BOFA™
A Donaldson Company

A WORLD LEADER IN FUME EXTRACTION TECHNOLOGY

AD 500 iQ

Last Updated on 01.02.2022

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 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.

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 500 iQ

iQ Operating System
Standard

High airflow and pressure rates
Standard

Reverse flow air filter technology
Standard

DeepPleat DUO pre-filter
Standard

Contact BOFA at **https://bofainternational.com/en/contact/**

https://bofainternational.com/en/portal/datasheets/ad-500-iq/

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

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

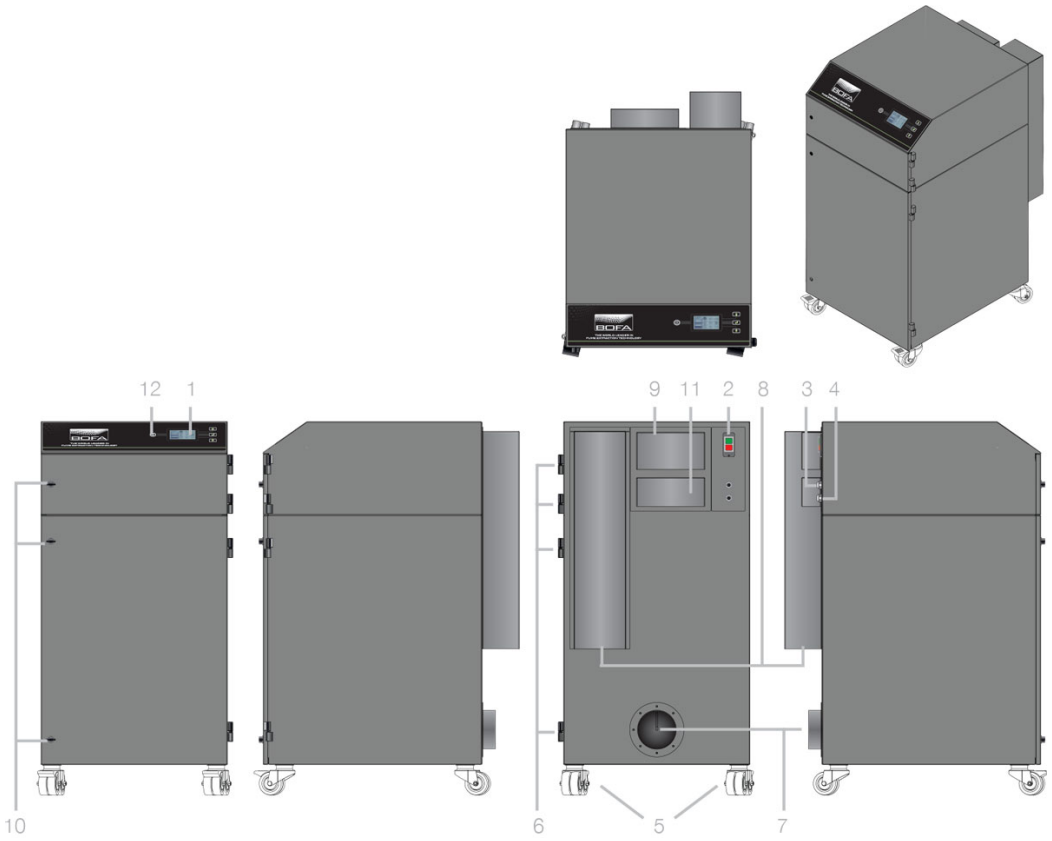
Remote stop / start interface
Optional

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

Chemical filter

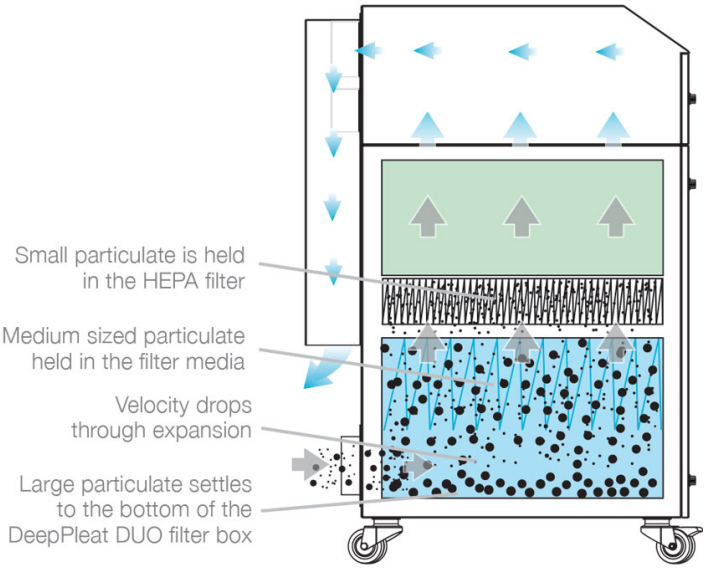
HEPA filter

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
Airflow / pressure	550m³/hr / 100mbar	324cfm / 100mbar
Electrical data	230v Single-phase 1~ 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	136kg	292lbs
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 pleat construction with glue bead 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	Borosilicate
HEPA media construction	Maxi pleat construction with glue bead 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

* 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 500 iQ
German

AD 500 iQ
French

AD 500 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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A WORLD LEADER IN FUME EXTRACTION TECHNOLOGY

AD 1000 iQ

Last Updated on 01.02.2022

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 Intelligent Operating System (iQ). These take performance and safety parameters to a new level and helps keep maintenance, downtime and ownership costs 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

High airflow and pressure rates
Standard

Reverse flow air filter technology
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
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

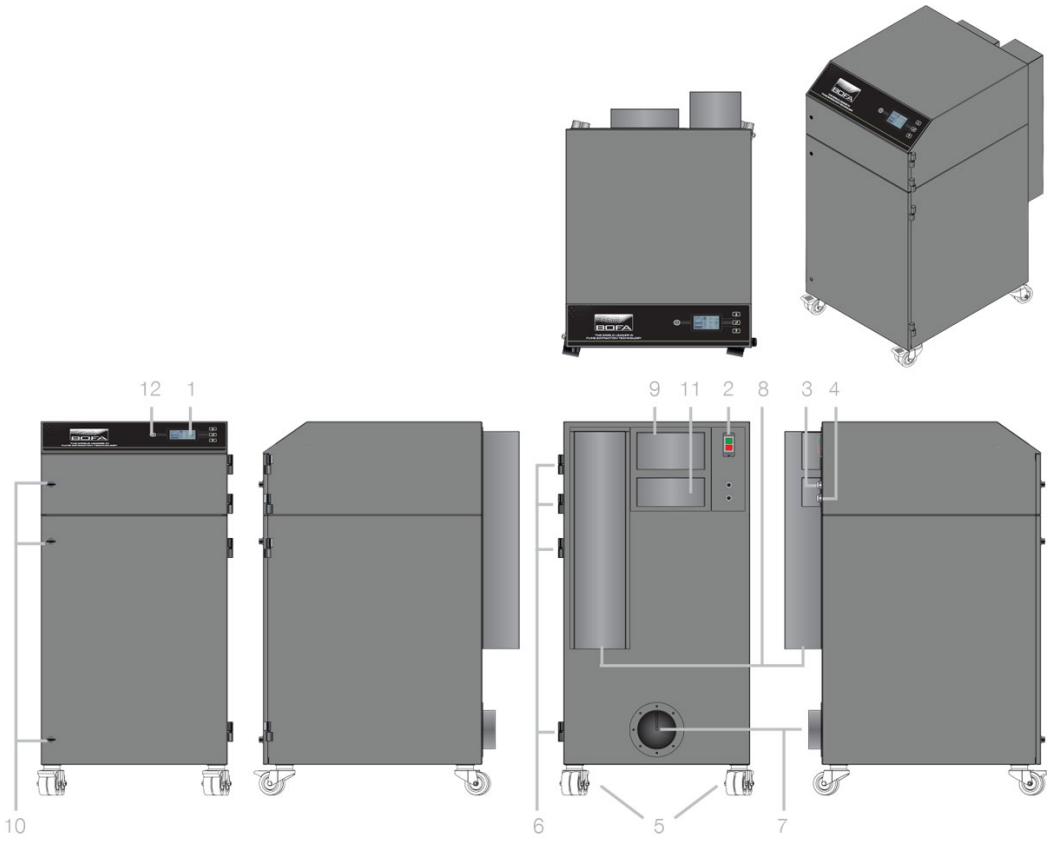
Filters with long life and low replacement cost
Standard

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

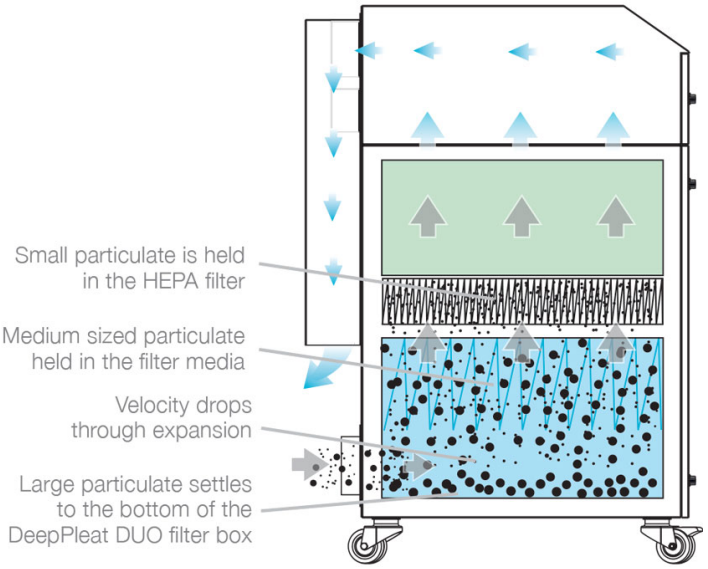
HEPA filter

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 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
Chinese

AD 1000 iQ
Japanese

AD 1000 iQ
German

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.

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A WORLD LEADER IN FUME EXTRACTION TECHNOLOGY

AD 1500 iQ

Last Updated on 01.02.2022

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

BOFA's AD 1500 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 Intelligent Operating System (iQ).

These take performance and safety parameters to a new level and helps keep maintenance, downtime and ownership costs 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 1500 iQ

iQ Operating system
Standard

High airflow and pressure rates
Standard

Reverse flow air filter technology
Standard

DeepPleat DUO pre-filter
Standard

Contact BOFA at **https://bofainternational.com/en/contact/**

https://bofainternational.com/en/portal/datasheets/ad-1500-iq/

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

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

Optional filter medias
Optional

Automatic flow control system
Standard

Independent filter condition monitoring, display and warnings
Standard

'Run safe' operation
Standard

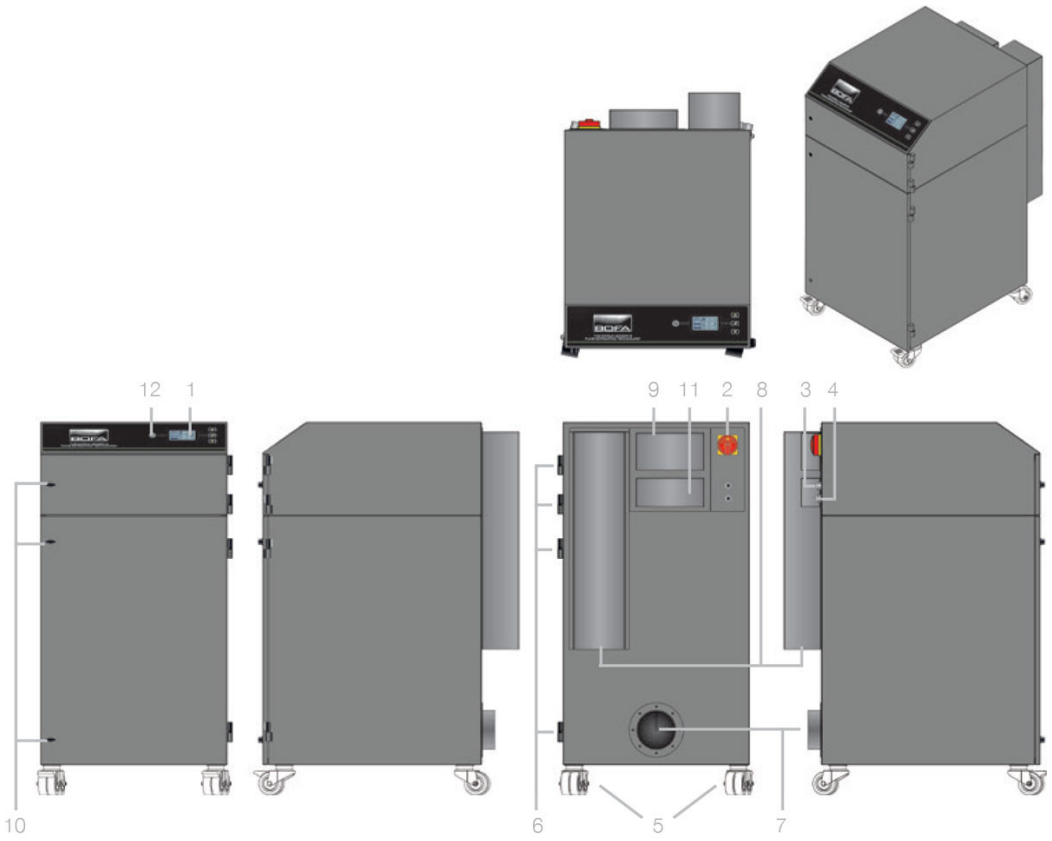
Filters with long life and low replacement cost
Standard

Remote stop / start interface
Optional

Interfacing with host laser
Optional

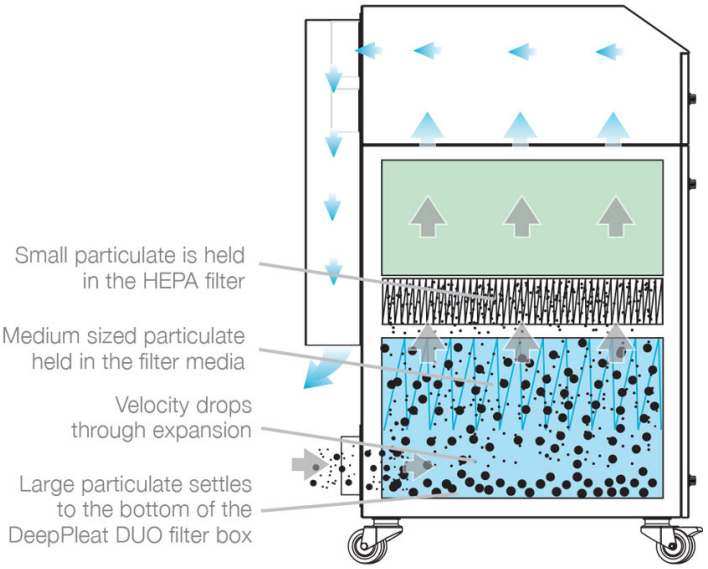
Technical specification

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
Dimensions (HxWxD)	1205 x 615 x 790mm (47.44 x 24.21 x 31.10”)
Cabinet construction	Brushed stainless steel / Powder coated mild steel
Airflow / pressure	1250m³/hr (735cfm) / 100mbar
Electrical data	230v single-phase 1~ 50/60Hz full load current: 24 amps / 3.3kw
	415v three-phase 3~ 50/60Hz full load current: 8.5A Pr phase / 14.5A neutral
Noise level	< 68dBA (at typical operating speed)
Weight	146kgs (322lbs)
Approvals	UKCA and CE / cUL / UL*

DeepPleat DUO pre-filter specifications

Surface media area	30m² approx (322.8 ft²)
Filter media	Borosilicate
Filter media construction	Maxi pleat construction with glue bead spacers
Filter housing	Zintec mild steel
Filter efficiency	95% @ 0.9 microns
Inlet size	125mm (0.41 ft)
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	Borosilicate
HEPA media construction	Maxi pleat construction with glue bead spacers

Combined HEPA / gas filter specifications

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
AD 1500 iQ powder coated	230V	L0862	A2001	A2002	A2003
AD 1500 iQ powder coated	3Ph	L0863	A2001	A2002	A2003
AD 1500 iQ stainless steel	230V	L0872	A2001	A2002	A2003
AD 1500 iQ stainless steel	3Ph	L0873	A2001	A2002	A2003

Replacement filter part numbers

Model	DeepPleat DUO pre-filter	Combined filter
AD 1500 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 1500 iQ
Italian

AD 1500 iQ
French

AD 1500 iQ
Chinese

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