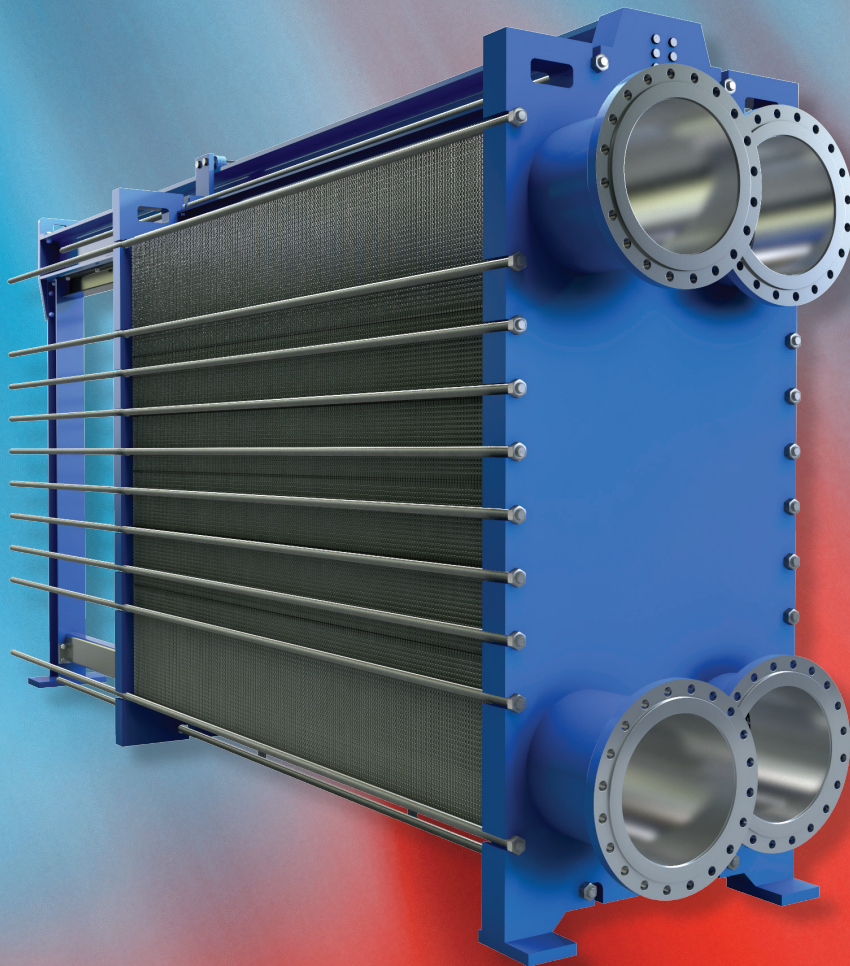


SCHMIDT® SIGMA PLATE HEAT EXCHANGERS



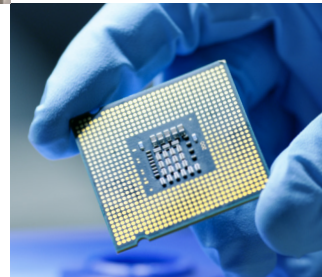
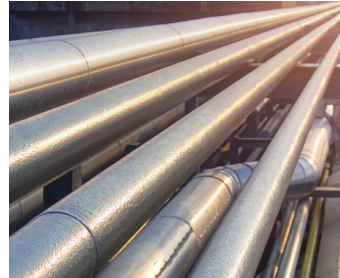
With more than 40 variants, the Schmidt® SIGMA plate heat exchanger has proven itself more than 100,000 times in practically all applications and under the harshest operating conditions—from vacuums to 25-bar operating pressure

Markets and applications

Our long-standing experience in sophisticated applications allows us to provide our clients with custom-tailored, cost-effective 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 Industry
- Chemical 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



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

GASKETS	
Materials	Elastomers (nitrile, EPDM, FKM / Viton® and others) PTFE-enveloped elastomers (SIGMACOAT), Aramid fibers, materials for industrial and foodstuff applications.
Fixing	Gasketed plates: - with mechanically fixed gaskets (SIGMAFIX) - with glued gaskets Semi-welded modules (SIGMADUAL): - with mechanically fixed gaskets (SIGMAFIX) - with glued gaskets

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

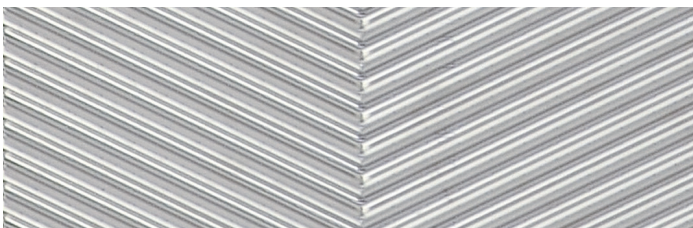
OPTIONAL ACCESSORIES

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

Plate Corrugation Patterns

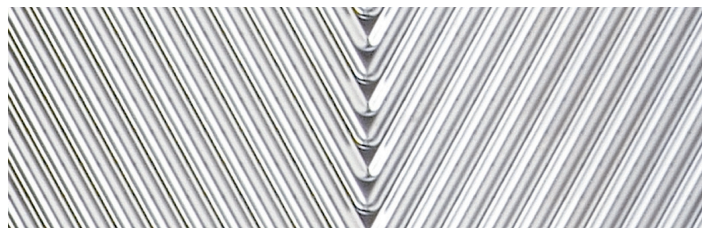
H-CORRUGATION

- Fish bone plate profile



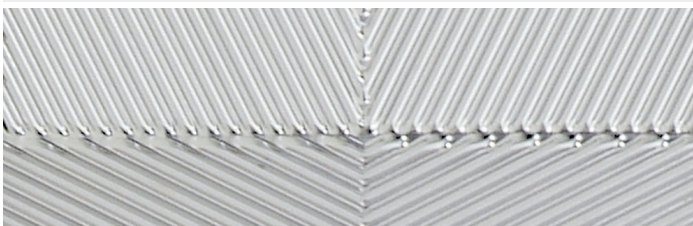
W-CORRUGATION

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



Y-CORRUGATION

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



F-CORRUGATION

- Free flow plate profile with some stamped spacers



Lifting lug

Studded bolts connection
with metallic liner

API Heat Transfer

Name plate
showing max. operating
conditions and tightening
dimensions

Movable cover
pressure plate
movable cover

Slot
for removing of the
tie rod at the side

Plate packet

Anchor bolt
as anti-rotation device

Tie rod

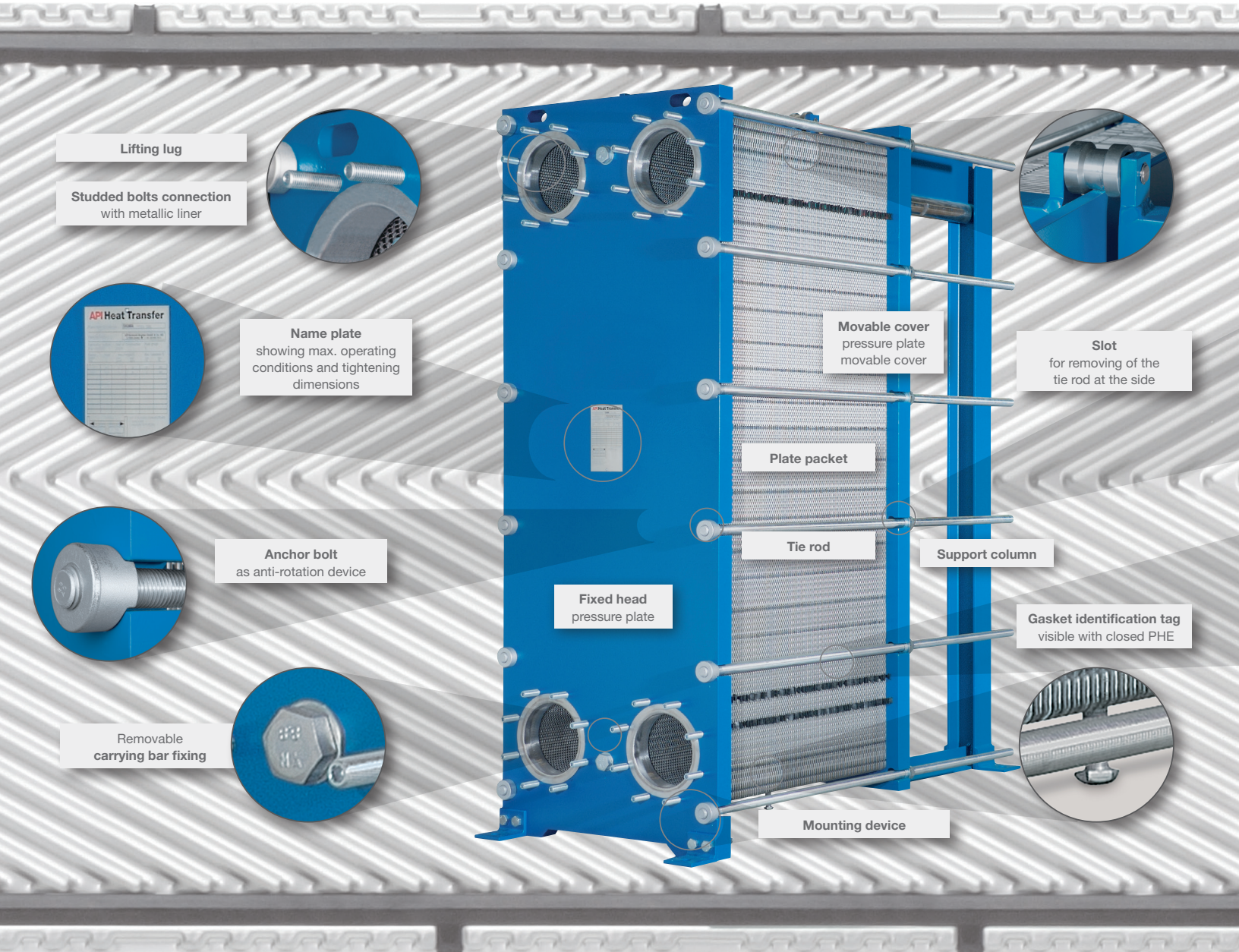
Support column

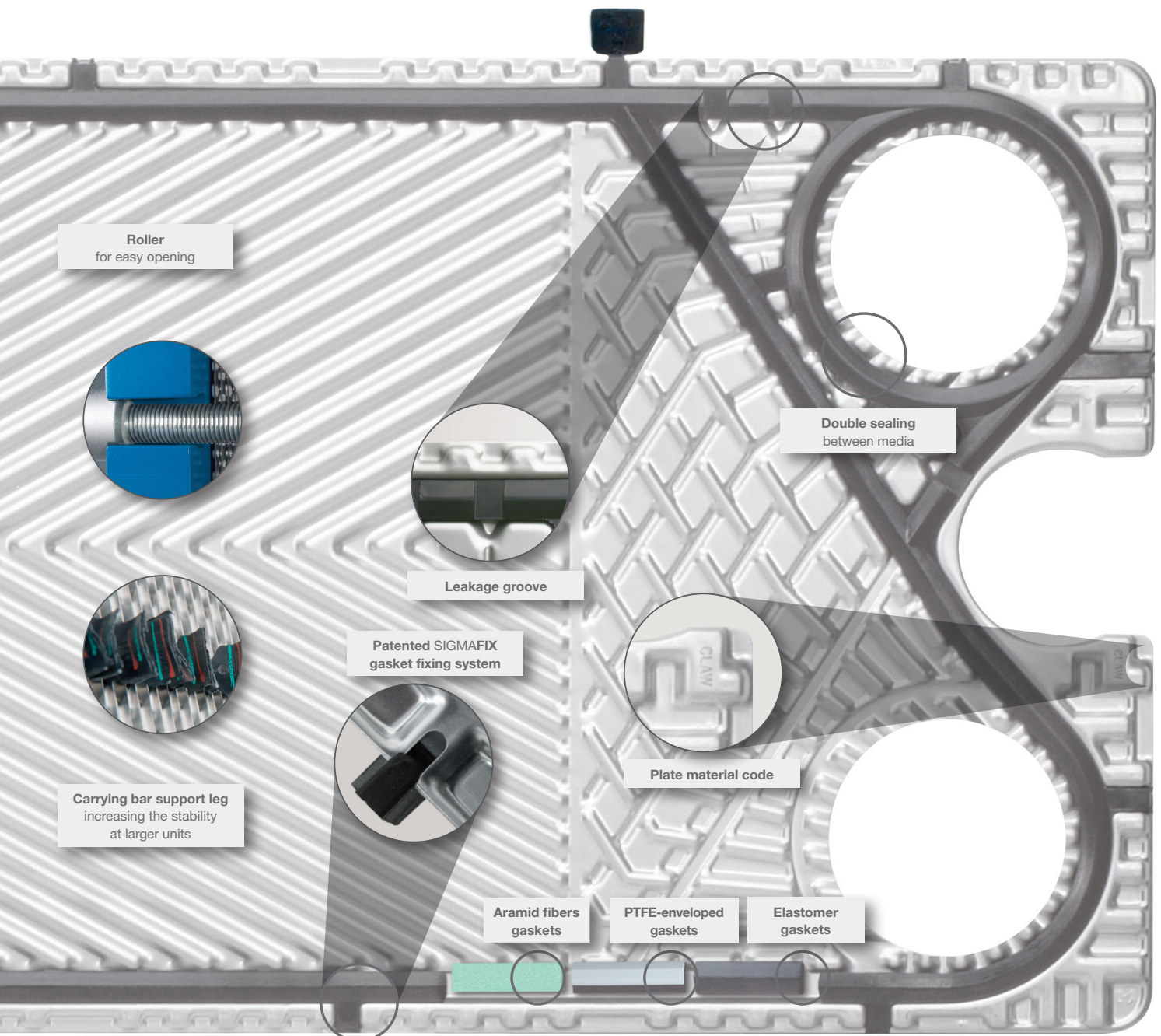
Fixed head
pressure plate

Gasket identification tag
visible with closed PHE

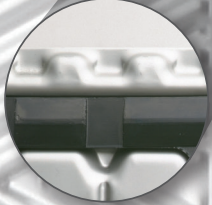
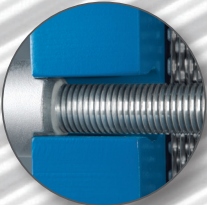
Removable
carrying bar fixing

Mounting device



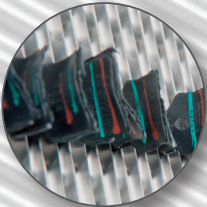


Roller
for easy opening



Leakage groove

Double sealing
between media



Carrying bar support leg
increasing the stability
at larger units

Patented SIGMAFIX
gasket fixing system



Plate material code


Aramid fibers
gaskets

PTFE-enveloped
gaskets

Elastomer
gaskets





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.

See how our performance can improve yours.

Contact your API Heat Transfer sales rep or visit apiheattransfer.com today.

USA

Buffalo Facility

2777 Walden Avenue
Buffalo, NY 14225, USA
+1.716.684.6700

Iron Ridge Facility

1025 Industrial Road
Iron Ridge, WI 53035, USA
+1.920.387.4200

Franklin Facility

4700 Ironwood Drive
Franklin, WI 53132, USA
+1.414.761.4500

Racine Facility

5215 21st Street
Racine, WI 53406, USA
+1.262.554.8330

GERMANY

Bretten Facility

Langenmorgen 4
75015 Bretten, Germany
+49.7252.53.0

Dortmund Facility

Breienbachstrasse 87
44357 Dortmund, Germany
+49.231.9920.119

CHINA

Suzhou Facilities Building 1

156 Qingqiu Street, 3rd District
Suzhou Industrial Park
Suzhou, Jiangsu 215126, China
+86.512.8816.8000

Building 2

126 Qingqiu Street, 3rd District
Suzhou Industrial Park
Suzhou, Jiangsu 215126, China
+86.512.8816.8000

Shanghai

Gubei 1699 Commercial Plaza
Room 905-1
1699 Gubei Road
Minhang District
Shanghai 201103, China
+86. 21.5426.2525

