



Alfa Laval

Cleaning-In-Place (CIP)

for gasketed plate heat exchangers

Proactive CIP to elevate energy efficiency

Cleaning-in-place (CIP) is a forward-thinking approach to maintaining heat exchanger performance. This cost-effective solution proactively removes fouling before it causes a noticeable decline, swiftly restoring your unit's performance. A CIP is done without disassembling the heat exchanger, thus reducing wear and tear on gaskets and promoting longevity and reliability. Additionally, by doing CIP proactively, you reduce the need for frequent servicing and improve service intervals.

If you prefer a do-it-yourself approach, we offer a comprehensive range of CIP units and top-performing chemicals, proven through rigorous testing. Integrating a CIP routine with performance assessments into a service agreement ensures consistent, reliable heat exchanger performance.

Our services help you with:

- Removing fouling swiftly with the right chemicals
- Restored performance without opening the unit
- Extended unit lifespan with fewer openings
- Reduced energy consumption through restored performance

How it works

We bring leading expertise in chemical and material science to deliver optimal cleaning results without harming your equipment. Our specialists assess the type of fouling and recommend appropriate chemicals, duration, and temperature for the CIP process.

With extensive knowledge of all major brands and industry applications, we provide services for a wide range of heat exchanger units, making us your one-stop shop for comprehensive service solutions.

Transportation and setup:

- Delivery of the CIP unit and chemicals to your site
- Conducting a thorough risk assessment and safety preparations

Professional execution:

- Connect the CIP unit to the heat exchanger
- Initial testing of connections by circulating water through the system to ensure secure fittings

Optimized cleaning:

- Addition of recommended chemicals, circulating them through the heat exchanger at specified temperatures and durations tailored to the type of fouling
- Removal of chemicals and residues by flushing the system with water

Completion:

- Draining the system
- Handover of the cleaned heat exchanger to you

How the service can be delivered



On site



Remotely



At service centres

Example

Paper plant cuts maintenance time by implementing CIP in their service plan

A paper plant company looked to update the cleaning regime of their large installed base of heat exchangers. Their normal cleaning method involved manually cleaning the units themselves, opening and closing the heat exchangers several times a year. The company turned to Alfa Laval to optimize the cleaning intervals. Guided by process data and Alfa Laval Performance Assessment, they decided to switch to Alfa Laval's Cleaning-In-Place (CIP) service and soon discovered that it saved them a considerable amount of time.

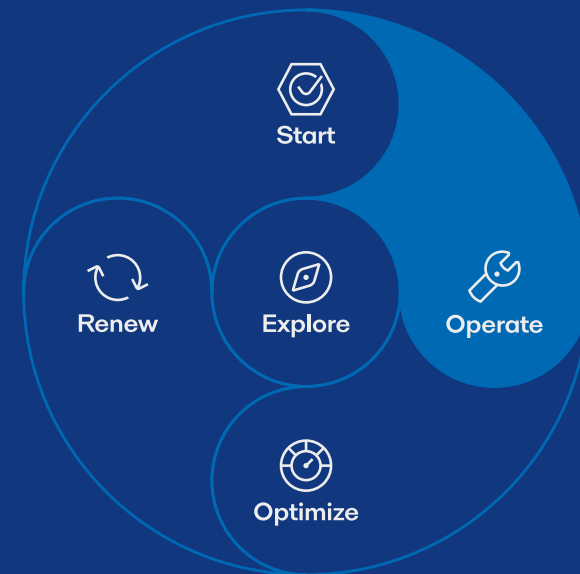
By conducting CIPs when needed, the paper plant maintained the performance of the heat exchangers and increased the intervals between opening of the units to only once a year. Apart from saving time for the staff, the new method eliminated the risk of leakage caused by frequently reassembling the units.

Main benefits

- A quick and safe cleaning method maintains the heat exchangers' high performance throughout the year.
- Reduced downtime of the heat exchangers.
- Longer lifetime of the gaskets and plates, as the unit remains closed during cleaning.



Cleaning-In-Place (CIP)



Related services

- Performance assessment
- Smart heat exchanger
- Reconditioning
- Visual condition assessment
- Manual cleaning
- Regasketing on-site

Contact Alfa Laval

Service and support

We are here to help you!
Please provide details about your needs,
and we'll connect you with the best team
to advise you.



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