

## HYDROTRON HWF SERIES

### Water Filter Dust Collectors

04-07 HYDROTRON HWF SERIES



#### 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 9000 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.

# 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.



Stainless Steel Unit  
With Sludge Conveyor

Wet Dust Collectors

04-07

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### Ducted Wet-Type Dust Collectors



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

04-07

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#### Typical Applications

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

#### Selected User List

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

#### Standard Features

- Low Maintenance Operation
- Interior Baffle Section
- TEFC Motors, Single and Three Phase
- Direct Drive / Non-overloading Fan
- Mist Eliminator Filters
- Electronic Water Level Control w/ Pressure Sensor System
- Sump with Sloped Sides for Easy Clean-out
- Removable Clear Plastic Panel Door for Inspection and Clean-out
- 2" Drain
- Magnahelic Gauge
- Construction: Galvanized Steel With Coal Tar Epoxy Coatings to Interior Wet Surfaces
- Industrial Blue Enamel Finish on Exterior

#### Options / Customization

- Stainless Steel Construction
- Overflow/Low Water Cut-off Alarms
- Explosion Proof Motors
- Drag-Type Sludge Conveyors
- High-pressure Blowers
- Custom Paint Color
- HEPA Safety Filters

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

MODEL	CFM	HxWxL*	HP	GAL
LEV-WFDC1-10-3	1000	95" x34" x40"	3	62
LEV-WFDC2-20-3	2000	95" x34" x40"	3	62
LEV-WFDC2-20-5	2000	95" x34" x40"	5	62
LEV-WFDC3-30-5	3000	95" x36" x46"	5	88
LEV-WFDC4-40-7.5	4000	95" x40" x48"	7.5	100
LEV-WFDC5-50-10	5000	95" x46" x58"	10	125
LEV-WFDC6-70-15	7000	95" x48" x72"	15	185
LEV-WFDC9-150-40	15000	132" x60" x106"	40	350

\*Larger / Custom Sizing Available: Consult Factory

# FILTER 1