

Oil mist collector unit LGA 600

Nominal volume flow 600 m³/h

1. Features

High performance oil mist collector unit for separation of coolant from tooling machine exhaust air

- Compact design
- High oil mist load capacity
- Excellent retention rates

Characteristics

- Maintenance-friendly design
- Equipped with high-efficient coalescer elements
- Optimized service life
- Alternatively available with frequency controlled motor
- Modular design for direct installation of main components into tooling machines.

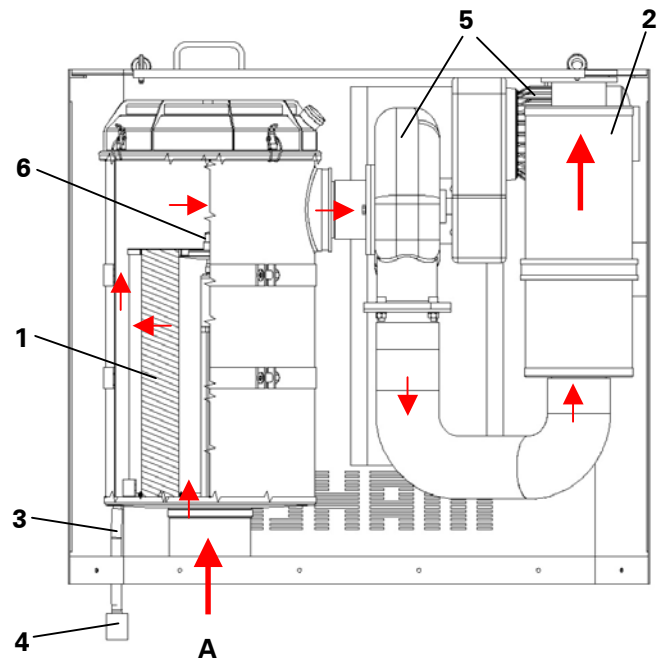
World-wide sales



2. Principle of operation

The oil mist is sucked away from the tooling area **(A)** of the machine tool. The oil mist passes the coalescer element **(1)** from the inside to the outside. The oil precipitates at the fibre fleece when the volume flow passes the element. Smallest oil droplets coagulate to bigger drops. Because of gravitation these bigger drops will flow downwards to the bottom of the filter. Here, the collected oil will be lead back to the tank through the oil drain hose **(3)** and the membrane valve **(4)**. The membrane valve opens automatically when the oil column inside the drain hose has reached a height of 500 mm. The cleaned air is sucked in by the blower **(5)** and blown out through the silencer **(2)** towards the top of the unit.

To be mounted directly onto a machining center.
Exhaust air can be recirculated to the manufacturing floor.



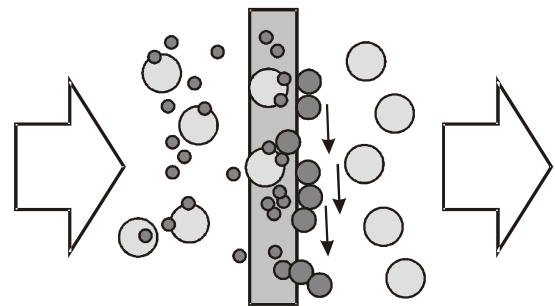
3. Range of applications

Suitable for all aerosols of oil-based cooling fluids (cutting, grinding, drilling oils etc.), oil aerosols from tools.
Please request for using with water-based cooling fluids.

Safety instruction



Unit must not be installed in explosive environment (ex zone 0, 1, or 2)!



Passing and coagulation of the mist droplets through the filter element

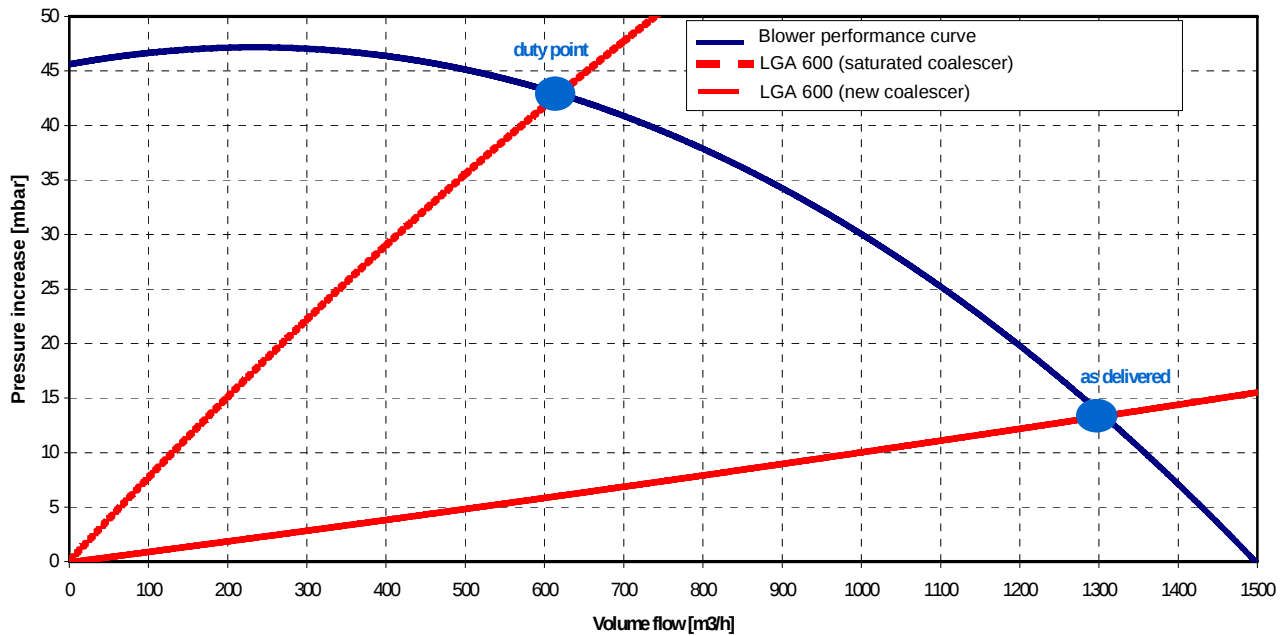
4. Order numbers

Designation	Position (refers to principle of operation)	Part number
Filter element	1	79354390
Silencer	2	76326227
Oil hose	3	76326268
Membrane valve	4	78769697
Blower with motor	5	76326177
Screw nut	6	76302996

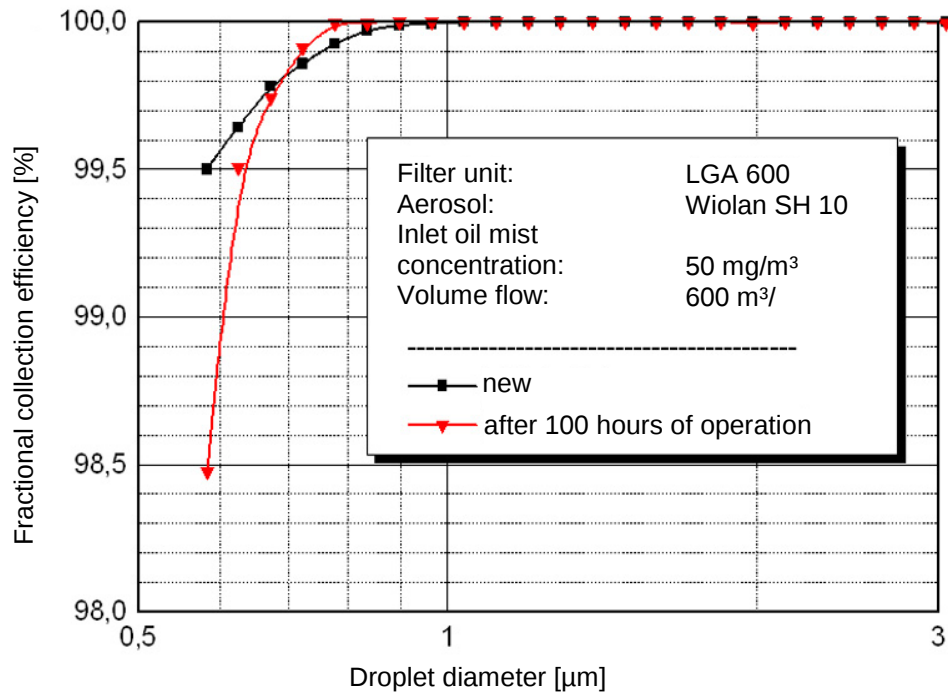
Technical data is subject to change without notice!

5. Technical data

Volume flow	600 m ³ /h	Motor voltage	230/400 V AC
Temperature range	+10 °C up to + 60 °C	Current input	9.0/5.2 A
Filter	1 coalescer element	Motor output	2.2 kW
Filter surface	4,6 m ²	Type of protection	IP 54
Air inlet	(„Jacob“- connection) 150 mm	Motor speed	2900 min ⁻¹
Oil drain hose	15 x 2 mm PVC transparent (3 m)	Sound level (as delivered)	74 dB (A)
Dimensions LxWxH	1070 x 600 x 950	Sound level (duty point)	71 dB (A)
Weight	140 kg		



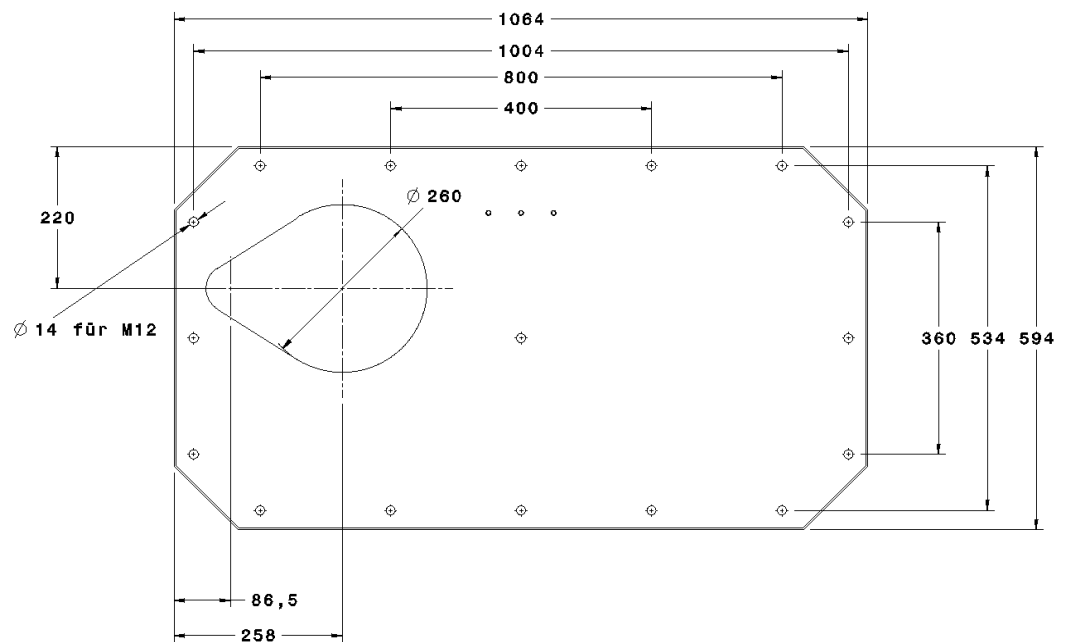
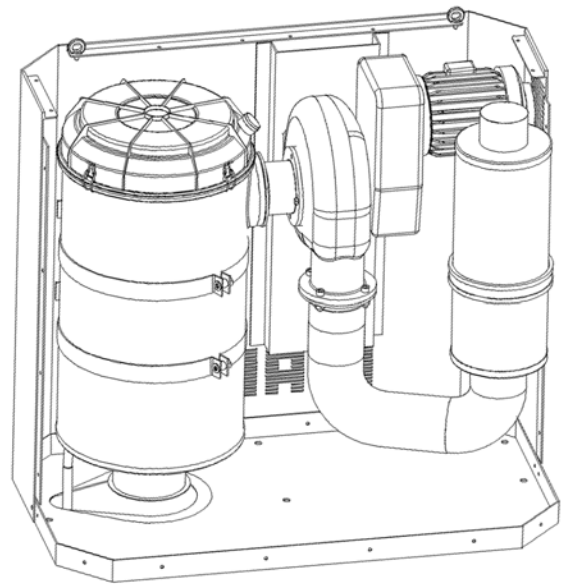
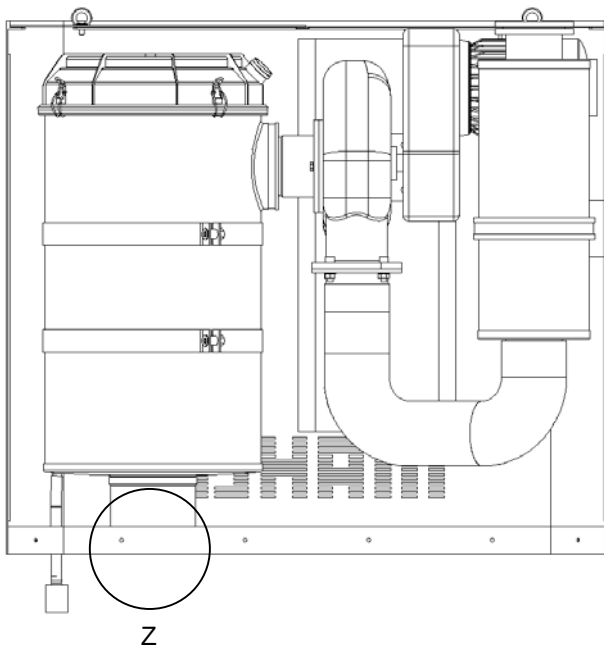
Blower performance curve



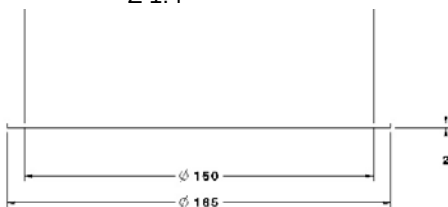
Separation efficiency

Technical data is subject to change without notice!

6. Assembly dimensions



Z 1:4



MAHLE Filtersysteme GmbH, Industriefiltration, Schleifbachweg 45, D-74613 Öhringen, Tel: +49 (0) 7941/67-0, Fax +49 (0) 7941/67-23429, industriefiltration@mahle.com, www.mahle.com
70302266.05/06

Technical data is subject to change without notice!