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Central Oil Mist & Smoke collection system - ODR 6000 and up

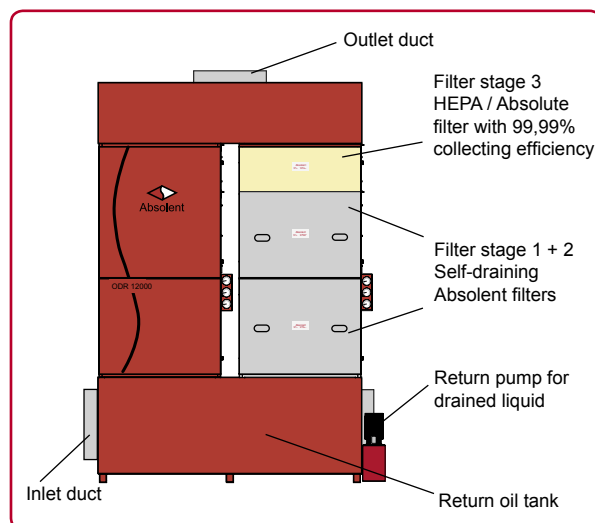
The Absolent ODR product line features one of the most effective systems in the world for collecting oil mist and oil smoke from various machining processes. This series of central collectors are dimensioned to the required air-flow and sized in standardized parallel modules. ODR is designed for handling 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.

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 $1.0\mu\text{m}$. 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% down to $0.3\mu\text{m}$ 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.



ODR 6000



“Absolently” clean air

The filtered air becomes so clean that it usually can be returned to the premises. For heated and air-conditioned plants this means a reduction of energy loss and for all plants it reduces the effort and cost to maintain a well balanced general ventilation.

Extremely low maintenance.

An Absolent ODR unit can run up to 6 years without requiring a filter change. The result is a low Life Cycle Cost.

Reliable and durable design

The ODR has a very compact design minimizing required floor space. The unit contains no moving components which makes it a very reliable collector.

Furthermore it is a highly robust tower design in welded high strength steel to ensure a totally leak free functionality.

The ODR is supplied with powder painted finish that adds a quality styling to the shop floor.

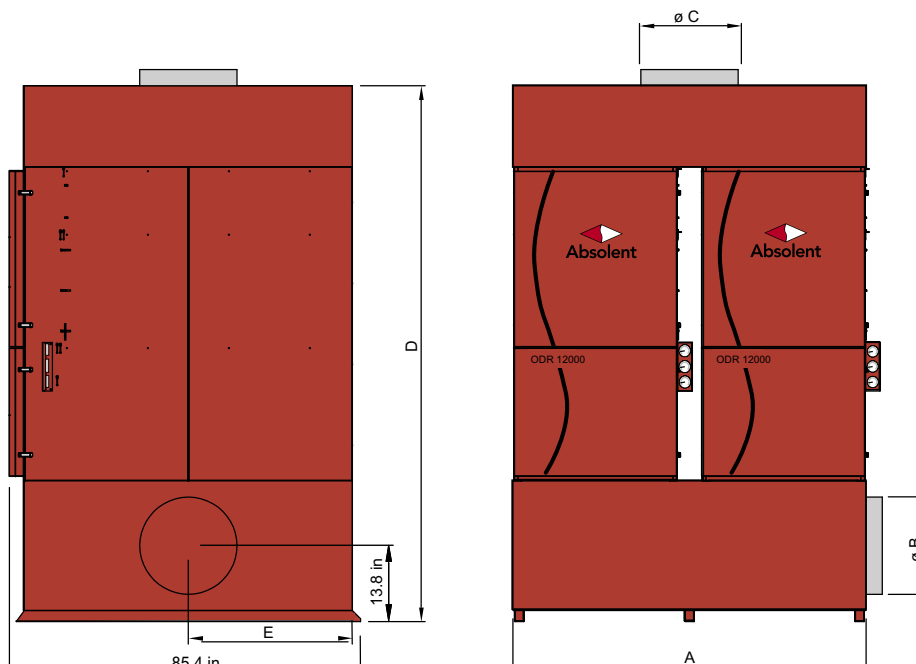
Range of Application

The Absolent ODR collector is well suited for applications such as:

- Heat treatment
- Cold-drawing
- Gear cutting
- Grinding with neat oil
- CNC turning with neat oil
- Forging
- Cold pressing
- Die casting

Principle lay-out (ODR 12000)

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




Technical data

	ODR 6000	ODR 12000	ODR 18000	ODR 24000
Max. permissible air volume [cfm]	4700	9400	14100	18800
Weight (with clean filter cassettes)[lb]	3860	7600	11250	15000
Height with centred outlet (D) [in]	113,4	130,3	138,2	-
Height with side outlet [in]	113,4	130,3	153,7	153,7
Width (A) [in]	45,6	89,3	134,8	180,5
Inlet duct, ø (B) [in]	16	26	32	36
Outlet duct, ø (C) [in]	20	32	32	77,2X29,1
Distance Inlet Duct (E) [in]	12,3	39,8	39,8	39,8
Filter area, filter 1 (Absolent filter) [ft ²] ¹⁾	517	1033	1550	2067
Filter area, filter 2 (Absolent filter) [ft ²]	549	1098	1647	2196
Filter area, filter 3 (HEPA-filter) [ft ²]	1214	2428	3642	4857

¹⁾The filter area varies for different applications.



Filter units for bigger airflows can be supplied on request

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.

Standard Equipment

- Colour  Red (RAL 3000)  Grey (RAL 7032)
- Pressure gauges for reading the pressure drop across the filter

Accessories

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

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



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