Donaldson BOFA™

AD 500 iQ

Fume Extraction System - Advantage Range

Datasheet

Technical Specification and Product Information

A system for medium-duty laser applications.



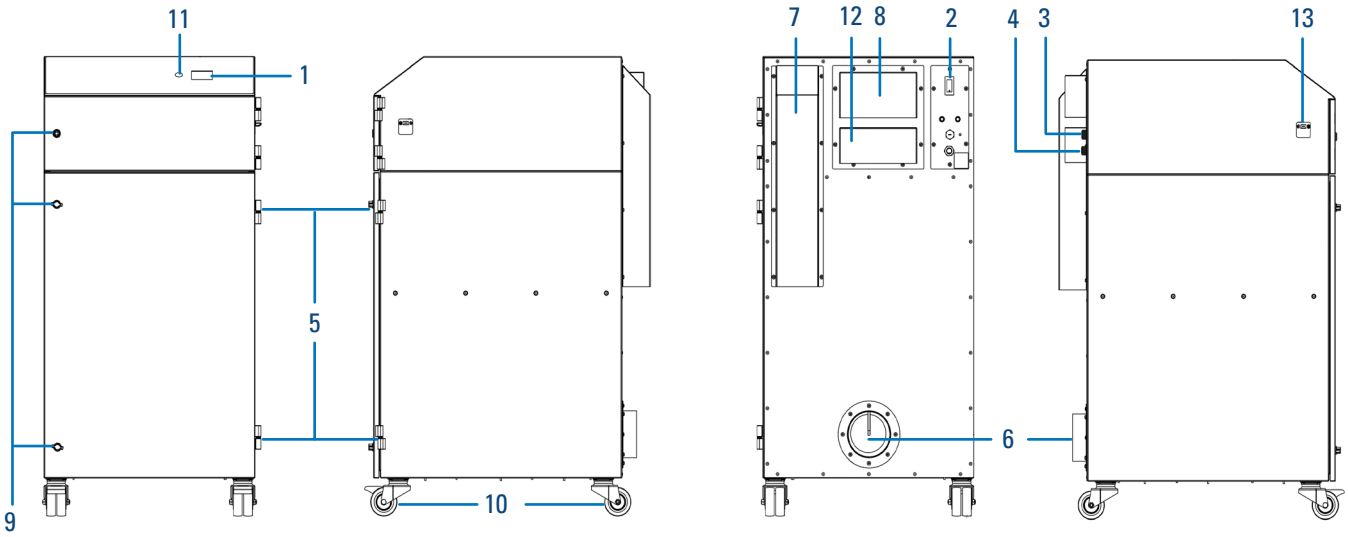
The AD 500 iQ fume extraction system is ideal for medium-duty applications that produce significant amounts of particulate. It offers a large filter capacity along with high airflow and pressure rates.

FEATURES

- Real-time airflow reading
- Independent filter condition monitoring
- High contrast display
- Remote diagnostics via USB
- Long-life, low-cost replacement filters

Approvals: UKCA and CE | cUL | UL*

TECHNICAL SPECIFICATION



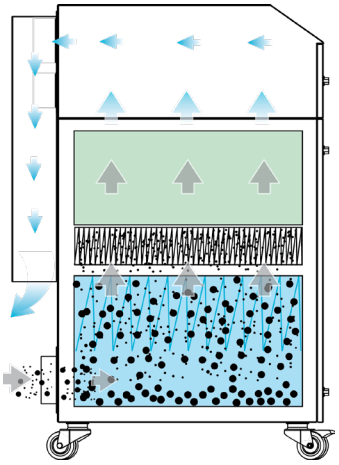
1. iQ display
2. On/off switch
3. Power cable
4. Signal/interface cable
5. Door hinges
6. Hose inlet connection - 4.92" (125 mm)
7. Exhaust outlet
8. Blower cooling inlet
9. Door latches
10. Castors
11. Standby button
12. Blower cooling outlet
13. USB port

TECHNICAL DATA

Voltage	Unrestricted airflow** (+/- 10%)		Settable airflow range***		Pressure (+/- 10%)	Dimensions (H x W x D)		Weight (+/- 5%)		Noise level****	Frequency	Full load current
V	cfm	m^3/hr	cfm	m^3/hr	mbar	in	mm	lbs	kg	dB(A)	Hz	amps
115	347	590	88-324	150-550	100	47.4 x 24.4 x 31.1	1205 x 620 x 790	292	142	< 60	50/60	14.8
230												9.5

AIRFLOW

- Pre-filter
- HEPA filter
- Chemical filter
- Clean filtered air
- Contaminated air
- Particulate



PART NUMBERS - SYSTEM

Description	Part number
Powder-coated, 230 V No options	1U30811511-1419
Powder-coated, 230 V 24 V S/S and SOK	1U630811511-1419
Powder-coated, 115 V No options	1U10810511-1419
Powder-coated, 115 V 24 V S/S, SOK and O/R	1U4660810511-1419
Stainless steel, 230 V No options	1U30106511-1419

FILTER SPECIFICATIONS

Model	Surface media area (approx)		Filter efficiency
	ft²	m²	
DeepPleat DUO pre-filter	322.8	30	ePM1 70%
Combined filter (HEPA)	80.7	7.5	99.995% @ 0.3 microns

Model	Activated carbon volume
	ltr
Combined filter (gas)	53.7

PART NUMBERS - FILTERS

DeepPleat DUO pre-filter	Combined filter
1UA1030222	1UA1030297

CUSTOMIZATIONS

Options

Power cables
Remote stop/start signal (S/S)
System OK signal (SOK)
Override (O/R)
VOC sensor
Exhaust box/exhaust spigot

Cabinet construction

Brushed stainless steel
Powder-coated mild steel (RAL7016)

Power cables

Type B
Type E
Type G
Type free ends

Compatible accessories:

Spark Arrestor 2
ILF 600

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

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

*** Settable range: Donaldson BOFA recommends utilizing the lowest flow rate that achieves the correct capture velocity for your application in order to maximize filter life.

**** Noise level: At typical operating speed.

Datasheet correct at time of publishing. Where applicable, the carbon used in Donaldson BOFA systems 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 Donaldson can affect the use and performance of Donaldson 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.

FS 643451
ISO 9001

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

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