

# AD Oracle Auto flow

## User Manual



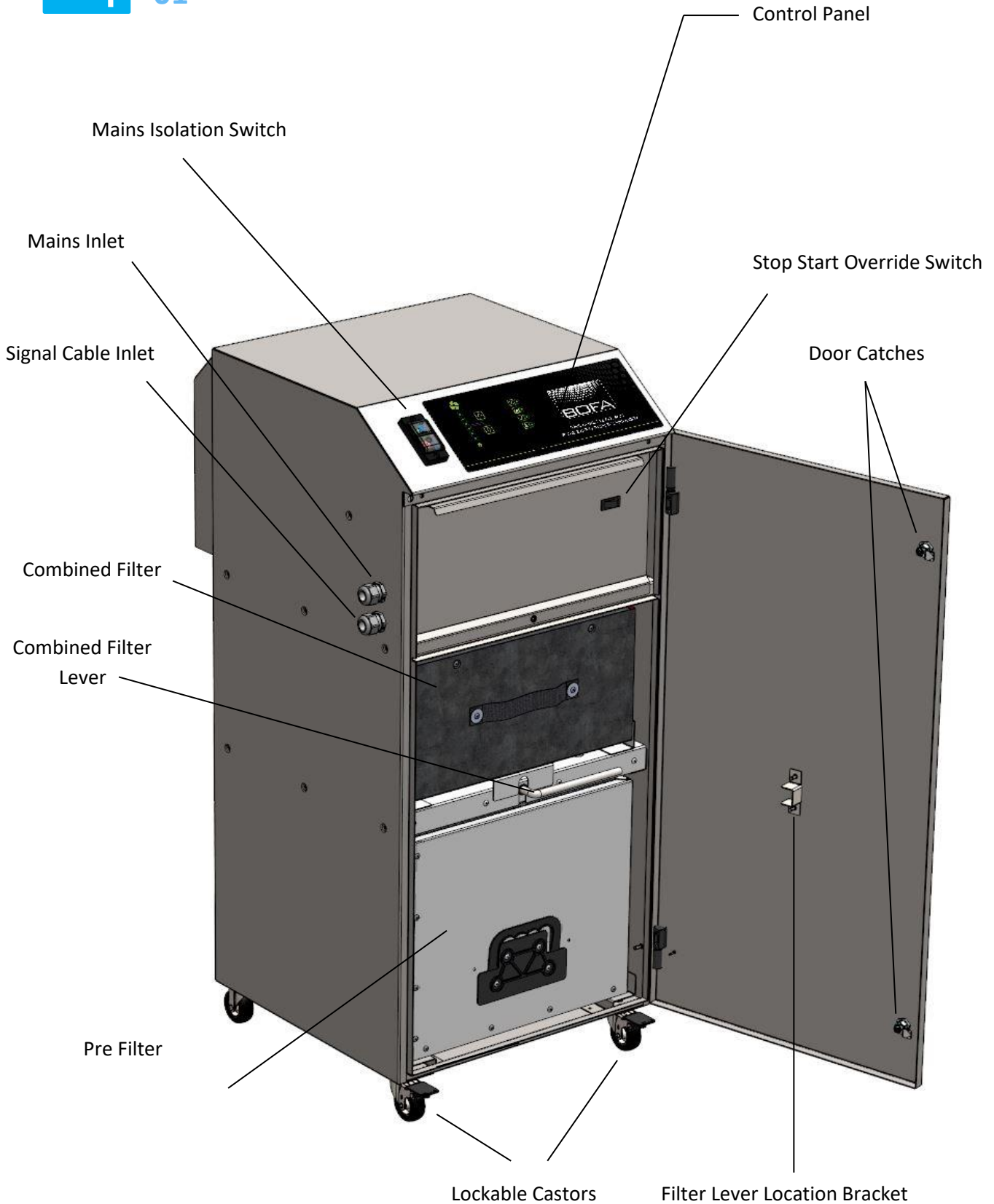
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# Overview



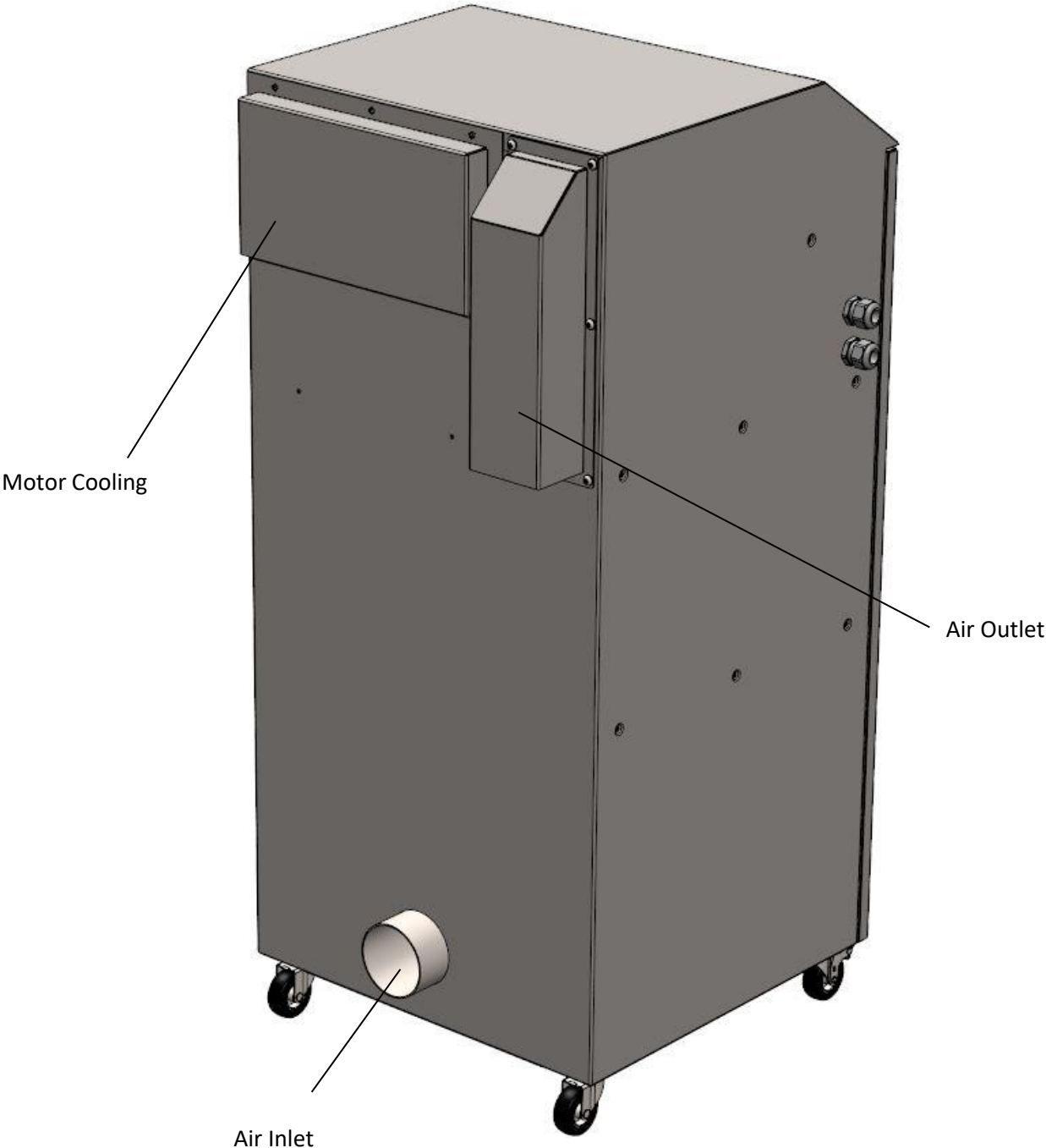
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# Overview



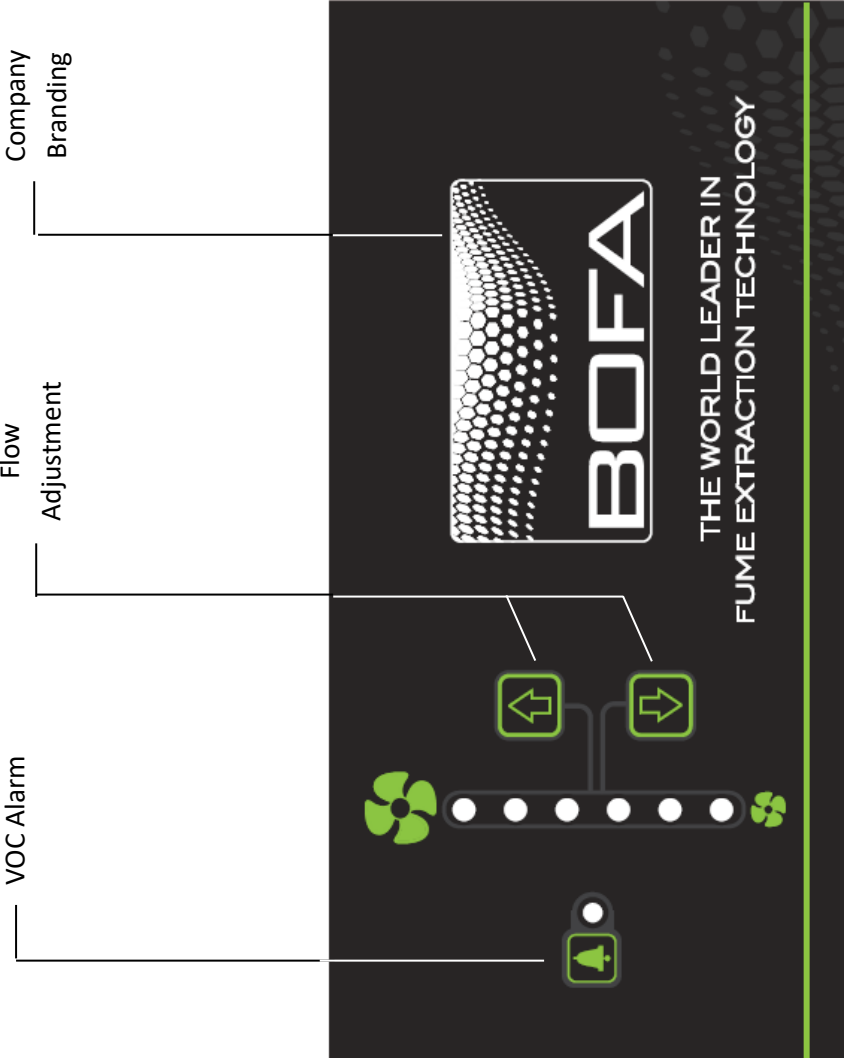
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# Overview

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# Safety Instructions

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## Important safety notes

Concerning symbols used on the extraction unit and referred to within this manual.



Danger

Refers to an immediately impending danger. If the danger is not avoided, it could result in death or severe (crippling) injury. Please consult the manual when this symbol is displayed.



Warning

Refers to a possibly dangerous situation. If not avoided it could result in death or severe injury. Please consult the manual when this symbol is displayed.



Caution

Refers to a possibly harmful situation. If not avoided, damage could be caused to the product or something in its environment.



Important (Refer to manual)

Refers to handling tip and other particularly useful information. This does not signify a dangerous or harmful situation. Refer to manual when this symbol is displayed.

## Electrical Safety

The AD Oracle Autoflow has been designed to meet the safety requirements of the Low Voltage Directive 2006/95/EC (previously numbered 73/23/EEC)

## Warning

When working with the pump/motor housing open, Live 230/115 volt mains components are accessible. Ensure that the rules and regulations for work on live components are always observed.

## Important

To reduce the risk of fire, electric shock or injury:

1. Always isolate the system from the mains power supply before removing the pump/motor access panel.
2. Use only as described in this manual.
3. Connect the system to a properly grounded outlet.

## Dangers to eyes, breathing and skin

Once used, the filters within the AD Oracle Autoflow system may contain a mixture of particulates, some of which may be sub-micron size. When the used filters are moved it may agitate some of this particulate, which could get into the breathing zone and eyes of the operative. Additionally, depending on the materials being used, the particulate may be an irritant to the skin.

**This unit should not be used on processes with sparks of flammable materials or with explosive dusts and gases, without implementation of additional precautions.**

**Caution: When changing used filters always wear a mask, safety shoes, goggles and gloves.**

## Carbon selection

Please note that the media within the filter fitted in the AD Oracle Autoflow is capable of adsorbing a wide range of organic compounds. However, it is the responsibility of the user to ensure it is suitable for the particular application it is being used on.

## BOFA Technical Service

If problems arise with your AD Oracle Autoflow unit or if it displays a fault code, please contact us:

- Visit our website at [www.bofa.co.uk](http://www.bofa.co.uk) for on-line help.
- Or contact the helpline on **+44 (0) 1202 699444**, Mon-Fri, 9am-5pm.  
Email: [Technical@bofa.co.uk](mailto:Technical@bofa.co.uk)

## Serial Number

For future reference, fill in your system details in the space provided. The serial number is on the rating label located on the side/rear of the unit.

Serial Number:

# Safety Instructions



## Warning and Information labels

The following listing details labels used on your AD Oracle Autoflow unit.

### Goggles, Gloves & Mask Label



Location: Front face of filter.

Meaning: Goggles, Gloves and Masks should be worn while handling used filters.

### Do Not Cover Label



Location: Rear lower access panel.

Meaning: Do not cover any louvers or holes adjacent to the label.

### Electrical Danger



Location: Base of unit.

Meaning: Removal of panels with this label attached will allow access to potentially live components.

### Warning Label



Location: Next to release clips.

Meaning: Power should be isolated before the panel with this label attached is opened/ removed.

### Serial Number Label



Location: Next to mains inlet.

Meaning: This label contains a variety of information about the extraction unit, including.

- Company name, Address & Contact number
- Extractor model
- Unit serial number
- Operating voltage range
- Maximum current load
- Operating frequency
- Year of Manufacture
- Relevant approval markings/ logos

**PLEASE NOTE:** If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment maybe compromised.

### Fire Risk Warning

In the very rare event that a burning ember or spark is drawn into the fume extraction unit, it may be possible that the filters will ignite.

Whilst any resultant fire would typically be retained within the fume extraction unit, the damage to the extractor could be significant. It is therefore essential to minimise the possibility of this occurring by undertaking an appropriate Risk assessment to determine:-

- a). Whether additional fire protection equipment should be installed.
- b). Appropriate maintenance procedures to prevent the risk of build-up of debris which could potentially combust.

This unit should not be used on processes where sparks could occur, with explosive dusts and gases, or with particulates which can be pyrophoric (can spontaneously ignite), without implementation of additional precautions

It is essential that nozzles or other extraction/ fume capture devices and hoses/pipework are cleaned regularly to prevent the build-up of potentially ignitable debris

## Before installation

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#### Inner transit packaging removal & unit placement

Before installation, check the extraction unit for damage. All packaging must be removed before the unit is connected to the power supply.

**Please read all instructions in this manual before using this extractor.**

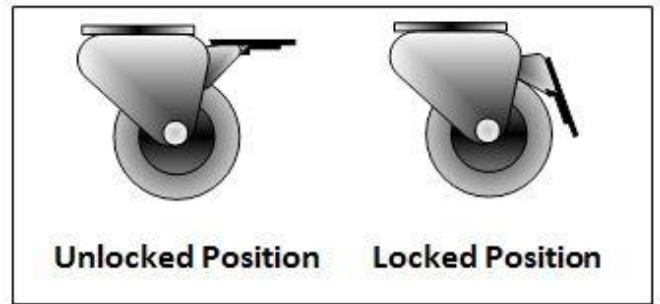
1. Move the unit to the location where it is going to be installed and remove the outer packaging. **This unit should be installed in a well-ventilated area.**
2. Open the front door and remove the transit foam from the centre of the unit.



#### Caution

Due to the weight of the extractor suitable lifting equipment should be used and with regard to appropriate safety precautions. (See Appendix for product weight details) Ensure that 500 mm space is available around any vented panels on the extractor to ensure adequate airflow.

3. With the unit in position lock the 2 front castors.



#### Caution

Do not block or cover the cooling vents on the unit, as this severely restricts airflow and may cause damage to the unit.



#### Caution

Do not block or cover the cooling vents on the unit, as this severely restricts airflow and may cause damage to the unit.

4. Check the filters are located in their correct position before closing the door and securing the door latches.

**Note: The unit will not operate correctly if the Combined filter has not been secured in place using the internal lever. (As detailed below)**





# Installation



01

**Specification:** AD Oracle Autoflow

Dimensions: Height 818mm Depth 552mm Width 476mm

Weight: 54.5Kg

Voltage: 115-230V

Frequency: 50/60Hz

Full load current: 12.5A

Power: 1100w

Capacity: 380m<sup>3</sup>/h

## Connection to Power Supply

Please follow the above specification when selecting the power supply outlet for the AD Oracle Autoflow system, ensure the power supply is suitable before connecting the FumeKart system.

Check the Integrity of the electrical power cable, if the supply cord is damaged the extraction unit should not be connected to the mains. The supply cord should only be replaced by a BOFA engineer as an electrical safety test may be required after replacement.



The AD Oracle Autoflow **MUST** be connected to a properly earthed outlet.



If your AD Oracle Autoflow system was ordered with any optional extras please read section 4.03 before the power connection is made as additional connections may be required before power is connected to the extractor.

Connect the power cable to an isolated electrical supply.

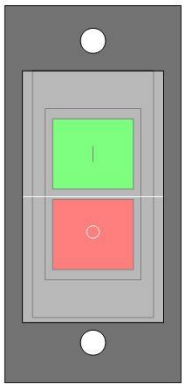
The mains socket should be installed near the extractor it should be easily accessible and able to be switched On/ Off. The cable run should be arranged so as not to create a trip hazard.

# Operation

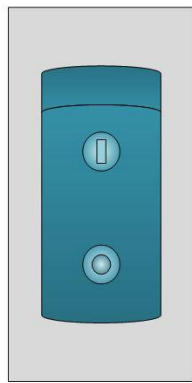


## Turning extraction unit On

Press the main isolation switch to the "On" position (Refer to section 1 for switch location) by depressing the 'I' side of the switch.



Stainless Steel



Powder Coated

## Setting the desired airflow

The AD Oracle Autoflow features autoflow controls. This enables the user to set the required airflow rate. Over time as the filters begin to block the unit will increase the motor speed to ensure the correct flow is maintained to compensate for any loss in performance caused by the added restriction of the partially blocked filters.



**The extractor and all pipe work must be fully installed and connected before the airflow is set.**

## Setting the desired airflow

The AD Base 1 Oracle features automatic flow control. This enables the user to set the required airflow rate. Over time as the filters begin to block the motor will automatically begin to increase in speed to compensate for any loss in performance caused by the added restriction of the partially blocked filters.



**The extractor and all pipe work must be fully installed and connected before the airflow is set.**

## To set the airflow

Hold down the Up and Down arrows on the front panel for 5 seconds. The green LED will now start to flash, indicating that the machine is now in set mode. You can now increase or decrease the flow by holding down either the up or down arrow. The flow is indicated by a row of six blue LED's on the front panel, 6 being full speed and 1 being the lowest. Set the airflow on the lowest of the 6 LED's but still ensure that all of the fume is being removed. This will vary from application to application. Once you have set your speed, leave the controls for 10-20 seconds and the machine will return to operation mode. (This setup procedure should be carried out with all the ductwork connected and (if fitted) the stop/start signal present).

# Maintenance



## Maintenance UK

It is a legal requirement, under regulation 9 of the COSHH regulations that all local exhaust ventilation systems are thoroughly examined and tested at least once every 14 months (typically carried out annually). The approved code of practice recommends that a visual check should be carried out at least once a week.

COSHH requires the annual inspection and testing to be carried out by a competent person and specifies that documentation results are recorded in a log.

Contact the seller for more information about inspection and certification.

## Maintenance General

User maintenance is limited to cleaning the unit and filter replacement, only the manufacturers trained maintenance technicians are authorised to carry out component testing and replacement. Unauthorised work or the use of unauthorised replacement filters may result in a potentially dangerous situation and/or damage to the extractor unit and will invalidate the manufacturer's warranty.

## Cleaning the unit

The powder coat finish can be cleaned with a damp cloth and non-aggressive detergent, do not use an abrasive cleaning product as this will damage the finish.

The cooling inlets and outlets should be cleaned once a year to prevent build-up of dust and overheating of the unit.

## Filter Information

A log of filter changes should be maintained by the user. The filters require attention when the display shows the configuration shown on the next page or when the extractor no longer removes fume efficiently.

All filters are tested to EN1822. A certificate of conformity for each filter is available on request.

It is recommended that a spare set of filters are kept on site to avoid prolonged unit unavailability. Part numbers for replacement filters can be found on the filters fitted in your system.

To prevent overheating, units should not be run with a blocked filter condition, or with dust obstruction of Inlets / Outlets.

## Fire Risk Warning

In the very rare event that a burning ember or spark is drawn into the fume extraction unit, it may be possible that the filters will ignite.

Whilst any resultant fire would typically be retained within the fume extraction unit, the damage to the extractor could be significant.

It is therefore essential to minimise the possibility of this occurring by undertaking an appropriate Risk assessment to determine:-

- a). Whether additional fire protection equipment should be installed.
- b). Appropriate maintenance procedures to prevent the risk of build-up of debris which could potentially combust.

This unit should not be used on processes where sparks could occur, with explosive dusts and gases, or with particulates which can be pyrophoric (can spontaneously ignite), without implementation of additional precautions

It is essential that nozzles or other extraction/ fume capture devices and hoses/pipework are cleaned regularly to prevent the build-up of potentially ignitable debris

# Maintenance

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### Filter Replacement

During use, the AD Base 1 Oracle system will indicate how full its filters are through green, amber and red LEDs. Green meaning that the system has no problems, amber warning the user that a filter will need replacing soon.

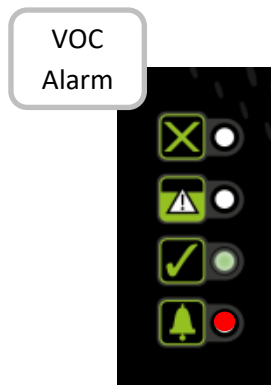
The Combined or the Pre filters need replacing when the LED to the right of the 'X' Icon will glow red as shown below.



To remove and replace the Pre filter follow the procedure detailed below.

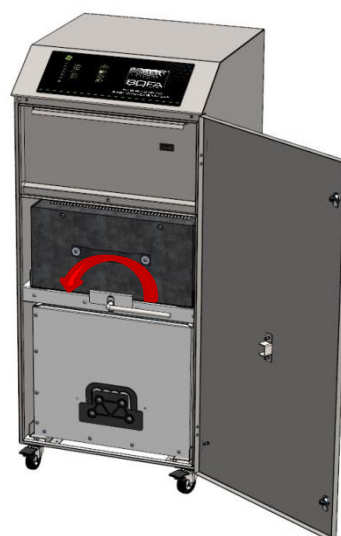
1. Isolate the electrical supply to the extractor
2. Undo the catches on the front of the unit and open the door.
3. The Pre filter is the lower of the 2 filters (refer to section 1 for filter location) using the handle on the front of the filter, pull it out of the unit.
4. Once removed it is recommend that the used filters are bagged and sealed.
5. Slide the new filter into position making sure it is pushed all the way in and is located correctly on the spigot in the back of the unit.
6. Close the door and fasten the 2 latches.

If the VOC (Volatile Organic Compound) alarm option is installed in your Base 1 Oracle system, the extractor will monitor and detect the level of VOC particles in the air. If the VOC level rises above a pre-set level then the LED to the right of the bell symbol will glow red. This requires the replacement of the combined filter



To remove and replace the combined filter follow the procedure detailed below.

1. Isolate the electrical supply to the extractor
2. Undo the catches on the front of the unit and open the door.
3. The Combined filter is the higher of the 2 filters (refer to section 1 for filter location) rotate the lever below the filter through 180° to lower the combined filter.
4. Using the handle on the front of the filter, pull it out of the unit being careful to support it as it comes free as it is heavy.
5. Once removed it is recommend that the used filters are bagged and sealed.
6. Slide the new filter into position making sure it is pushed in all the way.
7. Rotate the lever back through 180° to raise the filter into position.
8. Close the door and fasten the 2 latches
9. Reconnect the power supply



**Note: The filter MUST be fitted when the extractor is in use.**

# Replacement Parts



## Consumable Spares

The AD Oracle Autoflow extraction system contains a pre filter and a combined filter. These should be replaced when instructed to do so by the Oracle system (see section 6 for replacing the filters)

To maintain performance it is important that the filters are replaced with identical BOFA filters. To re-order please refer to the Filter number printed on the filter installed in your extraction unit.

## Maintenance Protocol

Users can record changes in filter change intervals on the table below.

Unit Serial Number:	
Pre Filter	
Date	Engineer

Unit Serial Number:	
Combined Filter	
Date	Engineer

## Filter disposal

The filters are manufactured from non-toxic materials. Filters are not re-usable, cleaning used filters is not recommended. The method of disposal of the used filters depends on the material deposited on them.

For your guidance

Deposit	EWC Listing*	Comment
Non Hazardous	15 02 03	Can be disposed of as non-hazardous waste.
Hazardous	15 02 02M	The type of hazard needs to be identified and the associated risks defined. The thresholds for these risks can then be compared with the amount of material in the filters to see if they fall into the hazardous category, if so, the filters will need to be disposed of in line with the local/national regulations.

\*European Waste Catalogue

# System Specifications



## Unit: AD Oracle Autoflow Side Feed

Capacity: 380m<sup>3</sup>/h 223cfm

Weight: 54.5Kg (120lbs)

Motor: Centrifugal Fan

Output: 1100w

Electrical supply: 115-230V

Hertz: 50/60Hz

Full Load Current: 12.5A

Noise Level: Below 60dB (A)

(at typical operating speed)

### Size:

	Metric (mm)	Imperial (inches)
Height	818	32.2
Depth	552	21.7
Width	476	18.7

### Filters:

Filter Type	Surface area	Efficiency
Combined Filter	0.13m <sup>2</sup>	99.997@ 0.3micron

### Environmental operating range:

Temperature: +5°C to + 40°C

Humidity: Max 80% RH up to 31°C

Max 50% RH at 40°C

## **. Contact Information**

### **BOFA Headquarters**

21-22 Balena Close  
Creekmoor industrial Estate  
Poole  
Dorset  
BH17 7DX  
UK  
**Phone: +44 (0) 1202 699444**

### **BOFA Americas**

303 S.Madison Street  
Staunton  
Illinois  
62088  
USA  
**Phone: 001 (618) 205-5007**