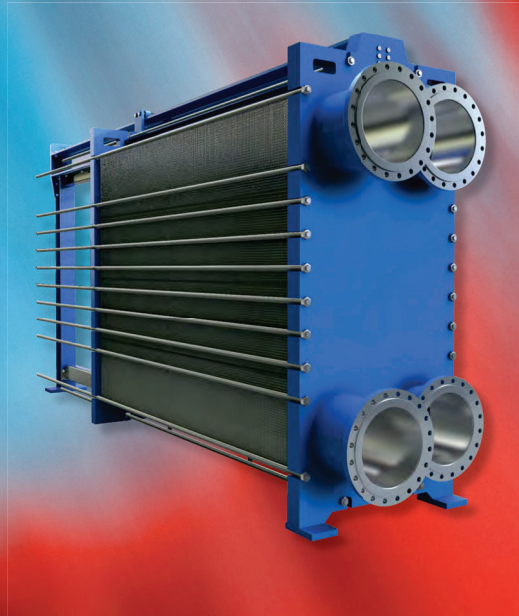
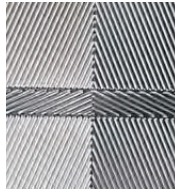


SCHMIDT® GASKETED PLATE HEAT EXCHANGERS



Thermal Plate Options



X SERIES HIGH PERFORMANCE PLATES

- Suitable for industrial and HVAC applications with clean, homogeneous, solid-free liquids.
- Thin film plates with corrugation depths between 2.0 and 3.0 mm for high thermal performance.
- Hard and soft plate corrugation patterns in the herringbone design to provide the most economic thermal solution for each application.
- Plates can be equipped with either the SIGMAFIX adhesive-free gasket system or with glued high performance gaskets.



7 SERIES UNIVERSAL PLATES

- Suitable for industrial, HVAC and liquid food applications.
- Hard and soft plate corrugation patterns designed to provide the most economic thermal solution for each application.
- Corrugation depths vary between 2.5 and 4.0 mm.
- Plates can be equipped with either the SIGMAFIX adhesive-free gasket system or with glued high performance gaskets.



2 SERIES SPECIALIZED FREE FLOW PLATES

- For industrial and food applications with viscous, fibrous or pulpy liquids, e.g., for pasteurization of beverages and pulpy products.
- Free-flow plates with a corrugation depth between 4.5 and 5.5 mm.
- Wide range of plate and gasket materials.



SEMI-WELDED PLATES

- Combines the high thermal efficiency, compact design, and low volumetric liquid hold-up of a plate heat exchanger with the leak prevention of a shell and tube.
- Ideal for ammonia applications.

Plate Material Options

304/304L	Incoloy 825	Nickel	Titanium
316/316L	Inconel	SMO 254	Titanium-Pd
Hastelloy	Monel	Tantalum	Others—consult factory

Advantages – Features at a Glance

Heat Transfer Performance

The unique designs of our thermal plates produce high heat transfer coefficients for a given application, resulting in lower surface area and lower capital cost.

Compact Design

Plate heat exchangers contain large heat exchanging surfaces in a very compact, space-saving frame. This results in a much smaller space requirement and lower weight.

Versatility

Plates are formed in a wide variety of patterns and materials to meet your heat transfer needs.

Peak Efficiency

With high heat transfer coefficients and a true counter-current flow path, our plate heat exchangers can cool hot fluids to within one degree of the cold fluid making heat recovery in excess of 96% technically and economically possible.

Minimal Fouling

Fouling of the heat transfer surfaces of the plate heat exchanger is extraordinarily low. The high induced turbulence yields a self-cleaning effect, which minimizes fouling.

Easy Maintenance

Units can be cleaned without dismantling by clean-in-place (CIP) systems, by reverse flow cleaning or by addition of suitable cleaning fluids.

Plate removal is easily accomplished by releasing the tightening bolts that compress all of the heat transfer plates.

Lower Liquid Volume

Since the gap between plates is small, a plate heat exchanger contains only low quantities of process fluids, reducing cost due to lower volume requirements.

Expandable

Plate arrangement can be changed and plates can be added or removed. It is possible to install several sections in one frame and permit several process steps in a single unit.

Reliability

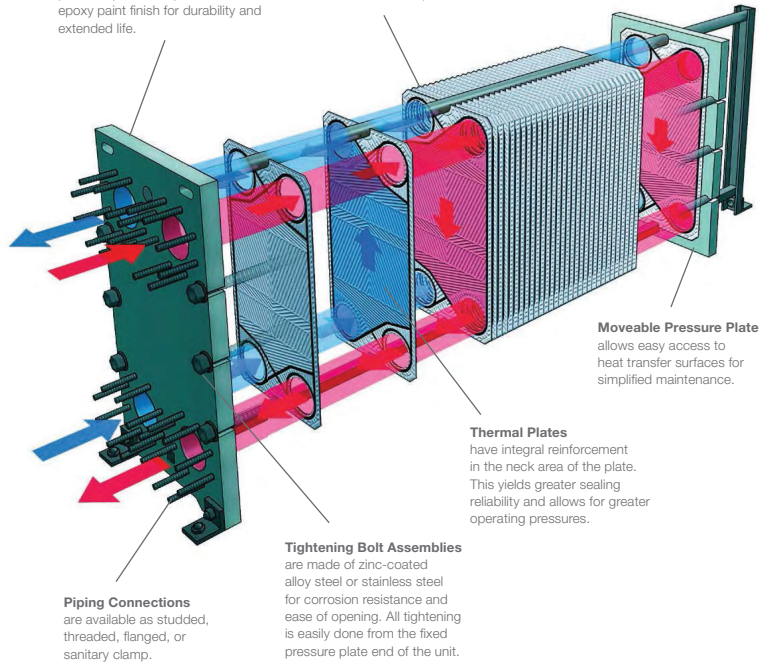
The unique design of our plates allows for optimum alignment during assembly for greatest sealing capabilities.

Pressure Retaining Covers

are designed in accordance with ASME code. These plates are designed so no external reinforcing is required. Steel pressure plates are provided with an epoxy paint finish for durability and extended life.

Elastomer Gaskets

can be either mechanically fixed (adhesive-free) or glued to the heat transfer plate.



Moveable Pressure Plate

allows easy access to heat transfer surfaces for simplified maintenance.

Thermal Plates

have integral reinforcement in the neck area of the plate. This yields greater sealing reliability and allows for greater operating pressures.

Tightening Bolt Assemblies

are made of zinc-coated alloy steel or stainless steel for corrosion resistance and ease of opening. All tightening is easily done from the fixed pressure plate end of the unit.

Piping Connections

are available as studded, threaded, flanged, or sanitary clamp.