



Quantum Series Pro

# Dust & Fume Collector For Thermal Cutting & Welding

## Quantum Series Pro®

# Designed specifically to meet the demands of the thermal cutting, metal processing and welding industries.

The Quantum Series® is a compact and powerful, fine dust and fume collector designed for the metal fabrication, thermal cutting and welding markets. The Quantum Series' integrated spark arrester and improved filter design allows this unit to provide the highest levels of efficiency and safety.

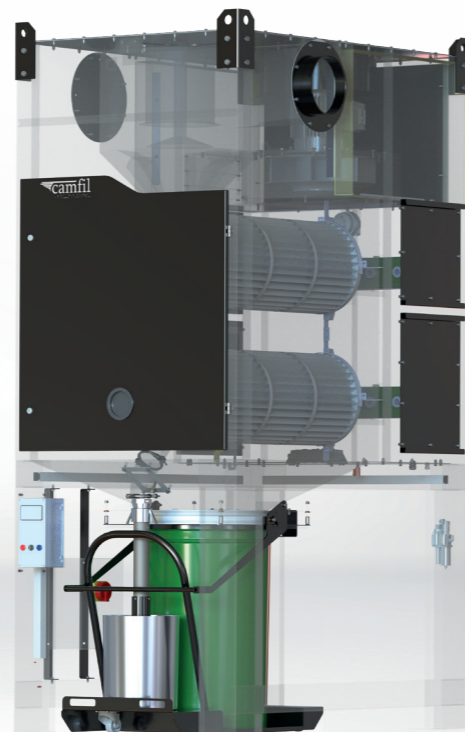
Designed to take up the minimum possible floor space, the Quantum Series can be located close to your processes in order to minimize ductwork and reduce fire hazards created by sparks.

Built with decades of proven filtration industry knowledge and expertise, the Camfil APC Quantum Series includes design features and high-end technology which has been tested and proven in our range of market-leading dust and fume collectors.

Incorporating Camfil APC's advanced filter design, the Quantum Series prevents the common filter failures suffered by some competitors in the market. A patent pending filter segmenting and volume displacement design improves pulse cleaning efficiency and reduces the chance for re-entrainment and clogging, while also reducing pulsing energy and noise. A strategically placed and fully integrated spark arrester allows for higher separation efficiency and smaller footprint.

### Key features to notice about the dust collector:

- Compact design
- Efficient spark separation
- Low emissions
- Dust bin of 200L
- Easy access
- Flexible options
- Plug & Play



## Applications

The Quantum Series Pro is an ideal solution for a range of applications. Integrated into different processes the Quantum Series ensures that whether you are Thermal cutting, Welding, Grinding, sanding, shotblasting, laser cutting, laser welding or plasma cutting your people and processes are protected from the fumes and dust generated.



Laser cutting



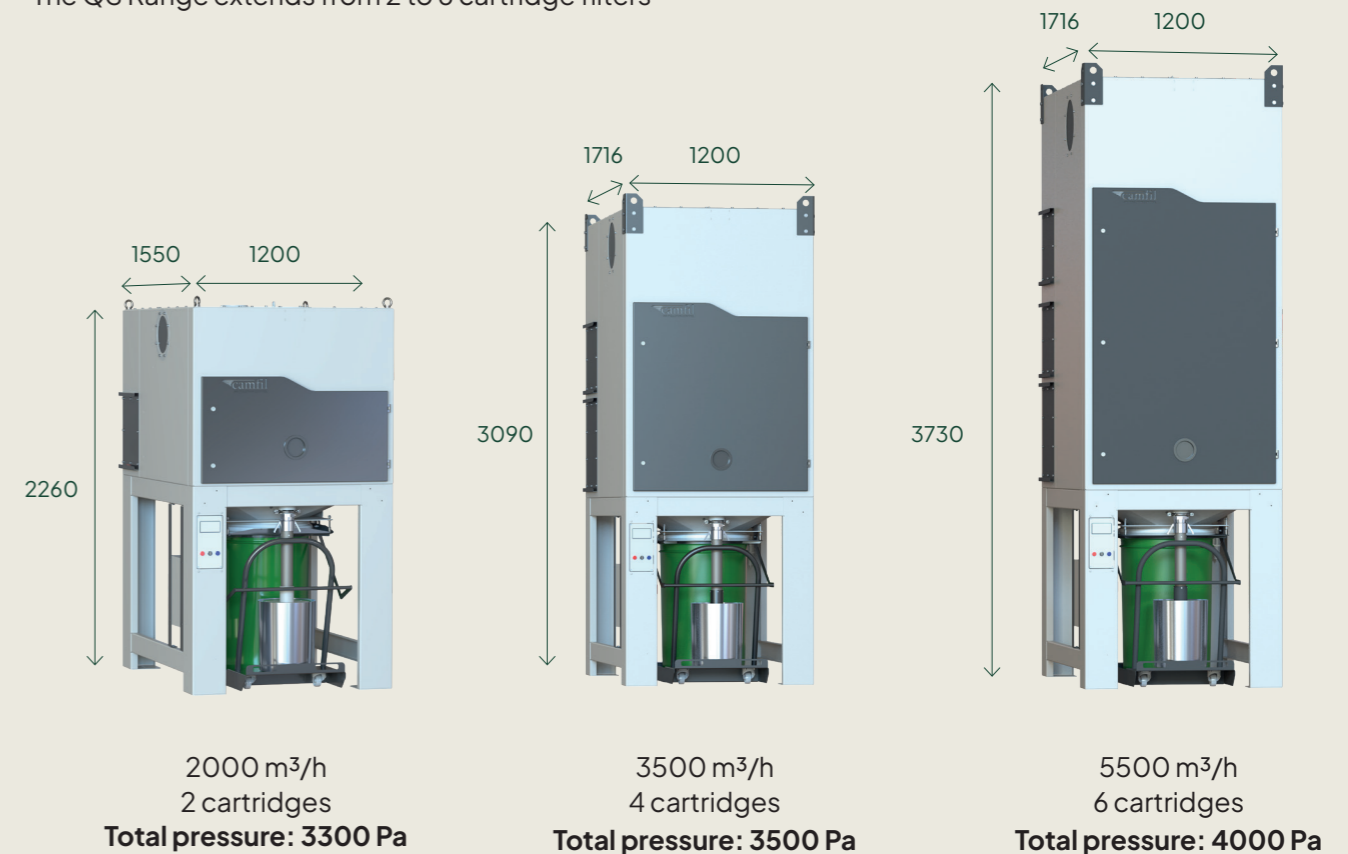
Laser welding



Plasma cutting

## Quantum Series range

The QS Range extends from 2 to 6 cartridge filters



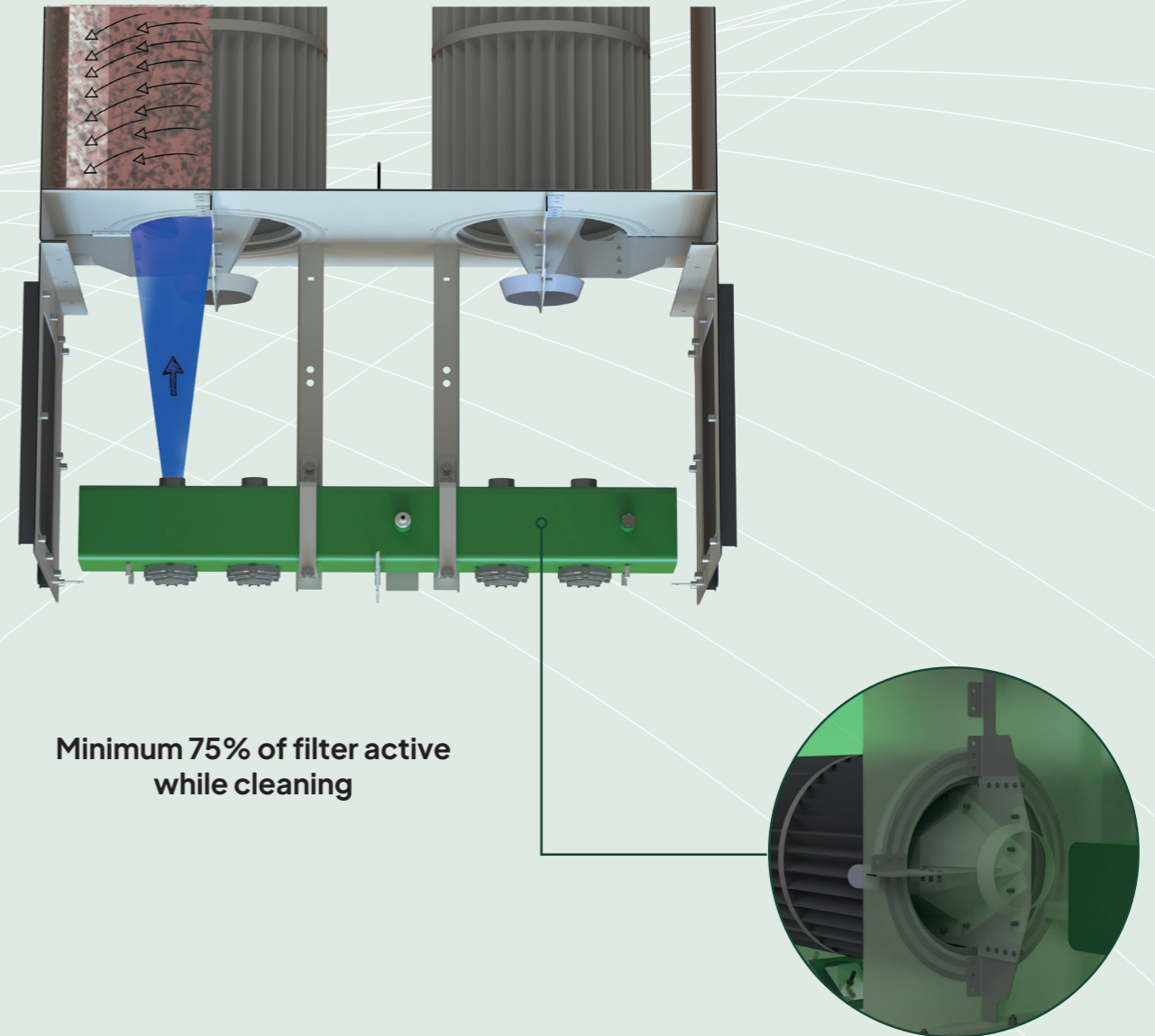
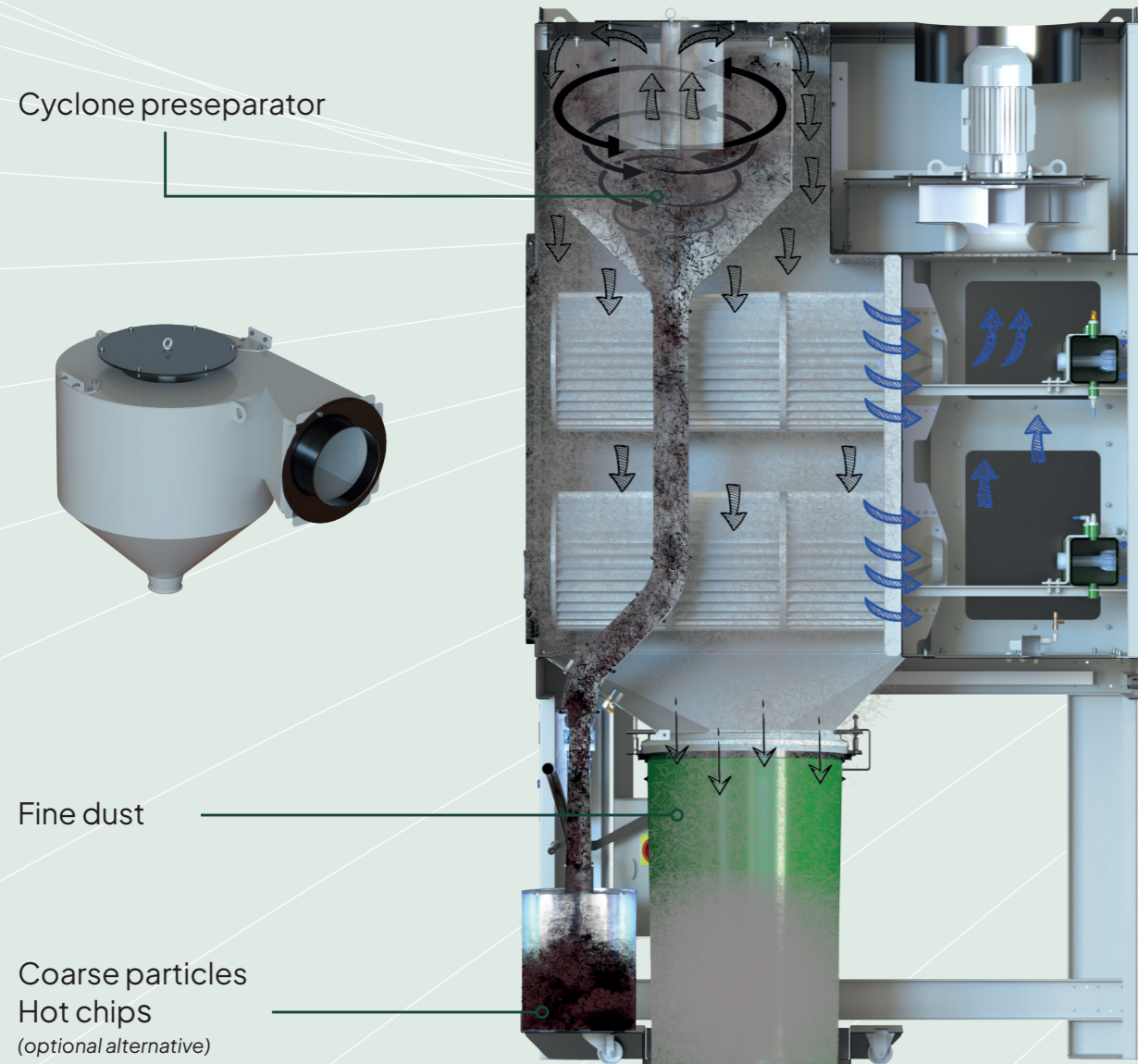
# Quantum Series Pro<sup>®</sup> Benefits

## Gamechanging preseparator

- Integrated in main housing
- Protects filter cartridge
- Separates coarse material
- Reduces fire hazard

## Efficient dual Pulse and online cleaning

- Displacement body for efficient cleaning
- Online cleaning
- Cleaning pressure ~ 5bar
- Increased filter life



## Mobile Bin Trolley – Designed for easy, safe, and efficient maintenance

The Mobile Bin Trolley is engineered to make routine maintenance faster, safer, and far more convenient. Its optional easy-access mobile platform ensures operators can reach, remove, and replace bins with minimal effort, an essential advantage since the bins are frequently emptied.

### Easy-Access Mobile Platform is available into two versions:

- Most compact Bin in Bin Reuseable separator
- Dual bin system with separate 30L One way coarse material container

In both cases Fine dust is collected in a generous 200 Litre container, reducing emptying frequency and ensuring smoother, more efficient operation. And in both cases we have Coarse, hot particles and larger debris segregated to prevent the potential ignition of fine, flammable dust.



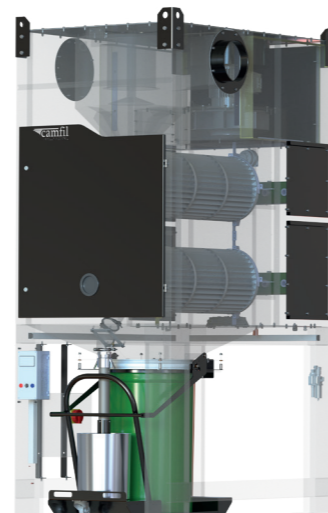
## High efficiency cyclone

Many metalworking processes, such as thermal cutting, generate high-energy sparks that can lead to performance issues, damage to collectors and filter media, and even fire hazards.

Traditional dust collectors often require external spark arrestors, adding cost and consuming valuable floor space. The Quantum Series® is engineered to eliminate these challenges. Its integrated high-efficiency cyclone provides built-in spark mitigation, ensuring superior safety, a more compact footprint, and long-term reliability.

### Quantum Series®:

- Smart Design
- Safe Operation
- Proven Performance



## HEPA filtration

A final-stage HEPA filter ensures that the separation efficiency is very high and the air being released is very clean. This is especially critical for indoor installations, where recirculated air must meet strict safety and air-quality standards.

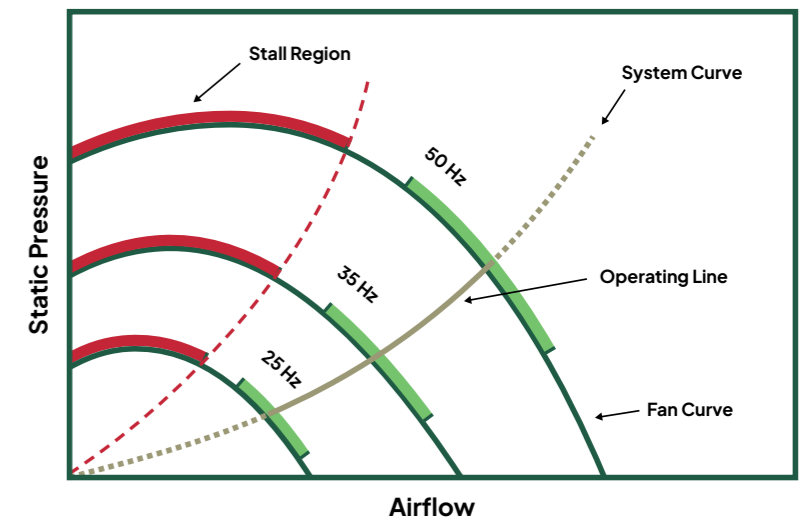
HEPA filtration provides also an extra layer of protection in case of leakages due to wear of first stage filtration helping safeguard employees' health, maintain cleaner workspaces, and ensure compliance with occupational safety guideline.

## Variable Speed Drive

Using a Variable Speed Drive (VSD) to control a dust collector is one of the most effective ways to optimize energy consumption. A dust collector does not always need to run at full airflow: working conditions and filter loading all vary throughout the lifetime. With a VSD, the fan speed automatically adjusts to the actual airflow required.

Because fan power consumption increases exponentially with speed, even a small reduction in RPM delivers significant energy savings. A VSD also maintains a constant pressure in the system, ensuring optimal capture performance. In addition to energy efficiency, smoother fan operation reduces mechanical stress, extends filter life, and lowers noise levels. Overall, VSD control transforms the dust collector into a smarter, more efficient system that reduces operating costs while maintaining high air-quality performance.

### Variable Speed Fan and Fixed System



## Other Options

- Fire detection
- Level sensor
- Fire suppression system
- Custom Colour
- Outdoor installation

## **Camfil – a global leader in air filters and clean air solutions.**

For more than half a century, Camfil has been helping people breathe cleaner air. As a leading manufacturer of premium clean air solutions, we provide commercial and industrial systems for air filtration and air pollution control that improve worker and equipment productivity, minimise energy use, and benefit human health and the environment.

**To discover how Camfil can help you to protect people,  
processes and the environment, visit us at [camfil.com](https://www.camfil.com)**