



Explore

Alfa Laval

Performance assessment

for gasketed plate heat exchangers

Increase efficiency by optimizing unit performance

Checking the performance of your gasketed plate heat exchanger will give valuable insights on the thermal status of the unit. Performance assessment is available for both Alfa Laval and non-Alfa Laval plate heat exchangers.

Our services help you with:

- Assessing the current thermal status of your heat exchanger
- Optimizing cleaning interval and choosing cleaning method
- Getting insights into the unit's design in relation to current production requirements

How it works

An experienced engineer conducts an inspection of the plate heat exchanger's performance. Using calibrated temperature and flow gauges, the engineer collects data on temperature differentials and flow rate.

The data is analyzed with thermal analysis software to determine the heat load. Information on maintenance and operation procedures for the unit is also collected. The analysis is consolidated in a report by the expert, with performance benchmark and a service recommendation.

If operational data is already available, or if Alfa Laval smart heat exchanger is used, this data can be used to do the analysis and produce the report.

How the service can be delivered



On site



Remotely



At service centres



On board



In dry dock



Examples

M30 plate heat exchangers

A global petrochemical supplier faced the challenge of having to maintain nine titanium plate heat exchangers at their Antwerp steam cracker plant.

The heat exchangers, used for cooling process water, needed to run reliably, and perform optimally and equally. Performing maintenance on a fixed schedule would result in unnecessary downtime.

The solution involved conducting a performance assessment and reconditioning on all nine heat exchangers. Subsequently, regular assessments were performed to ensure continued performance and just-in-time maintenance, to eliminate downtime.

Benefits

- Detailed performance analysis for each M30 plate heat exchanger.
- Optimal heat exchanger performance, leading to increased overall output.
- Reduced annual maintenance costs by conducting the right maintenance at the right time.

A45 plate heat exchangers

A leading Saudi Arabian petrochemical manufacturer needed 39 A45 heat exchangers to perform optimally during critical summer months. The units had to run reliably, without unnecessary maintenance costs and downtime.

After conducting performance assessments and optimizing the service schedule for all units, the petrochemical manufacturer could increase plant uptime and achieve gains on multiple fronts.

Benefits

- Hundreds of thousands of euros saved since 2008.
- Optimal heat exchanger performance ensures no production losses during summer.
- Reduced cleaning time (from 150 to 24 man hours) by switching to CIP (Cleaning in place).
- Cleaning period reduced from seven days to one per plate heat exchanger.
- Less frequent opening extends the lifetime of the equipment, and reduces spare parts expenditure.



Performance assessment



Related services

Reconditioning
Smart heat exchanger
CIP (Cleaning in place)

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.

www.alfalaval.com/contact-us/service-and-support

