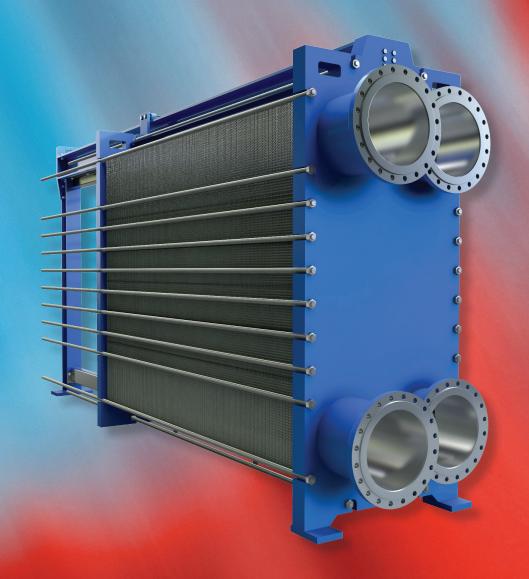


# SCHMIDT<sup>®</sup> SIGMA PLATE HEAT EXCHANGERS





With more than 40 variants, the Schmidt<sup>®</sup> SIGMA plate heat exchanger has proven itself more than 100,000 times in practically all applications and under the harshest operating conditions—from vacuums to 25-bar operating pressure and temperatures from -30 °C to 250 °C.

### **Markets and applications**

Our long-standing experience in sophisticated applications allows us to provide our clients with custom-tailored, costeffective solutions. Our SIGMA plate heat exchangers offer industry leading solutions for a variety of thermal process applications in practically any market.

## **Markets Served:**

- Automotive Industry
- Beverage IndustryChemical and
  - Petrochemical Industries
- Data Centers
- Food Industry
- HVAC
- Industrial
- Marine and Offshore
- Metal Processing
- Pharmacy and Life Science
- Power Generation
- Pulp & Paper Industry
- Refrigeration Technology
- Renewable Energies
- Steel Mills and Cooking Plants
- Semiconductors and Integrated Chip Manufacturing















# Modular components of SIGMA plate heat exchangers

APPLICATION RANGE	
Operating pressure	up to 25 bar for standard units
Operating temperature	up to 170 °C for standard units

### **PLATES**

higher values on request

### GASKETS

Materials	Elastomers (nitrile, EPDM, FKM / Viton <sup>®</sup> and others) PTFE-enveloped elastomers (SIGMA <b>COAT</b> ), Aramid fibers, materials for industrial and foodstuff applications.
Fixing	Gasketed plates: - with mechanically fixed gaskets (SIGMA <b>FIX</b> ) - with glued gaskets Semi-weldedmodules (SIGMA <b>DUAL</b> ): - with mechanically fixed gaskets (SIGMA <b>FIX</b> ) - with glued gaskets

### **OPTIONAL ACCESSORIES**

- Insulation
- Tie rod protection
- Inline-strainer and automatic filter

# **Plate Corrugation Patterns**

### **H-CORRUGATION**

- Fish bone plate profile
- Highest heat transfer coefficients



### **Y-CORRUGATION**

- Patented fish bone corrugation pattern
- Increased heat transfer at lowest pressure loss



Materials

AISI 304, AISI 316L, AISI 316Ti, alloy 926, AISI 904L, SMO 254®, nickel, nickel alloys, titanium grade 1, titanium grade 11

#### **PRESSURE FRAMES** Carbon steel, painted Materials Carbon steel, stainless steel-cladded Stainless steel, solid AD 2000-Merkblatt, ASME Sec. VIII Div. 1, GL, Codes (PED) ABS. DNV and others Studded bolts acc. to DIN 2501, EN 1092-1, ANSI Flanges acc. to DIN, EN 1092-1, ANSI Connections Threaded connections Aseptic and foodstuff connections

# **W-CORRUGATION**

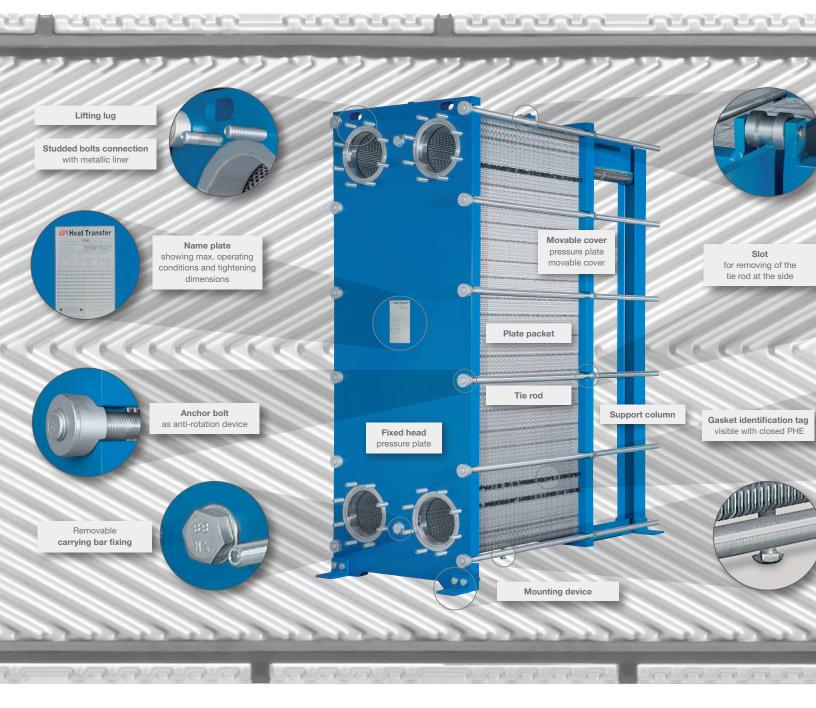
- Fish bone plate profile
- Minimized pressure loss at optimized heat transfer

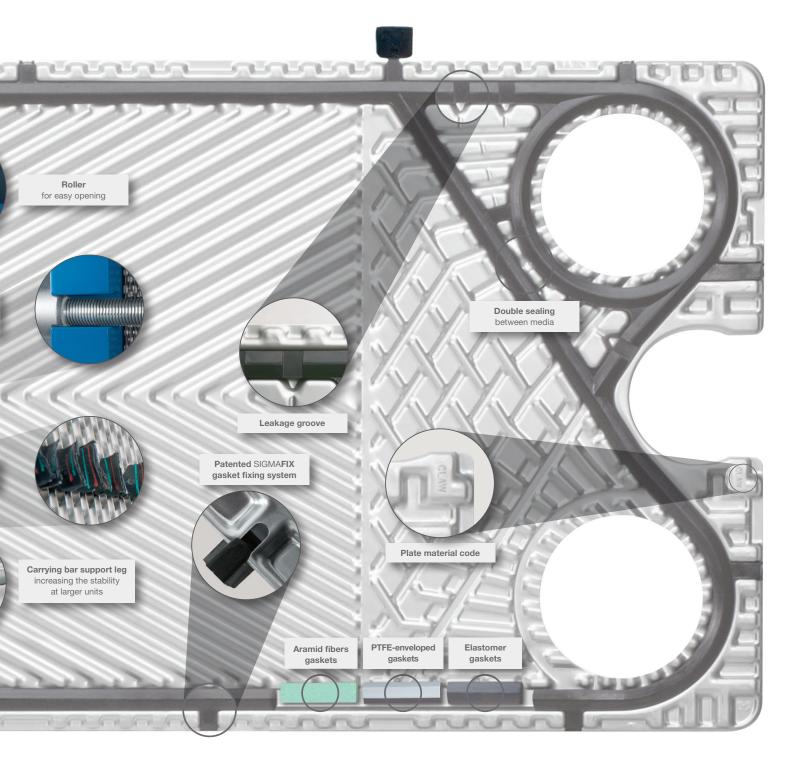


### **F-CORRUGATION**

Free flow plate profile with some stamped spacers

















API Heat Transfer, a family of high-performance brands 🗸

### High-performance heat transfer.

It's who we are and what we do. It's part of our 140-year heritage designing and delivering world-class heat transfer products for nearly every industry. It's bolstered by our worldwide network of manufacturing facilities that provide sales, service, and support. And it's ingrained in a process that has helped customers around the world for nearly a century and a half.

When you work with us, you'll find the performance of our technologies sets the bar for heat transfer products, and our relentless drive to find and create custom heat transfer solutions to meet any industry challenge sets us apart.



For more information about our heat transfer products, contact our API Heat Transfer sales representative or visit **apiheattransfer.com** or **apiheattransfer.de** 

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