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# ARGOS PRO

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## Air Filtration

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### Cartridge filtration unit



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# Argos Pro

The Argos Pro series is specially designed for the filtration of oil mists (emulsion like neat oil), vapours and fumes emitted by various mechanical processes.

The filter module is a unit specifically designed for the industrial sector, where robustness, reliability and simplicity of operation and maintenance are essential features.

Argos Pro is available in 3 sizes, with flow rates from 3,000 to 15,000 m<sup>3</sup>/h and with different combinations of increasing filtration efficiency, up to an efficiency of 99.95%.

Losma guarantees that each filter unit is individually tested through rigorous control procedures.

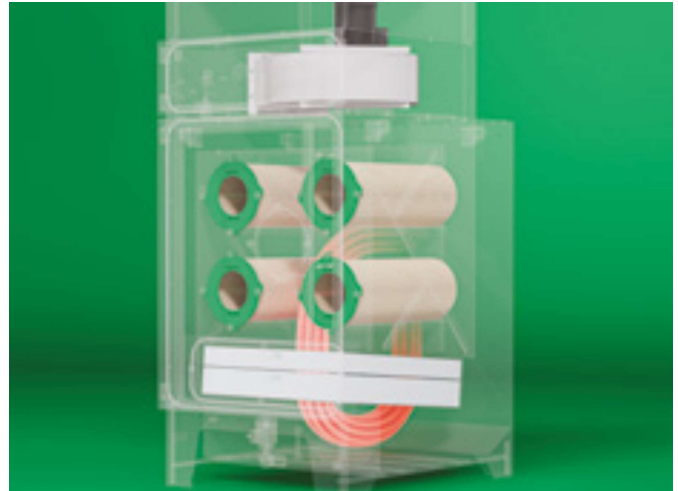
A quality and functional test certificate is issued for each unit.





# Operation

- The air inlet area, which connects the hoses to the filter, consists of a large section which acts as a stilling chamber.
- The air then passes through two separate, fully regenerable filter sections, a PVC labyrinth droplet separator and a G2 metal filter, with 80-90% efficiency in accordance with ISO 16890 – ISO COARSE 30%.
- The next area is the chamber housing the filter elements, pleated cartridges with a high filtering surface area that retain the finest impurities. The cartridges are lined with a highly absorbent coalescing filter that also facilitates homogeneous diffusion of the air flow over the entire cartridge section. This filter has an F5 filtration efficiency of 40-60%, while the cartridges have an F9 filtration efficiency of 95%.





Left: example sequence taken from product operation video

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# Advantages

## **VERSATILITY AND MODULARITY**

The use of increasingly efficient filters and the possibility of using pre and post filtration systems allows for the use of Argos Pro in all modern mechanical processes, from the simplest to the most demanding. The different construction models also make it easier to choose a solution that is always adequate for your needs without wasting energy on oversized systems or, on the contrary, inefficient on inadequately sized systems. For flow rates above 15,000 m<sup>3</sup>/h, modular filtration solutions can be created and customised centralised systems can be designed.

## **FAST AND EASY MAINTENANCE**

Access to the filter section is truly simple and straightforward. Simply open the lockable hinged door for easy access to the filters. These can be removed very easily and replaced quickly. The inner door and the new sloping tank allow for cleaner and more effective maintenance.

## **IDEAL FOR LARGE CENTRALISED SYSTEMS**

The use of high-efficiency centrifugal fans and the large flow rates generated make the Argos Pro series great for use for the extraction and filtration of large machine tools and centralised systems.

1. High drawer
2. Low drawer
3. Cartridge filters
4. Fan

1.



2.



3.



4.



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# Optional

## **1. H13 ABSOLUTE FILTER**

Can obtain a very high level of filtration, 99.95% according to EN 1822. Especially suitable in the presence of micro-mists and fumes. The filter has an easy connection-uncoupling system for effective maintenance.

## **2. CLOGGING INDICATOR**

H13 Absolute filter clogging indicator light.

## **3. LED UP SYSTEM**

A system that combines a digital pressure switch and LED strip in 3 different colours (green, yellow and red) and allows easy and quick display of the clogging status of the filter elements.

## **4. TRANSFER PUMP**

Pump including float for automatic emptying of the drip tray.

## **5. TWISTER**

Helical system that imparts a strong centrifugal motion to the air, facilitating the re-aggregation of micro oil particles.

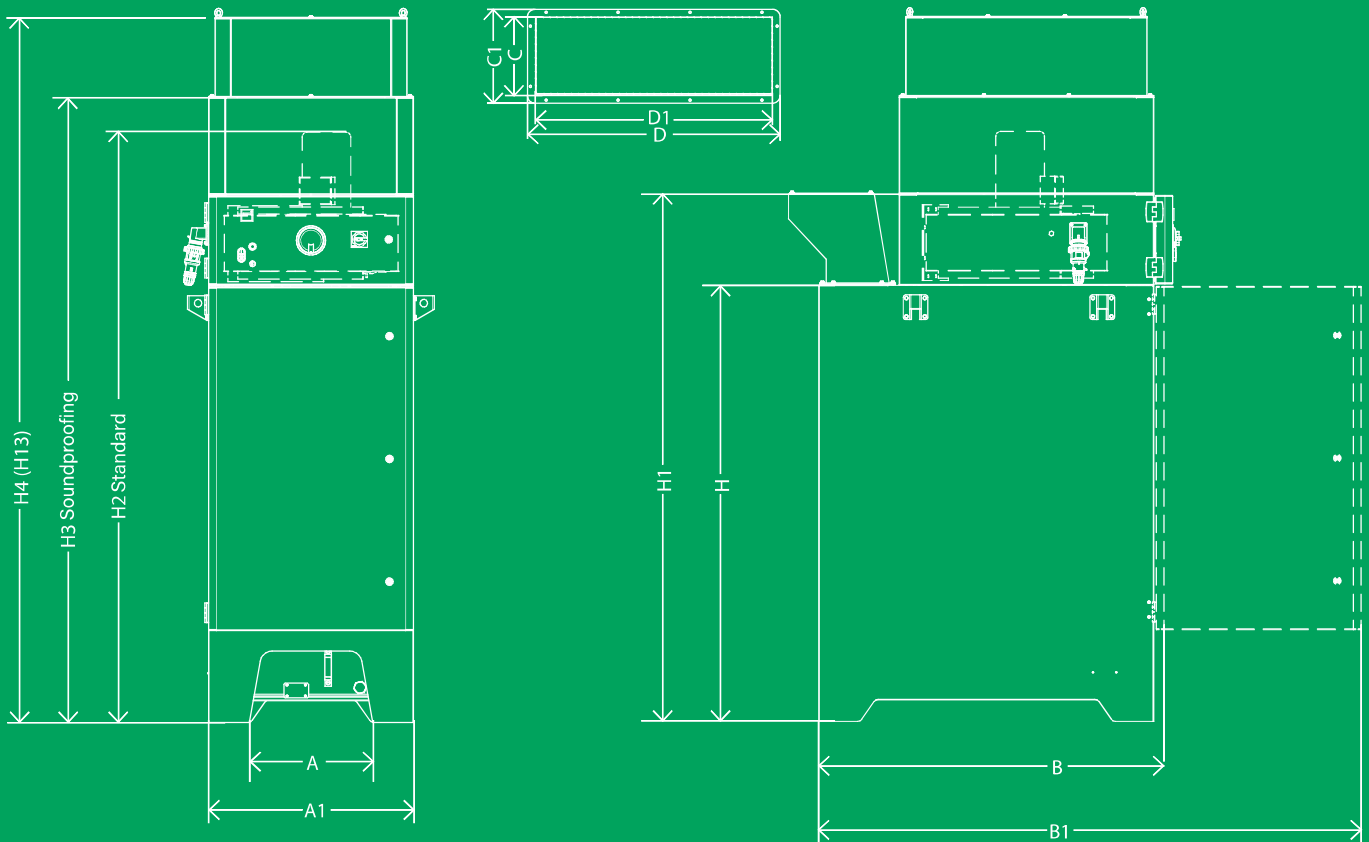
## **6. INVERTER WITH TRANSDUCER**

Motor frequency controller for optimising the air flow rate resulting in energy savings.





# Technical Data



Size	Models	Dimensions (mm)												Weight with H13 (kg)	
		A	B	C	D	H	H1	H2	H3	H4	A1	B1	C1		D1
SMALL	Argos Pro 3000	834	1441	249	754	1777	2150	2348	2550	2870	1010	2210	329	834	620
	Argos Pro 4500	834	1441	249	754	1777	2150	2410	2550	2870	1010	2210	329	834	660
MEDIUM	Argos Pro 6000	1104	1441	249	1024	1777	2150	2414	2550	2870	1280	2480	329	1104	800
	Argos Pro 8000	1104	1441	249	1024	1777	2150	2500	2550	2870	1280	2480	329	1104	835
LARGE	Argos Pro 9000 *	1404	1491	299	1324	2128	2630	2853	3320	3650	1580	2830	379	1404	1000
	Argos Pro 12000 *	1404	1491	299	1324	2128	2630	3000	3320	3650	1580	2830	379	1404	1050
	Argos Pro 15000 *	1404	1491	299	1324	2128	2630	3060	3320	3650	1580	2830	379	1404	1100

Size	Models	Maximum air flow (m <sup>3</sup> /h)	Power (kW)		Cartridges	Noise level 50 Hz (dBa) **	RPM (rpm)		Tank Capacity (l)
			50 Hz	60 Hz			50 Hz	60 Hz	
SMALL	Argos Pro 3000	3000	1,5	1,8	2	<75	2840	3410	57
	Argos Pro 4500	4500	3	3,6	3	<75	2900	3480	57
MEDIUM	Argos Pro 6000	6000	4	4,8	4	<75	2910	3490	76
	Argos Pro 8000	8000	5,5	6,6	5	<75	2980	3470	76
LARGE	Argos Pro 9000 *	9000	7,5	9	6	<80	2980	3470	97
	Argos Pro 12000 *	12000	11	13,2	8	<80	2930	3520	97
	Argos Pro 15000 *	15000	15	18	9	<80	2940	3520	97

\* With external electrical panel.

\*\* With soundproof box and HEPA H13 absolute filter.