Cleaning optimization OptiCIP©:
Reduce cleaning time and production costs

Cleaning in Place (CIP) is one of the most frequently used, but also one of the most overlooked unit-operations within the food industry. Do you want to determine whether your cleaning processes can be improved?

NIZO food research assists you in increasing food safety and sustainability, while reducing product losses, water and energy use and cleaning times.

Team up with NIZO and our experts will bring your CIP-system up to the next level together with you!

Optimize your Cleaning in Place (CIP). Aim at minimum cleaning time and lowest cost.
• Reductions in cleaning time of up to 30%.

The NIZO approach/ OptiCIP©:
• Audit the current situation of your CIP-system
  Assessment of your CIP-system, including processing conditions and removal of fouling
• Estimate the potential for improvement
  Go / No go decision based on NIZO’s proven knowledge and experience
• Optimize the cleaning procedure together with your experts based on the 5T-approach
  Time, Temperature, Titer, Turbulence and Turbidity
• Implementation & evaluation

Figure 1: Example before and after optimization: the peaks are higher and narrower, meaning that alkaline and acid cleaning is done more effectively and in a shorter time span resulting in substantial cost and time savings.

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Monitoring the CIP-parameters

The monitoring can be done either off-line or on-line.

**Off-line measurements**

Data is collected from your system and samples are taken manually. This procedure is normally applied for stand-alone systems.

**On-line and Continuous monitoring – NIZO/Schneider approach**

Continuous monitoring of the cleaning cycles can also be executed automatically. NIZO is partnering with Schneider Electric, who have developed a tool that will be connected with the process automation system of your production facility. This tool measures and automatically displays the key parameters. The tool enables you to determine whether your CIP-protocols are carried out according to your own defined CIP-settings.

*Continuous monitoring of 5T’s:*
- Temperature
- Time
- Turbulence
- Titer
- Turbidity

*Result:*
- Continuous tracking and tracing
- Optimization

*Together we deliver traceability and facilitate optimization of your CIP.*