



DFX AMBIENT AIR CLEANERS

When production applications such as 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 airborne pollutants within your facility. Clean Air Industries designed the **DFX Ambient Air Cleaner Series** to effectively eliminate smoke and particulate from the air you breathe.

This system is traditionally used in large parts manufacturing environments or where overhead cranes are in use, eliminating the ability for source capture. 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.

DFX Ambient Air Cleaners 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. DFX Ambient Air Cleaners can house a wide variety and combination of filters for general dust collection and other industrial applications.



Designed for Your Needs

Each DFX Ambient 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 Ambient System, an in-depth evaluation of your building layout and operation must be completed.

The evaluation includes:

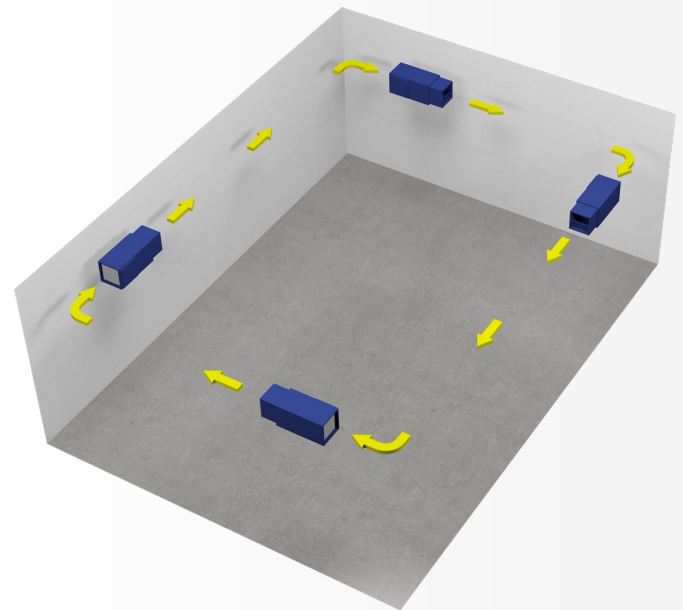
- Application/manufacturing process
- Operator procedures
- Existing ventilation and air movements
- Overall volume and general construction of the building and obstructions.

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.

How It Works

The Clean Air DFX Ambient Air Cleaner 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.

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.





Key Applications

- Manual Welding
- Robotic Welding
- Plasma Cutting
- Grinding
- Sanding

Health & Safety

Exposure to fumes, smoke, and other airborne contaminants generated during manufacturing processes can pose various health risks. The specific health effects depend on the composition of the airborne contaminants, the duration and intensity of exposure, and individual susceptibility.

Among the potential health risks:

- Respiratory Issues
- Lung Damage
- Metal Fume Fever
- Neurological Effects

Regulatory Compliance

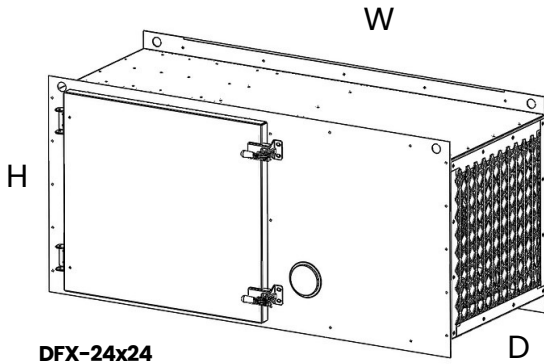
Health and safety issues are being taken very seriously by a growing number of companies as OSHA, International, and industry standards increase. Many large US manufacturers are planning ahead and adopting European exposure limits as a global standard for their entire company and are exceeding OSHA Standards.

To meet these standards companies must implement a highly efficient dust and fume filtration system to filter out the harmful particulate. The exposure limits these companies are targeting range from .02 – 1mg/m³ depending on company policy, well below the 5 mg/m³ standard set by OSHA.

Warranty Information

All Clean Air Industries units are backed by a standard 10-year manufacturer's warranty*. We guarantee that the major structural components of the goods will be free from defects in material and workmanship for ten (10) years from the date of shipment.

* This warranty does not cover consumable parts, fuses, filters, or other non-structural components. For warranty details, visit our website: <https://clean-air.com/warranty>



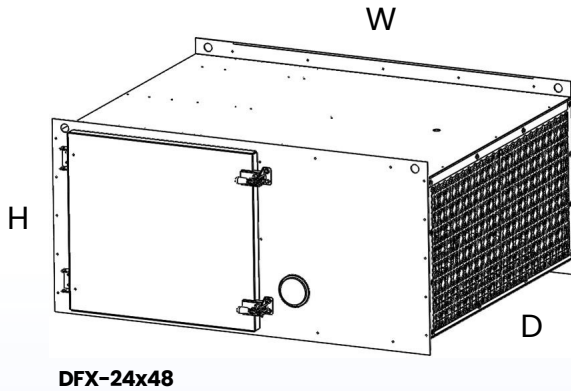
METAL MESH FILTER

Model DFX-24x24

- Part# F01770-S : 24" x 24" x 2" (1x)

Model DFX-24x48¹

- Part# F01770-S : 24" x 24" x 2" (2x)



PRE FILTER

Model DFX-24x24

- Part# FOPURII24246 : 24" x 24" x 4" (1x)

Model DFX-24x48¹

- Part# FOPURII24246 : 24" x 24" x 4" (2x)



CELLULOSE FILTER

Model DFX-24x24

- Part# F02586: 24" x 24" x 12" (1x)

Model DFX-24x48¹

- Part# F02586: 24" x 24" x 12" (2x)



USER & MAINTENANCE MANUAL

To learn how to properly operate and maintain this unit, scan the QR code to instantly access your user and maintenance manual.

Contact us for replacement filters and parts or service.



| MODEL | CFM | HP/RPM | VOLTAGE | AMPS (FLA) | dBA @ 5' | DIMENSIONS** | WEIGHT (lbs) |
|------------------------------|-------------|-------------------------|----------------------|------------|----------|--------------------------------|--------------|
| DFX-24x24-2HP | 1,500 | 2HP @ 3,450RPM | 230-460v / 3PH/ 60Hz | 3 | 75 | 59.75" W x 28.75" H x 25.36" D | 450 |
| DFX-24x24-3HP | 2,000 | 3HP @ 3,450RPM | 230-460v / 3PH/ 60Hz | 6 | 76 | 59.75" W x 28.75" H x 25.36" D | 550 |
| DFX-24x48¹ | Up to 5,000 | Up to 7.5HP @ 3,450 RPM | 230-460v / 3PH/ 60Hz | 3-6 | 79 | 59.75" W x 28.75" H x 46.86" D | Up to 800 |

¹ Model **DFX-24x48** is available as a custom-built product. Not a standard offering. Please contact us for details.

** Please note that the dimensions provided are based on our base models and may vary depending on selected features. To ensure accurate shipping quotes, kindly contact us for personalized information that considers your chosen product features and customizations.



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