

HEAT EXCHANGERS

Description

The function of the heat exchanger is to exchange energy between two media. Our tubular heat exchanger can manage a higher pressure (on the secondary side) than a Plate Heat Exchanger (PHE) but the biggest advantage is the possibility to include supplementary heat in the same unit and still keep its compact format. This can offer possibilities for room saving application design.

Our heat exchangers are often used in the process industries for electrical process heating. Unlike heat exchangers which use recovered heat from other parts of a manufacturing process, our process heaters employ electrical elements which can produce a significantly more compact solution. Heat exchangers are produced with welded and seamless tubes from our standard range of products according to customer specification.



Technical specification

Material	Stainless steel acc. to customer specification
Dimension	Same size range as traditional PHE e.g. Ø 130mm, L: 350mm
Assembly	With standard connections
Connections	Cables, screws, tab terminals acc. to customer specification
Design	Tubular design
Others	Designed acc/to plumbing standards

Other cables and fixings available - please enquire.

Fields of Application

- Process heating
- Solar heating
- Food & beverage
- Heat pumps
- Plastics industry
- SPA baths

Benefits

- Optimised plate pattern for maximum heat transfer
- Asymmetric design allows for decreased refrigerant amount in heat pumps
- Compact size combined with high strength
- Easy to install with tailor-made connections
- Couple with thyristor control for greater efficiency

Flexibility is also maximised as there is no reliance on secondary process heat and so instances such as cold start do not have to be given contingency plans.

Our sister company Loyal has manufactured copper brazed stainless steel plate heat exchangers for over 10 years. The HPA-52A is especially designed as a condenser or an evaporator for a heat pump. The asymmetric design increases the overall performance while simultaneously allowing a 30% reduction in refrigerant amount. Tests in Loyal's heat pump laboratory where we simulate a ground source heat pump show that Loyal's HPA-52A is one of the best plate heat exchangers on the market.

Our Braude brand manufactures a range of heat exchangers in fluoropolymer materials for use either in tank or external. Amongst the many applications in which these heat exchangers are typically used are acid pickling processes, preflux in galvanising, large scale electroplating, chemical milling.

The exchangers are designed for use with steam, hot water, thermal fluid up to 200°C or chilled water for internal or external use and electric for external use. Please contact us for further information.

U-tube heat exchanger

