

## Downflo® WorkStation Dust Collectors



# Downflo® WorkStation

## Outperforms All Other Collectors

The high performance Downflo® Oval family of over-achieving dust collectors is the best value available. A natural extension to the DFO family, Downflo WorkStations (DWS) are based on the same value proposition and provide more filtration capacity than other same-sized dust collectors. Downflo WorkStations are extremely versatile and add up to long-term savings, better performance, and maximum productivity.

The Downflo WorkStation's advantage is found in the collector's exclusive design and patented components. Featuring a ledgeless design in combination with patented Ultra-Web® filter media and cleaning technology, the DWS delivers exceptional performance in metalworking applications, wood applications, and process applications where high filtration efficiency and ledgeless construction is often a requirement.

Downflo WorkStations fit anywhere on the plant floor and apply NO restrictions to worker movements or visibility. The full line of WorkStations is designed specifically for those in-plant areas where dirty and/or noisy operations are out in the open—grinding, sanding, chipping, batch mixing or welding.

### DWS Offers:

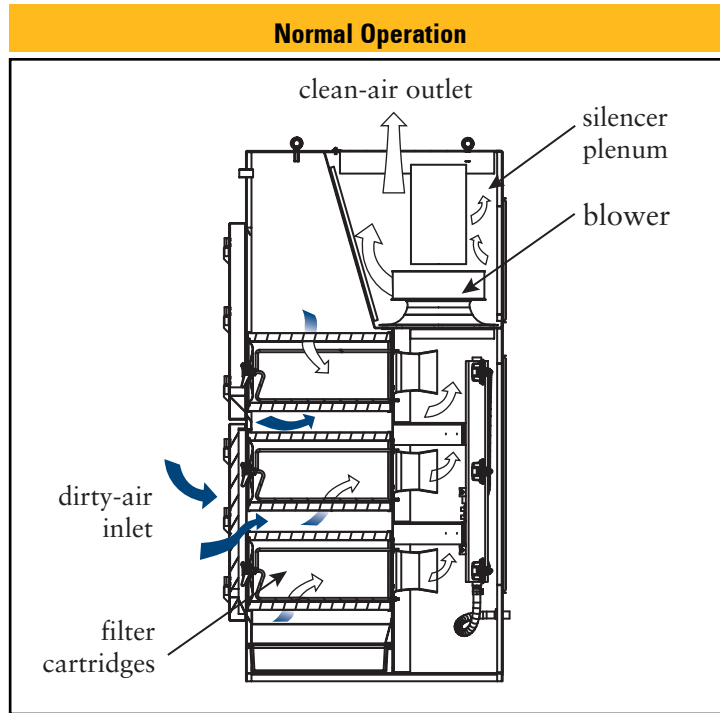
- **Flexible, modular** Self-contained workstations.
- **Innovative** Unique oval-shaped Ultra-Web® cartridge filters provide higher filtration efficiency and longer filter life.
- **Quick and easy filter access**  
Requires no tools.
- **Cost savings** NO hoods or ductwork required. Fewer filter changeouts and reduced filter disposal costs.
- **Energy savings** Recirculate clean air and eliminate the need for costly make-up air.
- **Powerful performance** Patented ExtraLife™ Filter Cleaning System cleans with low compressed air pressure of 50 psi.
- **Ledgeless construction** Reduces dust build up inside the collector
- **Reversible louver inlets**
- **10-year warranty**



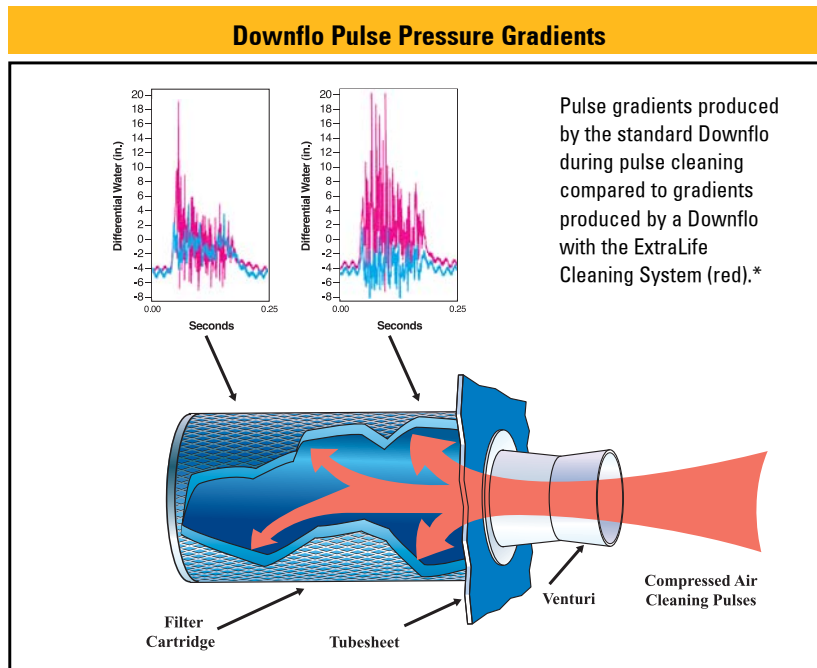
DWS 6

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## Sizes & Operations



**Pulse Cleaning Technology** ExtraLife Filter Cleaning System uses proprietary, computer-modeled pulse cleaning technology to easily “pulse off” dust from the surface of the filter, improving filtration efficiency and prolonging filter life.

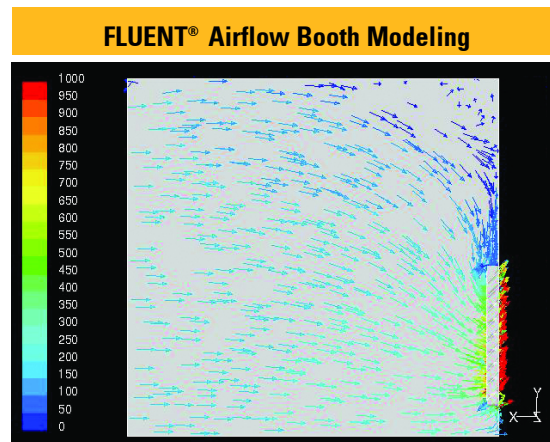


\* The red lines in the illustration show the increased pressure at the front of the Downflo filter generated by the ExtraLife system. The blue line shows the pulse signature of a standard cartridge collector.

# Downflo<sup>®</sup> WorkStation

## Engineered for Reliable Performance

**Downflo WorkStation Booth Packs** are a reflection of Donaldson Torit's commitment to technical research and development. Sophisticated FLUENT<sup>®</sup>\* airflow modeling software revealed that DWS booth packs are designed for adequate and consistent capture velocities at the booth opening and throughout the booth. No system imbalance, no air turbulence, no hot spots, no uncomfortable draft inside the booth that can upset working conditions.



**DWS Booths Are Designed** to remove fine airborne contaminants from the workers' breathing zone and provide a cleaner working environment in metalworking, woodworking, and process applications.



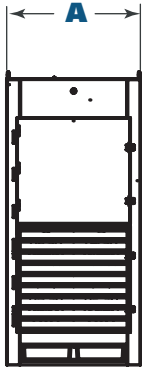
Models**	Canopy with Side Shields	Soft-Wall Weld Curtains	Soft-Wall Acoustical Curtains	Hard-Wall Galvanized Panels	Hard-Wall Acoustical Panels
Purpose	Most basic booth/hooding arrangement	Lightweight structure for use under most light conditions	Lightweight structure for moderate sound control	Heavy-duty structure/smooth walls for easy washdown	Heavy-duty structure for higher sound control
DWS 4-1	45 x 36 x 90	—	—	—	—
DWS 4-2	90 x 36 x 90	90 x 90 x 90	90 x 90 x 90	90 x 90 x 90	90 x 90 x 90
DWS 4-3	—	135 x 90 x 90	135 x 90 x 90	135 x 90 x 90	135 x 90 x 90
DWS 4-4	—	180 x 90 x 90	180 x 90 x 90	180 x 90 x 90	180 x 90 x 90
DWS 4-5+	—	Custom	Custom	Custom	Custom
DWS 6-1	45 x 36 x 90	67.5 x 90 x 90	67.5 x 90 x 90	Custom	Custom
DWS 6-2	90 x 36 x 90	135 x 90 x 90	135 x 90 x 90	Custom	Custom
DWS 6-3	—	180 x 90 x 90	180 x 90 x 90	Custom	Custom
DWS 6-4+	—	Custom	Custom	Custom	Custom

\* FLUENT is a registered trademark of Fluent, Inc.

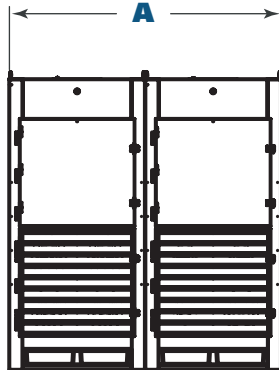
\*\* Dimensions are in inches.

# Downflo<sup>®</sup> WorkStation

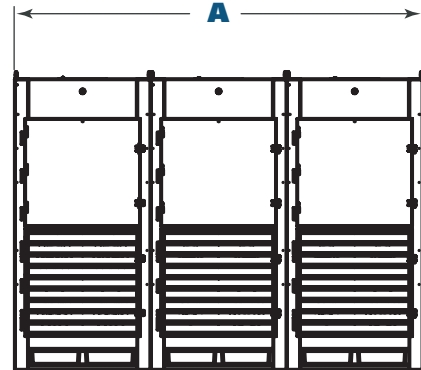
## Dimensions & Specifications



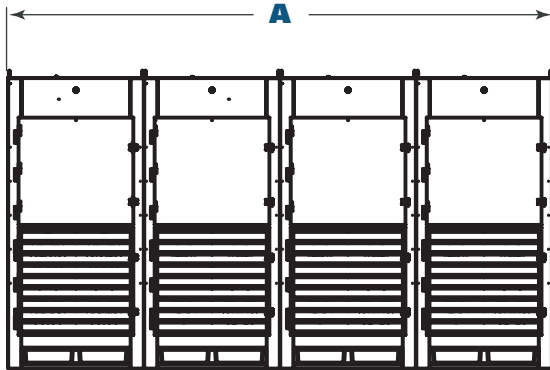
Front View  
DWS 4, DWS 6 - Models



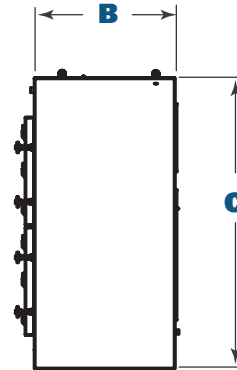
Front View  
DWS 4-2, DWS 6-2 - Models



Front View  
DWS 4-3, DWS 6-3 - Models



Front View  
DWS 4-4, DWS 6-4 - Models



Side View  
All Models

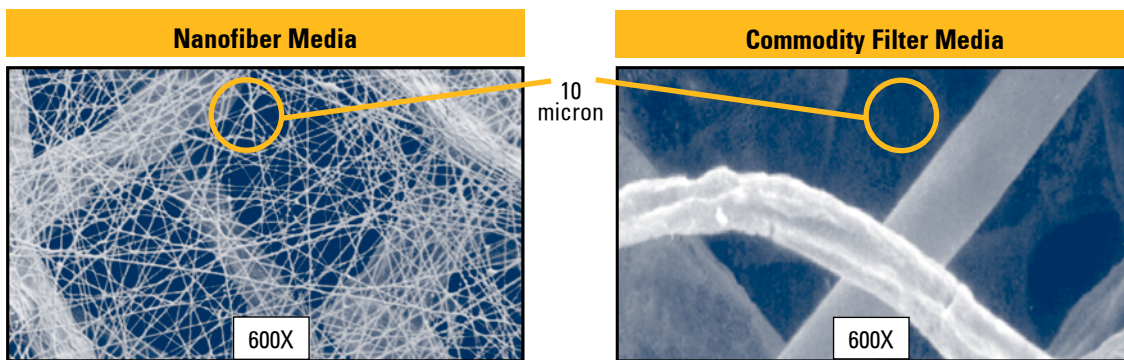
Base Model*	Modular Assemblies	Nominal Airflow** (cfm)	No. of Filters	Ultra-Web Filter Area (ft <sup>2</sup> )	No. of Modules	No. of Valves	No. of Dust Drawers	Shipping Weight (lbs)	Dimensions (inches)		
									A	B	C
DWS 4-1		4,500	4	760	1	4	2	1,300	45.0	47.8	96.0
	DWS 4-2	9,000	8	1,520	2	8	4	2,600	90.0	47.8	96.0
	DWS 4-3	13,500	12	2,280	3	12	6	3,900	135.0	47.8	96.0
	DWS 4-4	18,000	16	3,040	4	16	8	5,200	180.0	47.8	96.0
DWS 6-1		5,500	6	1,140	1	6	2	1,350	45.0	47.8	96.0
	DWS 6-2	11,000	12	2,280	2	12	4	2,700	90.0	47.8	96.0
	DWS 6-3	16,500	18	3,420	3	18	6	4,050	135.0	47.8	96.0
	DWS 6-4	22,000	24	4,560	4	24	8	5,400	180.0	47.8	96.0

\* The first number indicates number of filters in the power module, and the second number indicates number of power modules.  
 \*\* Based on clean filters.

# Downflo® WorkStation

## Cartridge Filter Technology

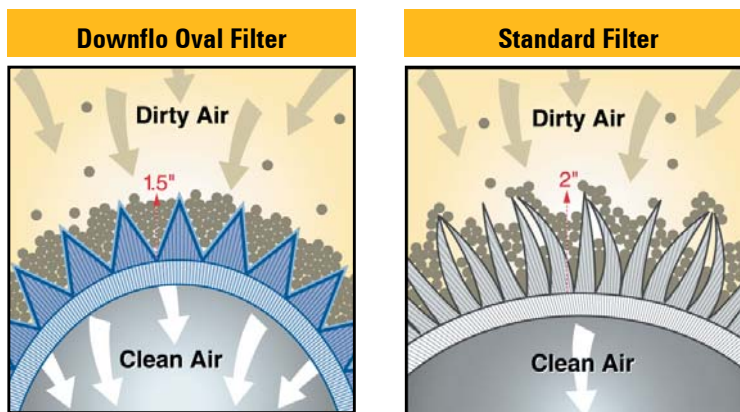
**High Performance Filters** The Downflo Oval filter design is another indication of Donaldson Torit's commitment to technical research and development. The distinguishing factor in our Ultra-Web® and Fibra-Web® filters is nanofiber filtration technology. *Ultra-Web nanofiber media* uses a layer of fibers 0.2 to 0.3 microns in diameter to capture contaminants on the surface of the media less than one micron in size. The resulting dust cake is easily cleaned off during the automated collector cleaning cycles, ensuring highest filtration efficiency and longest filter life.



Nanofiber technology is available in all Ultra-Web and Fibra-Web filter cartridges.

Conventional media has spaces of up to 60 microns between fibers, allowing dust to become deeply embedded.

**DFO Filter Media Pleats** Shorter and stiffer filter pleats help minimize dust entrapment and simplify filter cleaning. By reducing the height of the filter pleats from the standard 2 inches to 1.5 inches, the pleat wall is less likely to collapse or bend, which can encapsulate dust and prevent its expulsion.



**Cartridge Filters for Many Applications** The Downflo WorkStations in conjunction with Donaldson Torit's unique oval-shaped filter cartridges are an unbeatable system. Choose from our superior line of filters to complete the most powerful filtration solution available for your application.

# Downflo<sup>®</sup> WorkStation

## Standard Features & Equipment Options

	Standard	Optional		Standard	Optional
<b>Collector Design</b>			<b>Paint System</b>		
Ledgeless Construction 14 Gauge	X		Primed inside and out. Exterior surfaces finished blue.	X	
Tubesheet, Base Plate 10 Gauge	X		Custom Color		X
High Performance Acoustical Airfoil Fans	X		<b>Electrical Controls, Gauges and Enclosures</b>		
Aluminum Fan Wheels	X		Solid State Timer in NEMA 4 Enclosure	X	
TEFC Motors – 5, 7.5 HP, 60 Hz	X		Delta P or Delta P Plus Control Panels		X
TEFC Motors – 4, 5.5 kW, 50 Hz		X	IEC Control Panel		X
Fan Compartment Fully Lined w/Silencer Foam	X		Magnehelic <sup>®</sup> Gauge		X
ExtraLife™ Filter Cleaning System	X		Photohelic <sup>®</sup> Gauge		X
Compressed Air Required – 50 PSIG	X		<b>Booth Options</b>		
Fully Lined and Silenced Clean Air Plenum	X		Canopy w/Side Shields - Painted steel construction side panels swing out 90°.		X
Reversible Open Louver Inlet		X	Soft-Wall Weld Curtains - Galvanized steel frames with clear PVC roof panels and blue translucent PVC side panels approved for welding.		X
Spark Trap Inlet		X	Soft-Wall Acoustical Curtains - Galvanized steel frames with clear PVC roof and gray acoustical side panels.		X
Quick and Easy Filter Access	X		Hard-Wall Galvanized Panels		X
Acoustical Panel		X	Hard-Wall Acoustical Panels		X
Two Plastic Dust Drawers per Power Mod	X		<b>Booth Lighting Packs</b>		
Galvanized Steel Dust Drawers		X	Industrial Light Fixtures		X
Integral Silencer	X		Dust Tight Lens Fixtures		X
Chamber Silencer		X	Flush Light Fixtures		X
Caster Packs		X	<b>Sound Level**</b>		
Downdraft Bench Pack		X	5 HP & 4 kW Power Packs – 63 dB(A)		
Bag-Out Bag (Filter & Dust Drawer)		X	7.5 HP & 5.5 kW Power Packs – 68 dB(A)		
Sprinkler Pipe Coupling	X		LAEq Pulse Average – 84-86 dB(A)		
Sprinkler Pack Assembly		X	<b>Warranty</b>		
<b>Cartridge Filters</b>			10-Year Warranty		
Ultra-Web <sup>®</sup> Filters	X		X		
Fibra-Web <sup>®</sup> Filters		X			
Variety of Cartridge Filters		X			
HEPA/ASHRAE Afterfilters		X			

\* Magnehelic and Photohelic are registered trademarks of Dwyer Instruments, Inc.

U.S. Patents 6,488,746; 6,090,173; 5,562,746

Information contained in this document is subject to change without notice.

\*\* Sound measurements were taken in a hemianechoic chamber and under free-field conditions and do not reflect the influences of actual operating environments. Standard sound pressure levels were taken at an operator position of 1.5m high and 1m from each of the four sides of the cabinet.

**Donaldson® Torit®** Look to Donaldson Torit for all of your air filtration needs. Although you may not always see our products, you can breathe easier knowing we're there.

**Customer Support** For nearly 90 years, Donaldson Torit has been the leading innovator of air filtration solutions that make manufacturing plants a cleaner environment for employees the world over. Driven by an unwavering commitment to customer support, Donaldson Torit is the name more manufacturers around the globe trust to deliver the most efficient and productive dust, mist and fume collectors and filter media.

**Unparalleled Innovation** Whether our customers need a single collector or a multi-faceted collection system, Donaldson Torit has the solution. The expanse of Donaldson Torit's innovative product line is unmatched, offering unparalleled filtration systems, ancillary parts and replacement filters. From central, source and ambient systems to baghouse, envelope and cartridge technologies, Donaldson Torit has the expertise to provide filtration solutions for virtually any application.

**Global Reach** Donaldson Torit manufactures and markets its filtration products throughout the world. As more manufacturers continue to expand and grow their operations globally, Donaldson Torit will be there to serve and support our customers' needs.

**Built for Performance** Genuine Donaldson Torit replacement filters and parts can significantly improve the performance of your collectors. With hundreds of varieties to choose from and all in-stock orders shipped within 48 hours, Donaldson Torit is your best, most reliable source for premium performance replacement parts. Visit us at [www.donaldsondynamic.com](http://www.donaldsondynamic.com).

**Rely on the Industry Leader** When it comes to air filtration, you need a partner you can trust. Rely on the world leader in air filtration—Donaldson Torit.



**Donaldson®**  
*Filtration Solutions*

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