ProTura® nanofiber filtration technology shown at a magnification of 5,000x. The surface layer is extremely thin and finely pored for maximum filtering efficiency.

Cartridge or panel style, durable Turbo Pulse GT filters with ProTura nanofibers keep your turbine systems operating at peak efficiency in the harshest environments. They block out dust, pollen, sand and salt, providing the highest efficiencies and lowest delta P in pulse-jet or non-pulsing barrier systems. Turbo Pulse GT filters reduce pressure drop to increase turbine output and extend service life.

Also available in cellulose and polyester blend and 100% synthetic media, Turbo Pulse filters with ProTura technology feature:

- Moisture-resistant nanofibers and highest MERV 15 rating in the industry
- Heavy-duty, high-strength construction
- Galvanized helix expanded or stainless steel expanded liners
- Galvanized or stainless endcaps

ProTura® technology offers longer filter life and lower filter replacement costs.
MAXIMUM FILTRATION FOR INDUSTRIAL DUST COLLECTION

Turn to Clark Filter for innovative solutions in environmental dust collection. Clark Filter manufactures the broadest line of premium, OEM-specified filters for use in nearly any industrial application, including powder coating, chemical processing, food production, paper manufacturing, pharmaceuticals, power generation, welding and plasma cutting, and more. Always on the leading edge of innovation, Clark Filter also develops and manufactures in-house the next generation of filtration technology — ProTura® Advanced Nanofiber Filtration Technology.

Finest polymer fibers, industry-highest MERV rating

With 99%+ efficiency on 0.3-0.4 micron particulate, ProTura nanofiber filters provide maximum filtration. In fact, nothing matches ProTura performance in cartridge-style dust collectors. With nanofibers 50% smaller than competitive fibers and an industry-highest MERV 15 efficiency rating, ProTura nanofiber filters significantly outperform competitive cartridges in ALL industrial dust-collection applications.

Specify the advantages of ProTura nanofiber technology for your dust collector:

- **50% finer nanofibers** provide maximum filtration of submicron particles and lower outlet emissions
- **MERV 15 efficiency rating** is the highest of any standard cartridge filters. A higher MERV rating means higher filter efficiency, greater ability to remove submicron dust particles from the air, and reduced emissions
- **Surface-loading technology** with nano-size interfiber pores allow caked dust to easily pulse off of the surface layer and keep the media clean. This results in superior cleaning efficiency and savings in compressed air costs
- **Longer filter life** due to less pulse cleaning and filter stress means lower filter replacement costs
- **Lower initial pressure drop** over the life of the filter and less energy use

HIGH EFFICIENCY, LOWEST DELTAP IN GAS TURBINE APPLICATIONS

ProTura nanofiber and its performance benefits are available in Clark Filter’s Turbo Pulse GT™ pleated filters for gas turbine inlet housings.
**DUST COLLECTION - DUST CARTRIDGES AND BAGS**

**ProTura and ProPulse - Dust Cartridges and Bags**

**TWICE THE FILTRATION AREA INCREASES BAGHOUSE CAPACITY**

ProPulse™ pleated bag filters are the most advanced filters you can install in baghouse dust collectors. Featuring spun-bonded polyester medias with surface-loading characteristics, ProPulse filters boost efficiency, reduce emissions and lengthen filter service life compared to standard depth-loading felt media.

**ProPulse™**

More advantages of ProPulse pleated bag filters:
- **Double the filtration area increases capacity**
- **Lower initial and operating pressure drop**
- **Easier pulse cleaning cuts compressed-air costs**
- **Shorter filters reduce abrasion from inlet**
- **Compact size speeds removal and installation**
- **Top and bottom load options**
- **Molded urethane top construction**

**SUBMICRON PROTECTION AGAINST WELD FUME AND SMOKE**

Add Clark Filter innovation and the clean air efficiency of ProTura nanofiber technology to your Lincoln Electric Mobiflex 200-M and Mobiflex 400-MS weld fume extractors.

You can’t specify higher filter efficiency or more protection against submicron (0.3 to 0.7 microns) weld-fume particulate than ProTura nanofibers. ProTura filter cartridges clean air more thoroughly by removing even the smallest breathable particles, providing a safer, more productive environment for workers.

In addition, by not absorbing hydrocarbons inherent in weld fumes, ProTura filters last longer and reduce disposal costs.

**NEED REPLACEMENT CARTRIDGES FOR YOUR COLLECTORS?**

Clark Filter stocks a full line of dependable replacement cartridges for all major manufacturers of dust collection systems. If you need a custom cartridge for special applications or climatic conditions, we can design and manufacture the right filter for you. Call us today to learn more.
ProPulse™ pleated bags—the most advanced baghouse filter technology you can specify—feature:

- **2X the filtration area for increased capacity**—pleated media reduces air-to-cloth ratio, allowing a greater volume of air flow and more complete product pick-up
- **Surface-loading performance**—particulate pulses off the surface layer while the media remains clean. (Standard filter bags with polyester felt media allow dust to embed deep within the media substrate.)
- **Lower initial and operating pressure drop**
- **Easier pulse cleaning for lower compressed-air costs**—unlike depth-loading filters that require intensive cleaning and frequent replacement due to abrasion and mechanical fatigue
- **Shorter filters to reduce abrasion from inlet**
- **Compact size to speed removal and installation**—ProPulse filters require no cages or straps, so can be installed in minutes by one person
- **Top and bottom load options**
- **Molded urethane top construction**
- **Fits most standard tubesheet designs**

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*ProPulse pleated bag filters can be installed in a range of dust-collection applications*

<table>
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<tr>
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Applications:
TFS can assist you in choosing which style bag is best suited for your application once the following is known about your installation:
1. Characteristic of dust
2. Chemical content of dust
3. Humidity or moisture
4. Square feet of filter media
5. CFM required
6. Temperature range
7. Type of existing equipment and hardware
8. Operating experience

Features:
TFS offers a wide variety of medias, ranging from 8-22oz. per square yard, each having different characteristics and uses. To improve performance with regard to cake release, flammability, and resistance to chemical attack, most of our standard media can be supplied with various coatings and finishes.

Standard Dust Collector Filter Bags:
You can count on TFS to supply replacement filter bags and tubes necessary to keep your dust collection system operating at maximum efficiency. We guarantee that high quality manufacturing standards and expert workmanship are incorporated into each bag.

Media Coatings & Finishes:
Plain - Natural finish. General purpose material.
Glazed - Accomplished by running media over hot roller which melts fibers and results in a smooth "eggshell" finish. Improves dust cake release.
Acrylic Coated - Air permeable acrylic surface coated polyester for moist environments.
Flame Retardant - Not flame proof, but provides a self-extinguishing feature that is used when sparks are involved, such as grinding processes.
Teflon Membrane - Membrane provides an extremely smooth, high efficiency finish.
Fiberglass - High temperature, chemical resistant woven fabric.
**Dust Collection Application Information**

- **Filter Info**: Filter Part #: _______________, Filter Mfg: _______________, Qty of Filters: _______________, Filter Size: (ODxIDxOAL) _______________, Media Type: _______________, Sq Ft of Media: _______________, # of Pleats: _______________, Outer Support?: _______________, Inner Support?: _______________, Collector Mfg: _______________, ACFM: _______________, Dust Type: _______________, Pulse Type: _______________, Pulse PSI: _______________, Operating Temp?: _______________, Operating Time: (Hours per day) _______________, Safety Filters?: _______________, Collector Location: _______________, Recirculated Air: _______________.

- **Dust Info**: Particle Size: _______________, Characteristics: (Abrasive, Fume, Agglomerating _______________).
APPLICATIONS

This floor plan shows many UAS products used in a variety of industrial applications. All systems can be customized to meet your company’s individualized air quality needs.

1. VP—Portable cartridge dust collector ideal for applications where large pick-up hoods are impractical or where employees move around.
2. SCA—Ambient cartridge dust collector set up in a “race track” formation above the plant floor to allow workers unrestricted movement.
3. VCC—Self-contained media collector placed directly on or adjacent to a machining center.
4. BDC—Compact, continuous-duty dust collector that offers multiple high-filtration media options.
5. VF—Self-contained cartridge dust collector ideal for light-duty ducted operations.
6. MCB—Cross-ventilation cartridge dust collector allows workers complete freedom of movement. Often used with a containment booth.
7. SHN/MSH—Ducted, electrostatic mist collector for capturing smoke at the point of generation.
8. Pulse Control Panel—Differential pressure panel displays pressure levels and can be programmed for on-demand cleaning.
9. SFC with after-filter—Downward-flow cartridge dust collector.
10. DA/DB/DBM—Media (bag, HEPA) filtration unit captures fugitive and nuisance dusts. Also available with odor control modules/elements.
11. PSH—Central electrostatic mist collector system designed with modular construction for collection from multiple sources. Unit can be sized for large airflow volumes and with in-place cleaning features.

12. SFC—Downward-flow cartridge dust collector.

13. PCN—Portable electrostatic source capture mist collector ideal for eliminating welding smoke and other metal oxide fumes.

14. SCB—Ceiling-hung source capture dust collector with two extension arms.

15. VB—Downdraft bench offering an integrated collection area and work surface that draws away contaminants.

16. C—Cyclone dust collector with after-filter removes large-size contaminants or heavy dust loads. Can be used indoors or outdoors.

17. SG—Source capture, two-stage electrostatic precipitator with mobile in-place cleaning system.

18. PCT—Portable source capture system for collecting smoke, fumes and dust.

19. SHN—Electrostatic precipitator for use on individual machine tools.

20. F—Self-contained mist collector unit for ducted source capture.

21. SDC—Intermittent duty, self-contained shaker dust collector unit for ducted source capture.

22. WS—Wall-mount weld fume extractor captures sub-micron fumes from welding processes, while enabling the worker freedom of movement.

23. WP—Portable weld fume extractor captures and contains contaminants from multiple locations within a facility.