

# SWEP AsyMatrix™ plate design

Maximizing system performance by delivering optimal heat transfer at low pressure drop

Achieving optimal heat transfer efficiency with symmetric plate design is a compromise between thermal performance and pressure drop.

Improvements in thermal efficiency will always be at the expense of increased pressure drop. Aspirations to lower energy consumption and climate concerns are key drivers for solutions that can tackle this compromise. The answer from SWEP is spelled AsyMatrix™.

Asymmetric plate design technology gives an optimized channel geometry specially designed for applications with pressure drop limitations. The result is optimized efficiency with decreased pressure drop at the secondary side while maintaining heat flux levels (OHTC). This will ensure energy efficient operation in a variation of demanding heat transfer applications.

Applying SWEP AsyMatrix™ technology in a heat exchanger will result in a highly efficient and energy saving solution in a compact unit with minimal physical footprint in the system design. The efficient utilization of material and the low hold-up volume on the refrigerant side presents a safe and environmentally sustainable product.

SWEP is continuously expanding the portfolio of asymmetric plate designs with new and enhanced

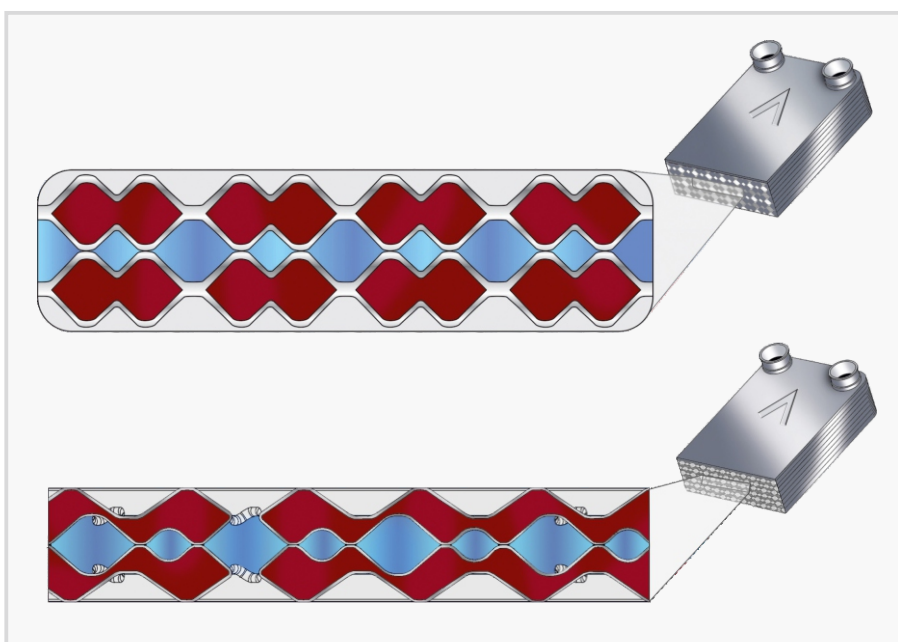
developments that deliver flexible solutions for a variation of applications with demanding requirements.

## SWEP AsyMatrix™ advantages

- Lower pressure drop on the secondary side
- Reduced hold-up volume on refrigerant side
- Improved or maintained heat transfer while lowering the pressure drop on secondary side
- Reduced product dimension

## SWEP AsyMatrix™ benefits

- Lower energy consumption
- Lower total cost of ownership Optimizing energy usage of pump and system efficiency
- Increased system design flexibility
- Minimized physical footprint of the system
- Enhanced safety by low refrigeration charge
- Minimized carbon emissions by optimized use of material and refrigerant



SWEP keeps expanding the portfolio of asymmetric plate designs with new and enhanced developments.