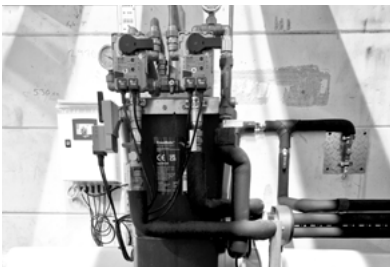


# Plasman AB | Simrishamn, Sweden

When the plastics manufacturer Plasman in Simrishamn struggled with recurring issues in the cooling water system, production was at risk of coming to a halt. With the installation of EnwaMatic®, they gained a chemical-free solution that stabilized water quality and ensured more reliable operations.



**80% less maintenance –  
with production stoppages  
virtually gone.**



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## About Plasman AB

Plasman AB is a leading manufacturer of plastic components in Simrishamn with around 350 employees, making it the municipality's second-largest employer. The company produces plastic parts for the automotive industry and collaborates with major players such as Volvo and BMW. They also supply components for Nibe's heat pumps and has Scania as a key customer. The production process requires high precision and reliable operation – especially in the cooling systems, where water quality is crucial.

## From costly operational disruptions to stable production

### Critical Cooling Challenges

For Plasman, precise cooling water is essential in the molding process, where temperatures must stay within narrow limits. Their 30 m<sup>3</sup> closed system suffered from rust flakes, particles, and low pH, which clogged filters, strainers, and valves. Chemical treatments worsened the situation, damaging hoses, seals, and O-rings, leading to frequent downtime, emergency call-outs, and high costs.

### EnwaMatic® – A Sustainable Solution

Enwa installed an EnwaMatic system, a chemical-free solution that continuously filters particles and automatically balances pH. This significantly extends the life of hoses, seals, and O-rings, while drastically reducing maintenance. Tasks that once required cleaning filters multiple times per day now take minimal effort, saving both time and resources.



## Plasman – Simrishamn, Sweden

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### Improved Control and Reliability

To further enhance operational safety, the system was integrated with Modbus communication, allowing real-time monitoring and automatic alarms if pumps stop or backwashing fails. This ensures the cooling system remains stable, avoiding unplanned production stoppages that could cost up to SEK 80,000 per minute.

### Results and Benefits

After just over a year, Plasman enjoys stable water quality, higher production reliability, and sharply reduced maintenance costs. The investment quickly paid off, both by preventing costly downtime and by improving overall production efficiency.

#### CHALLENGES

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- Frequent particle issues in cooling water, causing clogged filters and costly downtime
- Failed chemical treatments that damaged components and increased expenses
- High risk of production stoppages with severe cost per minute

#### SOLUTIONS

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- Installation of EnwaMatic® – a chemical-free water treatment system
- Continuous particle removal and automatic pH stabilization
- Integration with the central control system for real-time monitoring

#### INTERESTING PARTS OF THE DELIVERY

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- Maintenance reduced by over 80%
- No need for chemicals – environmentally friendly and cost-effective
- Cooling-water related stoppages virtually eliminated
- Greater security in production thanks to improved monitoring
- Significant savings in both time and money