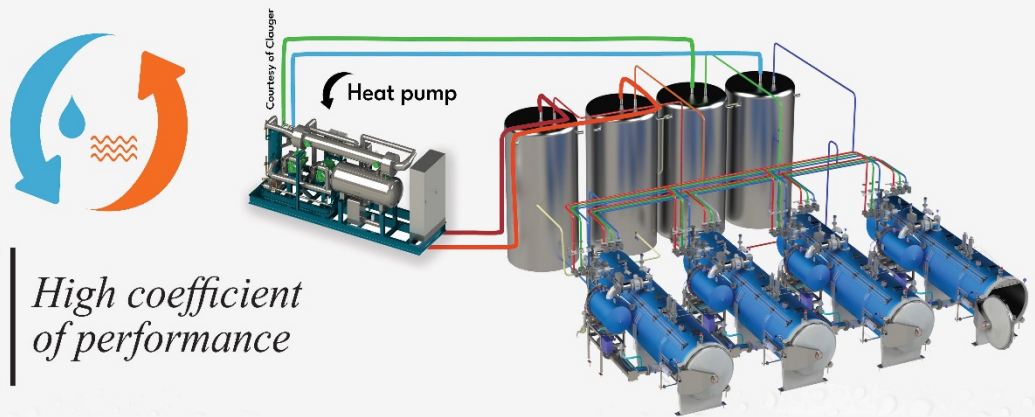


RECOVER ENERGY & DECARBONIZE

Recover heat - **Reduce** carbon - **Rethink** sterilization



Steriflow Introduces Breakthrough Heat Pump Solution for Fully Electrified, Low-Carbon Autoclaves

Steriflow is taking a major step toward more sustainable food processing with an innovative heat pump solution designed to transform autoclave energy use.

A simple concept with powerful impact

Traditional autoclaves require significant heat input while wasting energy during cooling, leading to high operating costs and a substantial carbon footprint. They also depend on steam boilers, typically powered by fossil fuels.

Steriflow's approach turns this challenge into an opportunity. By integrating heat pump technology, waste heat can be recovered and reused within the process—reducing energy consumption while maintaining optimal performance.

This smart energy loop simultaneously provides heating and cooling, significantly improving efficiency and reducing overall energy consumption.

The result is a simpler, more efficient system—and a major step toward decarbonization.

A concrete response to decarbonization challenges

This breakthrough opens the door to low-carbon sterilization. When powered by decarbonized electricity, autoclave operations can become virtually carbon-free.

“By combining electrification and heat recovery, we are redefining how autoclaves consume energy,” says Steriflow. “This innovation enables our customers to reduce both their energy costs and their environmental impact.”

With this breakthrough, Steriflow reinforces its position at the forefront of next-generation, sustainable sterilization solutions.

About Steriflow

Based in Roanne, France, Steriflow has been designing and manufacturing industrial autoclaves for sterilizing and pasteurizing food and pharmaceutical products for over 50 years. A global leader in thermal processing for packaged products, Steriflow supports manufacturers in their efforts to optimize quality, safety, and energy performance.

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