

# Argos

Cartridge filtration system



# Argos

The new Argos 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%.

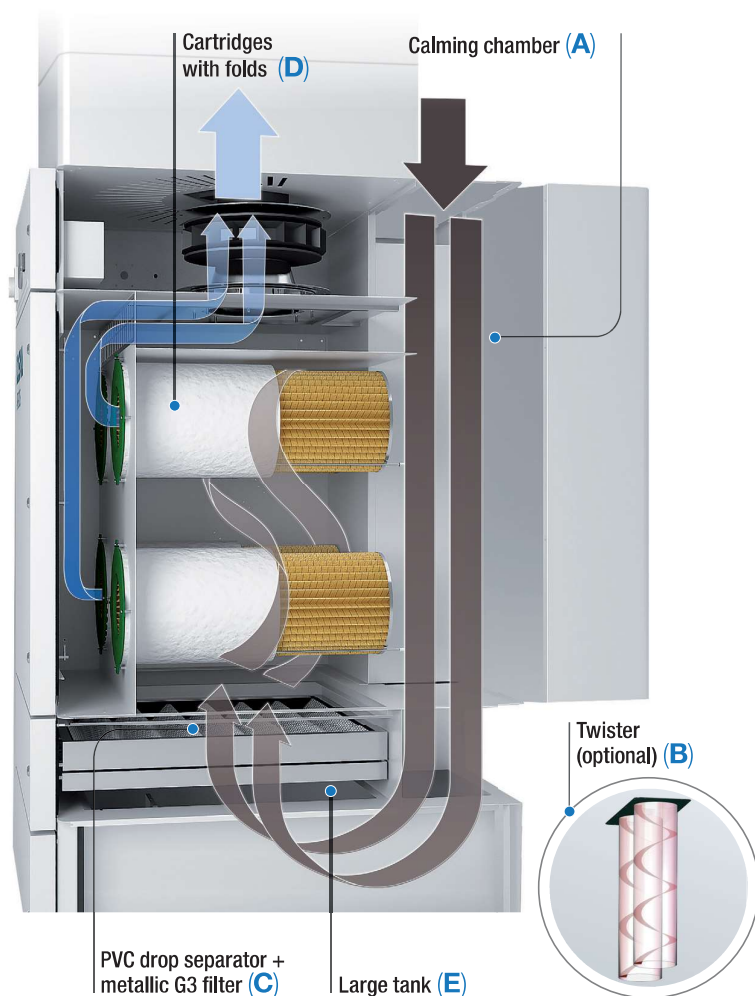


LOSMA grants that every single system is tested through strict control procedures.

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



# Working principles



**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 G3 filter (C), with an efficiency of 80-90% following UNI EN 779.

**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 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 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).

# Plus

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



## 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 series to be implemented for the suction and filtration of large machine tools and for centralized systems.

# Optional

## Absolute filter H13

To obtain a very high filtration level, 99,97% according to norm EN 1822. Particularly suitable for micro mists and smokes.

## Carbon filter

Activated carbons for removal of odors from previously filtered air.

## Transfer pump

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

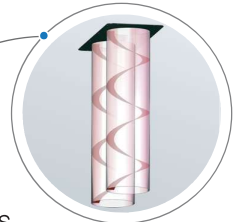


## LED UP

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).

## Twister

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

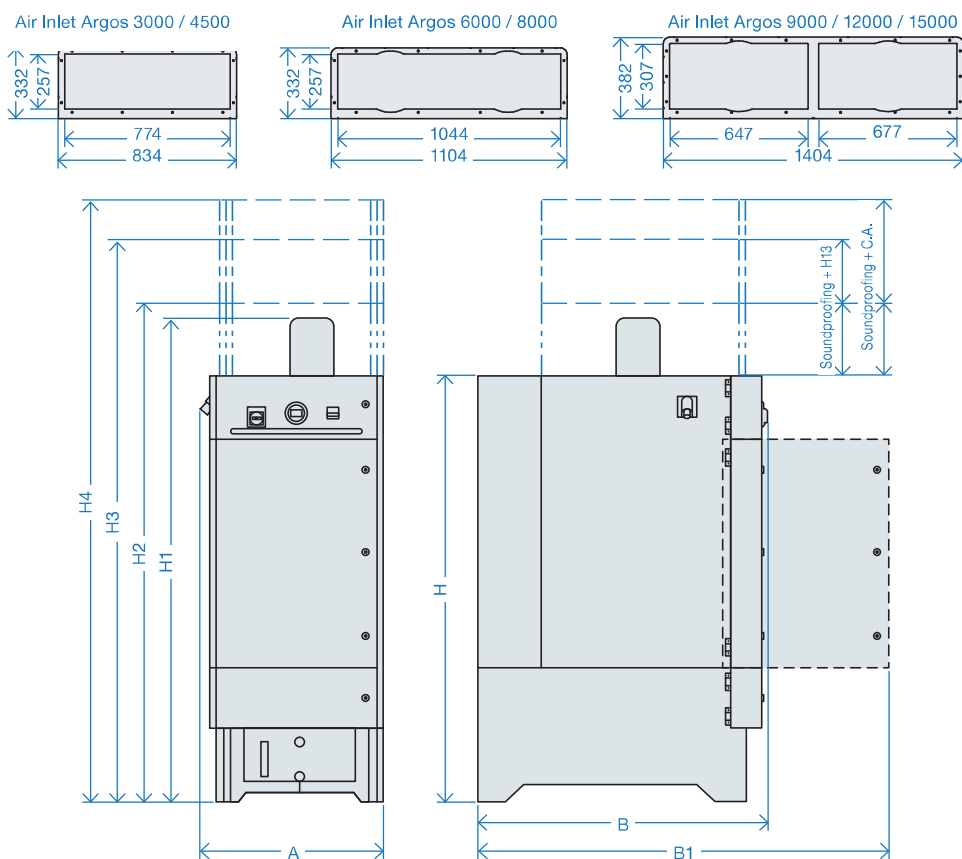


# Installations





# Technical data



MODELS	Dimensions (mm)							Open door dimension (mm) B1	Weight (Kg) Standard supply
	A	B	H	H1	H2	H3	H4		
<b>Argos 3000</b>	1000	1420	2200	2445	2580	2910	3130	2080	385
<b>Argos 4500</b>	1000	1420	2200	2500	2580	2910	3130	2080	400
<b>Argos 6000</b>	1200	1470	2200	2485	2580	2910	3130	2440	525
<b>Argos 8000 (*)</b>	1200	1470	2200	2580	2580	2910	3130	2440	545
<b>Argos 9000 (*)</b>	1500	1520	2700	2930	3350	3680	3900	2700	750
<b>Argos 12000 (*)</b>	1500	1520	2700	3085	3350	3680	3900	2700	780
<b>Argos 15000 (*)</b>	1500	1520	2700	3145	3350	3680	3900	2700	920

MODELS	Max air flow	Head	Power (kW)	Cartridge number	Filtration surface	Noise level	RPM (rpm)		Tank capacity	Kg activated carbons	N. cartridges
	(m³/h)	(mm H <sub>2</sub> O)	50 (Hz)/60 (Hz)		(m²)	(dBA) (**)	50 (Hz)	60 (Hz)	(Liter)	Total	activated carbons
<b>Argos 3000</b>	3000	124	1,5	2	24	<80	2840	3410	180	64	4
<b>Argos 4500</b>	4500	139	3	3	36	<80	2900	3480	180	64	4
<b>Argos 6000</b>	6000	100	4	4	48	<80	2910	3490	275	80	5
<b>Argos 8000 (*)</b>	8000	138	5,5	5	60	<80	2890	3470	275	80	5
<b>Argos 9000 (*)</b>	9000	125	7,5	6	72	<80	2890	3470	385	128	8
<b>Argos 12000 (*)</b>	12000	120	11	7	84	<85	2930	3520	385	128	8
<b>Argos 15000 (*)</b>	15000	270	15 / 18,5	9	108	<85	2940	3520	385	128	8

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