UNI-WASH UC Series

ProVent

Ducted Applications over 4,000 CFM

The most efficient wet dust collectors on the market, the Uni-Wash series of wet dust collectors are capable of collecting dust down to 3 micron in size consuming only 3" wg. static pressure

Wet type dust collection is required for the safe collection of combustible metal dust. Wet Type Dust Collection has also been used effectively in many other difficult applications in place of cartridge collectors. ProVent's unique scrub design has been an industry standard for over 40 years and continues to lead the industry in Wet Type Dust Collection efficiency.

Standard Features

- **Integral High Efficiency Fan Assemblies**
  - AMCA Backward Curved Mild Steel
- **Photohelic Gauge**
  - Measures differential pressure across the scrub to monitor airflow and water level.
- **304 Stainless Steel Scrub Components**
  - Superior construction where it is needed the most.
- **2-Part Epoxy Internal Tank Coating**
  - AmeriLock-2 by Ameron provides exceptional corrosion protection in harsh industrial and marine corrosive environments.
- **Urethane Mastic External Coating**
  - Durethane DTM by PPG chemically resistant and extremely durable. Provides excellent corrosion resistance with superior color and gloss retention.
- **95% Efficient utilizing only 3" wg**
  - The most efficient wet dust collector available which has become an industry standard over the past 40 years.
- **NFPA Compliant with AccuScrub Controls**
  - Touchscreen controls / NEMA 3R/4/12 Enclosure / Ultrasonic water level control / Face mounted rotary disconnect / E-Stop / 24V components / Stack light with audible and visual alarms / Process interlock. Custom controls available.

COMBUSTIBLE METALS

ProVent's line of Uni-Wash Wet Dust Collectors meets or exceeds NFPA #484 for combustible metals including:

- Aluminum Dust
- Titanium Dust
- Magnesium Dust
- Zirconium Dust
- Tantalum Dust

BEYOND COMBUSTIBLE METALS

FOOD PROCESSING

ProVent has provided the food industry and others with 100% 304 Stainless Steel Wet Type Dust Collectors for the collection of a variety of airborne contaminates. If you think your application might benefit from the best designed, most efficient wet type dust collector on the market, look to ProVent and water filtration.

PHARMACEUTICAL

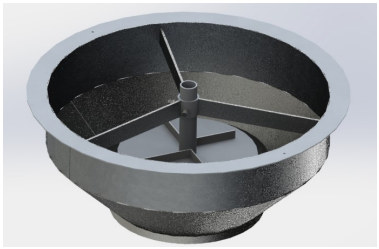
Utilizing water as a filtration device for pharmaceutical and biochemical dusts has it's benefits. Beyond the cost savings of not having to replace filter cartridges, employee exposure to potentially hazardous dust during this maintenance operation is relieved.

sales@proventilation.com P. 800-610-6010
Manufactured in Harbor Springs, Michigan

ProVent

Uni-Wash—The Industry's Leading Scrub Technology

The Uni-Wash scrub technology has been continually manufactured for over 40 years. This tried and true "orifice / impingement" technology offers many benefits unmatched by other manufactures of wet type dust collection. Utilizing airflow to produce the scrub means that there are no pumps or nozzles to clog. Additionally, this makes our wet type dust collectors more energy efficient requiring lower horsepower than other designs.



The stainless steel components of the Uni-Wash scrub are designed with a large opening that will never clog and can be cleaned effectively reducing maintenance costs. The use of the optional Sani-Ball cleaning system reduces maintenance even further.

Efficiencies of up to 99% can be reached due to the incredible turbulence created by the Uni-Wash scrub. In this turbulence, a high rate of particulate to water contact is made increasing the efficiency while consuming a mere 3" wg.

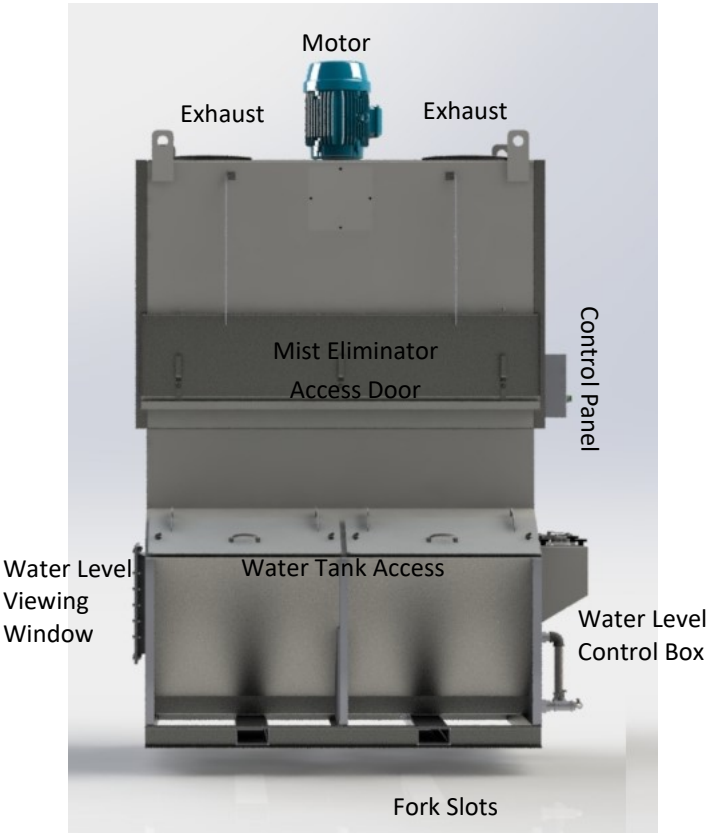
A WORD ABOUT NFPA 484

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.."

ProVent Delivers: Both water level and motor controls are integrated into a single, custom control panel which includes a transformer and disconnect features.

The NFPA Safety Package option integrates airflow monitoring, audio/visual alarms, a positive vent fan 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

Standard Uni-Wash UC



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Uni-Wash— Control Options

ACROSS THE LINE STARTER

The Across-The-Line provides a contactor and push buttons to start and stop the collector

COMBINATION STARTER

The Combination Control Panel provides the below enhancements to the Across-The-Line starter.

- Rotary Disconnect
- E-Stop

AccuScrub Control Panel

AccuScrub By ProVent

NFPA 484 COMPLIANT

- **7 INCH HMI TOUCHSCREEN**
- **DISCONNECT**
- **ULTRASONIC WATER LEVEL CONTROL**
- **E-STOP**
- **PROCESS INTERLOCK**
- **STACK LIGHT / HORN**
- **HIGH/LOW WATER ALARM**
- **LOW AIR ALARM**
- **24V LOW VOLTAGE COMPONENTS**
- **MOTOR TEMP MONITORING**

AccuScrub PRO Control Panel

AccuScrub PRO By ProVent

NFPA 484 COMPLIANT

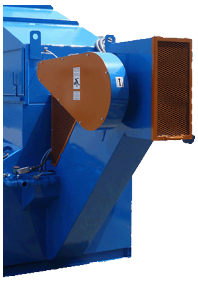
The AccuScrub PRO includes everything in the AccuScrub plus the additional items listed below.

- **10 INCH HMI FOR DIRECT USER INTERFACE, INPUT CONTROLS AND REAL-TIME OPERATING STATUS**
- **VARIABLE FREQUENCY DRIVE**
- **PID LOOP FOR OPTIMAL PERFORMANCE**
- **REAL-TIME OPERATING STATUS**

Popular Options

All ProVent equipment is available in painted or unpainted stainless steel. Popular with the food processing industry, stainless steel provides cleanliness and longevity to the equipment.

Automatic sludge conveyance continually removes sludge buildup from the bottom of the water tank. An excellent option when heavy dust loading is present.



ProVent Silencers reduce the noise level produced by the exhausted air. ProVent manufactures silencers that are perfectly matched to the collectors they serve.

The Sani-Ball cleaning system uses powerful 316 stainless steel spray nozzles to simplify and improve the cleaning process.

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Specifications

	UC-40	UC-50	UC-60	UC-75	UC-100	UC-125	UC-150	UC-200	UC-250	UC-300
Air Flow (CFM)	4,000	5,000	6,000	7,500	10,000	12,500	15,000	20,000	25,000	30,000
Ext. SP (in. Wg)	7	7	8	8	8	8	8	8	8	8
Motor / Fan RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450
TEFC Motor, HP	15	15	20	25	30	40	50	2 (30)	(2) 40	(2) 50
Drive Config	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Primary Voltage	460Volt 3 Phase 60 Hertz									
Full Load Amps	21	21	27	34	52	(2) 27	(2) 34	(2) 52	(4) 27	(4) 34
Dry Weight (lbs)	3,100	3,500	3,900	4,300	4,800	5,400	10,000	12,500	16,000	18,500
Tank Capacity (US GAL)	260	289	330	428	577	713	683	853	1,066	1,310
Fresh Water Connection	3/4" NPT, Female					1 1/4" NPT, Female				
Drain Connection	1 1/4" NPT, Female					2" NPT, Female				
Integral Fans	AMCA Rated, Backward Curved, Single Width, Mild Steel									
Housing Construction	7, 10 and 12 gauge, 3/16" and 1/4" plate, Solid Welded									
Scrub Components	304 Stainless Steel, Scrub Cone, Target Plate, Adjustable Riser, Spider Support Assembly									
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									
Water Level Control	Low Maintenance mechanical float type with auto shutdown									
Motor Controls	NEMA 12 Start/Stop Station with overload protection, Optional HMI Option replaces the standard motor controls with a custom NEMA 12 control panel which includes E-stop, disconnect, LCD touchscreen, and variable frequency drive (VFD). It replaces the standard float type water level control valve with an ultrasonic eye and solenoid valve in the supply plumbing for electronic water make-up, and high and low level emergency shutdown. Primary voltage to VFD is 460V/3Ph/60hz. Secondary voltage for internal control components is 24V.									