



Alfa Laval Visual Condition Assessment

Run longer. Run safer. Run better.



Alfa Laval Visual Condition Assessment will give you a quick overview of the state of your gas-ketted plate heat exchangers. We inspect your heat exchanger during operation and provide you with a report stating our recommendations to ensure continued optimal performance.

With a Visual Condition Assessment, we work closely with you to identify and resolve any issues that require attention. Using a thermal imaging camera enables us to evaluate the thermal performance and make recommendations to maintain your heat exchangers in top operating condition based on our findings and analysis.



What's in it for you

A gasketed plate heat exchanger is a stationary piece of equipment without any moving parts. But heat exchangers still require routine maintenance to optimize performance just like other critical process equipment in your production facility. However, heat exchanger maintenance intervals can vary widely, depending on various factors, including media, temperature and pressure. Which is why it is important to assess the performance of your gasketed plate heat exchanger.

Heat transfer is one of Alfa Laval's key technologies. Our gasketed plate heat exchanger experts provide sound advice about how to optimize the performance of your heat exchangers based on the Alfa Laval Visual Condition Assessment. This may include upgrading recommendations, short- and long-term measures to optimize routine maintenance, guidance on improving your genuine spare parts inventory, and optimizing performance.



What an Alfa Laval Visual Condition Assessment includes		
Condition of frame parts	Corrosion	✓
	Nuts and bolts	✓
	Bearing boxes	✓
	Carrying and guiding bars	✓
	Cladding (if present)	✓
	Leakages	✓
Plate condition	Number of plates	✓
	Plate pack measurement	✓
	Alignment of the plates	✓
	Plate mounting	✓
	Plate edge deformation	✓
Gasket condition	Swelling	✓
	Hardness	✓
	Ozone cracks	✓
	Gasket groove placement	✓
Thermal performance	Clogging	✓
	Fouling	✓
	Maldistribution	✓

How it works

- **Visual inspection:** Alfa Laval experts visually inspect your heat exchangers, documenting their condition with photos and thermal images.
- **Information gathering:** We collect information such as running conditions and any issues about each plate heat exchanger through onsite discussions with you and/or your staff.
- **Condition assessment:** We use our plate heat exchanger knowledge to evaluate:
 - how various operating conditions may lead to different issues
 - the root cause of any issues
 - issues that may require further investigation by our heat exchanger experts and, when necessary, make them available
 - choice of materials, including metal, rubber and chemicals, in consultation with Alfa Laval material experts in Sweden
- **All-brands:** We include inspection and assessment of, as well as a report on, plate heat exchangers from other manufacturers. However, the level of detail for the report may vary depending on manufacturer.

What you get

A one-page report for each plate heat exchanger containing:

- Heat exchanger data
- Photos of the areas with issues
- Thermal image of the plate pack
- Gasket lifetime prediction
- Evaluation of the general condition of the plate heat exchanger
- Recommendations on safety or problem areas that require attention
- Maintenance recommendations
- Evaluation of the thermal performance based on thermal imaging