Single Source for Your
Air Pollution Control Equipment & Service Needs

Benefit From Our Decades of APC Engineering & Design Solutions

www.CP-Environmental.com
www.UnitedProcessControl.com
Micronics designs, engineers and installs new baghouse equipment along with upgrades, conversions & rebuilds of your existing equipment for numerous industries, including yours. A partial list of industries served by Micronics include:

- Steel and Iron Processing, Foundries
- Waste-to-Energy (WTE), Biomass & other Renewable Energy
- Power Generation, industrial Boilers
- Aggregates, Cement, Lime & Asphalt Production
- Non-ferrous Metal Processing
- Food Processing
- Grain, Seed, Sugar, Fertilizer plants
- Chemicals, Plastics, Paint & Pigments
- Minerals & Clay
- Carbon Black Production
- Coal Processing
- Wood products, Building products production, Paper Processing
- Grinding, Polishing, Welding operations
- Manufacturing for OEMs

At Micronics, our aim is to be your turnkey baghouse solutions provider, your single source for new Pulse-Jet Baghouse equipment along with baghouse maintenance and repair services & replacement bags and parts for all makes and models of dust collectors.

We strive to provide you with wide-ranging APC industry knowledge and the proven engineering expertise to meet your dust control challenges head-on.

**Contact us to learn more about our engineering and design experience in serving your industry.**

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From New Pulse-Jet Baghouse Dust Collector Equipment Designs to Upgrades and Conversions, Troubleshooting, and Complete Maintenance & Repair Services, Let Us Be Your Turnkey APC Source.

_The Dust Stops Here._

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Clean Air Plenum replacement on an existing pulse-jet baghouse
When you turn to the Micronics team, you benefit from rugged, durable and dependable Pulse-Jet Baghouse Dust Collectors, and years of experience.

Our dust collectors are custom-engineered for expertly filtering polluted air from a variety of demanding industrial processes and discharging clean air into the environment.

Our standard square and rectangular dust collectors are rated for vacuum pressure of 20” W.G., and are available in both side and top-bag removal designs. Side filter bag removal allows for installation in low headroom situations. Top removal designs allow for access from the clean air side of the unit, and are available with an optional Walk-in Clean Air Plenum that allows for servicing the baghouse in adverse weather or Lift-Off Roof Doors for easy access.

Our Pulse-Jet Dust Collectors are equipped with pleated filters or with conventional filter bags and cages. Ask us for recommendations to optimize your dust collector's performance. We can offer you high-quality filter bags in an array of filter media, finishes, and configurations from Micronics’ own state-of-the-art filter bag manufacturing facilities.

Pulse-Jet Filter Receivers

Our Pulse-Jet Filter Receivers are ideally-suited to higher-pressure applications where there is high pressure pneumatic conveying or a high-vacuum dust collection need. They are also used in complying with 3A sanitary standards or company-specific sanitary design standards, where corners may not be permissible due to cleanout requirements. These units are cylindrical or a circular-bodied construction and rated for 17” Hg.

With Micronics Engineered Filtration, you get custom engineered solutions. Our pulse-jet filter receivers are equipped either with pleated filters or conventional filter bags and cages. Contact us to learn more.
Pulse-Jet Bin Vent Filters and Dump Stations

Pulse-Jet Bin Vent Filters

Using our Bin Vent Filters, you can effectively filter dry bulk materials at material destination points such as bins, hoppers, and silos. They are suitable for any dry bulk material conveyed pneumatically. Our standard square or rectangular Bin Vents are rated for pressure of 20” W.G., and bolt directly onto the bin.

The material collected on the filter media is pulse-cleaned with a short burst of high-pressure compressed air delivered through a pulse pipe, and then dropped back into the bin. Cylindrical housings are also available with a design pressure of 17” Hg.

Our Bin Vents may be equipped with pleated filters or conventional filter bags and cages. We will assist you with a custom-engineered solution that is right for your plant’s needs.

Pulse-Jet Bag Dump Stations

Our rugged, sturdy yet compact Bag Dump Stations – or Manual Dumping Stations – collect the dust generated when dumping bulk solids from bags and other containers, and allow you to handle bagged material in a dust-free environment.

Our standard Bag Dump Station is rated for 20” W.G. It is free-standing and includes integral dust collection, interior grating, a hinged dump door with gas-charged cylinders, a quick-opening access door, and a cast-aluminum pressure blower.

The legs and hopper may be omitted and replaced with a flange to directly mount on mixers or surge bins. Our Bag Dump Stations may be equipped with pleated filters or with conventional filter bags and cages.

With decades of experience, you can rely upon our APC engineering & design expertise. Our team will assist you with a custom-engineered solution that is right for your plant’s needs.

The Dust Stops Here.
Horizontal Collectors, Baghouse Spark Arrestors & Cyclone Filters

Horizontal Pulse-Jet Dust Collectors

In addition to the more traditional vertical designs, we specialize in compact, easy-to-service Horizontal Pulse-Jet designs. The horizontal design is well-suited for collecting fumes, smoke and other harmful airborne contaminants from various industrial processes and for situations where there is limited headroom and easy-to-access filter bags are a priority for ongoing maintenance.

The filters can be quickly and safely removed and replaced without entering the Dirty Air Plenum. Our horizontal dust collectors are equipped either with a cellulose/polyester fabric blend or spun-bonded polyester cartridge filters. It is not uncommon to achieve 99%+ filtration efficiencies.

Baghouse Spark Arrestors

Baghouse Spark Arrestors are a key line of defense in preventing fires and potentially devastating dust explosions in your Baghouse. They work to extinguish sparks and embers in the inbound dust before they enter the baghouse. Typical applications for our spark arrestors include processes that produce embers or sparks such as grinding, welding, polishing, buffing, smelting, and belt sanding.

Our units, rated for 20” W.G., are designed with internal baffle diffusers, and have no moving or replaceable parts. They are sized to maintain a low differential pressure drop; they also act as drop-out boxes and significantly reduce the dust going into the dust collector, resulting in longer filter bag life.

Cyclone Filters

Our high-efficiency Cyclone Filters are particularly well-suited to applications generating heavy, coarse particulate. Choose a Cyclone for a variety of uses: as a Product Receiver, alone as an independent dust collector for large, coarse particulate; or as a pre-cleaning filter to reduce the load on your Pulse-Jet Dust Collector.

Our Cyclone Filters have no moving or replaceable parts, and are sized for a low DP drop, typically 3”-4” W.G. Applications may include processes such as buffing, grinding, machining, abrasive blasting, and woodworking.

Cyclone units use high-velocity, cyclonic action to separate the heavy particulates from the gas stream. These units are designed for either indoor or outdoor use and are rated for 20” W.G.
AeroPulse® Brand of Pulse-Jet Dust Collectors and Systems

The AeroPulse® brand of Pulse-Jet Baghouses has been providing excellent, reliable and efficient dust collector performance since 1980. AeroPulse joined the Micronics Engineered Filtration Group in 2015 and the legacy of providing customers with excellent, customized APC engineering and design solutions continues.

AeroPulse® baghouses - like all our APC equipment - are designed to provide longer bag life, easy bag removal, reliable service, and dust collector longevity for your peace-of-mind. Pulse-Jet dust removal is the key to the high-efficiency and low operating costs for our baghouses.

If you have been a longstanding AeroPulse® customer, you know that the AeroPulse bag assembly utilizes the “Twist Lock” venturi for ease of bag removal.

AeroPulse® brand baghouse designs allow for easy maintenance using “true top bag removal,” which eliminates the need for workers to enter the collector to change bag, and eliminates space requirements for internal catwalks.

AeroPulse® brand baghouses are available in stationary, portable, and semi-portable versions, custom-tailored to your application by our outstanding, dedicated engineered solutions team.

Whatever your Pulse-Jet Baghouse design, fabrication, installation, and service needs, your air pollution control and dust collector systems specialists at the Micronics Engineered Filtration Group can assist with personalized service.

Contact Micronics for Maintenance, Service & Parts For Your Existing AeroPulse® Pulse-Jet Baghouse.
There have been many advances in dust collector designs and capabilities and Micronics brings you years of proven expertise in new Pulse-Jet dust collector equipment design, engineering, manufacturing, equipment installation & on-going performance evaluations. But, not everyone is in a position to purchase a new unit.

It is reassuring to know that Micronics can provide you with the knowledge, expertise and manpower to convert, rebuild or upgrade your existing dust collector to a more functional, efficient & compliant APC system.

Updating your existing system from a Mechanical Shaker or Reverse-Air Dust Collector may deliver benefits like improved dust collection efficiency, longer filter bag life, and reduced operating costs.

Our team can design, fabricate, and install Clean-Air Plenums, tube sheets and hoppers, and reline/rebuild Clean and Dirty-Air Plenum walls.

When we convert/upgrade your existing baghouse equipment, we will typically leave the inlet piping, electrical cabling and foundations intact, resulting in potentially substantial cost-savings over new equipment installations.

Contact the experts at Micronics Engineered Filtration to see if conversion and upgrading bottom-bag to top-bag removal designs are right for your APC system needs.

Ask us about our expertise in core conversion of your existing dust collector to a more efficient Pulse-Jet design.
You may have known us individually as C.P. Environmental (“CPE”), Clean Air Technologies, a division of CPE, or United Process Control (“UPC”). CPE and UPC joined the Micronics Engineered Filtration Group in 2015. Combined, our companies have a 70+-year heritage in expertly serving the industrial air pollution control industry’s needs in North America.

Now, under the Micronics Engineered Filtration banner, you can benefit from a full range of wet and dry filtration expertise. From filter presses and filter cloth to new APC equipment; baghouse retrofits, conversions and upgrades; baghouse maintenance & repair service; and high-quality filter bags manufactured in-house, Micronics offers you the best in Engineered Filtration.

Members and leading brands within the Micronics Engineered Filtration Group include:

- C.P. Environmental, LLC
- United Process Control, Inc.
- Southern Filter Media, LLC
- AeroPulse®
- Micronics, Inc.

Contact us so that we may put our expertise to work for your APC System challenges.