



ODR 2000 Oil Mist and Oil Smoke Filter

The Absolent type ODR 2000 Oil Mist and Smoke filter unit features one of the most effective systems in the world for cleaning oil mist and oil smoke. The ODR 2000 very seldom requires maintenance (operating 1 – 5 years without having to change filters) - for Absolent customers, this means extremely low life cycle costs. The Absolent ODR 2000 filter unit is designed for handling really tough applications with air flows of up to 1180 cfm.

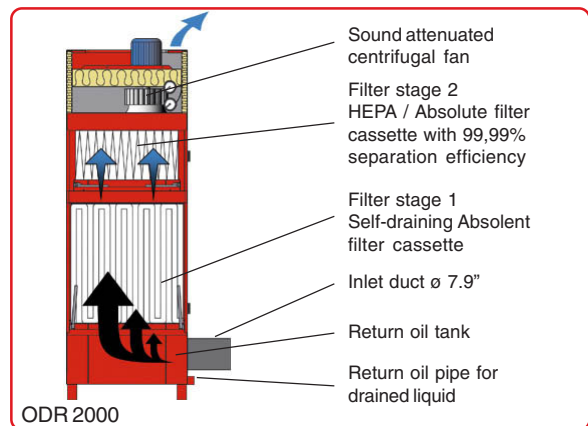
Absolent products offer a unique combination of long useful life and high separation efficiency

The Absolent filter unit offers long useful life as well as consistently high separation efficiency, thanks to its design and generous filter surface, measuring 342 ft². The filter unit is equipped with two filter stages.

The first stage is a completely new high-tech filter cassette. The unique filter material, developed in Absolent's laboratory, is extremely effective, even for filtering air in very tough applications. Filter stage 2 is a so-called HEPA filter. The filter unit is guaranteed to operate maintenance-free for up to 2 years in applications where particle loads don't exceed 100 mg/m³, a unique feature on today's market!

Thanks to the high separation efficiency of the two filter stages, the filtered air can be returned to the premises. This means less loss of energy and more balanced ventilation in the premises.

The ODR 2000 generates a sound level that can be compared with that heard inside an automobile. Through methodical product development work, Absolent have been able to reduce its sound level to an incredibly low 65 dB(A).



Operation

The filtering process is carried out in two stages. The first stage consists of a new high-capacity filter cassette. Already in this single filter stage, the unit achieves a separation efficiency of up to 98%. Thanks to the filter cassette's unique self-cleaning capability, its long useful service life is unique. The few particles remaining are then arrested by the HEPA filter which has a guaranteed consistent separation efficiency of 99.99%, collecting size 0.3 microns (mpps) particles. The Absolent ODR filter is geared to operate continuously without unnecessary shutdowns for draining. The return oil is collected at the bottom of the filter for recycling.

Range of Application

The Absolent ODR 2000 is well suited for use in many fields of application. The filter unit is perfect for use in complicated installations where the operations can give rise to substantial impurity loads, such as:

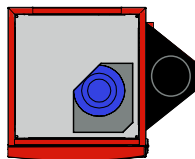
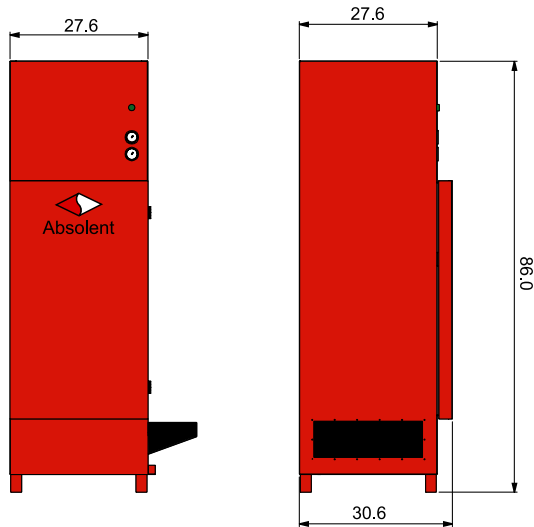
- Rotary transfer machines (Hydromats)
- Grinding (high-speed)
- Minimal lubrication
- Hardening
- Milling & CNC turning involving straight oil lubrication.
- Gear cutting

Design

The ODR 2000 is a highly robust tower design that occupies a minimum of floor space. The filter unit is equipped with a hinged access door for easy inspection. The ODR 2000 is supplied with a baked powder coated external finish that adds color to the shop floor.

ODR 2000

All measurements are stated in [inch]

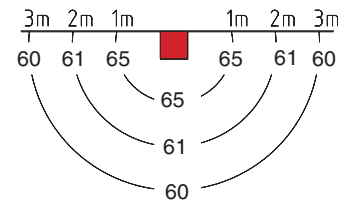


Unique filter cassettes



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 level¹⁾, dB(A)



Technical Data

Max. permissible air volume	1180 cfm
Sound level, 1m in front of filter unit ¹⁾	65 dB(A), see illustration
Weight (dry filter cassettes)	617 lbs.
Available dim. external pressure drop	200 Pa
Filter area filter 1 (Absolentfilter)	123 ft ²
Filter area filter 2 (HEPA filter)	219 ft ²

Fan Data

Motor output	3.5 hp
Rated current (3-phase)	4.6A
Voltage (3-phase)	440-480 V
Speed	3400 rpm

Color option

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

Standard Equipment

- Pressure gauges for reading the pressure drop across the filters

Accessories

- Motor starter for fan. Manual or protective motor contactor (for automatic or external starting)
- Outlet hood
- Carbon filter
- Connection piece for various types of steel or plastic tubular ducts available on the market
- Extension legs, height 400 mm
- Water seal for various types of return oil pipe connection
- Pump unit for pumping the return oil from the filter
- Pressure monitor, for remote or local LED alarm indication
- Filter sledge for simple handling of used filter cassettes

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.



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