

HYDROTRON HWF SERIES

Water Filter Dust Collectors



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

FILTER 1

CUSTOM SPECIALISTS FOR INDUSTRIAL NEEDS

Wet Dust Collectors

HYDROTRON HWF SERIES

Ducted Wet-Type Dust Collectors



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

MODEL	CFM	HxWxL*	HP	GAL
HWF1-10-3	1,000	75"x30"x34"	3	62
HWF2-20-3	2,000	75"x30"x34"	3	62
HWF3-30-5	3,000	82"x36"x46"	5	88
HWF4-40-7.5	4,000	92.5"x40"x50"	7.5	100
HWF-5-50-10	5,000	92.5"x46"x58"	10	125
HWF-6-70-15	7,000	99.5"x48"x72"	15	185
HWF-6-80-20	8,000	99.5"x48"x72"	20	185
HWF-7-100-30	10,000	116"x60"x82"	30	270
HWF-8-125-30	12,500	116"x60"x94"	30	310
HWF-9-150-30	15,000	132"x60"x106"	30	350

*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.

Filtering Aluminum, Titanium, and Other Potentially Explosive Contaminants

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 with PLC 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 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

FILTER 1

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