CLEAN AIR AMERICA

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.







BRAHMTM 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





183"

46"

Proudly Made in the USA

SUD

CLEAN AIR AMERICA

42"

AWS



LIBERTY SERIES WELDCELLTM WC-8

Premier Dust and Fume Extraction Solutions for Manufacturing Environments



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 AMERICA

SEID

42"

AWS

141"

46'

Proudly Made in the USA

LIBERTY SERIES WELDCELL[™] WC-4

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: 4,000 – 5,000 CFM Filter Cartridges: Qty (4) 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 141" Weight: 1,950 lbs – 12-Gauge Solid Weld Construction Fire Suppression: Optional

MOTOR CONFIGURATIONS

Motor: 7.5 HP

Blowers: Configurations capable of achieving 4,000 - 5,000 CFM





CLEAN AIR HOODS

Custom 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.

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OASIS[™] FLAT HOOD

Clean Air America Oasis[™] Flat Hoods offer enhanced 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.



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 VFDincorporated 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







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