



AD ORACLE  
LASER FUME EXTRACTION SYSTEMS

FUME EXTRACTION DIVISION

WORLD CLASS SOLUTIONS

# FUME EXTRACTION DIVISION

## AD ORACLE LASER FUME EXTRACTION SYSTEMS

The complete, global solution for high performance laser fume extraction.

Introducing the most technically advanced Laser Fume Extractor. The AD Oracle packs a powerful range of unique features into one compact unit.

The revolutionary Auto-Voltage Sensing Pump automatically self adjusts to run on any voltage worldwide, whilst the Reverse Flow filter technology enhances filter performance and ensures longer filter life.

Closed Loop, Automatic Flow Control allows the user to preset correct flow rates, for lower noise levels and further protection of both the combined filter and the 2 stage F8 pre filter, which has a massive 12m<sup>2</sup> of surface area.

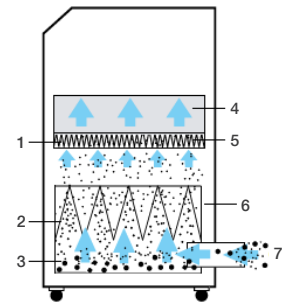


### STANDARD FEATURES

- Auto sensing voltage (90-257v) for global use
- Closed Loop Automatic Flow Control
- 2 Stage F8 Pre Filter with 12m<sup>2</sup> of surface area
- Reverse Flow
- 'Easi-Seal' Filter Location
- Small Footprint and Low Noise levels

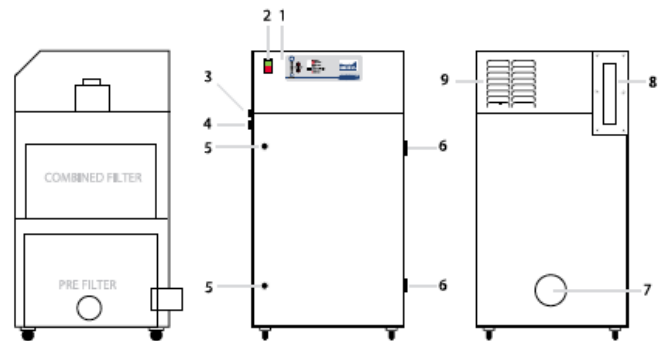
### AIRFLOW THROUGH FILTERS

1. Small particulate held in HEPA filter
2. Velocity drops through expansion
3. Large particulate settles to the bottom of the filter box
4. Full chemical layer used
5. Full HEPA material used
6. Medium sized particulates held in 12m<sup>2</sup> of filter media
7. Contaminated air



### TECHNICAL SPECIFICATION

- |   |                          |
|---|--------------------------|
| 1. Unit/Filter Condition Display - Automatic Closed Loop Flow Control | 6. Door Hinge            |
| 2. On/Off Switch  | 7. Hose Inlet Connection |
| 3. Signal/Interface Cable to Laser                                    | 8. Exhaust Outlet        |
| 4. Power Cable  | 9. Motor Cooling Inlet   |
| 5. Filter Housing Cam Latch   |                          |



### PART NUMBERS

MODEL	24V STOP / START		FILTER CHANGE /SYSTEM FAILURE SIGNAL	VOC MONITORING	HOSE KIT*
AD Oracle-SS	L1954A	L2142A	A2002	A2003	A1020008 75-50mm
AD Oracle-PC	L1944A	L2142A	A2002	A2003	A1020008 75-50mm

\*Other Hose Kits are available. All of the above units are fitted with our standard filter combinations. For specific applications

# FUME EXTRACTION DIVISION

## REPLACEMENT FILTERS AND ACCESSORIES

MODEL	PRE FILTER	COMBINED FILTER
AD Oracle	A1030156	A1030155

Other filters are available. Please call us for details.

## TECHNICAL DATA

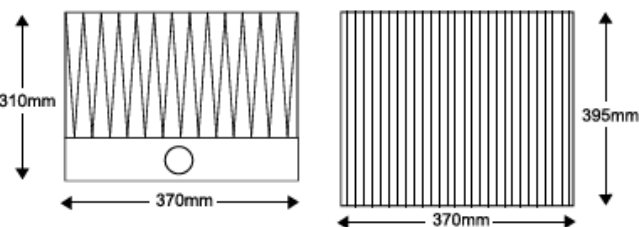
MODEL	AD ORACLE	
	EC	US
Dimensions (hxwxhd)	980 x 430 x 430 mm	38.5 x 17 x 17"
Cabinet Construction	Brushed stainless steel/ Powder coated mild steel	Brushed stainless steel/ Powder coated mild steel
Blower	1.1kw 380m3/hr	1.1kw 223cfm
Electronics	100-240v 1ph 50/60Hz Full load current: 12.5 amps	100-240v 1ph 50/60Hz Full load current: 12.5 amps
Noise Level	58dBA*	58dBA*

\*At typical operating speed.

## FILTER SPECIFICATIONS

### PRE FILTER

Surface Media Area	12m <sup>2</sup> approx
Filter Media	Glass Fibre
Filter Media Construction	Maxi Pleat
Housing	Zintec mild steel
Filter Efficiency	F8 (95% @ 0.8 microns)

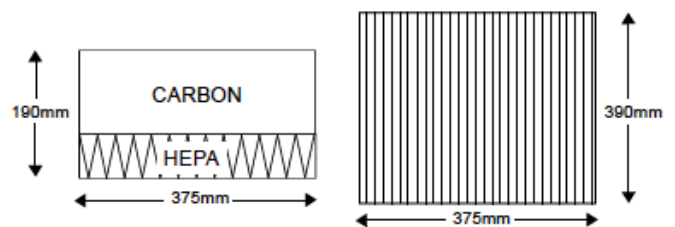


Pre Filter

## FILTER SPECIFICATIONS

### COMBINED FILTER

HEPA Filter Media	Glass Fibre
HEPA Media Construction	Maxi Pleat Construction with Webbing Spacers
Filter Efficiency	H13 (99.997% @ 0.3 microns)
Treated Activated Carbon	15kgs
Filter Housing	Zintec Mild Steel



Combined Filter