

Dellestraat 20 3560 Lummen Belgium http://eci.bosal.com eci.info@bosal.com

Bosal P5 thin walled exchangers for 400 – 1000°C / 750 – 1832°F

BOSAL Energy offers welded, compact plate heat exchangers for high temperature applications. The heat exchanger line is modular, and is available in high-end stainless steel or Inconel. They are highly effective and are suitable for high temperature (up to 1,000°C/ 1,832°F) with limited Cr evaporation and metal dusting.

Application

Suitable for a wide range of applications, such as:

- Fuel cell systems (SOFC, PEMFC, MCFC)
- Chemical Processes
- · Gas turbines
- · Micro turbines
- Stirling engines
- Internal combustion engines

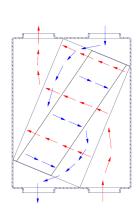
Benefits

- Compact,
- · Easy to install
- Designed for >40,000 field operating hours
- Inconel version for optimal chemical resistance
- Catalytic coating available for combined heat exchange and steam reforming

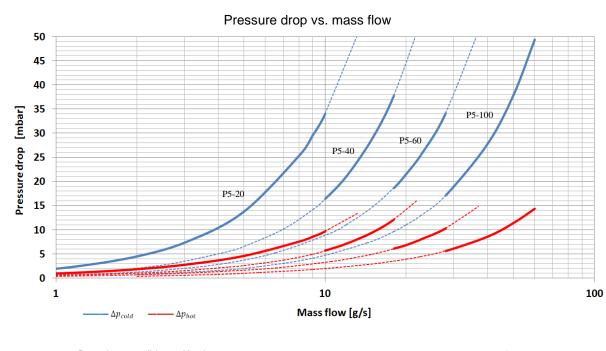
Design

- Secured quality with robotized welding (Laser, TIG, SP-Mag)
- Validation tested using highly sophisticated infrastructure
- · Manufacturing and process engineering expertise





Schematics of the hot and cold flow direction



Boundary conditions: Air-air, $\dot{m}_{cold} = \dot{m}_{hot}$, $T_{cold_{in}} = 20 \,^{\circ}C$, $T_{hot_{in}} = 800 \,^{\circ}C$, $p_{cold} = p_{hot} = 1 \, bar(a)$



Dellestraat 20 3560 Lummen Belgium http://eci.bosal.com eci.info@bosal.com

