

# UAC 2000 & 4000

## Advanced Air Filtration Systems

The UAC 2000 & 4000 removes contaminated air from a laser system and filters out the smoke and fumes produced when processing materials. A four-stage filtration system effectively removes contaminants from the exhaust air.

Sensors visible on the front panel of the UAC monitor each stage and alert the user when filter media needs replacement. Variable-speed exhaust blowers maintain a constant air flow, as particle filters are consumed, first in the pre-filter then the HEPA filter. The third and fourth stage consists of carbon filters enabling the consumption of all carbon while effectively removing fumes and maintaining a safe, clean-air environment. The dual carbon filter design is unique and patented by ULS (Patent 9,155,988).

Additionally, an integrated monitor alerts the user to dangerous levels of carbon monoxide (CO) in the ambient air. At critical levels, the CO sensor will stop processing until the ambient air returns to a safe level.



## Superior Integration and Safety

### ▶ Integration:

- Seamlessly integrates with ULS systems.
- Available in two sizes, the UAC 2000 and the UAC 4000, to handle all ULS system and application requirements.
- User-friendly system interface requires relatively little instruction to operate.
- No tools are required to change filters.
- The laser system is in constant communication with the UAC, turning the blowers on and off with processing and reports status.
- Four stage filtration with a unique multi-sensing design continuously monitors air quality.
- High-capacity filters are designed for production environments.
- Extremely quiet operation.

### ▶ Safety:

- Onboard sensors prevent ULS laser systems from running a process in the event of a depleted or defective filter, a leak or if air quality cannot be maintained.
- Removes air-borne particles and volatile chemicals (VOCs) produced by laser processing.
- Unique dual carbon filter\* design maximizes utilization of active carbon media.
- Monitors ambient CO levels.
- To manage outgassing, a standby fan\* keeps fresh air moving through the filters when the system is not processing materials.

\* (patent pending)

# System Specifications

	UAC 2000	UAC 4000
▶ <b>Air Flow Active Filtration</b>	>150 CFM @ 9 in H <sub>2</sub> O	>300 CFM @ 9 in H <sub>2</sub> O
▶ <b>Air Flow Standby</b>	44.73 CFM @ 0.649 in H <sub>2</sub> O	
▶ <b>Duct/Pipe Diameter</b>	4 in Diameter	6 in Diameter
▶ <b>Filters</b>	<ul style="list-style-type: none"> <li>• One 24 in x 12 in, 5-pocket MERV 14 pre-filter</li> <li>• One 17 in x 17 in x 3 in HEPA filter</li> <li>• Two 20 lb. activated carbon filters</li> </ul>	<ul style="list-style-type: none"> <li>• Two 24 in x 12 in, 5-pocket MERV 14 pre-filters</li> <li>• 24 in x 24 in x 3 in HEPA filter</li> <li>• Two 30 lb. activated carbon filters</li> </ul>
▶ <b>Communication</b>	Modular plug cable for connecting with a ULS laser system.*	
▶ <b>Power</b>	110 VAC/15A max	210-230 VAC/15A max
▶ <b>Size</b>	Enclosure: 41 in x 24 in x 30.75 in Overall (including exhaust and intake): 41.5 in x 24 in x 39.25 in	Enclosure: 43 in x 30.75 in x 38.125 in Overall (including exhaust and intake): 43 in x 30.75 in x 41.25 in
▶ <b>Weight</b>	350 lbs.	525 lbs.

## Pre-Filter Technical Data

▶ <b>Filter Media</b>	Polypropylene
▶ <b>Filter Rating/Efficiency</b>	MERV 14/95% @ 3.0 micron particle size

## HEPA Filter Technical Data

▶ <b>Filter Media</b>	Fiberglass
▶ <b>Filter Rating/Efficiency</b>	99.97% @ 0.3 micron particle size

## Carbon Filter Technical Data

▶ <b>Filter Media</b>	Activated Carbon (specially treated for formaldehyde absorption)
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\* (patent pending)

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ULS laser systems are protected under one or more U.S. Patents: 5,051,558; 5,661,746; 5,754,575; 5,867,517; 5,881,087; 5,894,493; 5,901,167; 5,982,803; 6,181,719; 6,313,433; 6,342,687; 6,423,925; 6,424,670; 6,983,001; 7,060,934; 7,415,051; 7,469,000; 7,715,454; 7,723,638; 7,947,919; 8,101,883; 8,294,062; 8,599,898; 8,603,217. Other U.S. and international patents pending. Made in the U.S.A.

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MC003-0316 REV2016.03