



## Environmental Control Booths from Tri-Mer Corporation

The **Tri-Flow Environmental Control Booth** meets the 5 Requirements buyers say are most important for an environmental enclosure in an industrial setting.



The Tri-Flow Environmental Booth is Ideal for These In-Plant Dust Control Applications - and Many Others:

- Welding
- Powder Coating
- Sanding
- Grinding
- Chipping
- Plasma Torch Cutting
- Air Arcing
- Buffing
- Mixing
- Finishing
- Polishing



*Air Pollution Control Systems Since 1960*

**[www.tri-mer.com](http://www.tri-mer.com)**

## Exceptional Protection from Dust and Noise

The Tri-Flow Environmental Booth was designed for in-plant areas where dirty and/ or noisy tasks need to be confined to their own workspace in order to protect surrounding operations, products, and workers. Like the Tri-Flow Compact Filter System, the Tri-

Flow Environmental Control Booth provides HEPA level filtration performance. Perforated acoustical panels contain and absorb the noise generated by the operation inside the booth, and maintain a quiet environment in the surrounding plant.

## Efficient, Reliable Performance

Tri-Flow Environmental Booths provide reliable and consistent capture velocities at the booth opening and throughout the booth. There is no air turbulence, no "hot spots," and no uncomfortable drafts to interfere with operator productivity.

The capture velocity provided throughout the booth means that workers are not confined or tied to a fixed work space, hood, hose, etc. Because the collector pulls in dust through a grille that extends the full width of the booth, workers can freely perform tasks throughout

the workspace, sitting or standing. Typical inlet velocities are generally in the range of 125-150 FPM.

Tri-Flow Booths are rated at MERV 16 and operate at a significantly lower pressure drop than traditional cartridge filters. This results in significantly lower energy consumption as well as longer filter life.

Typically, Tri-Flow filters have a productive service life 3-5 times that of conventional filters.

## Simple Operation and Maintenance

Tri-Flow booths use low-speed, low-noise direct drive blowers that are an integral part of the booth and power module. A timer-controlled, automatic pulse jet cleaning system uses solenoid valves and blow-down pipes to assure that the booth maintains its capture velocity by measuring filter pressure drop and automatically cleaning the filters on demand. Filter access is easy, and change-out is simple and "tool-free."

One of the most significant advantages of the TF-ECB is that the collector not only confines and controls the operation inside of the booth, but while the booth is in operation, it continuously returns clean air back into the plant through its MERV 16 filter system, improving plant IAQ.

## Design Flexibility

Tri-Flow booths feature a smooth, ledge-free interior to minimize dust accumulation. Each booth is custom-configured to suit the application, and can be expanded as facility needs change. Overhead lighting is provided to suit the application as well. These booths are designed to fit anywhere on the plant floor and will not restrict worker activities, or visibility.

The Tri-Flow Booth is also the only environmental booth that is customized to the facility. A selection of 7 media options means there's an ideal solution for your application, whether it involves electrostatics, fine dusts or fumes, high temperatures, or hydrophobic / oleophobic particulate. All media is pleated and continuously bonded for maximum stability.

## Low Life Cycle Cost

The Tri-Flow Environmental Booth provides manufacturing, process and job shop facilities with an exceptionally efficient, new option for in-plant enclosures.

**It is the ideal choice for companies who want to combine high filter efficiency - 99.999% on 0.5 micron and larger particles by weight - with lowest life cycle cost.**

Tri-Flow Environmental Control Booths are manufactured exclusively by Tri-Mer Corporation, a world leader in air pollution control systems, and indoor air quality products.



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