

Simplified chemical metering and reliable performance



Simpler, safer chemical metering

Chemical vendors standardize on our metering pumps for simpler and safer installation, operation and maintenance.

Accurate, low-maintenance performance gives chemical vendors reassurance that processes are in control, allowing them to focus on developing more opportunities.

"Our goal at Watson-Marlow is to provide you with the peace of mind you need to focus on taking care of customers and developing business."

Mike St. Germain,
Customer and Market Insights Lead,
Industrial Sectors, Watson-Marlow

Solutions for chemical vendors

Our pumps are used in a wide range of chemical metering applications to help chemical vendors deliver:

- Accurate ($\pm 1\%$), repeatable ($\pm 0.5\%$) dosing to support regulatory compliance through the entire feed range, with a turndown of up to 30,000:1
- Low maintenance that avoids unplanned, costly downtime
- Simple installation, operation and quick maintenance with no tools or specialist training required
- Contained Qdos pumphead design with integral leak detection reduces wastage and minimizes operator exposure to chemicals
- Low-shear handling to preserve chemical integrity
- Precise control for drip-feed dosing

Qdos® chemical metering pumps reliably handle challenging substances including:

- Biocides like bleach, bromine, peracetic acid (PAA) and hydrogen peroxide
- Polymers including emulsions, dispersants and defoamers
- Abrasive chemicals such as dyes, ferric and lime
- pH adjustment chemicals, antiscalants and corrosion inhibitors



Pumps for a simpler, trouble-free process

Simplifying chemical feed and ongoing support is critical to maintaining reliable processes, especially when rapid response to changing conditions is required.

Qdos pumps reduce complexity for end users as they do not require high-maintenance ancillary parts to function, which diaphragm and progressive cavity pumps often do. With a single, no tools component replacement, Qdos maintenance takes only minutes, keeping operations running smoothly.

Like Qdos, our Bredel hose pumps have no impellers, liners, mechanical or packed seals, check valves, rotors, or stators to replace. Their only wear part is the hose or tube, which is replaced in minutes with standard tools.

Qdos, Bredel and Watson-Marlow close-coupled and cased drive pumps have been proved to run without maintenance for longer periods than other dosing pumps.



Discover our chemical metering solutions:
wmfts.com/en-us/industrial/applications/chemical-industry/chemical-vendor/



Photo supplied courtesy of Aquajet Systems AB

ExoCell

CASE STUDY

ExoCell integrates Qdos chemical metering pumps in its modular water treatment systems

ExoCell, a France-based designer and manufacturer of modular water treatment and recycling systems, is playing a key role in major projects such as the construction of the Paris railway line extension. Designed to clean effluent and promote water reuse, ExoCell's easy-to-use solutions minimize water treatment costs while supporting environmental compliance.

A key component in some of ExoCell's systems is the Qdos chemical metering pump, for its reliability and low maintenance when dosing corrosive reagents in demanding environments.



"Our technical department was looking for a solution for dosing chemical reagents... We decided that the Qdos pumps and their peristaltic technology were the right solution. We fit them into our cases without reinventing the solution each time."

Olivier Bousige
Business Development Director at ExoCell



Read full ExoCell case study here



Safer process conditions

Our pumps enhance operation safety due to their fully contained design. Enclosed pumpheads, hoses and tubing prevent chemical leaks and protect surrounding areas. This is particularly critical when dosing polymers, where spills are hazardous, expensive and time-consuming to clean up. The Qdos ReNu PU pumphead is specifically designed for safer, clean and leak-free polymer dosing.

Qdos pumps support operator and environmental safety through:

- Sealed pumpheads for chemical containment
- Leak detection software
- Integrated alarms for early fault detection



Solutions to protect your customer’s reputation

Chemical vendors can help to protect their customers from reputational damage through safer, more accurate and compliant chemical handling.

That is why increasing numbers of chemical vendors trust our peristaltic technology, application expertise and rapid-response support. With local support and guidance on specific applications, we ensure that chemical vendors deliver a predictable and efficient service for their customers.

The benefits of Qdos pumps are easy to notice when feeding viscous, abrasive and off-gassing chemical while its precise, adjustable control provides rapid response to process variations. Tool-free maintenance and quick pumphead replacement further maximize uptime and reduce the support burden.



“Using the Qdos pump allowed us to stabilize additive dosing, improve grinding and increase production. In addition, maintenance is minimal, and operation is much simpler.”

Production engineer at Cementos Patriota



Read full Cementos Patriota case study here

Ergon – West Virginia Inc.

CASE STUDY

Qdos CWT chemical metering pump doses chlorine without fail for over 15,000 hours at Ergon Inc.

A Qdos® CWT™ chemical metering pump ran for over 21 months dosing chlorine at Ergon – West Virginia Inc.’s paraffinic refinery in the USA, after replacing a diaphragm pump which lasted less than half the time on average.

The Qdos CWT pump is dosing chlorine into the raw water stream as part of a process to produce sodium hydrosulfide (NaHS) for the paper and pulp industry.

Ergon installed a Qdos CWT pump, which ran continuously from February 8, 2022 to November 21, 2023 at the crude oil refinery.

“The pump is dosing 200 ppm (parts per million) chlorine into the raw water stream for our softener that feeds the fuel gas treatment system. It pumps 6 mL per hour, day in and day out without a hitch.

“The Qdos pump has greatly improved reliability and simplified service for our application. Maintenance for this system has been reduced to keeping the chlorine tank full and adding salt to the softener.”

Bob Bowers
Maintenance Planner/Coordinator
at Ergon West Virginia, Inc.

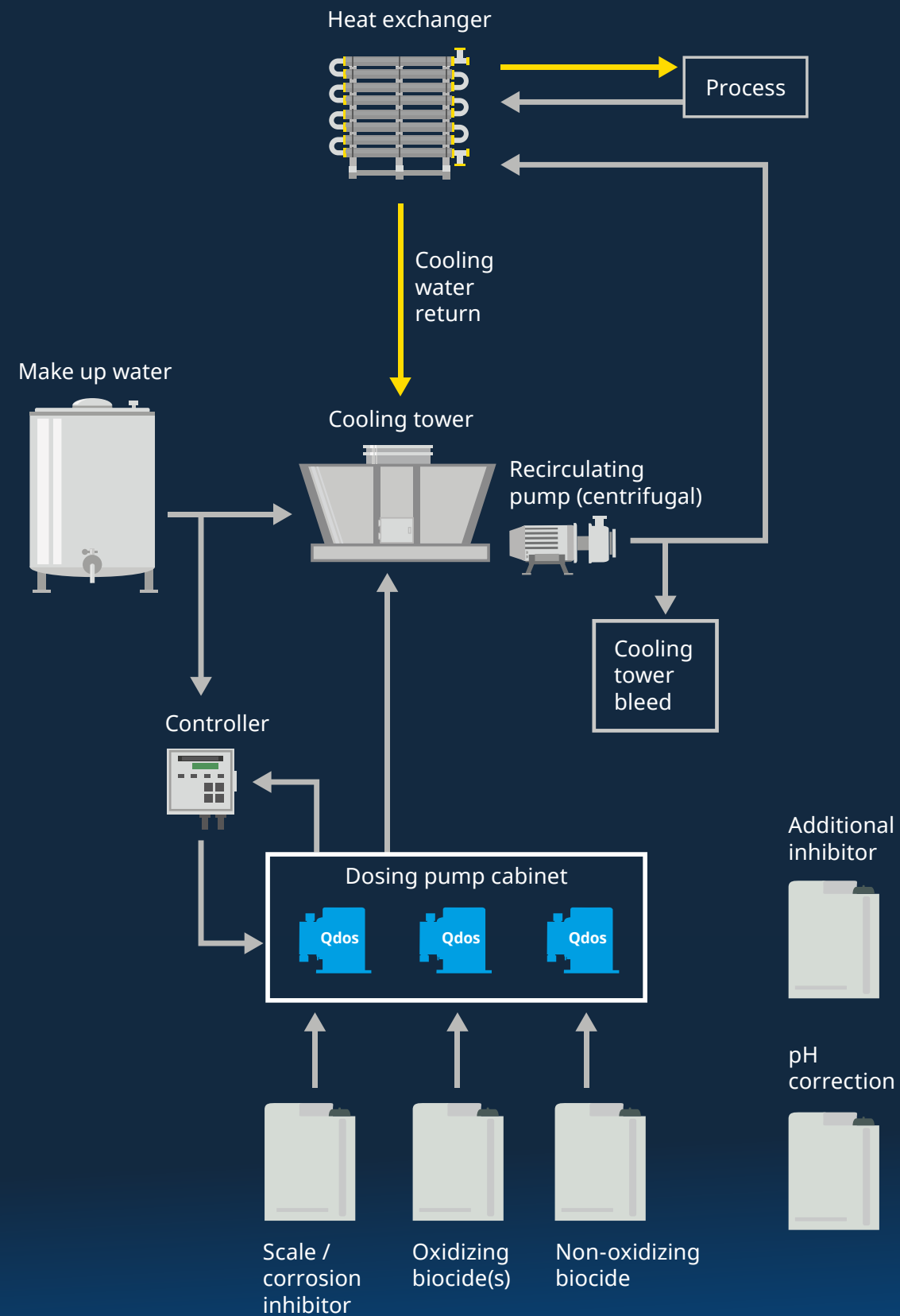


Read full Ergon case study here



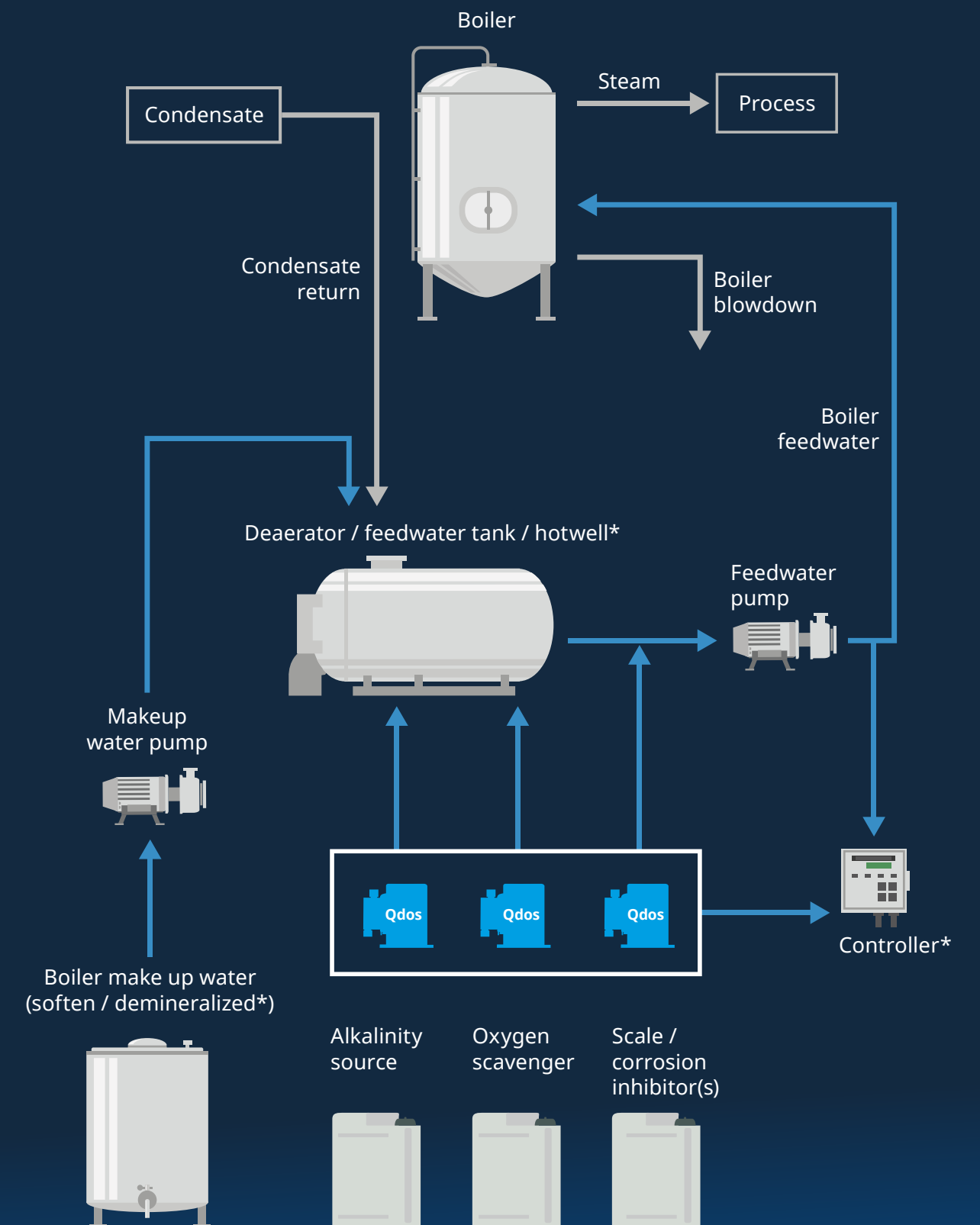
Process diagram

Cooling towers



Process diagram

Boiler feedwater



*Depending on application/layout

Discover a complete portfolio for chemical vendors



Qdos® chemical metering pump

- Setting the standard for a new generation of peristaltic metering pumps
- Ideal for handling chemicals from 0.002 to 158.5 gph
- +/-1% or dosing accuracy up to 9 bar pressure
- Available in 7 sizes and 4 tube material options
- Simple drop-in installation eliminates ancillary equipment



Cased drive pumps

- Our iconic cased drive (500,600, 700) pumps, with interchangeable pumpheads for specialist applications
- 500 series flow rates from 0.063 to 55.5 gph
- 600 series flow rates from 0.015 to 285.3 gph
- 700 series flow rates from 0.030 to 871.7 gph



Close-coupled series

- For explosion proof applications
- Best suited for dosing and point-of-use transfer where reliability matters
- Flow rates up to 528.3 gph
- Simple installation and spare parts by reducing components
- Option for standard squirrel cage drives



Bredel hose pumps

- Designed for metering and transfer duties in harsh environments
- Flow rates up to 475 gpm at 232 psi, with a solids mass concentration of up to 80%
- Handles a wide range of reagents and abrasive slurries
- ±1% metering accuracy



APEX™ hose pump

- Optimized for maximum process uptime at low total cost of ownership
- Ideal for chemicals and lighter slurries
- Flow rates up to 27.3 gpm at 116.03 psi
- Available in 5 sizes (10-35 mm inner hose diameter)
- Perfectly shaped, precision-machined hose elements
- Advanced hose fastening system

Trusted technology and expert support

With over 60 years of leadership in peristaltic pump technology and broad process knowledge across multiple industries, we provide chemical vendors and end users with confidence in their dosing solutions.

Our pumps give end users confidence and a peace of mind, avoiding the frequent attention and downtime often required with alternative pump technologies.

Ready to discover more? Speak to our local experts and discover how our chemical metering solutions can deliver simple, reliable and low-maintenance solutions for you and your customers.

Contact our chemical metering specialists:
wmfts.com/en-us/industrial/contact-us/



CHEMICAL METERING SOLUTIONS

**WATSON
MARLOW**
Pumps

**WATSON
MARLOW**
Tubing

Bredel
Hose Pump

 **AFLEX HOSE**

Watson-Marlow Fluid Technology Solutions

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chemical-industry/chemical-vendor/](https://wmfts.com/en-us/industrial/applications/chemical-industry/chemical-vendor/)



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