



Wet Dust Collectors

DualDraw Self Contained Wet Filtration Collectors

DualDraw wet collectors are designed to capture combustible dust generated from activities such as grinding, cutting, mixing, and many others. Aluminum, titanium, and magnesium are some of the more common and dangerous combustible dusts this solution will address. Additional combustible materials these collectors will capture include wood, coal/carbon, plastic, grain, sugar, and many others.

Collectors can be configured either as downdraft tables or as stand-alone scrubbers with ducting to separate capture zones or tables. Maintenance is straightforward to perform and sludge ejection sub-systems are available as an option for high-volume customers. Units are built to comply with OSHA and NFPA combustible dust standards and come equipped with optional auto water refill and low water shutdown functionality. Additional options include stainless or galvanized construction, light kit, canopy hood, rubber or fiberglass non-scratch soft top, and pin hinged side wings. Size of equipment is determined based on customer requirements.

All DualDraw solutions, including the Wet Collector series, achieve the objectives of protecting the health of operators and eliminating cross contamination of adjacent plant equipment. Wet Collectors have the added benefit of protecting the safety of the operator and facility from a combustible dust hazard. The DualDraw approach to downdraft quality and performance is unique in the marketplace – we guarantee your satisfaction.

**Auto Water Refill
Functionality**



DBS8-DD Wet Scrubber



**DB3-DD Wet
Downdraft Table**





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SPECIFICATIONS

Design Name	DualDraw Flat Top Downdraft Table
STANDARD MODELS:	Downdraft configuration: DB3-DD (32"D X 32"W work surface), DB4-DD (36"D X 48"W work surface), DB5-DD (36"D X 60"W work surface), DB6-DD (36"D X 72"W work surface), DB8-DD (36"D X 96"W work surface). Scrubber Configuration: DBS3-DD (32"D X 32"W work surface), DBS4-DD (36"D X 48"W work surface), DBS5-DD (36"D X 60"W work surface), DBS6-DD (36"D X 72"W work surface), DBS8-DD (36"D X 96"W work surface). All units above can also be configured as double units.
General Specifications	
Characteristics	Scrubbing of hazardous dust through a stationary impeller system that equalizes the ratio of water to air for maximum capture efficiency. Self contained solution; no outdoor exhausting necessary in most situations.
Filtration Systems:	The wet filtration system is designed to capture hazardous and combustible dust without compromising safety. Typical efficiencies are approximately 95% to 1.0 μ. Water resistant mist eliminators are located after wet filtration and prior to exhaust to reduce overall system humidity.
Available Sizes:	Standard lengths are 36", 48", 60", 72", and 96". Standard depth of the work surface is 36". Flexible design construction allows customers to cost-effectively specify non-standard sizes.
Work Surface Area	The standard surface area of a DualDraw wet downdraft table ranges from 7.0 ft ² to 24 ft ² . The surface of the equipment can either come in expandable steel or as a non-scratch soft top made of rubber or fiberglass.
Table Capacity	500 lbs. distributed weight. Reinforced heavier gauge grates and table sides available for heavy-duty use.
Cabinet	12-14 gauge galvanized steel, 304 stainless optional.
Finish	Stainless Steel or Electro Galvanized. Powder coat paint finish available.
Water Level Control	The water-level control is designed to automatically maintain a proper water-level in the equipment as per regulatory standards. Componentry measures internal static pressure and automatically refills the unit to its optimal level when the internal pressure and related water level decreases below the normal range. As a fail safe, if the water-level falls below a set point (Low), or rises above (Hi), the blower unit will shut-off, a warning light on the operator panel will illuminate.
Mist Eliminators	Water resistant mist eliminators are located after wet filtration and prior to exhaust to reduce overall system humidity. A set of new mist eliminators filters are included with the unit and each unit comes enclosed in a metal frame that provides rigid support for the filters. Discount replacement filter kits are available for reordering purposes.
Clean Out	Wet dust, or sludge, is collected in the bottom of the unit and will need to be maintained and removed based on usage. Sludge removal is performed through the front of the unit using a standard squeegee rake.
Electrical	Units come pre-wired with magnetic motor starters.
Motor Blower System	Motor and Blower to be of Plug Fan design, direct drive, TEFC motor, backward inclined wheel design of steel or aluminum construction. Non sparking. Three phase 208/230/460V, 3 HP to 30 HP motor depending based on table size and application.
Capture Velocity Range	Approximately 350 to 400 FPM depending on application and customer requirement.
Air Volume	CFM ranges from 3,000 to 16,000 on standard units.
Sound	Ranges from 78 to 80 dB at operator work zone. Optional silencer package.
Magnehelic Gage	Pressure gauge to monitor impeller pressure. Units with auto water level control functionality come equipped with a photohelic gauge to relay pressure signal to water fill.
Unit Weight	Varies based on size. Ranges from 1,500 to 4,500 lbs. uncrated.
Assembly	Minor. Ships complete from FOB Glendale Heights, IL. Start-Up services available.
Regulatory	Helps meet OSHA and NFPA requirements.

RENDERING - Wet Dust Collectors

