Allegheny Bradford Corporation





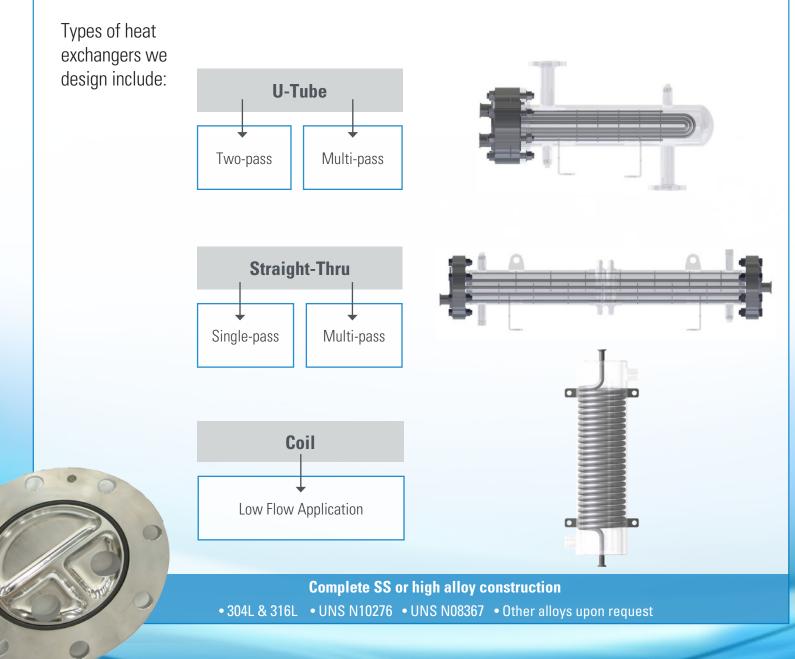
Custom Sanitary Shell & Tube Heat Exchangers

ABC knows BPE

- Allegheny Bradford is actively involved in multiple Bioprocessing Equipment (BPE) subcommittees, ensuring we have a voice in every specification decision.
- We provide the highest quality BPE-compliant heat exchangers and an unsurpassed Turn Over Package, which exceeds all pharmaceutical industry validation requirements.

ABC Custom Heat Exchangers =

Consistent Performance, Reduced Maintenance, and Extended Equipment Life.



ABC also designs and fabricates industrial shell and tube heat exchangers

Allegheny Bradford Corporation produces a range of shell & tube industrial heat exchangers in 304, 316L, high chromium alloys and titanium for the most demanding applications.

Whether straight-tube, U-tube, or coil design, ABC provides a custom designed heat exchanger tailored to your exacting requirements to maximize the performance and efficiency for your process.

Features include:

- 100% vibrational and acoustic resonance analysis.
- All multi-pass exchangers, straight-tube or U-tube, include accurate counter-current and co-current flow analysis.
- U-tube exchangers can include removable tube bundles allowing for cleaning, maintenance and inspections.
- Precise expansion and contraction calculations are performed on all straight-tube exchangers to determine expansion joint necessity. (Expansion joints are not needed for U-tube designs).
- Reynolds numbers are reported with each design to report the efficiency of the design.
- Precise tube side and shell side pressure drop calculations are reported with every design. (Based on the allowable pressure drop per your specifications).
- TEMA recommended fouling factors are calculated and provided with every design.
- Unsurpassed document control department to ensure receipt of all necessary validation documentation.



Allegheny Bradford heat exchangers are used in many industries:



Food and Beverage



Chemical/Industrial



Electronic/Semiconductor



Wood/Paper

Every Allegheny Bradford heat exchanger is custom designed to meet your exact requirements

Features	Double Tube Sheet	ABC's insulation jacket	ABC utilizes hydraulic tube expansion	Fully radiused pass pockets	Advanced thermal & mechanical c
Benefits	Eliminates the possibility of cross contamination	Allows for independent expansion of the heat exchanger eliminating stress on the shell side inlet and outlet ports	 Eliminates spiral stress and work hardening Minimizes damage to tube finish 	Offers industry's best drainability	Ensures: • 100% analysis of process vibration • Process - specific Reynolds Numb • Precise pressure drop calculation • TEMA - recommended fouling factors • TEMA - recommended foul

Prior to shipment, every heat exchanger undergoes rigorous testing and documentation procedures that can include:

- Hydrostatic pressure testing
- Dye penetration examination
- Radiography
- Steam testing
- Positive material identification (PMI)
- Profilometer readings of surface finish to ensure surface finishes to less than 10 microinches Ra.
- Fiber optic, borescopic tube inspection and videotaping of product contact surfaces on DVD

You receive complete documentation to comply with your requirements, including data reports, seismic calculations, production drawings, material test reports, and certifications of hydrotest, passivation, surface finish and electropolishing.

- Ferrite testing
- Drainage testing
- Saline testing
- Computer-verified performance



Complete Certification



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Team of dedicated professionals who are committed to the responsive customer service YOU need!

Provide you with products that deliver unparalleled performance and dependability



Codes & Standards

- UL-508A
- ASME
- CRN
- Bioprocessing Equipment Standards Committee (BPE)
- GMP
- 3-A
- Ministry of Manpower (MOM)
- The National Board of Boiler and Pressure Vessel Inspectors R stamp
- ASTM
- TEMA
- SEP



Allegheny Bradford offers a full range of products:





Allegheny Bradford Corporation



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www.alleghenybradford.com

