

HYDROTRON HPB 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.

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.

Noise Control & Visibility

Every Hydrotron HPB is equipped with sound-attenuating insulation and dust-tight fluorescent lights.

*NFPA guidelines for processing and finishing of aluminum, for example, prohibit the use of dry type dust collectors within the building. In addition, NFPA 65 specifies that collectors should be cleaned at least once a day. Explosion vents may be required and there are special requirements for ductwork. If the air is returned into the building it should have a HEPA type safety filter with an alarm function. Fabric and paper media filter units and electrostatic precipitators may not be used. The preferred collector is a liquid, wet type.

FILTER 1

CUSTOM SPECIALISTS FOR INDUSTRIAL NEEDS

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

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