

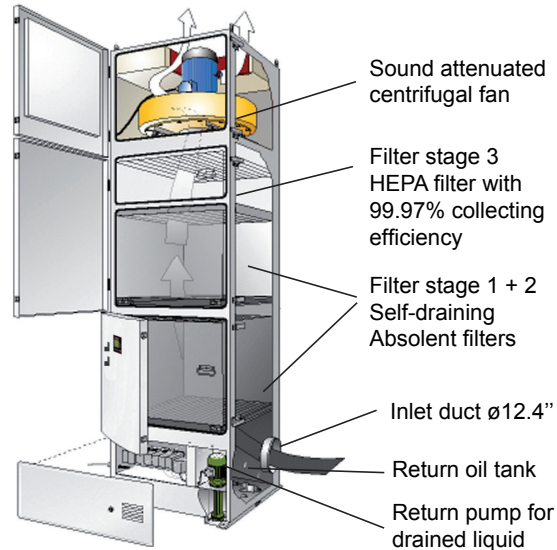


A•smoke⁴⁰ Oil Smoke Filter

The Absolent type A•smoke⁴⁰ Oil smoke filter features one of the most effective systems in the world for cleaning oil mist and oil smoke. The unit requires very little service: it can run for 1–6 years without requiring a filter change. For Absolent customers, this means extremely low life cycle costs. The A•smoke⁴⁰ filtration unit is designed for handling the most demanding applications, for air flows of up to 2350 cfm.

All Absolent products offer a unique combination of long useful life and high collecting efficiency

The Absolent filter unit offers a long useful life as well as consistently high collecting efficiency, thanks to its design and generous filter surface measuring either 1140ft² (standard) or 1269ft² (special requirements). Already after the second, self-draining Absolent filter, the particle level in the air is in most cases less than 1.0mg/m³. The A•smoke⁴⁰ is equipped with a third filter stage, a so-called HEPA filter, which ensures a consistent collecting efficiency. Thanks to these three filter stages, the air can usually be returned to the premises. This means less loss of energy and more balanced ventilation in the premises.



Operation

The filtering process occurs in three stages. The first and second stages consist of the self-draining Absolent filters, in which the filter material is adapted and mixed specifically for each application. The third stage consists of a HEPA filter, which has a guaranteed consistent collecting efficiency of at least 99.97% arresting 0.3µm dia. particles. Thanks to the unique design of the filter, the Absolent A•smoke filter can be operated continuously without unnecessary interruptions for draining. The return oil is collected at the bottom of the filter for recycling.

Range of Application

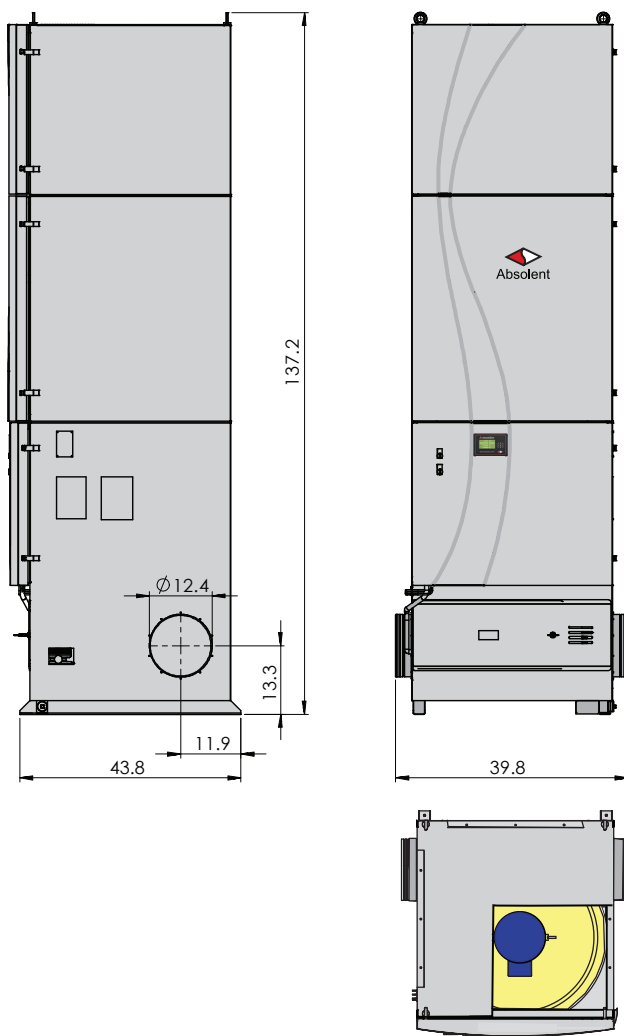
The Absolent A•smoke⁴⁰ is well suited for use in applications such as:

- Heat-treatment
- Cold-drawing
- Gear cutting
- Grinding with straight oil
- CNC turning with straight oil
- Forging operations and cold pressing

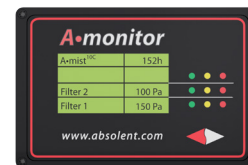
Design

The A•smoke⁴⁰ contains an electronic manometer, which shows the filter unit's time of operation as well as the state of the filter cassettes. The unit has spacious doors for safe and easy service. The pump and control box are built-in and the filter unit is ready to start - just connect it electrically and to the air duct. That's why we call it a "plug and play unit".





Electronic manometer



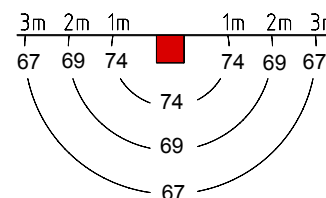
- Pressure drop and operation hour meters
- Optical indication of filter alarm (LED).
- Digital output signal for remote supervision.

Unique filter cassettes



Absolent is one of few companies in this line of business that has specialized in the filtration of air containing wet particles. This has given us the opportunity to develop a filter cassette that offers a long useful life with consistently high collecting efficiency.

Sound level, dB(A)¹⁾




Technical Data A•smoke⁴⁰

Max permissible air volume	[cfm]	2350
Sound level, 1m in front of filter unit ¹⁾	[dB(A)]	74
Weight (dry filters)	[lbs.]	2205
Available dim. ext. pressure drop	[in WC]	4.02
Filter area, filter 1 (Absolent filter) ²⁾	[ft ²]	258 / 387
Filterarea filter 2 (Absolentfilter)	[ft ²]	275
Filter area, filter 3 (HEPA filter)	[ft ²]	607
Fan Data		
Motor output	[hp]	10.0
Power supply	[V]	440-480
Rated current (3-Phase, 400V)	[A]	12.4
Speed	[rpm]	3510

¹⁾ Sound absorption in premises = 2153ft², Hemispherical sound propagation. For sound calculation concerning a specific room, contact us at Absolent or any of our dealers.

²⁾ The filter area varies for different applications.

Standard equipment

-  Colour: RAL 7035 fine structure
Other colours on request!
- Electronic manometer for reading the pressure drop across the filter cassettes.
- Fan starter
- Lifting lugs

Accessories

- PLC-controlled return pump for drained liquid
- Alarm indication with LED for pump
- Frequency control of the fan
- Constant flow control
- Duct connections for various types of steel or plastic ductwork available on the market
- Silencer, outlet
- Extension legs
- Water trap for various connections of the return oil pipe
- Outlet hood
- Pressure monitor, for external alarm or alarm indications with LED
- Spray system
- Special colour

Ongoing product development may subject our specifications to alteration without notice.