



A Donaldson Company

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

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-1000-iq/>

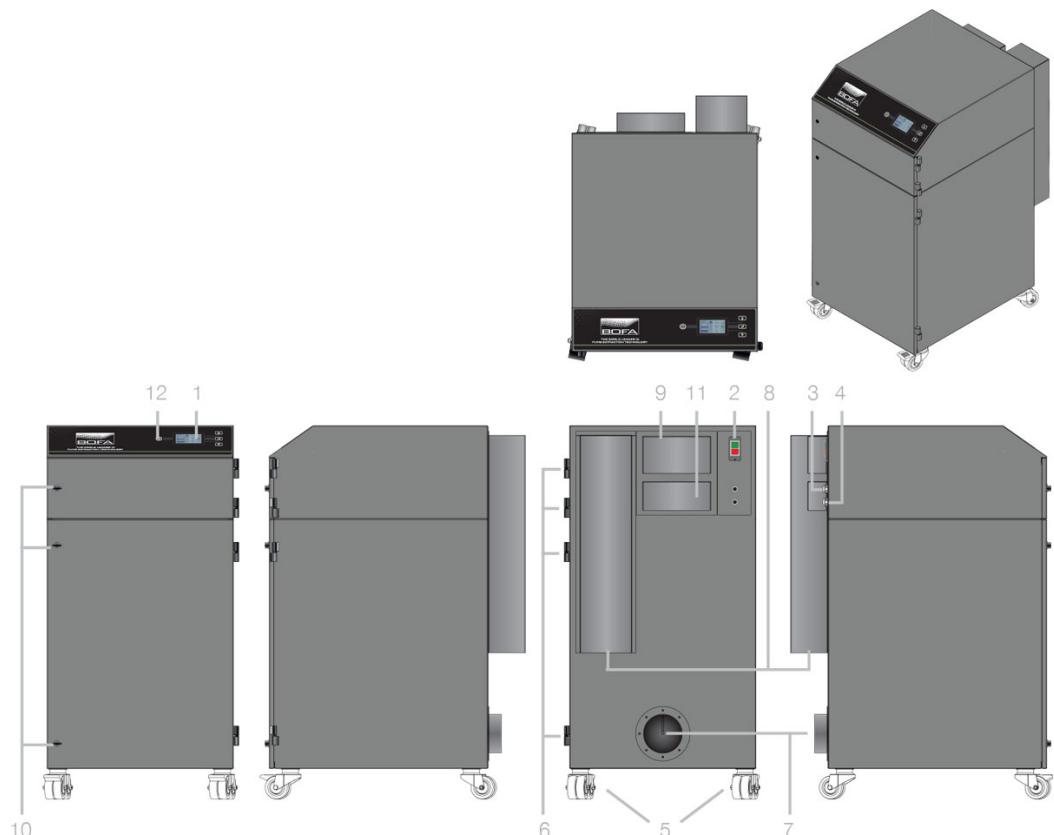


Approvals: REACH and RoHS. See individual product technical data for specific accreditations

Automatic flow control system	Real time airflow reading
Standard	Standard
High contrast display	'Run safe' operation
Standard	Standard
Remote diagnostics via USB	Independent filter condition monitoring, display and warnings
Standard	Standard
Combined HEPA/Gas filter incorporating ACF technology	Filters with long life and low replacement cost
Standard	Standard
VOC gas sensor (Volatile Organic Compound)	Remote stop / start interface
Optional	Optional
Filter change / System fail signal	Interfacing with host laser
Optional	Optional
Optional filter medias	
Optional	

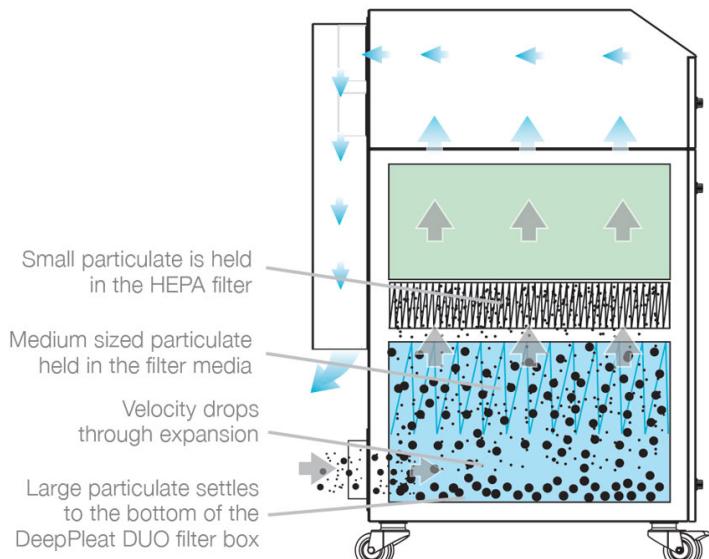
Technical specification

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

-  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	850m³/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	30m² approx (322.8ft²)
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	7.5m² approx (80.7ft²)
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

* 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 1000 iQ
[French](#)

AD 1000 iQ
[Japanese](#)

AD 1000 iQ
[Chinese](#)

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.

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