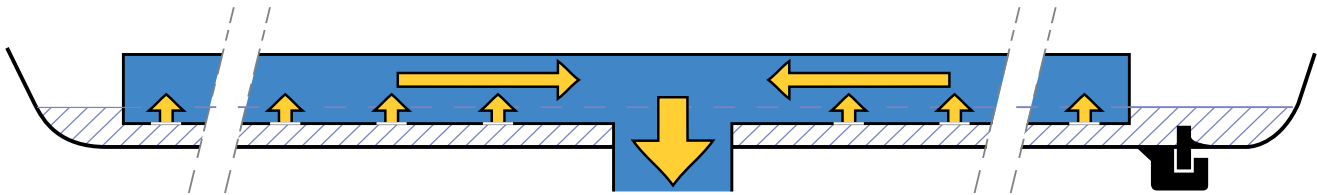


Upgrade Kit | Static Retort

Low Energy Suction System (LESS)

~45%* less water volume required to be heated and cooled per process



General

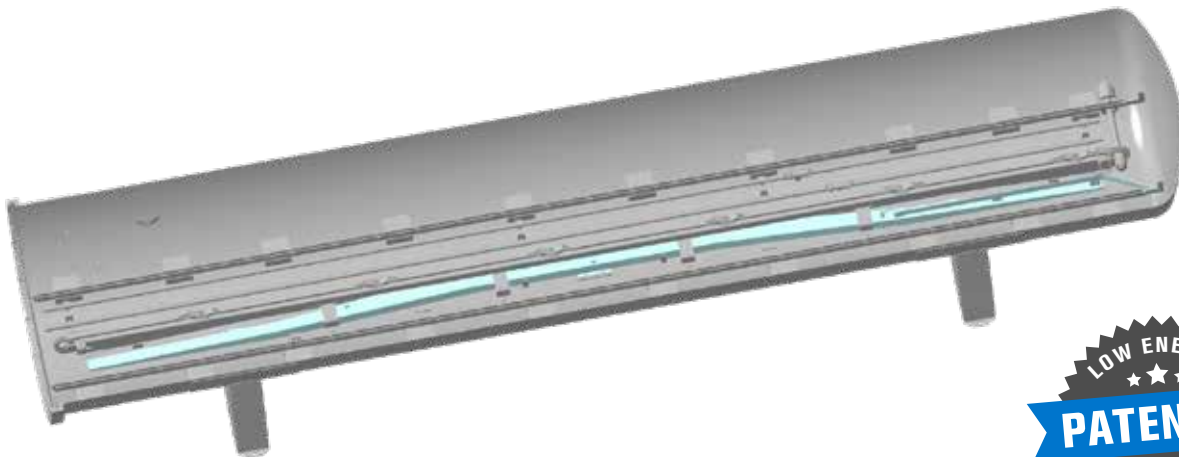
The low water level system utilizes a suction manifold to spread the suction points out along the entire length of the vessel. This allows for a lower water level to be used during processing without causing pump cavitation. As a result, ~45%* less water volume required to be heated and cooled per process, reducing the load on both the boiler and the cooling system.

Principle

- Water is transferred into the manifold through specifically sized ports along the length of the manifold. Port opening size varies based on the distance of the port from the suction point.
- The water flows through the manifold to the suction points to be sent to the pump circuit
- The pump circuit returns the water to the retort via the spray pipe system and the water is recirculated through the manifold



Implementation



Benefits

- Process energy cost savings of ~\$20,800* per year, per retort (based on \$5,200 per 1000 cycles)
- Boiler water supply, filtering and treatment cost savings of ~\$1,000* per year, per retort (based on \$240 per 1000 cycles)
- Total cost savings of ~\$21,800* per year, per retort (based on \$5,450 per 1000 cycles)
- Passive; no maintenance required

***Note:**

Actual cost savings will depend on various factors such as:

- Number of Cycles Run
- Retort Size & Options
- Energy & Utility Costs



OUR BRANDS



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We're with you, right down the line.™

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