



Alfa Laval MultiScrubber PM

Reducing particulate matter emissions



Reduce particulate matter emissions

Particulate matter (PM) is a complex mixture of solid particles and liquid droplets that pollute the air and reduce visibility at elevated levels. Regulations limiting PM emissions protect people against serious health problems that may result from inhaling these particles as well as protect the environment against damage. Industries are also moving towards more sustainable production with initiatives to reduce PM and other emissions.

Standard MultiScrubber PM with optional modules for SOx and visible plume reduction



PM emission reduction
Well within air quality limits



SOx reduction
Meets the most stringent limits



Plume reduction or removal
Reduced visible plume

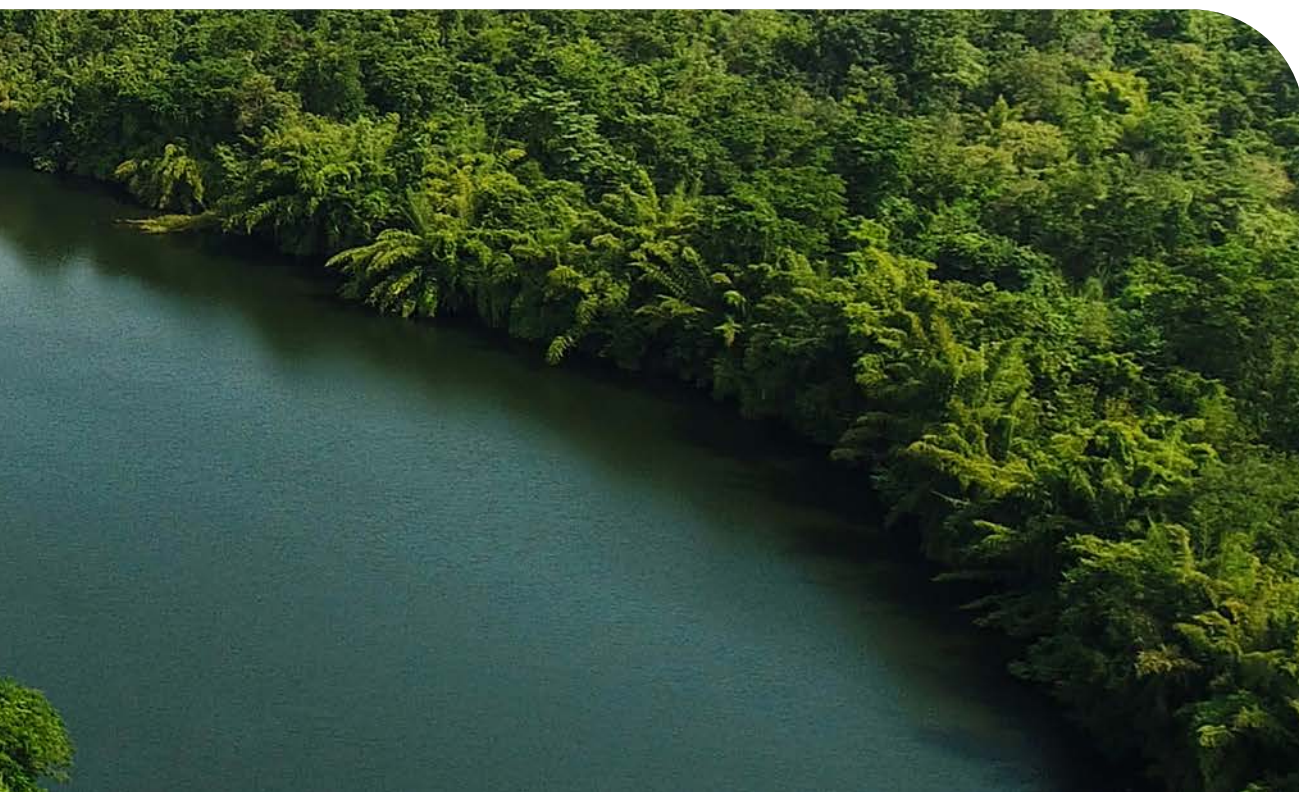


Simple, economical way to reduce PM emissions

Emissions reduction technologies – from electrostatic precipitators and bag filters to vortex tube separators and wet scrubbers – can reduce PM emissions. But none are as effective and economical as the Alfa Laval MultiScrubber PM. A complete solution for PM emissions compliance, the compact, easy-to-install MultiScrubber PM effectively reduces particulate matter with minimal effluent. This enables plants to comply with emissions regulations whilst maintaining profitability.

Total peace of mind

Alfa Laval MultiScrubber PM is a future-proof, three-in-one scrubber. Compact and modular, the standard model reduces particulate matter emissions efficiently. It is also possible to upgrade the scrubber to reduce emissions of sulphur oxides (SOx) and/or visible plume, providing a low-cost migration path to more functionality. Choose what you need today – and be ready to upgrade tomorrow.





PM emission regulations compliance

More sustainable production ensures protection of people and environment alongside profitability. With the Alfa Laval MultiScrubber PM, industrial plant owners and operators can reduce particulate matter emissions to acceptable levels, reliably and cost-effectively. Easy to operate and maintain, the MultiScrubber PM reduces PM emissions within air quality limits.

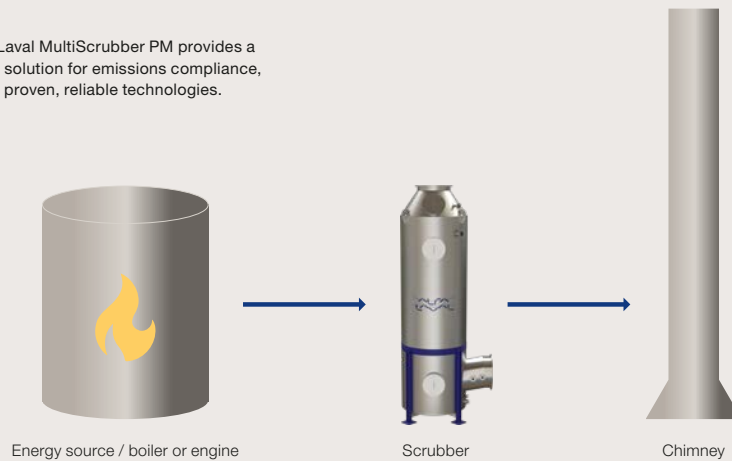
More economical

- Relatively low capital cost
- Up to two times more economical than other technologies
- Low power consumption
- Minimal water consumption and effluent
- Highly efficient in reducing PM

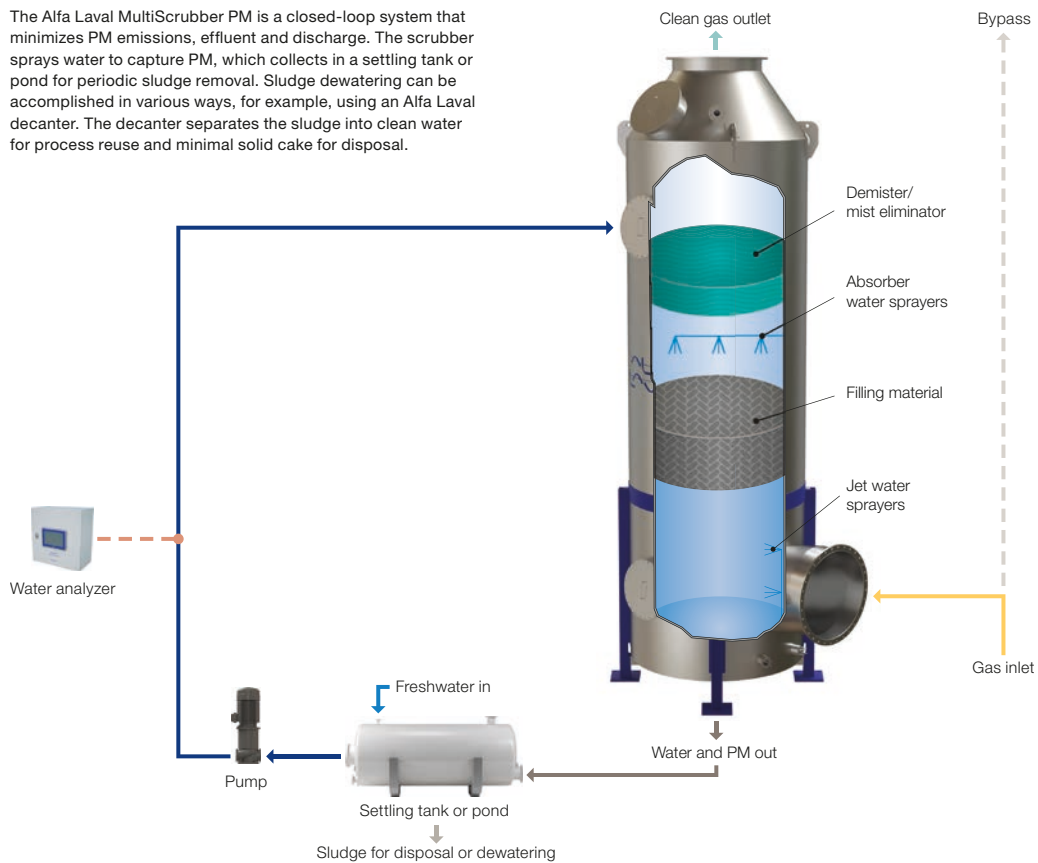
Simple to install

- Standardized, ready-to-install components for quick, easy installation
- User-friendly installation manual and design guide
- Up to four times smaller in size than other PM emissions reduction technologies

The Alfa Laval MultiScrubber PM provides a complete solution for emissions compliance, based on proven, reliable technologies.



The Alfa Laval MultiScrubber PM is a closed-loop system that minimizes PM emissions, effluent and discharge. The scrubber sprays water to capture PM, which collects in a settling tank or pond for periodic sludge removal. Sludge dewatering can be accomplished in various ways, for example, using an Alfa Laval decanter. The decanter separates the sludge into clean water for process reuse and minimal solid cake for disposal.



Easy to operate and maintain

- Very stable process
- Corrosion-resistant system
- Easy-to-understand operation

Proven technology

- Based on reliable Alfa Laval wet scrubber technology
- In use since 1967
- More than 500 installations worldwide
- Particle removal efficiency not affected by fluctuating gas load

Desulphurization expertise



Why Alfa Laval?

Global expertise

- World leader in separation, heat transfer and fluid handling
- Trustworthy, financially stable partner, established 1883 in Sweden
- Global scrubber development centre in the Netherlands
- R&D in Aalborg, Denmark

Quality production

- Manufactured at Alfa Laval's scrubber production facility
- Onsite laboratory examines steel for quality and corrosion resistance
- Inhouse welding school ensures high-quality welds
- Customers are welcome to attend Factory Acceptance Tests (FATs)
- Short lead times
- Well-established supply chain

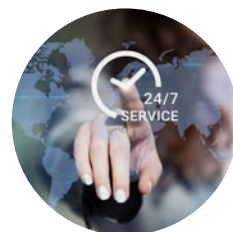


Commitment to innovation and sustainability

- Focus on sustainability
- Currently holds more than 3,700 patents
- Invests about 3 percent of its sales in research and development
- Launches about 40 new products every year

Local presence

- Alfa Laval was established in 1883
- 35 major production units
- More than 100 service centres
- Sales companies in 55 countries
- Sales representation in another 45 countries
- We speak your language
- We're there when you need us – and even when you don't





This is Alfa Laval

Alfa Laval is active in the areas of Energy, Marine, and Food & Water, offering its expertise, products, and service to a wide range of industries in some 100 countries. The company is committed to optimizing processes, creating responsible growth, and driving progress – always going the extra mile to support customers in achieving their business goals and sustainability targets.

Alfa Laval's innovative technologies are dedicated to purifying, refining, and reusing materials, promoting more responsible use of natural resources. They contribute to improved energy efficiency and heat recovery, better water treatment, and reduced emissions. Thereby, Alfa Laval is not only accelerating success for its customers, but also for people and the planet. Making the world better, every day. It's all about *Advancing better™*.

How to contact Alfa Laval

Contact details for all countries are continually updated on our web site. Please visit www.alfalaval.com to access the information.

