

# UNI-WASH DDB Series

## Wet Type Down Draft Bench Dust Collectors

### Standard Features

- AMCA Rated, Integral Direct Drive Fan Assemblies with Keyless Concentric Bushings
- Heavy Duty 10 Gauge, Solid Welded Housing Construction
- Galvanized Mist Eliminator Filtration Packs
- 304 Stainless Steel Internal Scrub Components
- Fresh Water and Drain Piping Connections
- Fork Slots & Lifting Lugs
- Rust Protective Epoxy Internal Coating
- Durethane® direct-to-metal heavy duty finish coating
- Fiberglass Grating
- Float Type Water Level Control

### Options

- Dual Sided Designs
- Stainless Steel Construction
- Electronic Differential Pressure Water Level Controls
- Explosion Proof Componentry
- NFPA Safety Packages
- Bench Partitions/Hoods
- Sound Insulation
- Lighting
- Custom Sizing

### Applications

- Hand Tool Operations
- Combustible Metal Processing
- Bagging/Mixing Operations
- Hot or Heavy Sparking Processes



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Dust & Oil Mist Collection Equipment For Industry

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### Uni-Wash Wet Type Down Draft Bench Dust Collectors

are a self-contained, economical means of removing airborne contaminants from most hand-held industrial processes.

Metal grinding, de-burring, sanding, and bagging operations benefit from surface capture through the patented five stage water-wash process. Down draft air flow forcefully pulls contaminants away from the worker and the product at an outstanding average of *300 feet per minute* at the work deck

Industrial blower configurations rapidly force contaminants against a series of vertical and horizontal water walls and baths. The cleaned air is then dried by forceful impingement against a series of mist eliminator filtration packs. No nozzles, pumps or piping is required. Water use is minimal.

**Uni-Wash Wet Type Down Draft Benches** are available in a wide variety of volumes and bench sizes. These units ship complete with an integral AMCA rated backward curved fan assembly that is dynamically balanced at the factory prior to shipment, assuring smooth, vibration free operation.

Units also feature direct-drive motors, stainless steel scrubber components, pre-wired and mounted motor controls, and rugged fiberglass grated work surfaces.

Water level control is through the use of a unique float-type mechanical control system. Internally, each unit features a corrosion resistant 2-part epoxy coating. The heavy duty 10 gauge housing is primed and finished with a Durethane DTM® heavy duty industrial mastic coating and comes complete with all fresh water and drain piping connections for immediate plant installation.

Wet type dust collectors are recommended by the NFPA (National Fire Protection Association) for use in combustible metal applications such as aluminum, titanium, magnesium, and lithium finishing processes.



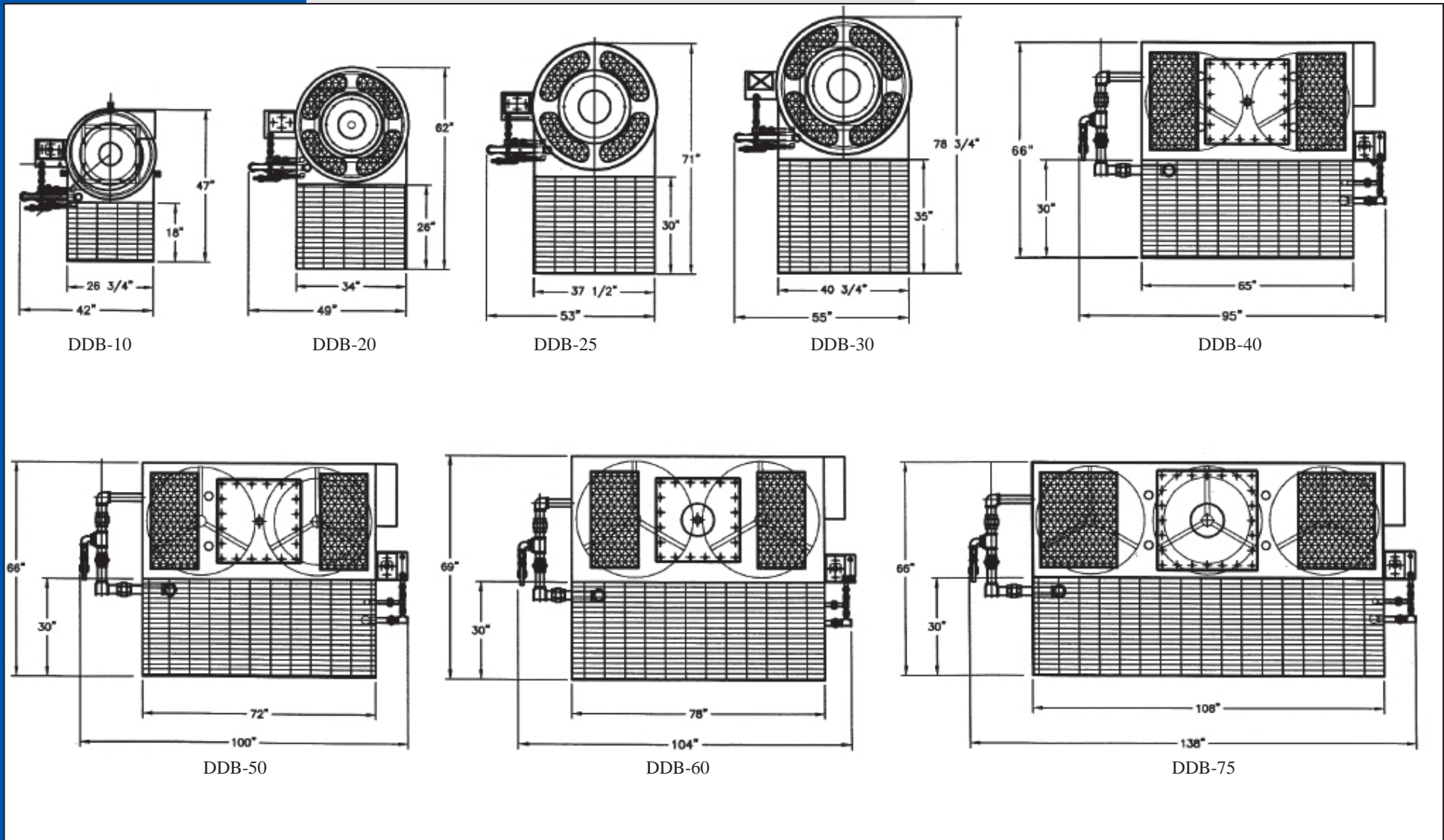
New Model DDB-125 with wider 180" x 30" work surface for multiple station use.



Model DDB-10 with 27" x 18" work surface, shown with light, ceiling, and side panel options.

# UNI-WASH DDB Series Wet Type Down Draft Bench Dust Collectors

Below is a chart showing a plan view of various sizes of the Uni-Wash DDB Series Down Draft Bench. ProVent, provides 2 larger model sizes in addition to what is shown (DDB-100, DDB-125). Larger benches can easily be divided to create multiple work stations using an optional removable bench partition. In addition, ProVent provides the same units in a dual sided configuration. Custom configurations are always welcome.





# UNI-WASH<sup>DDB</sup>

## Wet Type Down Draft Bench Dust Collectors



Uni-Wash Model DDB-40 shown with optional electronic differential pressure water level control in preparation for shipment.

<b>UNI-WASH</b>		<b>Wet Type Downdraft Bench Dust Collectors, DDB Series Specifications</b>										
<b>Model</b>	<b>DDB-5</b>	<b>DDB-10</b>	<b>DDB-20</b>	<b>DDB-25</b>	<b>DDB-30</b>	<b>DDB-40</b>	<b>DDB-50</b>	<b>DDB-60</b>	<b>DDB-75</b>	<b>DDB-100</b>	<b>DDB-125</b>	
<b>Volume, CFM</b>	500	1,000	2,000	2,500	3,000	4,000	5,000	6,000	7,500	10,000	12,500	
<b>Capture Velocity, FPM at deck</b>	301.9	299.1	325.8	320.0	302.9	295.4	333.3	295.4	333.3	333.3	333.3	
<b>Static Pressure, (Total, in. wg)</b>	3	3	5	4	4	4	4	4	4	4	4	
<b>Bench Width</b>	18	26.75	34	37.5	40.75	65	72	97.5	108	144	180	
<b>Bench Depth</b>	13.25	18	26	30	35	30	30	30	30	30	30	
<b>Bench Area (sq ft)</b>	1.66	3.34	6.14	7.81	9.90	13.54	15.00	20.31	22.50	30.00	37.50	
<b>Height</b>	27	30.125	30.125	30.125	30.125	36	36.125	36.125	36.125	36.125	36.125	
<b>Dry Weight</b>	650	900	1200	1350	1550	2800	3100	3450	4300	4800	5300	
<b>Motor, HP</b>	0.5	1	3	3	3	5	5	5	7.5	15	(2) 7.5	
<b>Electrical</b>	460 Volt/3 Phase/60 Hertz											
<b>Fan Type</b>	TEK225	TEK250	TEK315	TEK315	182 BC 74	182 BC	200 BC 91	200 BC	222 BC 83	245 BC 88	(2) 200 BC	
	Injection Molded GRP Polymide, Backward Curved Airfoil, AMCA-B Spark-Resistant, corrosion-proof, stronger than steel/half the weight/lower HP					AMCA Rated, Backward Curved, Single Width, Mild Steel						
<b>Housing Construction</b>	10 gauge and 3/16", Solid Welded											
<b>Work Deck Construction</b>	1.5" x 1.5" square x 1.5" tall pattern, molded fiberglass, 65% resin by weight, excellent strength and corrosion resistance											
<b>Work Deck Load Capacity (lbs)</b>	500	500	700	700	700	700	700	700	700	700	700	
<b>Scrub Components</b>	304 Stainless Steel											
<b>Internal Tank Coating</b> <i>(corrosion protection)</i>	AmerLock-2 by Ameron is a <b>2-Part Epoxy</b> that provides <b>exceptional corrosion protection in harsh industrial &amp; marine corrosive environments.</b>											
<b>External Coating</b>	Durethane DTM by PPG is a direct-to-metal <b>Urethane Mastic</b> coating that is chemically resistant and extremely durable. It provides <b>excellent corrosion resistance and has superior color and gloss retention, excellent adhesion, UV protection, and is abrasion and mar resistant.</b>											
<b>Motor Controls</b>	NEMA 12 Start/Stop Station with overload protection, Optional Face Mounted Combination Stater Package with Disconnect, Buttons, Lights on units purchased with Electronic Differential Pressure, 4-Point Water Level Control. Optional NFPA Package adds Airflow Switch with Auxillary Contact for connection to dust producing equipment, Horn, Light for NFPA compliance. Variable Frequency Drive available.											
<b>Water Level Control</b>	Mechanical Float Type, Optional Electronic Differential Pressure, 4-Point with Automatic Fill and High/Low Fill Shutdown, 2 Photohelics, integral to control panel											



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Uni-Wash Model DDB-40 Wet Type Downdraft Bench Dust Collector with optional bracket mounting lighting.



Uni-Wash Model DDB-75 Custom Dual Sided Quad Station Wet Type Downdraft Bench Dust Collector.



All units come pre-plumbed with necessary water supply and drain piping and valves. Also included is a compressed air connection for keeping the pipe clear of obstructions during draining.