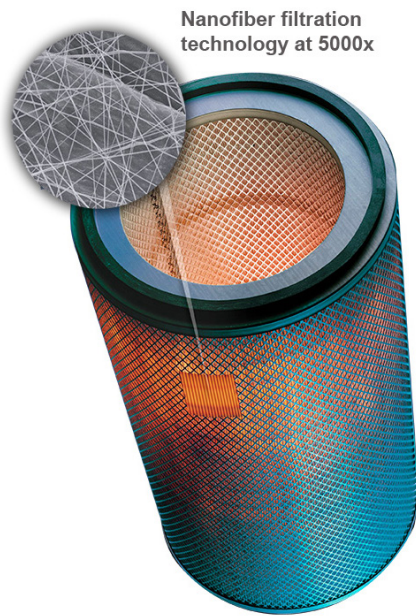


## ProTura® Outperforms Standard Cartridges



Nanofiber filtration technology at 5000x

We are at the forefront of technology and innovation; we develop and manufacture proprietary filter media technologies using our advanced research capabilities to ensure the latest developments are in our filters. ProTura, the most advanced nanofiber filtration technology is available in our pleated cartridge filter elements for use in most cartridge style dust collectors.

Available in a wide range of media blends and sizes, these superior filters effectively perform in the most rugged industrial environments and provide efficiency up to 99.999%. ProTura is independently certified at MERV 15\* and our cartridge filters last 50% longer than commodity filters, and are nearly 50% more efficient on submicron dust particles than MERV 13 filters.

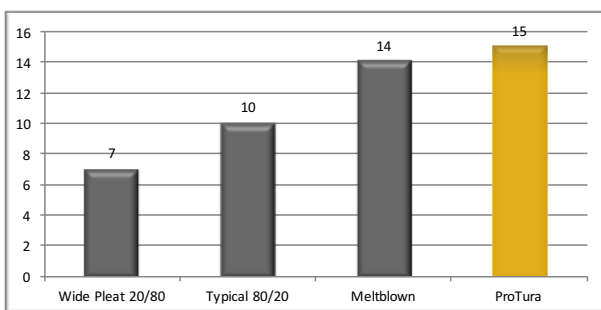
**ProTura advanced** nanofiber filtration technology is proven to achieve

- Higher efficiency and greater energy savings than any other standard cartridge filter media
- Cleaner air
- Longer filter life

## The Data Tells the Story.

### Higher Efficiency and More Energy Savings.

Surface loading is the key, ProTura advanced nanofiber filters feature a special surface treatment of synthetic fibers so extremely fine; they are measured in fractions of a micron (nanometers). This ultra-thin layer traps dust and fume particulate on the surface of the filter before it can embed deeper in the media — leading to better cleaning efficiency with fewer pulses and significantly less compressed air use.



### ASHRAE 52.2 MERV Rating

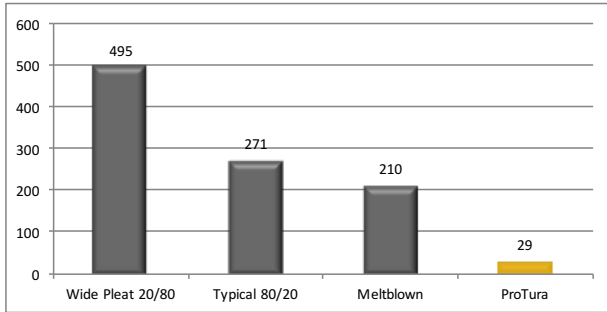
Independent lab tests show ProTura nanofiber technology is the only cartridge with a MERV 15 rating based on ASHRAE Test Standard 52.2. ProTura nanofiber technology is 50% more efficient on 0.3 - 1.0 micron particulate than the competition. Smaller diameter fibers equal a higher efficiency and lower resistance to airflow.

\* Minimum Efficiency Reporting Value (MERV) is based on ASHRAE Standard 52.2-1999, and has been deemed the most accurate scale for determining a filter's efficiency and ability to filter submicron dust particles. The MERV 15 efficiency has been tested per this standard by independent lab testing.

## ProTura® Outperforms Standard Cartridges

### Cleaner Air.

Our ProTura advanced nanofiber filters are more than 85% efficient in capturing sub-micron particles from a contaminated air stream. In contrast, conventional cartridge filters, or 80/20 cellulose filters (MERV 8-10), are not capable of capturing such small particles and often require the additional use of a costly HEPA filter to ensure a safe breathing environment.

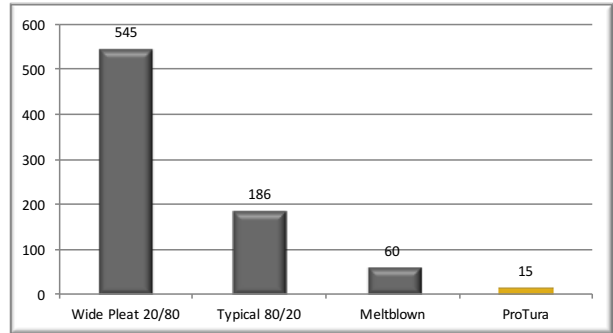


**Mass Emission Testing**  
 Additional full lab tests in an eight cartridge dust collector and atomite for test dust, ProTura nanofiber technology emitted 75 - 97% less contaminant than any standard media tested. The key is the nanofiber not the substrate. Superior submicron (0.3 - 1.0 microns) particle capture leads to lower emissions of contaminant.

### Longer Filter Life.

With less pulsing needed to clean surface-loading nanofiber cartridges, stress on the filters is minimized, resulting in double the filter life of a commodity filter and fewer changeouts or less downtime.

**Mass Emission Testing**  
 In full lab tests utilizing an eight cartridge dust collector, ProTura nanofiber technology stabilized at a much lower pressure drop than the competition's standard filter media, requiring less pulse cycles. Standard media pulsed 85 - 94% more often than ProTura. Less pulsing saves compressed air and reduces stress on the filter leading to a longer filter life.



### ProTura Cartridges are Available for Most Cartridge Collectors:

- |                  |                  |              |
|------------------|------------------|--------------|
| AAF®             | ITW/Gema         | Robovent®    |
| Airflow® Systems | MAC              | Sly          |
| Donaldson Torit® | Micro Air        | Steelcraft   |
| Farr APC         | Pneumafil        | Trion        |
| Flex-Kleen       | Uni-Wash/Polaris | Wheelabrator |

