

MWO: 34370



CLEAN-IN-PLACE HEATERS

This order includes twelve U-tube style CIP and water heaters for a baby formula process. All use steam to heat water or CIP solution to a specific temperature.

They were designed and built to the 3-A Sanitary Standard which includes 316L stainless steel seamless tubes, tri-clamp connections, and a tubeside finish of 32Ra or better.

PRODUCT HEATER

Engineered for a taco sauce process, this heater was built to ASME Code. The heater is a straight tube, 12-pass unit with a flanged and flued expansion joint to allow for thermal expansion of the tubes. On one end is an annular distributor which is used to reduce the velocity of the incoming steam on the shell side and to distribute the heat more evenly to avoid burn-on of the product. It also has 2" tri-clamp ferrule connections and welded tubing.



MWO: 28172



MWO: 27974

STEAM HEATERS

These custom-designed 4" x 68" heat exchangers were engineered with tri-clamp tube sheets for easy installation. They each have a bellows expansion joint to allow for thermal expansion of the tubes.

These exchangers meet the 3-A Sanitary Standard. Enerquip's 3-A shell and tube heat exchangers have finish requirements of 32Ra or better, including 316L stainless steel SA-213 seamless tubing.



MWO: 28792

BIOGAS COOLER & CONDENSER

This is a straight-tube biogas cooler and condenser set. The unit is designed to cool and condense over 2,500 lbs of biogas per hour for a dairy facility. The vertical piece on the front is a knock-out pot built to collect condensate. The flanges on the side of the knock-out pot will be used for instruments that control the condensate level pump.



MWO: 34525

SANITARY VAPOR CONDENSER

Built for a food processing application in Canada, this straight-tube steam condenser was designed for vertical mounting below a tank. Its sanitary design and finish include 316L stainless steel tube side components, seamless tubes, and tri-clamp connections for drains and level controls. In the center, you'll find a flanged and flued expansion joint to allow for thermal expansion.



MWO: 27903

CLEAN-IN-PLACE HEATER

Using steam, these recirculating heaters take CIP solution from 68°F to 176°F. Designed for installation at a customer-specified 5° angle to promote drainability, their double tube sheet design also protects against cross-contamination of process fluids between the shell and tubes.

WATER HEATER

Built for a food production process, this 16" x 80" water heater takes water from 40°F to 180°F using 6 psig steam. To help minimize the impact of direct steam heat, the front of the unit was designed with a steam bustle. In addition, this unit has an expansion joint in the shell, a ThurmaloX 70 shell coating, and a 2" insulation jacket.



STRAIGHT TUBE VERTICAL EXCHANGER

This project spotlight is a 20" x 84" straight tube assembly meticulously crafted for vertical installation in a dairy application. Built to the 3-A Sanitary Standard, this sanitary heat exchanger boasts seamless 316L stainless steel tubing, a 32Ra tube-side finish, and secure tri-clamp connections.

WATER COOLER

This 14"x108" sanitary heat exchanger was built to aid in a global food company's critical product cooling application.

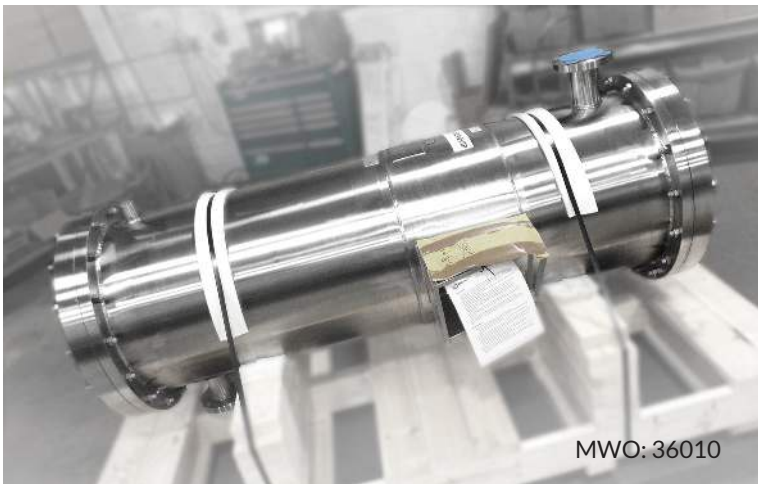


It was designed with a removable channel and tube bundle for easy cleanability. Its tubes were bright annealed to help reduce surface oxidation, resulting in a brighter surface.



CLEAN-IN-PLACE HEATER

This is a recirculating 520 gpm CIP heater with a sanitary design and finish. For added protection against cross-contamination, this unit also boasts a double tube sheet design. The insulated jacket has welded feet and lifting lugs, and the channel is designed to provide clamping space for 6" ferrules.



COMPOUND COOLER

This project spotlight is a 24" x 72" straight tube compound cooler built for vertical installation in a chocolate process. It was built with 304L stainless steel, tri-clamp tube side connections, and removable bonnets on both ends. This unit has almost 1,200 straight tubes that were bright annealed to reduce surface oxidation.

SLURRY HEATER

This is one of four straight-tube heat exchangers designed for the brewing industry and built to TEMA, ASME, and the 3-A Sanitary Standard.

Their steam bustle and tube pitch ensure consistent heating of the product. At 20-feet long, they're quite the showstoppers.



GAS LIQUEFIER

This project spotlight is a 30" x 240" industrial U-tube gas liquefier/condenser built for a brewing application. It's designed to vaporize CO2 used in the client's process.

Connected through vapor vents and sitting on top of the reboiler is a 20" x 16-foot surge tank. Commonly used in water supply systems, surge tanks on reboilers are used to provide additional liquid/vapor separation and holding space for the vaporized gases.



MULTI-DUTY BEER WORT EXCHANGER

This multi-duty 8 x 80" sanitary heat exchanger was engineered as a wort heater, cooler, and evaporator. It was designed with 316L stainless steel straight tubes and a bellows-style expansion joint.

3-A EXCHANGERS

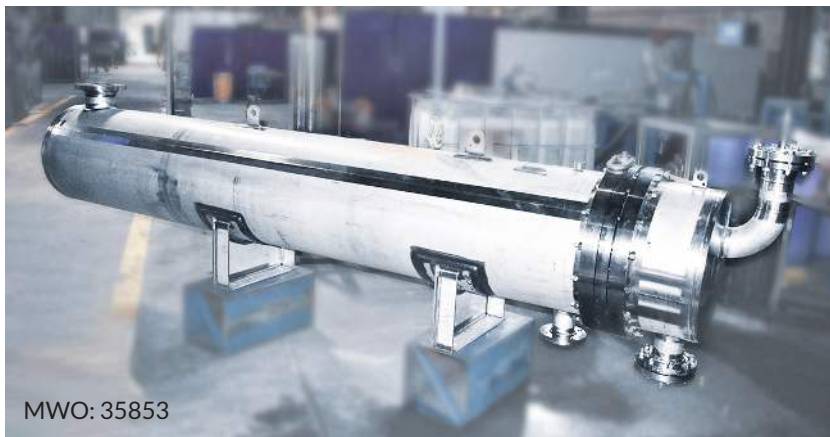
These custom-designed 4" x 68" heat exchangers were engineered with tri-clamp tube sheets for easy installation. They meet 3-A Sanitary Standards as well as ASME Section VIII.

Enerquip provides the surface finish, seamless tubing, weld quality and FDA-approved elastomers required to give you the peace of mind that your 3-A exchangers comply with sanitary standards.



WINE COOLER

This project is a 16" x 240" multi-duty wine cooler. It will be used in the fermentation process, along with multiple stages of cooling. To allow for easy cleaning, it was built with 1" 316L stainless steel straight tubes and removable bonnets. This unit also has a two-pass shell design, which includes a longitudinal baffle in the tube bundle to help improve efficiency due to the close temperature approach.



SOYBEAN OIL HEATER

This project is a set of 22" x 108" U-tube soybean oil heaters for the agricultural industry. They were designed to sit side-by-side atop a 304L stainless steel stand (also supplied by Enerquip) that reaches seven feet off the floor. Each unit has over 250 welded tubes that were roller-expanded and seal-welded into the tube sheet.

STOCK SANITARY

Enerquip stocks various-sized sanitary and 3-A steam heaters for rapid delivery. Not sure if a stock unit will fit your application? No problem. We can run your specifications through our thermal modeling software before purchase.



Scan the QR code to learn more.



Let us design a custom solution for your production process. Call us, today!

Enerquip Thermal Solutions
611 North Road, Medford WI 54451
(715) 748-5888 | sales@enerquip.com
www.enerquip.com

