

HYDROTRON DHYD MARK II 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.

Front Access Design

The Hydrotron DHYD Mark II features all service and controls on the front, providing for easy clean-out, and allowing the table to be placed against the wall to conserve floor space.

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, pneumatic turntable, convenient outlet, auxiliary contacts, or special lights.

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

Added Environmental Control: Optional clear plastic workstation enclosure provides 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.

Wet Collector Workstations

FILTER 1

1-800-289-0189

CUSTOM SPECIALISTS FOR INDUSTRIAL NEEDS

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Wet Collector Workstations



DHYD Selected User List

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

Hydrotron Mark II DHYD Workstation

MODEL	CFM	DIMENSIONS*	HP
MII DHYD-35-5-3	3,500	1 Table 30"x48"	5
MII DHYD-35-5-4-3	3,500	1 Table 36"x48"	5
MII DHYD-40-7.5-5	4,500	1 Table 30"x60"	7.5
MII DHYD-40-7.5-6	4,500	1 Table 30"x72"	7.5
MII DHYD-40-7.5-6-3	4,500	1 Table 36"x72"	7.5
MII DHYD-60-10-6-4	6,000	1 Table 48"x72"	10
MII DHYD-60-10-7	6,000	1 Table 30"x84"	10
MII DHYD-60-10-8	6,000	1 Table 30"x96"	10
MII DHYD-60-10-8-3	6,000	1 Table 36"x96"	10

*Larger / Custom Sizes Available: Consult Factory.

Typical Applications

- Grinding, sanding, and polishing aluminum, titanium, and steel
- Aircraft manufacture/maintenance
- Manufacture of electrical/electronic enclosures
- Milling/refining
- Chemical, rubber, or plastics products
- Ceramics
- Foundries

Features

- Front Access for Clean-Out
- Unit May Be Placed Against Wall (Conserving Floor Space)
- Direct Drive/Non-overloading Fan
- Interior Baffle Section
- Mist Eliminator Filters
- Solid State PLC Electronic Water Level Control by Fan Pressure
- Construction: Galvanized Steel With Coal Tar Epoxy Coatings to Interior Wet Surfaces
- Magnahelic Gauge

Options

- Regain Air System
- Stainless Steel Construction
- Overflow/Low Water Alarm
- Overflow/Low Water Cut-off
- Explosion Proof Motors
- HEPA Safety Filters With Alarms
- Automatic Vent Fan
- Additional Contacts

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

FILTER 1

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