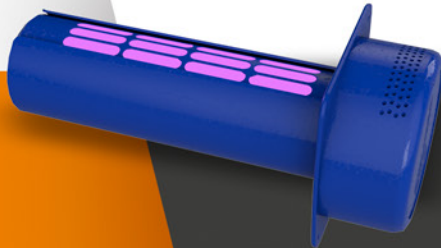


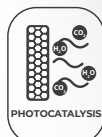


UPM/EC PCO

MOBILE AIR PURIFICATION UNITS WITH PHOTOCATALYSIS TECHNOLOGY



- BUILT-IN PHOTOCATALYST DEVICE
- NEGATIVE IONISATION
- EC TECHNOLOGY MOTOR
- 3 STAGES OF FILTRATION
- AUTOMATIC REGULATION AND CONTROL
- THERMAL AND ACOUSTIC INSULATION
- EASY ACCESS FOR MAINTENANCE



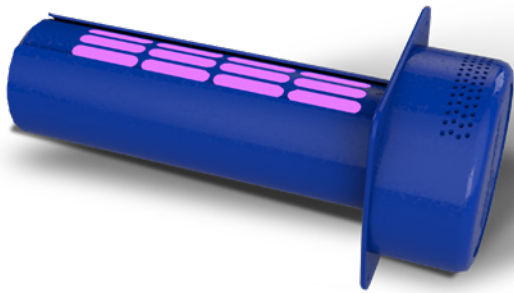
FILTRATION STAGES



UPM/EC PCO

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

ACTIVE DISINFECTING TECHNOLOGY



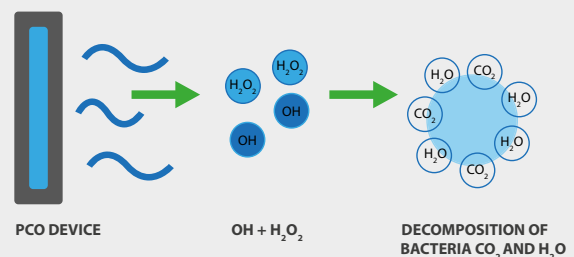
PCO™ technology (Photocatalytic Oxidation) is a powerful tool that is used for purifying air and nearby surfaces by accelerating the natural decomposition of organic matter through photocatalysis.

In addition, our equipment has built-in modules with **positive and negative ionisation technology** to improve their effectiveness against ultrafine dust and odours.

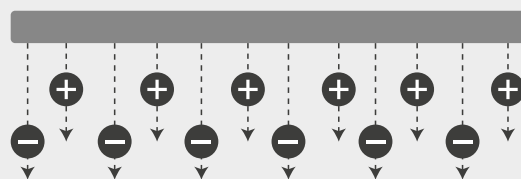
HOW DOES IT WORK?

PCO technology uses a UVC ultraviolet light source to react with a titanium dioxide catalyst in the presence of humidity/water vapour to create small quantities (0.02 PPM) of hydroxyl radicals (OH) and hydrogen peroxide (H_2O_2), which inactivate airborne microorganisms and harmful chemical substances circulating in CO_2 and H_2O .

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



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.

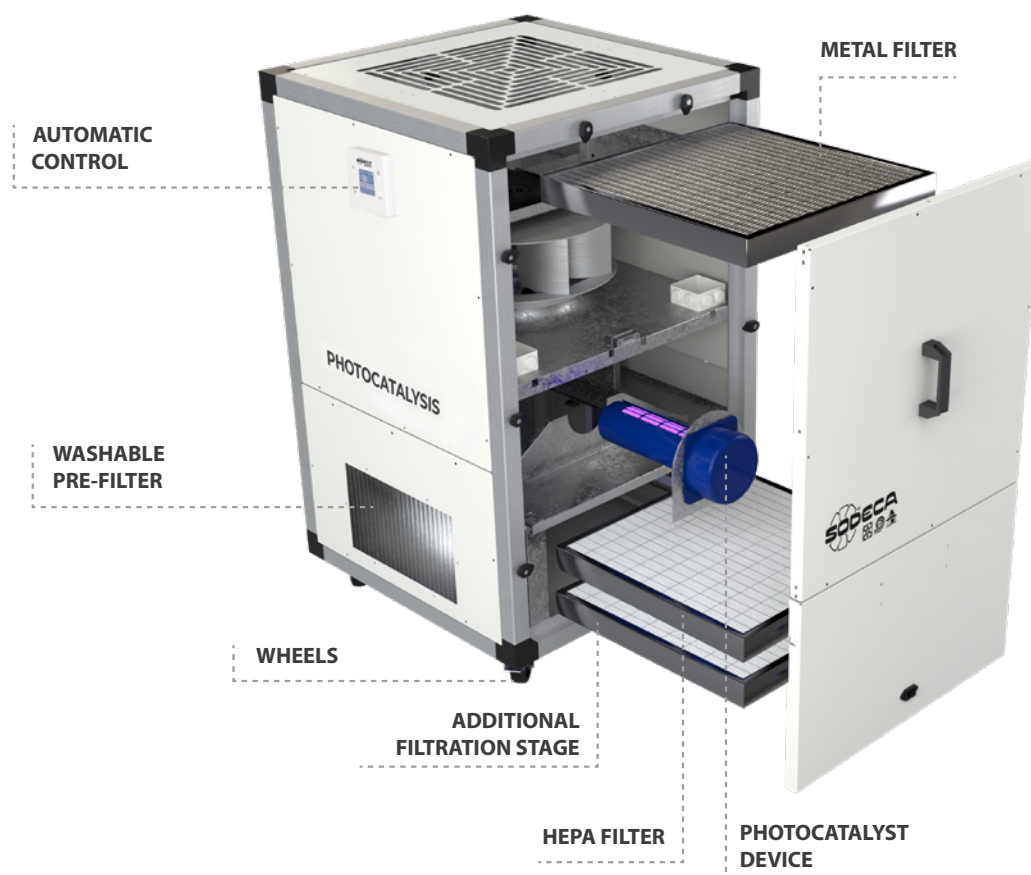
PCO technology is also suitable for use at locations where there is a need to disinfect large material surfaces through the air.

APPLICATIONS

- 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





ENERGY SAVING

Diffusers in the inlet panel prevent the air flow from swirling, which together with a dynamic pressure balance chamber, increase the unit's performance. **The EC Technology type electric motor and the built-in PCO device are both highly efficient units** and are essential for reducing the electrical consumption.



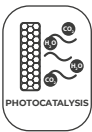
LOW NOISE LEVEL

The 25 mm acoustic casing is made of high-quality insulating material and, together with the EC Technology motor, ensures that this unit operates at low noise levels.



DURABILITY

These units are made from prefinished sheet metal and aluminium sections, 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.



WASHABLE PRE-FILTERS

These filters can be continuously reused requiring minimum maintenance.



AUTOMATIC CONTROL SYSTEM

Allows programming the unit, turning off and on and adjusting the flow.



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 MENGOVIRUS

The effectiveness 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.



UPM/EC PCO



Mobile air purification units with technology based on photocatalysis, designed for disinfecting and purifying indoor air and surfaces in any type of high occupancy premise



Characteristics:

- 40 mm aluminium profile structure.
- Wheels kit.
- Plug&Play system with built-in control.
- Dirty filter monitoring and alarm.
- Covers with a high quality, 25 mm thick acoustic casing made of prefinished sheet.
- Impeller with backward curved blades.
- Washable pre-filter.
- Built-in photocatalyst device with negative ionisation.
- Additional filtration stages: F7 + HEPA H14.
- Inspection cover for maintenance and filter replacement.

Motor:

- High efficiency EC technology motors, 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 steel structure with 25 mm thick thermal and acoustic insulation panels.

On request:

- Particle sensor for automatic monitoring. (PM_{2,5}+VOC or CO₂+VOC).

Order code



UPM/EC PCO: Mobile air purification units with technology based on photocatalysis, designed for disinfecting and purifying indoor air and surfaces in any type of high occupancy premise.

Impeller diameter in mm

Characteristics of the filters

STANDARD FILTERS

	STANDARD FILTERS		ISO 16890			
	EN 779	EN 1822	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 area* (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)
UPM/EC PCO-310	100	2377	450	200-240 V 50/60 Hz 1 Ph	55	800	56
UPM/EC PCO-400	160	1550	460	200-240 V 50/60 Hz 1 Ph	47	1300	98
UPM/EC PCO-500	240	1250	1150	380-480 V 50/60 Hz 3 Ph	51	1950	166

* Recommended surface area with a 3m ceiling height.

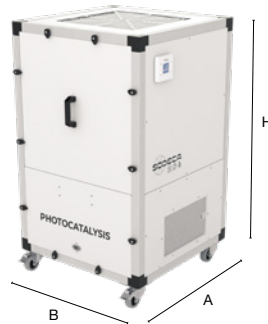
** Irradiated sound pressure level in dB(A) at a distance of 3m.



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
UPM/EC PCO-310	542	500	960
UPM/EC PCO-400	742	700	1210
UPM/EC PCO-500	942	900	1550

**HEADQUARTERS****Sodeca, S.L.U.**

Pol. Ind. La Barricona
Carrer del Metall, 2
E-17500 Ripoll
Girona, SPAIN
Tel. +34 93 852 91 11
Fax +34 93 852 90 42
General sales: comercial@sodeca.com
Export sales: ventilation@sodeca.com

PRODUCTION PLANT**Sodeca, S.L.U.**

Ctra. de Berga, km 0,7
E-08580 Sant Quirze de Besora
Barcelona, SPAIN
Tel. +34 93 852 91 11
Fax +34 93 852 90 42
General sales: comercial@sodeca.com
Export sales: ventilation@sodeca.com

**EUROPE****FINLAND****Sodeca Finland, Oy**

HUITTINEN
Sales and Warehouse
Mr. Kai Yli-Sipilä
Metsälinnankatu 26
FI-32700 Huitinen
Tel. + 358 400 320 125
orders.finland@sodeca.com

HELSINKI
Smoke Control Solutions
Mr. Antti Kontkanen
Vilppulantie 9C
FI-00700 Helsinki
Tel. +358 400 237 434
akontkanen@sodeca.com

HYVINKÄÄ
Industrial Applications
Mr. Jaakko Tomperi
Niinistökatu 12
FI-05800 Hyvinkää
Tel. +358 451 651 333
jtomperi@sodeca.com

ITALIA**Marelli Ventilazione, S.R.L.**

Viale del Lavoro, 28
37036 San Martino B.A.
(VR), ITALY
Tel. +39 045 87 80 140
vendite@sodeca.com

PORTUGAL**Sodeca Portugal, Unip. Lda.**

PORTO
Rua Veloso Salgado 1120/1138
4450-801 Leça de Palmeira
Tel. +351 229 991 100
geral@sodeca.pt

LISBOA
Pq. Emp. da Granja Pav. 29
2625-607 Vialonga
Tel. +351 219 748 491
geral@sodeca.pt

ALGARVE
Rua da Alegria, 33
8200-569 Ferreiras
Tel. +351 289 092 586
geral@sodeca.pt

UNITED KINGDOM**Sodeca Fans UK, Ltd.**

Mr. Mark Newcombe
Tamworth Enterprise Centre
Philip Dix House, Corporation
Street, Tamworth, B79 7DN
UNITED KINGDOM
Tel. +44 (0) 1827 216 109
sales@sodeca.co.uk

AMERICA**CHILE****Sodeca Ventiladores, SpA.**

Sra. Sofia Ormazábal
Santa Bernardita 12.005
(Esquina con Puerta Sur)
Bodegas 24 a 26,
San Bernardo, Santiago, CHILE
Tel. +56 22 840 5582
ventas.chile@sodeca.com

COLOMBIA**Sodeca Latam, S.A.S.**

Sra. Luisa Stella Prieto
Calle 7 No. 13 A-44
Manzana 4 Lote 1, Montana
Mosquera, Cundinamarca
Bogotá, COLOMBIA
Tel. +57 1 756 4213
ventascolombia@sodeca.co

PERU**Sodeca Perú, S.A.C.**

Sr. Jose Luis Jiménez
C/ Mariscal Jose Luis de
Orbegoso 331. Urb. El pino.
15022, San Luis. Lima, PERÚ
Tel. +51 1 326 24 24
Cel. +51 994671594
comercial@sodeca.pe

RUSSIA**Sodeca, L.L.C.**

Mr. Stanislav Alifanov
Severnoye Shosse, 10 room 201
Business Park Plaza Ramstars
140105 Ramenskoye,
Moscow region, RUSSIA
Tel. +7 495 955 90 50
alifanov@sodeca.com



www.sodeca.com

