

The new Generation of oil mist separators

OILMAC



Powerful oil mist separators for the metal processing industry

The new OILMAC filter unit effectively extract oil and emulsion mists that arise when using cooling lubricant from lathing, milling, drilling or metal grinding applications etc.

The oil mist separators come in four output sizes with air volumes from 420 to 3.300 m³/h. The heart of the new OILMAC series is a three-stage filter system that ensures maximum filtration with separation efficiency of above 99.95 per cent. The filtered air can be returned back into the work area to save heat and energy. Additionally, the collected cooling lubricants can be fed back into the circuit of the processing machine through drains integrated into the filter housing. The combination of several filter units connected to a separately installed fan means that the OILMAC series is also available as a central extraction unit for several extraction points.

The housing with registered design, with a pivoting inlet and fan module, allows tool-free access to the interior of the device. This makes filter changes and maintenance quick and easy.



Pivoting fan module

Applications

- » Extraction of oil and emulsion mist, lubricant mist and smoke
- » Installation on the processing machine

Features

- » Filter replacement and maintenance without tools
- » Multi-stage filter system
- » Also available as a filter unit, without fan

Your Benefits

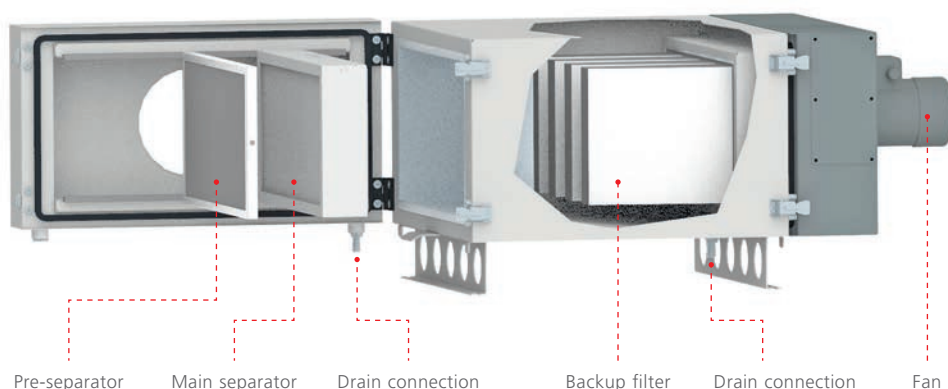
- » High filtration efficiency 99.95 %
- » Easy installation
- » Compact, space-saving design
- » Easy disposal of separated coolant and lubricants

Technical Data

OILMAC		400	800	1600	3000
Max. Airflow	m ³ /h	420	840	1800	3300
Intake-Diameter	mm	150	200	250	300
Voltage	V	230	400	400	400
Motor	kW	0.24	0.55	1.1	2.2
Dimensions (L/W/H)	mm	640 x 650 x 510	1.140 x 685 x 475	1.270 x 685 x 805	1.790 x 650 x 1.265
Weight	kg	50	80	130	220
Sound emission	dB(A)	66	69	71	74
Bestell-Nr.					
With HEPA-filter		56.200	56.201	56.202	56.203
Backup filter made of metal mesh		–	56.211	56.212	56.213
Filter unit without fan		–	56.221	56.222	56.223

All devices include a 5.0m siphon hose

How the 3-stage filter system works



Pre-separator

A wear-free, cleanable metal mesh filter already separates most solid and coarse particles.

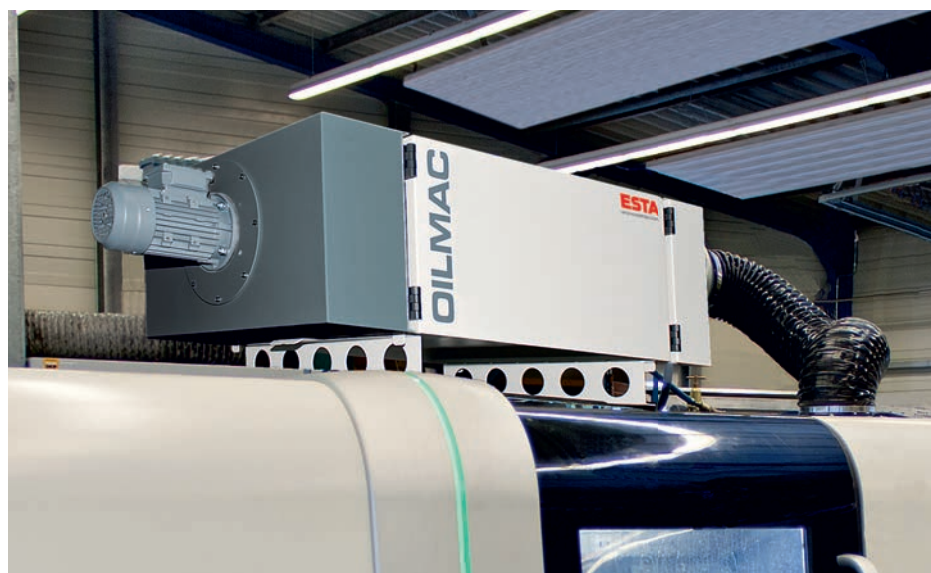
Main separator

A filter cassette F9 acts like a depth filter. Separated aerosols can drain while the separated particles remain in the filter material. The draining of aerosols is supported by gravitational force and two siphon connections.

Backup filter

Remaining aerosols are retained by a HEPA H13 filter with a filtration efficiency of 99.95% allowing for recirculation of air.

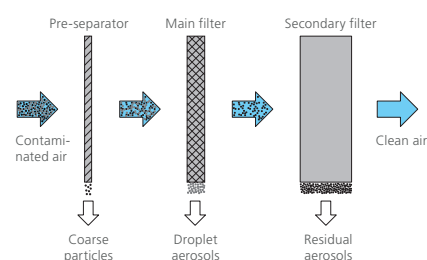
Alternatively, a knitted mesh filter can be used as backup filter.



OILMAC 800 on a universal lathe

Extracting oil and emulsion mist not only contributes to protecting employees' health. The separations help minimize coolant deposits inside machine enclosures and reduce machine cleaning and maintenance costs.

Combined Filtration Process:



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ESTA Extraction Technology

For over 45 years ESTA extraction technology has offered solutions for a multitude of industries and trades. From stand-alone units for the most diverse applications to complex extraction systems – we consistently ensure a clean working environment. ESTA equipment not only protects your high-tech machinery investments but also creates the prerequisites for highly efficient and quality oriented work results.

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