



## *Innovation In Air Filtration*

### **Clean Air DFX**

### **Wall Mounted Or Hanging Ambient Filtration**

*An Air Filtration Solution for  
Manufacturers with Large Parts,  
Overhead Cranes, or as a  
Secondary Defense for any Facility*



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## AMBIENT AIR FILTRATION APPLICATIONS:

- Large Parts Manufacturing
- Use of Overhead Cranes
- Minimum Space for Source Capture
- Secondary Filtration System



# Clean Air DFX System

## Ambient Air Filtration System

### CUSTOM ENGINEERED SOLUTION FOR IMPROVED INDOOR AIR QUALITY FOR LARGE PARTS MANUFACTURING

When production welding, plasma/laser cutting, gouging, and grinding are in use, a layer of smoke and particulates can form if proper filtration is not put in place to capture the smoke and particles from the building. Clean Air America, Inc. designed the **Clean Air DFX** to effectively eliminate smoke and particulate from the air. This system is traditionally used in large parts manufacturing or where overhead cranes are in use, eliminating the ability for source capture, although this system can be used as either a primary or secondary level of defense, depending on the facility layout and size. An ambient system can also be used as a second layer of defense to capture any particles that may have eluded a source capture unit.

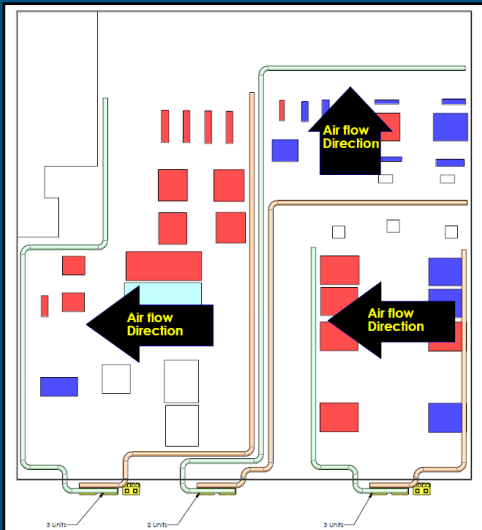
### ABOUT CLEAN AIR AMERICA, INC.

With over 20 years of air filtration experience, Clean Air America, Inc. is your go-to source for air filtration systems for industrial and educational facilities alike. Providing top of the line air filtration systems, Clean Air America, Inc. designs these systems with quality, efficiency, and durability in mind to provide units that not only hold up to a 24/7 manufacturing environment but out-perform similar systems currently on the market.

- *Factory Direct Pricing*
- *100% Turnkey Service: From Start To Finish*
- *Units Designed To: Save Floor Space, Save Energy, Protect Workers, Keep A Clean Facility*
- *One Stop Shop for All Aspects of the Project*



## CUSTOM DFX SYSTEM LAYOUT FOR EACH FACILITY



Each DFX System is designed specifically for the facility layout to optimize filtration throughout the plant. Our sales and engineering team work together with you to design a layout of the system that will work for you.

To correctly design your DFX System, an in-depth evaluation of your building layout and operation must be completed.

The evaluation includes:

- Application/manufacturing process
- Operator procedures
- Existing ventilation and air movements
- Overall volume and general construction of the building and obstructions.

Upon evaluating your facility, our team will provide you with an engineering design specification and system quotation. These will include system layout, system recommendation, and list of system components.

## Clean Air DFX™ Air Cleaner

The **Clean Air DFX Unit** is a compact, continuous-duty and self-contained ambient air cleaning system. Each unit consists of housing with fan, motor, integral, silencer and filters. The pollutant air enters the system at the filter side of the system and moves through various filters to achieve the desired cleaning. The air is then exhausted by the blower fan wheel through the acoustically lined blower's side outlet.

## Clean Air DFX Air Cleaner Flexibility

The DFX units can be hung in a circular pattern from the ceiling, can be set on legs, and can be connected to ducting for direct source capture. The DFX units can house a wide variety and combination of filters depending upon the application.



## Blower Package

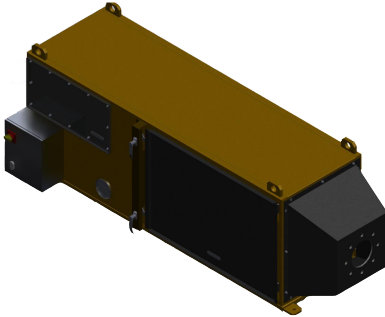
The backward incline blower wheels and TEFC energy efficient motors ensure high performance even when the filters are getting dirty. The TEFC energy efficient motor/blower package is direct drive and does not require any maintenance, unlike other belt driven motors. The components are housed in a very sturdy cabinet that will handle many years of use in an industrial environment. Filters ranging from 95% ASHRAE to 99.97% DOP HEPA efficiency are available as well as odor eliminating filters and more.

## CLEAN AIR LEAF INITIATIVE

*The Clean Air LEAF (Low Energy Air Filtration) Initiative is a dedication by Clean Air America, Inc. to design units and promote the use of "green" features for air filtration. By using recirculated air, sending dirty air to the outside is eliminated, helping to protect the environment from the same particles you are trying to protect your employees from. From a system standpoint, Clean Air systems are engineered with low energy and increased filter life in mind. With various features such as VFD (Variable Frequency Drive) and Direct Drive Motor, each unit is designed to decrease unit energy consumption, decrease facility AC and heating costs, and provide the longest filter life in the market by decreasing the frequency of filter disposal.*

## CLEAN AIR DFX MODELS

### Specs



#### 24x24

**Filter Cartridges:** (1) 60% ASHRAE Pre-Filter

(1) 95% ASHRAE V-Bank Main Filter

**Filter Media:** 175 square feet of media in each filter

**Motor/Blower:** 2 or 3 HP, 3,450 RPM Direct Drive,

Backward Incline Blower

**Electrical Requirements:** 3 Ph: 230 - 460 Volt, 3-6 Amps

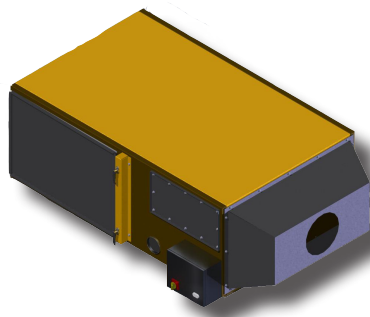
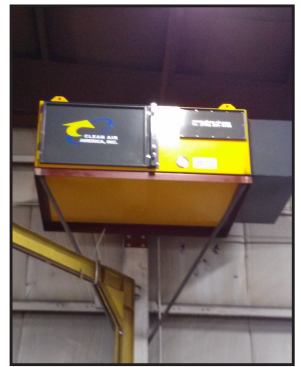
**Air Flow:** (2 HP) 1,500 CFM; (3 HP) 2,000 CFM

**Built-in Spark Arrestance:** (1) 24"x24"x2" Metal Mesh

**Silencing:** Internal Noise Abatement in Motor/Blower Compartment

**Weight:** 450-550 lbs.

**Construction:** 12 GA welded steel finished with powder-coat paint



#### 24x48

**Filter Cartridges:** (2) 60% ASHRAE Pre-Filter

(2) 95% ASHRAE V-Bank Main Filter

**Filter Media:** 175 square feet of media in each filter

**Motor/Blower:** 3, 5, 7.5 HP, 3,450 RPM Direct Drive,

Backward Incline Blower

**Electrical Requirements:** 3 Ph: 230 - 460 Volt, 3-6 Amps

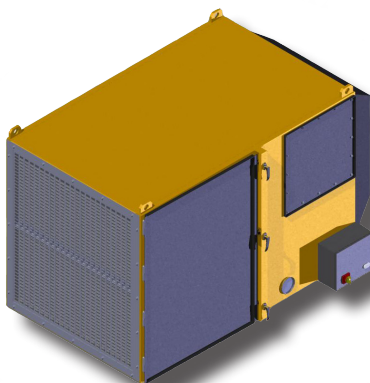
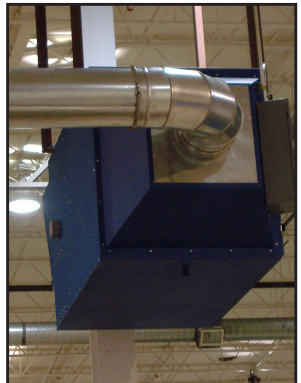
**Air Flow:** (3 HP) 2,000 CFM; (5 HP) 3,500 CFM; (7.5 HP) 5,000 CFM

**Built-in Spark Arrestance:** (2) 24"x24"x2" Metal Mesh

**Silencing:** Internal Noise Abatement in Motor/Blower Compartment

**Weight:** 650-800 lbs.

**Construction:** 12 GA welded steel finished with powder-coat paint



#### 48x48

**Filter Cartridges:** (4) 60% ASHRAE Pre-Filter

(4) 95% ASHRAE V-Bank Main Filter

**Filter Media:** 175 square feet of media in each filter

**Motor/Blower:** 5, 10, 15 HP, 3,450 RPM Direct Drive,

Backward Incline Blower

**Electrical Requirements:** 3 Ph: 230 - 460 Volt, 3-6 Amps

**Air Flow:** (5 HP) 5,000 CFM; (10 HP) 7,000 CFM; (15 HP) 8,000 CFM

**Built-in Spark Arrestance:** (4) 24"x24"x2" Metal Mesh

**Silencing:** Internal Noise Abatement in Motor/Blower Compartment

**Weight:** 1,000-1,300 lbs.

**Construction:** 12 GA welded steel finished with powder-coat paint

