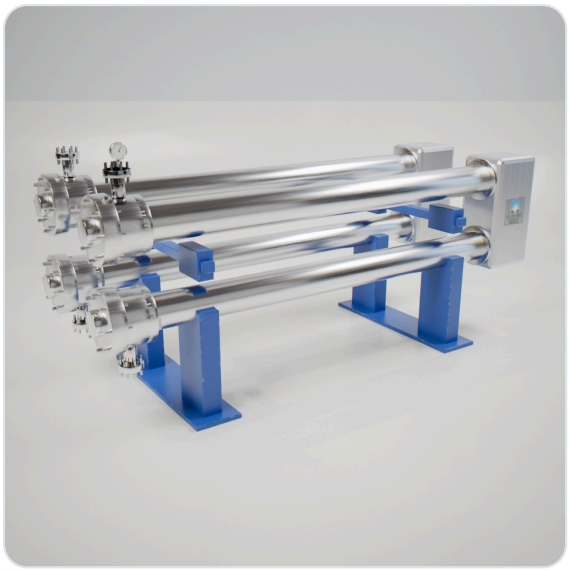
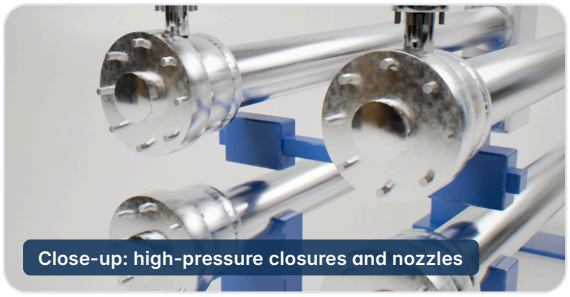
PRODUCT DATASHEET

High-Pressure Hairpin Heat Exchanger

Hairpin, double-pipe and coil exchangers to 400 bar and above

Product page





Close-up: high-pressure closures and nozzles

OVERVIEW

The Tech Inc. High-Pressure Hairpin Heat Exchanger heats and cools fluids at 400 bar and above in a long, slim pressure envelope.

TYPICAL DESIGN DATA

Materials	316L, Alloy 625, C-276, duplex and super duplex; carbon steel outer pipe where allowed
Design pressure	To about 1,000 bar in small sizes, about 400 bar at 8 inch
Design temperature	About -40 to 400 °C, by material
Design code	ASME VIII Div. 1 or Div. 2, ASME B31.3 high-pressure piping; PED on request
Closures	Ring-joint, lens-ring or cone-and-thread
Inspection	Hydrotest, PMI, radiography and dye-penetrant to code

MODELS AND CAPACITIES

- **TI-HPX-25** – inner tube about 1/2 to 1 inch, to about 1,000 bar, lab and pilot duty
- **TI-HPX-100** – multi-tube about 4 inch shell, to about 450 bar
- **TI-HPX-C** – coil-in-shell, coil to about 1,000 bar, shell to 10 barg
- **TI-HPX-50** – inner pipe about 2 inch, to about 600 bar
- **TI-HPX-200** – multi-tube about 8 inch shell, to about 400 bar

Indicative sizes; duty depends on fluids, temperatures and allowed pressure drop.

ORDERING CODE

Example **TI-HPX-50-H-400-625**: **50** size: inner pipe or shell nominal size in mm; **H** type: H hairpin, M multi-tube, C coil-in-shell, J jacketed pipe; **400** high-pressure side design pressure, bar; **625** high-pressure side material: 316, 625, 276 (C-276), SD (super duplex).

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: stacked sections for long thermal lengths; jacketed pipe for reactor lines; insulation and cladding.

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