



Dpstar Group

INDUSTRIAL HOT WATER CALORIFIER

*Dpstar The Hot Water
Calorifier Expert*



About Us

Dpstar is an established engineering company specializing in the design and fabrication of heat exchangers mainly for power plants, petrochemical, oil & gas, HVAC and other general industries. Today, Dpstar has gone on and expanded to become a heat exchanger manufacturer with decent credentials.

Dpstar has over 30 years of industry experience manufacturing heat exchangers, as well as the integration of automated control systems. Our expertise ranges from R&D, manufacturing, and sales & service; offering our customers a complete product and service experience. We specialize in the design and manufacture of various types of high-efficiency heat exchangers, energy-savings and environmental protection product based on market requirements.

Dpstar is a reliable source for premium quality products and services for the engineering industry and we have the capacity to deliver solutions that are flexible with precision. Dpstar has particular success using multi-discipline engineering expertise and experience in providing designs along with technical support across the range of the manufactured heat exchangers.

What is a Calorifier?

A calorifier is a commercial grade indirect hot water cylinder which is designed to meet the performance requirements of a commercial property from offices to hotels and from leisure facilities to factory units. Calorifiers tend to be manufactured from copper to reduce the risk of legionella with suitably sized back up immersions to ensure the hot water demands are met.

We tend to recommend de-stratification pumps to allow the water to be continually circulated to avoid pockets of cold water forming and an inspection manhole to provide easy access should the need arise.

Calorifiers may be installed onto an open vented system, with cold water supplied from a storage tank which provides the head pressure for the hot water system.



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We are capable of supplying a complete in-built hot water calorifier skid with a circulation pump for hot water circulation. Recirculation pipework is essential to maintain the hot water temperature in the pipework and to minimise dead legs. Aside from that, it is crucial to maintain the temperature at a specific range in the hot water system. A minimum temperature is required to prevent the growth of Legionella bacteria whereas a maximum temperature is vital to avoid scalding and to enable energy savings.

Hot water creates a complex environment that enhances the existing capability of naturally occurring minerals to cause corrosion, scale deposits and odour problems. Hot water is much more corrosive than cold water. As water is a universal solvent, it will naturally corrode (or dissolve) steel materials. The corrosion is typically a chemical reaction whereby steel reacts with water and oxygen, resulting in rust. Our hot water storage tanks are professionally engineered and can be designed to meet your unique project requirements. We always make sure we carefully conduct materials selection to manufacture quality and safe products that can withstand high water temperature and pressure.

Calorifiers – What Are They, Sizing & Uses

At Dpstar we supply a wide range of different tank products for hot water applications; in this short article we take a look at Calorifiers – specifically what are they, their sizing and uses. Calorifiers are basically water storage tanks fitted with a suitable heating coil in their lower half. This can then be connected to an external heat source, such as a gas boiler or a renewable energy system, for example a heat pump or a boiler for wood or pellets. Calorifiers are suitable for hot water storage in a number of applications, from a small domestic dwellings to supplying hot water in commercial buildings.

The basic function of a calorifier is to retain thermal energy for later use and can supplement the heat source when demand is high or store heat when demand is less. Stored heat can be immediately accessed without the heat source needing to get up to temperature; this can be very useful for an immediate response, maintaining a constant output over the day and improving energy efficiency and the longevity of the system.

We offer a wide range of tanks for use in various heating applications. Calorifiers from Dpstar have special protective linings which are specially designed using a glass enamel coating material for potable water applications – which certifies the product for use in drinking water installations and is a prerequisite in most commercial projects.



High quality calorifiers for heating and supply of high volume hot water. Servicing estates, residential flatlets, hotels, and medical. Supply of replacement parts and components.

Features

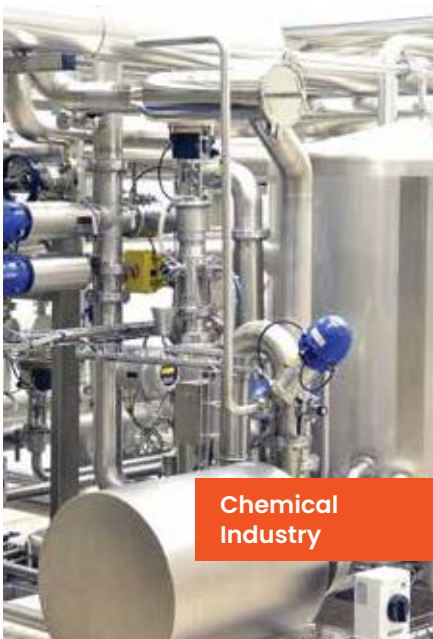
- Available up to 10,000 litres in tank capacity
- Customization possible for various functions such as the integrated control function, alarm options, number of circulation pumps and heater size.
- For safety precaution, Hot water calorifier is designed with multiple safety points to cut off the heater.
- 304, 316 or 316L stainless steel pressure tank, classable by IACS members.

Our Customized Solutions

We can supply calorifiers in a wide range of sizes to suit any application, from small domestic tanks right up to industrial or commercial projects, which often require tanks anywhere from 500 litres to 10,000 litres. Tanks can be designed to be orientated in vertically or horizontally to suit the ceiling void or roof space available and at Dpstar we can work with the heating services engineer to develop the specification for the size and orientation of the tank required for the project.

We offer a full free of charge design and specification service covering the whole of the UK, designed to support architects, specifiers or contractors. We can give you knowledgeable, yet impartial advice on selecting the right calorifier tank to meet your heating needs.

Applications We Serve



We're the logical choice for your industrial hot water calorifier. Contact our engineering team about your facility needs, and we can help you choose the best hot water calorifiers for your application.



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