



A•smoke¹²⁰ Central Filter Unit arrest Oil Mist & Smoke

The Absolent type A•smoke¹²⁰ Oil smoke filter features one of the most effective systems in the world for cleaning oil mist and oil smoke. The series of central filter units consists of parallel modules which are dimensioned after the needed airflow. A•smoke¹²⁰ is designed for handling the most demanding applications, such as heat treatment. At the same time, maintenance is minimal. Let us explain to you how this amazing combination works!

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 filters, have difficulties with small particles. The Absolent filter unit is designed specifically for this purpose.

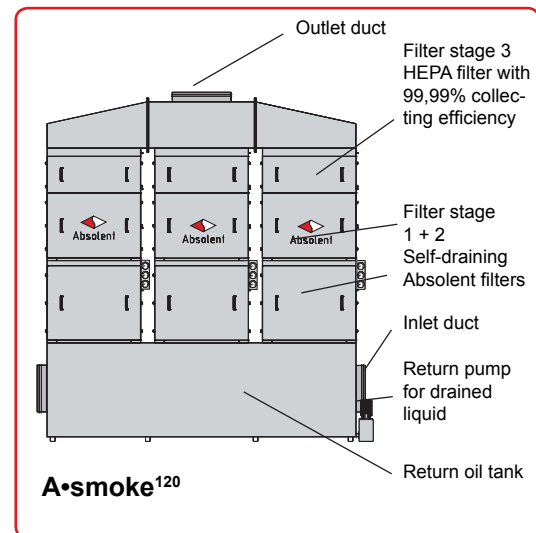
Extremely low maintenance.

Absolent filter units 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 filter unit.

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

A•smoke¹²⁰ with side outlet



Operation

The filtering process occurs in three stages. The first and second stages consist of self-draining Absolent filter cassettes. Here, a minimum of 95% of the oil mist and smoke is arrested. The third stage consists of a HEPA-filter, which has a guaranteed and consistent collecting efficiency of 99.99% arresting 0.3µm dia. particles. 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

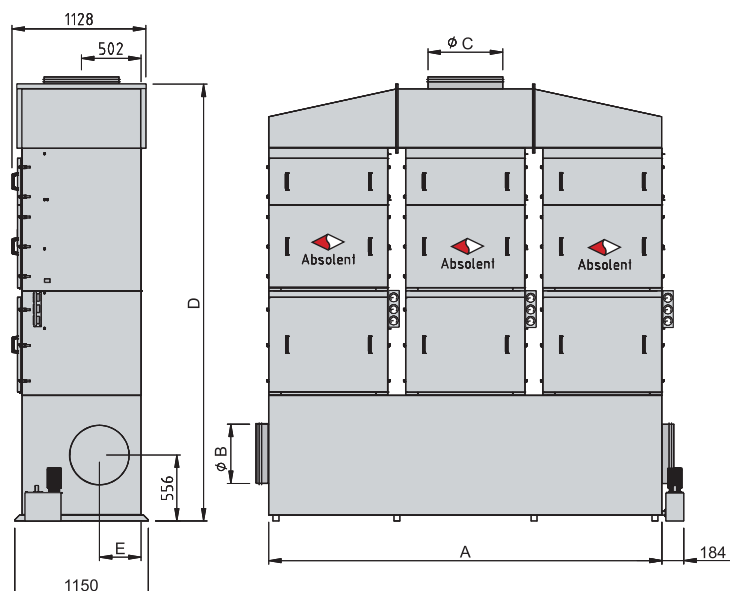
The Absolent A•smoke¹²⁰ filter unit is well suited for use in applications such as:

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

Design

The A•smoke¹²⁰ has a highly robust tower design that occupies a minimum of floor space. The A•smoke¹²⁰ is supplied with a baked powder painted finish that adds colour to the shop floor.

Principle lay-out A•smoke¹²⁰



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

Technical Data		A•smoke ¹²⁰
Max. permissible air volume	[m ³ /h]	12000
Weight (with clean filter cassettes)	[kg]	2600
Height with centred outlet (D)	[mm]	3688
Height with side outlet	[mm]	3832
Width (A)	[mm]	3332
Inlet duct, ϕ (B)	[mm]	500
Outlet duct, ϕ (C)	[mm]	630
Distance Inlet Duct (E)	[mm]	351
Filter area, filter 1 (Absolent filter)	[m ²]	72
Filter area, filter 2 (Absolent filter)	[m ²]	76.5
Filter area, filter 3 (HEPA-filter)	[m ²]	169.2

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 opportunity to develop a filter cassette that offers a long useful life with consistently high collecting efficiency.

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

Filter units for bigger air flows can be supplied upon request.

Standard Equipment

- RAL 7035 fine structure
Other colours on request!
- 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 colour



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