

AD BASE 1
AD BASE 2
AD BASE 3
AD BASE Z
AD BASE C180

ADVANTAGE BASE
FUME EXTRACTION UNITS

OPERATIONAL INSTRUCTIONS

CE

TABLE OF CONTENTS

SAFETY INSTRUCTIONS	3
<i>Symbols used</i>	3
<i>Electrical safety</i>	3
<i>Dangers to eyes, breathing and skin</i>	3
<i>Warning and Information Labels</i>	4
INSTALLATION	5
<i>Introduction</i>	5
<i>Cabinets</i>	5
<i>Extractor Overview</i>	5
<i>AD Base C180 – for the GCC C180 laser engraver</i>	6
<i>AD Base 1</i>	7
<i>AD Base 2</i>	8
<i>AD Base Z for the Epilog Zing laser engraver and AD Base 3</i>	9
<i>Extractor Installation Procedure</i>	10
<i>Optional Feature Considerations:</i>	10
<i>Filter blocked/System failure signal</i>	11
<i>Remote stop/start</i>	11
<i>Remote Stop/ Start Over-Ride</i>	11
<i>Compressor</i>	12
<i>General Safety Requirements</i>	12
OPERATION	13
<i>Manual operation</i>	13
<i>Digital flow control</i>	14
<i>Gas Filter Change LED (VOC monitoring)</i>	14
<i>Optional features:</i>	15
<i>Setting the Airflow</i>	15
<i>Compressor unit</i>	15
MAINTENANCE	16
<i>Cleaning Unit</i>	16
<i>Replacing Filters</i>	16
<i>Filter replacement indication</i>	17
<i>Filter replacement Base 1</i>	17
<i>Bag replacement</i>	17
<i>HEPA/Gas filter replacement</i>	18
<i>Filter Replacement C180</i>	18
<i>Bag replacement</i>	18
<i>Combined Filter Replacement</i>	18
<i>Filter Replacement Base 2</i>	19
<i>Bag replacement</i>	19
<i>Pre filter replacement</i>	19
<i>HEPA/Gas filter replacement</i>	19
<i>Filter Replacement Base Z and Base 3</i>	20
<i>Pre filter replacement</i>	20
<i>Combined filter replacement</i>	20
<i>Consumable Spares</i>	21
<i>Maintenance Protocol</i>	21
<i>Fuses</i>	22
<i>Filter Disposal</i>	22
TROUBLE SHOOTING	23
APPENDIX	24
<i>System Specifications – AD Base C180</i>	24
<i>System Specifications – AD Base 1</i>	25
<i>System Specifications – AD Base 2</i>	26
<i>System Specifications – AD Base 3</i>	27
<i>System Specifications – AD Base Z</i>	28

SAFETY INSTRUCTIONS

Symbols used



Danger Refers to an immediately impending danger. If the danger is not avoided, it could result in death or severe (crippling) injury.



Warning Refers to a possibly dangerous situation. If it is not avoided, it could result in death or severe injury.

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

Important Refers to handling tips and other particularly useful information. This does not signify a dangerous or harmful situation.

Electrical safety

The ADVANTAGE range of extraction units are designed to meet the safety requirements of the Low Voltage Directive 2006/95/EC (previously numbered 73/23/EEC)



Warning During works with the pump/motor housing open, live, 230/115 volt components are accessible. Make sure that 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 panel
2. Use only as described in the manual
3. Connect to a properly grounded outlet

Dangers to eyes, breathing and skin

Once used, the filters in the ADVANTAGE range of extraction units 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 lasered, the particulate may be an irritant to the skin.

Caution: When changing used filters always wear mask, safety glasses and gloves.

Please note the media in the gas filter fitted in this unit 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.

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

Warning and Information Labels

Label/Symbol	Position
 <p>WARNING GOGGLES, GLOVES & MASK MUST BE WORN WHEN CHANGING FILTERS</p> <p>Please note the media in the gas filter fitted in this unit is capable of absorbing 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.</p>	Door of unit
 <p>Danger Disconnect the mains supply before removing this cover</p>	Pump/motor access panel & door
 <p>DO NOT COVER</p>	Above louvers
 <p>ADVANTAGE MODEL. AD BASE Z SERIAL No. XX/XX/ADBASE-XXX 230v 50Hz 2.70A</p> <p>WARNING THIS EQUIPMENT MUST BE EARTHED YEAR OF MANUFACTURE XX/XXXX</p> <p>SUPPLIED WITH THE FOLLOWING FILTERS Combined Filter - A1030050 Pre Filter - A1030045</p> <p>CE</p> <p>BOFA INTERNATIONAL LTD</p> <p>BOFA International Ltd Poole, Dorset, UK, BH17 7DX Tel: - + 44 (0)1202 699444 www.laserfumeextraction.com</p>	Next to power cables on the extractor

INSTALLATION

Introduction

When a component is laser marked an amount of the surface of the substance is thermally decomposed, “burnt off”. This thermal decomposition comprises a mixture of particulate and gaseous compounds. The heat energy causes the gases and surrounding air to quickly expand moving away from the surface at high velocity entraining any particulate with the gases. This is the fume.

There are two main reasons for capturing the fume:

- 1 Operational – if ignored the fume can settle on the laser optics causing damage to the lens and impairing the quality of the marking.
- 2 Health and Safety – The particulate generated from most materials is sub micron size which is a health hazard if inhaled and some materials give off harmful gases which again operators need protecting from.

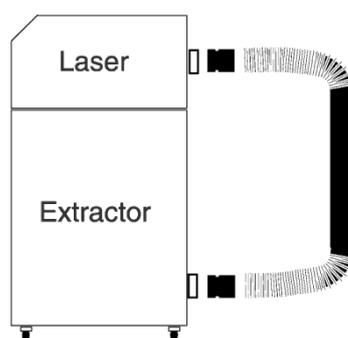
The ADVANTAGE range of units are suitable for extracting the fume from laser marking applications, capturing it in the multistage filter system and returning the associated clean air back into the workplace.

Cabinets

(See fig. 1) Cabinets normally have a 75 or 100mm spigot for fume extraction. For best performance use the same diameter hose as the spigot and reduce at extractor if necessary. Keep the hose run as short as possible.

Extraction units should be sited in a well ventilated room.

Fig. 1



Extractor Overview

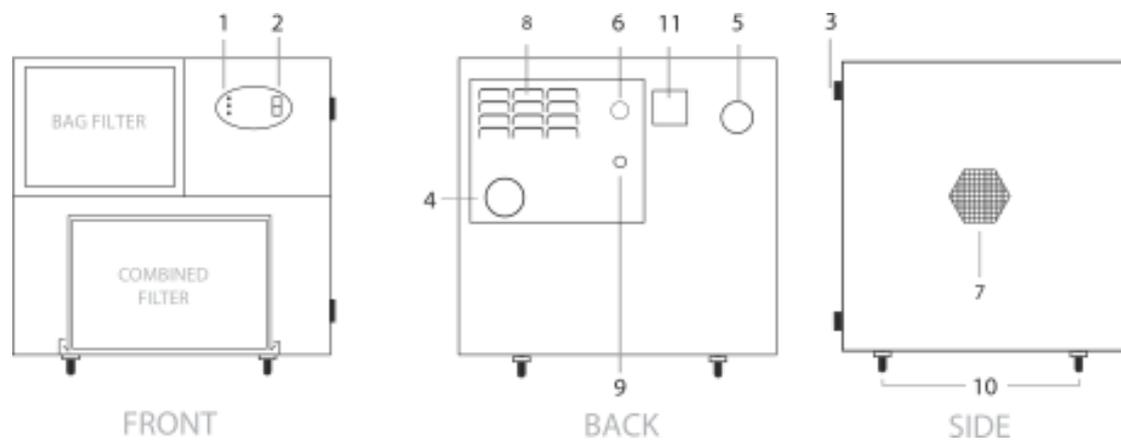
The ADVANTAGE range of extraction units provide extraction and filtration of the fume generated by laser marking, cutting, etching or engraving. The units are of robust design and feature ease of use with minimal maintenance. They are designed to allow specified laser marking equipments to fit onto the top of the extractor. The main components of these units are shown below.

AD Base C180 – for the GCC C180 laser engraver

The main components of the C180 are shown in Fig.2

Fig 2 - C180 layout

1. Unit / Filter Condition Display
2. On / Off Switch
3. Door Hinge
4. Extracted Air Outlet
5. Hose Inlet Connection
6. Power Cable
7. Motor Cooling Inlet
8. Motor Cooling Outlet
9. Compressed Air Outlet
10. Castors
11. Machine Identification

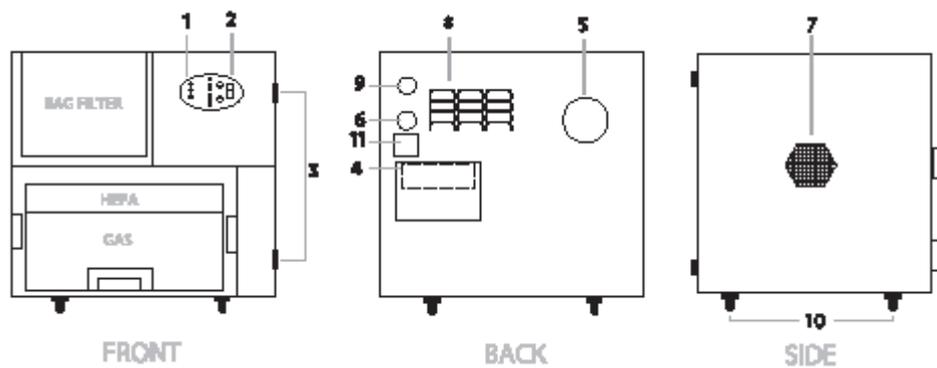


AD Base 1

The main components of the AD Base 1 are shown in Fig. 3.

Fig 3 - Base 1 Layout

1. Unit / Filter Condition Display
2. On / Off Switch
3. Door Hinge
4. Extracted Air Outlet
5. Hose Inlet Connection
6. Power Cable
7. Motor Cooling Inlet
8. Motor Cooling Outlet
9. Compressed Air Outlet
10. Castors
11. Machine Identification

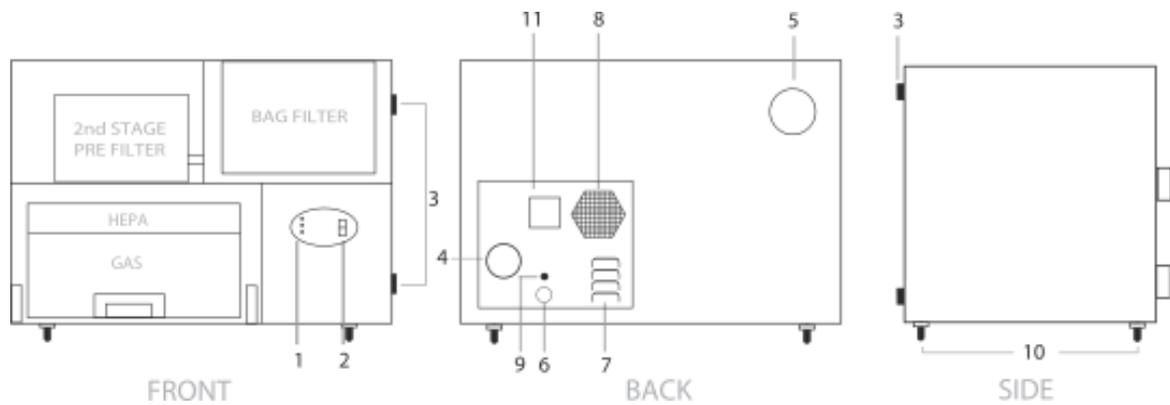


AD Base 2

The main components of the AD Base 2 are shown in Fig. 4.

Fig 4 - Base 2 Layout

1. Unit / Filter Condition Display
2. On / Off Switch
3. Door Hinge
4. Extracted Air Outlet
5. Hose Inlet Connection
6. Power Cable
7. Motor Cooling Outlet
8. Motor Cooling Inlet
9. Compressed Air Outlet
10. Castors
11. Machine Identification

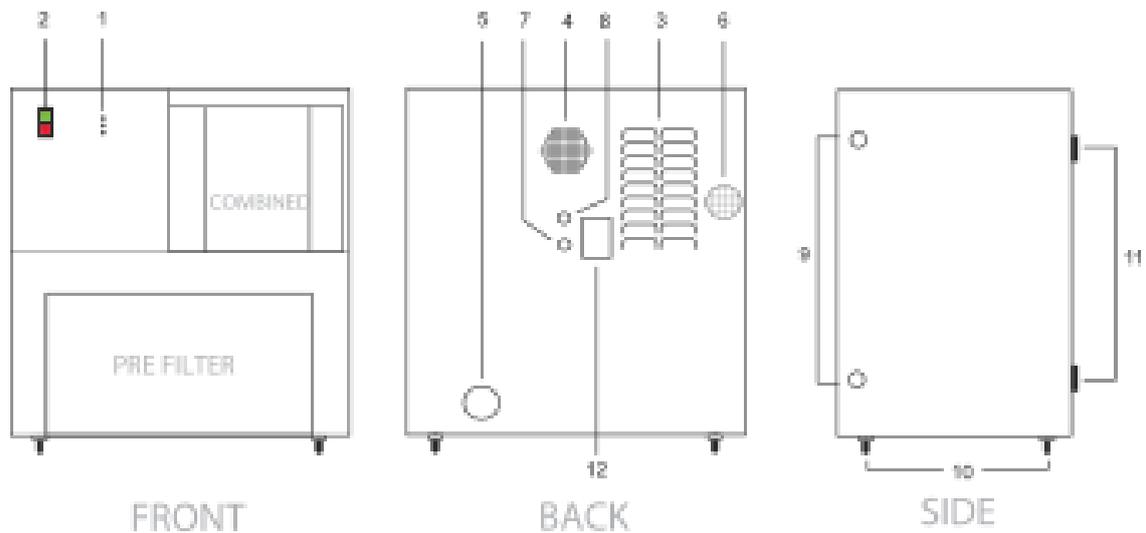


AD Base Z for the Epilog Zing laser engraver and AD Base 3

The main components of the AD Base 3 and Base Z are shown in Fig. 5.

Fig 5 - Base Z and Base 3 Layout

1. Unit/Filter Condition Display
2. On/Off Switch
3. Motor Cooling Outlet
4. Cooling Air Inlet
5. Hose Inlet Connection
6. Exhaust Outlet
7. Power cable
8. Compressed Air Outlet
9. Filter Compartment Door Latches
10. Castors
11. Door Hinges
12. Machine Identification



Extractor Installation Procedure

Caution

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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 unit from its packaging. The unit should be installed in a well ventilated room.

Caution

Due to the weight involved the extractor unit should only be lifted using suitable lifting equipment and with regard to appropriate safety precautions. (See Appendix for product weight details).

2. Ensure that a 0.5m space is available around any louvered areas of the unit to ensure adequate air flow. Lock the two braked castors, if fitted.

Caution

Do not block or cover any louvers or cooling holes on the unit as this severely restricts air flow and may cause damage to the unit.

Caution

Under no circumstances should the exhaust outlet/s be covered as this will restrict the airflow and cause overheating.

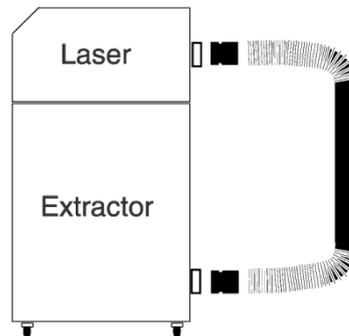
3. Check filters are located in their correct position and carefully replace lid/close door.

4. Place the laser cabinet on top of the AD Base unit. Ensure that the feet of the engraver fit into the recesses in the top of the extractor.

5. Connect flexible extraction ducting between the Laser outlet and the inlet on the extractor. For best performance use the same diameter hose as the laser cabinet spigot and reduce at extractor if necessary. Keep the hose run as short as possible. (See Fig .6)

Use hose clips on the connectors at each end of the duct to ensure a tight fixing.

Fig 6



Optional Feature Considerations:

6. If fitted, the following features need to be considered when installing the unit:

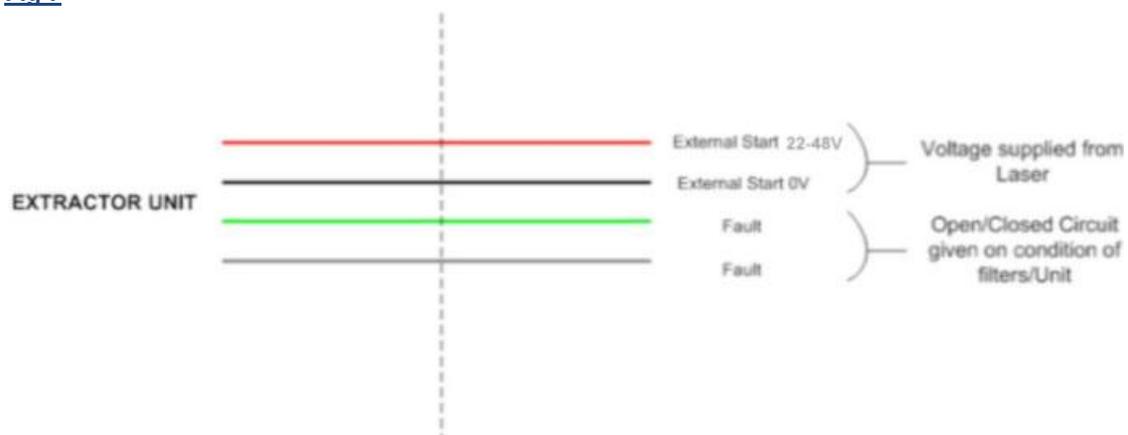
Important

If the ADVANTAGE unit has an exhaust air outlet spigot fitted, the exhausted air can be routed outside of the building if required. It is important to keep any ducting used to do so to a minimum, in order to reduce back pressure within the system.

Filter blocked/System failure signal. With this option the extraction unit will have been fitted with a pressure transducer to monitor the condition of the filters and to indicate the extractor is running. In addition to controlling the LED's on the front of the unit, this signal is available via the green and white cores of the control cable that exits the cabinet next to the power cable. The signal is a "volt free" contact, i.e. a closed circuit will exist between the green and white wires when the filter condition is good and the unit is running. This will change to an open circuit on filter blockage or system failure. This feature should only be used on control voltage circuits. The signal can be connected to the laser or alternatively to operate a beacon, siren or warning device. Open circuit condition of this circuit will not directly stop the extractor motor.

Remote stop/start. If this facility is installed it enables the extractor unit to be turned on and off by a signal from the laser. The red and black cores of the control cable need to be connected to a 22-48v ac or dc supply, which when applied will start the unit and when switched off will stop the unit. However the mains power switch must be in the "on" position for the signal to be effective. (Unless 0V stop/start option was specified when ordered, for this connect the Red & Black cores together to start the extractor.)

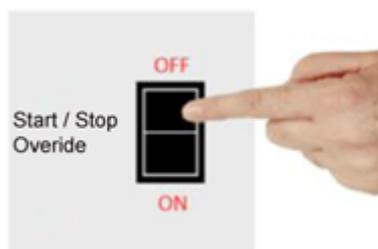
[Fig 7](#)



Remote Stop/ Start Over-Ride

If fitted, remote operation can be overridden by using the override switch, which is mounted inside the unit (see fig. 8).

[Fig 8](#)



Compressor

If the optional compressor is fitted, connect the compressed air line between the laser and the extractor. Ensure that any water trap/ filter unit in use is situated nearest to the laser (and not the extractor). The arrows (indicating air flow) on the side of the water trap/filter should be pointing in the direction of the airflow (i.e. air into the laser Unit).

Electrical supply connection

Check the integrity of the electrical power cable.

Connect the power cable to an isolated electrical supply. The mains socket outlet should be installed near the equipment and be easily accessible. The cable run to the machine should be arranged so as not to create a trip hazard.

Caution:

Check that the mains input at the isolated supply is the same as the voltage Supply detail on the Serial Number label (**115 or 230v 50/60Hz**) before plugging the extractor unit in.

General Safety Requirements

The mains socket outlet should be installed near the equipment and be easily accessible.

Caution

Do not block or cover the cooling vents on the unit, as this severely restricts airflow and may cause damage to the unit. (This may be located on the base of the unit).

Caution

This unit is over 18Kgs in weight and should only be lifted with suitable lifting equipment.

Caution

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

Read all instructions in this manual before using this extractor.



Warning Mains voltage. Dangerous voltages exist in this equipment. Ensure all covers are fitted before operating this equipment.

The unit is now ready for use.

OPERATION

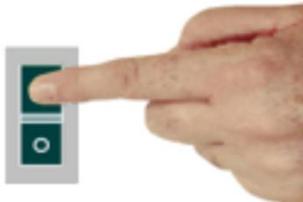
Manual operation

Stainless steel ADVANTAGE units are turned on by depressing the green button on the front of the extractor and turned off by depressing the red button. (See fig 9). Powder coated ADVANTAGE units are turned on and off by means of a green, illuminated rocker switch on the front of the unit. (See Fig 10).

Fig 9 Stainless Steel Units



Fig 10 Powder coated Units



Note: In order to help ensure long term reliability of the fan unit, it is recommended that a 90 second delay period (minimum) is observed between stopping and restarting the extractor to prevent possible damage to electronic components within the fan.

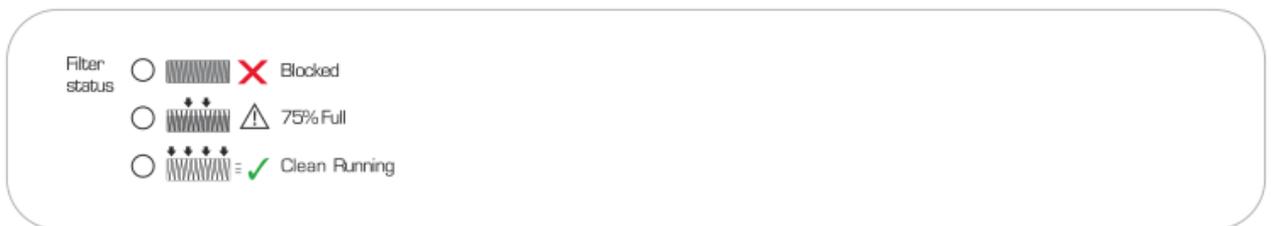
Filter condition and System failure signal - indicators

The LED's on the front panel (see table and fig 11 below) indicate the following conditions

LED'S	SHOWING	INDICATES
	Green Only	Unit is running - Filters are usable
	Green & Amber	Pre or Combined Filter 75% blocked
	Green, Amber & Red	Pre or Combined Filter Blocked and in need of replacing
	Green, Amber & Red flashing	Fault with extractor. This condition may occur for a few seconds on start up
	Red Alarm Light	Only used with optional extra Gas Filter Change LED

Filter change procedures are explained in Section 5 'Maintenance'.

Fig 11 Front Panel – NO VOC MONITOR FITTED



Digital flow control

If this option has been fitted, the airflow can be increased or decreased by pressing the “+” or “-“buttons on the front or back of the unit. (See fig 12 below).

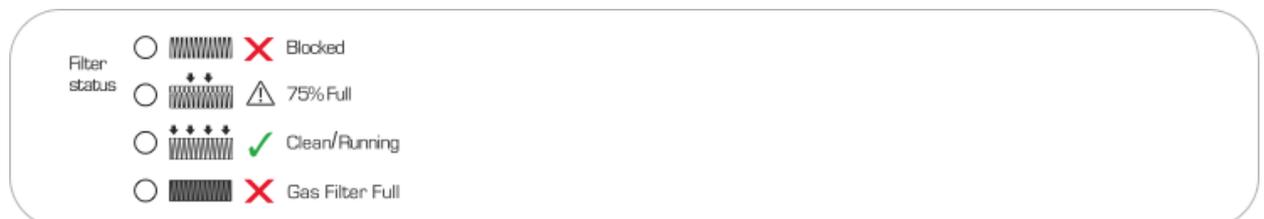
Fig 12 - Digital speed control



Gas Filter Change LED (VOC monitoring)

Units equipped with a VOC sensor detect the level of Volatile Organic Compounds in the exhausted air. If their presence exceeds a preset level the Alarm LED on the front panel will illuminate. This indicates that the gas filter or the gas portion of the combined filter is saturated and the filter needs replacing. (See fig 13). The Maintenance section describes the filter change procedure.

Fig 13 - Gas filter full indication - VOC monitor

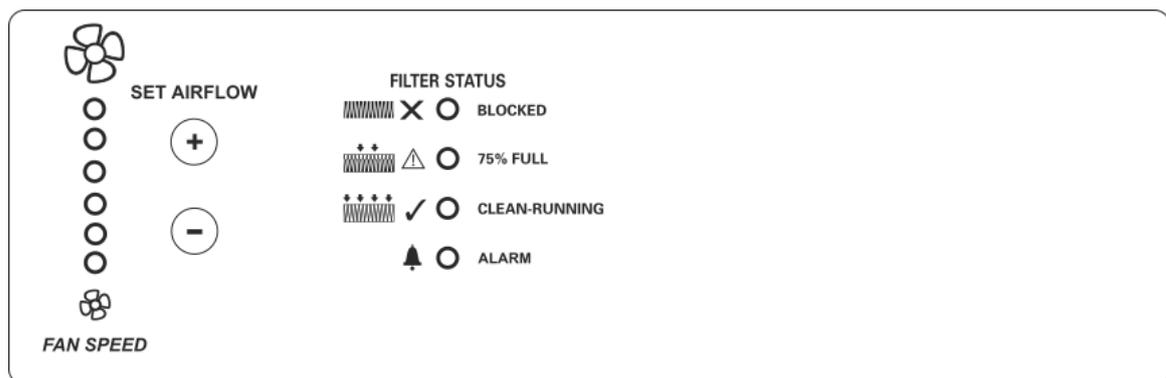


Optional features:

Setting the Airflow

The unit may feature closed loop automatic flow control. This enables you to set the required airflow rate. When the filters start to block, the blowers in the extractor will increase in speed compensating for any loss in performance. The extractor must be fully installed, with all pipe work connected before setting the airflow.

To set the airflow on your extractor, hold down the Up (+) and Down (-) arrows on the front panel for 5 seconds. (See fig 14) 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 6 blue LED's on the 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.



[Fig 14](#)

Compressor unit

The optional compressor is used to supply cooling air to the laser. The compressor is turned on or off with via the extractor on/off switch. The compressor supplies the laser head with positive air, which is 'oil less' and 'waterless'.

MAINTENANCE

Maintenance UK

It is a legal requirement, under regulation 9 of the COSHH regulations, that all local exhaust ventilation systems are visually inspected on a weekly basis, where possible and undergo a thorough inspection and test on an annual basis.

COSHH requires the annual inspection and testing to be carried out by a competent person with specific documentation of the results held in a log book. Bofa can provide this service, our inspectors are BOHS P601 qualified, and copies of the required initial information and forms are included in the Log book supplied with the extractor. Additionally the log book contains a form detailing the weekly inspection requirements and log for recording the results.

Maintenance General

User maintenance is limited to cleaning the unit and replacing the filters with new. Only BOFA International 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 Unit

The powder coated 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 unit.

Replacing Filters

The filter package needs attention when the filter change signal is alarmed and/or the green amber and red LED's on the unit are illuminated or, for units with no filter condition indication, when the unit no longer removes the fume efficiently.

A log of filter changes should be maintained by the user.

All filters are tested to BS3928. A certificate on 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. Alternatively, refer to the consumable spares table.

Caution

To prevent overheating, units should not be run with a blocked filter condition, or with dust obstruction of inlets or outlets.

Caution: When changing used filters always wear mask, safety glasses and gloves.

Filter replacement indication

The first few filter changes should only apply to the pre-filter. The indication that the HEPA filter (or HEPA portion of combined filter) needs replacing is when the green amber and red LED's do not go off after the pre filter has been changed.

If the VOC monitor option is fitted, the requirement for a Gas filter or combined filter change is indicated by illumination of the Gas filter alarm light on the front panel.

Please note that the carbon media within the Gas filter is hygroscopic and will absorb moisture from the atmosphere. This is why these filters should be changed every twelve months regardless.

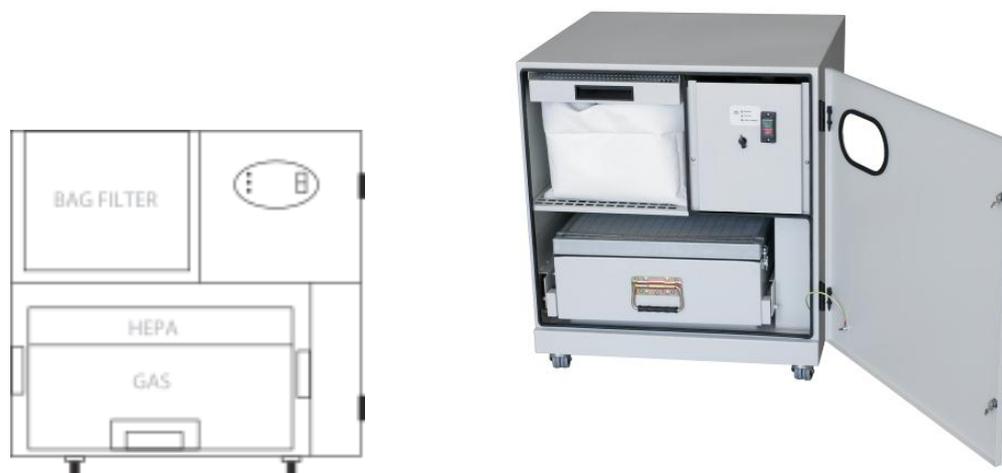
Filter replacement Base 1

Bag replacement

Isolate the electrical supply to the extractor

1. Undo the door knobs by turning through 90°, and open the door.
2. The bag filter is the highest of the filters (See fig 15)
3. Slide the pre filter tray outwards from the extractor.
4. Remove the two locating lugs by the bag filter inlet, undo the two Velcro straps and separate the bag filter from the tray.
5. Replace with new bag filter ensuring Velcro straps are secure.
6. Press the locating lugs into place at the bag filter inlet, slide the tray into place.
7. Close door fasten door knobs and reconnect the power supply.

Fig 15 - Base 1 filter layout



HEPA/Gas filter replacement

Isolate the electrical supply to the extractor.

1. Undo the door catches by turning through 90° and open the door.
2. The HEPA & Gas filters are the lower of the three filters (see fig.15).
3. Slide the filters out of the unit on the Easi Glide runners holding tightly to the handle on the Easi Glide drawer.
4. The filters can now be lifted away from the extractor.
5. You can now separate the two filters by un-fastening the four clips on the side of the filter.
6. Replace the HEPA or Gas element and fasten back together. Now slide the new filter/s back into position on the filter glide runners.
7. Close the door, fasten the door catches and reconnect the power supply.

Filter Replacement C180

Bag replacement

Isolate the electrical supply to the extractor

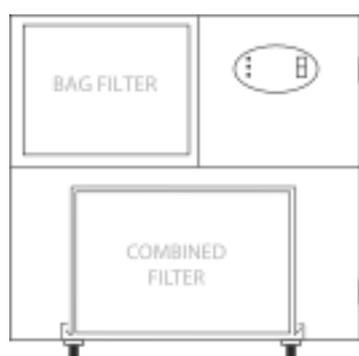
1. Undo the door knobs by turning through 90°, and open the door.
2. The bag filter is the highest of the filters (See fig 16) Slide the pre filter tray outwards from the extractor.
3. Remove the two locating lugs by the bag filter inlet, undo the two Velcro straps and separate the bag filter from the tray.
4. Replace with new bag filter ensuring Velcro straps are secure.
5. Press the locating lugs into place at the bag filter inlet, slide the tray into place. Close door fasten door knobs and reconnect the power supply.

Combined Filter Replacement

Isolate the electrical supply to the extractor.

1. Undo the door latches by turning through 90° and open the door.
2. The Combined filter is the lower of the two filters (see Fig 16).
3. Undo the clips either side of the filter, carefully remove the combined filter from the unit.
4. Replace with new and secure using the clips.
5. Close the door and turn door latches.
6. Reconnect power supply.

Fig 16 - Base C180 filter layout



Filter Replacement Base 2

Bag replacement

Isolate the electrical supply to the extractor

1. Undo the door knobs by turning through 90°, and open the door.
2. The bag filter is the highest of the filters (See fig 17.)
3. Slide the pre filter tray outwards from the extractor.
4. Remove the two locating lugs by the bag filter inlet, undo the two Velcro straps and separate the bag filter from the tray.
5. Replace with new bag filter ensuring Velcro straps are secure.
6. Press the locating lugs into place at the bag filter inlet, slide the tray into place.
7. Close door fasten door knobs and reconnect the power supply.

Pre filter replacement

Isolate the electrical supply to the extractor.

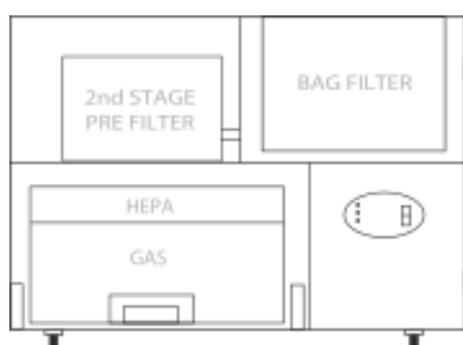
1. Undo the knobs by turning through 90° and open the door.
2. The pre filter is the top left filter (see fig 17)
3. Slide the pre filter to the left until the spigot is clear of the filter.
4. Slide the filter outwards from the unit.
5. Replace with new and slide into the unit and onto the spigot, close door, fasten catches and reconnect power supply.

HEPA/Gas filter replacement

Isolate the electrical supply to the extractor.

1. Undo the door catches by turning through 90° and open the door.
2. The HEPA & Gas filters are the lower filters (see fig.17).
3. Slide the filters out of the unit on the Easi Glide runners holding tightly to the handle on the Easi Glide drawer.
4. The filters can now be lifted away from the extractor.
5. You can now separate the two filters by un-fastening the four clips on the side of the filter.
6. Replace the HEPA or Gas element and fasten back together. Now slide the new filter/s back into position on the filter glide runners.
7. Close the door, fasten the door catches and reconnect the power supply.

[Fig 17 - Base 2 layout](#)



Filter Replacement Base Z and Base 3

Pre filter replacement

Isolate the electrical supply to the extractor.

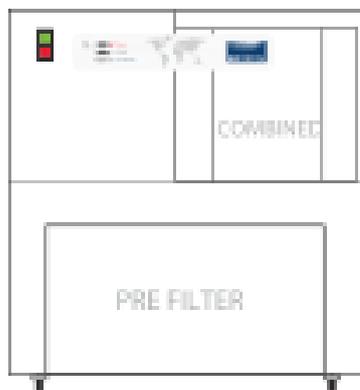
1. Undo the knobs by turning through 90° and open the door.
2. The pre filter is the bottom left filter (see fig 18)
3. Slide the pre filter to the left until the spigot is clear of the filter.
4. Slide the filter to the left until the spigot is clear of the filter, then slide the filter outwards from the unit.
5. Replace with new and slide into the unit and onto the spigot, close door, fasten catches and reconnect power supply.

Combined filter replacement

Isolate the electrical supply to the extractor.

1. Undo the latches by turning through 90° and open the door.
2. The combined filter is the upper of the two filters (see Fig 18).
3. Slide the saturated filter out of the unit slide a new filter back into position.
4. Close the door, fasten the latches and reconnect the power supply.

[Fig 18 - AD Base Z and Base 3](#)



Fuses

The following table gives details of the internal fuses in the AD Base units.

<u>Unit</u>	<u>Item Protected</u>	<u>Fuse Rating A</u>	<u>FLC A</u>
BASE 1	12v Power Pack	1	< 0.1
BASE 1	Turbine Fan	16A (Switch)	12.5
BASE 1	Compressor (Option)	3.15	2.2
BASE 2	12v Power Pack	1A	> 0.1
BASE 2	Centrifugal Blower	10A	8.5
BASE 2	Compressor (Option)	3.15A	2.2
BASE 2	Cooling fan (Option)	1A	> 0.1
C180	12v Power Pack	1	< 0.1
C180	Turbine Fan (230v)	2	0.9
C180	Compressor (Option)	3.15	2.2
C180	Cooling fan (Option)	1	<0.1
BASE 3 / Z	12v Power Pack	1	<0.1
BASE 3 / Z	Turbine Fan (230v)	2	0.9
BASE 3 / Z	Compressor (Option)	3.15	2.2

Filter Disposal

Pre and combined filters are manufactured from non-toxic materials.
 Filters are not re-usable, cleaning used filters is not recommended.
 Disposal of the used filters depends on the material deposited on them.
 See the following table:

<u>Deposit</u>	<u>EWC listing*</u>	<u>Comment</u>
Non Hazardous	15 02 03	Can be disposed of as non hazardous waste.
Hazardous	15 02 02 M	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 inline with the local/national regulations.

* European Waste Catalogue

TROUBLE SHOOTING

In the unlikely event of a problem with your Advantage extractor please contact your local representative.

OR

BOFA International Ltd

21-22 Balena Close
Creekmoor Industrial Estate,
Poole, Dorset BH17 7DX, UK

Tel: +44 (0)1202 699444

Fax: +44 (0)1202 699446

Email: technical@bofa.co.uk

Website: www.bofa.co.uk

OR

Bofa Americas, Inc

Bofa Americas Inc.
303 S. Madison Street
Staunton, Illinois 62088
USA

Tel: (618)-635-4465

Fax: (866) 707-2632 (BOFA)

Email: info@bofaamericas.com

Website: www.bofaamericas.com

APPENDIX

System Specifications – AD Base C180

Unit:	Base C180 unit
Capacity	200m ³ /hr (118cfm)
Size	Height 795mm (31.3") Depth 675mm (26.6") Width 720mm (28.4")
Weight	70 kg (155lbs)
Exhauster	Centrifugal fan
Output	0.135kw
Electrical Supply	230v 1ph 50/60hz (110v 1ph 50/60hz)
Noise Level	Below 63db
Filters	Pre Filter: Surface area 2.2m ² Efficiency F6 85% @ 0.8 micron HEPA Filter: Efficiency H13 99.997% @ 0.3 micron Active Carbon 10kgs

APPENDIX

System Specifications – AD Base 1

Unit:	Base 1 unit	
Capacity	400m ³ /hr (235cfm)	
Size	Height	805mm (31.7")
	Depth	675mm (26.6")
	Width	695mm (27.4")
Weight	86 kg (190lbs)	
Exhauster	Centrifugal fan	
Output	1.1kw	
Electrical Supply	230v 1ph 50/60Hz (110v 1ph 50/60Hz)	
Noise Level	Below 70db	
Filters	Pre Filter	Surface area 2.2m ² Efficiency F6 85% @ 0.8 micron
	HEPA Filter:	Surface area 9.0m ² Efficiency H13 99.997% @ 0.3 micron
		Active Carbon 25kgs

APPENDIX

System Specifications – AD Base 2

Unit:	Base 2
Capacity	400m ³ /hr (235cfm)
Size	Height 770mm (30.3") Depth 560mm (22.0") Width 760mm (30.0")
Weight	95 kg (210lbs)
Exhauster	Centrifugal fan
Output	1.1kw
Electrical Supply	230v 1ph 50Hz
Noise Level	Below 70db
Filters	Bag Filter: Surface area 2.2m ² Efficiency F6 85%
	Pre Filter: Surface area 12m ² Efficiency F8 95% @ 0.8μ
	HEPA Filter: Surface area 9m ² Efficiency H13 99.997% @ 0.3μ
	Gas Filter: Activated Carbon 25.0kg

APPENDIX

System Specifications – AD Base 3

Unit:	Base 3 unit	
Capacity	200m ³ /hr (118cfm)	
Size	Height	765mm (30.1")
	Depth	470mm (18.5")
	Width	680mm (26.8")
Weight	65 kg (145lbs)	
Exhauster	Centrifugal fan	
Output	0.250kw	
Electrical Supply	230v 1ph 50Hz	
Noise Level	Below 60dBa	
Filters	Pre Filter:	Surface area 12m ² Efficiency F8 95% @ 0.8 micron
	Combined Filter:	Surface area 2.2m ² Efficiency H13 99.997% @ 0.3 micron

APPENDIX

System Specifications – AD Base Z

Unit:	Base Z
Capacity	200m ³ /hr (118cfm)
Size	Height 770mm (30.31") Depth 560mm (22.0") Width 760mm (30.0")
Weight	65 kg (145lbs)
Exhauster	Centrifugal fan
Output	0.35 kW
Electrical Supply	230v 1ph 50Hz
Noise Level	Below 60dBa
Filters	Pre Filter: Surface area 12m ² Efficiency F8 95% @ 0.8μ
	HEPA Filter: Efficiency H13 99.997% @ 0.3μ
	GAS FILTER: Activated Carbon 10.0kg