BOFA™
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.

Technology

- Intelligent (iQ) Operating System
- 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

High airflow and pressure rates
Standard

Reverse flow air filter technology
Standard

DeepPleat DUO pre-filter
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

Real time airflow reading
Standard

'Run safe' operation
Standard

Independent filter condition monitoring, display and warnings
Standard

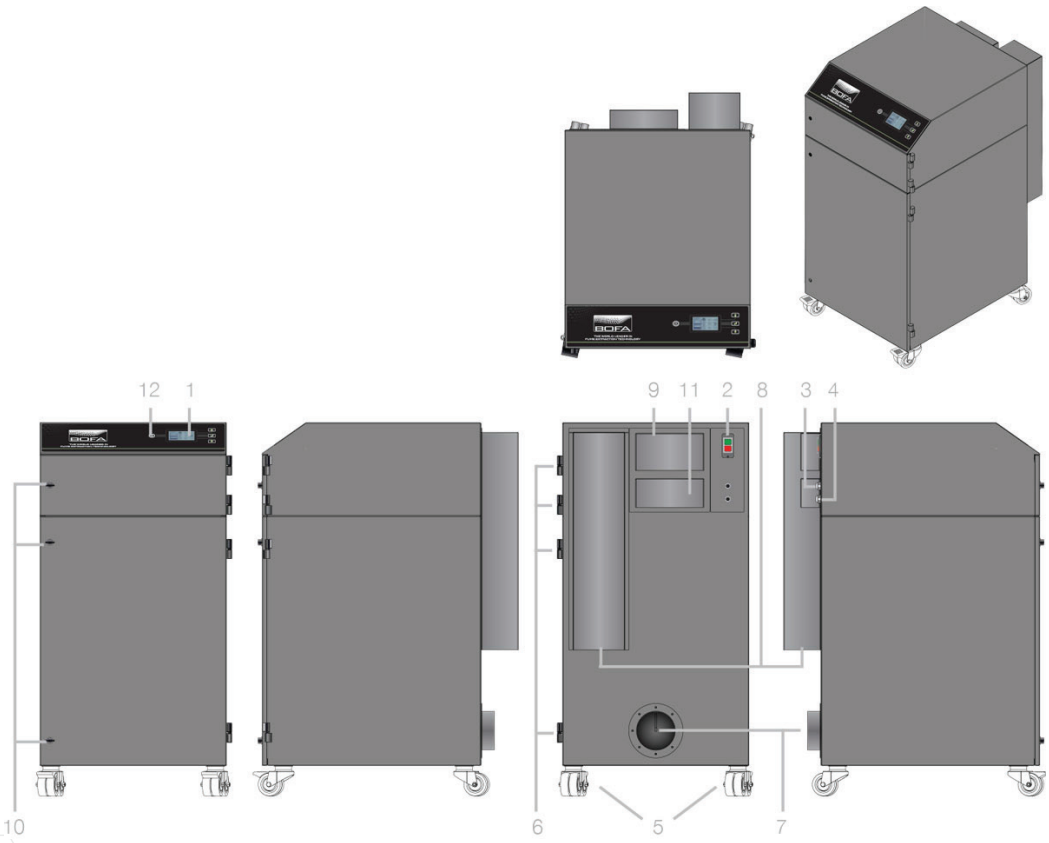
Filters with long life and low replacement cost
Standard

Remote stop / start interface
Optional

Interfacing with host laser
Optional

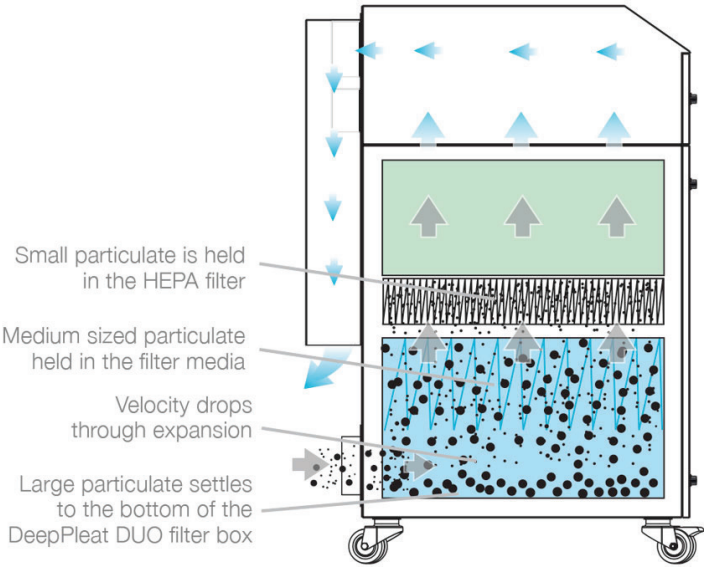
Technical specification

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	850m³/hr / 100mbar	500cfm / 100mbar
Electrical data	230v 1ph 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)
	< 58dBA - with rear silencing boxes fitted (at typical operating speed)	< 58dBA - with rear silencing boxes fitted (at typical operating speed)
Weight	140kg	309lbs
Approvals	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

Combined filter HEPA/Gas specifications

HEPA media construction	Maxi pleat construction with glue bead spacers
Filter housing	Zintec mild steel
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

* Certain product configurations may affect the UL certification. Please speak to your sales representative.

Other languages

AD 1000 iQ
German

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 VOC's, 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.

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

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