Basco
An API Heat Transfer Company

Hairpin heat exchangers.

A hairpin design is often more thermally efficient than a traditional shell and tube, which results in a lower up-front cost and lower overall weight. Our experienced designers and engineers can meet any custom cooling requirement.

Performance notes.

Compact footprint.
Hairpin heat exchangers are well suited for applications that require high thermal performance and a compact footprint.

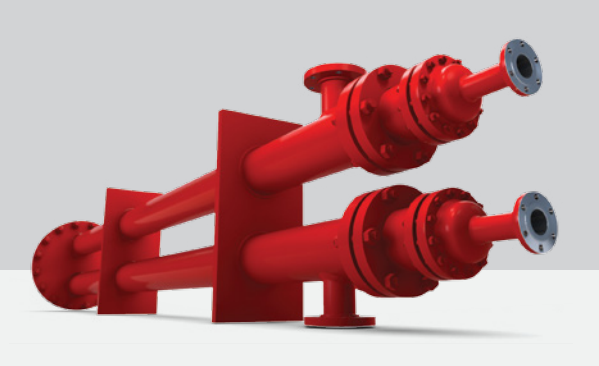
Pure counter flow.
Hairpin heat exchangers deliver true countercurrent flow, allowing for a close temperature approach between the shell side and tube side fluids, as well as a temperature cross.

Bundle options.
Removable bundle designs are available in two closure options, separated or common, for use when an application calls for cleaning on both the shell and tube sides. The non-removable bundle design – the more cost-effective option – works well when a fixed tubesheet design is feasible.

No expansion joint necessary.
Hairpin heat exchangers handle wide temperature differentials without an expansion joint.

Features and codes.

- **Pure countercurrent flow**
- **Ease of maintenance – long radius u-bend**
- **All connections are at one end of the heat exchanger**
- **Up to 60" in diameter and 480" in length**
- **Materials include carbon steel, 300 series stainless steel, duplex stainless steel, copper alloy, chrome-moly alloys, Hastelloy, Inconel, Monel, Avesta 254 SMO, alloy clad/weld overlay**
- **Designed and fabricated per ASME, TEMA, CRN, PED, Chinese SQL license**



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