

An effective water treatment programme is essential in providing adequate protection to your plant equipment and in controlling the risk of legionella

Water Treatment

It is a legal requirement for duty holders to control the risk of exposure to legionella bacteria. As legionella is more likely to grow in a cooling system, maintaining the cleanliness of the system and water is an essential part of your control regime.

Our experienced engineers are fully trained to identify system improvement and opportunities to reduce your spend on water and chemicals.

We provide our clients with effective water treatment programmes that guarantee optimal operation of their heating, cooling and plant equipment. This ensure that production, product quality and service provision is not diversely affected by scale, corrosion or fouling (bacterial or sediment).

BrodexTrident design bespoke water treatment programmes that comply with relevant industry guidance and legislation, such as:

Acop L8 (4th Ed.) - Legionnaires' disease: The control of legionella bacteria in water systems: Approved Code of Practice and guidance

HSG 274 Part 1: The control of legionella bacteria in evaporative cooling systems

HSG 274 Part 3: The control of legionella bacteria in other risk systems,

BSRIA – Water treatment for closed heating and cooling systems (BG50/2013).

We provide water treatment services for:



Our Services:

BrodexTrident offer a range of services in relation to water treatment that help you to remain compliant with building and insurance regulations:

Cooling Water Treatment and Services

Steam Raising Plant Water Treatment and Services

Closed Recirculating Water System Treatment

Water Pre-Treatment Equipment

BrodexTrident North
Tel: 0808 129 2008

BrodexTrident Midlands
Tel: 0844 335 6607

BrodexTrident Scotland
Tel: 0141 353 5068

BrodexTrident South West
Tel: 01392 241 331

BrodexTrident South East
Tel: 01474 871 662

info@brodextrident.com | www.brodextrident.com

BrodexTrident
COMPLIANCE SERVICES 

Providing peace of mind through trusted and flexible services

Cooling Water Services

Water cooling is a method of removing heat from processes or equipment, where water is used as the heat conductor. Water treatment of cooling towers and other cooling systems is essential in preventing damage to the critical heat exchange process equipment. This can create reduction in productivity and product quality due to the following:- corrosion, scale, fouling, microbiological contamination and legionella bacteria.

What we do:

- ✕ Provide tailor made chemical water treatment programmes that are bespoke to operation and site conditions
- ✕ Offer weekly and monthly monitoring services to evaluate and ensure delivery of an effective water treatment programme
- ✕ Risk Assessment of your cooling system, with recommendations included in the final report
- ✕ Bacteriological analysis to UKAS Standards, with full reports provided | System clean and disinfection services
- ✕ Supply and installation of water softeners | Tower fabric refurbishment / repairs and pack replacement

Steam Raising Plant Water Treatment and Services

Steam boilers and steam generators are used to produce an easily transportable source of energy by converting water to steam through application of heat. This process can cause scaling, deposition, corrosion and carryover in the steam raising plant equipment, which could significantly increase plant operating costs, affect product quality and premature plant failure.

What we do:

- ✕ Water treatment programmes that will effectively condition the feedwater, boiler water, steam and condensate for use in food and non-food applications to BS2486:1997 Standards
- ✕ Provide tailor made chemical water treatment programmes that are bespoke to operation and site conditions
- ✕ Provide weekly and monthly monitoring services to evaluate and ensure delivery of an effective water treatment programme
- ✕ Supply and install pre-treatment equipment such as water softeners and reverse osmosis systems, including condensate polishers
- ✕ Install chemical dosing equipment that contribute to an effective water treatment programme
- ✕ Acid cleaning and de-scaling of steam boilers and hot water storage tanks

Closed Recirculating Water System Treatment

There are two types of closed recirculating water systems, notably chilled water systems (CHW) and heating water systems (LPHW, MPHW & HPHW). Closed systems are susceptible to corrosion, sludge formation and bio-fouling. These can result in problems such as poor performance, reduce economy and increased costs in maintenance and repair. Materials to be protected can vary from copper, brass, aluminium, iron, stainless steel and others.

What we do:

- ✕ Water treatment programme per BSRIA BG50:2013
- ✕ Quality monitoring services to evaluate and ensure delivery of an effective water treatment programme
- ✕ Health check on closed systems by taking sample of water to test the chemistry and bio matter, detailed report produced on findings
- ✕ Supply and install side-steam (hydro cyclones) to remove historical corrosion and fouling suspended solids
- ✕ Supply and install chemical dosing pots
- ✕ Chemical top up dosing as required | Pre-commission cleaning | Acid cleaning and de-scaling of steam boilers and hot water storage tanks

Water Pre-Treatment Equipment

Water pre-treatment, in preparation for use downstream, removes impurities and particulates, such as suspended solids, colloidal particles, organics, bacteria, iron and manganese. A combination of purification technologies can be used to provide water suitable for your specific application in a convenient and cost effective manner.

We can specify, supply and install the following plant equipment for both industrial and domestic applications:

- ✕ Sample Coolers
- ✕ Ultrafiltration Plant
- ✕ Water Softeners
- ✕ Reverse Osmosis
- ✕ Condensate Polishers
- ✕ Ion Exchange Resins
- ✕ Reverse Osmosis Membranes
- ✕ Chemical Dosing Pumps & Control Equipment
- ✕ Chemicals & Chemical Dosing Pots
- ✕ Water Filters & Side Stream Filters

BrodexTrident North
Tel: 0808 129 2008

BrodexTrident Midlands
Tel: 0844 335 6607

BrodexTrident Scotland
Tel: 0141 353 5068

BrodexTrident South West
Tel: 01392 241 331

BrodexTrident South East
Tel: 01474 871 662

info@brodextrident.com | www.brodextrident.com

BrodexTrident
COMPLIANCE SERVICES 