

API Heat Transfer

...world leaders in heat transfer technology

Introduces our new **Schmidt** all-Titanium Braze Plate Heat Exchanger

API continues to provide leading-edge Heat Transfer Solutions



API Schmidt-Bretten, a division of API Heat Transfer Inc., announces the introduction of our new line of all-Titanium Braze Plate Heat Exchangers, featuring a patent pending titanium-based braze material.

When corrosive fluids need efficient heating or cooling and stainless steel surfaces just don't provide adequate service life, consider the Schmidt all-Titanium Braze Plate Heat Exchanger.

Braze Plate Heat Exchangers are widely accepted as the right choice for many heat transfer requirements. The bonding of highly efficient corrugated fins between thin-wall plates creates tremendous fluid turbulence for superior heat transfer, all in an extremely rugged unitary structure.

Until now, these units were only available in 316 stainless steel or 254SMO with either copper or nickel as the brazing material.

API has taken this proven technology one step further by bringing to market an all-titanium braze plate heat exchanger designed specifically for the harshest applications.

API Heat Transfer has the people, products and solutions for your thermal processing needs.

Benefits of Braze Plate Heat Exchangers

- High thermal efficiency
- Compact, lightweight design
- Low liquid volume within the exchanger
- Rugged construction

Benefits of Titanium

- Superior corrosion resistance
- Higher thermal conductivity than stainless
- Lighter in weight than stainless



Benefits of API's Titanium Braze Plate Heat Exchangers

- Superior heat exchanger enhances value of overall package
- Longer service life with less downtime
- Fewer warranty issues
- Thermal efficiency in a lightweight, rugged, compact heat exchanger

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Brazed Plate Heat Exchanger Specifications

Typical Applications

Marine Engine Oil Cooling
 Marine Engine Jacket Water Cooling
 Spa and Swimming Pool Heat Pumps
 Refrigerant Evaporating
 Refrigerant Condensing

Materials of Construction

Thermal Plates Titanium
 Cover Plates Titanium
 Connections Titanium
 Braze Material Proprietary Ti Alloy
 (patent pending)

Capacities

Model SBT25 30 GPM (6.8 m³/h)
 Model SBT50 115 GPM (26.1 m³/h)

Maximum Heat Transfer Surface

Model SBT25 22 ft² (2.0 m²)
 Model SBT50 71 ft² (6.6 m²)

Operating Conditions

Maximum Pressure..... 450 psi (31 bar)
 Maximum Temperature 450 °F (232.2 °C)
 Minimum Temperature -100 °F (-73.3 °C)

Connection Types & Sizes

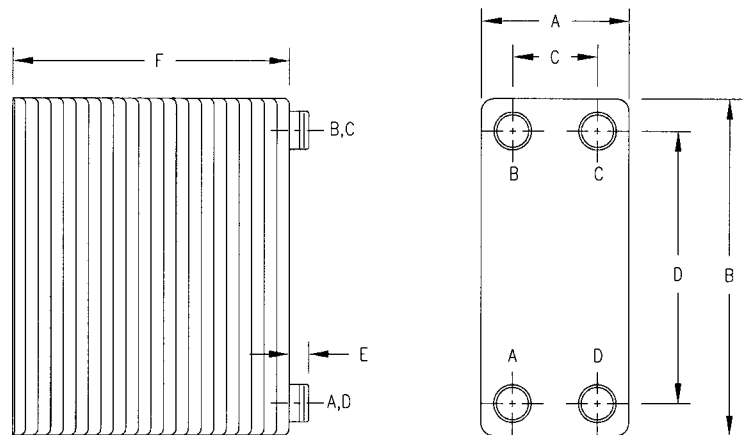
Model SBT25 3/4" NPT
 Model SBT50 1-1/2" NPT

Approvals

UL pending



Titanium Brazed Plate Heat Exchanger Dimensions



API Model Type	Dimensions in Inches (millimeters)						Max Number of Plates	Surface sq. ft. (sq. m.)	Max Flow gpm (m ³ /h)	Dry Weight lbs (kg)
	A	B	C	D	E	F				
SBT25	3.54 (90)	12.25 (311)	1.81 (46)	10.51 (267)	0.94 (24)	0.142 + 0.134 x N (3.6 + 3.4 x N)	40	0.57 x (N-2) (0.053 x (N-2))	30 (6.8)	0.62 + 0.366 x N (0.28 + 0.166 x N)
SBT50	5.91 (150)	22.83 (580)	3.39 (86)	20.28 (515)	1.06 (27)	0.146 + 0.138 x N (3.7 + 3.5 x N)	40	1.86 x (N-2) (0.173 x (N-2))	115 (26.1)	1.24 + 1.09 x N (0.56 + 0.49 x N)

N = number of total plates

API Heat Transfer

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