



A Donaldson Company

A WORLD LEADER IN FUME
EXTRACTION TECHNOLOGY

AD 1000 iQ FUME EXTRACTOR

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

BOFA's AD 1000 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 Intelligent Operating System (iQ).

The iQ system takes performance and safety parameters to a new level and helps keep maintenance, downtime and ownership costs to a minimum.

Key features

- Intelligent Operating System (iQ)
- High airflow and pressure rates
- Reverse flow air filter technology
- DeepPleat DUO pre-filter
- Combined HEPA/gas filter incorporating ACF technology
- Automatic flow control system
- Real-time airflow reading
- Independent filter condition monitoring, display and warnings
- High contrast display
- 'Run safe' operation
- Remote diagnostics via USB
- Filters with long life and low replacement cost
- Optional VOC (volatile organic compound) gas sensor
- Optional interfacing with host laser
- Optional remote stop/start interface
- Optional filter change/system fail signal
- Optional on-board compressor
- Optional filter medias



Intelligent
Operating
System (iQ)



DeepPleat
DUO pre-
filter



HEPA
filter



Advanced
carbon
filter (ACF)
technology



Automatic flow
control (AFC)
technology



Reverse flow
air (RFA)
technology



Multi-voltage
sensing unit
(MVS)



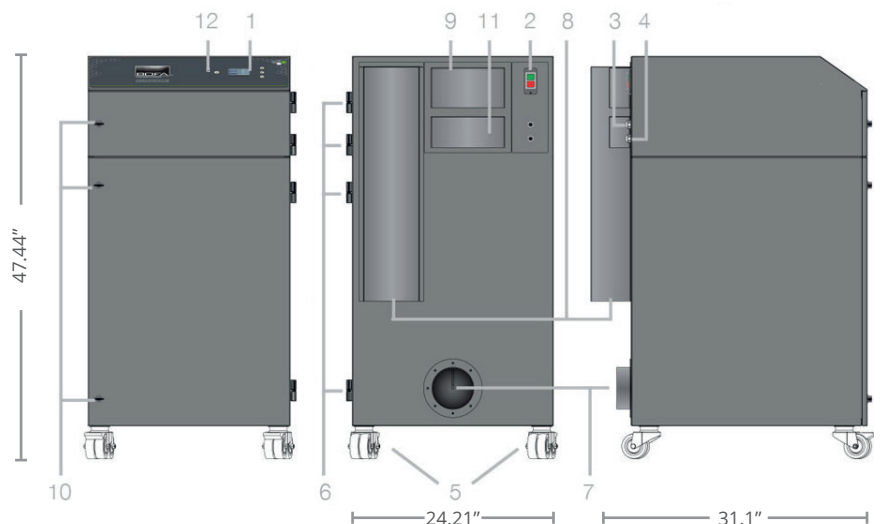
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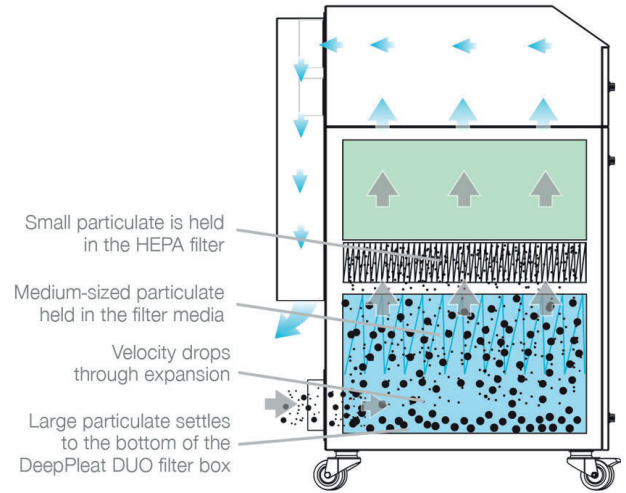
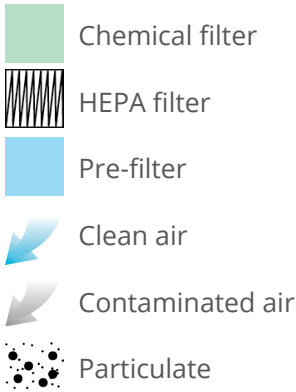
Patented
technology

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

Dimensions (HxWxD)	47.44 x 24.21 x 31.10"
Cabinet construction	Powder coated mild steel (RAL7016)
Unrestricted airflow*	515cfm (+/- 10%)
Settable range** / Max pressure	176-430 cfm / 100mbar (+/- 3%)
Electrical data	Voltage: 115V Frequency: 50/60Hz Full load current: 19.5 amps
Interface signal connection	Not included as standard (see options for more information)
Noise level	< 85 dBA (at typical operating speed)
Weight (standard extractor with filters)	324lbs (+/- 5%)
Approvals	UKCA, CE and cUL, UL***

Pre-filter specifications (DeepPleat DUO)

Surface media area	approx 129.12 ft ²
Filter efficiency	F8 - 50% @ 0.3 microns

Combined HEPA / gas filter specifications

Activated carbon volume	11.8 gallons
HEPA filter efficiency	99.995% @ 0.3 microns

Part numbers

Model	AD 1000 iQ - Powder-coated	
Part number	115V	1U10810503-A-1419
	230V	1U30811503-1419
Including 24v stop/start and filter change signal	115V	1U4665810503-1419
	230V	1U630811503-1419
Optional VOC	1UA1070028	
Single hose kits	1USHK-5-(3,4,5,6)	
Dual hose kits	1UDHK-5-(3,4,5,6)	
Optional exhaust spigot 125mm* replaces exhaust box vent	1UA1060029	
Replacement filters		
Pre-filter (DeepPleat DUO)	1UA1030222	
Combined HEPA/gas filter	1UA1030297	

Customizations

Options

- Stop/start function
- Filter signal condition
- VOC
- Exhaust box/exhaust spigot

Power cables

- Type B
- Type E
- Type G

Paint finish

- Powder-coated mild steel (RAL7016)

If other options are required, please contact a sales representative.

* Unrestricted airflow = The airflow values provided with clean filters, no hose kit, at 230V, measured by using a wind vane. The numbers may vary depending on voltage and test procedure used.

** Settable range = BOFA recommends utilizing the lowest flow rate that achieves the correct capture velocity for your application in order to maximise filter life

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

Contact BOFA at donaldsonbofa.com/contact/

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

