



Strategic heat exchanger plate pack swap saves enterprise data center downtime

Reconditioning plates provides sustainable service solution

Enterprise data centers cannot afford to be down. This requires a proactive approach to maintenance. When performing at their optimal level, gasketed plate heat exchangers provide efficient and reliable heat transfer. All gasketed plate heat exchangers will need reconditioning at a certain point for two reasons: to avoid performance loss or to replace gaskets.

When an enterprise customer in the Midwestern United States was experiencing a decrease in performance, they knew it was time to perform regular maintenance. An Alfa Laval trusted service advisor helped them change over a M15B plate pack and install a new, strategic plate pack which the customer keeps in their critical stock inventory. The 277 plates were shipped to the Alfa Laval service center in Greenwood, Indiana for reconditioning.

In more than 100 Alfa Laval service centers around the world, a range of reconditioning services are offered to enhance the performance of equipment, extend its lifetime and ensure a safe and efficient operation. Cleaning, crack detection, reassembling with new gaskets, pressure testing and replacement of defective plates are just part of the reconditioning process. Customers receive real-time inspection reports to understand the state of the equipment.

Fast facts

The customer

This global, Fortune 25 customer needed assistance at their Midwest United States location.

The challenge

Determine the reason for plugging and decreased performance.

Reduce maintenance costs

Eliminate unnecessary downtime by having a plate pack on hand to swap so reconditioning can be performed at the Alfa Laval Service Center.

The solution

Field service assisted customer with a turnkey service solution which prevented the expense of replacing all the plates and reduced the downtime that occurs if plates are cleaned on site. The customer utilized a sustainable service option by reconditioning existing plates instead of purchasing new plates. The 277 reconditioned plates were then placed back in the customer's critical stock.

Benefits

Alfa Laval has been a leader in heat exchange technology since 1933. The customer was impressed with Alfa Laval's troubleshooting expertise and gasket installation prowess. In the end, the customer benefited from genuine spare parts, staff training and experienced energy savings.



Reconditioning benefits

- Optimizes life cycle maintenance cost
- Restores equipment to as-good-as-new condition
- Minimizes maintenance downtime and labor costs
- Provides sustainable solution with existing plate reuse

Alfa Laval's contribution

Our yearly new installations

Every year, new Alfa Laval plate heat exchangers enable free cooling in data center operations, resulting in 144 GWh of energy savings and a CO₂ emissions reduction of 33,000 tonnes. This is the equivalent of heating:



10,000
American homes

Total installed base contribution

Annually, Alfa Laval heat exchangers provide a total of 530 GWh of energy savings through free cooling in data centers. They also reduce CO₂ emissions by 120,000 tonnes, or the amount generated by:



1,400
Heavy trucks

Imagine if...

...by 2030, all data centers utilized the waste heat from the servers. They would reduce CO₂ emissions by 680 million tonnes every year, while saving a combined 3,000 TWh, the equivalent of what it takes to heat:



300 million
European homes

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