**Reactor temperature controller in green chemicals production**

**Green chemicals plant, France**

A green chemicals plant in France endured longstanding problems with a heat exchanger used for controlling reactor temperature. Sudden steam injections in the reactor resulted in rapid temperature and pressure changes, which in turn caused fatigue in the heat exchanger. The company’s engineers decided to replace the failed heat exchanger with Alfa Laval DuroShell.

With its unique design, DuroShell secures fatigue resistance up to five times higher than other plate-and-shell heat exchangers.

The high thermal transfer and low hold-up volume let DuroShell regulate temperatures quickly and accurately, which is important for both product quality and process yield.

**Results**
- Highly resistant to fatigue
- Quick and accurate temperature control thanks to low hold-up volume

**Why Alfa Laval DuroShell**

<table>
<thead>
<tr>
<th>Maximize uptime</th>
<th>Cut costs</th>
<th>Increase capacity</th>
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<tbody>
<tr>
<td>High reliability and fatigue resistance</td>
<td>Low investment cost</td>
<td>DuroShell’s compact size and high thermal efficiency make it easy to increase capacity to solve heating and cooling limitations</td>
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<td>Minimal maintenance</td>
<td>Minimal energy consumption</td>
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**How to contact Alfa Laval**
Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com.