



A WORLD LEADER IN FUME  
EXTRACTION TECHNOLOGY

# AD 500 iQ

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Affordable high-performance laser fume extraction system for applications in the laser marking, coding and engraving industries.

BOFA's AD 500 iQ mid to high-end laser fume extraction system combines extremely large filter capacity with high airflow and pressure rates, making it 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 iQ Operating System.

The iQ system takes performance and safety parameters to a new level and ensures that maintenance, downtime and ownership costs are kept to a minimum.

More information about the [Intelligent Operating System \(iQ\)](#).

## Technology



**Intelligent Operating System (iQ)**



**DeepPleat DUO pre-filter**



**HEPA filter**



**Automatic flow control (AFC) technology**



**Reverse flow air (RFA) technology**



**Advanced carbon filter (ACF) technology**



**Patented technology**



**ProTECT service plan**



**SureCHECK quality standard**

## Key features of the AD 500 iQ

**iQ Operating System Standard**

**Reverse flow air filter technology Standard**

**High airflow and pressure rates Standard**

**DeepPleat DUO pre-filter Standard**

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

<https://bofainternational.com/en/portal/datasheets/ad-500-iq/>



Approvals: REACH and RoHS. See individual product technical data for specific accreditations

**Combined HEPA / gas filter incorporating ACF technology**  
Standard

**Real time airflow reading**  
Standard

**High contrast display**  
Standard

**Remote diagnostics via USB**  
Standard

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

**Filter change / system fail signal**  
Optional

**On-board compressor**  
Optional

**Automatic flow control system**  
Standard

**Independent filter condition monitoring, display and warnings**  
Standard

**'Run safe' operation**  
Standard

**Filters with long life and low replacement cost**  
Standard

**Remote stop / start interface**  
Optional

**Interfacing with host laser**  
Optional

**Optional filter medias**  
Optional

## Technical specification

1. iQ display

2. On / off switch

3. Power cable

4. Signal / interface cable

5. Castors

6. Door hinge

7. Hose inlet connection -  
125mm

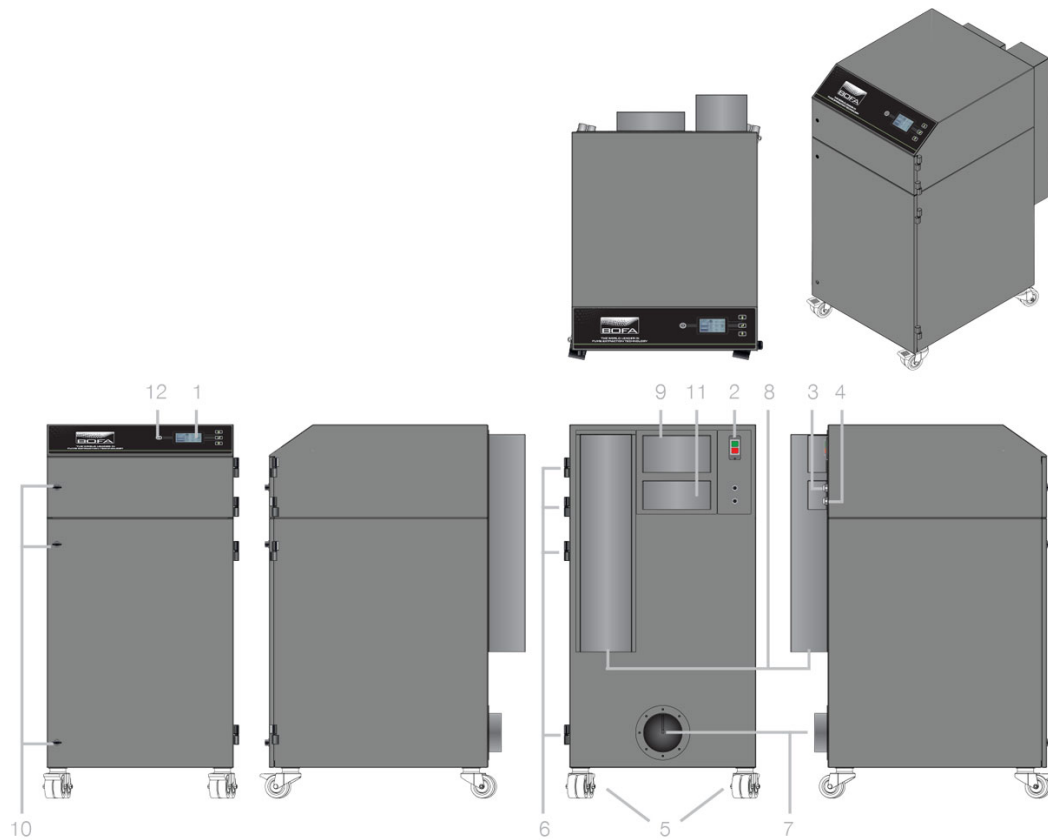
8. Exhaust outlet

9. Motor cooling inlet

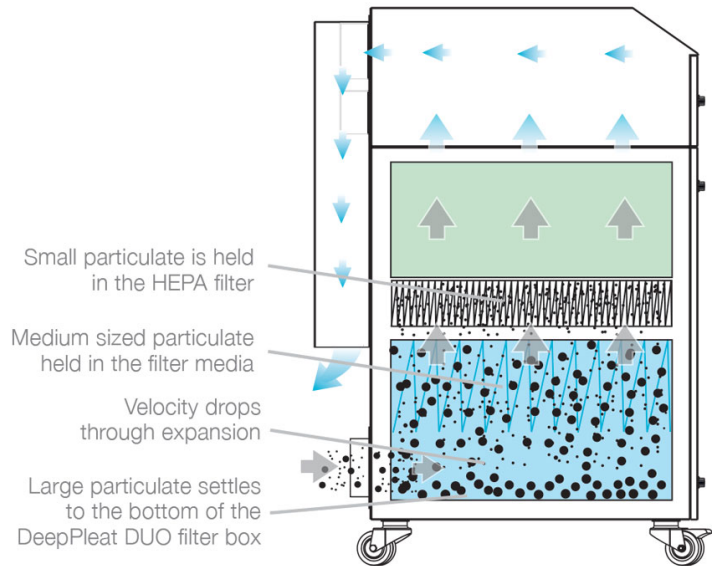
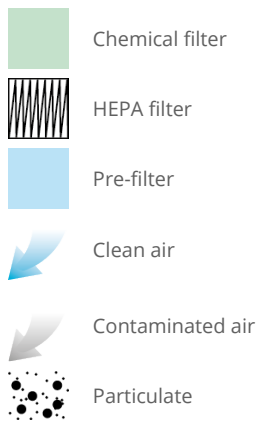
10. Door latch

11. Motor cooling outlet

12. Standby button



## Airflow through filters



### Technical data

	EU	US
Dimensions (HxWxD)	1205 x 615 x 790mm	47.44 x 24.21 x 31.10"
Cabinet construction	Brushed stainless steel / Powder coated mild steel	Brushed stainless steel / Powder coated mild steel
Airflow / pressure	550m <sup>3</sup> /hr / 100mbar	324cfm / 100mbar
Electrical data	230v Single-phase 1~ 50/60Hz Full load current: 9.5 amps / 1.1kw	115v 60/50Hz Full load current: 14.8 amps / 1.1kw
Noise level	< 60dBA (at typical operating speed)	< 60dBA (at typical operating speed)
Weight	136kg	292lbs
Approvals	UKCA and CE	cUL, UL *

### DeepPleat DUO pre-filter specifications

Surface media area	30m <sup>2</sup> approx (322.8ft <sup>2</sup> )
Filter media	Borosilicate
Filter media construction	Maxi pleat construction with glue bead spacers
Filter housing	Zintec mild steel
Filter efficiency	95% @ 0.9 microns
Inlet size	125mm (0.41ft)
Dropout chamber size	58 litres
Filter media pleat size	200mm (0.65 ft)

### Combined HEPA / gas filter specifications

Surface media area	7.5m <sup>2</sup> approx (80.7 ft <sup>2</sup> )
HEPA filter media	Borosilicate
HEPA media construction	Maxi pleat construction with glue bead spacers
Filter housing	Zintec mild steel

## Combined HEPA / gas filter specifications

Treated activated carbon	34kgs (74.8 lbs)
Filter efficiency	99.997% @ 0.3 microns

## Unit part numbers

Model	Voltage	Part no.	24V stop / start	Filter change / system failure signal	VOC monitoring	On-board compressor
AD 500 iQ powder coated	230V	L0662	A2001	A2002	A2003	A2007
AD 500 iQ powder coated	115V	L0661	A2001	A2002	A2003	A2007
AD 500 iQ stainless steel	230V	L0672	A2001	A2002	A2003	A2007
AD 500 iQ stainless steel	115V	L0671	A2001	A2002	A2003	A2007

## Replacement filter part numbers

Model	DeepPleat DUO pre-filter	Combined filter
AD 500 iQ	A1030222	A1030297

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

## Other languages

AD 500 iQ

[German](#)

AD 500 iQ

[Chinese](#)

AD 500 iQ

[French](#)

*Datasheet correct at time of publishing.*

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

**Important Notice:** Many factors beyond the control of BOFA can affect the use and performance of BOFA products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.

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

