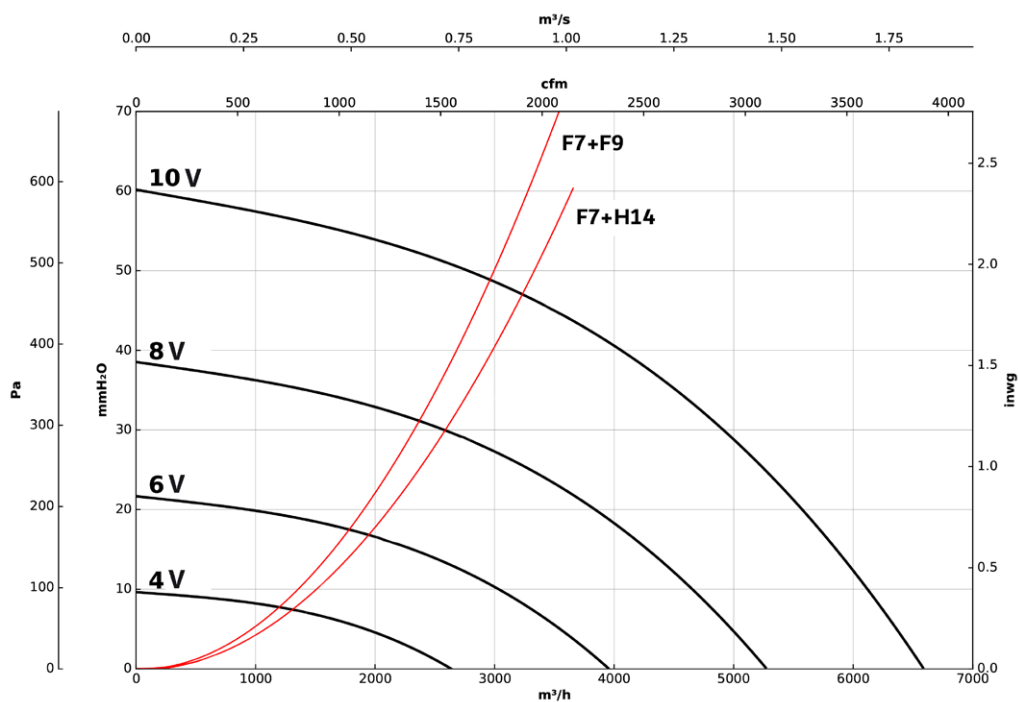
Q= Flow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe= Static pressure in mmH<sub>2</sub>O, Pa and inwg.

#### CJK/FILTER/EC-400



#### CJK/FILTER/EC-500







UVc GERMICIDAL  
ULTRAVIOLET  
CHAMBER

# UPM/EC

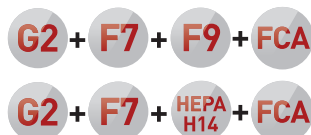
MOBILE AIR PURIFYING UNITS



- PLUG & PLAY SYSTEM WITH AUTOMATIC CONTROL
- IDEAL FOR THE HOSPITALITY AND OTHER INDUSTRIES
- UVc GERMICIDAL CHAMBER
- LOW-POWER, E.C. MOTOR TECHNOLOGY
- 4 STAGES OF FILTRATION
- 25 MM THICK ACOUSTIC CASE



STAGES OF  
FILTRATION



# UPM/EC

The UPM / EC air purifying units have been designed for mobility, purifying and cleaning air and eliminating odours, **in areas of high occupancy where low noise and versatility are important.**



## ENERGY SAVING

The air inlet aperture has been designed to aid laminar air flow which, together with a dynamic pressure balancing chamber, helps to optimise efficiency.

The E.C. motor's high-performance technology is a key element in reducing electrical consumption.



## LOW SOUND LEVEL

The 25mm thick noise reducing outer panels use bespoke, high quality insulating materials and make this ideal equipment for installation in areas where a low noise level is required.



## DURABILITY

The outer panels of these units are made of pre-finished sheet metal with 40mm aluminium structural frames to maximise the life of the equipment.



## EASE OF INSTALLATION AND MAINTENANCE

The access door allows quick access to clean the impeller and replace filters.



## CONFIGURABLE FILTRATION STAGES

In addition to the odour eliminating activated carbon filter, the equipment has two intake pre-filters and one discharge filter, with a range of configurations, all giving the equipment an excellent filtration performance.



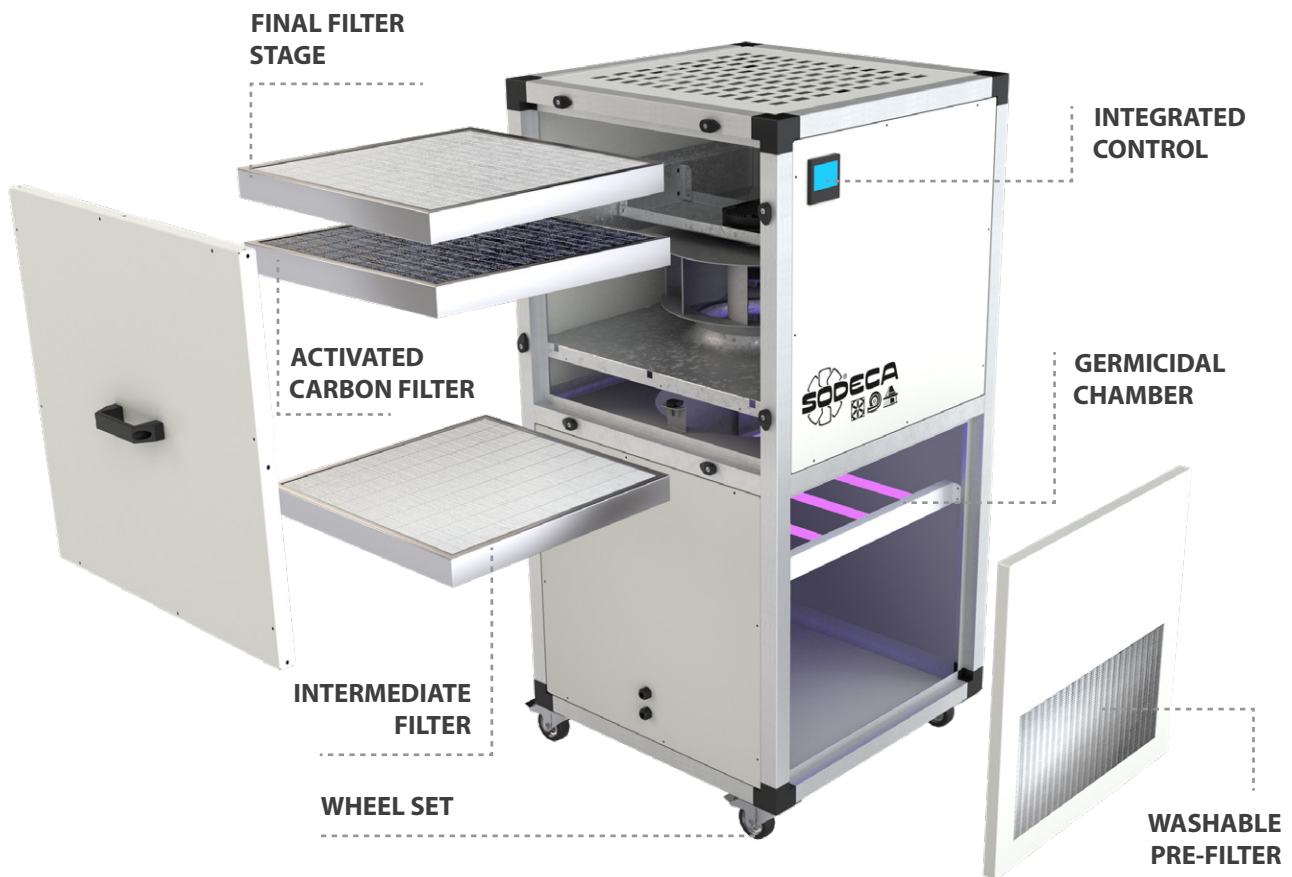
## INTEGRATED CONTROL SYSTEM

- ON / OFF fan
- Adjustable flow 65% - 100%
- ON/OFF germicidal chamber
- Time control
- Control and alarm of dirty filters
- Automatic operation



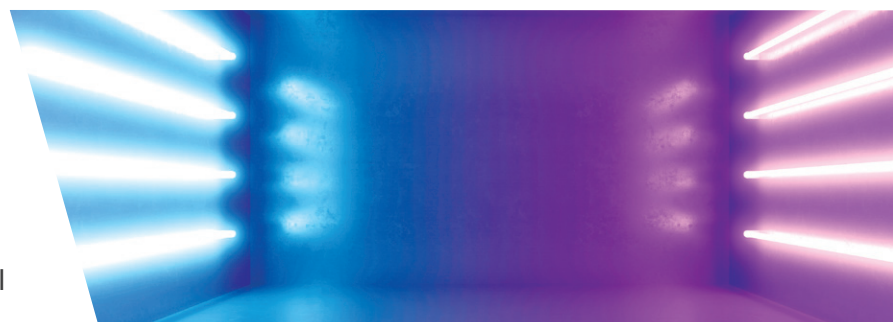
## WASHABLE PRE-FILTER

The first pre-filter catches small, lint type particles, together with larger particles and is dishwasher safe.



## GERMICIDAL CHAMBER

Depending on model, these purification units can be supplied with an integrated germicidal chamber, using UV ultraviolet lamps "C" range.



# UPM/EC

**Mobile air purifying units, designed for cleaning and purifying indoor air and eliminating odours in any type of room.**



**Characteristics:**

- Frame made from 40mm profile aluminium.
- Set of wheels.
- Plug & Play system with integrated control.
- Control and dirty filters alarm.
- Outer panels made of 25 mm thick, high quality acoustic insulation, and pre-finished sheet metal.
- Backward curved impeller.
- Dishwasher safe pre-filter.
- Filtration stages, depending on model:
  - F7 + F9
  - F7 + HEPA H14
- Activated carbon filter for odour removal.
- Inspection cover for maintenance and filter replacement.
- Germicidal chamber with UVc (256 nm), depending on model.

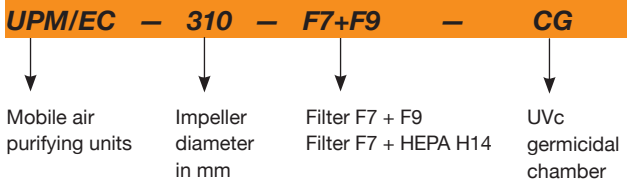
**Motor:**

- High efficiency E.C. technology, external rotor motor, controllable by 0-10V signal.
- Single phase 200-240V- 50 / 60Hz and three phase 380-480V- 50 / 60Hz.
- Air temperature range of -25°C to +60°C.

**Finish:**

- Aluminum profile frame and pre-finished sheet metal with 25mm thick acoustically insulated panels.

**Order code**



**Filter characteristics**

Filters	EN 779 Em	EN 1822	ISO 16890			
			ISO ePM <sub>1</sub>	ISO ePM <sub>2,5</sub>	ISO ePM <sub>10</sub>	ISO COARCE
G4	90%	-	-	-	-	>90%
F7	90%	-	>50%	>65-95%	>85%	-
F9	95%	-	>80%	>95%	>95%	-
HEPA H14	-	>99,995%	-	-	-	-

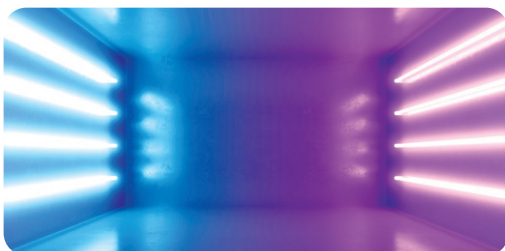
**Technical characteristics**

Model	Recommended effective working area <sup>1</sup> (m <sup>2</sup> )		Speed (r/min)	Power (W)	Power supply	Sound pressure level at 50% of max speed <sup>2</sup> (dB(A))	Maximum flow rate (m <sup>3</sup> /h)		Weight (kg)
	Filters (F7+F9)	Filters (F7+H14)					Filters (F7+F9)	Filters (F7+H14)	
UPM/EC-310	140	50	1920	175	200-240V 50/60Hz 1Ph	29	1450	510	55
UPM/EC-400	220	130	1550	460	200-240V 50/60Hz 1Ph	38	2200	1300	97
UPM/EC-500	300	325	1250	1150	380-480V 50/60Hz 3Ph	36	2990	3250	165

<sup>1</sup> Recommended effective working area with a 3-meter-high premises. <sup>2</sup> Radiated sound pressure level in dB (A) at 1.5 m distance at maximum flow.

**Technical characteristics of the UVc germicidal chamber**

Depending on model, these purification units can be supplied with an integral germicidal chamber, using UV ultraviolet lamps “C” in a spectrum of 256 nm, indicated wave amplitude, to inactivate a wide variety of microorganisms by absorbing short wavelength energy through DNA and RNA. For specific types of viruses or bacteria that are affected by the radiation dose in the germicidal chamber, consult the specific document.



Model	Number of lamps	Total electrical power (W)	Total UVc radiation power (W)	Radiation dose* (mJ/cm <sup>2</sup> )
UPM/EC-310	6	66	16,8	5,9
UPM/EC-400	4	100	28	5,6
UPM/EC-500	6	150	42	4,5

\*Minimum dose calculated based on flow with F7+H14 filters.





## Erp. (Energy Related Products)

Information on Directive 2009/125 / EC downloadable from the SODECA website or QuickFan selection program.

### Acoustic parameters

Sound power spectrum L<sub>w</sub> (A) in dB (A) per frequency band in Hz.  
Values are at maximum speed and average flow.

Model	63	125	250	500	1000	2000	4000	8000
UPM/EC-310	30	44	33	32	44	25	24	19
UPM/EC-400	37	52	41	42	34	29	27	27
UPM/EC-500	30	42	45	50	50	50	47	41

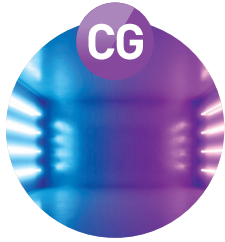
### Dimensions mm



Model	A (mm)	B (mm)	H (mm)
UPM/EC-310	542	500	960
UPM/EC-400	742	700	1210
UPM/EC-500	942	900	1550

\*Data subject to change without prior notice.





GERMICIDAL UVc  
ULTRAVIOLET  
LAMP

# UPA

AIR PURIFYING UNITS



- PURIFIES INDOOR AIR
- IMPROVES HEALTH
- CLEANS PARTICLES AND ODOURS
- PERFECT FOR INDUSTRY AND HIGH OCCUPATION PREMISES
- OPTIMAL FOR DATA CENTRES
- SUITABLE FOR PHARMACEUTICAL AND HEALTHCARE INDUSTRIES



## STAGES OF FILTRATION



ACTIVATED CARBON



EFFICIENCY 70%



99.95% EFFICIENCY



LAMP UVC GERMICIDE

# UPA

**Units specifically designed for cleaning and purification of indoor air, in any type of premises and especially in areas with high occupancy, also suitable for pharmaceutical and healthcare applications.**



**Features:**

- Plug-fan type fans with EC technology.
- Efficient, adjustable and low noise level equipment.
- Filtration stages according to model
  - First stage of F7 Filtering.
  - Activated carbon filter.
  - Final filter F9.
  - HEPA H14 final filter, 99.95% efficiency.
  - UVc germicidal chamber, depending on order code.
- Control panel with on / off and dirty filters indicator.
- Two speed selector.
- Germicidal chamber operation led indicator.
- Fully removable access door for cleaning and maintenance
- Insulated panels.

**Motor:**

- High efficiency, external rotor, E.C. technology motors, incorporating constant flow regulation, with two, pre-adjustable set points.
- Single phase 200-230V– 50 / 60Hz.

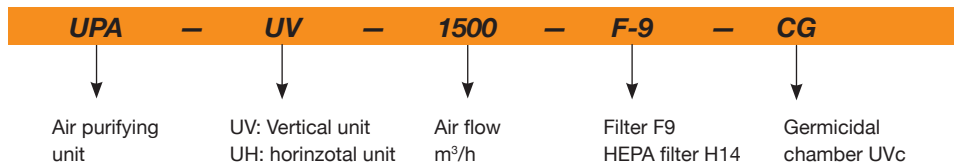
**Finish:**

- Frames made form aluminum section and 25mm insulated panels, pre-finished exterior, galvanized interior.

**On demand:**

- Drive Module 1 Front grille.
- Drive module with circular ducts.
- Equipped with wheels.

**Order code**



**Technical characteristics**

Model	Recommended effective working area <sup>1</sup> (m <sup>2</sup> )	Maximum flow (m <sup>3</sup> /h) (CFM)	Available pressure (Pa)	Power supply (V)	Sound level dB(A)	Fan (KW)	Weight (kg)	
UPA-UV-1500	200-350	1.500	883	250	200-230V 50/60Hz 1Ph	47	0,76	113
UPA-UV-3000	300-450	3.000	1766	250	200-230V 50/60Hz 1Ph	51	1,35	140
UPA-UV-4500	450-900	4.500	2649	300	200-230V 50/60Hz 1Ph	55	2,7	177
UPA-UV-6000	900-1.100	6.000	3531	250	200-230V 50/60Hz 1Ph	59	5,4	215
UPA-UH-1500	200-350	1.500	883	250	200-230V 50/60Hz 1Ph	47	0,76	108
UPA-UH-3000	300-450	3.000	1766	250	200-230V 50/60Hz 1Ph	52	1,52	138
UPA-UH-4500	450-900	4.500	2649	250	200-230V 50/60Hz 1Ph	55	2,7	135
UPA-UH-6000	900-1.100	6.000	3531	250	200-230V 50/60Hz 1Ph	59	5,4	155

<sup>1</sup> Recommended area with a 3 meter high premises. \* Available pressure with G4 and F9 filter

**Construction**

**Vertical Unit (UV)**

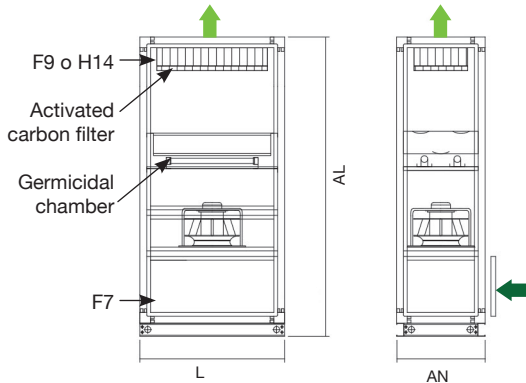
Vertical Unit (UV) ideal for direct use in the rooms being purified, it can also be supplied on request with a drive module with outlet diffusion grille and with wheels if required.

**Horizontal Unit (UH)**

Horizontal Unit (UH) deigned to be installed in ceiling spaces and ducted to the areas where the air needs to be treated.

## Dimensions mm

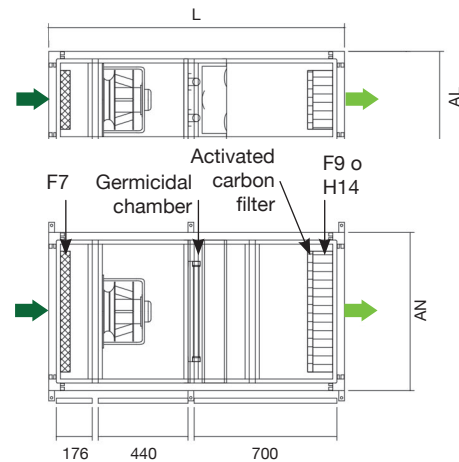
### Vertical Unit



Model	L (mm)	AN (mm)	AL (mm)
UPA-UV-1500	774	474	1600
UPA-UV-3000	774	779	1600
UPA-UV-4500	1079	779	1600
UPA-UV-6000	1504	779	1600

\*Data subject to change without prior notice.

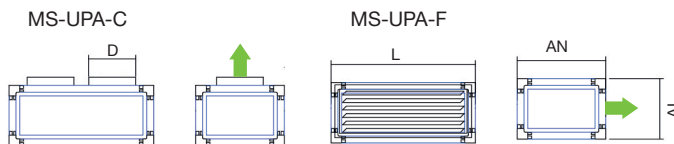
### Horizontal Unit



Model	L (mm)	AN (mm)	AL (mm)
UPA-UH-1500	1450	774	479
UPA-UH-3000	1450	1366	479
UPA-UH-4500	1450	1069	779
UPA-UH-6000	1450	1366	779

\*Data subject to change without prior notice.

### Drive modules



Model	L (mm)	W (mm)	H (mm)	D (mm)	Number of ducts	Weight (Kg)
MS-UPA-1500	774	474	324	250	2	25
MS-UPA-3000	774	779	490	250	4	33
MS-UPA-4500	1079	779	490	250	6	42
MS-UPA-6000	1504	779	490	-	-	55

### Filtered

These air purification units are equipped with filters capable of removing at least 70% of particles larger than 0.4µm.

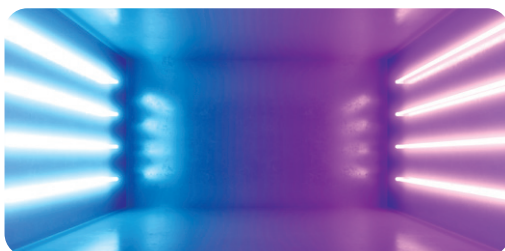
The standard model comes with a first G-4 filter stage and a final F-9 filter, it also incorporates as standard, an activated carbon stage, designed to remove stale odours produced during everyday use of the premises.

Depending on model type H14 HEPA filters can be installed with a minimum retention capacity of 99.95% for particles larger than 0.3µm.

Filters	EN 779 Em	EN 1822	ISO 16890			
			ISO ePM <sub>1</sub>	ISO ePM <sub>2,5</sub>	ISO ePM <sub>10</sub>	ISO COARCE
G4	90%	-	-	-	-	>90%
F7	90%	-	>50%	>65-95%	>85%	-
F9	95%	-	>80%	>95%	>95%	-
HEPA H14	-	>99,995%	-	-	-	-

### Technical characteristics of the UVC germicidal lamp

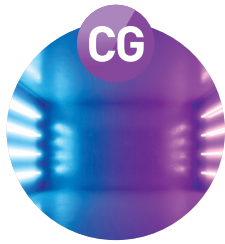
Depending on model and on request, these purification units can be supplied with an integrated germicidal chamber using UV "C" ultraviolet lamps, in the spectrum of 256 nm wave amplitude to inactivate a wide variety of microorganisms by absorbing short wavelength energy through DNA and RNA.



Model	Number of lamps	Total electrical power (W)	Total UVC radiation power (W)	Dose ratio* (mJ/cm <sup>2</sup> )
CG-UV-1500	3	48	21	4,85
CG-UV-3000	7	112	48	5,66
CG-UV-4500	4	216	70	5,39
CG-UV-6000	14	224	98	5,47
CG-UH-1500	3	48	21	5,17
CG-UH-3000	2	150	51	6,28
CG-UH-4500	4	216	70	5,89
CG-UH-6000	14	224	98	6,04

\*Minimum dose calculated based on flow with F7 +F9 filters





UVc GERMICIDAL  
ULTRAVIOLET  
CHAMBER

# CG/FILTER-UVc

AIR PURIFYING UNITS  
WITHOUT FAN

- PURIFIES INDOOR AIR
- DIFFERENT STAGES OF FILTERING
- UVC GERMICIDAL CHAMBER
- FOR EXISTING AIR CONDITIONING AND VENTILATION INSTALLATIONS
- 25 MM ACOUSTIC CASING

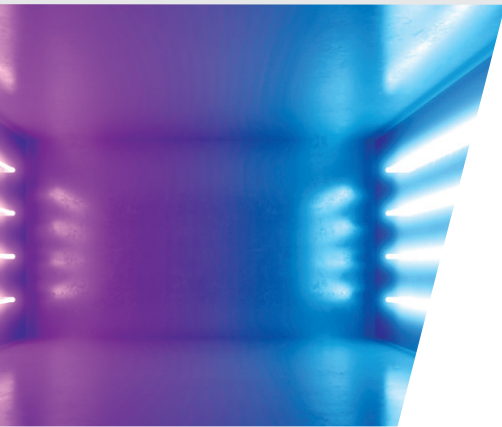


ETAPAS DE  
FILTRACIÓN



# CG/FILTER/UVC

The CG / FILTER-UVC air purifying units without fan have been designed to be used in existing air conditioning and ventilation installations, to clean and purify air, **in high occupancy areas with high demands for soundproofing and versatility.**



**CG**

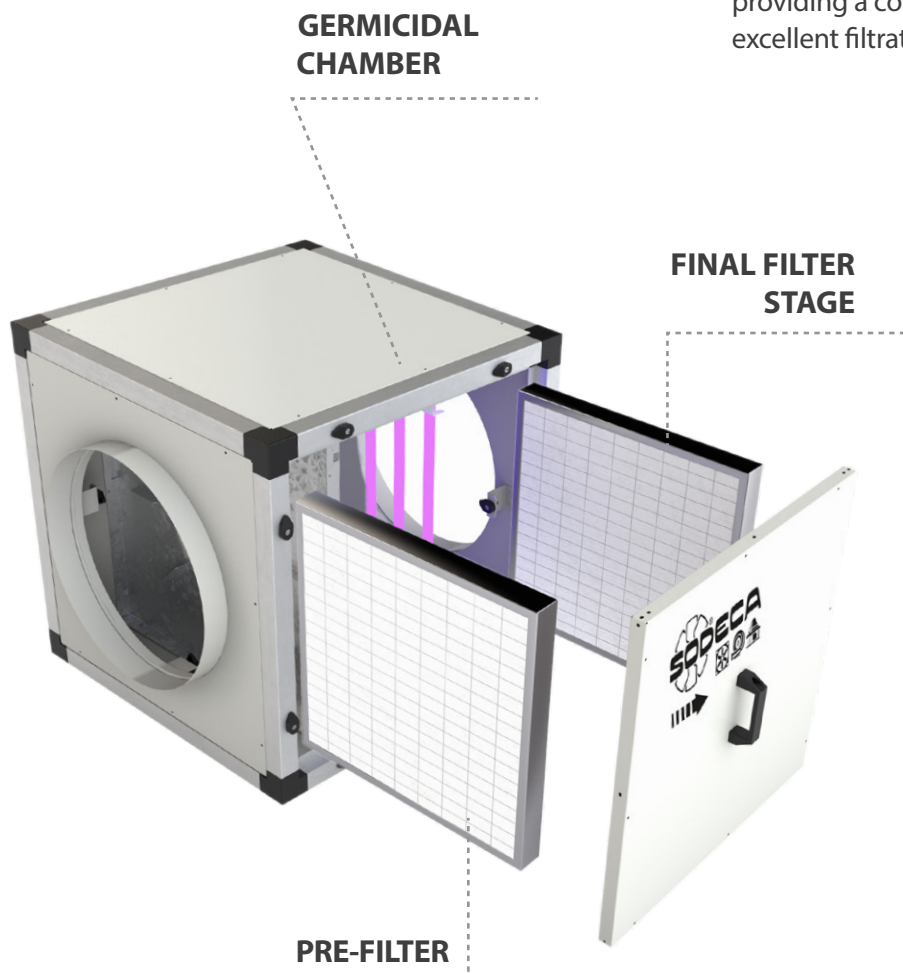
## GERMICIDAL CHAMBER

Depending on the model, these purification units can integrate a germicidal chamber, built on the basis of UVC ultraviolet lamps.

**F**

## FILTRATION STAGES

They incorporate two stages of F7 + F9 or F7 + HEPA H14 filtering depending on the model, as well as an activated carbon filter for the elimination of odours, providing a combination with excellent filtration performance.







### LOW SOUND LEVEL

The 25mm thick noise reducing outer panels use bespoke, high quality insulating materials and make this ideal equipment for installation in areas where a low noise level is required.



### DURABILITY

The outer panels of these units are made of pre-finished sheet metal with aluminium structural frames to maximise the life of the equipment, allowing it to be installed in outdoors corrosive areas. The installation of a rain cover is recommended to prevent entry of water.

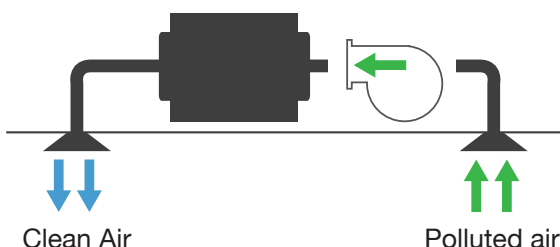


### EASE OF INSTALLATION AND MAINTENANCE

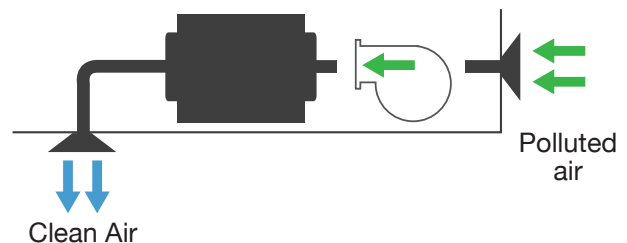
The access door allows quick access to clean the impeller and replace filters.

## EXAMPLE OF APPLICATION

Indoor air purification

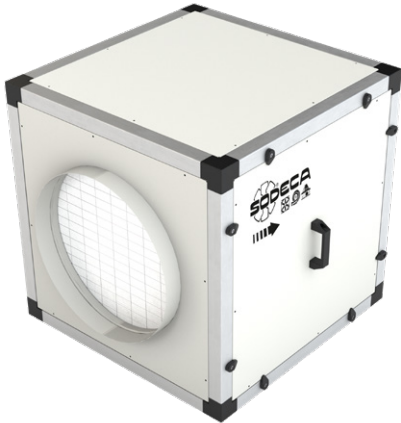


Capturing and purifying outdoor air



# CG/FILTER-UVc

Air purifying units for circular ducts, with 25mm acoustic panels for noise reduction, without fan.



**Characteristics:**

- Frame made from 40mm profile aluminium.
- Outer panels made of 25 mm thick, high quality acoustic insulation, and pre-finished sheet metal.
- Standard flanges on intake and discharge sides to facilitate installation in ducts.
- Filtration stages according to model:
  - F7 + F9
  - F7 + HEPA H14
  - Activated carbon filter odour removal
- Germicidal chamber with UVc light (256 nm), depending on model.

- Inspection cover for maintenance and replacement of filters.

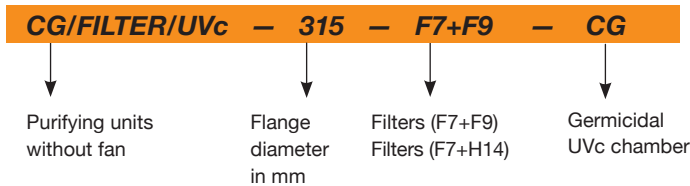
**Finish:**

- Aluminum profile frame and pre-finished sheet metal with 25mm thick acoustically insulated panels.

**On demand:**

- Automatic control system.

**Order code**



**Technical characteristics**

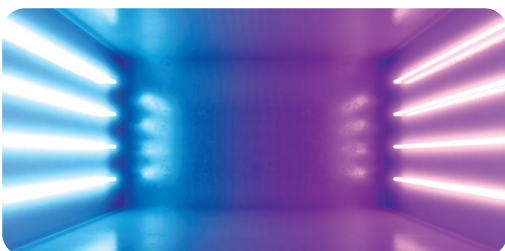
Model	Maximum flow (m³/h)		Weight (kg)
	Filters (F7+F9)	Filters (F7+H14)	
CG/FILTER/UVc-315	1225	550	30
CG/FILTER/UVc-355	1450	510	30
CG/FILTER/UVc-450	2200	1300	62
CG/FILTER/UVc-500	2990	3250	105

**Filters characteristics**

Filters	EN 779 Em	EN 1822	ISO 16890			
			ISO ePM <sub>1</sub>	ISO ePM <sub>2,5</sub>	ISO ePM <sub>10</sub>	ISO COARCE
G4	90%	-	-	-	-	>90%
F7	90%	-	>50%	>65-95%	>85%	-
F9	95%	-	>80%	>95%	>95%	-
HEPA H14	-	>99,995%	-	-	-	-

**Technical characteristics of the UVc germicidal chamber**

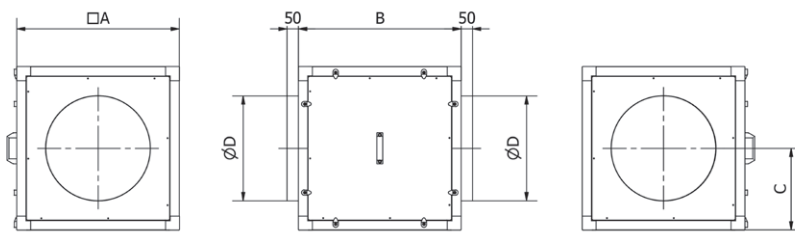
Depending on model, these purification units can integrate a germicidal chamber, built on the basis of UVc ultraviolet lamps in a 256 nm spectrum, a wave amplitude indicated to inactivate a wide variety of microorganisms by absorbing short wavelength energy through DNA and RNA. For specific types of viruses or bacteria that are affected by the radiation dose from the germicidal chamber, consult the specific document.



Model	Number of lamps	Total electric power (W)	Total UVc radiation power (W)	Radiation dose* (m.I / cm2)
CG/FILTER/UVc-315	6	66	16,8	6,0
CG/FILTER/UVc-355	6	66	16,8	5,9
CG/FILTER/UVc-450	4	100	28	5,6
CG/FILTER/UVc-500	6	150	42	4,5

\*Minimum dose calculated based on flow with F7HEPA H14 filters.

## Dimensions mm



Model	A	B	C	ØD
CG/FILTER/UVc-315	500	500	250	315
CG/FILTER/UVc-355	500	500	250	355
CG/FILTER/UVc-450	700	700	350	450
CG/FILTER/UVc-500	900	900	450	500

## Accesorios

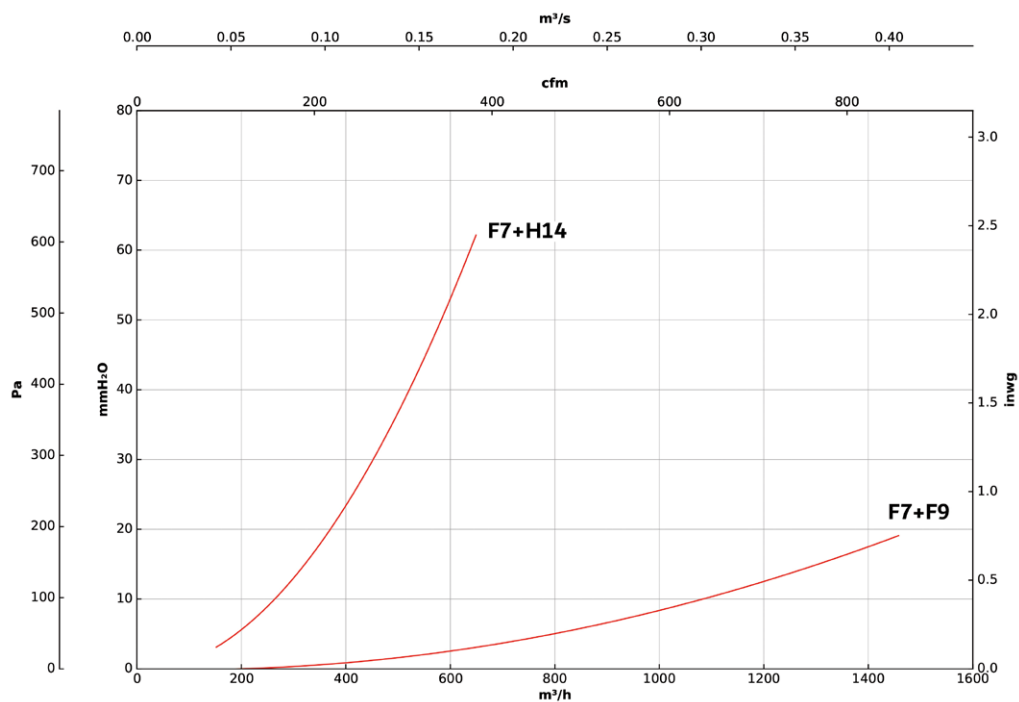


## Characteristic curves

Q= Flow in  $m^3/h$ ,  $m^3/s$  and  $cfm$ .

Pe= Static pressure in  $mmH_2O$ , Pa and  $inwg$ .

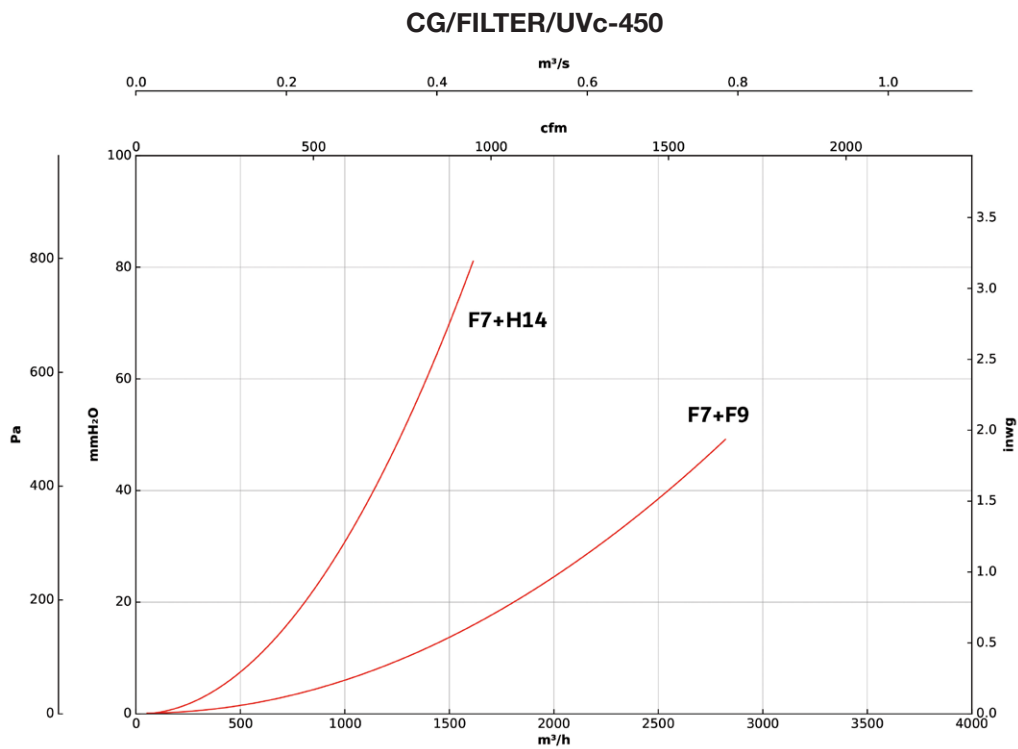
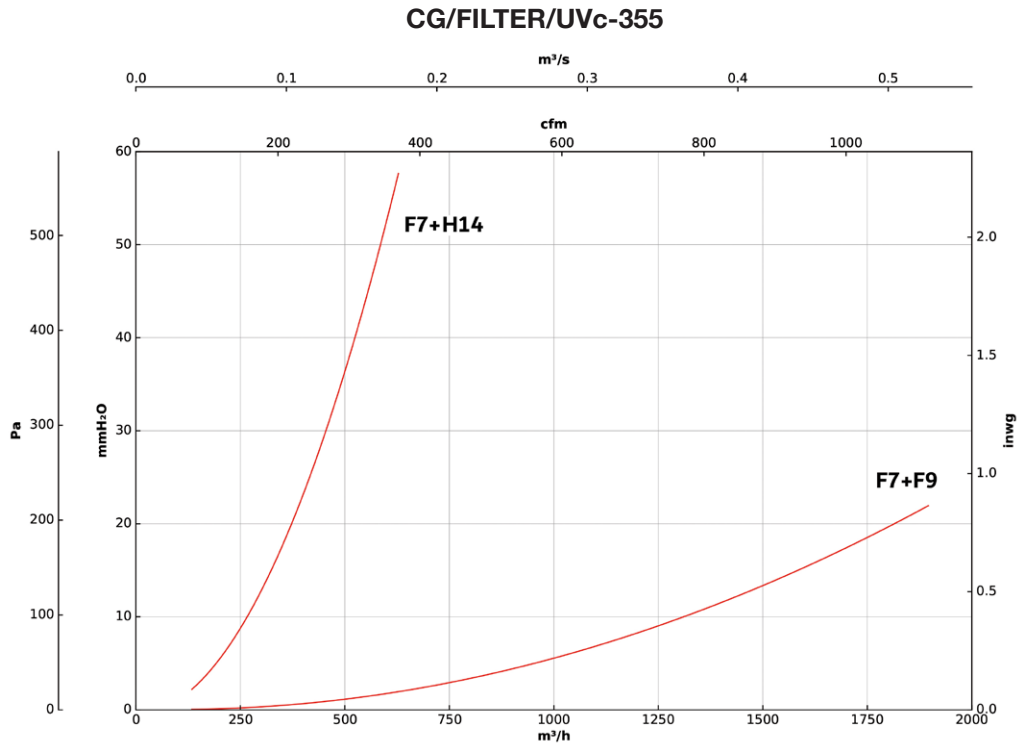
### CG/FILTER/UVc-315



**Characteristic curves**

Q= Flow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

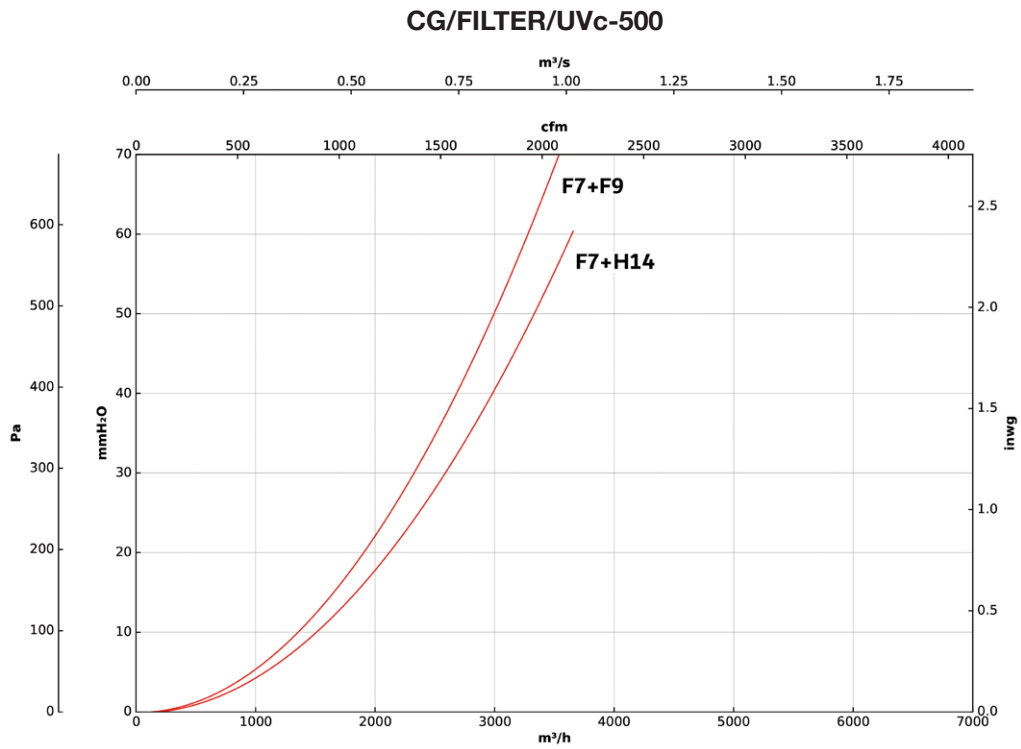
Pe= Static pressure in mmH<sub>2</sub>O, Pa and inwg.



### Characteristic curves

Q= Flow in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm.

Pe= Static pressure in mmH<sub>2</sub>O, Pa and inwg.



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