

DKL Mechanical

DKL Mechanical Limited is a family run business providing a range of mechanical services for both commercial and industrial applications, specialising in the design of Heating, Hot Water and Steam Solutions.

With over 40 years of experience in the design of bespoke heat transfer products and packages, we are able to offer unique and efficient solutions for all applications and sectors.

DKL can provide assistance throughout all stages of construction, providing comprehensive advice on product selection, specification, design and installation. We are also flexible and able to offer on-site surveys, servicing and commissioning of both our own products and most other makes of calorifiers and heat exchangers available within the market.



PO Box B30, 35 Westgate, Huddersfield. HD1 1PA



+44(0)161 217 9701



dklmechanical@gmail.com



www.dklmechanical.com



**DKL MECHANICAL
LIMITED**

*SPECIALISTS IN BESPOKE
HEAT TRANSFER SOLUTIONS
AND STEAM EQUIPMENT*

DKL is committed to the delivery of efficient, intuitive and quality solutions to suit each client's individual requirements

DKL Mechanical Limited is a multifaceted company, able to provide a range of services to assist through all stages of a buildings lifecycle from initial design all the way to annual maintenance. The following pages detail some of the services and products that we are able to offer.

DESIGN & SPECIFICATION

Our experienced technical team are able to advise clients on a variety of topics including; equipment specification, sizing, fault finding and suitability. Our design capabilities range from pressure vessels to fully packaged plantrooms.

Our design department are able to provide detail scale drawings for insertion into client's existing layout drawings. As part our draughting service we can offer tailored solutions from simple 2D drawings to BIM Level 2 Models.

We also offer a tailor-made documentation service where, in addition to the standard documentation package of GA Drawings, IOMs etc. we can also provide documents such as; ITPs, Quality Plans, Calculations, Material Certificates, Certificates of Conformity, Functional Specifications and Justification of Safety Documents etc. Please contact a member of our team for more information.

SITE SURVEYS & INSPECTION

DKL provide a range of site surveys and inspection services including;

- Energy Reduction Surveys
- Targeted Surveys
- Pump Surveys
- Steam Trap Surveys

For more information, please request a copy of our Services Brochure or speak directly to a member of our team.

SERVICING & MAINTENANCE

A thorough maintenance regime is necessary to prevent component failure and reduce system 'down-time'. DKL can offer a range of services to support an effective preventative maintenance regime including;

- Tube Bundle Repair Services
- Valve Repair & Reconditioning
- Pipework Modification
- Commissioning
- One-Off Surveys
- Annual Service Agreements

For more information, please request a copy of our Services Brochure or speak directly to a member of our team.

REPLACEMENTS & SPARES

DKL stock a wide range of general spares for both HVAC and Commercial Industries, all available for next day delivery. We are also able to supply a whole host of items to suit existing installations and equipment including;

LTHW/DHW SYSTEM SPARES

Control Valves
Electric/Pneumatic Actuators
Line Valves
Safety Valves
U-Tube Bundles
Plate Heat Exchanger Plates & Gaskets
Calorifier Gaskets
Pump Shaft Seals, Wear Parts & Motors
Programmed Temperature Controllers
Control Sensors & Glands
High Limit Thermostats
Immersion Heaters
Immersion Heater Thermostats

BOILER HOUSE SPARES

Control Valves
Electric/Pneumatic Actuators
Line Valves
Pressure/Temperature Gauges
Gaskets and Joints
Gauge Glass and Seals

SafeContractor

Approved



PRODUCTS

DKL offer a comprehensive range of products for all aspects of hot water generation, transfer and storage, in a range of materials.

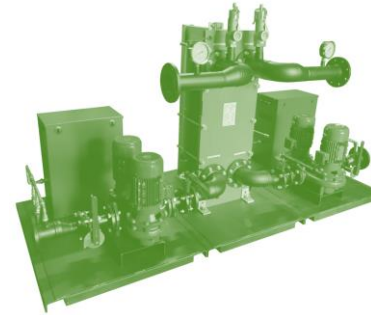
We are constantly working to refine and develop our product range in order to offer the most intuitive and efficient solution for your requirements.

Our technical team have a wealth of experience and are able to assist throughout all stages of construction, providing comprehensive advice on product selection, specification, design and installation.

We also offer on-site surveys to assess both spatial and access restraints at quotation stage to ensure all requirements are considered throughout the design stages,



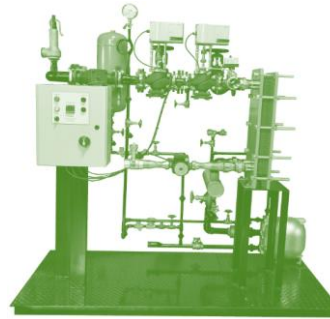
PLATE HEAT EXCHANGERS



SYSTEM BREAK PACKAGES



PHE & STORAGE PACKAGES



STEAM PACKAGES



CONDENSATE PUMP-SETS



BESPOKE PACKAGES

PRODUCT SCOPE

- PLATE HEAT EXCHANGERS
- BESPOKE PACKAGED ASSEMBLIES
- BOILER-HOUSE PRODUCTS
- NON-STORAGE UNITS
- CYLINDERS & STORAGE VESSELS
- SPARES & ANCILLARIES



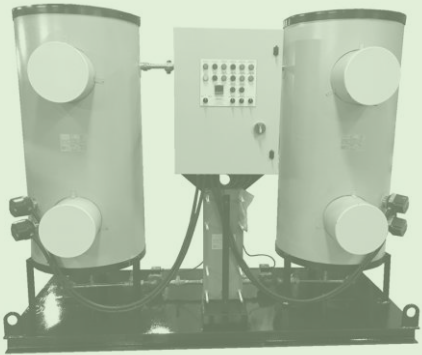
STORAGE CALORIFIERS



STEAM ACCESSORIES



ELECTRIC FLOW HEATERS



RAF BICESTER

This second phase of the project consisted of four NEROSTOREPAK PHE and Twin Buffer Vessel Packages. Each package comprised; 2x Direct Storage Cylinders, Gasketed PHE, Control and High Limit Valves and Actuators, Primary and Secondary Pumps, Commissioning Valves, Interconnecting Pipework, Skid Base and Backup Immersion Heaters.

All of which was controlled by an integrated DKL Control Panel complete with Internal Temperature Controller, Manual Switch for Summer/Winter Mode and RS485 Communications Module housed in an IP65 Enclosure.

ROLLS ROYCE, AEROSPACE

DKL were awarded the contract to replace two ageing condensate pump-sets at the Aerospace Site which were no longer able to provide the duty required by the site after recent expansions. DKL attended site at enquiry stage to provide an initial assessment and proposal for the new units to be installed on site.

Due to one unit being sited externally, both units were made entirely from Stainless Steel including; vessel, pipework and frame-work. Once installed, appropriate insulation, stainless steel cladding and weather protection was fitted.

Site visits were also included to allow on-site supervision of the units during installation and commissioning.



CASE STUDIES

RAF NORTHOLT

Plate Heat Exchangers can be employed as a system break between old and new heating systems. In order to protect the newly installed Boilers at RAF Northolt, DKL provided a bespoke 450kW System Break Skid Assembly.

The Plate Heat Exchanger was supplied c/w primary and secondary twin-head circulating pumps, safety valves and pressurisation equipment (expansion vessels were supplied separately as requested by the client). The package was built over three separate skid bases to assist transportation and positioning on site.

STEPPING HILL HOSPITAL

Stepping Hill Hospital's maternity unit utilises steam as a primary heating source. DKL provided four packaged steam plate heat exchangers for the generation of both Domestic Hot Water, with each unit rated between 120—150 kW, utilising steam at 5 BarG.

Pictured is the Steam/DHW 'ATMOSPAK' Package which was supplied. The package features; PHE, steam conditioning system, temperature control system, system interlock, condensate pump and safety features including fail-safe, independent high temperature cut-out valve and safety valve.

