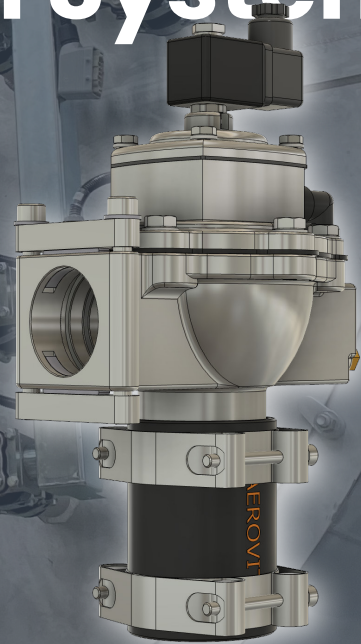


# Aerovit ShockClean System

## Cleaning with shock waves

*The Aerovit ShockClean system is designed for keeping boilers clean during operation.*



The Aerovit ShockClean System is a highly efficient cleaning system designed to maintain high boiler performance by removing soot and ash deposits.

The well-proven cleaning solution ensures uninterrupted boiler operation and reduces the need for manual cleaning.

Using pure compressed air, the Aerovit ShockClean System delivers powerful, timer-controlled shock waves, that clean key components like biomass boilers, economizers, heat exchangers, marine boilers, catalyst elements, and thermal oil coil boilers.

In just fractions of a second, 450 liters of high-compressed air is released through the Aerovit valve, effectively dislodging sediments and ensuring consistent cleanliness throughout the boiler system.

Unlike traditional cleaning methods, this system operates continuously during normal boiler operation, minimizing downtime and improving overall efficiency.

### Features:

- **Payback time in 3-24 month**  
High return on investment through energy savings and reduced maintenance.
- **Proven higher efficiency and boiler output**  
Enhances heat transfer and boosts boiler performance.
- **Reduce manual cleaning and boiler shutdowns**  
Reduces downtime with automated, continuous cleaning.
- **Reduce fuel consumption per produced MW**  
Optimizes use of fuel for energy production.
- **Reducing CO<sub>2</sub> emission**  
Supports sustainability by lowering fuel consumption.
- **Robust design with few moving parts**  
Durable and low-maintenance for long-term use.

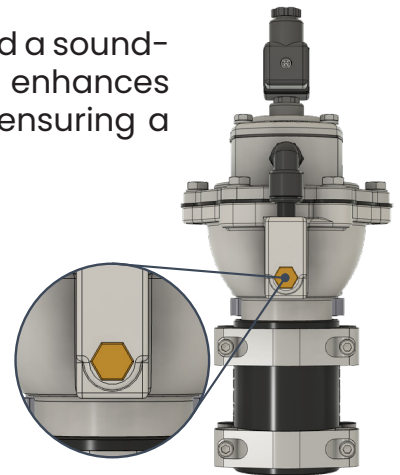


### Aerovit A40 Valve

The unique Aerovit A40 valve unit integrates a cooling system and a sound-silencer, making it more compact and resilient. This innovation enhances durability and increases reliability during operation, while still ensuring a low sound level.

The Aerovit ShockClean System is highly adaptable, with no limits to its size or scope. The number of blast valves, the supply of compressed air, and the timer controller can be customized to meet specific operational requirements.

The Aerovit ShockClean System is a versatile solution, that seamlessly integrates with both new and existing biomass boilers, catalysts, heat exchangers, and economizers.



Aerovit valve

Each system is customized to meet the specific needs and requirements of the customer. Ensuring optimal performance and reliability.

### Problems caused by soot buildup

Soot accumulation reduces heat transfer, increases fuel consumption, and can cause uneven heat distribution in the boiler.

Over time, this leads to decreased efficiency, higher operating costs, and a greater risk of unplanned shutdowns for manual cleaning or repairs.



soot accumulation in a biomass boiler

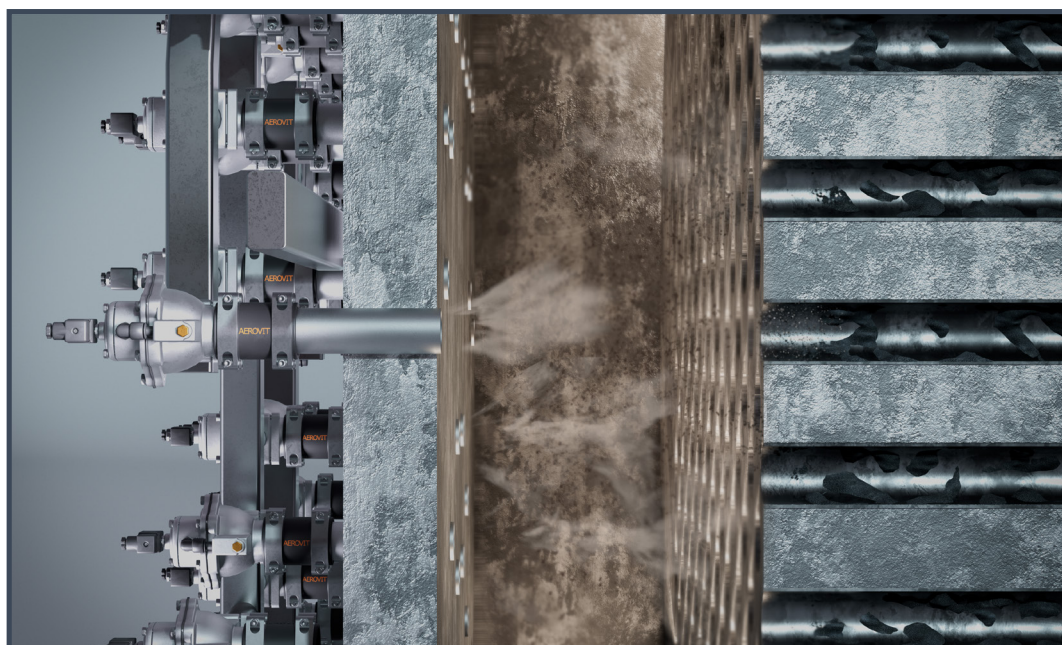


## How does the Aerovit ShockClean System work?

The Aerovit ShockClean System utilizes powerful shock waves of high-compressed air to effectively clean the convection part.

In a fraction of a second, 450 liters of compressed air is released through the Aerovit valve, generating a powerful shock wave blast, that removes soot and ash deposits.

This continuous, automated cleaning process prevents buildup in boiler tubes and compartments, maintaining peak efficiency without requiring shutdowns. The system operates continuously at high temperatures, allowing for uninterrupted boiler performance while maintaining cleanliness and efficiency.



In the image it is illustrated how the Aerovit ShockClean System is delivering a powerful shockwave blast to remove soot and ash deposits.

Specifications:	
Cleaning Media:	Air
Voltage:	24VDC (alt.24VAC, 115V, 230V)
Ambient temperature:	-40°C/50°C
Recommended working pressure:	8 bar
Sound power level:	<80 dBA
Compliance:	ATEX compliant (Option)
Weight:	3,0 kg. (per valve)
Dimensions:	23 x 18 x 14 cm
Timer controller power input:	230V or 115V (Option 24AC or 24DC)
Location/installation:	Depending on application



Scan or click the QR code to watch a short video about Aerovit ShockClean System.