

# **AD 1000 iQ**

Fume Extraction System - Advantage Range

# **Datasheet**

Technical Specification and Product Information

# A system for medium to heavy-duty laser applications.

The AD 1000 iQ fume extraction system is a perfect choice for medium to heavy-duty applications that generate large amounts of particulate. With a greater airflow than the AD 500 iQ, it also offers significant filter capacity.

### **FEATURES**

- Real-time airflow reading
- Independent filter condition monitoring
- High contrast display

Approvals: UKCA and CE | cUL | UL\*

Remote diagnostics via USB

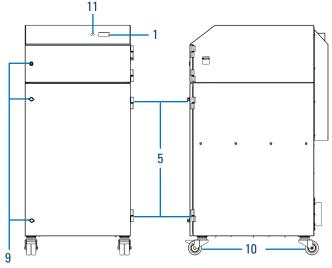
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· Long-life, low-cost replacement filters



13

# **TECHNICAL SPECIFICATION**



- iQ display 1.
- On/off switch 2.
- Power cable 3.
- Signal/interface cable 4.
- Door hinges

- Hose inlet connection 4.92" (125 mm) 11. Standby button 6.
- 7. Exhaust outlet
- 8. Blower cooling inlet
- 9. Door latches
- 10. Castors

- 12. Blower cooling outlet
- 13. USB port

### **TECHNICAL DATA**

\	/oltage	Unrestricted e airflow** (+/- 10%)		Settable airflow range***		Pressure (+/- 3%)	Dimensions (H x W x D)		Weight (+/- 5%)		Noise level****	Frequency	Full load current
	V	cfm	m³/hr	cfm	m³/hr	mbar	in	mm	lbs	kg	dB(A)	Hz	amps
	115	515	875	176-430	300-730	100	47.4 x 24.4 x 31.1	1205 x 620 x 790	324	147	< 85	50/60	19.5
230	230			148-500	250-850	60							12.5

#### **AIRFLOW**

Pre-filter

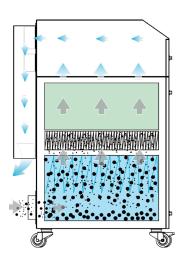
HEPA filter

Chemical filter

Clean filtered air

Contaminated air

Particulate



# **FILTER SPECIFICATIONS**

Model	Surface m (app	Filter	
	ft²	m²	efficiency
DeepPleat DUO pre-filter	322.8	30	F8 50% @ 0.3 microns
Combined filter (HEPA)	80.7	7.5	99.995% @ 0.3 microns

Model	Activated carbon volume	
Wodei	ltr	
Combined filter (gas)	53.7	

# **PART NUMBERS - FILTERS**

DeepPleat DUO pre-filter	Combined filter
1UA1030222	1UA1030297

#### **PART NUMBERS - SYSTEM**

Description	Part number
Powder-coated, 230 V No options	1U30811503-A-1419
Powder-coated, 230 V No option, USA plug	1U30811503-A-1419-US
Powder-coated, 230 V 24 V S/S, SOK, USA plug	1U630811503-A-1419-US
Powder-coated, 230 V 24 V S/S, SOK, O/R	1U4680811503-A-1419
Powder-coated, 115 V No options	1U10810503-A-1419
Powder-coated, 115 V 24 V S/S, SOK, O/R	1U4665810503-A-1419
Powder-coated, 115 V 24 V S/S, SOK, O/R, USA plug	1U4665810503-A-1419-US
Stainless steel, 230 V 24 V S/S and SOK	1U630106503-A-1419

### **CUSTOMIZATIONS**

Options	Power cables
Power cables Remote stop/start signal (S/S) System OK signal (SOK) Override (O/R) VOC sensor Exhaust box/exhaust spigot	Type B Type E Type G Type free ends  Compatible accessories:
Cabinet construction	Spark Arrestor 2 ILF 600
Brushed stainless steel Powder-coated mild steel (RAL7016)	

- \*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.
- \*\* 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.



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



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