

# EXOTHERMICS DIR HEAT EXCHANGERS

## **Featuring dimple plates and high temperature insulation for industrial applications.**

Exothermics dimple insulated heat exchangers are crafted from durable stainless steel. The quality of these materials, coupled with sound manufacturing techniques is what makes Exothermics DIR exchangers so efficient, resilient and virtually maintenance free. Every heat exchanger design is laboratory tested to ensure it meets design specifications and performance expectations.

Exothermics DIR heat exchangers offer both staggered and line dimple patterns. This design provides for highly efficient heat exchangers in both 0.5 inch (13 mm) or 0.375 inch (10 mm) plate spacing. The heat exchangers are fully welded, which virtually eliminates cross contamination. The heat exchanger allows for temperatures up to 1500°F (815°C).

### **Typical Applications**

- Fume preheating
- Thermal oxidizers
- Catalytic oxidizers
- Oven heat recovery
- Combustion air preheating
- Indirect process air heaters

### **Custom Design**

Our engineering team designs the right heat exchanger to suit each application precisely, delivering maximum process efficiency and short payback times for our customers.



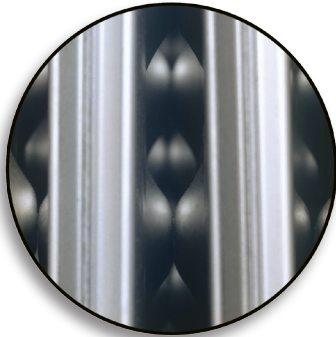
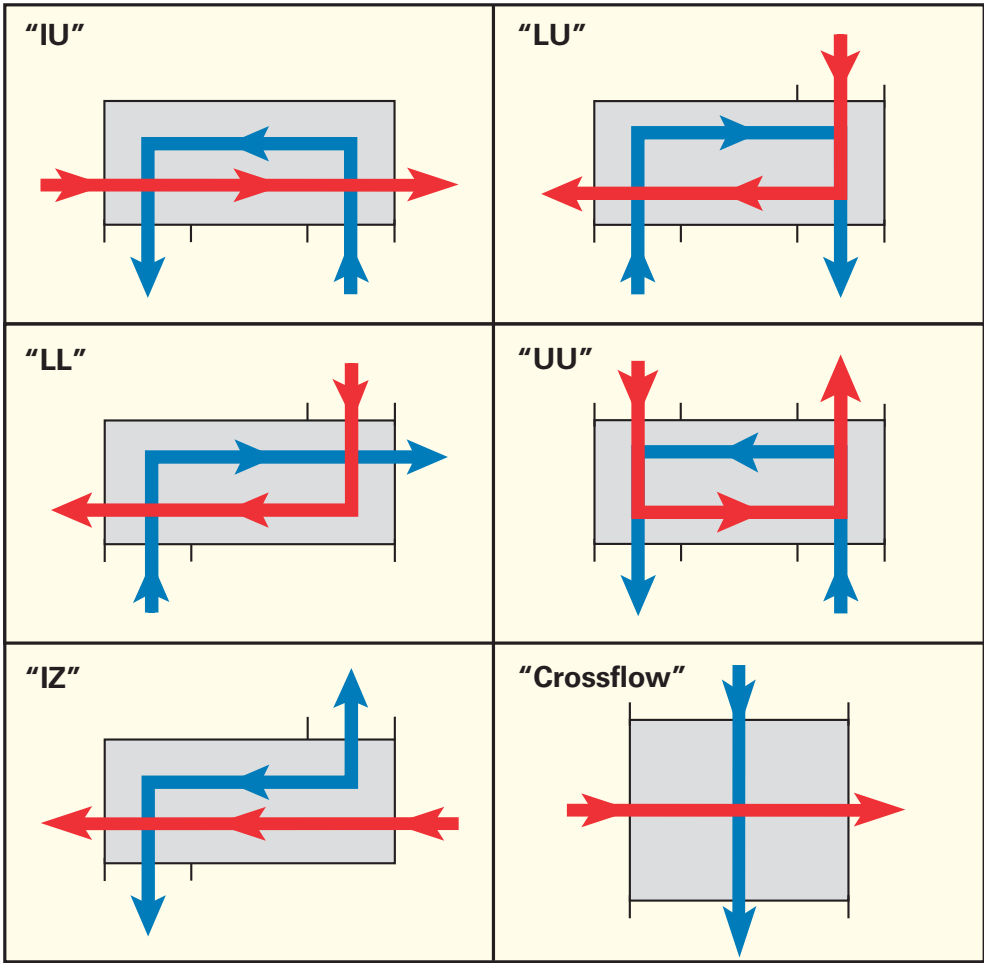
### **Features and Options**

- 309 stainless steel construction for applications up to 1500°F (815°C).
- Staggered and inline dimple patterns are available in 0.5 inch (13 mm) or 0.375 inch (10 mm ) plate spacing.
- Robust, all welded construction by AWS qualified welders under the supervision of an in-house CWI Weld Inspector.
- Fully wrapped inner and outer case with internal expansion joints.
- 6 customizable flow configurations.
- 4 inch thick internal high temperature fiber insulation.
- Floating core design allows for thermal expansion.

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### Flow Configuration Options



### Dimple Plate Design

A dimple plate heat exchanger is often specified for recovering energy from an industrial exhaust with temperatures up to 1500°F (815°C). The dimple plate design can be used for applications where the flows may include some particulate.



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