Specifically Designed for 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.*

Energy Savings
Recirculation of clean, tempered air.

Configured to Meet the Need
The Hydrotron Series includes collectors ranging from 500 CFM to 15,000 CFM, meeting a broad spectrum of industrial needs, whether single process or larger, multi-point operations. Optional drag-type sludge conveyors are available for heavy dust applications.

*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.

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 is operated by a solid-state programmable logic controller and includes an electrical solenoid valve, isolation valve, and a manual fill/high-water sensor for reliable water control.

Stainless Steel Unit
With Sludge Conveyor

1-800-289-0189
Hydrotron HWF Series
Ducted Wet-Type Dust Collectors

Filtering Aluminum, Titanium, and Other Potentially Explosive Contaminants

Typical Applications
- Aircraft manufacture/maintenance
- Manufacture of electrical/electronic enclosures
- Milling/refining
- Chemical, rubber, or plastics
- Ceramics
- Foundries

Selected User List
- American Airlines
- Boeing Corporation
- Northrop Grumman
- General Electric
- Raytheon
- Pratt Whitney
- Team Rahal Racing
- U.S. Air Force
- Dupont Corporation
- Lockheed Martin
- GKN Aerospace
- Bendix Corporation
- Lithonia Lighting
- Delta Airlines

Options / Customization
- Stainless Steel Construction
- Overflow/Low Water Alarms
- Overflow/Low Water Cut-off and Alarms Operated by PLC
- Explosion Proof Motors
- Drag-Type Sludge Conveyors
- High-pressure Blowers
- HEPA Safety Filters
- Auxiliary Switches
- Custom Paint Color

<table>
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<th>MODEL</th>
<th>CFM</th>
<th>HxWxL*</th>
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<th>GAL</th>
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*Larger / Custom Sizing Available: Consult Factory

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

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