

BRAHM™

COLLECTOR SERIES



Working together for a crystal-clean production line

#1 in Welding Smoke, Oil Mist & Oil Smoke Removal
Best in Class for Innovative Products and Services



CLEAN AIR HiVAC
FUME & SMOKE EXTRACTION
for Production Welding Applications



PROUDLY MADE IN THE USA

7 Superior Drive, Rome, GA 30161 | (706) 291-1700 | (866) 665-1829
www.clean-air.com | sales@clean-air.com



Why Clean Air America?



Clean Air America is a manufacturer of a complete line of industrial air filtration systems, perfect for welding smoke, fumes, oils and dust. Customized solutions are created by our expert design engineers and manufacturing professionals, so that even in heavy production you can have air that is "crystal clear".



UL 508A:2005 CAN
CSA C22.2 No. 14:2005



With more than 25 years of proven designs and installations, Clean Air America is the clear choice for industrial ventilation solutions for manufacturing, vocational, and educational facilities. Providing quality, application-specific solutions for welding smoke/fume, dust collection, and coolant mist, oil smoke, and oil mist processes, Clean Air America, Inc. has designed these systems with exceptional quality, high-efficiency, and durability in mind. We provide units that withstand a 24/7 manufacturing environment and outperform other competitor's technology and conventional systems on the market. As a tribute to the memory of company founder Bertil Brahm, the **Clean Air BRAHM™ Collector Series** was introduced in 2017.

Clean Air America, Inc. is the best in class for:

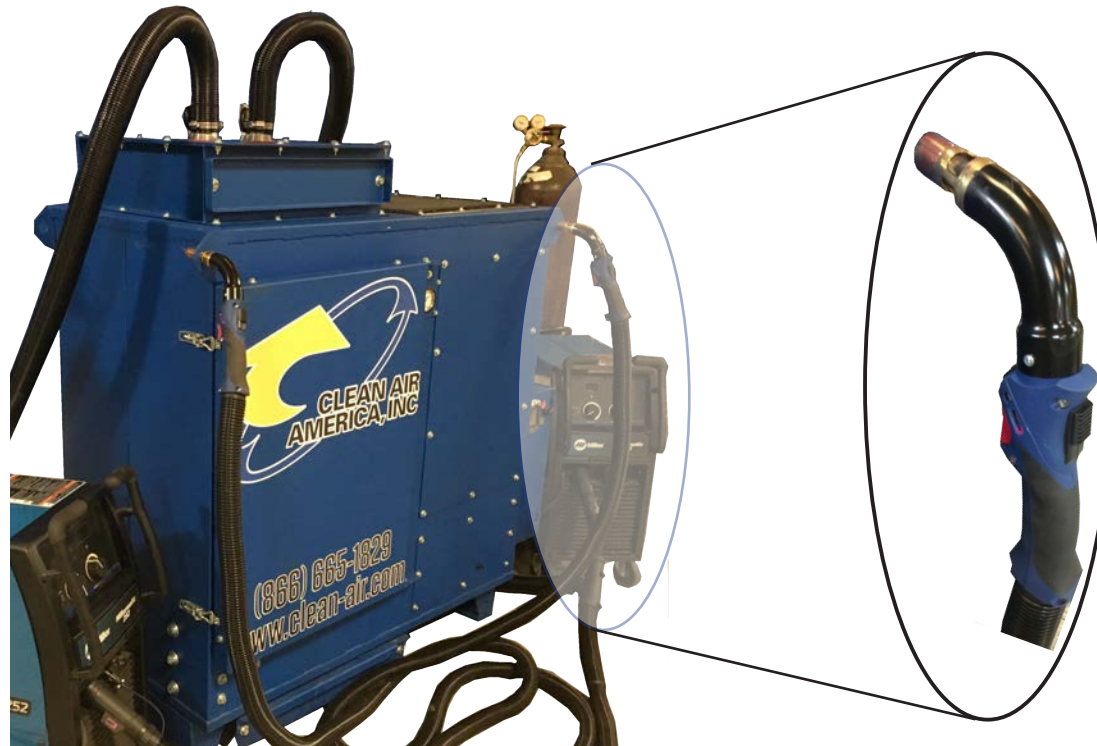
- 100% turnkey service from start to finish
- Efficient design with minimal impact to plant layout, maximum energy conservation, compliance with regulations, minimal maintenance, and maximum collection efficiency

Clean Air America, Inc. is recognized by global manufacturing companies as innovators and best-of-breed for high-tech welding booths, manual and robotic welding smoke removal, dust and fume collectors, and high performance oil mist collectors. All Clean Air America, Inc. products are proudly made in America.

Introducing the

CLEAN AIR BRAHM™ HiVAC FUME & SMOKE EXTRACTION COLLECTION

- Snuffs out welding fumes at the source
- Reduces welder's exposure to welding fumes by more than 90%
- Prevents fume buildup when working in enclosed or small areas



The BRAHM™ HiVac™ Collector is designed for use with 4-6 fume guns

High vacuum (Hi-vac) capture and filtration of welding fumes is a method of controlling such fumes directly at source.

It involves the use of a special type of welding gun or by the use of tool attachments. The fumes are extracted directly on the welding gun and filtered by a remotely located Hi-vac filtration system.



Source extraction - specifically fume gun extraction - can be the best way to protect the breathing zone from welding fumes for welders engaged in MIG or GMAW welding processes — especially those working on or inside large equipment.

The **Clean Air BRAHM™ High Vacuum Fume Extractor** offers high-efficiency options for controlling airborne pollutants in small to medium fabrication shops, manufacturing plants, and training facilities. Welding fumes are captured with vacuum-assisted MIG guns, and decontaminated air is recirculated back into the workspace area.

The Best Solution for High Vacuum Source Capture and Filtration

When power and mobility are required, Clean Air America's BRAHM™ HiVac system is the optimal solution.

The Clean Air BRAHM™ HiVac system features high-vacuum filtration at the precise spot where you need it.

Features:

- NEMA 12 electrical enclosure with integrated disconnect switch, motor starter, overload, and start/stop button.
- Fully welded 10 & 12 gauge steel
- (4) or (6) 2" hose connections
- 330 sq. ft. filtration media
- Compressed Air Filter Cleaning
- Built-in Spark Arrestance
- High-Vacuum Blower
- Acoustic Silencing
- Designed for ease of use - plug and play
- Minimal maintenance with Clean Air's patented True Down Flow Technology
- Quiet - 75 dBa @ 5'



**Vac hose priced separately as lengths and preferences vary.*

Key Components of the Clean Air BRAHM™ HiVac Series

- **Filters:**

Flame retardant cartridge filters capture the smoke or dust particles cleaning it to well below OSHA and international air quality standards.

- **Motor/Blower:**

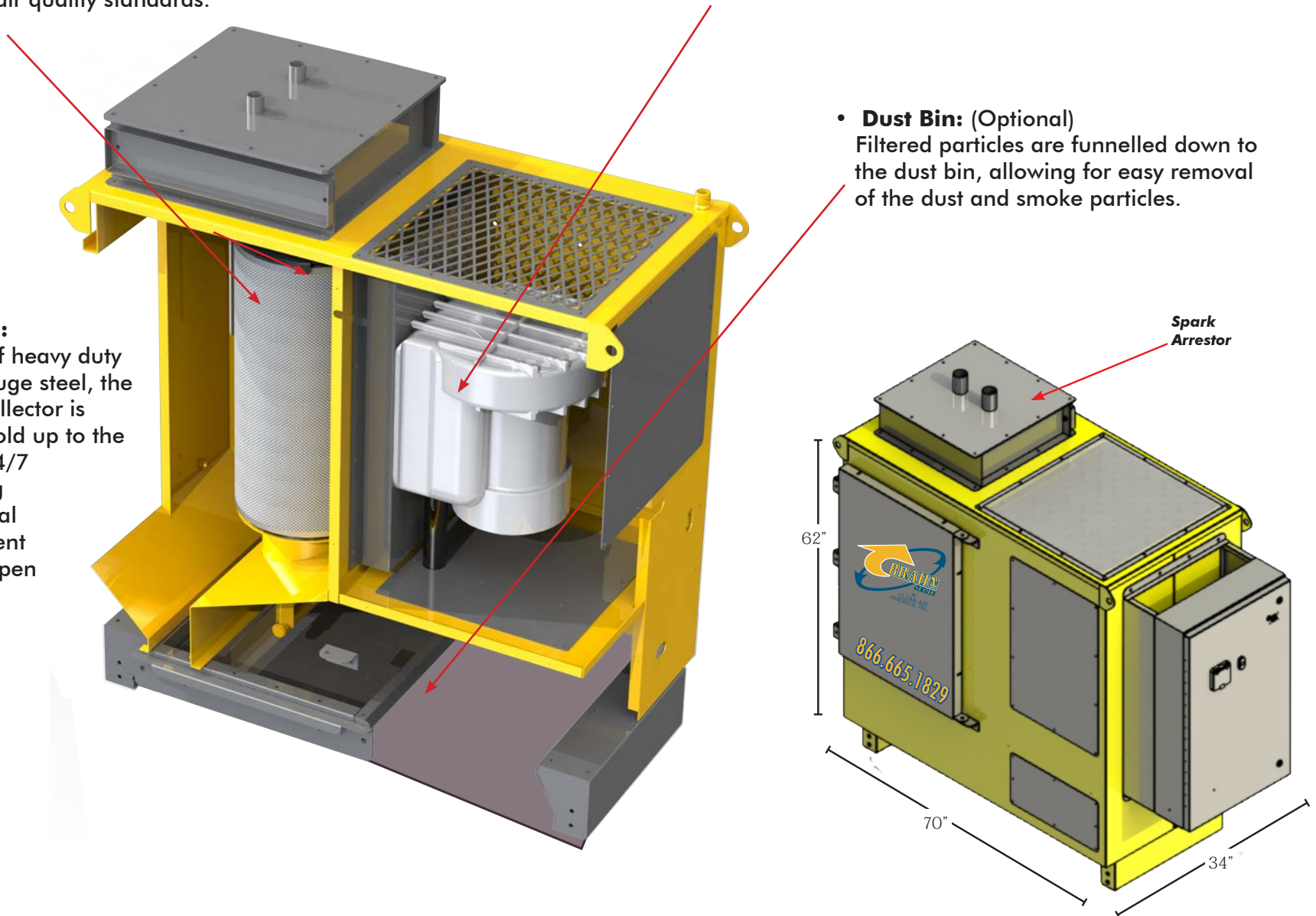
Continuous duty rated, single stage, regenerative blower with integral 28.55HP, 60Hz, 3-phase TEFC motor featuring aluminum blower design, built-in silencers, and NPT connections.

- **Construction:**

Constructed of heavy duty 10 and 12 gauge steel, the body of the collector is designed to hold up to the rigours of a 24/7 manufacturing facility. Internal noise abatement added to dampen noise.

- **Dust Bin: (Optional)**

Filtered particles are funnelled down to the dust bin, allowing for easy removal of the dust and smoke particles.



Clean Air BRAHM™ Filters

Down Flow Technology, combined with an effective pulsing system, gives even the standard filter a longer filter life vs. competitors. But, you can achieve even greater filter life by upgrading to a NanoFiber or PTFE filter. These filters have a unique filter media that allows for easier pulsing off of particulate, greatly increasing filter life compared to the standard filter.

The standard 80/20 filter used by Clean Air America is a premium blend of flame retardant cellulose/polyester blend media. This filter helps ensure longer filter life, cleaner air, and increased savings on replacement costs over the lifetime of the unit. This filter is appropriate for oily applications.

Filter Media:	80/20% polyester, flame retardant
Inner Cage:	Galvanized expanded metal
Outer Support:	2 outer support bands
Max. Operating Temp:	180 Degrees Fahrenheit
Filter Size:	12.75" OD X 8.38" ID x 26" H
Filter Size:	330 sq. ft.
Efficiency:	MERV-11



FILTER UPGRADE: The nanofiber filter is an 80/20 cellulose/polyester media filter that is enhanced with a nanofiber membrane around the filter media. The nanofiber membrane gives the media excellent filtration efficiency and dust release capabilities. This filter helps ensure longer filter life, cleaner air, and increased savings on replacement costs over the lifetime of the unit. This upgrade is designed for when higher efficiency is needed.

Filter Media:	Nanofiber, fire retardant
Inner Cage:	Galvanized expanded metal, 72% open
Outer Support:	2 outer support bands
Max. Operating Temp:	180 Degrees Fahrenheit
Filter Size:	12.75" OD X 8.38" ID x 26" H
Filter Size:	275 sq. ft.
Efficiency:	MERV-15



FILTER UPGRADE: The PTFE filter is a heavy duty synthetic spun bond filter with a high efficiency PTFE membrane covering the media. The PTFE membrane not only increases efficiency but also the dust releasing capabilities for superior cleaning. The PTFE media is washable, extremely rugged, and resistant to abrasives. This filter is designed for stainless welding and other weld processes requiring higher efficiency filtration.

Filter Media:	100% spun-bond polyester, flame retardant
Inner Cage:	Galvanized expanded metal
Outer Support:	2 outer band support
Max. Operating Temp:	275 Degrees Fahrenheit
Filter Size:	12.75" OD X 8.38" ID x 26" H
Filter Size:	273 sq. ft.
Efficiency:	E-11, 99.66% at .03 micron HEPA



Advantages of Vertical Filters

By using filters that are placed vertically instead of horizontally, greater efficiency with a longer filter life is achieved. These vertical filters allow particles that are pulsed off to fall with the flow of air, decreasing the occurrence of re-entrainment. Vertical filters also utilize the entire filter area evenly; this prevents the top 1/3 of the filter becoming saturated as happens with horizontal filters.

In certain applications, the Clean Air BRAHM™ HiVac system with fume guns is part of an overall solution that might contain ambient, push-pull, and Clean Air Streamer™ products to completely eliminate residual smoke and contamination.



Clean Air DFX

This unit can be used either as a stand alone system for a smaller area or in a series of DFX units that are placed in a circular air flow pattern around the facility. The DFX system requires ZERO duct work and is versatile enough to handle a wide variety of applications. These units can be hung from the ceiling, mounted on the wall, or placed on legs, depending on the layout of the facility.



Clean Air Streamer

The Clean Air Streamer works in pairs to create a continuous airflow of clean air throughout the facility.

This system utilizes two important parts of the system for optimum filtration. The bottom of the system houses an inlet with metal baffles that draw the dirty air into

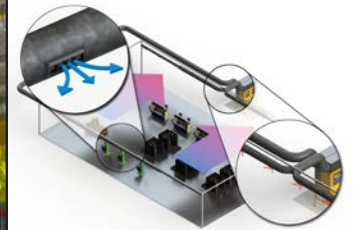
the system for filtration. This air is run through the cartridge filters housed inside of the system. The clean, filtered air is then pushed out of the through drum louvers. This push creates a wall of clean air that pushes the dirty, smoky air towards another Streamer unit to be filtered.



Clean Air Push Pull System

Powered by a Clean Air BRAHM™ Collector, the Clean Air Push Pull System utilizes a series of ducts with intake and exhaust louvers connected to a central collector to create the air flow pattern in the facility.

This system is customized for each facility based on the layout and current air flow pattern of the area. Extraction and recirculation duct is placed opposite each other to create a wall of clean air.



Clean Air America solutions are trusted by these prestigious partners:

