CERTIFIED TECHNOLOGY 100% EFFECTIVE ACCORDING TO EN 14476 STANDARD

ECOLOGY UNIT

UFRX/ALS FE

PURIFICATION AND FILTER UNITS WITH ELECROSTATIC TECHNOLOGY FOR INDOOR AIR AND SURFACES DESINFECTION

- ELECTROSTATIC FILTER WITH BUILT-IN THERMAL SENSOR
- ANTI-GREASE TECHNOLOGY
- ACTIVATED CARBON FILTER
- 3 STAGES OF FILTRATION
- EASY ACCESS FOR MAINTEANANCE

SODECA®

ACCORDING ErP

ELECTROSTATIC FILTER

FILTRATION STAGES G2 + FE + FCA

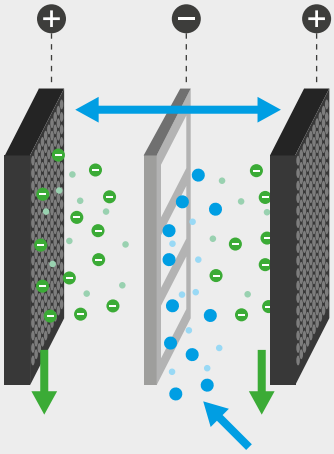
UFRX/ALS FE

UFRX/ALS FE air purification units are designed for cleaning, eliminating odours and purifying air **in high occupancy areas where high levels of grease and oil pollutants may be present.**

ELECTROSTATIC TECHNOLOGY

FE electrostatic filters are suitable for eliminating polluting substances such as particles, bacteria, volatile organic compounds (VOC), etc. The high performance of these filters, along with their excellent ability to capture particles, ensures this equipment operates with a very reduced load loss and therefore their energy consumption is very low in comparison with conventional mechanical filtering systems.

HOW DOES IT WORK?



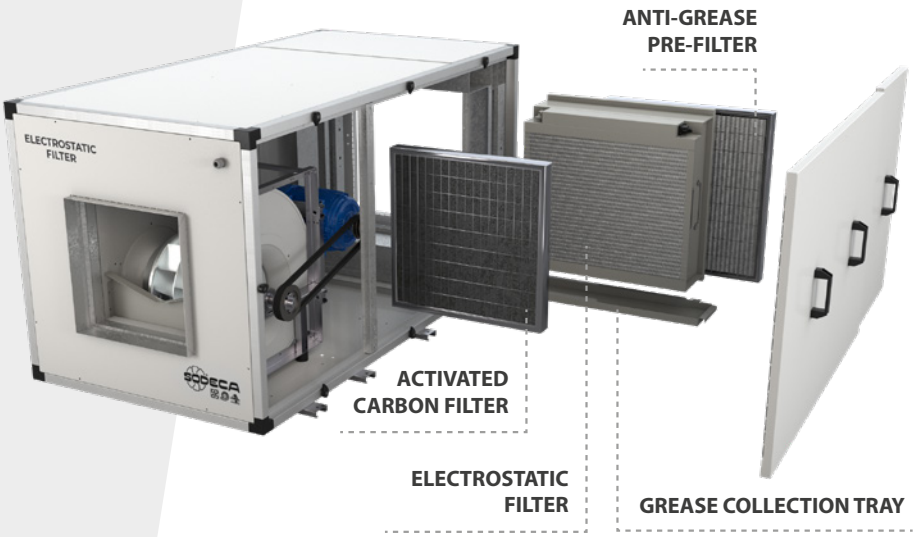
Particulate matter is ionized and becomes attached to oppositely charged collector cells and thereby removed from the outlet air flow.

APPLICATIONS

Air purification by disinfecting using **electrostatic filter FE technology is ideal for environments where pollutants are greasy, oily or have suspended particulate matter, which quickly saturate mechanical or fabric filters**. Electrostatic filters are washable and easy to maintain.

RECOMMENDED FOR

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



EFFICIENCY AGAINST GERMS AND BACTERIA
Acts on all organic contaminants with an efficiency between 98 and 99.9%.

SUSTAINABLE
Particulate matter accumulates on the collector plates. Proper cleaning of the filter guarantees efficiency and increases the service life of the filter as well as of the unit.

ENERGY EFFICIENCY
The electrostatic filter generates a low drop in pressure due to low resistance to the passage of air, which ensures a lower energy consumption. Additionally, these filters are highly efficient at collecting particulate matter and pollutants.

ANTI-GREASE TECHNOLOGY
Designed to operate in adverse conditions where there are vapours/air with a high oil content. Trays are installed below the filter to collect the condensation and grease that is generated during the filtration process.

LOW MAINTENANCE COSTS
The costs associated with replacing the filters are eliminated.
When the filter is saturated, simply wash it with detergent and water to remove the dirt and regenerate the filter. The electronics are completely watertight and don't need to be removed. The time between maintenance tasks is usually quite long.

LOW NOISE LEVEL
The 25 mm acoustic casing is made of high-quality insulating material, ensuring that this unit operates at low noise levels.

ELECTROSTATIC FILTER
Built-in, high efficiency electrostatic filter. Designed to improve indoor air quality, it also incorporates a technology capable of retaining airborne grease particles.

ELIMINATION OF ODOURS
With an activated carbon filter.

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

WASHABLE FILTERS
The pre-filter, as well as the electrostatic filter, are washable and can be continuously reused requiring minimum maintenance.

EASY TO INSTALL AND MAINTAIN
The inside of the unit can be quickly accessed through the inspection panel for cleaning and for filter replacement if required.

UFRX/ALS FE

Air purification units with high efficiency electrostatic filters. Recommended for applications with greasy particulate matter

Air disinfection, purification and filter units with high efficiency electrostatic filters, specifically designed for cleaning and purifying indoor air in locations that contain a high amount of airborne greasy or suspended particulate matter.

Characteristics:
- Aluminium profile structure.
- Covers made from prefinished sheet, with high quality, 25 mm thick acoustic insulation.
- Backward-curved impeller.
- High efficiency (95% ePM_1) electrostatic filter device with built-in thermal sensor.
- Filtration stages:
  - Washable pre-filter.
  - Electrostatic filter.
  - Activated carbon filter.
- Inspection cover for maintenance and filter replacement.
- Grease-collection trays.
- 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 +50 °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 FE 355 3

UFRX/ALS FE: Air purifying units with high efficiency electrostatic filters. For use in applications with greasy particles

Impeller diameter in mm

Motor power (CV)

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

ACTIVATED CARBON FILTER

	EN 779	EN 1822	ISO 16890			
			ISO ePM_1	ISO $ePM_{2.5}$	ISO ePM_{10}	ISO COARSE
FCA	90%	-	-	-	-	60%

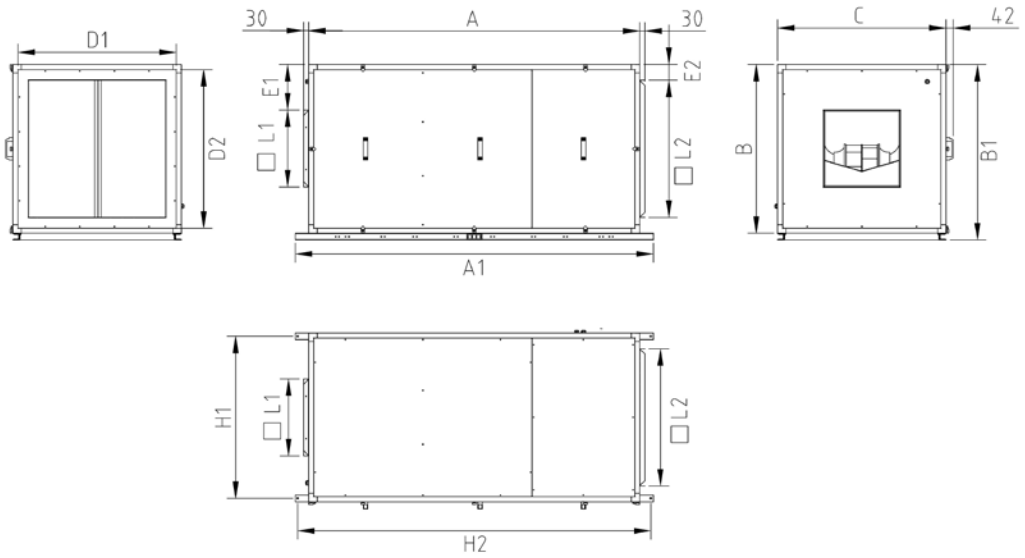
Technical characteristics

Model	Speed	Maximum admissible current (A)			Installed power	Maximum recommended flow	Maximum flow with greasy particulate matter	Maximum flow with dry particulate matter	Sound pressure level	Air temperature (°C)		Approx. weight	According ErP
	(r/min)	230 V	400 V	690 V	(kW)	(m^3/h)	(m^3/h)	(m^3/h)	dB(A)	min.	max.	(kg)	
UFRX/ALS FE-355-2 IE3	1700	5.48	3.15		1.50	1920	3675	4900	72	-20	+50	146	2018
UFRX/ALS FE-355-3 IE3	1930	7.93	4.56		2.20	1920	3675	4900	75	-20	+50	155	2018
UFRX/ALS FE-400-3 IE3	1620	7.93	4.56		2.20	3360	6300	8400	72	-20	+50	190	2018
UFRX/ALS FE-400-4 IE3	1820	10.70	6.15		3.00	3360	6300	8400	75	-20	+50	196	2018
UFRX/ALS FE-450-4 IE3	1510	10.70	6.15		3.00	3600	6990	9320	73	-20	+50	223	2018
UFRX/ALS FE-450-5.5 IE3	1670	13.90	8.00		4.00	3600	6990	9320	75	-20	+50	235	2018
UFRX/ALS FE-500-5.5 IE3	1370	13.90	8.00		4.00	5200	10200	13600	73	-20	+50	276	2018
UFRX/ALS FE-500-7.5 IE3	1510		10.30	5.97	5.50	5200	10200	13600	76	-20	+50	302	2018
UFRX/ALS FE-630-7.5 IE3	1020		11.20	6.49	5.50	7200	14625	19500	69	-20	+50	459	2018
UFRX/ALS FE-630-10 IE3	1135		14.80	8.58	7.50	7200	14625	19500	72	-20	+50	479	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

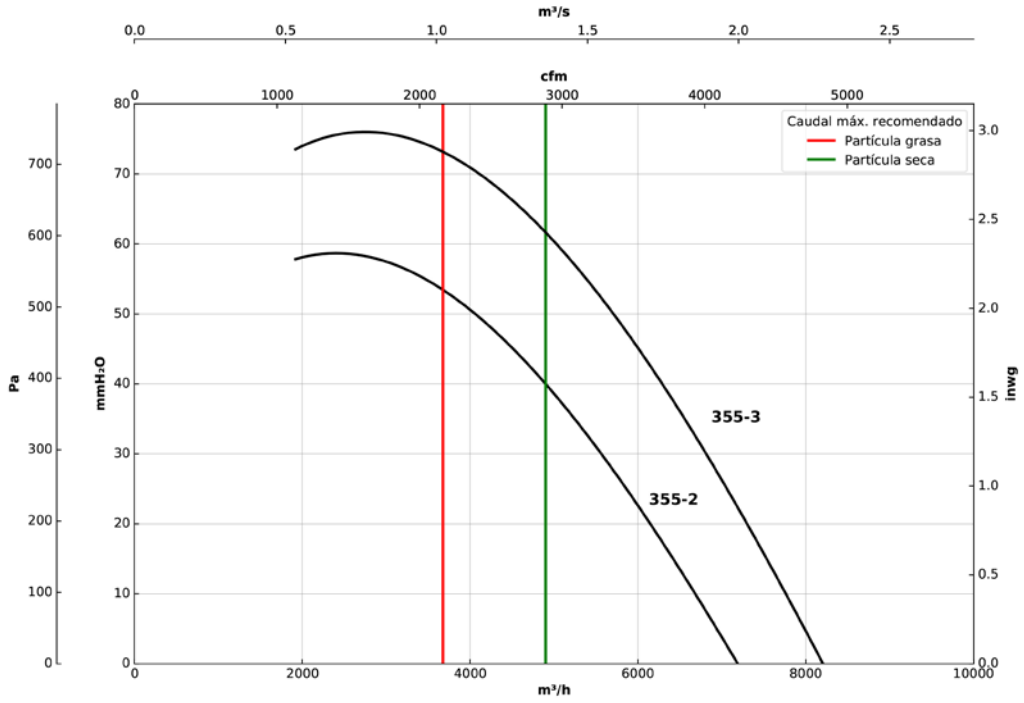


MODEL	A	A1	B	B1	C	D1	D2	E1	E2	L1	L2	H1	H2
UFRX/ALS FE 355	2005	2125	1000	1040	1000	940	940	270	90	455	815	960	2095
UFRX/ALS FE 400	2130	2250	1195	1235	1195	1115	1115	365	130	510	930	1155	2220
UFRX/ALS FE 450	2230	2350	1250	1290	1250	1170	1170	330	170	575	910	1210	2320
UFRX/ALS FE 500	2500	2620	1450	1490	1450	1370	1370	340	170	640	1110	1410	2590
UFRX/ALS FE 630	2605	2725	1670	1710	1670	1590	1590	420	140	805	1395	1630	2695

Characteristic curves

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

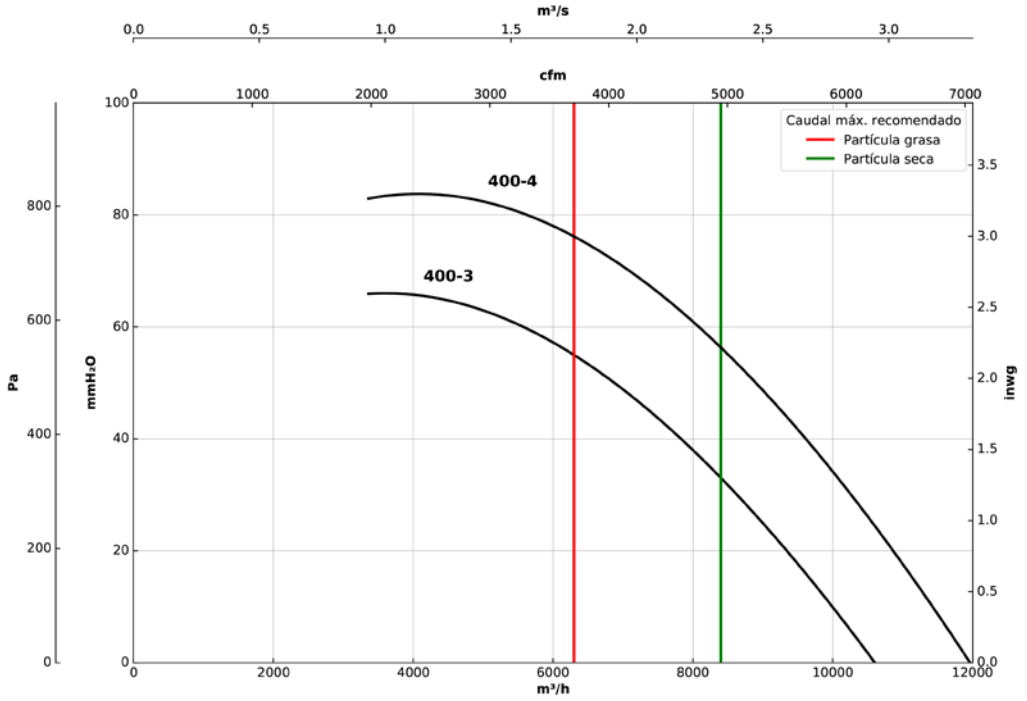
UFRX/ALS FE-355



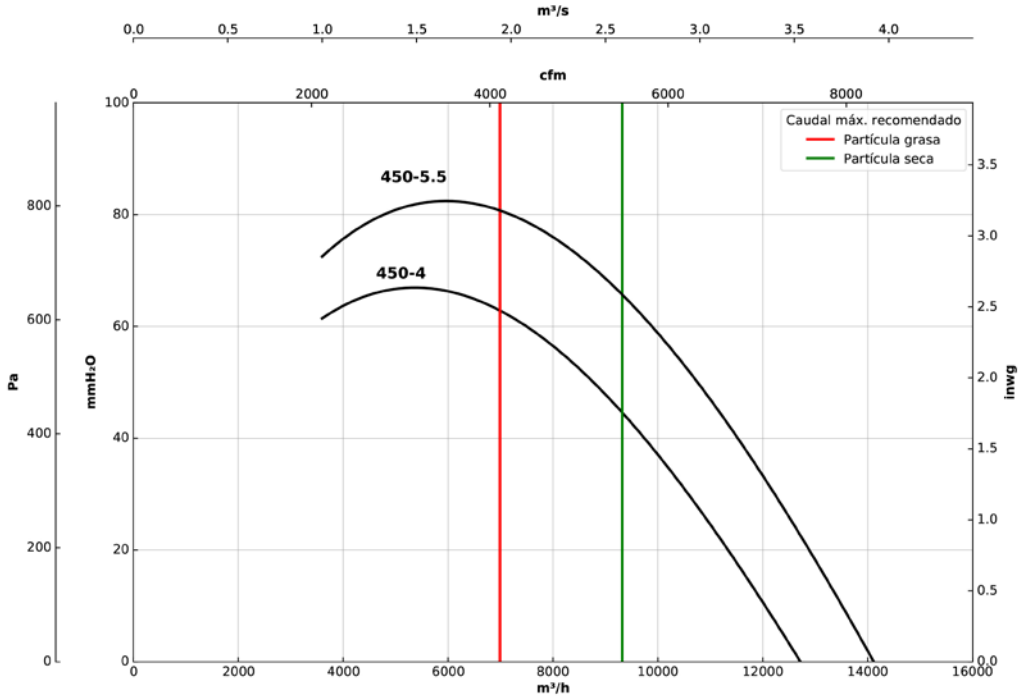
Characteristic curves

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

UFRX/ALS FE-400



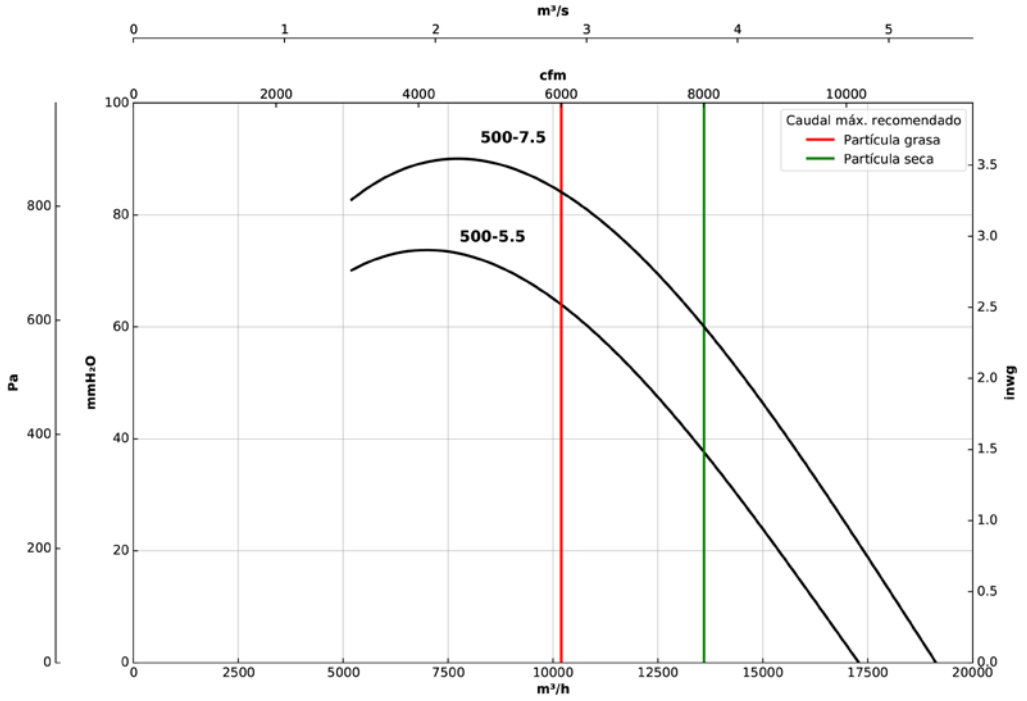
UFRX/ALS FE-450



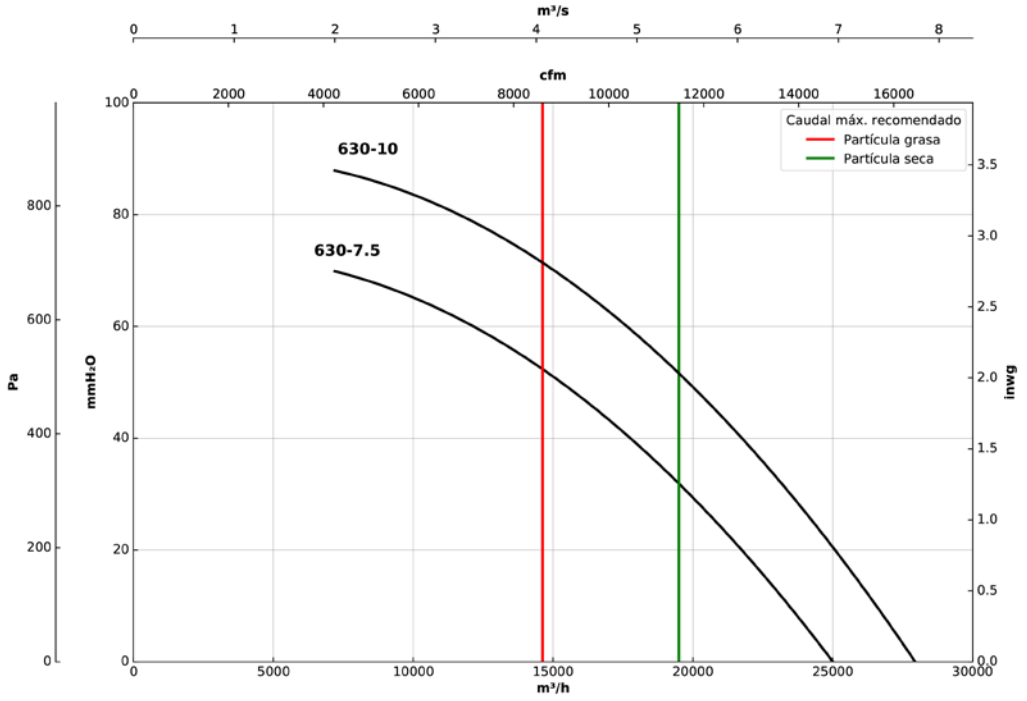
Characteristic curves

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

UFRX/ALS FE-500



UFRX/ALS FE-630



Accessories

INT MTP VSD3/A-RFT AET VIS TEJ MF MCA MFE MPCO

Ref. 10/2021

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