AsyMatrix®

powered by SWEP

AsyMatrix® is SWEP's innovative asymmetric BPHE technology.

The truly asymmetric plate geometry combines excellent heat transfer with low pressure loss to maximize system performance.

With AsyMatrix®, SWEP has once again revolutionized the BPHE.

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Higher performance,
# Lower pressure-loss, Smaller system,

Symmetric BPHE's

Brazed Plate Heat Exchangers (BPHE) offer the best performance to size ratio of heat transfer technologies available today. The self-supporting plate geometry of a BPHE delivers outstanding performance with only a fraction of the weight, footprint and internal volume compared to older technologies like shell and tube, coaxial and PHE-type heat exchangers. However, the plate design of a symmetric BPHE is always a compromise, where thermal performance is balanced against pressure loss of fluids.Improving heat transfer too much will result in excessive pressure loss, which reduces the system's performance.
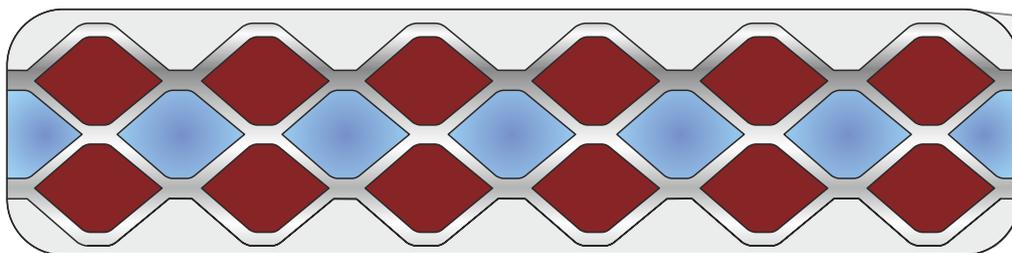
AsyMatrix ® BPHE's

With its truly asymmetric plate geometry, SWEP has once again revolutionized the Brazed Plate Heat Exchanger. The asymmetric plate pattern makes it possible to optimize the channel geometry according to the application area, and thereby combine excellent heat transfer with a low pressure drop and a reduced refrigerant charge. The result is a powerful improvement of system efficiency and sustainability, taking into consideration both thermal and hydraulic performance as well as a reduced refrigernat charge. With AsyMatrix ®, there is no need to compromise.
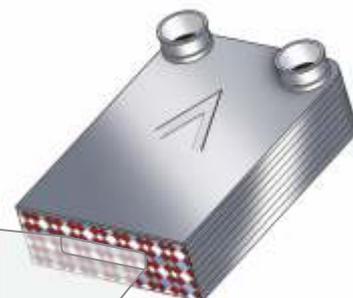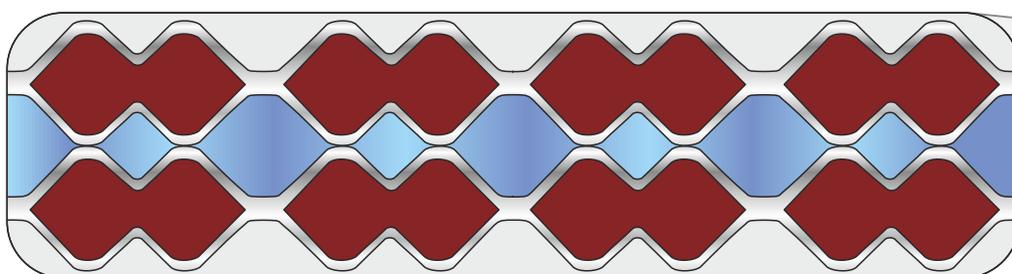
Benefits

SWEP's AsyMatrix ® BPHE's offer several advantages over heat exchangers that use symmetric plate technology, including:

Improved heat transfer:	Increases the system's thermal performance
Lower pressure loss:	Reduces energy consumption of the pump
Reduced hold-up volume:	Contributes to a more sustainable planet and reduces refrigerant costs.
Reduced dimensions:	The smaller dimension allows a more compact system solution.

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