

Wet Dust Collectors

Self-Contained Wet Downdraft Tables, Scrubbers, and Walk-In Clean Air Stations

The DualDraw Wet Collector Series is designed to capture combustible dust generated from processes such as grinding, cutting, mixing, polishing, and many others. Aluminum, titanium, and magnesium are some of the more common and dangerous combustible metal dusts these solutions address. They can also be used to collect other combustible materials such as plastic, food dust, carbon, phenolic resin, grain, sugar, and many others. Additionally, customers use our wet collectors to mitigate fire risk from processes that may produce hot sparks or slag.

Collectors can be configured as downdraft tables, walk-in booths, or stand-alone scrubbers ducted to separate capture zones. All wet collectors are built to comply with OSHA and NFPA combustible dust standards and come equipped with automatic water refill and high/low water shutdown functionality. Filter efficiency has been independently tested to be 97% efficient on particles 5.0 microns or greater and 99% efficient on particles 10.0+ microns. Test results are available for review, please inquire.

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



TB3096-WC
Wet Downdraft Booth



BG1826-WC
Wet Downdraft Table with Light



SAF1300-WS
Wet Scrubber



WI12X12X8-WC
Wet Walk-In

**The only wet dust collectors independently certified
for filtration efficiency on the market. Request the report today!**

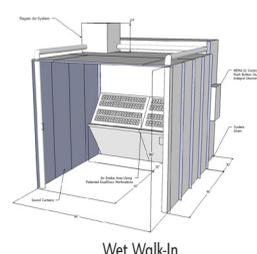
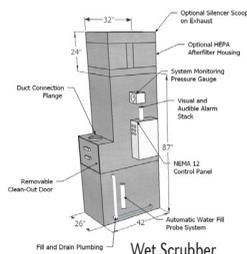
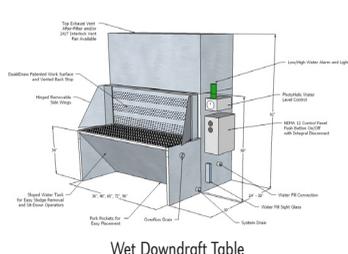


WWW.DUALDRAW.COM
800-977-2125

SPECIFICATIONS

Design Name	DualDraw Wet Dust Collectors
STANDARD MODELS:	Downdraft Tables (BG-WC), Downdraft Booths (TB-WC), Stand-Alone Filtration Scrubber Systems (SAF-WS), and Walk-In Clean Air Stations (WI-WC).
GENERAL SPECIFICATIONS:	
Characteristics	Wet scrubbing of hazardous dust or fume through a stationary impeller system. Patented DualDraw design; even distribution of airflow through a perforated surface. Built to comply with NFPA and OSHA combustible dust standards. Self-contained solution; no outdoor exhausting necessary in most situations.
Filtration Systems	The filtering of dust is accomplished through pulling dust-laden air through a water bath that is turbulently moving through a stationary set of impellers located internally. Scrubbed air is then moved through a final set of metal mesh dehumidifiers prior to exhausting to the ambient air or through an exhaust duct.
Efficiency	Independently tested to be 97% efficient on particles 5.0 microns or greater and 99% efficient on particles 10.0+ microns. Test results are available for review, please inquire.
Optional After Filter	HEPA or ULPA after filter modules available as option. Can achieve efficiencies up to 99.99% efficient to 0.3 microns.
Available Sizes	Wide variety of sizing depending on collector style, airflow, and footprint requirements. Some more common work surface sizes on the downdraft style are approximately 30" deep by 26", 36", 48", 60", 72", or 96" wide. Walk-In Clean Air Stations range in size from 4'W to 50'W and typically are 8' D and 8' H. Scrubbers are sized based on airflow requirements, please inquire. Flexible design construction allows customers to cost-effectively specify non-standard sizes.
Downdraft Work Surface Area	The standard work surface area of a DualDraw wet downdraft table ranges from 3.25 ft ² to 20 ft ² . The surface of the downdraft table is a series of 5" W perforated C-channel grates. Each grate has evenly spaced perforations that create and equal distribution of downdraft air flow across the surface.
Table Capacity	500 lbs. - 1,000 lbs. distributed weight standard. Reinforced heavier gauge grates and table sides available for heavy-duty use.
Cabinet	12-14 gauge galvanized steel, 304 stainless optional.
Finish	Collector module is manufactured with 100% 304 Stainless Steel
Water Level Control	The automatic water-level control is designed to maintain the proper water-level in the equipment as per regulatory standards. Depending on collector style, water level is maintained either through pressure sensors or a high/low water level probe. Unit is automatically refilled when evaporation levels trigger the respective sensor to refill the unit to its optimal level. As a fail safe, if the water-level falls below a set point (Low), or rises above (Hi), the unit will cease operation and alarm both audibly and visually to alert operators.
Dehumidifiers	Metal mesh dehumidifiers are located between the water basin and exhaust to reduce overall system humidity. These washable dehumidifiers are included with the unit and should be maintained on a regular basis.
Clean Out	Wet sludge accumulates in the sump of the unit and needs to be maintained frequently per regulatory standards. Sludge removal is a simple process and is performed by either manually through use of a rake or automatically using a properly rated vacuum system.
Electrical	Units come pre-wired using dust proof and water tight conduit, complete with a NEMA 12 control panel consisting of start/stop push buttons, a fill indicator light, alarm silence, and shut down reset.
Lighting	Vapor and dust proof lighting is standard on downdraft booths and walk-in clean air stations. It is also available as option on downdraft tables.
Motor Blower System	Motors are direct drive, TEFC. Horsepower sized based on particular collector requirement. All collectors are specified three phase 208/230/460V. Fans are rated AMCA Spark Class B, non-sparking. Hazardous duty motors available as option.
Auxiliary Motor Blower	Optional secondary blower interlocked with main blower for 24/7 offline venting of collector. Depending on application and collector style, may be required.
Airflow Velocity Range	Capture velocities on downdraft work surfaces range from 350 to 500 FPM. Face velocities on walk-in clean air stations range from 100 FPM to 200 FPM. Duct velocities on scrubbers range from 3500 to 5500 FPM. All velocities calibrated to ACGIH industrial hygiene standards for dust capture.
Air Volume	CFM range of available collectors ranges widely from 400 to 30,000 on standard units. Please inquire for custom sizing.
Sound	Ranges from approximately 75 to 85 dB at operator work zone depending on collector style. Optional silencer package available to decrease dB.
Pressure Gauges	Depending on style of collector, gauges may be used to trigger automatic water fill or monitor the pressure of intake ducting. Gauges also used to measure capacity of after filter modules.
Unit Weight	Varies by collector style and size. Ranges from 750 to 5,500 lbs. uncrated.
Assembly, Start-Up, and Training	Most units ship complete, larger units require minor assembly. Start-Up and Operator Training services are required. Remote or on-site available.
Regulatory	Designed using NFPA 484 principles. Helps meet OSHA and NFPA requirements.

RENDERING - Wet Dust Collectors



WWW.DUALDRAW.COM
800-977-2125