



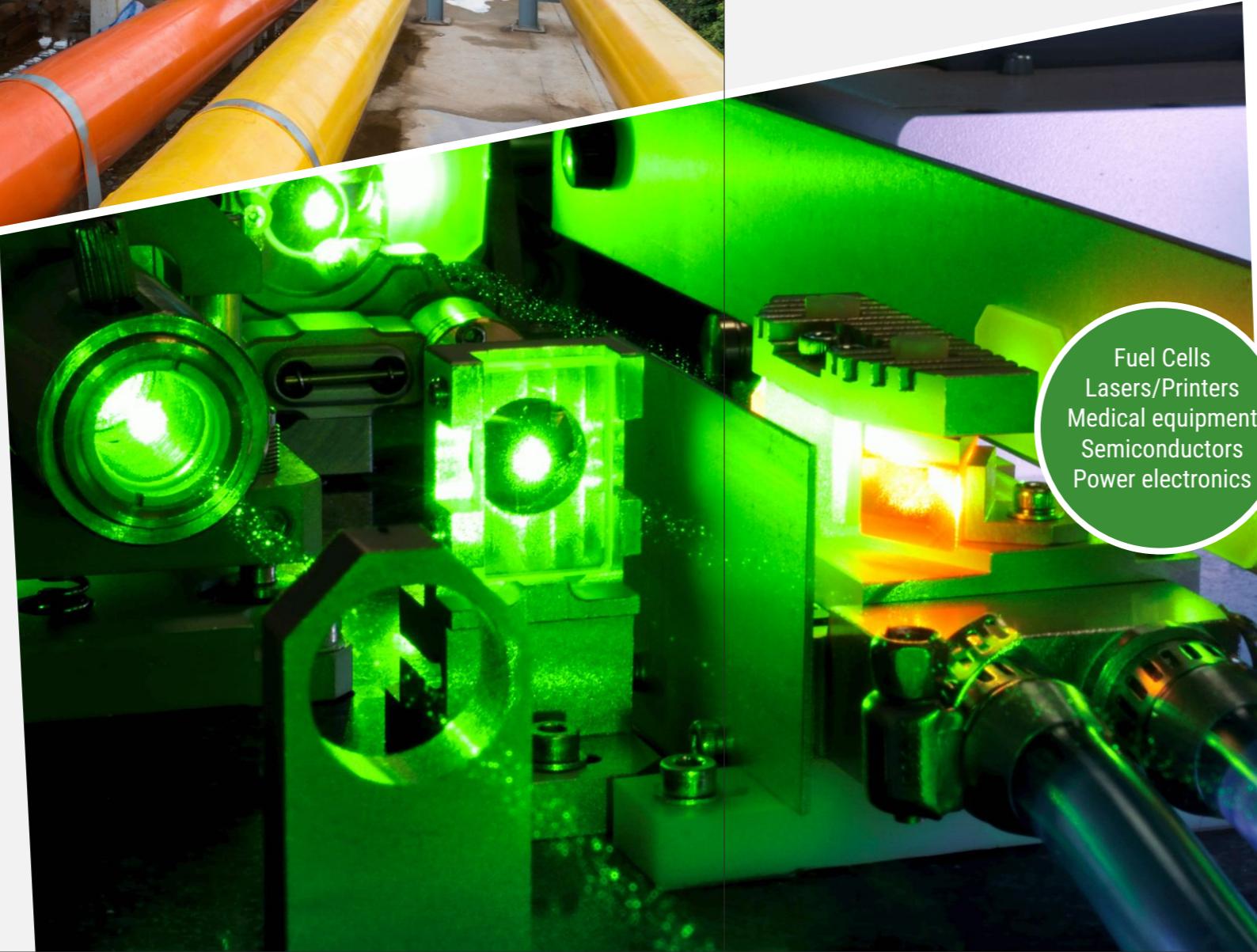
All-Stainless

Durable, compact, and efficient BPHEs
for the most demanding applications



Deionized water

Deionized water is one of the most aggressive solvents known, and can corrode many metals, including copper. At low conductivity levels copper can dissolve into the DI water resulting in contamination and gradual weakening of the brazing joints. With SWEP All-Stainless BPHEs you can be confident that you are eliminating the risk of contamination and copper corrosion and prolonging the lifetime of your system.



Ammonia

Ammonia is aggressive to copper. In systems with ammonia as heat transfer media, traditional copper-brazed BPHEs are at high risk of corrosion leading to system failure. SWEP All-Stainless BPHEs are ideal for preventing copper corrosion and avoiding system failure. The robust construction is suitable for various ammonia applications, including demanding cascade applications.

Best in class for corrosion resistance, leaching, hygiene, and efficiency

SWEP All-Stainless range is the ideal choice for a wide range of industrial and utility applications that impose high demands on corrosion resistance and have a low tolerance for contamination. Our robust and durable stainless steel range is also optimal for high-temperature and high-pressure applications. Their combination of highly efficient heat transfer and compact design makes SWEP All-Stainless BPHEs the perfect solution for many confined spaces. We can also customize this modular product to meet your specific requirements.

Side-stepping corrosion and leaching

SWEP All-Stainless range is especially suitable for systems where the heat exchanger must withstand aggressive media and where contamination must be avoided at all costs.

Stainless steel BPHEs have channel plates made of genuine stainless steel. They are brazed together with an iron-based copper-free filler material that mimics the composition of the plates. The carefully considered composition delivers superior corrosion resistance and makes SWEP All-Stainless range suitable for aggressive media such as ammonia, deionized water, and fluids with a high sulfur content. Being 100% copper-free, our All-Stainless BPHEs are the ideal replacement for traditional copper- and nickel-brazed heat exchangers where leaching must be avoided.

SWEP All-Stainless models combine high resistance to corrosion, low risk of contamination, and high thermal strength in a single BPHE with no compromise on outstanding thermal performance.

Low maintenance – longer lifetime

SWEP BPHEs have no gaskets or loose parts, so they can be cleaned without disassembly. The All-Stainless construction means there is no need for replacements caused by copper corrosion. Furthermore, the copper-free material maintains oil quality and minimizes the need for oil replacement. SWEP All-Stainless range keeps maintenance to a minimum, and avoids labor costs and expensive downtime.

Higher efficiency – lower carbon impact

With 100% stainless steel construction and minimal use of raw material in their construction relative to their mechanical strength, the All-Stainless BPHEs are all about increasing efficiency. SWEP All-Stainless range combines robustness and durability



Biogas

Drying and compressing biogas impose high demands on components such as heat exchangers because of the highly corrosive sulfur content. SWEP copper-free All-Stainless BPHEs are ideal for these applications because they combine highly efficient heat transfer with excellent corrosion resistance and a small footprint.

Oils

With copper-brazed units in oil cooling systems, copper may leach into the oil. This may impair the oil's lubrication and cooling properties, resulting in a requirement for regular oil changes, which is time-consuming and costly.

When you choose SWEP All-Stainless products, you get a compact solution that delivers extremely efficient heat transfer while ensuring minimal oil degradation, thanks to their copper-free material.



Pharmaceuticals

All-Stainless heat exchangers are preferred for several applications where contamination from the heat exchanger material must be kept low and where hygiene is important, for example in pharmaceuticals, drinking water, and CBD extraction industries.

Our All-Stainless BPHEs have proven performance when contamination by both copper and nickel must be avoided.

with highly efficient heat transfer in a compact unit. Furthermore, the material in SWEP All-Stainless products can be more easily recycled, which helps reduce the carbon footprint of heat transfer.

Customized flexibility

We pride ourselves on our application knowledge and an ever-evolving product range. This is only possible by maintaining very close connections with our customers,

in which we listen, learn, guide, and adapt to changes and demands.

Our modular concept and flexible design allow us to customize both the plate and the brazing materials to achieve the best possible fit to the specification for your application. And to deliver with short lead and installation times.

All-Stainless advantages

- Highly efficient heat transfer with compact brazed plate technology
- Exceptional corrosion resistance
- Low contamination tendency
- Robust design withstanding high pressures and temperatures
- Compact design fits into small spaces
- Low carbon footprint with efficient use of material
- Low on maintenance and cleaning yielding longer lifetime
- Customized flexibility with modular concept
- Low refrigerant charge leading to lower environmental impact

Safeguarding quality and performance

We test our All-Stainless range extensively to ensure optimal performance, quality, and durability at all times.

Our testing scheme includes thermal and hydraulic performance, corrosion and leaching, mechanical and thermal fatigue, and pressure and leakage testing to certify the very best performance, lifetime and efficiency of our All-Stainless range.

All-Stainless product range



BPHE Model	B5T	B10TS	B80S	B85S	B221	B222
Plate type	H	H	H	H	H/L	H/L
Dimension	mm inch	193x75 7.59x2.95	289x119 11.3x4.68	526x119 20.7x4.68	526x119 20.7x4.68	529x271 20.8x10.6
Port size	mm inch	16 0.630	24 0.945	33 1.30	33 1.30	42 1.65
Pressure @135°C	bar psi	31/31 450/450	31/31 450/450	27/19 392/276	31/31 450/450	40/40 580/580
Max temperature	°C °F	350 662	350 662	350 662	350 662	200 392
Max number of plates (NoP)		60	140	140	140	150

Challenge efficiency

At SWEP, we believe our future rests on giving more energy than we take – from our planet and our people. That's why we pour our energy into leading the conversion to sustainable energy usage in heat transfer. Over three decades, the SWEP brand has become synonymous with challenging efficiency.

SWEP is a world-leading supplier of brazed plate heat exchangers for HVAC and industrial applications. With over 1,000 dedicated employees, carefully selected business partners, global presence with production, sales and heartfelt service, we bring a level of expertise and customer intimacy that's redefining competitive edge for a more sustainable future. SWEP is part of Dover Corporation, a multi-billion-dollar, diversified manufacturer of a wide range of proprietary products and components for industrial and commercial use.