

BENCHTRON SERIES

Downdraft/Backdraft Workstations



A Stand-Alone for Industrial Needs

"Push-Pull" Regain Air / Clean Air Curtain

The regain air plenum returns a portion of the clean, filtered air to **push** contaminants at 400 FPM away from the worker's breathing zone and toward the work surface as the particulate is simultaneously **pulled** into the filter section.

Ultra-efficiency Nanofiber Cartridge Filters

Rated at MERV 15 efficiency, the Benchtron's nanofiber cartridge filters operate at a 40-60% lower pressure drop than traditional cartridge medias, resulting in lower energy consumption and a longer filter life. In addition, the cartridges are vertically-oriented for even loading and thorough removal of the dust cake during the automatic cleaning cycle. The filter cleaning system utilizes a programmable logic controller (PLC) for reliability and flexibility.

Customization

The Benchtron Series includes single or double (back-to-back) workstations up to 12' wide, depending on the dimensions needed for the size of operation and available space. Options include special features such as a crane slot, pneumatic turntable, adjustable table height, auger to remove dust after pulse jet cleaning of filters, or two velocities -- one for welding and one for grinding.

"The Super Bench"

Powerful Capture Velocity Across the Worksurface. The Benchtron worksurface provides edge-to-edge consistent velocity up to 800 FPM.

Clear Containment Enclosures and Integral Lighting. Containment is provided by plastic panels or weighted vinyl curtains. Dust-tight fluorescent lighting enhances visibility.

High-Performance Nanofiber Filters with Automatic Cleaning. The ultra-efficiency cartridge filters are oriented vertically for optimal dust loading and reverse pulse jet cleaning.

Rock-Solid Construction. The Benchtron is built with heavy-sheet steel and rolled structural shapes in an all-welded cabinet.

The Ergonomic Advantage. Every Benchtron is constructed with "leg room," allowing operators to sit or stand. The Benchtron may also be customized for adjustable table height.



1-800-289-0189

FILTER 1

CUSTOM SPECIALISTS FOR INDUSTRIAL NEEDS

Dust Collector Workstation

BENCHTRON SERIES

Dust Collector Single and Dual Workstations



Guaranteed to meet or exceed OSHA requirements for the breathing zone.

Options / Customization

- TEFC Motors, Single and Three Phase
- Carbon After Filters
- Odor Absorption Modules
- Sound Attenuators
- Choice of Work Surface Grating
- Various Hole Size Grate
- ASHRAE or HEPA Safety Filters
- Safety Monitor Gauge and Alarm
- Spark Trap for Welding or Heavy Grinding
- Various Filter Media for Special Applications
- Slotted Regain Roof for Crane Loading
- Auxiliary Air and Power Outlets
- Compressed Air Regulators and Filters
- High Temperature Cut-off of Blower
- Fire Sprinkler Heads
- Powered Adjustable Table Height
- "Off Line" Cleaning
- Pneumatic Turntable for Lifting/Spinning Parts
- Motor Starters & Electrical Disconnects with Transformer for Solid State PLC and Lighting

Filter 1 has a policy of continuous design improvement and reserves the right to update designs and specifications without notice.



Typical Applications

- Grinding/Sanding Dust
- Welding/Soldering Fume
- Dry particulate
- Wood Dust
- Composite Dust
- Fiberglass Dust
- Marble Dust
- Plastic Dust

Selected User List

United Airlines

Boeing Corporation

Raytheon

General Electric

Bell Helicopter

U.S. Air Force

U.S. Coast Guard

Exide Technologies

Northrop Grumman

Westinghouse

Benchtron Single Station

MODEL	CFM	DIMENSIONS*	HP
BFS-3-2-3	1,200	1 Table 24"x36"	3
BFS-4-3-3	4,000	1 Table 30"x43"	3
BFS-5-4-3	4,000	1 Table 30"x60"	3
BFS-6-4-3	4,000	1 Table 30"x72"	3
BFS-7-5-3	4,000	1 Table 30"x84"	3
BFS-8-6-5	6,000	1 Table 30"x96"	5
BFS10-7-5	6,000	1 Table 30"x120"	5
BFS-12-8-5	6,000	1 Table 30"x144"	5

Benchtron Double Station

MODEL	CFM	DIMENSIONS*	HP
BFD-4-6-5	6,000	2 Tables 30"x43"	5
BFD-5-6-5	6,000	2 Tables 30"x60"	5
BFD-6-6-5	6,000	2 Tables 30"x72"	5
BFD-7-8-7.5	8,000	2 Tables 30"x84"	7.5
BFD-8-8-7.5	8,000	2 Tables 30"x96"	7.5
BFD-8-10-7.5	8,000	2 Tables 30"x120"	7.5
BFD-8-12-7.5	8,000	2 Tables 30"x144"	7.5

*Larger / Custom Sizes Available: Consult Factory

FILTER 1

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