

Media Release Ammann Group

AMMANN BLUE SMOKE TREATMENT IS AN AFFORDABLE, PRACTICAL, SUSTAINABLE SOLUTION

LANGENTHAL, Switzerland – Ammann has released a blue smoke capture system that dramatically reduces the emissions that result while loading asphalt mix to trucks.

Ammann Blue Smoke Treatment (BST) is a cost-effective solution that doesn't require expensive confinement equipment – and it's inexpensive to operate, too.

- ❑ BST captures fumes that previously would have escaped during loading and redirects them to a multi-stage filtration system.
- ❑ The great idea behind this Ammann patented solution is the “indirect aspiration” of the Blue Smoke that uses the thermic force of the gases to reduce the energy absorption, the power installed and the volume flow.
- ❑ The filters remove the oily particles during multiple stages, ensuring high efficiency.
- ❑ After filtering, the system reroutes the remaining gases to the combustion chamber, lowering costs as the captured air is already heated.
- ❑ The condensed oil that accumulates in the filtration system can be recycled.
- ❑ BST enables a steady flow rate at the chimney without increasing the plant gas flow at the chimney. No new emission authorizations are necessary.
- ❑ This innovative technology is already in use at several Ammann plants. BST can be specified during the purchase of a new plant or added as a retrofit. It is compatible with all asphalt plants on the market, regardless of the manufacturer.

“Newer, stricter regulations are requiring that steps be taken to mitigate these fumes, so the availability of BST is well-timed,” said Stampfli Philipp (AMMANN Global Head of Process Technology). “In addition to sustainable benefits, we expect it simplify the process for obtaining permits and improve relations with neighbors. It’s important to remember that BST removes fumes that are visible. The air won’t just be cleaner. It will look cleaner and smell cleaner.”

A Real Solution

Blue smoke emissions have been around since the advent of asphalt-mixing plants. The smoke released during loading resulted from the extremely high temperatures required in the production process.

Because high temperatures were a necessity, little could be done to stop the smoke – until now.

As stated, BST can be installed on plants manufactured by Ammann or its competitors. A plant owner does not need to purchase a new plant to benefit from this technology. Adding BST to an existing plant allows the owner to continue using the plant while meeting tightening emissions standards.

Key Selling Points of BST

- ☐ Greatly reduces blue smoke that results during loading
- ☐ No plant capacity reduction.
- ☐ No increasing of the gas flow at the chimney
- ☒ No new emission authorization are necessary.
- ☐ Is a cost-effective solution; no expensive confinement systems are needed
- ☐ Reduces costs by re-using air that has already been heated
- ☐ Can be retrofitted on virtually all existing plants, regardless of manufacturer
- ☐ Helps existing plants meet tightening emissions standards
- ☐ Can facilitate the process of gaining permits for new plants
- ☐ Pleases stakeholders including plant owners, operators, truck drivers and neighbors
- ☐ Helps the asphalt plant owner market themselves as a green business
- ☐ Enables recycling of the trapped oil – another green benefit
- ☐ Is easy to service by simply cleaning the filters
- ☐ Features a filtration system that is laser welded and hydraulically sealed to prevent leaking

Green Plant Initiative

BST is a key component of the “Green Plant Initiative,” Ammann’s commitment to improving the sustainability of asphalt production.

The initiative includes three new advanced technologies: the H2 burner, VOC Reduction Device (VRD) and Blue Smoke Treatment (BST). Together, the three reduce or eliminate emissions at every stage of asphalt production.

The H2 burner eliminates CO₂ emissions during the combustion that occurs at the start of the process. Till the H2 will be available in big quantity the gap can be closed by using alternative fuels (E.fuels, Tal Oil, Wood dust,) with a neutral CO₂ balance. VRD filters emissions in later steps, including 70% of the VOCs that can develop while recycling asphalt. At the end, BST captures the blue smoke that can arise during truck loading.

“Each of these three is a breakthrough technology and big win on the green front,” said Stampfli Philipp (AMMANN Global Head of Process Technology) “When combined, they are setting the bar for sustainable asphalt production in the industry for the next generation.”



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About Ammann

Ammann is a sixth generation, family-owned business that produces asphalt and concrete mixing plants, compactors and asphalt pavers at nine production sites in Europe, China, India and Brazil. Its core expertise is roadbuilding and transportation infrastructure. Visit ammann.com for company-related information.