

# HYDROTRON HPB MARK II SERIES

## Wet Dust Collector/Control Booth



### Controlling Volatile Dust

#### Safety

Safe collection of aluminum, titanium, and other potentially hazardous dust, as well as heavy sparking applications, meeting or exceeding OSHA and NFPA regulations for dust removal inside the building.

#### High Capture Velocity

With a minimum of 300 FPM in the working zone, the optional Regain Air System increases the velocity up to 800 FPM.

#### Compact Booth Design

- Elongated collector shape with a depth of only 32 inches
- Front access for easy clean out.
- All service & controls on front, allowing booth to be placed against a wall to conserve floor space

#### Custom Sizing to Fit the Operation

Whether single- or multi-operation, the Hydrotron HPB is built to the width, depth, and height dimensions needed for the task as well as for the available plant space.

# FILTER 1

### Current Technology

**Water Filter:** The Hydrotron Wet Dust Collector Systems purify air by a combination of centrifugal force and the violent mixing of water and contaminated air. As the air stream passes the fixed baffles, particulate is separated by a heavy, turbulent curtain of water created by high velocity air. The centrifugal force caused by the rapid changes in airflow direction forces the dust particles to penetrate the water droplets and become entrapped. Contaminated water is then removed from the airstream by special mist filters. Dust, as sludge, settles to the bottom and the water is reused.

**Automatic Fill System:** Water make up is controlled by a pressure sensor system that is unaffected by debris in the water. The system also includes an electrical solenoid valve, isolation valve, and a manual fill/high-water sensor for reliable water control.



1-800-289-0189

Wet Dust Control Booths

CUSTOM SPECIALISTS FOR INDUSTRIAL NEEDS

# HYDROTRON HPB MARK II SERIES

## Wet Collector Environmental Control Booth



**Containing and Filtering Aluminum, Titanium, and Other Potentially Explosive Contaminants**

### Features

- Compact Collector Module -- Only 32" Deep
- Clean-out & controls on the front, allowing booth to be placed against a wall to conserve floor space
- Minimum 300 FPM Capture Velocity in the Working Zone
- TEFC Motors, Single and Three Phase
- Direct Drive/Non-overloading Fan w/ Outlet Damper
- Interior Baffle Section
- Mist Eliminator Filters
- Electronic Water Level Control With Pressure Sensor System
- Magnehelic Gauge
- 2" Drain
- Galvanized Steel Construction With Coal Tar Epoxy Coatings to Interior Wet Surfaces
- Industrial Blue Enamel Finish on Exterior
- Fluorescent Lighting With Dust-Tight Lens

### Typical Applications

- Aircraft Manufacture / Maintenance
- Manufacture of Electrical/Electronic Enclosures
- Milling / Refining
- Chemical, Rubber, or Plastics Production
- Ceramics
- Foundries

### Selected User List

General Electric	U.S. Air Force
WECO	Dupont Corporation
Clark Products	Lockheed Martin
American Airlines	GKN Aerospace
U.S. Army	Bendix Corporation

### Options

- "Push/Pull" Regain Air System with Adjustable Louvers to Increase Capture Velocity 400 to 800 FPM in the Working Zone
- Stainless Steel Construction
- Overflow/Low Water Cut-off Alarms
- Explosion Proof Motors
- Width, Depth, and Height of Enclosure
- Slotted Roofs for Crane Loading of Parts
- Enclosure Construction of 18 ga. Galvanized Carbon Steel

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

### Hydrotron HPB Mark II Series

MODEL	CFM	Blower		Dimensions* H x W x D
		HP		
MII HPB8-1-1x10	6,000	1x10		7.5' x 8' x 128"
MII HPB12-1-1x10	9,500	1x15		7.5' x 12' x 128"
MII HPB16-2-2x10	12,000	2x10		7.5' x 16' x 128"
MII HPB20-2-1x10+1x15	15,500	1x10+1x15		7.5' x 20' x 128"
MII HPB24-2-2x15	19,000	2x15		7.5' x 24' x 128"
MII HPB28-3-2x10+1x15	21,500	2x10+1x15		7.5' x 28' x 128"
MII HPB32-3-1x10+2x15	26,000	1x10+2x15		7.5' x 32' x 128"
MII HPB36-3-3x15	28,500	3x15		7.5' x 36' x 128"

\*Larger/Custom Sizing Available: Consult Factory

# FILTER 1

2525 National Dr.  
Garland, TX 75041  
972-278-2664

WWW.FILTER-1.COM