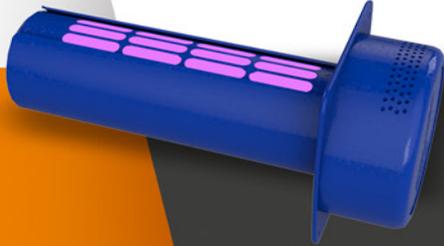


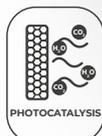


UPC/EC PCO

VENTILATION AND PURIFICATION UNITS WITH PHOTOCATALYSIS TECHNOLOGY AND HEPA FILTER FOR CLEANING AND DISINFECTING AIR AND SURFACES INSIDE DUCTS



- BUILT-IN PHOTOCATALYST DEVICE
- AUTOMATIC REGULATION AND CONTROL
- 3 FILTRATION STAGES WITH HEPA FILTER
- THERMAL AND ACOUSTIC INSULATION
- EC TECHNOLOGY MOTOR
- EASY ACCESS FOR MAINTENANCE



FILTRATION STAGES

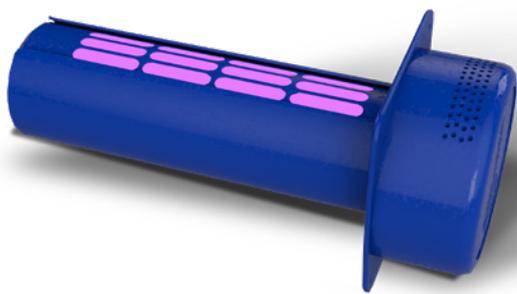




UPC/EC PCO

UPC/EC PCO air purification units are designed for disinfecting, cleaning, eliminating odours and purifying air **in high occupancy areas that have stringent soundproofing and versatility requirements.**

ACTIVE DISINFECTING TECHNOLOGY



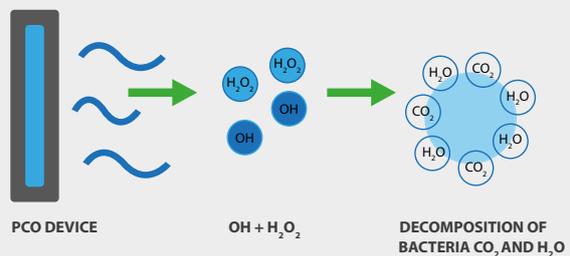
PCO™ technology (Photocatalytic Oxidation) is a powerful tool that is used for purifying air and nearby surfaces, by accelerating the natural decomposition of organic matter through photocatalysis.

Additionally, our equipment has built-in modules with **positive and negative ionisation technology**, which improve their purifying efficacy against ultra-fine dust and odours.

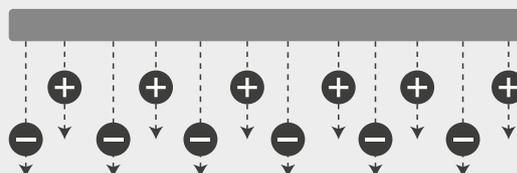
HOW DOES IT WORK?

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 (H₂O₂), 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





APPLICATIONS

Purifying the 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.

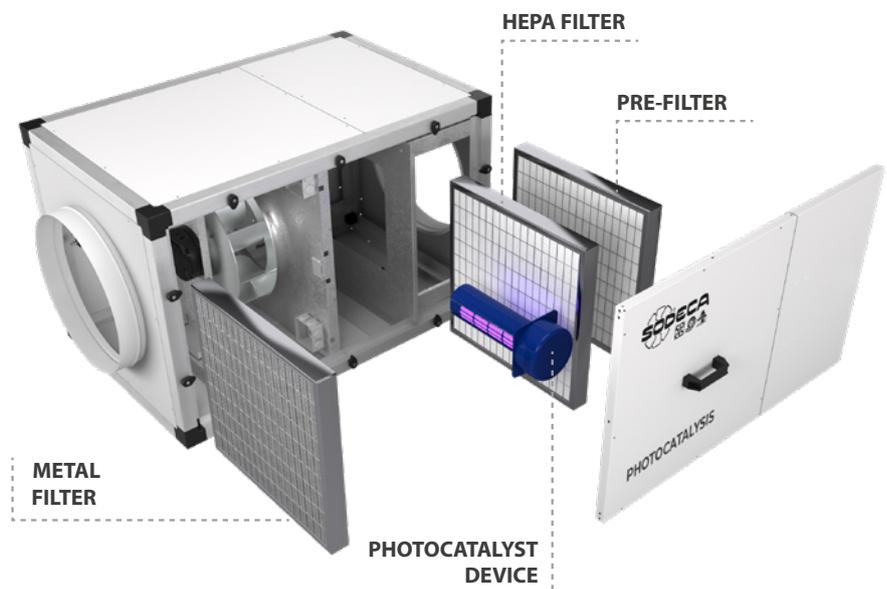
PCO technology is also suitable for use at locations where there is a need to disinfect large material surfaces through the air.

RECOMMENDED FOR

- Hospitals
- Food industry
- Businesses
- Offices
- Waiting rooms
- Clean rooms
- Libraries

BENEFITS

- Eliminates germs, viruses, mould and bacteria
- Does not pollute
- Reduces odours
- Helps alleviate allergies and control asthma
- Effective against all organic pollutants
- Eliminates ultra-fine dust and animal hair
- Eases the cleaning of air ducts





ENERGY SAVINGS

The inlet panel incorporates diffusers to prevent the air flow from swirling, which together with a dynamic pressure balance chamber, increases the unit's performance. **The EC Technology type electric motor as well as the built-in PCO device are high efficiency units** and essential for reducing the electrical consumption.



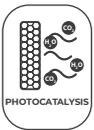
LOW NOISE LEVEL

The EC Technology motor as well as the 25 mm acoustic casing are made of high-quality insulating material, ensuring that this unit operates at low noise levels.



DURABILITY

These units are made from prefinished sheet metal and aluminium profiles, providing them with excellent corrosion resistance, increasing their service life.



PHOTOCATALYST DEVICE

Device with PCO technology and ambient air positive and negative ionisation technology. Designed to improve indoor air quality as well as disinfecting air and nearby surfaces to eliminate germs, viruses and bacteria.



AUTOMATIC CONTROL SYSTEM

Allows programming of the unit, turning on and off and adjusting airflow.



EASY TO INSTALL AND MAINTAIN

The inside of the unit can be quickly accessed through the inspection panel for cleaning and for filter replacement or to use the UVc ultraviolet light if required.



PRODUCTS WITH CERTIFIED PCO TECHNOLOGY THAT ARE 100% EFFECTIVE IN 10 MINUTES AGAINST MENOGENIVIRUS

The efficacy of PCO technology has been proven in a laboratory certified by ENAC and APPLUS+ in accordance with standard EN 14476 for the evaluation of virucidal activity in the medical area for antiseptic and disinfectant tests.

Mengovirus is a microorganism of the same family as the SARS-CoV-2, which causes COVID-19.



UPC/EC PCO



Air purification units with technology based on photocatalysis



Ventilation and purification units with photocatalysis technology and HEPA filter for cleaning and disinfecting air and surfaces inside any high occupancy area.

Characteristics:

- 40 mm aluminium profile structure.
- Dirty filter monitoring and alarm.
- Covers made from prefinished sheet, with high quality, 25 mm thick acoustic insulation.
- Backward-curved impeller.
- Built-in photocatalyst device with negative ionisation.
- Filtration stages: F7 + HEPA H14.
- Inspection cover for maintenance and filter replacement.
- Effective for up to 40 linear metres of ducting.

Motor:

- High efficiency EC Technology motors, outer rotor adjustable via 0-10 V signal.
- Single-phase 200-240 V 50/60 Hz and three-phase 380-480 V 50/60 Hz.
- Carried air temperature range: -25 °C to +60 °C.

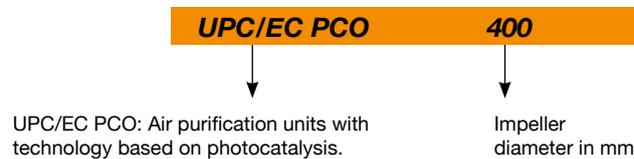
Finish:

- Aluminium profile and prefinished sheet, with 25 mm thick double-wall thermal and acoustic insulation panels..

On request:

- Particulate matter sensor for automatic control SI-PM2,5+VOC or SI-CO2+VOC.

Order code



Characteristics of the filters

STANDARD FILTERS

	EN 779 EN 1822		ISO 16890			
	ISO ePM ₁	ISO ePM _{2.5}	ISO ePM ₁₀	ISO COARSE		
F7	90%	-	>50%	>65%	>85%	-
H14	-	>99.995%	-	-	-	-

Technical characteristics

Model	Recommended working surface* (m ²)	Speed (r/min)	Power (W)	Power supply	Sound pressure level at 50% of max. speed.** dB(A)	Maximum flow rate (m ³ /h)	Approx. weight (kg)
UPC/EC PCO-310	100	2377	450	200-240 V 50/60 Hz 1 Ph	55	800	56
UPC/EC PCO-400	160	1550	460	200-240 V 50/60 Hz 1 Ph	47	1300	98
UPC/EC PCO-500	240	1250	1150	380-480 V 50/60 Hz 3 Ph	51	1950	166

* Recommended surface in an area with a 3 metre high ceiling.

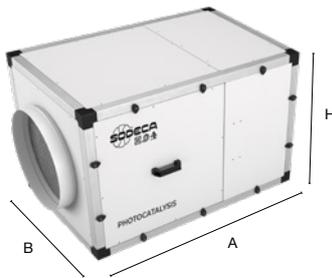
** Irradiated sound pressure level in dB(A) at a distance of 3 m.



Erp. (Energy Related Products)

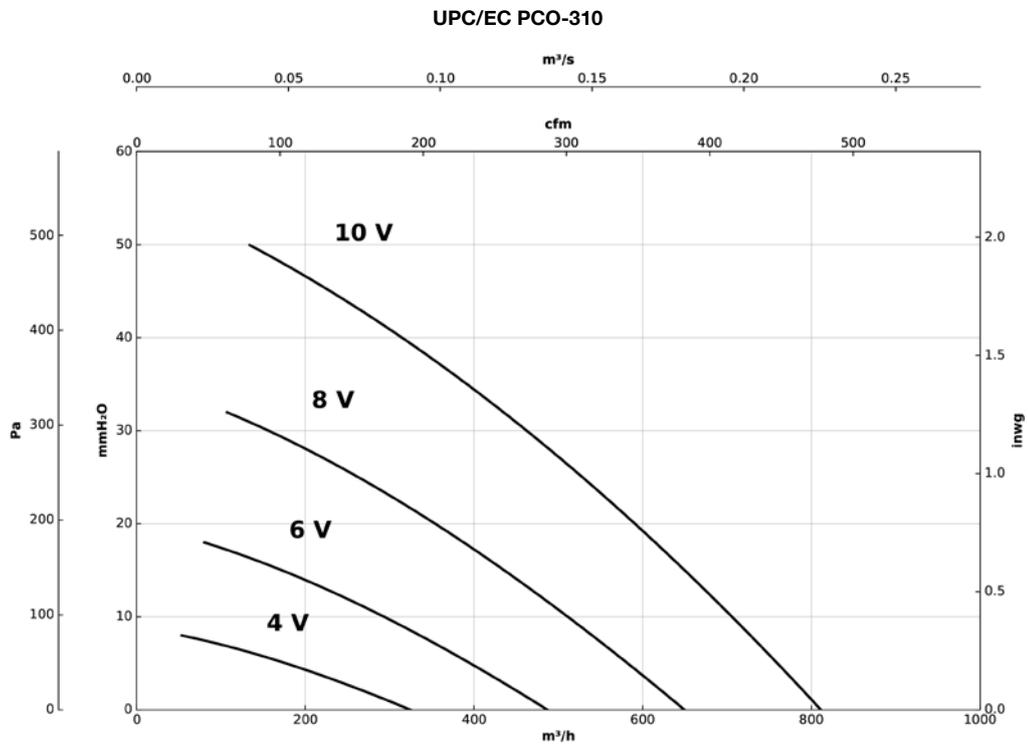
Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme

Dimensions mm

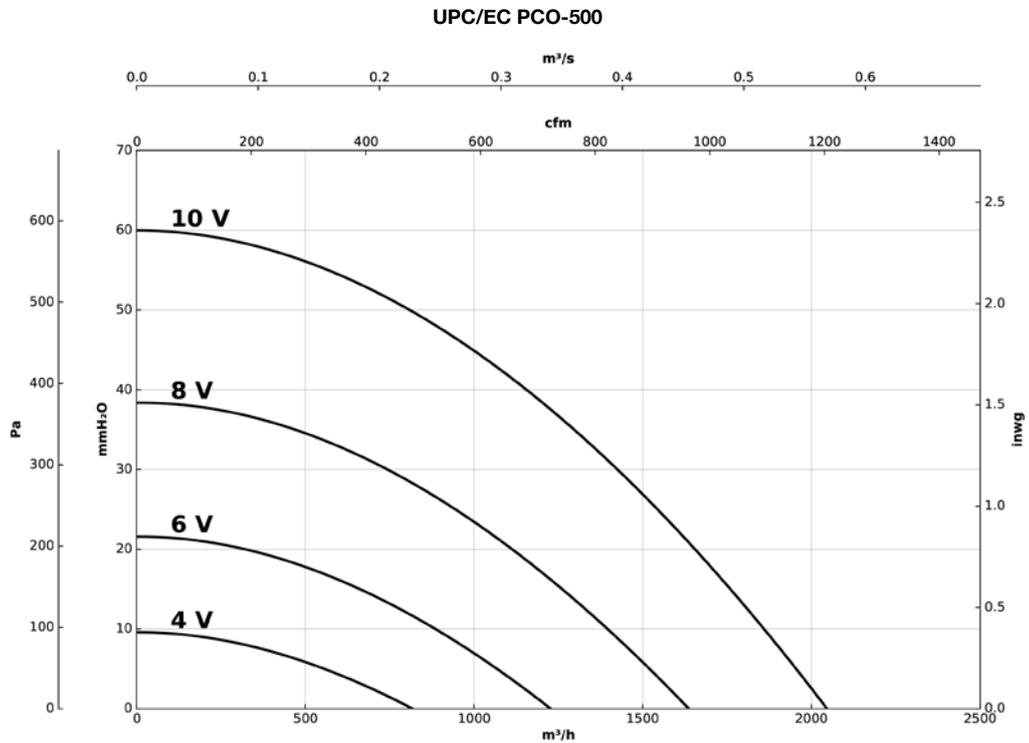
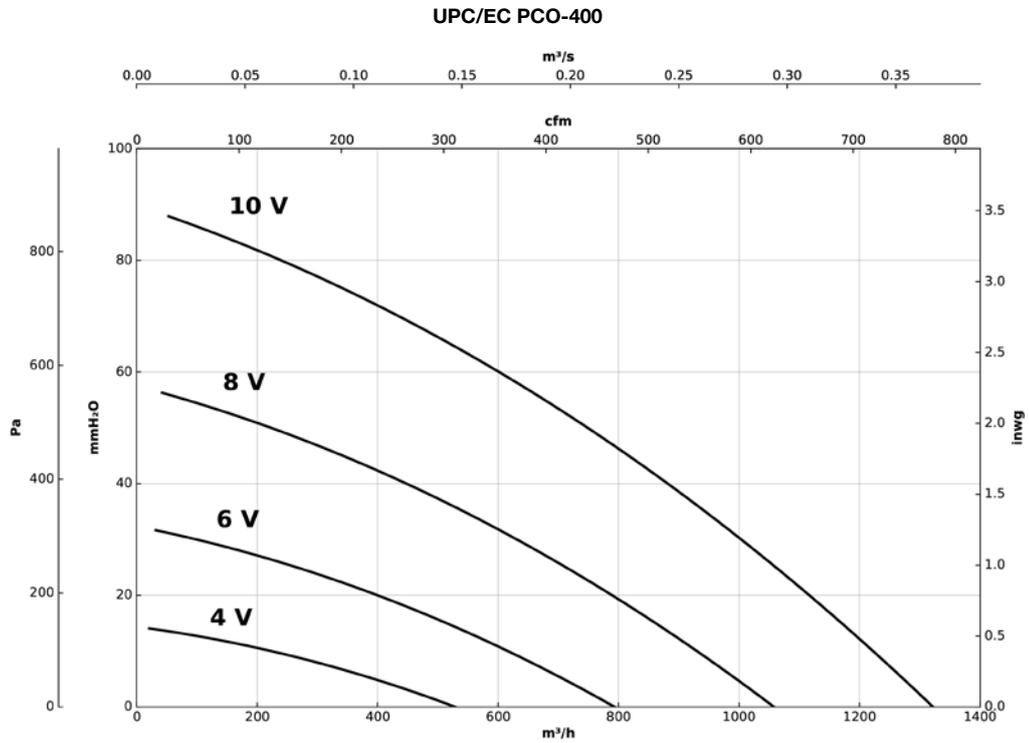


Model	A	B	H
UPC/EC PCO-310	500	500	960
UPC/EC PCO-400	700	700	1210
UPC/EC PCO-500	900	900	1550

Characteristic curves



Characteristic curves



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