

# Argos Pro

Cartridge filtration system



# Argos Pro

The new Argos Pro series filters are designed for the filtration of oil mists (emulsion as well as neat oil), vapors and smokes deriving from a variety of machining processes.

This filtration unit has purposely been conceived for the industrial sector, and its important features lie in its sturdiness, reliability and simplicity in conduction and maintenance.

Available in 3 sizes with flow rates ranging from 3.000 to 15.000 m<sup>3</sup>/h and with increasing filtration efficiency rates to reach 99,97%.

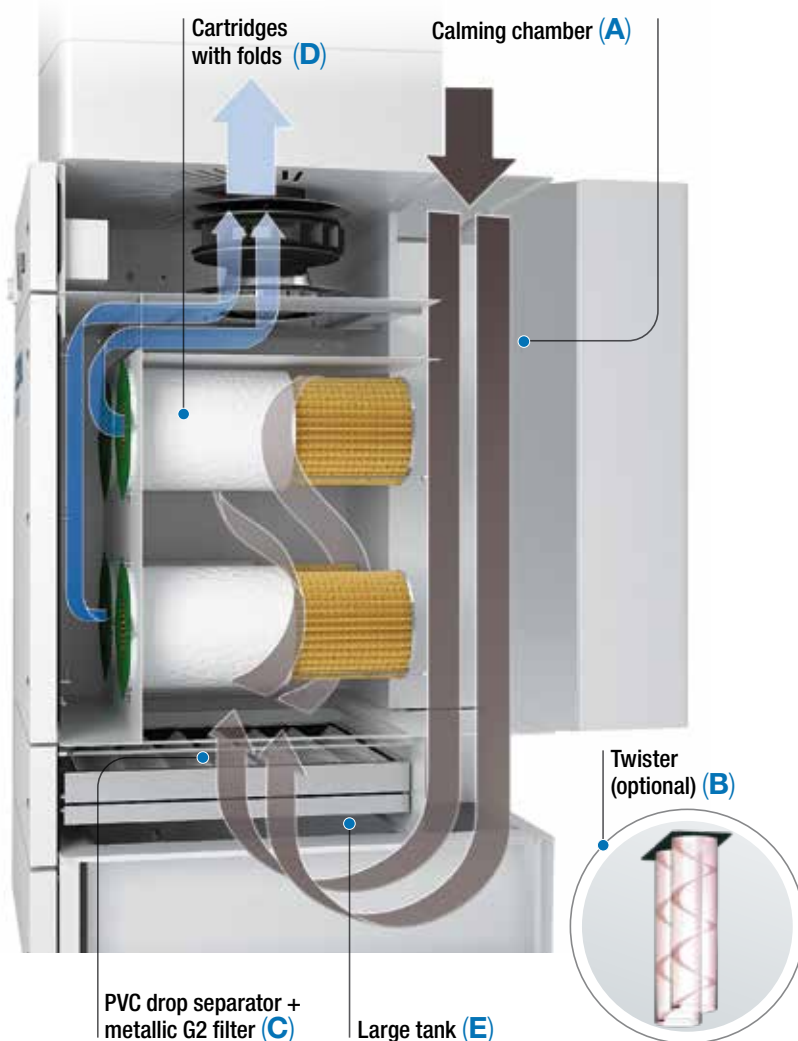


LOSMA grants that every single system is tested through strict control procedures.

Every unit is provided with a qualitative and functional test certificate.



# Working principles



by a highly absorbent, coalescent filter which also allows for an even distribution of the air flow over the entire cartridge. This filter has a filtration efficiency of F5, namely 40-60%, while cartridges have an efficiency of F9 about 95%.

- 4 Argos Pro is standard-equipped with a manometer to monitor the clogging of the filter elements. Upon request it can also be provided with a digital display to visualize the main functions and the exclusive system “LED Up”, which signals the clogging of the filter elements by means of three different colors. Access to the filtration chamber is possible through a hinged door, the horizontal positioning of the cartridges allows quick and easy access and maintenance. Removal of the filters is simple, fast and clean because the two chambers of filtration system are separated by a panel which also serves as a support structure for the filter elements. The recondensed oil mist particles are collected in a large tank, which includes an external visual level and (upon request) a pump to automatically remove the collected liquid (E).

- 1 The air entry section, which connects the piping to the filter, consists in a large area which serves as a calming chamber (A). Inside this area a pre-blasting system “Twister” (B) (optional) can be provided, which further facilitates the aggregation of the finer particles by means of a forced centrifugal effect.
- 2 Subsequently, the air passes through two separate

and reusable filtration stages, a PVC drop separator and a metallic G2 filter (C), with an efficiency of 80-90% following ISO 16890 – ISO COARSE 30%.

- 3 The next area consists of a chamber which houses the filter elements, cartridges with folds (D), with a high filtration surface which withholds the finer impurities. These cartridges are covered

# Plus



## VERSATILITY AND MODULARITY

The use of filters with increasing filtration efficiency rates and the possibility to use pre- and post-filtration stages allow for the implementation of Argos Pro in all modern mechanical machining, from the more simple to heavy duty operations. The 7 different models enable to choose a solution which is always relevant to specific require-

ments without waste in energy caused by oversized systems or, on the contrary, for systems which are not adequately dimensioned.

For flow rates higher than 15.000 m<sup>3</sup>/h, it can be possible to realize modular filtration solutions and by designing custom-built centralized plants.



### FAST AND EASY MAINTENANCE

Access to the filtration section is very easy and quick, without having to unscrew or disassemble anything. Simply unlock and open

the hinged door to access the filters, which can easily be extracted and replaced in a short time.



### GREAT SUCTION POWER

The use of high efficiency centrifugal ventilators and the high flow rates generated enable the Argos Pro series to be implemented for the suction and filtration of large machine tools and for centralized systems.

# Optional

## Absolute filter HEPA H13

To obtain a very high filtration level, 99,97% according to norm EN 1822. Particularly suitable for micro mists and smokes. The filter has an easy attachment-detachment system for a practical maintenance.

## Carbon filter

Activated carbons for removal of odors from previously filtered air.

## Inverter with transductor

Motor frequency regulator for flow rate optimization and a consequent energy saving.

## Transfer pump

Pump including float for automatic emptying of the liquid collecting tank.

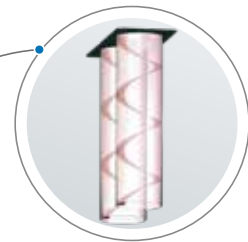


## LED UP

Digital system which allows for an easy and rapid visualization of the filter clogging status, thanks to the combination of a pressure gauge and a LED strip using three different colors (green, yellow, red).

## H13 clogging sensor

Clogging light indicator for absolute filter HEPA H13.



## Twister

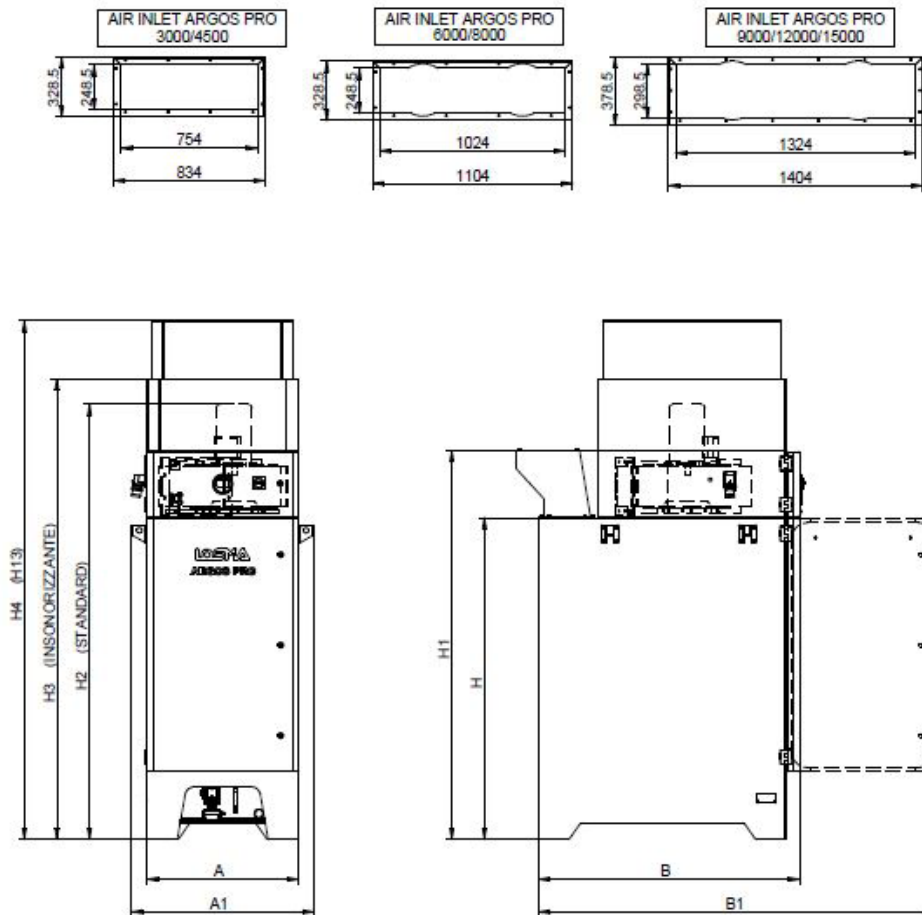
Helicoidal system which forces a strong centrifugal movement of air, facilitating the aggregation of the oil micro particles.



# Applications



# Technical data



SIZE	MODELS	Dimensions (mm)									Weight H13 (Kg)
		A	B	H	H1	H2	H3	H4	A1	B1	
SMALL	Argos Pro 3000	834	1441	1777	2150	2348	2550	2870	1010	2210	620
	Argos Pro 4500	834	1441	1777	2150	2410	2550	2870	1010	2210	660
MEDIUM	Argos Pro 6000	1104	1441	1777	2150	2414	2550	2870	1280	2480	800
	Argos Pro 8000	1104	1441	1777	2150	2500	2550	2870	1280	2480	835
BIG	Argos Pro 9000 (*)	1404	1491	2128	2630	2853	3320	3650	1580	2830	1000
	Argos Pro 12000 (*)	1404	1491	2128	2630	3000	3320	3650	1580	2830	1050
	Argos Pro 15000 (*)	1404	1491	2128	2630	3060	3320	3650	1580	2830	1100

SIZE	MODELS	Max air flow (m <sup>3</sup> /h)	Head (mm H <sub>2</sub> O)	Power (kW)		Cartridge number	Filtration surface (m <sup>2</sup> )	Noise level 50 (Hz) (dBA) (**)	RPM (rpm)		Tank capacity (Litri)
				50 (Hz)/60 (Hz)					50 (Hz)	60 (Hz)	
SMALL	Argos Pro 3000	3000	124	1,5	1,8	2	24	<75	2840	3410	57
	Argos Pro 4500	4500	139	3	3,6	3	36	<75	2900	3480	57
MEDIUM	Argos Pro 6000	6000	100	4	4,8	4	48	<75	2910	3490	76
	Argos Pro 8000	8000	138	5,5	6,6	5	60	<75	2890	3470	76
BIG	Argos Pro 9000 (*)	9000	125	7,5	9	6	72	<80	2890	3470	97
	Argos Pro 12000 (*)	12000	120	11	13,2	8	96	<80	2930	3520	97
	Argos Pro 15000 (*)	15000	270	15	18	9	108	<80	2940	3520	97

\*With external electrical panel. \*\*With soundproofing box.



Health



Savings



Efficiency



Environment



Safety



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