Efficient cleaning of polluted circuits – Reduction of cooling time
The **moldclean** series was designed to clean scaled cooling channels of injection moulds and heat exchanger systems. The ph-value control and the flow rate measurement indicate the progress of the cleaning process.

**Regular maintenance sustains long-lasting productivity**

Minerals that are dissolved in the circulation water separate and solidify on heat conducting surfaces, obstruct heat transmission, create hot spots and prolong cycle times. Oxygen and carbonic acid are released and lead to corrosion, which, in turn, causes further downtimes. Additional maintenance, unstable processes and downtimes incur major costs, which can only be prevented if the surfaces are kept clean.

Depending upon the grade of contamination the cleaning of the cooling channels results in a cooling time reduction of up to 40 % and even more.

As a system supplier, **gwk** has been offering cleaning of components that have conducted water for a long time. The latest development, easy to use by the processor himself, is **moldclean**, a compact appliance which cleans polluted cooling channels in injection moulds and heat exchanger systems.

**Maintenance support**

The state-of-the-art cleaning units of the **moldclean** series can be very effective as they carry out the cleaning process virtually automatically and reduce the employees’ workload. The expenses for the regular cleaning are relatively low in comparison to the regained productivity and the obtained process reliability.

**System cleaning**

Polluted cooling channels increase the temperature of the mould wall and thus reduce the quality of the moulded part while at the same time cooling time is increased. The loss of production in the presented example was 1,600 machine hours per year. This amounted to 48,000 EUR. Cleaning costs were amortized after a few days.
Increase productivity by cleaning and protection of temperature control channels.

### gwk moldclean mc 8
The innovative solution to clean up to 8 temperature control circuits simultaneously.

- = Standard / o = Option / – = not available

<table>
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<tr>
<th>Technical data</th>
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<td><strong>Medium</strong></td>
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<td>Neutralization agent</td>
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<td>Max. circulating temperature</td>
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<td>Dimensions (W x L x H)</td>
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### Standard specification

- Stainless steel pump
- ph-value indication
- Flow rate measurement
- Manual flow reversal
- Automatic switch-over between the cleaning cycles
- Integrated heating to accelerate the processes
- Dirt separator
- Common stainless steel tanks or cleaning and neutralisation solution
- Separate stainless steel tanks for cleaning and neutralisation solution
- Integrated stainless steel collecting pan incl. draining
- Splash-proofed electrics
- Connection for compressed air exhaust
- Jet cleaning with compressed air
- Stainless steel fittings
- Temperature indication
- Level control

Subject to technical modification without notice!
Increased productivity
In many areas of the industry, cooling and temperature control provides a great potential for increasing productivity and thus for lowering costs.

Many factors serve to improve productivity:
- Reduction of cooling time, therefore savings in required machine hours
- Improvement of product quality
- Increasing availability of production plants
- Decreasing running cost
- Reduction of maintenance cost

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