

Aerosol separation on machine tools

In machining and forming processes, cooling lubricants are used from which oil mist is formed under high pressure and heat development. This must be extracted from the machine's work area and cleaned in order to comply with legally defined specifications for maximum workplace concentration (MAK) and workplace limit values (AGW).

LGAir Basic /Advanced O600/E1200

The LGAir is an aerosol separator that meets the challenges of the metal cutting machine tool and provides the necessary clean air to the employees. Filtration is divided into pre-separation, main filtration, fine filtration and HEPA filtration. The specially matched filter stages can be used for oil and emulsion applications. As is usual with the already known LGA series, the unit is mounted on the roof of the machine tool / machining center or on a frame next to it.

Separated oils or emulsions are discharged via the proven cooling lubricant recirculation systems. The LGAir is designed to be service-friendly, so that elements can be changed without tools during maintenance work. The LGAir will be available as a BASIC and ADVANCE variant.



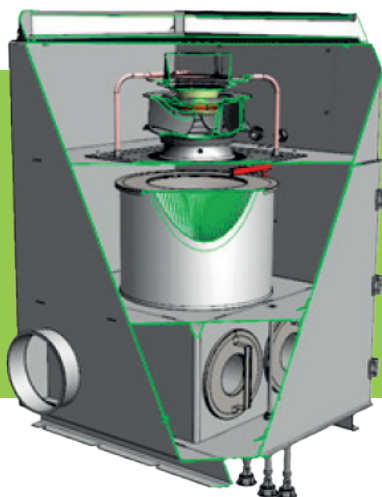
LGAir expands the LGA-Serie

Features

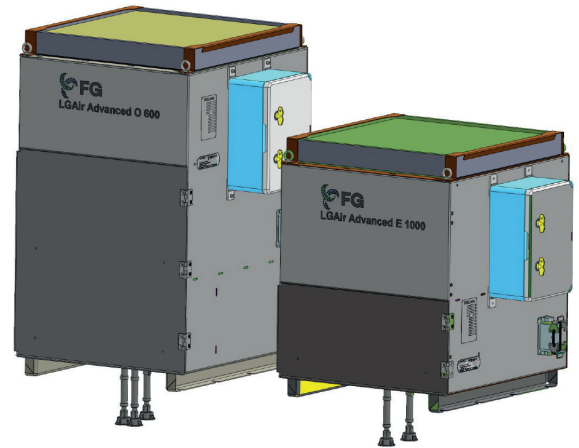
- For raw gas loading up to 1,000 mg/m³
- Achievable raw gas concentration $\leq 2 \text{ mg/m}^3$ (without HEPA stage)
- Modular system adaptable for emulsion or oil application
- Optional filter stages available
- Tool-free disassembly / assembly
- Elements laterally removable
- Negative pressure control optional (Advanced)!
- Low installation height (min. 30 cm above floor)
- Service-friendly

Short description LGAir Basic O600/E1200

- Operating volume flow
Emulsion [Bm³/h]: 900 - 1200
Oil [Bm³/h]: 400 - 600
- Separation efficiency for oil, emulsion application (without HEPA stage)
 - Total separation efficiency of ePM1 85 % @ $\leq 1 \text{ mg/m}^3$ (DIN ISO 16890)
 - Total separation efficiency > 99 %
- HEPA Filter class H13
 - optionally available
- Suitable for high raw gas concentrations up to 1,000 mg/m³
- Centrifugal fan with EC motor



FG LGAir
Picture source: Filtration Group Industrial



Nomenclature

LGAir	Basic / Advanced	O600
LGAir		E1200
		Operating volume flow Oil/emulsion mist separator
	Basic - without regulation, without visual indicators Advanced - with control and optical indicators	

Technical data

- Media temperature: + 10 °C to + 80 °C
- Operating temperature: +10 °C to + 50 °C
- Filter stage 1: main separator element (2x)
- Filter stage 2: fine filter element (1x)
- Filter stage 3 (optional for emulsion): H13 Hepa filter
- Motor power: 1,2 kW
- Supply voltage: 3 AC 400 V/PE +/- 10 %, 50-60 Hz
- Motor speed: bis 4.000 U/min
- Rated current consumption: 1,8 A
- Back-up fuse: 16 A
- Motor protection class: IP 55
- Sound level: 73 dB(A)
- Raw gas connection: DN 200
- Weight: approx. 120 kg
- Coolant lubricant return hoses: 3 pcs. - 15 x 2 mm PVC transparent (5 m each)
- Housing surface finish: EPS coating according to RAL 7035 (standard)

Your Contact

FILCOM GmbH
Schönbuchstr. 1
D-73760 Ostfildern

Phone: +49 (0) 711-4413322-0
Fax: +49 (0) 711-4413322-22
Mail: info@filcom.de

www.filcom.de

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