BOFA INTERNATIONAL IS A MULTI-AWARD-WINNING WORLD LEADER IN PORTABLE FUME EXTRACTION AND FILTRATION TECHNOLOGY.

We design, develop and manufacture systems for a wide range of industrial sectors and applications.

Our products ensure operator safety by capturing harmful dust and fumes which are generated during industrial processes while minimising disruption to production.

WHY BOFA

✅ Over 30 years’ experience
✅ Market leader
✅ Unrivalled expertise in fume and dust extraction and filtration
✅ Innovative world-class solutions
✅ High quality, affordable systems
✅ Developed by experts

✅ Dedicated in house capabilities
✅ Offices in the UK, USA and Germany
✅ Global network of distributors
✅ Keeping the world working safely
✅ Continual investment
✅ Environmental policy
✅ A Donaldson company

BOFA is proud to be a Donaldson company. Founded in 1915, Donaldson is a global leader in the filtration industry with sales, manufacturing and distribution locations around the world.
We are recognised as the market leader, delivering great value, high quality products.

Many years of designing and manufacturing fume extraction and filtration systems for a wide range of industries has given BOFA the experience and expertise to ensure that our product solutions are the best available on the market. We have applied our in-depth understanding of industrial processes and applications into the design and manufacture of our products.

The need for fume extraction continues to be inherently linked with health and safety laws and compliance. Within the developed western markets such legislation is well defined and in the main compliance levels are high.

Most encouraging is the growing trend for improved employee welfare and environmental responsibility in regions where historically there has been less regard for either. This is a welcome and significant step change for our planet, and one that at the macro level will drive an even greater demand for fume extraction.
EXPERTISE AND INNOVATION

Our dedicated team has a wealth of knowledge and unrivalled expertise within our field which is established and trusted by all sizes of business, from global market leaders to niche producers in a wide cross section of industries.

Innovation is at the heart of everything we do, meaning we develop the most technically advanced products on the market. But we also have the flexibility to develop bespoke solutions to suit our customers’ requirements. Our programme of ongoing investment in research and development allows us to continuously improve products and pioneer new cutting-edge technologies, bringing the best and latest developments to our portfolio.

QUALITY MANUFACTURING

Our philosophy is to maintain control of supply and quality standards throughout the entire manufacturing process of our products. We have an extensive range of proven fume extraction solutions to satisfy a broad range of applications - from single user systems to units that pack a heavyweight punch with unsurpassed filter capacity, high performance and everything inbetween. All made to the highest international manufacturing standards.
AWARD WINNING TECHNOLOGY

BOFA is awarded the Queen’s Award for Enterprise 2017 for Innovation!

In 2017 we were awarded the Queen’s Award for Enterprise: Innovation for our revolutionary Intelligent (iQ) Operating System, which is transforming the way that organisations around the world are able to protect the health of employees and improve production processes. See page 9 for more information.

Our Queen’s Award for International Trade in 2012, recognises that over 90% of our products are now exported overseas.

EXPERT TRAINING DESIGNED FOR YOU

Free training modules delivered by our experts direct to you, to help you stay up to date. We've designed our modules so they can be delivered in a way convenient to you - either online or face to face - in a simple and effective format to ensure you get the most out of the time you invest in training. It's all part of the exceptional support and experience we offer.

This training is for anyone who comes into contact with fume extraction or is responsible for health and safety in the workplace – whether it's researching and determining the requirements in your workplace; designing new products that need appropriate extraction or selling products into the market:

- Sales and marketing
- Technical
- Product management
- Service/ installation

Find out more: bofainternational.com/bofa-academy
iQ2 builds on this, adding significantly to the list of seller and user benefits. It combines field proven iQ reliability with a range of new and highly advanced feature enhancements, including Fieldbus connectivity; two-way communication and control; and SMART filter technology.

INDUSTRY 4.0

Driven by Industry 4.0, iQ2 meets tomorrow’s needs, today, keeping you and your customers ahead in the market.

It incorporates Fieldbus connectivity, making it easy to integrate into existing factory systems and the intuitive interface makes it simple to use. By connecting machines, businesses can create intelligent networks along the entire value chain that can control each other autonomously. Remote monitoring and internal control can be achieved thanks to the unique two-way data streaming capabilities. Systems self-analyse to enable predictability, providing management with more insight on the status of the factory and allowing interventions, such as filter changes, to take place at the best possible time – achieving just-in time maintenance and near zero downtime.
All this combines to deliver an enhanced user experience:

• Built on proven BOFA iQ technology
• Fieldbus connectivity
• Two-way communication and control
• Hi-resolution colour touch screen display
• Customisable – including multi language navigation and bespoke branding
• Effective filter monitoring, providing accurate filter life prediction
• Live remote monitoring for greater control
• Real-time capability to collect and analyse data
• Fully configurable alarms and warnings
• Advanced reporting tools for better support
• SMART filter technology as an optional extra
• Simple software updates, making it futureproof

SMART FILTER TECHNOLOGY

Improve filter performance. Incorporating proven RFID technology, each SMART filter has a uniquely coded non-removable tag, allowing the iQ2 operating system to establish authenticity and suitability of the filter being used. SMART filter technology provides the end user with the added safety assurance that they are using a proprietary filter of the right type for their application and chosen extraction unit.

SMART filter technology is an optional extra.

For assured filter performance:
• iQ2 system integration
• Anti-tamper RFID technology
• Correct filter detection
• Enhanced data collection
• Remote filter monitoring

For enhanced filter experience:
• Legislative compliance
• Reduced cost of ownership
• Superior filter performance
• Optimised running time
• Planned maintenance scheduling

For trouble-free filter ownership:
• Ensures the highest yield
• Protected performance
• Genuine filter programme
• Remote filter management

See SMART filter technology featured on our AD Oracle iQ2 on page 23.
Our new Oracle 2 brings a host of additional benefits. With a fresh new look, it has new features designed to meet the increased performance and standards of today’s manufacturing environment:

• CleanChange - our new filter housing facilitates cleaner filter changes, leaving you with a cleaner unit and working environment, coupled with reduced contamination when swapping out filters
• Larger filters - improve filter life, saving you money and time changing filters
• Multiple power leads make this a truly universal product with one part number the world over
• Quieter - with an optional noise reduction system.

What’s more, it will come with iQ2 as standard, making this the most advanced fume extraction unit on the market.
INTelligent (iQ) OPERATING SYSTEM

Pioneering fume extraction.

Our award-winning Intelligent (iQ) Operating System brings multiple performance enhancements for higher efficiency of extraction, individual filter status monitoring and integral design features that combine to deliver a lower cost of ownership.

Most importantly, the iQ addresses the issue dreaded by most production teams - downtime - by minimising the potential for interrupting production for unplanned filter changes.

Sophisticated and advanced technology is inbuilt, providing a user-friendly and intuitive experience with the data being easy to access and analyse locally or remotely (from data downloaded via USB). It means that filter changes can be planned at a time to minimise or eliminate interruptions to production so businesses can continue as usual, as well as helping to avoid any costly or time-consuming service call-outs.

The iQ Operating System incorporates a method for monitoring the status of both the pre-filter and combined (main) filter. Pre-blockage warnings provide operators with ample time to prepare for a change by identifying which filter needs replacing and when so the uncertainty and guesswork is removed.

A user-friendly design is consistent across all iQ products for a more uniform look in environments where multiple units are in use. The operating ‘easy read’ control panel is on the top of each unit on a sloping fascia front so the data is easy to view.
**DEEP PLEAT DUO**

**PRE-FILTER**

Save filter life and money.

The DeepPleat DUO is the longest lasting pre-filter available on the market, extending the life of your main filter and reducing the overall cost of ownership of your unit.

BOFA’s unique patent-protected DeepPleat DUO pre-filter technology is designed to maximise filter life. It incorporates a large capacity drop-out chamber within the filter, along with an impressive surface area above the chamber to deal with a high volume and variety of particulate, ensuring optimised performance and filter life. Within the housing there is a sealed 200mm deep pleat layer of F8 media giving a surface area in excess of 6;12; and 30 sq metres.

Thanks to a specially moulded grommet style gasket situated within the drop out chamber the DeepPleat DUO is designed for easy and safe installation and replacement, which is particularly important as often harmful contaminants are captured within the filter.

The DeepPleat DUO is available in three different sizes, offering different drop-out chamber sizes and surface medium areas:

<table>
<thead>
<tr>
<th>Product</th>
<th>Inlet size</th>
<th>Dropout chamber size</th>
<th>Surface media area</th>
<th>Filter media pleat size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD Nano (+)</td>
<td>50mm</td>
<td>7.44 litres</td>
<td>6m²</td>
<td>150mm</td>
</tr>
<tr>
<td>AD Oracle iQ</td>
<td>75mm</td>
<td>16.2 litres</td>
<td>12m²</td>
<td>200mm</td>
</tr>
<tr>
<td>AD 500/1000/1500 iQ</td>
<td>125mm</td>
<td>58 litres</td>
<td>30m²</td>
<td>200mm</td>
</tr>
<tr>
<td>AD 2000 iQ</td>
<td>125mm</td>
<td>58 litres x2 (116 litres)</td>
<td>30m² x2 (60m²)</td>
<td>200mm x2 (400mm)</td>
</tr>
<tr>
<td>AD 4000 iQ</td>
<td>125mm</td>
<td>58 litres x3 (174 litres)</td>
<td>30m² x3 (90m²)</td>
<td>200mm x3 (600mm)</td>
</tr>
</tbody>
</table>
ACF: Advanced carbon filter
ACF assures safe capture and removal of hazardous fumes. Contaminated air must remain in contact with the carbon bed for a period of time sufficient to ensure that no contaminants or odours are emitted (‘dwell time’). Our design considers the balance between airflow rates and the type, depth and surface area of the carbon used to ensure suitability for the contaminants associated with the application and to ensure appropriate dwell times are achieved.

Our filters have been developed to capture contaminants and odours, eliminating the risk of bypass and/or tunnelling.

Find out more: bofainternational.com/acf

AFC: Automatic flow control
AFC allows the operator to preset correct airflow rates for the specific application, subsequently maintaining this airflow. This generates lower noise levels and ensures further protection of HEPA filters.

Find out more: bofainternational.com/afc

Intelligent (iQ) Operating System
Our patent-protected award-winning Intelligent (iQ) Operating System performs at two distinct levels: operators benefit from the ease of operation and clarity of real time information and the system provides a cache of analytical data, enabling users to download performance and operating parameters for evaluation purposes.

See page 9 for more information.

Find out more: bofainternational.com/iq

DeepPleat pre-filter
The DeepPleat pre-filter consists of a pleated filter of 100mm depth or greater, allowing for increased surface area within a smaller area. This means BOFA filters last a long time and do not take up a large footprint.

Find out more: bofainternational.com/deeppleat

DeepPleat DUO pre-filter
Our patent-protected DeepPleat DUO pre-filter technology is designed to maximise filter life. It incorporates a large capacity drop-out chamber within the filter. Above this chamber is an impressive surface area to deal with high volumes and variety of particulate, ensuring optimised performance and filter life.

The DeepPleat DUO is designed for easy and safe installation and replacement, which is particularly important as often harmful contaminants are captured within the filter. See page 10 for more information.

Find out more: bofainternational.com/deeppleatduo

HEPA filter
Removes 99.997% of particles at 0.3 micron in size.

Find out more: bofainternational.com/hepa

SFT: SMART filter technology
The new SMART filter system works with iQ2 to give assured filter performance. It incorporates RFID technology, so each filter has a uniquely coded, non removable label, allowing the iQ2 Operating System to establish authenticity and suitability.

Find out more: bofainternational.com/sft

SureCHECK quality standard
In recognition of the importance of quality, health and safety and environmental management, we have created our own stringent SureCHECK quality standard, applied to every product we make.

Find out more: bofainternational.com/surecheck

ProTECT
Our ProTECT service plan gives you peace of mind that your LEV systems are being expertly maintained throughout their working life.

Find out more: bofainternational.com/protect

MVS: Multi voltage sensing unit
Our MVS units automatically sense local voltage and automatically operate between 90-257V, for global use.

RFA: Reverse flow air technology
RFA enhances filter performance and ensures longer filter life. It causes a fall in velocity and air direction change. Larger particulate falls out of the airstream into the drop out chamber. With less particulate entering the filter media the filter life is significantly increased. Contaminated air entering the drop out chamber is pulled vertically through the filters.

Find out more: bofainternational.com/rfa

Intelligent (iQ2) Operating System
iQ2 combines field proven iQ reliability with a range of new and highly advanced feature enhancements, including Fieldbus connectivity, two-way communication and control, and SMART filter technology. See page 6 for more information.

Find out more: bofainternational.com/iq2

DeepPleat DUO pre-filter technology
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Find out more: bofainternational.com/deeppleatduo

SureCHECK quality standard
In recognition of the importance of quality, health and safety and environmental management, we have created our own stringent SureCHECK quality standard, applied to every product we make.

Find out more: bofainternational.com/surecheck

MVS: Multi voltage sensing unit
Our MVS units automatically sense local voltage and automatically operate between 90-257V, for global use.

Technical information in this brochure is correct at time of publishing. Please contact us for details.
BOFA’s ADVANTAGE range of laser fume extraction and filtration systems are designed for applications that generate particulate and gaseous volatile organic compounds (VOCs) within the laser coding, marking, cutting and engraving industries. Our Base units have been designed so that a number of manufacturers’ laser engravers can sit on top of the extractor, effectively, doubling up as a work station.
LASER FUME EXTRACTION

ADVANTAGE RANGE

By maintaining a dust-free operating area, our systems help to protect valuable equipment, maintain a higher quality mark and reduce the number of rejects and contaminants.

APPLICATIONS

Deep laser engraving
Laser cleaning
Laser coding
Laser cutting

Laser drilling
Laser engraving
Laser etching
Laser kiss cutting

Laser marking
Laser micro-machining
Laser pairing
Laser perforating

Laser welding
Traceability and date codes
Web scoring
AD ACCESS

A compact system for light duty laser marking, coding and engraving applications. The AD Access combines economic ownership with performance to match the small laser user, ensuring safe operator working conditions and product quality.

A three-stage filter condition indicator is included as a standard feature.

Approvals  CE | cUL | UL

For full product features - see page 39.

Dimensions  505 x 335 x 315mm
19.88 x 13.19 x 12.40"

Airflow/Pressure  180m³/hr / 30mbar
106cfm / 30mbar

Technology

Datasheet download
bofainternational.com/ad-access
AD FUSION

The AD Fusion has been designed to work with the new generation of low cost laser systems. It provides high performance at affordable prices and is ideally matched with smaller laser systems.

**Approvals**  CE

For full product features - see page 39.

Dimensions  590 x 380 x 440mm  23.2 x 38.6 x 17.3”

Airflow/Pressure  285m³/hr / 24mbar  167cfm / 24mbar

Technology

**Datasheet download**
bofainternational.com/ad-fusion
AD 250

The AD 250 provides a cost effective solution for light duty applications. This compact and extremely quiet system is ideal for use in schools, sign making workshops, small scale industrial environments and light laser coding applications.

**Approvals**  CE | cUL | UL

For full product features - see page 39.

**Dimensions**  570 x 405 x 465mm
                 23.23 x 15.94 x 18.31”

**Airflow/Pressure**  180m³/hr / 30mbar
                        106cfm / 30mbar

**Technology**

- [ ] HEPA
- [ ] DeepPleat pre-filter
- [ ] DeepPleat DUO pre-filter
- [ ] ACF Advanced carbon filter technology

**Datasheet download**

bofainternational.com/ad-250
AD 350

The quiet and compact AD 350 effectively removes potentially harmful fumes and particulate created during light duty laser marking, coding and engraving applications making it ideal for use in schools, sign making workshops and small scale industrial environments.

**Approvals**  CE | cUL | UL

For full product features - see page 39.

*Compatible with the FireBOX GA and FireBOX MA and Spark Arrestor 2 - See page 37-38*

| Dimensions      | 570 x 405 x 465mm  
|                 | 23.23 x 15.94 x 18.31” |
| Airflow/Pressure| 380m³/hr / 96mbar  
|                 | 223cfm / 96mbar |

**Technology**

- RFA Reverse flow air technology
- AFC Automatic flow control technology
- SFT SMART filter technology
- MVS Multi voltage sensing unit
- PATENTED Patented technology
- SureCHECK SureCHECK quality standard
- PROTECT ProTECT service plan

Datasheet download
bofainternational.com/ad-350
AD NANO

The AD Nano is ideal for small scale industrial environments and light to medium laser coding applications. The reverse flow air technology enhances filter performance and ensures longer filter life, with its DeepPleat DUO filter technology.

Approvals  CE

For full product features - see page 39.

Dimensions  790 x 360 x 420mm
            31.1 x 14.17 x 16.54”
Airflow/Pressure  170m³/hr / 30mbar
                   100cfm / 30mbar

Technology

Datasheet download
bofainternational.com/ad-nano
AD NANO+

This compact ‘go anywhere’ fume extraction system is feature-packed for big performance in small scale industrial sites and light laser coding applications. Incorporating many of the features found on our larger systems, the AD Nano+ is a cost effective solution for light to medium duty applications, making it the ideal choice for installations where floor space is limited.

The use of an auto-voltage sensing turbine means that this unit can be used anywhere in the world.

**Approvals**  CE

| Dimensions | 790 x 360 x 420mm  
|            | 31.1 x 14.17 x 16.54” |
| Airflow/Pressure | 300m³/hr / 96mbar  
|               | 176cfm / 96mbar |

**Technology**

- HEPA
- Auto-voltage sensing turbine
- SMART filter technology
- Multi voltage sensing unit
- Patented technology
- SureCHECK quality standard
- ProTECT service plan

**Datasheet download**  bofainternational.com/ad-nano-plus

For full product features - see page 39.
AD UNIVERSAL

This compact system is ideal for light to medium small scale industrial environments.

Approvals  CE

For full product features - see page 39.

Dimensions  625 x 385 x 525mm
             24.61 x 15.16 x 20.67”

Airflow/Pressure  380m³/hr / 96mbar
                 223cfm / 96mbar

Technology

Datasheet download
bofainternational.com/ad-universal
AD ORACLE SA iQ

This compact laser fume extractor incorporates a powerful range of unique features into one unit. It uses a smaller pre-filter to the AD Oracle iQ, but includes all the other features, making it ideal for lighter use applications.

Approvals  CE | cUL | UL

For full product features - see page 39.

Compatible with the FireBOX GA and FireBOX MA and Spark Arrestor 2 - See page 37-38

Dimensions  745 x 450 x 515mm
            29.33 x 17.72 x 20.28”

Airflow/Pressure  380m³/hr / 96mbar
                 223cfm / 96mbar

Technology

Datasheet download
bofainternational.com/ad-oracle-sa-iq
AD ORACLE iQ

The AD Oracle iQ combines a powerful range of unique features into one compact unit. This versatile system can be used across a range of laser applications and the revolutionary auto-voltage sensing blower automatically self adjusts to run on any voltage worldwide.

**Approvals**  CE | cUL | UL

*Compatible with the FireBOX GA and FireBOX MA and Spark Arrestor 2 - See page 37-38*

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**Dimensions**  975 x 455 x 505mm

38.39 x 17.91 x 19.88"

**Airflow/Pressure**  380m³/hr / 96mbar

223cfm / 96mbar

**Technology**

- iQ
- iQ2
- DeepPleat
- DeepPleat DUO
- HEPA
- HEPA filter
- ACF
- Advanced carbon filter technology

**Datasheet download**

bofainternational.com/ad-oracle-iq

For full product features - see page 39.
AD ORACLE iQ2

The next generation of fume extraction, the AD Oracle iQ2 combines field proven iQ technology with a range of new and highly advanced features, including Fieldbus connectivity, two-way communication and control, accurate filter monitoring - to ensure maximum lifespan and no unplanned maintenance - and remote reporting and diagnostics.

It can be used across a wide range of laser applications, with the option to have SMART filters.

See pages 6-7 for more information about iQ2 and SMART filter technology.

**Approvals**  CE

*Compatible with the FireBOX GA and FireBOX MA and Spark Arrester 2 - See page 37-38*

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<table>
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<th>Airflow/Pressure</th>
<th>380m³/hr / 96mbar</th>
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<tbody>
<tr>
<td></td>
<td>223cfm / 96mbar</td>
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</table>

**Technology**

- **IQ2**
- **HEPA**
- **SMART**
- **MVS**
- **Patented Technology**
- **SureCHECK Quality Standard**
- **ProTECT Service Plan**

**Datasheet download**
bofainternational.com/ad-oracle-iq2

For full product features - see page 39.
AD 500 iQ | 1000 iQ | 1500 iQ

These mid to high end laser fume extraction systems combine extremely large filter capacity with high airflow and pressure rates, making them the ideal choice for heavy duty applications that generate large amounts of particulate and gaseous organic compounds.

Performance has been further enhanced with the inclusion of several features including BOFA’s acclaimed patented iQ Operating System.

**Approvals** CE | cUL | UL

For full product features - see page 39.

*The AD 500 iQ and AD 1000 iQ are compatible with the FireBOX GA+ and FireBOX MA+ and Spark Arrestor 2 - See page 37-38*

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<th>Dimensions</th>
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<tr>
<td><strong>AD 500 iQ</strong></td>
<td><strong>Ad 1000 iQ</strong></td>
</tr>
<tr>
<td>Airflow/Pressure</td>
<td>550m³/hr / 100mbar</td>
</tr>
<tr>
<td></td>
<td>324cfm / 100mbar</td>
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**Technology**

- iQ
- HEPA
- DeepPleat
- DeepPleat DUO
- iQ Operating System
- Pre-filter
- ACF
- Advanced carbon filter technology

**Datasheet download**

bofainternational.com/ad-500-iq
bofainternational.com/ad-1000-iq
bofainternational.com/ad-1500-iq
AD 2000 iQ

The AD 2000 iQ's technology delivers superior and measurable performance, ensuring airflow and filtration is maintained even when particulates start to build up. The dual filter system creates maximum capacity while the three-stage filtration process ensures peak performance. This makes it suitable for the most demanding and complex installations, so you can rely on extended filter life, together with effective removal of fumes and particulates.

It's user friendly too, with a design that makes easy work of filter changes. The easy to read and access control display panel is conveniently located on top of the unit.

The AD 2000 iQ's design also permits greater flexibility of different exhaust installations and different configurations allowing recirculation via the rear panel or externally vented hose connection systems.

**Approvals**  CE

For full product features - see page 39.

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**Dimensions**  1280 x 1360 x 1005mm
50.39 x 53.54 x 39.57”

**Airflow/Pressure**  2500m³/hr / 96mbar
1295cfm / 96mbar

**Technology**

- AD
- IQ
- WM
- HEPA
- SMART
- FILTER
- TECHNOLOGY
- MVS
- Multi
- Voltage
- Sensing
- Unit
- PATENTED
- Technology
- SureCHECK
- Quality
- Standard
- PROTECT
- Service
- Plan

**Datasheet download**
bofainternational.com/ad-2000-iq
AD 4000 iQ

The AD 4000 iQ delivers superior and measurable performance, ensuring airflow and filtration is maintained even when particulates start to build up from the triple DeepPleat DUO and combined filter setup. This makes it suitable for the most demanding and complex installations, so you can rely on extended filter life, together with effective removal of fumes and particulates.

It’s user friendly too, with a design that makes easy work of filter changes. The easy to read and access control display panel is conveniently located on top of the unit.

The AD 4000 iQ’s design also permits greater flexibility of different exhaust installations. Different exhaust configurations allow recirculation via the rear panel or externally vented hose connection systems.

Approvals  CE
AD 4000

The AD 4000 laser fume extraction unit combines large filter capacity with high airflows. This combination makes the AD 4000 ideal for large laser engravers, laser cutters as well as multiple laser coding installations.

Easily accessible filters are accommodated by the uniquely styled gas spring assisted ‘gull winged’ doors, which allow for maximum space and ease when changing filters.

Unit interfaces such as stop/start and system failure are available as options.

**Approvals  CE**

| Dimensions       | 1475 x 1450 x 1500mm  
|                  | 50.2 x 76.7 x 43.3”  |
| Airflow/Pressure | 4000m³/hr / 30mbar  
|                  | 2354cfm / 30mbar    |

**Technology**

Datasheet download
bofainternational.com/ad-4000

For full product features - see page 39.
AD PVC iQ

The AD PVC iQ extraction system has been designed to effectively deal with the corrosive nature of the fumes generated when lasering PVC materials.

The latest design specification includes many of the features associated with our AD Oracle iQ (page 22) model as standard but in addition all internally exposed surfaces have been coated to resist the corrosive nature of the fume and each unit is fitted with HCL and VOC sensors which continually monitor the exhaust air of the unit giving added safety assurance.

**Approvals** CE | cUL | UL

**Dimensions** 1090 x 570 x 600mm  
42.91 x 22.44 x 23.62”

**Airflow/Pressure** 350m³/hr / 96mbar  
206cfm / 96mbar

**Technology**

**Datasheet download**
bofainternational.com/ad-pvc-iq

For full product features - see page 39.
AD GoldSEAL + Cyclone

This unit offers the complete solution for the extraction, filtration and recovery of precious metals. The particles are collected in an easy to remove tray and the HEPA filter can be incinerated to reveal the precious metal collected during the filtration process.

Automatic flow control allows the user to pre-set correct airflow rates, for lower noise levels and further protection of the HEPA filter. The cyclone enables the separation of precious metals before they even reach the main extraction area, allowing for easier and more efficient collection, as well as prolonging the life of the main filter.

Approvals  CE

For full product features - see page 39.
AD Base 1 Oracle

Suitable for a range of lasers, the AD Base 1 Oracle combines a DeepPleat DUO pre-filter and auto-voltage blower in a compact base system. BOFA’s easi-seal filter location makes filter change easy, quick and safe.

As with all our Base systems, this unit has the option of an onboard compressor for a compact installation.

Approvals  CE

For full product features - see page 39.

Dimensions  
790 x 735 x 740mm  
31.10 x 28.94 x 29.13”

Airflow/Pressure  
380m³/hr / 96mbar  
223cfm / 96mbar

Technology

Datasheet download
bofainternational.com/ad-base-1-oracle
AD Base 2 Oracle

Adapting the AD Base 1 Oracle, this unit sits lower to allow larger bed lasers to be placed securely on top whilst giving a direct extraction system. This system also benefits from a DeepPleat DUO pre-filter and multi voltage sensing unit.

As with all our Base systems, this unit has the option of an onboard compressor for a compact installation.

**Approvals**  CE

For full product features - see page 39.

**Dimensions**

550 x 1060 x 810mm

21.65 x 41.74 x 31.89”

**Airflow/Pressure**

380m³/hr / 96mbar

223cfm / 96mbar

**Technology**

Datasheet download

bofainternational.com/ad-base-2-oracle
AD Base 3

The AD Base 3 is designed for the smaller Universal Versa Laser. The optional onboard compressor makes this a compact installation.

**Approvals**  CE

For full product features - see page 39.

**Dimensions**  775 x 510 x 680mm
30.51 x 20.08 x 26.77”

**Airflow/Pressure**  180m³/hr / 30mbar
105cfm / 30mbar

**Technology**

Datasheet download
bofainternational.com/ad-base-3

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**OUR LEADING TECHNOLOGY**

- **iQ2** Intelligent (iQ2) Operating System
- **iQ** Intelligent (iQ) Operating System
- DeepPleat DeepPleat pre-filter
- DeepPleat DUO DeepPleat DUO pre-filter
- HEPA HEPA filter
- ACF Advanced carbon filter technology
AD Base C180

Bespoke unit tailored to match the GCC C180 laser engraver. The dimensions of the unit allow the C180 to fit perfectly onto the extractor, effectively doubling it up as a work station. The unit is also offered with an onboard air compressor to provide the laser with its air assist requirements and comes complete with extraction hose kit and compressor link up on compressor models.

Approvals  CE

For full product features - see page 39.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>795 x 740 x 720mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>31.30 x 29.13 x 28.35”</td>
</tr>
<tr>
<td>Airflow/Pressure</td>
<td>180m³/hr / 30mbar</td>
</tr>
<tr>
<td></td>
<td>105cfm / 30mbar</td>
</tr>
</tbody>
</table>

Datasheet download
bofainternational.com/ad-base-c180
AD Base Z

The AD Base Z has been designed specifically for the Epilog Zing laser engraver. The dimensions of the unit allow the Zing to fit perfectly onto the extractor, effectively doubling it up as a work station. The distinctive blue finish has been matched with the blue ends of the laser to give a stylish installation.

The unit is also offered with an onboard air compressor to provide the laser with its air assist requirements. All units come complete with extraction hose kit and compressor link up on compressor models.

**Approvals**  
CE

**Dimensions**  
780 x 780 x 600mm  
30.71 x 30.71 x 23.62”

**Airflow/Pressure**  
180m³/hr / 30mbar  
105cfm / 30mbar

**Technology**

- DeepPleat
- DeepPleat pre-filter
- HEPA
- HEPA filter
- ACF Advanced carbon filter technology

**Datasheet download**
bofainternational.com/ad-base-z

For full product features - see page 39.
Mobile FumeKART

The FumeKART is the ideal portable air extraction and filtration unit and can be applied to a variety of applications.

Designed to filter dust particles, weld fumes, mould spores, solvent vapours and other pollutants from the work environment, the FumeKART is easy to operate and maintain and provides the additional benefit of being fully portable.

User will have flexibility and the assurance of high performance filtration. A filter condition indicator is included as a standard feature, together with three-stage filtration: pre-filter, HEPA and gas filter.

**Approvals** CE

| Dimensions       | 875 x 475 x 430mm  
|                 | 37.4 x 18.7 x 17” |
| Airflow/Pressure | 380m³/hr / 100mbar  
|                 | 223cfm / 100mbar   |

**Technology**

Datasheet download
bofainternational.com/mobile-fumekart

For full product features - see page 39.
**INLINE FILTERS**

**AD CYCLONE**

Laser marking generates a range of particle sizes from 0.1 micron upwards so standard cyclone separators are not suitable.

BOFA’s inline cyclone is designed to operate more efficiently at these lower particle sizes.

The cyclone separator has been designed specifically for use with the AD Oracle iQ and AD Oracle iQ2 (see pages 22-23) and is installed between the laser extraction point and the extractor. The airflow generated by the extraction unit powers the cyclone.

**Approvals** CE

| Dimensions       | 800 x 300 x 140mm  
|                  | 31.5 x 11.81 x 5.51”  |
| **Datasheet download** | bofainternational.com/ad-cyclone |

**ILF 300/600/1000**

The BOFA inline pre-filters have been designed specifically for applications that generate high amounts of dust or particulate.

The filter unit is positioned alongside the main BOFA fume filtration system to increase the overall filter capacity and extend the life of the main, more expensive filters.

A range of application dependent filter types and configurations are available on request.

**Approvals** CE

| **ILF 300** | Dimensions | 796 x 638 x 328mm  
|            |            | 31.34 x 25.12 x 12.92”  |
| **Datasheet download** | bofainternational.com/ilf-300 |

| **ILF 600** | Dimensions | 820 x 631 x 635mm  
|            |            | 32.28 x 24.84 x 25”  |
| **Datasheet download** | bofainternational.com/ilf-600 |

| **ILF 1000** | Dimensions | 650 x 617 x 763mm  
|             |            | 25.6 x 24.3 x 30”  |
| **Datasheet download** | bofainternational.com/ilf-1000 |
FireBOX GA/MA and FireBOX GA+/MA+ self-extinguishing inline pre-filter

In the rare event that a burning ember is drawn into the fume extraction unit, there is the possibility that debris in the filters could ignite. Although any resultant fire would typically be retained within the fume extraction unit, this would cause significant damage and in extreme circumstances the risk may extend beyond the extraction unit. For processes where such risks have been identified, additional protection in the form of an inline firebox is an additional precaution. We offer two sizes of our FireBOX to cater for different size extraction units.

WHICH PRODUCT DO YOU NEED?

The FireBOX GA/GA+ is designed for general applications. The FireBOX MA/MA+ is designed specifically for metal-based applications. Speak to your sales representative to ensure you choose the right system.

**FireBOX GA/MA**

<table>
<thead>
<tr>
<th>Approvals</th>
<th>CE</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>1186 x 480 x 600mm (46.7 x 19 x 24” (including beacon)</td>
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<tr>
<td>Airflow</td>
<td>Up to 380m³/hr (Up to 223cfm)</td>
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<tr>
<td><strong>Datasheet download</strong></td>
<td>bofainternational.com/firebox-ga</td>
</tr>
</tbody>
</table>

For added safety and protection from fire. The built-in temperature controller can be set so when a 10°C temperature rise is detected, the FireBOX will activate the isolating valves and switch off the power to the extraction unit; suppressing the airflow to the FireBOX and reducing the speed of fire. If this does not suppress the fire and the temperature rises another 10°C then the fire extinguisher will be activated.

Ideally paired with AD 350; AD Oracle SA iQ; AD Oracle iQ; and AD Oracle iQ2; (page 17 & 21-23).

**FireBOX GA+/MA+**

<table>
<thead>
<tr>
<th>Approvals</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>1380 x 615 x 900mm (54.33 x 24.21 x 35.43” (including beacon)</td>
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<tr>
<td>Airflow</td>
<td>Up to 1250m³/hr (Up to 735cfm)</td>
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<td><strong>Datasheet download</strong></td>
<td>bofainternational.com/firebox-ga+</td>
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</table>

For larger extraction systems. Ideally paired with AD 500 iQ and AD 1000 iQ (page 24).
Spark Arrestor 2

BOFA’s Spark Arrestor 2 unit effectively prevents potentially damaging burning particulates, generated during laser marking processes, from entering the fume extraction unit.

Hot burning particulate is transported through the specially designed plates positioned within the airflow, slowing the burning particulate down until it finally drops into the removeable drop-out chamber, so protecting the fume extractor.

LASER COOLING UNITS

Our AD 200 CU is an electrically driven, cooling air unit. It supplies cool, filtered air to both the laser and power supply module. This clean, cool air ensures optimal laser performance and reliability.

The AD 350 CU is designed to supply cool, filtered air to both the laser and power supply module. This clean, cool air ensures optimal laser performance and reliability. It can also be used as a seal to increase the IP rating of the laser.

PIPEWORK

We offer a wide range of pipework available in 50mm, 75mm, 110mm, 125mm.

Speak to your sales representative to ensure you get the right pipework for your system.
<table>
<thead>
<tr>
<th>Feature</th>
<th>AD Access</th>
<th>AD Fusion</th>
<th>AD 250</th>
<th>AD 350</th>
<th>AD Nano</th>
<th>AD Nano+</th>
<th>AD Universal</th>
<th>AD Oracle IQ</th>
<th>AD Oracle IQ-2</th>
<th>AD 500 Q</th>
<th>AD 1000 Q</th>
<th>AD 1500 Q</th>
<th>AD 2000 Q</th>
<th>AD 4000 Q</th>
<th>AD PVC Q</th>
<th>AD GoldSEAL + Cyclone</th>
<th>AD Base 1 Oracle</th>
<th>AD Base 2 Oracle</th>
<th>AD Base 3</th>
<th>AD Base C180</th>
<th>AD Base Z</th>
<th>Mobile FumeKART</th>
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<td>Optional Features</td>
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Can’t find an accessory that fits your requirements?

We have an extensive range of accessories available. On request we can create bespoke accessories to complement our full range of BOFA dust and fume extraction systems.

Speak to our experts today to find the perfect solution for your specific requirements.