CORSAIR VALVE SERVICES

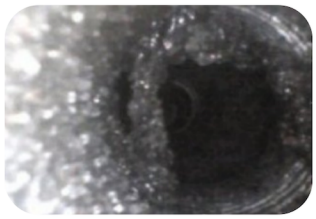
Struvite Removal

What is Struvite?

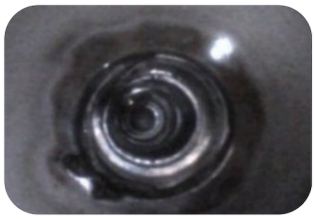
Sturvite, a compound of ammonium and magnesium phosphate, presents a continual obstacle for Anaerobic Digestion (AD) Plants and Wastewater Treatment facilities. It leads to frequent pipe blockages, operational inefficiencies, prolonged downtime, and financial burdens.

Circulation Method

1. **Prepare the Struvite Remover Mixture**: Measure out the appropriate amount of struvite remover according to the manufacturer's instructions. Dilute it with water as recommended, ensuring thorough mixing for even distribution.
2. **Circulate the Mixture Through Pipework**: Connect the circulating pump to the affected pipework system. Start the pump to initiate circulation, adjusting flow rates as needed to ensure the mixture reaches all areas with struvite build-up.
3. **Allow Circulation for 2 Hours:** Maintain circulation for at least two hours, monitoring progress periodically. After this time, stop the pump and let the mixture settle. Flush the system thoroughly with clean water to remove any remaining residue.

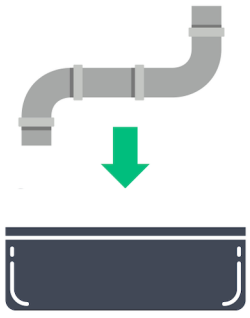


Before Treatment
Struvite Build-up in pipework



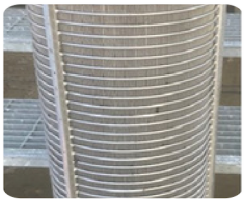
After Treatment
2 Hour Circulation method

Soak Method



1. **Prepare the Mixture**: In a suitable container, mix the appropriate amount of struvite remover with water according to the manufacturer's instructions. Ensure the mixture is well-dissolved and evenly distributed.
2. **Submerge Pipework**: Carefully place the pipework into the bath of the struvite remover mixture, ensuring that it is fully submerged. Arrange the pipework in a way that allows the solution to reach all areas affected by struvite build-up.
3. **Soak for 4 Hours**: Leave the pipework to soak in the struvite remover mixture for a minimum of 4 hours. During this time, periodically check the condition of the pipework to ensure it remains submerged and monitor the progress of the struvite removal process. Once the 4 hour soak is complete flush the pipework thoroughly with clean water to remove any remaining residue.

Before Treatment
Heavy Struvite Build-up



After Treatment
4 Hour Soak Method

Key Benefits

01 Cost-effective

Traditional methods often involve the use of harsh chemicals like HCland formic acid, and manual rodding and hosing methods which pose a risk to infrastructure integrity. Struvite Remover preserves infrastructure integrity and minimises plant downtime, leading to increased operational efficiency and cost savings.

02 Safe to use

Struvite Remover requires less manual intervention than current methods, reducing the risk of accidents and injuries, and making it a safer option for workers

03 Environmentally Friendly

By allowing waste from the removal process to be reintroduced into the AD plant, Struvite Remover creates a circular process, allowing the waste stream to be transformed into a feedstock rather than disposed of as hazardous waste.

04 Sustainable Solution

Struvite Remover supports sustainability and aligns with the commitment to environmentally friendly waste and wastewater treatment practices. ABS'S Struvite Remover has been made using only compounds produced by microbial fermentation which has been classified as Generally Regarded as Safe (GRAS), following years of research and development.

+44 (0)1772 301 213
www.corsairvalveservices.co.uk
info@cvs-uk.com