



A Donaldson Company

A WORLD LEADER IN FUME  
EXTRACTION TECHNOLOGY

# AD Oracle

LASER

Last Updated on 08.04.2021



The complete, global solution for high performance laser fume extraction.

The AD Oracle packs a powerful range of unique features into one compact unit.

The revolutionary auto-voltage sensing turbine automatically self adjusts to run on any voltage worldwide, whilst the Reverse flow filter technology enhances filter performance and ensures longer filter life.

Automatic flow control allows the user to preset correct flow rates, giving lower noise levels and further protection of both the combined filter and the DeepPleat DUO pre filter, which has an impressive 12m<sup>2</sup> of surface area.

## Technology



DeepPleat DUO pre-filter



HEPA filter



Automatic flow control (AFC) technology



Reverse flow air (RFA) technology



Advanced carbon filter (ACF) technology



Multi voltage sensing (MVS) unit



Patented technology



ProTECT service plan



SureCHECK quality standard

## Key features of the AD Oracle

Auto sensing voltage (90v - 257v) for global use  
Standard

DeepPleat DUO pre-filter  
Standard

HEPA and gas combined filter  
Standard

Automatic flow control  
Standard

Advanced carbon filter technology  
Standard

Reverse flow  
Standard

Contact BOFA at <https://bofainternational.com/en/contact/>

<https://bofainternational.com/en/portal/datasheets/ad-oracle/>



**'Easi-seal' filter location**

Standard

**Small footprint and low noise level**

Standard

**Interfacing with host laser**

Optional

**Filter change / system fail signal**

Optional

**Castors for portability**

Standard

**VOC gas sensor (Volatile Organic Compound)**

Optional

**Remote stop / start interfac**

Optional

**Optional filter medias**

Optional

**Technical specification**

1. Unit / filter condition display  
- Automatic flow control

2. On / off switch

3. Power cable

4. Signal / interface cable

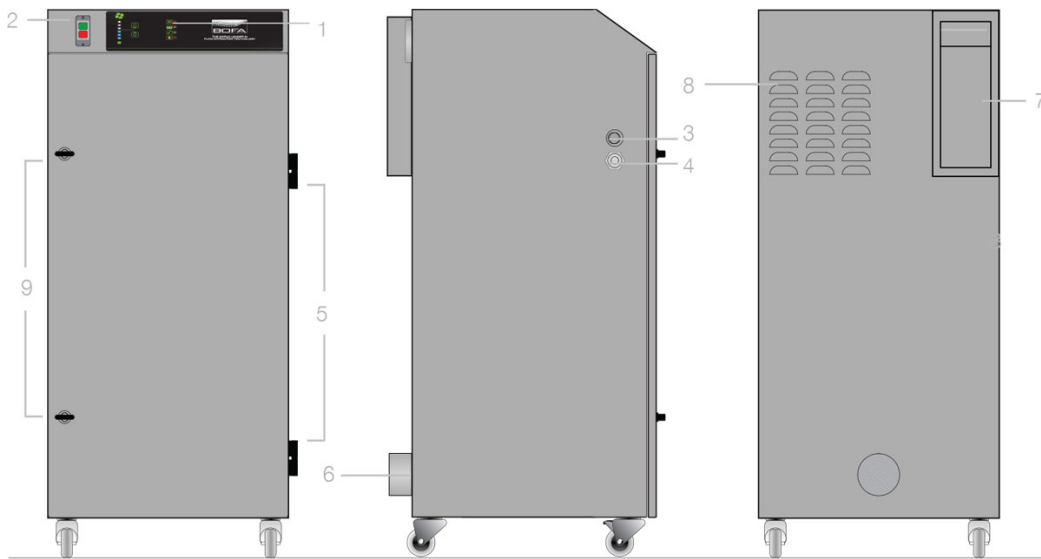
5. Door hinge

6. Hose inlet connection -  
75mm







7. Exhaust outlet

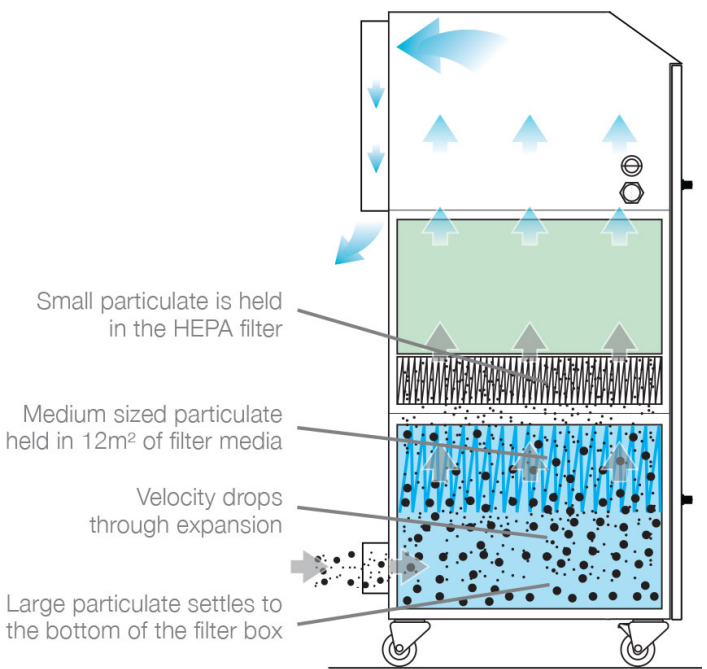
8. Motor cooling inlet

9. Door latch



**Airflow through filters**

-  Chemical filter
-  HEPA filter
-  Pre-filter
-  Clean air
-  Contaminated air
-  Particulate



## Technical data

|                      | EU   | US   |
|----------------------|--|--|
| Dimensions (HxWxD)   | 955 x 430 x 475 mm   | 37.60 x 16.93 x 18.70"   |
| Cabinet construction | Brushed stainless steel / Powder coated mild steel                     | Brushed stainless steel / Powder coated mild steel                     |
| Airflow / Pressure   | 380m <sup>3</sup> /hr / 96mbar   | 223cfm / 96mbar  |
| Electrical data      | 90 - 257v Single-phase 1~ 50/60Hz Full load current: 12.5 amps / 1.1kw | 90 - 257v Single-phase 1~ 50/60Hz Full load current: 12.5 amps / 1.1kw |
| Noise level          | < 60dBA (at typical operating speed)                                   | < 60dBA (at typical operating speed)                                   |
| Weight               | 65kg   | 143lbs   |
| Approvals            | UKCA and CE  | cUL, UL*   |

## DeepPleat DUO pre-filter specifications

|                           |   |
|---------------------------|---|
| Surface media area        | 12m <sup>2</sup> approx (129.12 ft <sup>2</sup> ) |
| Filter media              | Borosilicate                                      |
| Filter media construction | Maxi pleat with glue bead spacers                 |
| Filter housing            | Zintec mild steel                                 |
| Filter efficiency         | 95% @ 0.9 microns                                 |
| Inlet size                | 75mm (0.24 ft)                                    |
| Dropout chamber size      | 16.2 litres                                       |
| Filter media pleat size   | 200mm (0.65 ft)                                   |

## Combined filter specifications

|                          |  |
|--------------------------|--|
| HEPA filter media        | Borosilicate                                   |
| HEPA media construction  | Maxi pleat construction with glue bead spacers |
| Filter housing           | Zintec mild steel                              |
| Treated activated carbon | 15kgs (33 lbs)                                 |
| Filter efficiency        | 99.997% @ 0.3 microns                          |

## Part numbers

| Model                     | Part no. | 24V stop / start | Filter change / System failure signal | VOC monitoring | Hose kit            |
|---------------------------|----------|------------------|---------------------------------------|----------------|---------------------|
| AD Oracle stainless steel | L1954A   | A2001            | A2002                                 | A2003          | A1020008<br>75-50mm |
| AD Oracle powder coated   | L1944A   | A2001            | A2002                                 | A2003          | A1020008<br>75-50mm |

## Replacement filters

| Model     | DeepPleat DUO pre-filter | Combined filter |
|-----------|--------------------------|-----------------|
| AD Oracle | A1030156                 | A1030155        |

\* Tested to UL and cUL standards, but testing may be provided by alternate nationally recognised test laboratories. Certain product configurations may affect the UL certification. Please speak to your sales representative.

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## Other languages

AD Oracle  
[German](#)

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*Datasheet correct at time of publishing.*

*Where applicable, the carbon used in BOFA units is capable of removing a wide range of VOC's, however it is the responsibility of the user to ensure the carbon is suitable for their application. For specific applications, please contact us for details.*

*Think before you print! Please consider the environment before printing this document.*

