UNIVERSAL®
LASER SYSTEMS

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 contaminates 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
Air Flow Active Filtration	>150 CFM @ 9 in H_2O	>300 CFM @ 9 in H_2O
Air Flow Standby	44.73 CFM @ 0.649 in H_2O	
Duct/Pipe Diameter	4 in Diameter	6 in Diameter
Filters	• One 24 in x 12 in, 5-pocket MERV 14 pre-filter • One 17 in x 17 in x 3 in HEPA filter • Two 20 lb. activated carbon filters	• Two 24 in x 12 in, 5-pocket MERV 14 pre-filters • 24 in x 24 in x 3 in HEPA filter • Two 30 lb. activated carbon filters
Communication	Modular plug cable for connecting with a ULS laser system.*	
Power	110 VAC/15A max	210-230 VAC/15A max
Size	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
Weight	350 lbs.	525 lbs.
Pre-Filter Technical Data		
Filter Media	Polypropylene	
Filter Rating/Efficiency	MERV 14/95% @ 3.0 micron particle size	
HEPA Filter Technical Data		
Filter Media	Fiberglass	
Filter Rating/Efficiency	99.97% @ 0.3 micron particle size	
Carbon Filter Technical Data		
Filter Media	Activated Carbon *(specially treated for formaldehyde absorption)*	

** (patent pending)*

USA
7845 E. Paradise Lane
Scottsdale, AZ 85260

+1 480-483-1214
moreinfo@ulsinc.com

Japan
The Yokohama Landmark Tower
15th Fl. 2-2-1-1 Minato Mirai
Nishi-ku Yokohama-shi
Kanagawa-ken 220-8115 Japan

+81 45-224-2270
japansales@ulsinc.com

Europe/Middle East/Africa
Lerchenfelder Gürtel 43
1160 Vienna, Austria

+43 1-402-22-50
eurosales@ulsinc.com

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