

Clean Air Cut Cell™



Clean indoor air begins at the Production Line

Clean Air America, Inc. has successfully applied
**A New Generation of Plasma and
Laser Fume Control Systems** to hundreds
of heavy-manufacturing Plasma and Laser cutting
applications over the years.



Clean Air Plasma CutCell™ Solution



Plasma and Laser
**Clean Air Filtration
Control Systems™**

We're a green company!





Clean Air Cut Cell™

Applications: Laser Cutting, Plasma Cutting, Welding, Grinding & a Variety of General Dusts

The Clean Air Plasma and Laser Cut Cell™ Solution is an exclusive line of cartridge collectors engineered for high static conditions in production plasma or laser cutting.

Designed specifically for Laser and Plasma applications, Clean Air Filters are engineered to effectively pulse off (clean) for an extended filter life. The system uses the enhanced Down-Flow Technology with filters positioned vertically.

The collector series is the most compact in the market for the power it delivers by using backward incline blower wheels with direct drive energy efficient motors that are located inside the collector. Several models are available ranging from 4-24 cartridge systems (1,000-20,000 cfm). The collectors are built out of heavy gauge steel that will handle many years of use in a 24/7 manufacturing environment.



Clean Air Plasma and Laser CutCell™ Solution



Customers report excellent efficiencies and extended filter life...



Plasma Cutting



Laser Cutting



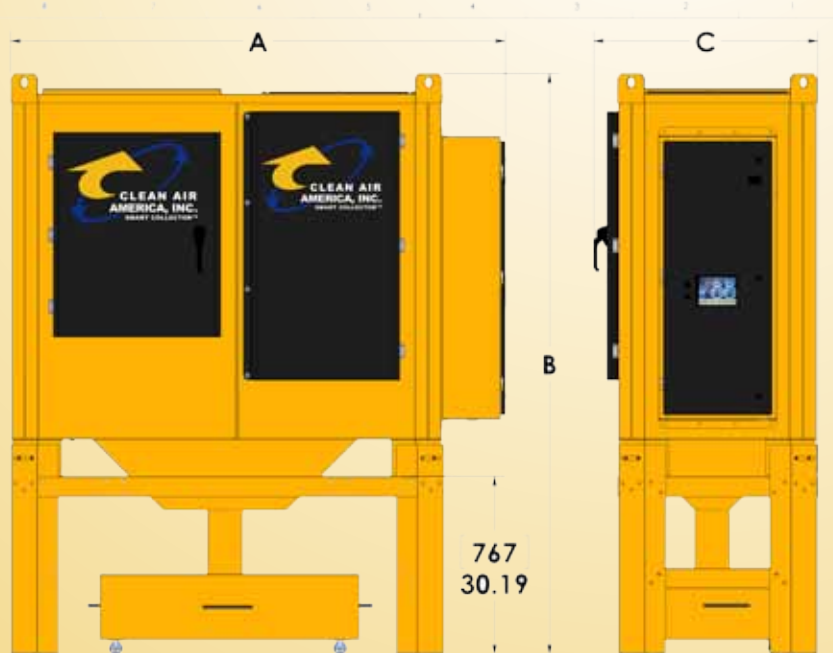
Clean Air America – Engineering Innovation in Air Filtration

The **Clean Air Smart Collector™** is a completely NEW generation of cartridge collectors, suitable for a wide variety of applications that are superior to all other designs on the market. It features up to 50% better filter lifetime vs. other vertical style collectors and 75% better vs. horizontal designs. The **Clean Air Smart Collector™** has the lowest overall TCO (*Total Cost Of Ownership*) on the market!

The collector can be combined with the **Clean Air Smart Panel** to include the **Clean Air LEAF™** (*Low Energy Air Filtration*) system that will let you experience upwards of 80% less energy used in your equipment.

A production line with a crystal-clean air is just one of all the good things a Clean Air Smart Collector™ can bring to your company.

- Updated technology increases filter life
- Lower TCO and energy Savings
- Compressed air savings
- Floor space is premium; this is the most powerful compact design on the market.
- Constant air to cloth ratio (using the Smart Panel's LEAF) to provide superior performance
- Lowest overall noise level due to internal motor/blower in a compartment fully lined with high-yech noise abatement



Unit	Filters	HP	CFM	Weight (lbs)	A	B	C	Legs
SC4	4	3 to 7.5	880-2640	1,400	84"	99"	38"	30"
SC8	8	3 to 10	1500-6000	1,550	84"	125"	38"	30"
SC12	12	5 to 15	2000-8000	1,750	100"	125"	38"	30"
SC18	18	5 to 20	4000-12000	2,350	100"	125"	54"	30"
SC24	24	7.5 to 25	5000-16000	2,950	100"	125"	69"	30"

Clean Air Smart Collector Specifications Table

Clean Air Cut Cell™

The Most Advanced Technology

NANO FIBER FILTER TECHNOLOGY

Clean Air Smart-Flow™ Technology

A revolutionary design that takes Down-Flow principle and improves it in various areas with results in best performance, longer filter life, lower overall pressure drop and less energy consumption.

Filters

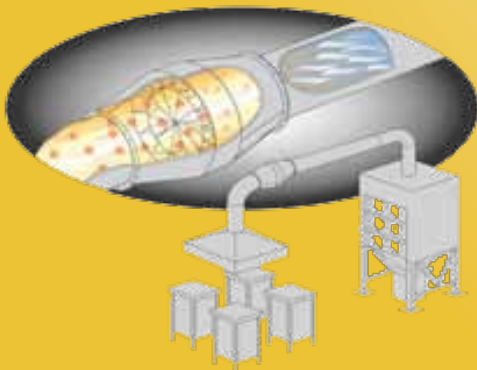
Nano Fiber Filters are of excellent construction, matching the best available. We precondition these filters with a unique process which has proven worthy over time. Customers report excellent efficiencies and extended filter life.



Specific Solutions in **Air Filtration** Smart Flow Technology™

Options:

The Spark Cooler is ideally suited to mitigate sparks generated in metal and other low-load material processing applications, under non-explosive conditions. The Spark Cooler is not a fire extinguishing system and should never be relied upon to achieve spark eradication in processes where suppression requirements are absolute.



As an ignition-source mitigation device, the Spark Cooler is unique in its performance offering. In metal-related processes, with non-agglomerating materials, the Spark Cooler offers effective spark mitigation (as evidenced by the figures above), minimal pressure drop (less than 1"), zero footprint or space requirement on the shop's floor, simple installation (no controls or calibration required), vertical or horizontal positioning, zero maintenance or breakdown (no moving parts), and continuous operation (which results in no system downtime and no energy use).

Clean Air Smart Sensor monitors filters performance detecting any variation or malfunction to reduce problems and production downtime.

The **Clean Air Smart Collectors™** are designed for weld smoke, grinding particles, laser and plasma cutting dust and various other mainly dry filtration applications. With a variety of sizes ranging from 4 up to 48 cartridges and air volume of 500 up to 30,000 cfm and more.

Features and Benefits:

Clean Air America is the leading innovator of air filtration products engineered to provide both environmental and economic function. Better technology provides economic advantages such as lower maintenance and energy costs. Better technology also improves the work environment, protecting workers and equipment from potentially hazardous contaminants.

Our Solutions Provide:

- Cleaner air in Cut Cell area
- Greater energy savings
- Smart Collector is ideal for laser and plasma cutting tables as it has high static pressure fans that deliver higher cfm for longer than competition.
- Quick change filter access
- Fewer filter changes
- An internal drop out area inside the collector (unique)
- Nano fiber filters for superior filter cleaning and efficiency.
- Smart-Flow Technology using air entering the top, forming a laminar flow, slow air movement inside collector, resulting in the best performance, longest filter life time in the industry.
- Lower cost per cubic foot of air
- Clean Air VFD™ (Variable Frequency Drive), reduces energy consumption by as much as 50%. Increases filter life by as much as 50%. Longer filter life reduces filter costs while decreasing annual maintenance costs.
- Quiet operation of 70-75 dBA on most models.
- Less Maintenance
- Compact design with internal fan arrangements and direct drive premium efficiency motors.



Laser Cutting

Clean Air America, Inc. offers a complete range of solutions for your Laser Cutting needs.

Plasma Cutting - generates a very toxic smoke that could affect workers' productivity and lead to serious health problems. Contact Clean Air America for a full production line assessment to determine the best solution for your needs.



HIGH PERFORMANCE SMOKE, DUST, MIST & ODOR CONTROL SYSTEMS

Our Principal Products



WeldStation Top of the line welding smoke removal booth for premier training and manufacturing facilities.



Weld Cell Used for welding smoke removal from welding robots and plasma cutting robot cells. Several sizes are available. Self-contained and very easy to move as needed. The entire system can be mounted on the welding robot platform.



Clean Air ZeroMist™ Our most efficient oil mist and smoke removal system with advanced fiber-bed technology and a variety of sizes available.



SC™ The smart collectors are designed for weld smoke, grinding particulates, laser and plasma cutting dust and various other applications mainly dry filtration applications. They come in a variety of sizes ranging from 1-48 cartridges and air volume of 500-30,000 cfm and more.



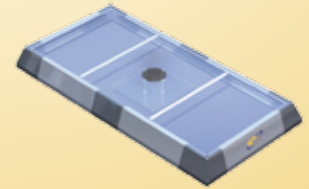
Hose Reel Clean Air provides a handy working solution for exhaust fumes expelled from stationary vehicles, where the hoses are out of the way and when the extractor is not in use



High Vacuum Several models are available for vacuum cleaning and source extraction from handheld power tools.



Portable Fume Collector Offers a high level of filtration and extraction capacity. Available in 8" diameter duct and 6', 10' or 13' feet arm lengths. Easy to use and with a single-phase 110 volt plug connector.



Hood a variety of sizes available, modular design with plexiglas or sheet metal tops. Clean Air Hoods are custom-made to fit your cell.



Fume Arm Local extractors for all types of work sites where flexible design and efficient extraction are important. The Clean Air Fume Arm has a stable construction and is equipped with a gas spring that balances the dead weight of the arm.



Flexi-Booth™ Used for manual welding, grinding, sanding applications and are available in a variety of sizes ranging from 5' - 12' wide and different heights.



DFX™ Used for light to medium duty applications in welding, grinding, sanding, rubber smoke and odor control using a variety of filter technology. The systems come in a variety of sizes ranging from 500 - 8,000 cfm.



Down-Draft Table Extremely powerful for its compact size. Housing a high efficiency filter and a capture velocity above 200 feet per minute, it is one of the most powerful on the market.

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