

**CLEAN AIR AMERICA**

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PROTECTING PEOPLE AND MANUFACTURING ENVIRONMENTS



**WELDING SMOKE SOLUTIONS**



## WE ARE THE EXPERTS

Clean Air America is the leading innovator of air filtration products, engineered for environmental and economic excellence. Our Weld Smoke Solutions are broad and offer benefits of lower maintenance and energy costs while improving morale and work environments by protecting workers and equipment from potentially hazardous contaminants.

## TURN-KEY SOLUTIONS

- ✓ FULLY DESIGNED & ENGINEERED SYSTEMS
- ✓ IMPROVED PLANT CLEANLINESS
- ✓ MINIMAL USE OF FLOOR SPACE
- ✓ MINIMIZED ENERGY CONSUMPTION
- ✓ ENHANCED EMPLOYEE MORALE
- ✓ INCREASED PROFITABILITY



ALL PRODUCTS ARE MANUFACTURED IN-HOUSE, AMERICAN MADE IN ROME, GEORGIA, ALLOWING US TO CONTROL QUALITY, CONSISTENCY, AND CUSTOMIZATION. WHEN COMBINED WITH CLEAN AIR AMERICA'S DECADES OF INDUSTRY EXPERIENCE, WE TRULY ARE *UNIQUE* – LET US SHOW YOU HOW.

## TRUSTED CUSTOMER PARTNERS







# BRAHM™ COLLECTOR

*Specialized Solutions for Fume Extraction in Laser Welding & Cutting Industries*



## STANDARD FEATURES

**Ideal for Welding, Grinding, Sanding, Laser / Plasma Cutting Fume and Dust**

**Self-Contained for Easy Install and Improved Safety**

**Limited Footprint Preserving Valuable Floor Space**

**Adaptable for Traditional Ducted System or Push/Pull Streamer Design**

**Extended Filter Life versus Alternative Designs**

**Lowest Filter Replacement Cost in the Industry**

## OPTIONAL

**Synapse™ Panel:** Custom HMI / PLC panel that combines a VFD with Human Interface Technology

**Remote Monitoring:** Sensor driven operational monitoring of static pressure, fan amperage, heat & smoke detection

**Scheduling:** Automatic or Scheduled Pulse Cleaning for minimized compressed air consumption

**High Efficiency Filtration:** Improved filter life and operating performance with Merv 15 Nanofiber Technology

**VFD:** Variable Frequency Drive for soft-start and improved operating efficiency

**Fire Suppression:** Smoke and Heat Detection with Dry Chemical Agent



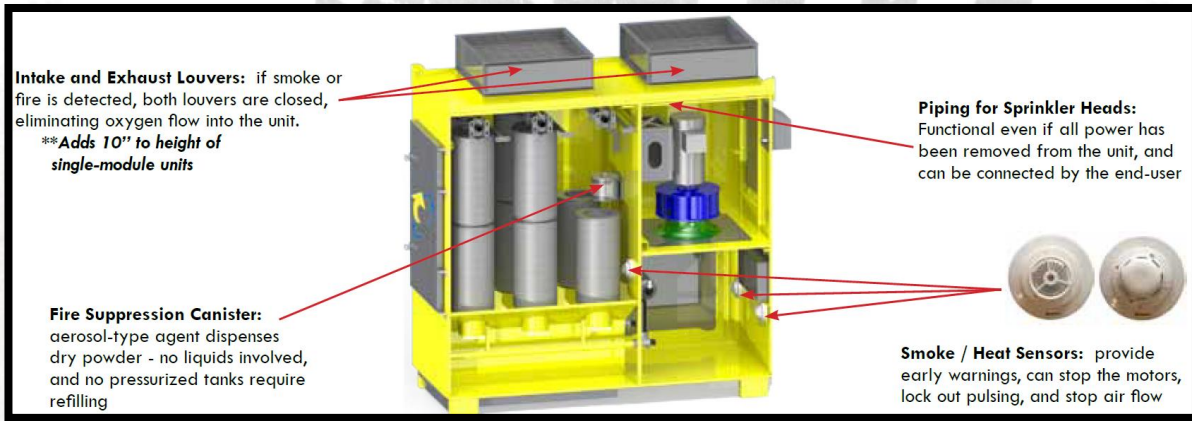




# FIRE SUPPRESSION OPTIONS

*Enhanced Safety for Operating Environments*

Clean Air America's *Fire Suppression System* has been designed with a combination of smoke and heat sensors that can be placed throughout the units. Smoke sensors provide an early warning, stop the motors, lock out pulsing, and suppress the air flow by closing louvers on both the intake and exhaust of the unit. Our dry chemical suppression agent is not dispensed unless the fire has been verified by the heat sensors without the use of potentially damaging liquids. On VFD-incorporated units, the *Fire Suppression System* is tied in with the drive, thus allowing the system a quick and controlled stop of the motors and blowers. For those desiring additional protection, sprinkler heads can be installed at the request of the end user. All collectors come standard with filters utilizing media impregnated with fire retardant resin.



## IN-LINE SPARK ARRESTOR

Before reaching the filter chamber, a spark arrestor may be utilized by mounting the cooler to the duct line. Spark Arrestors provide a deflection and dropout point and reduce air speed with minimum pressure drop losses through the duct.



## BAFFLE BOX

An optional Baffle Box can add additional protection. Inlet boxes include baffle plates and wire mesh filter technology to add further protection against high-risk sparks





# LIBERTY SERIES WELDCELL™ WC-8

*Premier Dust and Fume Extraction Solutions for Manufacturing Environments*

## STANDARD FEATURES

**Ideal for Robotic Weld Cells and Customizable  
with Oasis™ Flat Hoods**

**Limited Footprint Preserving Valuable Floor Space**

**Plug-and-Play Functionality for Easy Install**

**Industry-Leading Internal Static Pressure and  
Lower Can Velocity**

**Enhanced Filter Life with Higher Active Filter Area and Improved  
Dust Release**

**VFD Standard for Soft Start, Increased Energy Savings, Noise  
Reduction, and Speed Control of the Motor**

**Convertible into Ambient Units**

## SPECIFICATIONS

**Air Flow:** 6,000+ CFM

**Filter Cartridges:** Qty (8) Fire Retardant Filters in Merv 15 Nano Media

**Compressed Air:** 1" NPT Compressed Air connection – 70-90 PSI required

**Power:** Three Phase – 208, 240, or 460 Volt, 6A – 19A

**Silencing:** 65 – 78 dBA at 5'

**Dimensions:** 42" x 46" x 183"

**Weight:** 2,350 lbs – 12-Gauge Solid Weld Construction

**Fire Suppression:** Optional

## MOTOR CONFIGURATIONS

**Motor:** Available in 10-20HP

**Blowers:** Configurations capable of achieving 4,000 – 8,000 CFM







# CLEAN AIR HOODS

*Customer Canopy Solutions for Improved Source Capture*

## BOLT-TOGETHER HOOD

Source capture starts with controlling the area in question – properly sized hoods can significantly improve the likelihood of capture, reduce the effective area of filtration, and dramatically reduce the size of fume extraction system required for your equipment.

Clean America hoods consist of a bolt-together panel system, easily integrated into duct work. Traditional hoods come standard with an intake baffle plate to help prevent sparks from entering the ducting system and can be easily disassembled in order to clean when desired.

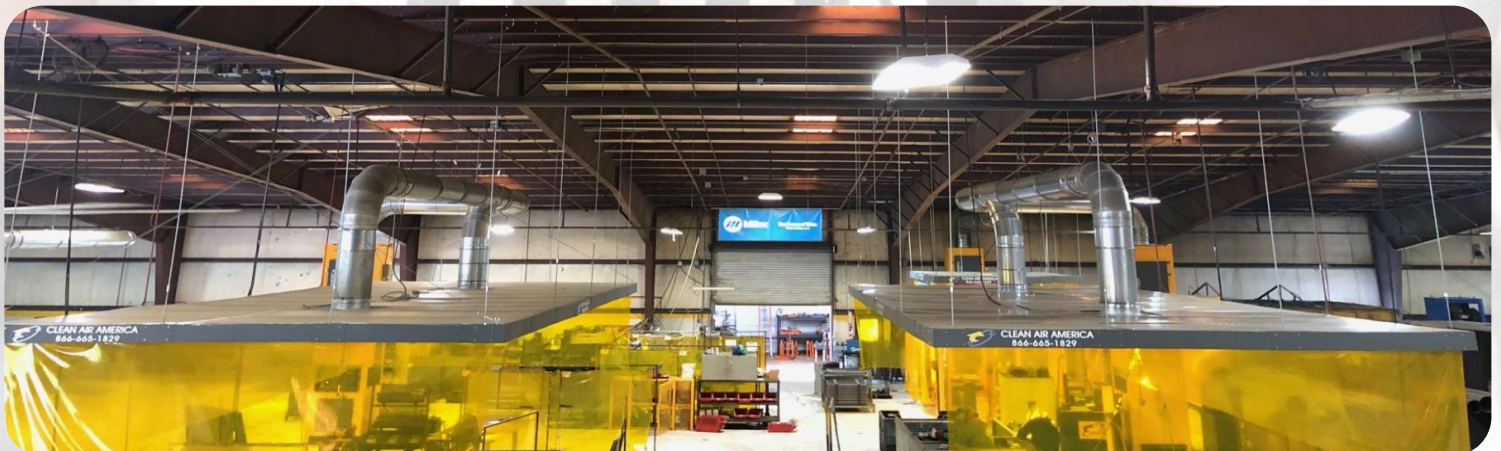
Traditional bolt-together hoods are made to be hung but can be outfitted onto leg stands if desired.



## OASIS™ FLAT HOOD

Clean Air America Oasis™ Flat Hoods offer next-level customization. Lighter weight than their bolt-together counterparts, Oasis™ systems are built of durable steel with a transparent polycarbonate top panel.

Oasis™ systems are easily customizable for unique modules and seamlessly integrate into duct lines. As with all Clean Air America Hoods, we strongly recommend incorporating weld curtains for improved source containment.





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Clean Air America -- 7 Superior Drive SE, Rome, GA 30161 – [www.Clean-Air.com](http://www.Clean-Air.com)

Sales@Clean-Air.Com – 866.665.1829