

# WATER TREATMENT PROGRAMMES FOR COIL BOILERS



**Babcock Wanson UK**  
ENIM Group

*Energy made to Measure*

## Water to Steam

Water has unique properties and is intriguing in various ways, which is why steam has been used as an effective heat transfer medium in heating applications for hundreds of years but, for all its many vital qualities, when left untreated water will destroy the steel from which any boiler is constructed.

Therefore, both the quality of the steam and the longevity of the boiler producing it are dependent upon the condition of the water feed. Principal among the damaging factors are dissolved Oxygen carried by the water and acidity of both the raw incoming water and the condensate from the system, so this needs to be chemically treated to prevent corrosion of the boiler steel.

## Fact...

- **All steam boilers require suitably treated feed water**
- **Poor water treatment will lead to corrosion of the steam boiler and, in the worst case scenario, the coil will need replacing**
- **Normally this would leave you out-of-pocket and trying to establish between two suppliers just who is at fault**

## Split Responsibility – Who to Blame?

Modern coil type boilers are sophisticated pieces of equipment and often a whole manufacturing or support facility is dependent upon reliability and availability of the steam plant.

Whilst a steam boiler always requires properly treated water, this service has traditionally been supplied independently by separate companies, perhaps having only an outline understanding of the boiler. So what happens when they get it wrong? Who is to blame and who foots the bill to put it right? It's an all too common scenario.

Using Babcock Wanson as your single-source for boiler maintenance and water treatment services avoids this conflict and gives you peace of mind. We have built our reputation on the quality of boiler design and manufacture and our unparalleled after-sales support.

We help ensure the effective supply of suitably treated water for your Babcock Wanson boiler.

# The Babcock Wanson Single-Supplier Solution

Babcock Wanson has a long and enviable boiler engineering pedigree and an excellent reputation for after sales support. We see first-hand the effects of poor boiler water treatment and, more importantly, on our customers' ability to run their plant effectively.

That's why we have introduced a new and innovative all-in-one service for customers, not only providing steam boilers but also offering a comprehensive range of water treatment programmes. For the very first time, you have the option of a convenient single-source solution with undivided responsibility.

We offer accurate and effective water treatment, which is backed-up with a **5-year corrosion warranty** on new boiler coils. In the unlikely event of feed water deficiencies causing the coil to fail due to corrosion within the first 5 years, we will replace it.

**No argument, no fuss, no split responsibility.**

Request an offer for full details.

To provide the level of service that meets our requirements, Babcock Wanson has established a unique and exclusive relationship with water treatment specialists Deep Water Blue. Experts in their field, Deep Water Blue are a perfect partner for this joint venture, because they share with Babcock Wanson the same level of professionalism, reliability and commitment to customer care.

## Benefits to our customers:-

- Undivided responsibility, giving a complete service from one trusted supplier
- On-going technical support
- Reliable, professional service
- **5-year corrosion warranty** on new boiler coils

## Water Treatment Programmes

We are pleased to be able to offer three levels of service to cater for differing requirements and budgets.

### All Programmes use top-grade products that are:-

- Easier and safer to handle and manage than conventional boiler treatment chemicals
- Environmentally friendly chemicals that are FDA (Food and Drugs Administration) approved
- Bespoke formulations especially suited to Babcock Wanson boilers

Our consultants are highly qualified professional specialists, who can be relied upon to conduct on-site testing at agreed regular intervals. They schedule their test visits to vary the time and day of the week, so as to get an accurate picture of your site's specific requirements and process under a variety of conditions; thus ensuring the most appropriate chemical dosing regime.

In between the scheduled consultancy visits, our unique **vSteam** web portal allows you to simply enter your daily readings on-line and receive 'real time' feedback support. These records will help satisfy HSE guidance on the water treatment aspects of managing industrial steam boilers.

# The Options

## SYSTEM 1

Single chemical pack solution for maximum convenience:-

- Oxygen scavenger, sludge conditioning and pH control chemical, all dosed using a single pump and container
- Nominal operator demands, with no on-site mixing of chemicals required
- Significant COSHH benefits of 'user friendly' products and minimal chemical handling

= **MAXIMUM SIMPLICITY AND CONVENIENCE**

## SYSTEM 2

Dual chemical pack solution for ease of use:-

- Separate Oxygen scavenger and sludge conditioning with pH correction
- Typically requires more than one dosing pump and container
- No on-site mixing of chemicals
- Limited operator involvement

= **AN EFFECTIVE REGIME, BALANCING COST WITH CONVENIENCE**

## SYSTEM 3

Multi-chemical pack solution for cost-effective treatment:-

- Individual products for separate control of the key boiler water characteristics
- Requires separate dosing pumps and containers for each product
- An experienced and trained operator is required

= **THE MOST COST-EFFECTIVE OPTION, PARTICULARLY SUITED TO HIGH STEAM DEMAND APPLICATIONS**

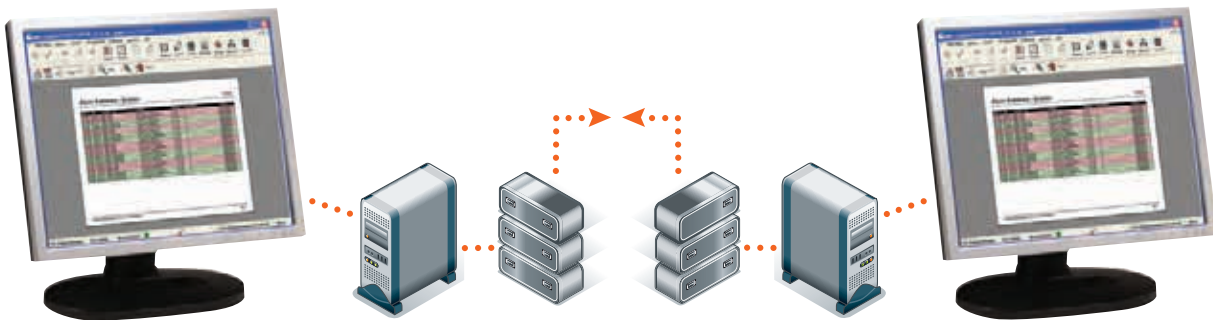


Bespoke and innovative products having significant safe handling advantages compared with commonly used chemicals

On-site testing by qualified specialists



Clear reporting and consulting advice



vSteam on-line data logging and support option

Working in partnership with:



Deep Water Blue

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