



A WORLD LEADER IN FUME  
EXTRACTION TECHNOLOGY

# AD 1000 iQ

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High-performance laser fume extraction system for applications in laser marking, coding and engraving.

BOFA's AD 1000 iQ high-end laser 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 is enhanced with the inclusion of several features including BOFA's patented DeepPleat DUO pre-filter and the acclaimed iQ Operating System. These take 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 1000 iQ

**iQ Operating System**  
Standard

**Reverse flow air filter technology**  
Standard

**Automatic flow control system**  
Standard

**High contrast display**  
Standard

**Remote diagnostics via USB**  
Standard

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

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

**Filter change / System fail signal**  
Optional

**Optional filter medias**  
Optional

**High airflow and pressure rates**  
Standard

**DeepPleat DUO pre-filter**  
Standard

**Real time airflow reading**  
Standard

**'Run safe' operation**  
Standard

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

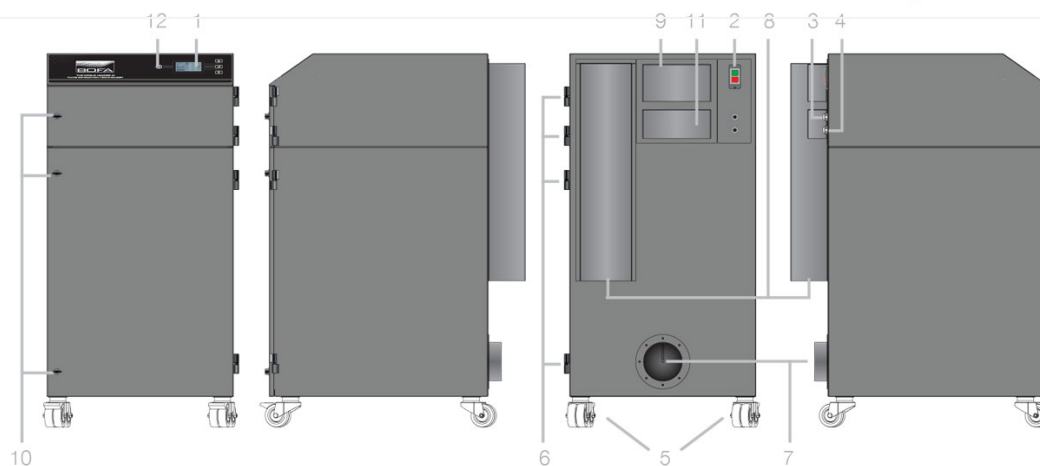
**Filters with long life and low replacement cost**  
Standard

**Remote stop / start interface**  
Optional







**Interfacing with host laser**  
Optional

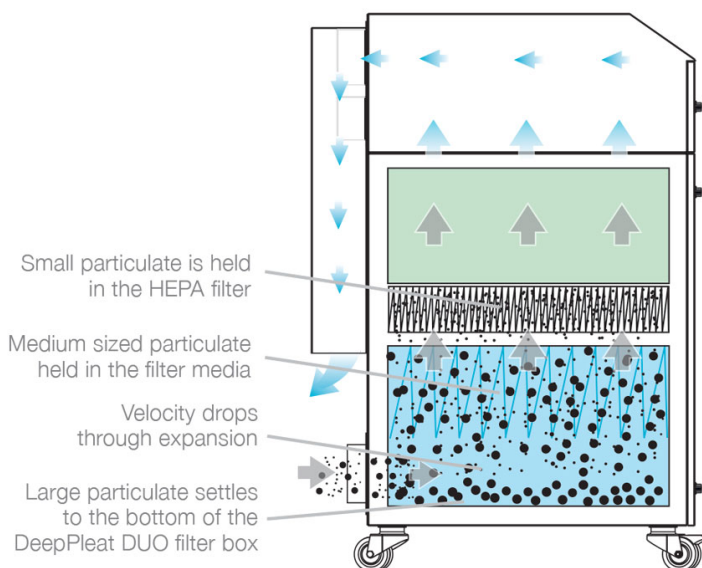
## Technical specification

- |                        |                    |                                  |                             |
|------------------------|--------------------|----------------------------------|-----------------------------|
| 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

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



## 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 500cfm / 100mbar
Airflow / pressure	850m <sup>3</sup> /hr / 100mbar	500cfm / 100mbar
Electrical data	230v Single-phase 1~ 50/60Hz Full load current: 12.8 amps / 2.2kw	115v 60/50Hz Full load current: 19.5 amps / 2.2kw
Noise level	< 63dBA (at typical operating speed)	< 63dBA (at typical operating speed)
Weight	140kg	309lbs
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 fold construction with webbing 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 (0.65ft)

## Combined filter HEPA/Gas specifications

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

## Combined filter HEPA/Gas 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 1000 iQ powder coated	230V	L0762	A2001	A2002	A2003	A2007
AD 1000 iQ powder coated	115V	L0761	A2001	A2002	A2003	A2007
AD 1000 iQ stainless steel	230V	L0772	A2001	A2002	A2003	A2007
AD 1000 iQ stainless steel	115V	L0771	A2001	A2002	A2003	A2007

## Replacement filter part numbers

Model	DeepPleat DUO pre-filter	Combined HEPA/Gas filter
AD 1000 iQ	A1030222	A1030297