Galileo Plus

Mist Collector

LOSMA ®

GALILEO
Plus

ENG

Galileo Plus

Galileo Plus is a patented centrifugal filter for mist generated from neat oil and emulsions used in machine tools, also suitable in the presence of particulate.

Galileo Plus is available in 5 models with throughputs from 325 to 3.500 m³/h.

Patented in Italy.
Patent pending in Europe, USA, China and Japan.
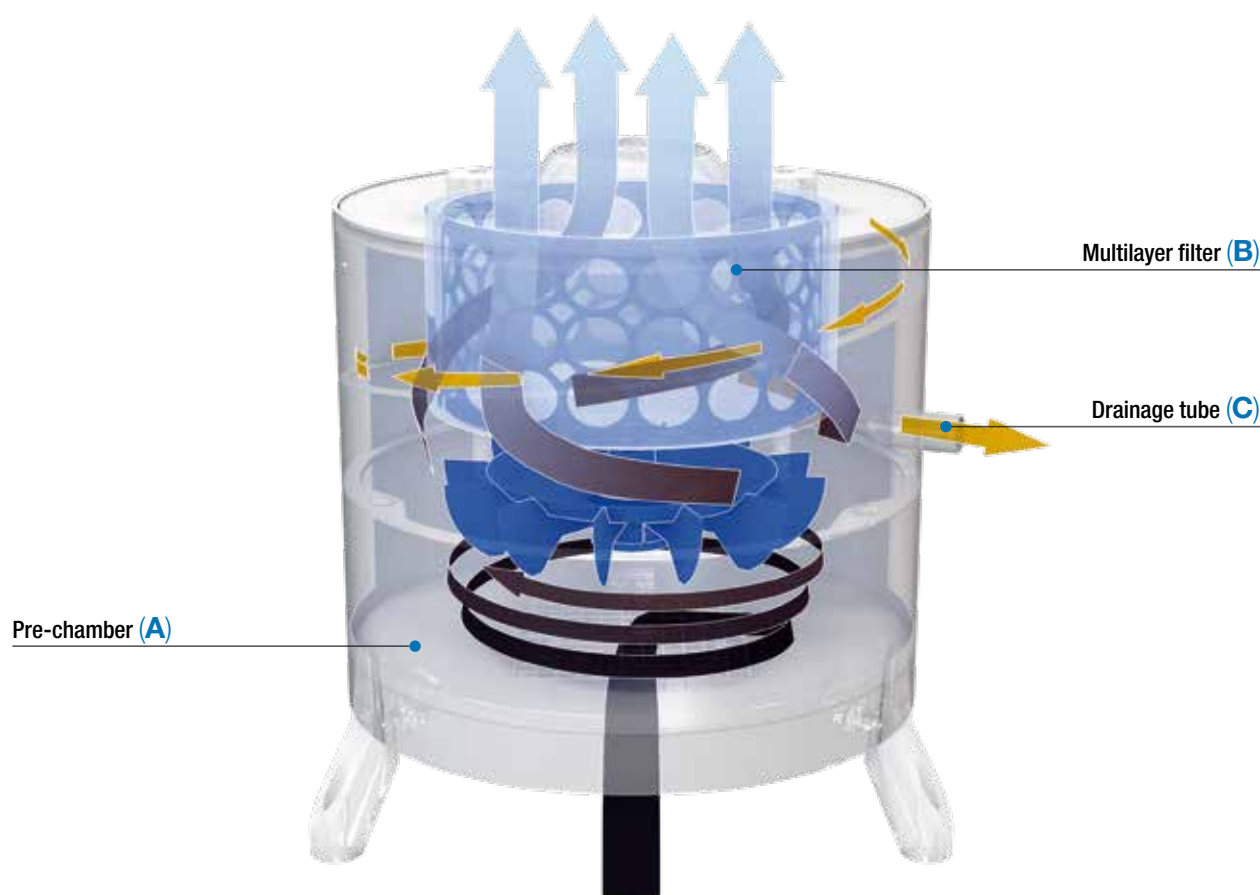
ALL FILTERS ARE
TESTED
BEFORE DELIVERY

LOSMA grants that every single system is tested through strict control procedures.
Every unit is provided with a qualitative and functional test certificate.

GP 250

GP 500

GP 1000

GP 3000

GP 2000

LOSMA Air filters

Working principles

Multilayer filter (**B**)

Drainage tube (**C**)

Pre-chamber (**A**)

1 Polluted air is drawn from machine tool into the lower pre-chamber (**A**) of Galileo Plus.

2 The acceleration effect, due to the centrifugal force generated by a rotating turbine, makes the oil particles bind together and return to liquid state, using the coalescence principle.

3 A special Multilayer filter (**B**) having high filtration efficiency, stops and catches even the smallest pollutant particles, avoiding their dispersion in environment.

4 Thanks to a special drainage tube (**C**) the liquid oil is sent back to the machine tool, to be re-used in working process.

Filter Series

Plus

HIGH FILTRATION LEVEL AND LONG LASTING FILTERS

The combination of the turbine centrifugal action and a high efficiency multilayer filter set guarantees a high filtration level. Filters are positioned after the centrifugal action of the turbine, thus they are exposed to a limited amount of polluting agents, having a small size. This location grants Galileo Plus's filters a longer life than the one of the most common centrifugal or static filters in the market.

REDUCED ELECTRICAL CONSUMPTION

Inspired to Blue Philosophy, Galileo Plus uses energy saving motors with high efficiency and very low power (KW) (see table at next page).

TESTED MATERIAL FROM LOSMA'S LABORATORIES

Galileo Plus internal materials passed compatibility stress tests, carried on with different types of neat oils and emulsions in the market.

LOSMA Air filters

SPECIAL TURBINE

Designed for avoiding dust settlement on its surface, secures no vibrations also in case of big quantities of particulate.

QUICK AND EASY MAINTENANCE

Internal filters can be cleaned or changed simple opening of a cover.

INNOVATIVE DESIGN

Galileo Plus combines the Italian design with cutting-edge technologies for a better working environment.

Optional

Filter clogging X-VIEW sensor

The new X-VIEW sensor is able to detect the progressive clogging state of the Galileo Plus filters, signalling three main operating phases (Led version):

• GREEN: Clean Filters;
• YELLOW: Pre clogging;
• RED: Clogging.

Patent application filed

Also thanks to an exclusive software, it is possible to detect possible ANOMALY conditions:

• Upstream obstructions (piping, grid, etc.);
• Zero flow.

Thanks to an integrated TIMER, X-VIEW sensor allows to know when 15,000 working hours (ex. 5 years/ 8 hours per day) have been achieved, which is the recommended threshold for the check of the filter set.

X-VIEW sensor can be positioned on Galileo Plus or in any other part of the machine tool where the operator is more comfortable reading the data.
Thanks to the Self-learning button, it automatically sets itself to the initial values, making installation extremely easy.
From that time, all flow changes are measured according to the GREEN, YELLOW, RED scale.

X-VIEW works with all accessories (G-Guard Plus, G-Clipper Plus, Horizontal input) and it can be integrated with the CNC of the machine tool (IoT Ready version), providing feedback in real time on the air filter conditions.

The sensor comes in two versions:

X-VIEW Led version

Through a luminous signal it shows:
- the filter clogging status: Clean Filters - Pre-clogging - Clogging.
- Possible upstream obstructions: instantaneous or progressive obstructions of the inlet pipe or suction grid in the machine cabin (e.g. chip or liquid build-up).
- Zero flow alarm: e.g. Galileo Plus turned off, motor not working or turned off, piping disconnected).
- Timer: It indicates the achievement of 15,000 working hours (the threshold recommended for check of filters).
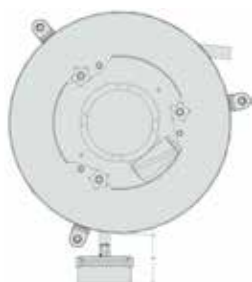
X-VIEW IoT Ready version

- Transmission of data directly to the CNC machine by cable related to:
- The filter clogging status: Cleaned Filters - Pre-intasamento - Clogging.
- Possible upstream obstructions: instantaneous or progressive obstructions of the inlet pipe or suction grid in the machine cabin (e.g. chip or liquid build-up).
- Zero flow alarm: e.g. Galileo Plus turned off, motor not working or turned off, piping disconnected).
- Timer: It indicates the achievement of 15,000 working hours (the threshold recommended for check of filters).
- Remote or CNC control:
- Configuration conditions: possibility to configure the main monitoring parameters in real time.
- Re-setting of the alarms.
- Timer resetting.
- Zero flow.

Technical data

X-VIEW LED

- Voltage: 24V DC
- Signal type: LED display
- Size: Dimensions: A = 110 mm
                           Ø = 115 mm

X-VIEW IoT Ready

- Voltage: 24V DC
- Signal type: Digital
- Size: Dimensions: A = 110 mm
                           Ø = 115 mm

Optional

G-Clipper Plus

Post–filter cartridge for micro-mist, smoke and vapor.
It allows to reach a high filtration level up to 99.97%.

G-Guard

Pre-filtration module useful to optimize air filtration efficiency, in case of high production of oil mist containing dust or swarf chips, also with high pressures. The G-Guard is washable.

Installations

LOSMA Air filters

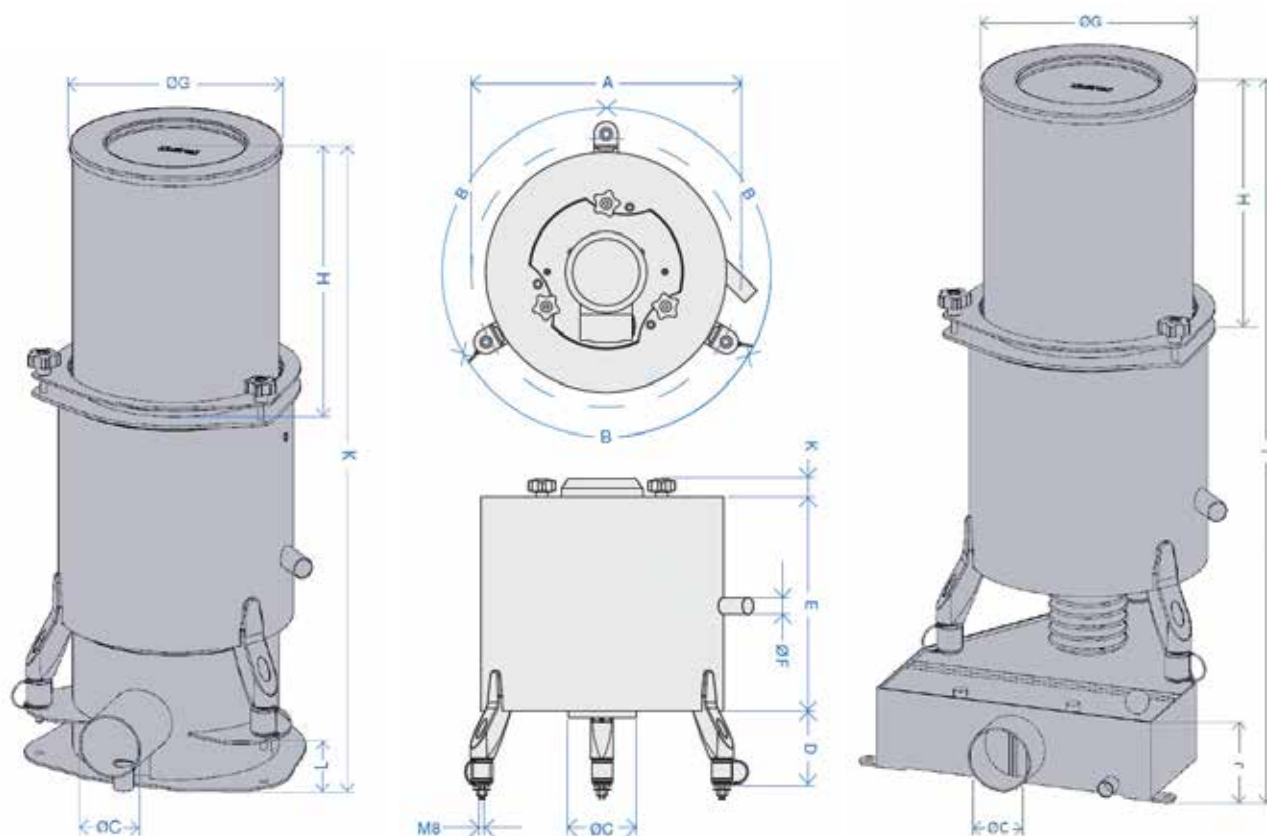# Optional

Horizontal input

Ideal for installation at operator or trolley height.

Installations

Technical data

MODELS	Dimensions (mm)					
	ØA	<) B	ØC	D	E	ØF
GP 250	330	120	78	98	388	25
GP 500	400	120	98	98	418	25
GP 1000	490	120	148	88	508	25
GP 2000	530	120	148	88	558	25
GP 3000	560	120	198	88	658	25

MODELS	Dimensions (mm)					
	ØG	H	I	J	K	L
GP 250	254	314	700	93	789	99
GP 500	315	314	730	113	838	118
GP 1000	380	435	930	163	1083	168
GP 2000	380	435	950	163	1133	168
GP 3000	460	350	1025	218	1178	223

MODELLI	Flow Rate (m³/h)*		Pressure (Pa)		Power		Inlet	Noise level (dBa)		Net Weight	RPM (rpm)	
	50 (Hz)	60 (Hz)	50 (Hz)	60 (Hz)	50 (Hz)	60 (Hz)	(mm)	50 (Hz)	60 (Hz)	(kg)	50 (Hz)	60 (Hz)
GP 250	325	450	320	410	0.09	0.12	80	58	60	10	2900	3450
GP 500	700	850	800	900	0.25	0.29	100	68	69	14	2900	3450
GP 1000	1520	1550	1000	1210	0.55	0.63	150	70	71	29	2800	3450
GP 2000	2160	2230	1100	1310	1.1	1.3	150	72	73	34	2900	3450
GP 3000	3400	3500	1300	1500	1.5	1.75	200	71	75	54	2900	3500

* Free inlet.

LOSMA Air filters

GALILEO
Plus

| Health | Savings | Efficiency | Environment | Safety |

LOSMA®

WORKING CLEAN, BREATHING HEALTHY

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