



Wet Type Source Capture Dust Collection Systems

Unique to the **Uni-Wash** dust collectors, there are no nozzles, piping or water pumps to clean. Our patented orifice/impingement design never clogs and provides the greatest efficiency at the lowest horsepower compared to any other wet type dust collector on the market.

Applications

- Metal Finishing
- Food Processing
- Shot Peening
- Sand Blasting
- Biomedical Manufacturing
- Pharmaceutical Processes

Features

- AMCA Rated, Integral Direct Drive Fan Assemblies
- Heavy Duty 12 Gauge, Solid Welded Housing Construction
- 304 Stainless Steel Scrub Components
- Galvanized Mist Eliminator Filtration Packs
- Fresh Water and Drain Piping Connections
- Rust Protective Two-Part Epoxy Internal Coating
- Durethane® Marine Grade Heavy Duty Finish Coating
- Float Type Water Level Control

Options

- Blowers for Non-Standard Air-flow
- Stainless Steel Construction
- Electronic Differential Pressure Water Level Controls
- Explosion Proof Componentry
- NFPA Safety Packages
- Automatic Sludge Conveyors
- Variable Frequency Drives
- Soft Start Controllers
- Lexan Water Level Windows
- Ducting Transitions

THE SCRUB



Orifice / Impingement

The most important part of a wet-type dust collector is the scrub. Our patented design consists of a large orifice, a specially engineered scrub cone and target plate to create a scrub of impingement and water curtains. This allows our machines to operate at lower horsepower and increased efficiency compared to any other design.

Specifically, Uni-Wash collectors consume only 3" wg with an efficiency of 95% down to 3 microns. This design will never clog preventing costly repairs and down-time.

Uni-Wash Wet Type Dust Collectors continue to be the most reliable, low-cost option for hazardous dust collection. An industry standard for over 70 years.

A CLOSER LOOK

Model UC-5 thru Model UC-30

These small footprint models are effective in a variety of industrial applications where wet type dust collection is necessary. Operating from 500 CFM to 3,000 CFM, these units use a single scrub cone assembly.



Model UC-40 thru Model UC-300



Providing between 4,000 CFM and 30,000 CFM. These models are designed for larger applications and utilize multiple scrub cones. An optional sludge conveyer (shown) is available on these powerful and efficient models.

A WORD ABOUT NFPA

NFPA 9.4.12.6.1

*"The power supply to the dust-producing equipment shall be interlocked with the **airflow** from the exhaust blower and the **liquid-level** controller of the collector so that improper functioning of the dust-collection system will shut down the equipment it serves.."*

Only ProVent Delivers:

Both water level and motor controls are integrated into a single, custom control panel which includes a transformer and disconnect features. This option ensures a **true four point automatic water level control**.

The **NFPA Safety Package** option integrates an **airflow switch**, **audio/visual alarms**, and **auxiliary contact** into the control panel. The auxiliary contact provides the customer the ability to connect the dust producing equipment to the dust collector per NFPA guidelines.

SPECIFICATIONS & MODELS



UNI-WASH	Wet Type Dust Collector Specifications														1/30/2014	
Model Description	UC-5	UC-10	UC-20	UC-25	UC-30	UC-40	UC-50	UC-60	UC-75	UC-100	UC-125	UC-150	UC-200	UC-250	UC-300	
Air Flow (CFM)	500	1,000	2,000	2,500	3,000	4,000	5,000	6,000	7,500	10,000	12,500	15,000	20,000	25,000	30,000	
Ext. SP (in.wg.)	5	4	6	5	4	7	7	8	8	8	8	8	8	8	8	
Motor/Fan RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	
TEFC Motor, HP	1.5	2	5	5	5	15	15	20	25	40	(2) 20	(2) 25	(2) 40	(4) 20	(4) 25	
Drive Configuration	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	
Primary Voltage	460 Volt 3 Phase 60 Hertz															
Full Load Amps	2.6	3.4	7.6	7.6	7.6	21	21	27	34	52	2 x 27	2 x 34	2 x 52	4 x 27	4 x 34	
Dry Weight (lbs.)	400	650	720	850	960	3,100	3,500	3,900	4,300	4,800	5,400	10,000	12,500	16,000	18,500	
Tank Capacity (US gal)	20	42	87	97	113	260	289	330	428	577	713	683	853	1,066	1,310	
Fresh Water Connection	¾" NPT, Female										1 ¼" NPT, Female					
Drain Connection	1 ¼" NPT, Female										2" NPT, Female (2 on UC-250,300)					
Integral Fans	907RBW, 51	TEK315	TEK355			165, 73, C3	165, 90, C3	182, 71, C3	182, 90, C4	200, 82, C5	(2) 182, 73, C4	(2) 182, 90, C3	(2) 200, 82, C5	(4) 182, 73, C3	(4) 182, 90, C4	
	AMCA Rated, Radial, Mild Steel	Injection Molded GRP Polyamide, Backward Curved Airfoil, spark-resistant, corrosion-proof, stronger than steel/half the weight/lower HP			AMCA Rated, Backward Curved, Single Width, Mild Steel											
Housing Construction	7, 10 and 12 gauge, 3/16" and ¼" plate, Solid Welded															
Scrub Components	304 Stainless Steel															
Internal Tank Coating	AmerLock-2 by Ameron is a 2-Part Epoxy that provides exceptional corrosion protection in harsh industrial & marine corrosive environments.															
External Coating	Durethane DTM by PPG is a direct-to-metal Urethane Mastic coating that is chemically resistant and extremely durable. It provides excellent corrosion resistance and has superior color and gloss retention, excellent adhesion, UV protection, and is abrasion and mar															
Water Level Control	Mechanical Float Type, Optional Electronic Differential Pressure, 4-Point with Automatic Fill and High/Low Fill and Shutdown, 2 Photohelics, integral to control panel													4 Point WLC Standard		
Motor Controls	NEMA 12 Start/Stop Station with overload protection, Optional Face Mounted Combination Starter Package with Disconnect, Buttons, Lights on units purchased with Electronic, 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.													Face Mounted Combo Starter Pkg Standard		
Other Options	Single or Dual Strand Automatic Sludge Conveyor, Lexan Viewing Window, Leveling Screws, Inlet/Outlet Variations, Custom Colors, Duct Transitions and Fittings															