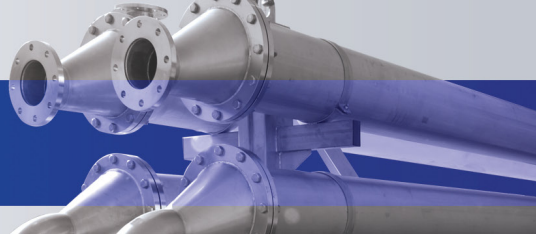
PIPE HEAT EXCHANGER



Applications

The B&P pipe heat exchanger is particularly suited to the thermal treatment of products with a high viscosity range as well as products containing solids, pulps or fibrous products.
Our systems are designed to be installed as part of heating, cooling and aseptic systems and are used in the fruit juice, milk and brewing industries.

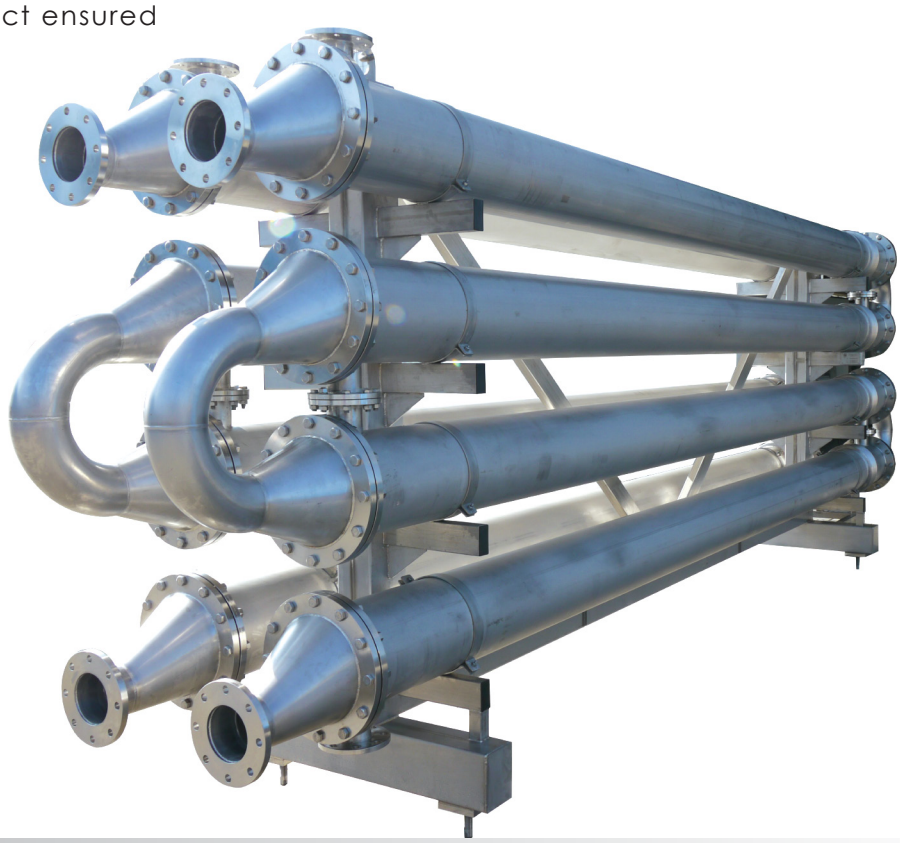
Operation principle

The B&P pipe heat exchanger is a pipe-in-pipe system. The operating medium – hot water – is prepared in a hot water pre-heater using steam. A circulating pump is used to pump it into the external pipe of the exchanger. The product flows in the opposite direction through the internal pipe of the heat exchanger module and is heated up to the set temperature by the hot water. Once the water has dissipated its heat, it flows back to the circulating pump to be reheated.

Tailored to suit every efficiency range and the product's physical properties, our models are sure to include the optimal solution for your specific needs. We also offer individual solutions for specific applications.

Advantages

- Gentle heating of the product ensured by short retention time
- High efficiency
- Low space requirements
- Convenient maintenance



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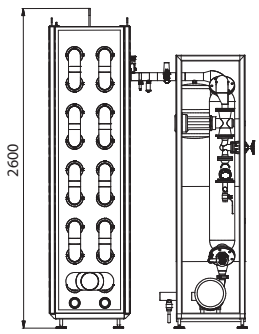
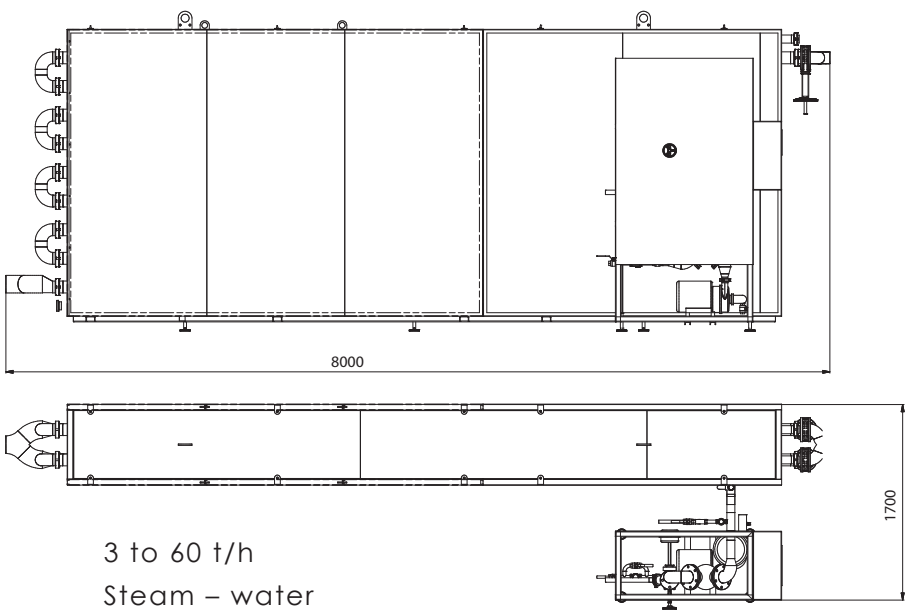
Technical data





Efficiency	3 to 60 t/h
Heating system	Steam – water
(Δ t) max. temperature increase	Δ 25-50°C
Circulating pump	3-7 kW
Steam pressure	Up to 4 bar
Air pressure	6-8 bar
Steam consumption	Approx. 2 t/h (apple mash: 30t/h, Δ 20°C, at 2 bar)
Dimensions (30 t/h system)	Approx. 8x0.9x2.6 m
Materials	Stainless steel AISI 304/optional AISI 316 L

Deliverables

- Heat exchanger with double pipe system
- Hot water station
- Hot water circulating pump
- Piping material
- Steam control valve
- Safety valve
- Control cabinet with integrated control system

Options

- Insulation: mineral wool, Armaflex, insulation plates (full insulation)

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