

# HYDROTRON DHYD SERIES

## Wet Collector Downdraft Workstations



### Maximizing the Work Environment

#### Safety

Drawing particulate directly into the water, the Hydrotron DHYD Wet Collector Station provides 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 saves on heating and cooling costs.

#### Customization

The Hydrotron DHYD is built to dimensions needed for size of operation and available plant space. Engineered integration of special features such as a crane slot or pneumatic turntable.

#### Added Environmental Control

The optional clear plastic workstation enclosure provides for containment, integral fluorescent lighting, and regain air. The optional Filter 1 "Push-Pull" Regain Air System takes a portion of the filtered air and discharges it down toward the table top to "push" as the blower simultaneously "pulls" the dirty air into the table grating.

# FILTER 1

### Current Technology

**Water Filter System:** 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 Collector Workstations

# HYDROTRON DHYD SERIES

## Wet Collector Single and Dual Workstations

### Hydrotron DHYD Single Station

MODEL	CFM	DIMENSIONS*	HP
DHYD1-30-5-4	3,000	1 Table 30"x48"	5
DHYD1-30-5-3	3,000	1 Table 30"x36"	5
DHYD1-30-5-4-3	3,000	1 Table 36"x48"	5
DHYD1-30-5-5	3,000	1 Table 30"x60"	5
DHYD1-30-5-6	3,000	1 Table 30"x72"	5
DHYD1-50-10-4	5,000	1 Table 30"x48"	10
DHYD1-50-10-4-3	5,000	1 Table 36"x48"	10
DHYD1-50-10-5-3	5,000	1 Table 36"x60"	10
DHYD1-50-10-6-3	5,000	1 Table 36"x72"	10

### Hydrotron DHYD Double Station

MODEL	CFM	DIMENSIONS*	HP
DHYD2-30-5-4	3,000	2 Tables 30"x48"	5
DHYD2-50-10-5-3	5,000	2 Tables 36"x60"	10
DHYD2-50-10-5	5,000	2 Tables 30"x60"	10
DHYD2-50-10-4	5,000	2 Tables 30"x48"	10
DHYD2-50-10-4-3	5,000	2 Tables 36"x48"	10
DHYD2-50-10-5-3	5,000	2 Tables 36"x60"	10
DHYD2-50-10-6	5,000	2 Tables 30"x72"	10

\*Larger / Custom Sizes Available: Consult Factory.

### Features

- TEFC Motors, Single and Three Phase
- Direct Drive/Non-overloading Fan
- Interior Baffle Section
- Mist Eliminator Filters
- Electronic Water Level Control by Fan Pressure
- Construction: Galvanized Steel With Coal Tar Epoxy Coatings to Interior Wet Surfaces
- Magnahelic Gauge
- Industrial Blue Enamel

### Options

- Regain Air System
- Stainless Steel Construction
- Overflow/Low Water Cut-off Switches
- Explosion Proof Motors
- HEPA Safety Filters With Alarms

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

### Typical Applications

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



Custom Unit for Lighting Manufacturer  
With Regain Air and Rear Door/Table Extensions

### 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     |

# FILTER 1

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