

A•smoke⁵ Oil Smoke Collector

The Absolent type A•smoke⁵ oil smoke collector is a compact, machine-mountable unit specialized in oil smoke. It is part of the A•smoke series that features one of the most effective systems in the world for cleaning oil mist and oil smoke. A•smoke⁵ is especially well suited for small, high-speed metal working machines that use oil or emulsion. The filter unit is designed for air flows up to 300cfm.

» **The highest possible collecting efficiency for safe and pleasant working conditions**

The collector unit has 4 filter stages. Those include a H13 hepa filter that guarantees a constant separation degree of 99.97% at 0.3 micron. The air gets totally free from particles and can usually be returned to the premises. This contributes to a balanced ventilation and reduces energy costs.

» **Designed for oil smoke.**

Oil smoke particles are very small, smaller than 1.0 micron. Other types of collectors, as for example centrifugal collectors, have difficulties with small particles. The Absolent unit is designed just for this purpose. The self-draining, highly compact filter cassettes can recover up to 80 gallons of oil per year, oil that otherwise would end up in the workshop air.

» **Energy-efficient fan with airflow guarantee - due to EcoDrive**

The highly efficient EC-fan with integrated airflow control ensures that the filter unit consumes as little energy as possible. The fan starts at low speed when the filter cassettes are clean and revs up slowly as they become dirtier, to ensure the correct airflow. It also responds if the machine is open or closed and adjusts its speed accordingly - the result is energy savings.

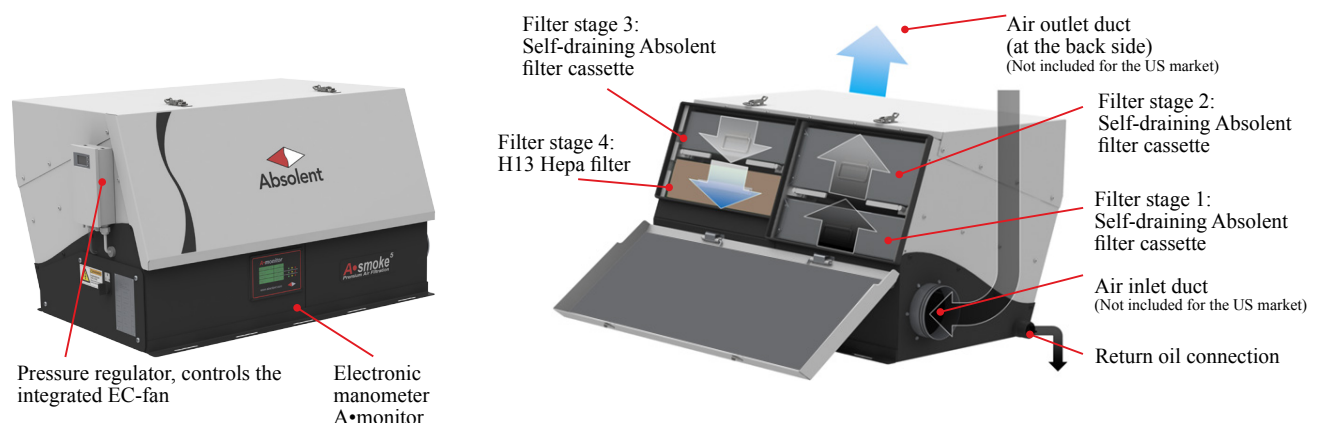
» **Its small and compact design makes A•smoke⁵ easy to place**

The unit is small and lightweight, making it ideal for placement on top of a machine, even small production machines. In some cases, it is even possible to integrate it into the machine.

Operation

The contaminated air from a machining process is led into the A•smoke⁵ via the inlet in the bottom section. This is also where the captured oil is led out, via the drainage outlet.

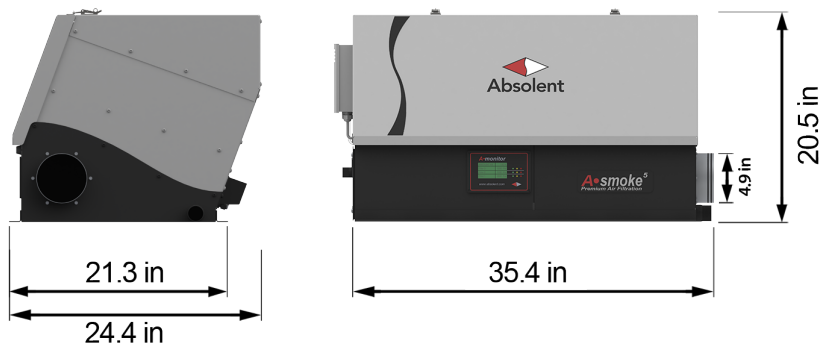
The air is first led through three self-draining Absolent filter cassettes and then the H13 HEPA filter. The filtration process will capture particles in a polluted airflow up to 300cfm with $\geq 99.97\%$ efficiency for at least one year without any service, in most oil mist and -smoke applications. The clean air is led out on the back side of the unit. Absolent's electronic manometer A•monitor indicates when service is needed. The airflow through the unit is created by an integrated EC fan which is controlled by a pressure regulator for an optimal function and the least possible energy consumption.



Range of Application

The Absolent A•smoke⁵ is well suited for use in applications such as:

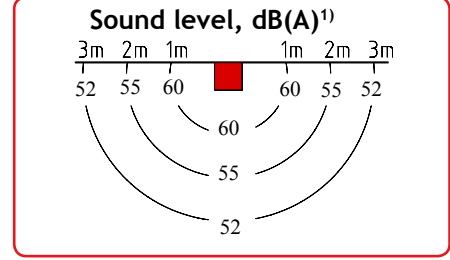
- Milling and CNC-turning involving neat oil
- Grinding
- Gear cutting
- Rotary transfer machines (Hydromats)
- Minimal lubrication
- Hardening



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 separation efficiency.

Technical Data		A•smoke ⁵
Max permissible air volume	[cfm]	<300
Sound level, 1m in front of filter unit ¹⁾	[dB(A)]	<60
Weight (dry filters)	[lbs]	154
Available dim. ext. pressure drop	[in WC]	0.40
Filter area filter 1 (Absolent filter)	[ft ²]	36.6
Filter area filter 2 (Absolent filter)	[ft ²]	30.1
Filter area filter 3 (Absolent filter)	[ft ²]	33.4
Filter area filter 4 (HEPA filter)	[ft ²]	66.7



Fan Data		A•smoke ⁵
Max motor output	[hp]	<0.5
Power supply	[V]	115V
Rated current (1-Phase, 115V)	[A]	4.4
Max speed	[rpm]	<5830

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.

Standard Equipment

- RAL 7035 fine structure and ● RAL 9005 fine structure
Other colours on request!
- EcoDrive (pressure regulation of EC-fan for maximum energy effectiveness)
- Electronic manometer with the following features:
 - ✓ Pressure drop and operation hour meters
 - ✓ Optical indication of filter alarm (LED).
 - ✓ Digital output signal for remote supervision.

Accessories

- Duct connections for steel or plastic ductwork
- Duct connection for air outlet
- Liquid traps for various connections of the return oil pipe
- Transformer for other voltages than 115V
- Special colours

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