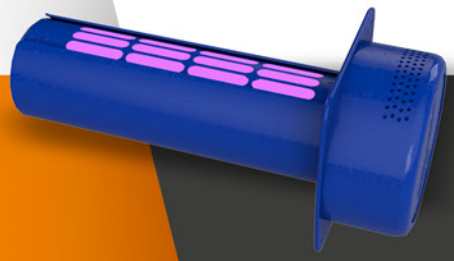
CERTIFIED TECHNOLOGY
100% EFFECTIVE
ACCORDING TO
EN 14476 STANDARD

UFRX/ALS PCO

PURIFICATION AND FILTER UNITS WITH PHOTOCATALYSIS TECHNOLOGY FOR INDOOR AIR AND SURFACES DISINFECTION



- BUILT-IN PHOTOCATALYST DEVICE
- AIR PRE-FILTERING STAGE
- NEGATIVE AND POSITIVE IONISATION
- EASY ACCESS FOR MAINTENANCE

SODECA®

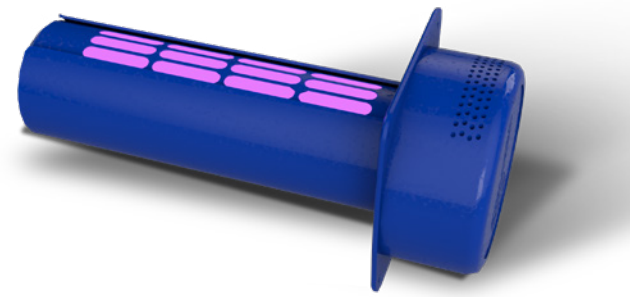
CE ACCORDING ErP

PHOTOCATALYSIS

FILTRATION STAGES F7 + F9

UFRX/ALS PCO

UFRX/ALS 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

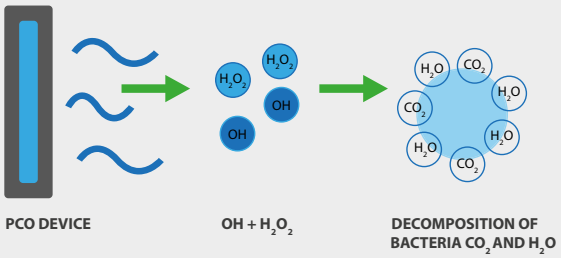
PCO™ technology (Photocatalytic Oxidation) is a powerful tool that is used for purifying air and nearby surfaces, by accelerating the natural decomposition of organic matter through photocatalysis.

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

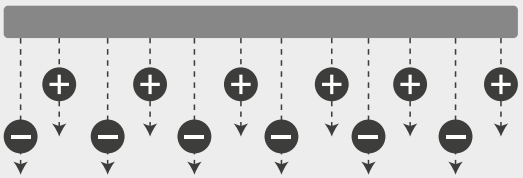
HOW DOES IT WORK?

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 (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



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.

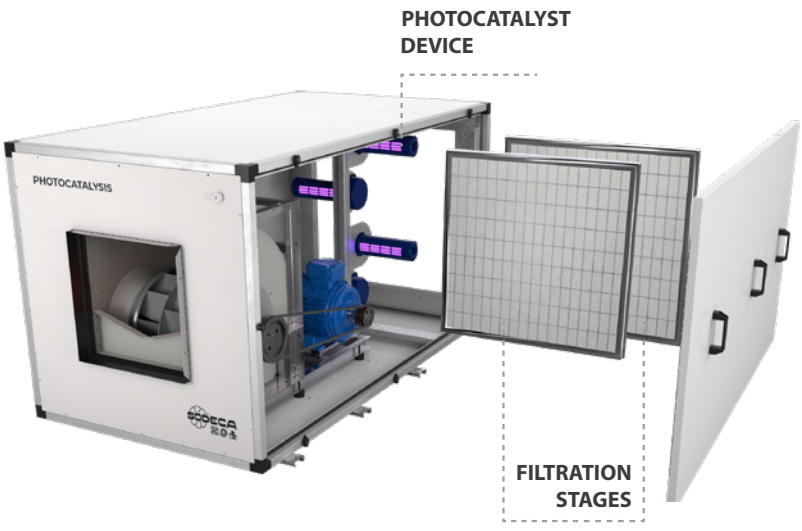
PCO technology is also suitable for use at locations where there is a need to disinfect large material surfaces through the air.

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



LOW NOISE LEVEL
The 25 mm acoustic casing is 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.

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 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.

UFRX/ALS PCO

Air purification units with technology based on photocatalysis

Filtration, disinfection and air purification units with photocatalysis technology, especially designed for disinfecting and cleaning indoor air and nearby surfaces.

Characteristics:
- Aluminium profile structure.
- Covers made from prefinished sheet, with high quality, 25 mm thick acoustic insulation.
- Backward-curved impeller.
- Built-in photocatalyst device with negative and positive ionisation.
- Filtration stages: F7+F9.
- Inspection cover for maintenance and filter replacement.
- Effective for up to 40 linear metres of ducting.
- Belt-driven.
- Cable entry gland.

Motor:
- IE3 efficiency motors.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400 V 50 Hz (up to 4 kW) and 400/690 V 50 Hz (powers higher than 4 kW).
- Carried air temperature range: -20 °C to +60 °C.

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

On request:
- Circular outlet.

Order code

UFRX/ALS PCO	400	4
UFRX/ALS PCO: Air purification units with technology based on photocatalysis.	Impeller diameter in mm	Motor power (CV)

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%	>65-95%	>85%	-
F9	95%	-	>80%	>95%	>95%	-

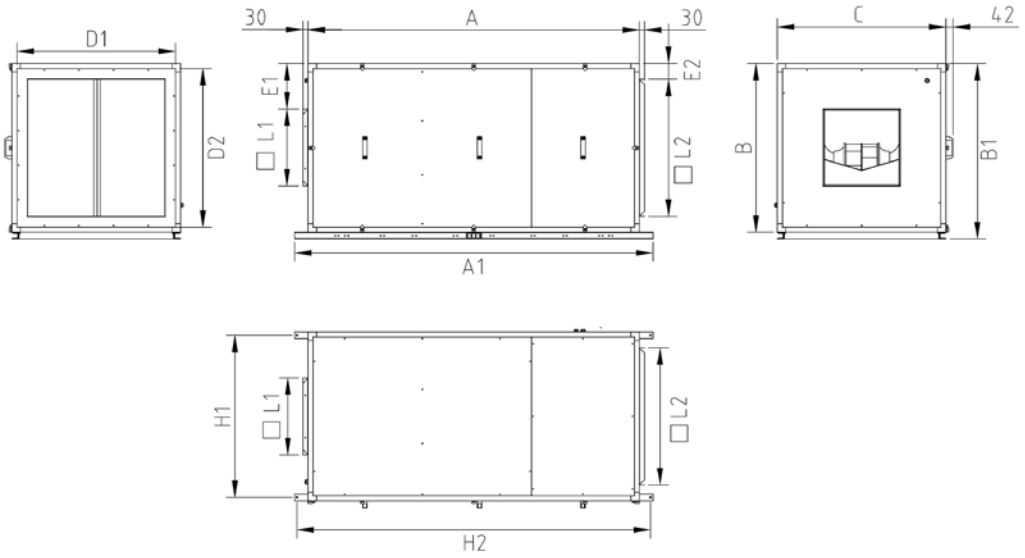
Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum flow rate	Sound pressure level	Air temperature (°C)		Approx. weight	According ErP
	(r/min)	230 V	400 V	690 V	(kW)	(m^3/h)	dB(A)	min.	max.	(kg)	
UFRX/ALS PCO-315-2 IE3	2100	5.34	3.07		1.50	6460	75	-20	+60	87	2018
UFRX/ALS PCO-315-3 IE3	2350	7.70	4.43		2.20	6460	75	-20	+60	92	2018
UFRX/ALS PCO-355-3 IE3	1930	7.93	4.56		2.20	8980	78	-20	+60	118	2018
UFRX/ALS PCO-355-4 IE3	2180	10.70	6.15		3.00	8980	78	-20	+60	124	2018
UFRX/ALS PCO-400-4 IE3	1820	10.70	6.15		3.00	10370	75	-20	+60	135	2018
UFRX/ALS PCO-400-5.5 IE3	2000	13.90	8.00		4.00	10370	75	-20	+60	147	2018
UFRX/ALS PCO-500-5.5 IE3	1370	13.90	8.00		4.00	15030	73	-20	+60	188	2018
UFRX/ALS PCO-500-7.5 IE3	1510		10.30	5.97	5.50	15030	73	-20	+60	214	2018
UFRX/ALS PCO-630-7.5 IE3	1020		11.20	6.49	5.50	23330	72	-20	+60	320	2018
UFRX/ALS PCO-630-10 IE3	1135		14.80	8.58	7.50	23330	72	-20	+60	340	2018

Erp. (Energy Related Products)

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

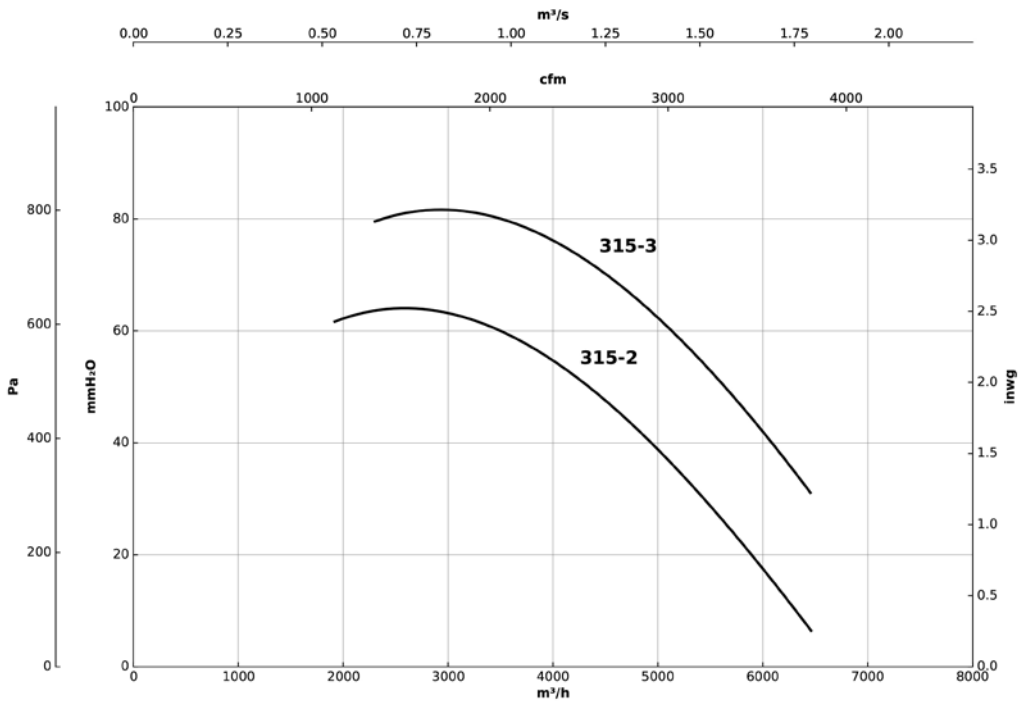
Dimensions mm



MODEL	A	A1	B	B1	C	D1	D2	E1	E2	L1	L2	H1	H2
UFRX/ALS PCO-315	1867	1998	855	895	855	910	795	795	135	405	580	815	1168
UFRX/ALS PCO-355	2005	2125	1000	1040	1000	1040	940	940	210	455	585	960	2095
UFRX/ALS PCO-400	2130	2250	1195	1235	1195	1245	1115	1115	300	510	580	1155	2220
UFRX/ALS PCO-500	2500	2620	1450	1490	1450	1520	1370	1370	175	640	1100	1410	2590
UFRX/ALS PCO-630	2605	2725	1670	1710	1670	1740	1590	1590	140	805	1390	1630	2695

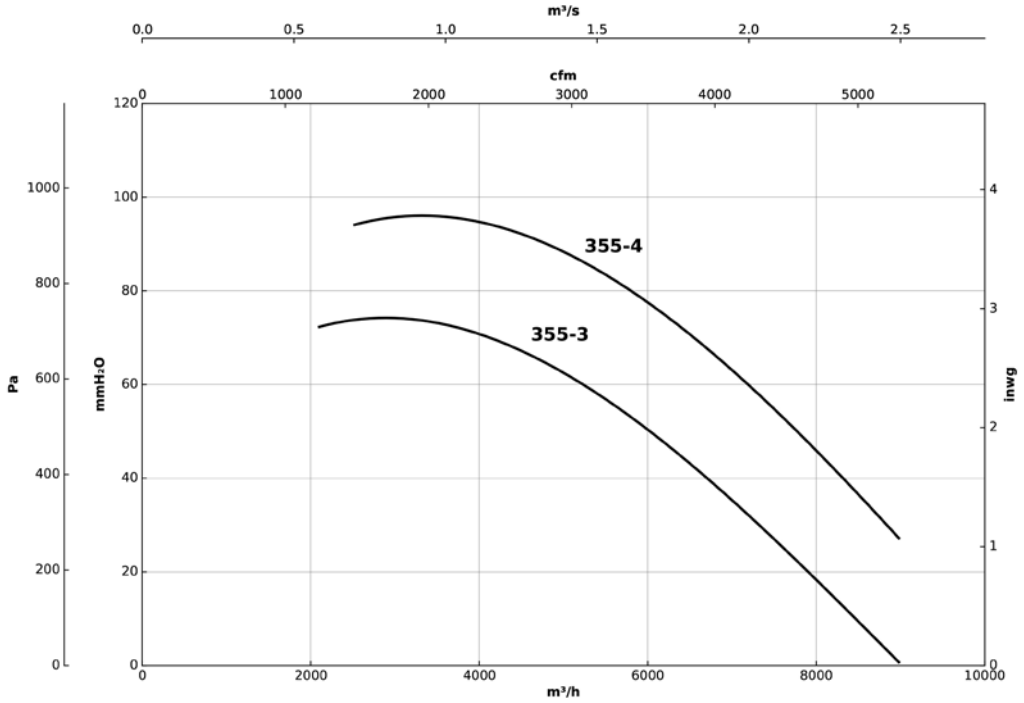
Characteristic curves

UFRX/ALS PCO-315

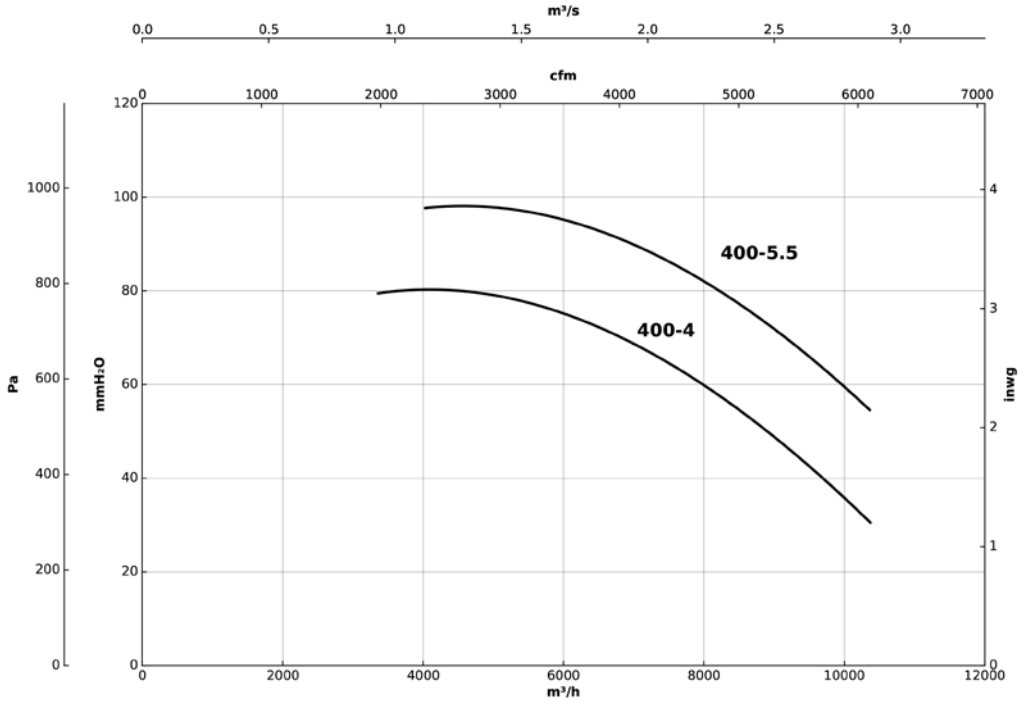


Characteristic curves

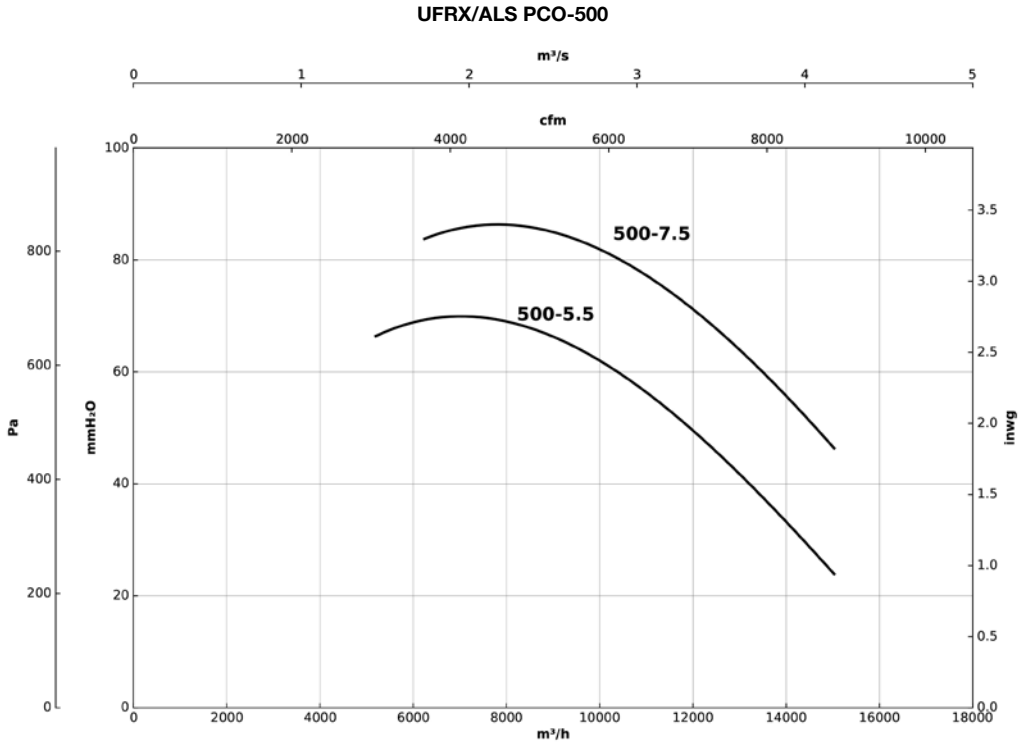
UFRX/ALS PCO-355



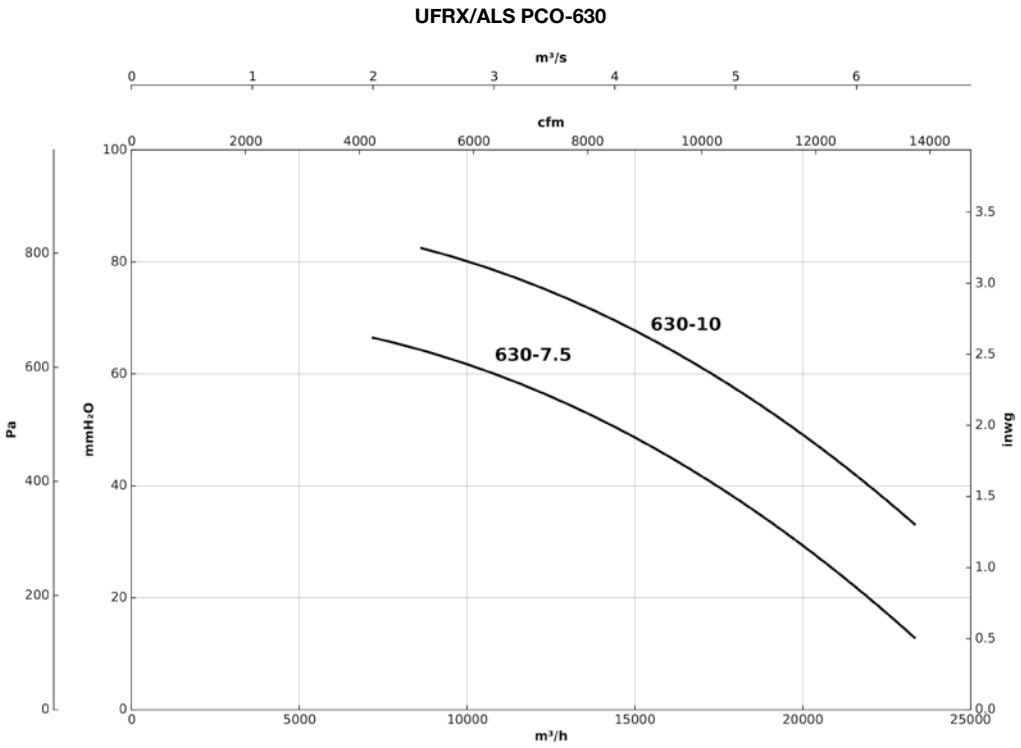
UFRX/ALS PCO-400



Characteristic curves



Characteristic curves



Accessories

INT

MTP

VSD3/A-RFT

AET

VIS

TEJ

Ref. 05/2021

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