

Fin-Tube and Plate-Fin Heat Exchanger Advantages

- High thermal efficiency in heat recovery (90+%)
- Compact and lightweight
 - Fin-Tube design is two to four times smaller than traditional Shell and Tube
 - Plate-Fin design takes up four to five times less space than conventional heat exchanger designs
- Counter current or cross flow
- Low pressure drop design
- High pressure applications (up to 1,000psi)
- Base design performs up to 1,650°F
- Customizable to fit your specific needs

HEAT EXCHANGER TECHNOLOGY

Heat, whether it is generated by electric power, natural gas or any other fuel source is used in nearly every industrial process. Reduce your energy consumption through waste heat recovery. Salvage as much heat as possible from your facility's process gases and put it back to work for you. FlexEnergy's highly efficient gas-to-gas heat exchanger designs are the most advanced available, allowing wasted heat to be captured and put to work to dramatically improve process efficiency. Our heat transfer solutions help you achieve specific system performance goals and maximize the efficiency of your mechanical assets.



Fin Tube exchanger ready to ship.

Consultative Approach. FlexEnergy's Application Engineering experts take a consultative approach to evaluating your specific needs and develop heat transfer solutions that are manufactured to meet your performance goals. We work with you to develop the precise solution you need.

Experience. With over two decades of experience building units to exacting standards and over seven million hours of operation, FlexEnergy is a leader in heat exchanger design and manufacture. We provide dependable and efficient heat recovery solutions.

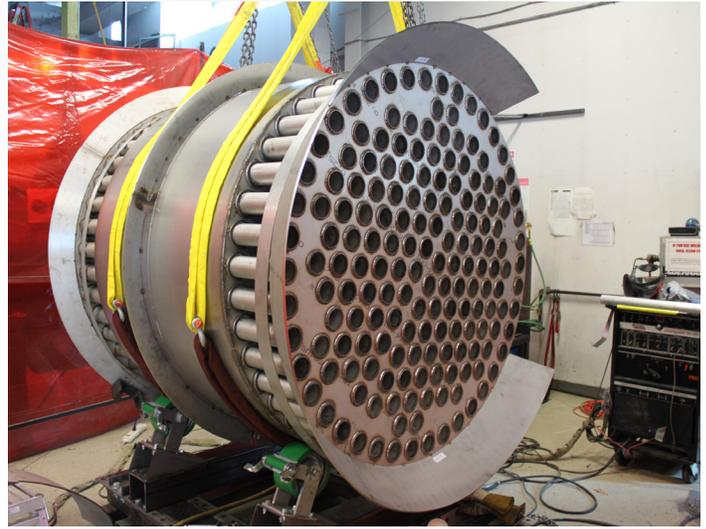
Capacity. Our heat exchanger solutions have been used in multiple applications from 500W to 20+ MW, providing waste heat utilization and thermal cycle efficiency improvements needed to reduce operating costs and increase reliability.

Materials. FlexEnergy uses a variety of materials to create units capable of performing in nearly every temperature environment, including super alloys like Inconel, and Hastelloy as well as many grades of stainless steel for high heat applications.

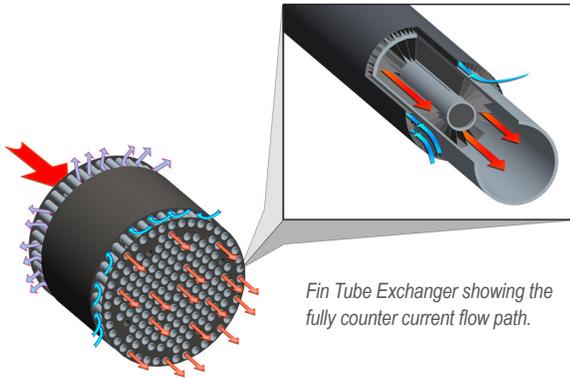
Customized. FlexEnergy's Heat Exchangers are highly customizable and adaptable to different applications and design constraints.



Two Large Plate Fin heat exchangers for a process pre-heater.



The core assembly of the Fin Tube exchanger destined for a Biogas recovery project.



Fin Tube Exchanger showing the fully counter current flow path.

MARKETS SERVED

- Petrochemical
- Oil and Gas
- Inorganic Chemical
- Steel
- Pulp and Paper
- Natural Resources
- Power Generation

VALUE

- Reduce energy consumption from waste heat recovery
- Significant space and weight savings over traditional shell and tube exchangers
- High reliability and uptime designs
- Meet rising emission limitations cost effectively

FEATURES AND BENEFITS

- Efficiency and High Performance
- High Efficiency: >90% typical design effectiveness significantly improves process efficiency
- High Temperature: up to 1650°F capable
- Low Pressure Drop Design

SCALABLE AND DURABLE

- Design and Manufacturing experience for 500W to 20+ MW applications
- Single high temperature metal and hybrid high temperature metal combinations
- High thermal cycle tolerance

CUSTOMIZABLE MATERIALS AND APPLICATIONS

- Counter current or cross flow designs depending on requirements or piping layout
- Compact footprint

