



A Donaldson Company

A WORLD LEADER IN FUME
EXTRACTION TECHNOLOGY

AD 500 iQ

LASER

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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, making the AD 500 iQ one of the most advanced systems available.

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 \(iQ\) Operating System](#).

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 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/>



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

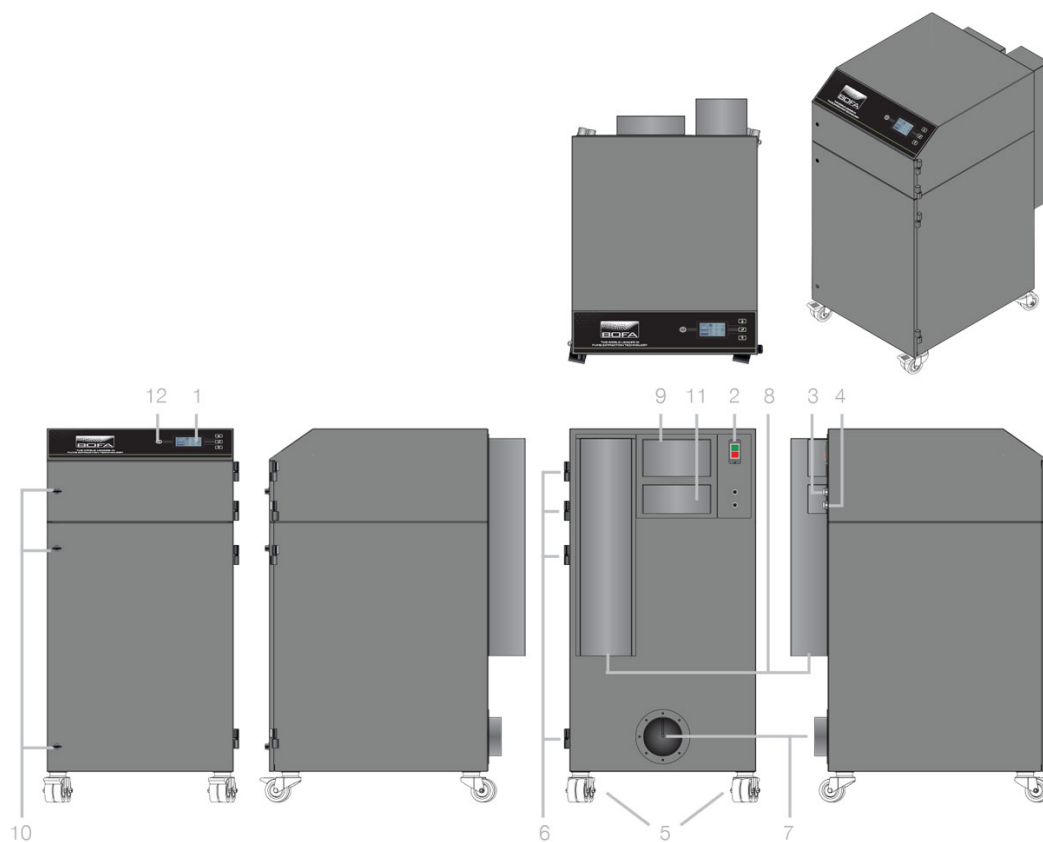
8. Exhaust outlet

9. Motor cooling inlet

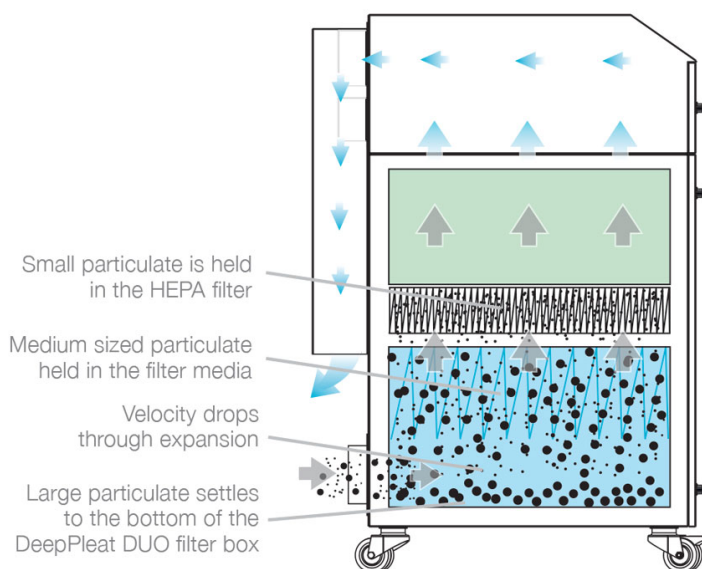
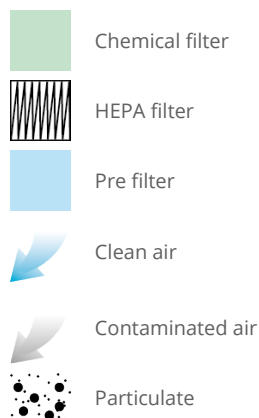
10. Door latch

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	550m³/hr / 100mbar	324cfm / 100mbar
Electrical data	230v 1ph 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	146kg	322lbs
Approvals	CE	cUL, UL

DeepPleat DUO pre filter specifications

Surface media area	30m² approx (322.8ft²)
Filter media	Glass fibre
Filter media construction	Maxi pleat 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 (0.65 ft)

Combined HEPA/Gas filter specifications

Surface media area	7.5m² approx (80.7 ft²)
HEPA filter media	Glass Fibre
HEPA media construction	Maxi pleat construction with Webbing 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

Other languages

AD 500 iQ
[German](#)

AD 500 iQ
[French](#)

Datasheet correct at time of publishing.

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.

