



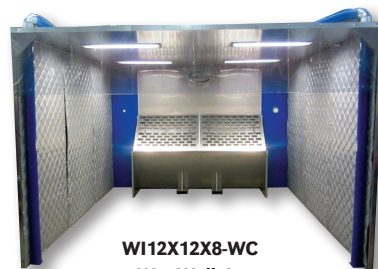
## Walk-In Clean Air Stations

Air Filtration Rooms Using Patented DualDraw® Airflow Technology

DualDraw Walk-In Clean Air Stations are designed to address some of the most challenging indoor air quality problems. Operators that work on large or awkward parts oftentimes cannot easily place them under a hood, fume arm or on top of a downdraft table. Therefore, breathing zones are left unprotected, operator health and safety is compromised, and cross contamination of plant equipment and processes by airborne dust is left unchecked. Walk-In Clean Air Stations address these challenges – they are self-contained filtration rooms that enclose a wide variety of applications generating harmful dust, smoke, or fumes.

The building block of the Walk-In Clean Air Station is the 4' W x 8' H Power Wall. Each modular Power Wall uses the patented DualDraw even-airflow to generate powerful suction and capture velocity. Walk-Ins are sized based on the customer application – Power Walls are blocked together with modular siding and roofing to form the specified Walk-In unit directly based on the customer requirement. A popular booth size with our customers is 12'W x 8'D x 8'H. Units are equipped with an optional unique Regain Air System that employs a proprietary slotted adjustable tube along the front sides. Filter systems on Walk-In units are designed to handle the particular hazard and loading requirement specific to the customer.

The DualDraw approach to solving dust and fume challenges stands alone in the marketplace – each product has our signature satisfaction guarantee and multi-year warranty on parts and labor.



W12X12X8-WC  
Wet Walk-In



Rear View of Motor/  
Blower System



8' Walk-In  
with Chain Slot



14' Walk-In  
with Double Chain Slot



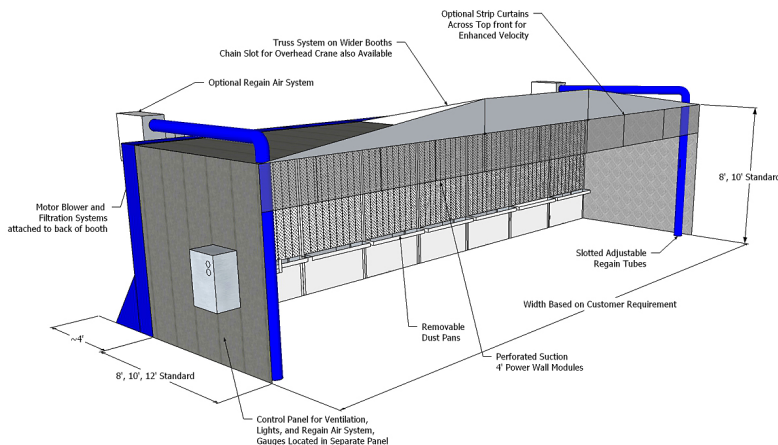
27' Walk-In



# SPECIFICATIONS

<b>Design Name:</b>	DualDraw Walk-In Clean Air Station
<b>Standard Models:</b>	Each Walk-In is specifically sized to application. A popular dry filtration model is our W18/8/8, which has a work space of 8'W x 8'L x 8'H. Stations are also available with a wet collection filter system for the capture of flammable materials or combustible dusts such as aluminum, titanium, magnesium, and others with a concerning Kst value.
<b>General Specifications:</b>	
<b>Characteristics</b>	Patented DualDraw design: even distribution of airflow across a perforated rear Power Wall. Modular fastening system provides design flexibility to meet customer requirements in a cost-effective manner. Self-contained solution; no outdoor exhausting necessary. Most units do not require water or compressed air and come with easy to maintain, front accessible clean-out trays.
<b>Filtration Systems</b>	Filtration systems attach to the back of the Power Wall(s) on the Walk-In Units and extend the depth of the unit anywhere from 48" to 58". Actual filters in the Walk-In units are configured to address the specific customer application in an efficient, safe, and cost effective manner. Choose between dust collection, combustible dust collection, smoke or fume removal, self-cleaning cartridge collection, HEPA filtration, and wet collection. All filter systems come with easy to remove access doors for filter maintenance.
<b>Available Sizes</b>	Some standard widths popular with customers are 8', 10', 12', 14', 16', and 20'. Standard depth of the Station is 8' and standard height is 8'. Station footprint extends an additional 48" to 58" to account for the motor/blower and filter housing. Flexible design construction allows customers to cost-effectively specify non-standard sizes.
<b>Work Area</b>	Popular work area dimensions inside the booth range from 64ft <sup>2</sup> to 160ft <sup>2</sup> based on size of Station.
<b>Power Wall Construction</b>	The Power Wall(s) consists of a series of 5" W perforated C-channel grates. Each grate has evenly spaced 1/2" x 3/16" perforations that create an equal distribution of back draft across a 60" height of the wall.
<b>Enclosure</b>	Size based on customer requirement. 12-16 gauge modular body construction. 0.8 Aluminum side and roof panels.
<b>Finish</b>	Blue polyurethane/epoxy paint for frame; aluminum non-sparking, non-glare for body, interior walls, and roof.
<b>Filters</b>	A set of new filters are included with the unit. Discount replacement filter kits are available through DualDraw, please inquire. The following filter types come with the unit depending upon operator application: <ul style="list-style-type: none"> <li>• 24" x 24" x 4" pleated prefilter. 40% efficient to 0.7 μ MERV 7.</li> <li>• 24" x 24" x 4" pleated final filter. 95% efficient to 0.7 μ MERV 14.</li> <li>• 24" x 24" x 2" activated carbon filter for fume removal. 6 lbs.</li> <li>• 24" x 24" x 11.5" HEPA filter. 99.97% efficient to 0.3 μ MERV 17.</li> <li>• 24" x 24" x 12" activated carbon filter for fume removal, refillable. Heavy-duty. 60 lbs.</li> <li>• 12.75" Ø x 26"/32"/36" cartridge filter. MERV 10 or MERV 15 efficiency.</li> </ul>
<b>Dust Pans</b>	Removable dust pans/clean out trays located inside booth on Power Wall(s) for easy access and maintenance.
<b>Electrical</b>	Units come pre-wired with dust tight conduit. Smaller booths come standard with thermally protected manual motor starters. Larger booths will have separate NEMA control panel with push button stop/start and integral disconnect. Regain Air System and lighting switched separately for independent control.
<b>Lighting</b>	Standard 48" 2 bulb fluorescent ceiling fixtures and bulbs. Optional hazardous duty lighting available.
<b>Motor</b>	Three phase 208/230/460V, TEFC, 50/60HZ Motors. Equipment is modular - each 4' Power Wall requires (2) 3 HP motors for standard barrier style filter configuration, (1) 7.5 HP motor for cartridge style filtration. Wet Walk-In Booths require (1) motor per 8' or less, HP varies.
<b>Booth Face Velocity</b>	Based on application and industrial hygiene standards. Most units range from 100 FPM to 250 FPM at the front face.
<b>Air Volume</b>	Power walls have anywhere from 2,000 to 6,000 per module. Total CFM is a function of style and quantity of the 4' W Power Wall. Popular 8' to 12' W Walk-Ins range from 8,000 CFM to 16,000 CFM. Call DualDraw for CFM estimate on your application.
<b>Regain Air System</b>	Optional Regain Air System pushes an additional 2,000 to 4,000 CFM of ambient fresh filtered air through front of booth. Uses proprietary slotted adjustable air tubes, vertically aligned along the front sides of unit. Adds anywhere from 20 to 60 additional FPM through booth interior.
<b>Sound</b>	Will depend on final fan package but typically ranges from 74 - 78 dB at operator work zone. Wet Walk-In Units range from 84 dB to 94 dB. Optional silencer package available.
<b>Magnehelic Gauges</b>	Differential pressure gauges provide indication of when filters should be checked. Optional audible and visual pressure sensor alarm available as option.
<b>Unit Weight</b>	Each Power Wall ranges from 1,250 to 1,600 lbs crated for shipment. Varies based on final style and quantity of Power Walls.
<b>Assembly</b>	Walk-In units shipped in sub-assemblies. Forklift, mechanical, and electrical resources required for minor assembly.
<b>Start-Up and Training Services</b>	DualDraw Start-Up Package includes assembly supervision, equipment optimization and diagnostics, and operator training.
<b>Shipping</b>	FOB Denver, CO. Discounted rates available.
<b>Preventative Maintenance</b>	Annual maintenance packages available. Includes equipment diagnostics and preventative maintenance, application assessment, full filter change, and written report.
<b>Regulatory</b>	Helps meet indoor air quality OSHA Standard 1910.1000 in addition to combustible dust regulatory standards such as NFPA 654 and 484.

## RENDERING - Walk-In Clean Air Station



WWW.DUALDRAW.COM  
800-977-2125

Contract Holder  
FSS Contract  
GS-25F-0161M

