



MWO: 36397

LITHIUM CARBONATE HEATER

This 24" x 240" straight tube exchanger is a lithium carbonate solution heater. Using recycled water, its job is to increase the solution over 70°F in a single pass. The unit's straight tube design and removable bonnet and tube make cleaning a breeze. Lithium carbonate plays a vital role in various industries, from ceramics and glass production to aluminum production. It's even a key ingredient in the powerhouse that fuels lithium-ion batteries.

VAPOR CONDENSER

This straight-tube heat exchanger was built for vertical installation to condense chemical vapors for recovery. At 240" tall, it's going into quite the skid. Both ends of the unit have removable bonnets, and over 250 welded tubes have been sealed and welded into the grooved tube sheets. This exchanger is ASME Code stamped and was designed to TEMA B standards for chemical use.



MWO: 28801



MWO: 28653

BAYONET HEATER

This is one of several custom bayonet heaters built for a large chemical process. This U-tube style heater has a removable bonnet and tube bundle and is designed to be placed directly into fluids. It's been designed to TEMA B and is ASME Code stamped.



HERBICIDE HEATER

This unit heats 13,000 gallons of herbicide from 70°F to 180°F using 90 psig steam. It was built with all 316L stainless steel and has a sanitary finish on the product contact surfaces. Its welded tubes were bright annealed to reduce surface oxidation, and the bundle is removable to allow for easy cleaning.

MWO: 28636

NITROGEN COOLER

Built for the chemical industry, this project is a straight-tube nitrogen cooler rated to 1,100 psi. This 16" x 168" unit was built with over 500 ½" tubes that were roller expanded and seal welded into the tube sheets.



MWO: 34158



MWO: 35341

KETTLE REBOILER

This 120" U-tube kettle reboiler was built for a chemical process application. Its eight welded tubes were roller expanded and seal welded into the double-grooved tube sheet.

In a kettle reboiler, water or process fluid is pumped into the bottom of the exchanger shell. The fluid boils and flashes to vapor when it meets the hot tubes. The vapor and liquid then separate in the space above the bundle, and the vapor exits through a top vent connection while any unflashed liquids are recirculated to be boiled again.

BOTTOMS COOLER

Built for a chemical process, this 10" x 45" bottoms cooler takes the product from 315°F to 120°F using 45°F 30% Propylene Glycol. It was built with a removable end plate, bonnet, and tube bundle for easy cleaning. It has an all-mill finish along with 14" welded support feet.



WAX COOLER

This beauty is an AES-style heat exchanger with a four-pass bonnet design. It's designed to drop the temperature of wax from 220°F to 160°F. Its U-tubes have been roller-expanded and seal-welded into the double-grooved tube sheets. The unit was designed to TEMA R for refining and ASME code stamped.

NITROGEN COOLER

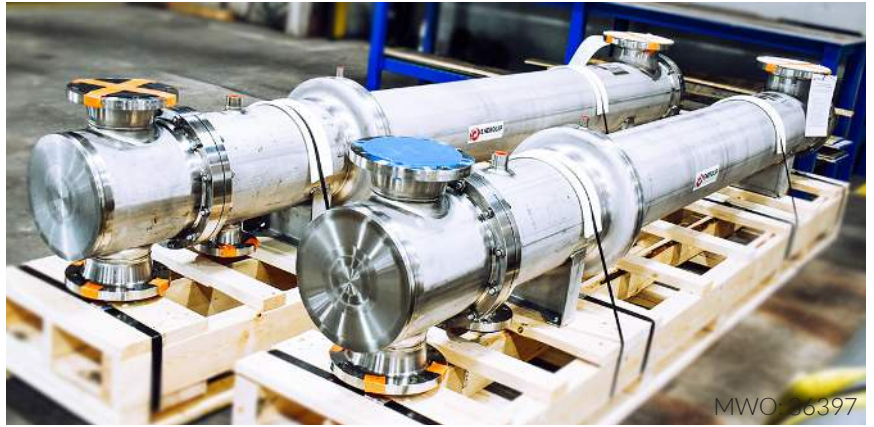
At almost 16 feet in length, this nitrogen cooler is quite the showstopper. It was built with 304L stainless steel and has over 600 ½" straight tubes that were roller expanded and seal-welded to the tube sheet.

Due to the extreme high pressure required within the exchanger, the shell and channels were fortified with substantial thickness.



LITHIUM CARBONATE HEATER

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RESIN REACTOR CONDENSERS

This set of 30" x 160" resin reactor condensers were designed for a leader of automotive coating solutions. Both units have flanged and flued expansion joints for thermal expansion protection, along with davit arms on both ends to easily remove the flat channel covers. The nozzles are tangentially installed for ease of piping because two saddle supports pitch the unit toward the condensate outlet.



VERTICAL DISTILLATION REBOILER

This project spotlight is a 30" x 108" distillation reboiler built for vertical installation. It has an industrial design with an all-mill finish. The shell side components were made with all 304L stainless steel, while the tube side components were built with Duplex 2205.

Often used in chemical processing applications, Duplex 2205 is characterized by its high yield strength, as well as good fatigue strength, and outstanding corrosion resistance in severe environments.

The unit's seamless tubes were roller expanded and seal welded to the tube sheets. Both ends have removable bonnets. You'll find a flanged and flued expansion joint near the middle to protect against thermal expansion.





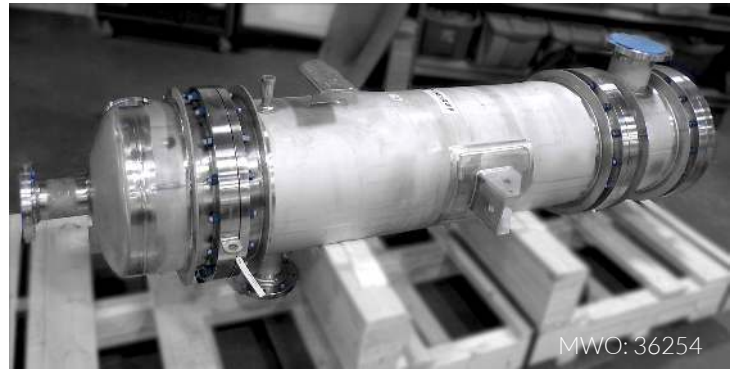
MWO: 35669

AIR HEATER

This stout 14" x 30" BXM cross-flow air heater was built for vertical installation in our customer's production process. Using 370°F steam, this unit will take process gas from 80°F to 195°F in a single pass. At the center is a flanged and flued expansion joint to allow for thermal expansion protection.

DOWNDRAFT CONDENSER

This project features a sleek downdraft condenser designed for vertical installation. Crafted from 304L and 316L stainless steel, this beauty boasts over 500 meticulously rolled and seal-welded tubes snugly fitted into double-grooved tube sheets for maximum durability. This unit was designed according to ASME code and TEMA B guidelines for chemical use.



MWO: 36254



MWO: 27772

DROP RESIN REACTOR CONDENSERS

These drop resin reactor condensers have a pipe-in-pipe design with spiral baffles to promote turbulent flow. Both have flanged and flued expansion joints for thermal expansion protection. These heat exchangers are designed to the TEMA Standard Class B and are ASME code stamped.

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

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