

Absolent

ODF 4000 Oil Mist Filter

The Absolent type ODF 4000 Oil mist filter features one of the most effective systems in the world for cleaning oil mist. The unit requires very little service (can run for 1–3 years without requiring a filter change). For Absolent customers, this means extremely low life cycle costs.

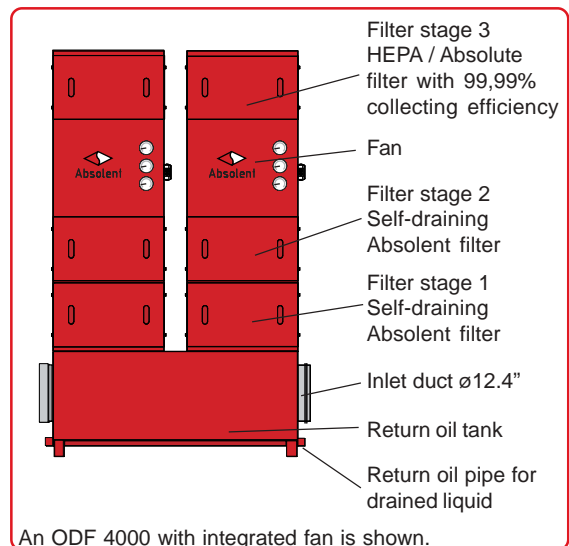
The ODF 4000 filtration unit is designed for handling applications with air flows of up to 2350 cfm. The ODF 4000 is a so-called central filter.

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 1022 ft². Already after the second, self-draining Absolent filter, the particle level in the air is in most cases less than 1.0 mg/m³.

The ODF 4000 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.

In the majority of applications, the stage 1 and 2 filters are washable.



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 99.99% arresting 0.3 µm dia. particles. Thanks to the unique design of the filter, the Absolent ODF filter can be operated continuously without any unnecessary interruptions for draining. The return oil is collected at the bottom of the filter for recycling.

Range of Application

The Absolent ODF 4000 is well suited for use in applications such as:

- Grinding (emulsive cutting fluid)
- Turning (emulsive cutting fluid)
- Milling (emulsive cutting fluid)
- Electrical discharge machining
- Machining, using straight oil for moderate loads

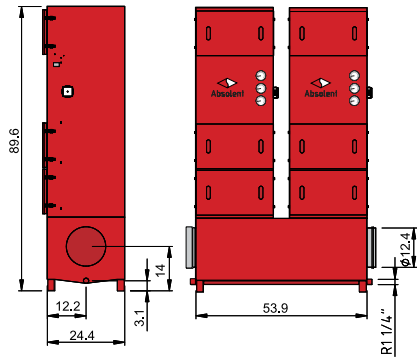
Design

The ODF 4000 has a highly robust tower design that occupies a minimum of floor space. The ODF 4000 is supplied with a baked powder painted finish that adds colour to the shop floor.

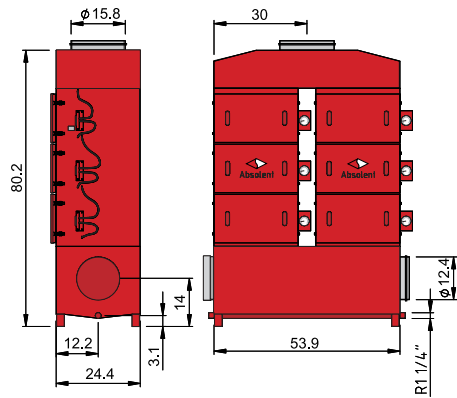


ODF 4000

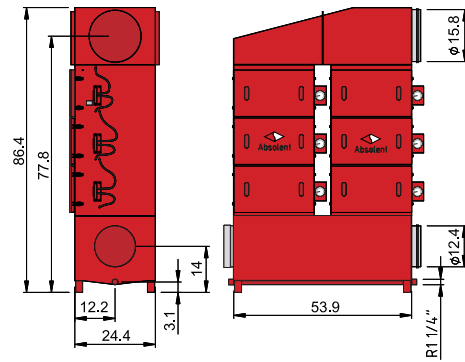
All measurements are stated in [inch]



ODF 4000 with integrated fan

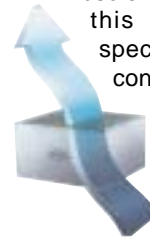


ODF 4000 with centred outlet, fan not included



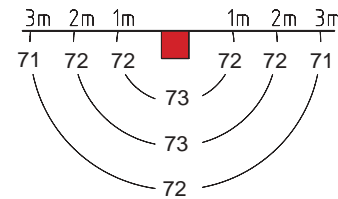
ODF 4000 with outlet side, fan not included

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 and consistently high collecting efficiency.

Sound level^{1) & 2)}, dB(A)



Technical Data

Max. permissible air volume	2350 cfm
Sound level, 1m in front of filter unit ¹⁾	73 ²⁾ dB(A), (see illustration)
Weight (dry filters) ²⁾	849 lbs.
Available dim. external pressure drop	500 ²⁾ Pa
Filter area, filter 1 (Absolent filter)	308 ft ² (the area differs for various applications)
Filter area, filter 2 (Absolent filter)	276 ft ² (the area differs for various applications)
Filter area, filter 3 (HEPA-filter)	438 ft ²

Fan Data

Motor output	2 x 3.5 ²⁾ hp
Rated current (3-phase)	2 x 4.6 ²⁾ A
Power supply (3-phase)	440-480 ²⁾ V
Speed	3400 ²⁾ rpm

Color options

- Red (RAL 3000)
 - Grey (RAL 7032)
- Other colors can be quoted on request!*

¹⁾ Sound absorption in premises=1078 ft², Hemispherical sound propagation. For sound calculation concerning a specific room, contact us at Absolent or any of our dealers.

²⁾ With built-in fan. The particulars of the external fan are specified in the fan instructions.

Standard Equipment

- Pressure gauges for reading the pressure drop across the filter

Accessories

- External fan unit
- Motor starter for fan(s). Either a manual or protective motor contactor (for automatic or external starting)
- Outlet hood
- Carbon filter
- Duct connections for various types of steel or plastic ductwork available on the market
- Extension legs, (standard height 400 mm)
- Water trap for various connections of the return oil pipe
- Pump unit for pumping the return oil from the filter
- Sound insulation ²⁾
- Extra outlet silencers ²⁾
- Pressure monitor, for external alarm or alarm indications with LED

Ongoing product development may subject our specifications to alteration without notice



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