



A•smoke¹²⁰ Central Filter Unit arrest Oil Mist & Smoke

The Absolent type A•smoke Oil smoke collector features one of the most effective systems in the world for cleaning oil mist and oil smoke. The series of central collectors consists of parallel modules which are dimensioned after the needed airflow. A•smoke is designed for handling the most demanding applications with a dense mist and smoke problem. Typical applications are high-speed machining, heat treatment and cold headers, all signified by a very high level of ultra-fine particles in their exhaust air. At the same time, maintenance is minimal.

The highest possible collecting efficiency.

The filtered air becomes so clean that it usually can be returned to the premises. This means less loss of energy and a more balanced ventilation.

Designed for oil smoke.

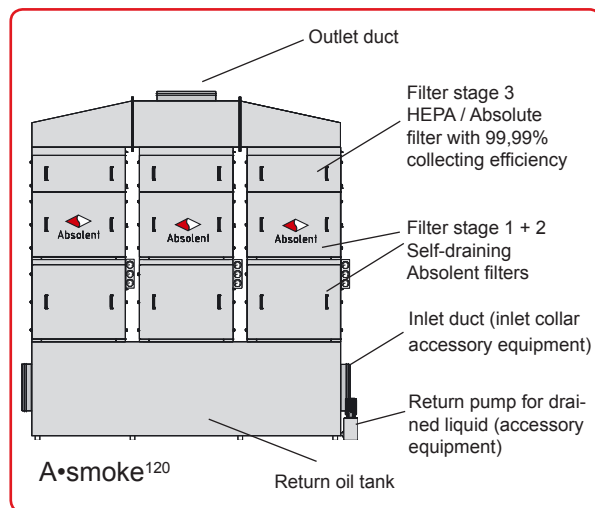
Oil smoke particles are very small, smaller than 1.0µm. Other filter types, such as centrifugal collectors, have difficulties with small particles. The Absolent unit is designed specifically for this purpose.

Extremely low maintenance.

Absolent collectors can usually run for up to 6 years without requiring a filter change. This results in a low total cost of ownership.

A very reliable unit.

There are no moving components; this makes the unit very reliable. The external fan is to be placed at the clean-side to minimize wear & tear.

A•smoke¹²⁰

Operation

The collecting process is done in three stages. The first and second stage consist of self-draining Absolent filter cassettes which are specifically designed for collecting both mist and smoke particles of which the latter are very small and usually defined as smaller than 1.0µm. These two stages together have a collecting efficiency of 95-99% depending on particle size. The third stage consists of a HEPA-filter (H13), which has a guaranteed and consistent collecting efficiency of 99.99% @ 0.3 microns. Every filter stage has a pressure gauge that indicates when a filter change is necessary. Thanks to the continuous draining of the filter cassettes, the unit can be operated without interruptions. The return oil is collected at the bottom of the filter for recycling.

Range of Application

The Absolent A•smoke filter unit is well suited for use in applications such as:

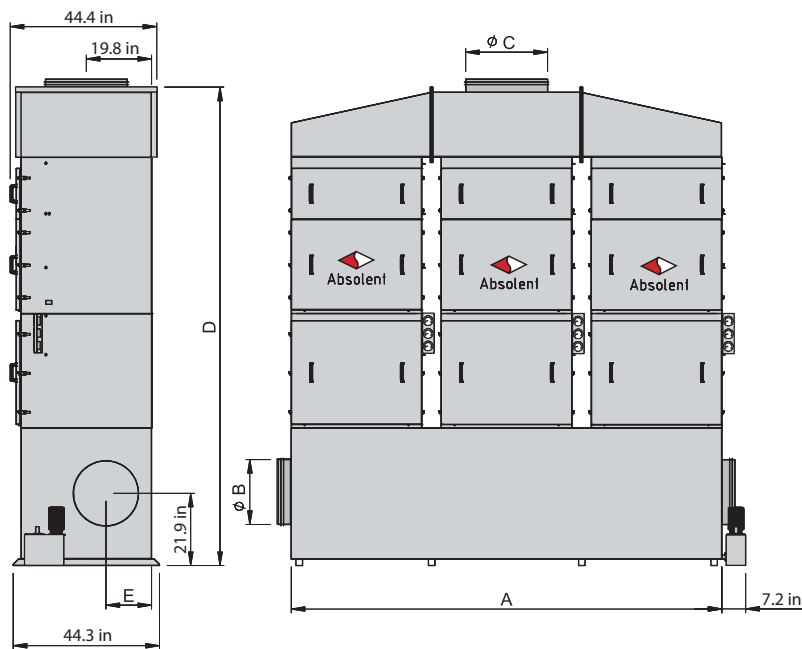
- Heat treatment
- Cold-drawing
- Gear cutting
- Grinding with neat oil
- CNC turning with neat oil
- Forging operations and cold pressing

Design

The A•smoke has a highly robust tower design that occupies a minimum of floor space

The A•smoke is supplied with a baked powder painted finish that adds colour to the shop floor.

Principle layout A•smoke¹²⁰



The filter unit has a central outlet as a standard. Side outlet upon request (for height see table underneath).

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.

Technical Data	A•smoke ¹²⁰	
Max permissible air volume	[cfm]	7050
Weight (dry filters)	[lbs.]	5733
Height with centred outlet (D)	[in]	145
Height with side outlet	[in]	151
Width (A)	[in]	130.5
Inlet duct, Ø (B)	[in]	19.7
Outlet duct, Ø (C)	[in]	24.8
Distance Inlet Duct (E)	[in]	13.8
Filter area, filter 1 (Absolent filter)	[ft ²]	774 ¹⁾
Filter area filter 2 (Absolentfilter)	[ft ²]	825 ¹⁾
Filter area, filter 3 (HEPA filter)	[ft ²]	1821

¹⁾ The filter area varies for different applications.

Filter units for bigger airflows can be supplied upon request.

Standard Equipment

- RAL 7035 fine structure
- Pressure gauges for reading the pressure drop across the filter.
- Lifting lugs.

Accessories

- External fan unit
- Automatic starter
- Pump unit for drained liquid
- Control of pump equipment
- Frequency control of the fan
- Constant flow control
- Duct connections for various types of steel or plastic ductwork available on the market.
- Pressure monitor for external alarm or alarm indications with LED.
- Filter sledge for easier change of filter cassettes.
- Special color

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



Absolent AB
 Kartåsgatan 1
 SE-531 40 Lidköping
 Sweden
 Phone: +46 (0)510-484000
 Fax: +46 (0)510-484029
 E-mail: info@absolent.se

Absolent Inc.
 8601 Six Forks Road, Suite 400
 Raleigh, NC 27615
 USA
 Phone: +1 (919) 562 0502
 Fax: +1 (919) 882 2087
 E-mail: info@absolent.com

Dealer: