

# CompRex: Compact Technology Leader

- 150+ years of combined industry experience among leadership team
- Two decades of development and commercialization
- 16 patented manufacturing and application technologies

## Turnkey Solution Provider for Processes Containing Compact Technology



### Proprietary Technology

- Custom design, engineering and manufacture of compact heat exchangers and compact heat exchange reactors for high temperature and high pressure applications
- ASME coded diffusion bonded or brazed products



- Process Design and Integration
- Sister Company



- Procurement, Fabrication, & Installation
- Manufacturing Partner

# CompRex: Capabilities at a Glance

## Current Clients



Publicly-listed /  
Fortune 500  
specialty chemical,  
gas and oil  
companies

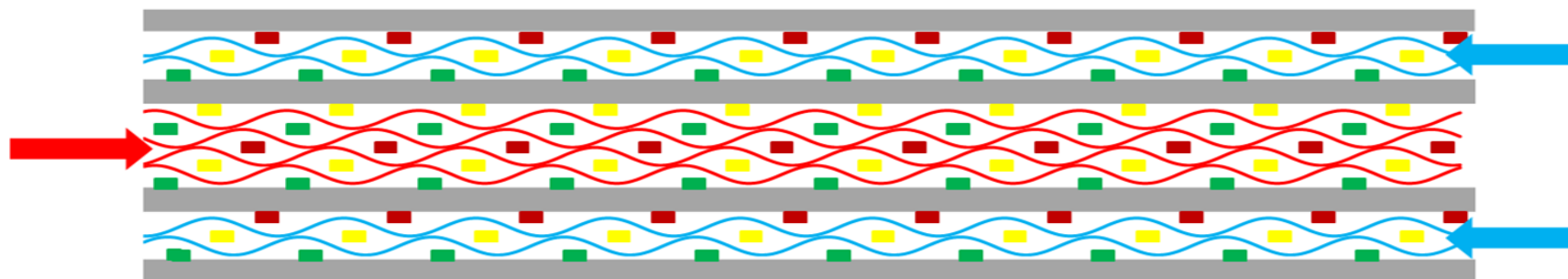
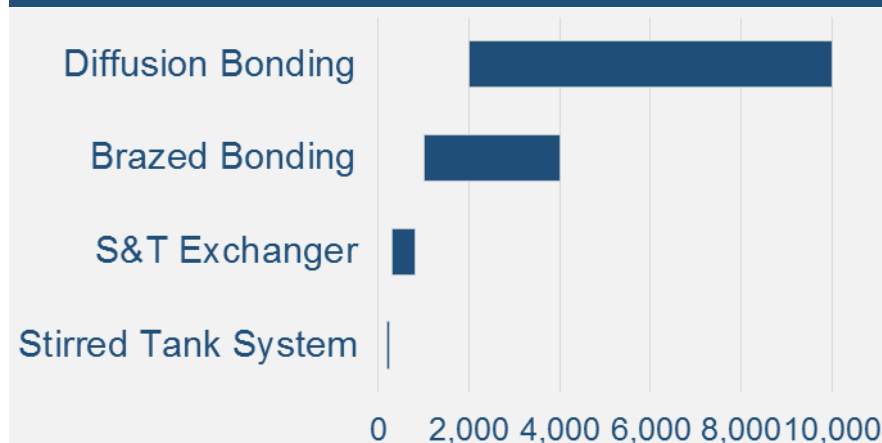
## Current Design Parameters

Construction Material	Typical Peak Temp (°C/°F)	Typical Peak Pressure* (bar <sub>g</sub> /psi <sub>g</sub> )
Steel	815/1,500	180/2,600
Advanced Alloys	900/1,650	300/4,350
Aluminum	204/400	>100/>1450

\* Peak Pressure varies with operating temperatures, and rating may vary with application.

## Current Efficiency

Surface Area Per Unit Volume (1/m)



# CompRex: Competitive Advantages

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## Compact Design

- Surface/Volume ratio  $> 1000 \text{ ft}^2/\text{ft}^3$
- Compact footprint for process intensification
- Higher energy efficiency resulting in lower Opex and CapEx

## Scalable Construction

- Customized flow passages for optimal performance
- Numerous channel designs with scalable width and height
- Multiple layers => Core blocks => Assemblies

## Advanced Manufacturing Technologies

- FinRex - Brazed Plate-fin Technology
- ShimRex - Diffusion Bonded Technology
- Both technologies produce ASME-coded vessels