

SIGMASHELL all-welded plate and shell heat exchangers.

API Heat Transfer's Schmidt SIGMASHELL all-welded plate and shell heat exchangers offer a unique combination of the ruggedness and high pressure capability of a shell and tube with the compactness and high thermal efficiency of a plate heat exchanger.

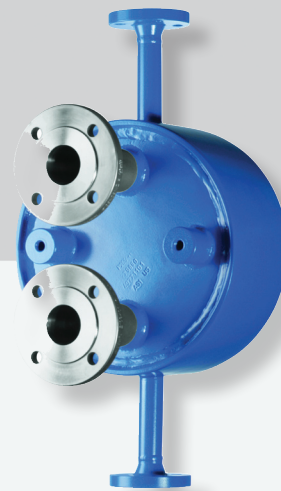
Features and benefits:

- Cylindrical shell is most advantageous design for handling high pressure applications
- High thermal efficiency and surface density result in a compact, lighter weight design which minimizes volumetric hold-up
- Solutions to specific performance requirements can be optimized with various flow arrangements, plate circuits, pass arrangements and three plate corrugation patterns (H - high, L - low, G - gas)
- Shells can be all-welded providing a gasket-free design, or with accessible for inspection and cleaning
- Larger shell-side connections are available for condensing applications

The Schmidt SIGMASHELL is ideal for transferring heat in liquids, vapors and gases found in many industry sectors including chemical, petrochemical, pharmaceutical, alternate energy, power, steel mills and coking plants. Its tremendous design flexibility allows API Heat Transfer engineers to customize a solution specific to your application.

Our Schmidt SIGMASHELL is a laser-welded design providing greater cross sectional weld area at minimum heat input resulting in minimal changes to material microstructure. Its smaller weld pool volume reduces the risk of sink holes and pores during solidification which can be starting points for corrosion. Also, our laser-welding process is not as susceptible to failures along the circumferential weld seams. These advantages result in plate packs with a higher degree of integrity and a longer life cycle.

Schmidt® | Plate & Thermal Systems



To learn more about this product, contact your API Heat Transfer sales representative, email sales@apiheattransfer.com, or visit apiheattransfer.com.

Technical specifications.

Operating pressure:

- Full vacuum to 150 barg (2,175 psi)

Operating temperature:

- -200°C to 550°C (-328°F to 1,022°F)

Heat transfer surface:

- 316 s/s, titanium, hastelloy plates available
- Surface areas up to 700m² (7,535ft²)

Shell diameter range:

- 360mm to 1,400mm (14 inch to 55 inch)

Connection sizes:

- Shell: DN25 to DN600 (1 inch to 24 inch)
- Plate: DN50 to DN300 (2 inch to 12 inch)

Codes:

- ASME, PED, CRN