



UK EXCHANGERS LTD SPECIALISE IN THE DESIGN AND  
MANUFACTURE OF A WIDE RANGE OF HEAT  
EXCHANGERS FOR INDUSTRIAL, FOOD, DAIRY, HYGIENIC,  
REFRIGERATION, HVAC AND MARINE APPLICATIONS.

[www.uk-exchangers.com](http://www.uk-exchangers.com)

## PLATE HEAT EXCHANGERS

The extensive UK Exchangers range of Plate Heat Exchangers provides compact thermally efficient solutions to your heat transfer requirements.

### GASKETED PLATE HEAT EXCHANGERS

Types of Gasketed Heat Exchangers:

**INDUSTRIAL / MARINE** - Over 25 plate sizes from 0.04m<sup>2</sup> to 2.5m<sup>2</sup>, and connection sizes from 25mm to 500mm, ensure that we offer the most efficient cost effective designs - in a choice of materials including stainless steel and titanium.

**HYGIENIC** - Specifically designed for use in the food, dairy, brewing and pharmaceutical industries.

**DOUBLE WALL** - Designed for use in applications when extra security is required to ensure that the primary and secondary fluids in the exchanger cannot mix in the event of a plate failure.

**WIDE GAP FREE FLOW** - Have flow paths with no metal to metal contact between adjacent plates. This makes them ideal for fluids containing particles, pulp or fibres that would quickly block a conventional Plate Heat Exchanger.



### BRAZED PLATE HEAT EXCHANGERS

Used for liquid to liquid heat transfer: refrigeration evaporators and condensers; liquid heating using steam; and compressed air coolers.

Advantages include: low purchase price, high temperature & pressure rating, compact design, high thermal efficiency.



## SHELL & TUBE HEAT EXCHANGERS

### CONVENTIONAL SHELL & TUBE EXCHANGERS

We can supply Shell and Tube Heat Exchangers manufactured in mild steel and stainless steel. The exchangers are custom designed to suit your applications.

### CORRUGATED TUBE IN TUBE HEAT EXCHANGERS

Tube in Tube Heat Exchangers utilise corrugated tubes which generate turbulence in both media to ensure uniform temperature distribution. This improves the heat transfer co-efficient by up to 60% compared to a conventional smooth tube design.



#### ADVANTAGES:

- Uniform temperature distribution and thermal processing
- Increased run times before cleaning is required due to turbulent flow and reduced fouling
- Up to 60% greater efficiency over a plain tube design, giving rise to much reduced exchanger size
- Low maintenance cost - minimal spares required
- No "dead spots" within the process circuit, thus responds extremely well to CIP

## FINNED TUBE COILS

Our extensive range of Finned Tube Coils are designed for industrial, process and building services applications.

We offer tubes in copper, steel and stainless steel, with fins in aluminium, copper, steel and stainless steel. Frames can be manufactured in galvanised steel, stainless steel and aluminium.

### TYPICAL APPLICATIONS:

- Air conditioning
- Space heating and cooling
- Process drying
- Paint drying ovens
- Heat recovery
- Economisers
- Air cooling in food manufacture
- Solvent recovery



## HEAT EXCHANGER PACKAGED SYSTEMS

We have developed a range of packaged heat exchanger systems, for heating water using either Low Temperature Hot Water (LTHW) or steam as the heating medium.

We also design and manufacture custom built systems to cater for specific customer requirements.

### LTHW TO WATER INSTANT HOT WATER SYSTEMS

Designed to heat domestic hot water using low temperature hot water (LTHW). The unit is ideal for use in hotels, hospitals, schools, sports halls, nursing homes etc.

### STEAM TO WATER PACKAGED SYSTEMS

Designed to heat low temperature hot water, domestic hot water or process water using steam as the heating medium. Can be supplied with either a Plate Heat Exchanger or Shell & Tube Heat Exchanger.

### CUSTOM BUILT SYSTEMS

Packaged heat exchangers can readily be engineered to customer requirements.



## PLATE HEAT EXCHANGER SERVICING & SPARE PARTS

We can chemically clean, dye penetrant test and re-gasket plate packs returned to us.

Return the complete heat exchanger to our factory and we will dismantle, remove, clean and re-gasket the plates then re-assemble and hydrostatically test the exchanger.

If required we can arrange to attend site to remove or install plate packs.

We hold an extensive range of spare plates and gaskets in stock for immediate delivery. We are also able to supply spare gaskets for Plate Heat Exchangers manufactured by most other major companies.

## QUALITY ASSURANCE

Our Quality Management System has been approved by Lloyd's Register Quality Assurance to BS EN ISO 9001: 2000.

PED 97/23/EC certification and marking is carried out on all exchangers, when applicable.



## CONTACT

To contact UK Exchangers, or for further information on any of our products:

### **UK Exchangers Ltd**

Unit 13  
Stilebrook Road  
Olney  
Buckinghamshire  
MK46 5EA  
England

Tel +44 (0)1234 244320  
Fax +44 (0)1234 714978

E-mail: [sales@uk-exchangers.com](mailto:sales@uk-exchangers.com)  
Website: [www.uk-exchangers.com](http://www.uk-exchangers.com)

