PREMIUM QUALITY COMMERCIAL, INDUSTRIAL AND MARINE CALORIFIERS

SOLAR & HEATPUMP UNITS AVAILABLE

McDonald Water Storage
Hot Water Storage Solutions
McDonald Water Storage manufacture a wide range of Calorifiers to suit Vented and Unvented Installations and are widely recognised as the specialists in renewable energy calorifiers.

The growth in demand for Copper calorifiers is largely thanks to coppers’ enhanced thermal conductivity, as well as its excellent non-corrosive and anti-bacterial qualities. These are proven to be more effective at eradicating germs such as MRSA, E-coli and Legionella.

Quality is paramount and every McDonald Water Storage Calorifier is manufactured to BS853 and follows a BSI approved quality plan to ISO 9002. Each unit is rigorously tested to ensure problem free installation and operation.

Other materials are available on request.

Sizing and technical advice are readily available to ensure each unit is suitable for the capacity and pressure required. Design sketches are also available for individual projects. We carry a wide range of sheets, spinnings and other materials. This helps us to provide a rapid delivery often within one week.

**THE ADVANTAGES OF COPPER**
- Tried and tested material
- Proven to be healthy and safe
- Long-Lasting
- 100% Recyclable, benefiting the environment

**CALORIFIER TYPES**
- **VERTICAL** - Mounted on steel or copper ring stand or legs as required.
- **HORIZONTAL** - can be supplied with support cradles to suit.
- **DIRECT** - Electrically Heated by Immersion Heater.
- **INDIRECT** - Heated By Boiler, Heat Pump or similar.
- **BUFFER VESSELS** - Providing additional storage for secondary or primary water.
- **RENEWABLES** - All units can be manufactured to suit renewable input, such as Solar or Heat Pumps. Copper is the ideal material to maximise the gains from the lower temperatures often involved.
- **MARINE CALORIFIERS** - A wide range of options and sizes are available. This coupled with a rapid availability - often required where refits and repairs need a quick turnaround.

**BESPOKE CALORIFIERS**
We have an enviable position in the market for ability to design, manufacture and supply some of the most complex and technical calorifiers thanks to our inhouse expertise and our advanced machining capabilities. Whether its sizing, multi-fuel applications or connections, our team are only too happy to help. This enables you to get exactly what your project requires without compromising on any aspect.

**PRIMARY HEATERS**
Indirect units can have either a Fixed Coil or a removable ‘U’ Tube Battery, both suitable for Water or Steam. Fixed Coil types are more economical and an access manhole can be added if access is required for maintenance.

www.mcdonaldwaterstorage.com  TEL: 01592 611123
CALORIFIER OPTIONS

Thermal Insulation
Polyurethane Foam Lagging is most economical but Rockwool insulation with a Galvanised Steel case is also available for a more aesthetically pleasing finish.

Rapid Recovery
State the re-heat time required and what kW input is available and a Primary heater will be designed to suit.

Immersion Heaters
Calorifiers are as standard supplied with 2½” Immersion bosses and Immersions can be supplied with up to 18kW to fit these. Flanges can be fitted to take more highly rated Immersions, which we are also able to supply. Control Panels are also available.

De-stratification Pumps
These can be fitted with the appropriate internal pipework to suit. These eliminate the risk of legionella.

Inspection Openings
Allowing access for inspection or cleaning.

Gauges, safety valves, lifting lugs etc.
A complete range of gauges and valves are available on request.

Plate Heat Exchangers
These can be linked to Calorifiers for high peak demand. See our separate brochure.

DIMENSIONS* (GENERAL GUIDE)

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<th>Capacity</th>
<th>Shell Size</th>
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*THIS IS A GENERAL GUIDE OTHER OPTIONS AVAILABLE - CONTACT 01592 611123
1. Quantity required
2. Type - Vertical or Horizontal
3. Dimensions or Capacity required
4. Vented or Unvented
5. Working Pressure of Secondary System
6. Working Pressure of Primary System
7. Direct or Indirect
8. Coil Type or U-Tube Battery Type
9. Pumped or Gravity Fed Primary circuit
10. Recovery Time required
11. Primary Medium
12. Primary Temperature
13. Ring-stand or legs. Cradles if Horizontal
14. Manhole details if required
15. De-stratification pump required