WATER TREATMENT AND DISINFECTION

WALLACE & TIERNAN® PRODUCTS AND SERVICE IN EUROPE
What began in 1913 in the United States with the first chlorine gas feeder took off from there to the rest of the world: Charles F. Wallace and Martin F. Tiernan were the first to build a commercial chlorinator for water disinfection. They continued to develop their invention and established several subsidiaries around the globe.

Today, the Wallace & Tiernan® brand is a synonym for proven technology, experience and durable products. We also support you with a comprehensive range of services during the entire product life cycle - including consulting for modernizations, bespoke projects, service and aftermarket support exceeding the expectations from a typical supplier.
Evoqua Water Technologies is one of the world’s leading providers for water treatment equipment and service. It offers industrial customers and communities sustainable solutions for highly efficient water usage and supply. The extensive portfolio includes the Wallace & Tiernan® product line with complete solutions for disinfection, chemical feeding, treatment of process water and generation of pure and ultra pure water.

**WORLDWIDE COMPETENCE AND INNOVATION**

**EVOQUA WATER TECHNOLOGIES WORLDWIDE**

Evoqua counts 4000 employees worldwide in 170 facilities in Australia, Canada, Germany, Italy, Singapore, Bahrain, the United Kingdom and the US. With trusted brands such as Wallace & Tiernan, MEMCOR, Envirex, Ionpure and others, Evoqua follows its tradition and will explore new markets with new solutions and innovations.

**FACILITIES AT A GLANCE**

**Guenzburg, Germany.** About 240 employees work in the Bavarian facility. It is the center of research & development, production plant and sales and service facility as well. They continuously work on new ideas and solutions for changing requirements to protect the most precious resource – water.

**Paddock Wood, United Kingdom.** The dedicated Wallace & Tiernan team in the UK comprises approx 60 people, with all together over 1000 years disinfection experience, dedicated to Sales, Service, Contract Execution & Engineering, operating from Paddock Wood Headquarter, East Peckham, Derby and Leeds offices.

**Chaville, France.** The Wallace & Tiernan brand has been present in France for over 40 years. The Chaville location outside of Paris is a sales and service office dedicated to serving the French and French speaking markets in Europe and Africa.
GROUNDBREAKING TECHNOLOGY AND EXPERIENCE

Whether you’re dealing with gases, liquids or solids, water treatment relies on metering and feeding disinfectants and additives. Evoqua Water Technologies’ tried and tested technology provides maximum safety.
APPLICATIONS

MUNICIPAL WATER
Municipal waterworks, drinking water, hotels, schools, residential homes and hospitals
Applications
Disinfection, measurement and control, neutralization

LEISURE/AQUATICS
Pool water, water parks, aquaculture
Applications
Disinfection, water treatment, measurement and control, neutralization

PROCESS WATER
Food & beverage, agriculture, pulp & paper, cosmetics, pharmaceutical, electronics, aquaculture, chemicals, cooling towers/power plants
Application
Disinfection, measurement and control, treatment of cooling water, neutralization

WASTE WATER
Industrial and municipal waste water
Applications
Measurement and control, disinfection
WALLACE & TIERNAN® DISINFECTION SYSTEM METHODS

GENERATION OF CHLORINE DIOXIDE
DIOX systems

DIOX systems produce high quality chlorine dioxide solution with safety and efficiency in mind. The DIOX-C chlorine gas generators are applicable in water works. DIOX-A systems are used for legionellae prevention as well.

GENERATION OF HYPOCHLORITE
OSEC® systems
There are two distinct types of OSEC® electrolysis units: membrane systems and open systems. The membrane electrolysis process used by the OSEC-NXT system generates pure, stable, concentrated sodium hypochlorite solution from brine. The OSEC-A system produces a dilute aqueous solution of chlorine.

The sturdy tubular cell electrolysis systems generate saturated sodium hypochlorite solution from artificial brine (OSEC-B) or seawater (OSEC-S). Two different types of tubular cell electrolysis systems are available: proven OSEC-B and OSEC B-Pak systems.

UV TREATMENT
Barrier® M and S series
With the Barrier® S and Barrier M UV system series Evoqua Water Technologies covers a large range of applications. The low and medium pressure UV systems are used for safe, environmental friendly, economical disinfection without any taste or odour. They are suitable to reduce ozone and contribute to significant saving when used in swimming pools for chloramin reduction.

CALCIUM HYPOCHLORITE PREPARATION
SafePrep XC® system
With the SafePrep XC® preparation system, Evoqua Water Technologies offers a patented process by which operators can safely and simply use calcium hypochlorite.

SAFEPREP XC® CALCIUM HYPOCHLORITE PREPARATION SYSTEM
DOSING SYSTEMS FOR WATER TREATMENT

GAS FEEDERS
from V10k™ to E-2000 Series

With its proven and tested V10k™, Kent V2000, V-2020 and V-2030 all-vacuum gas feeders, Evoqua Water Technologies offers reliable technology that provides maximum safety.

The Wallace & Tiernan® V-notch gas flow control orifice, which is in use around the world, provides a wide control range and repeatability. Pressure/vacuum regulators that are directly mounted on the gas supply container or gas manifolds reduce the gas pressure to the necessary operating vacuum. The regulator is available in a wide range of capacities, with or without switchover function.

A range of direct gas feeders is available even for treating molten aluminium and alloys with chlorine and inert gases.

LIQUID FEED SYSTEMS/DOSING PUMPS
Chem-Ad® Series Pumps

The range of Chem-Ad pumps is characterized with excellent reputability and optimum of chemical resistances.

The various Chem-Ad® VPP/VPP-E/VPP-S peristaltic dosing pumps meter small quantities with a maximum of accuracy and work reliably with degassing liquids such as sodium hypochlorite as disinfectant.

DOSING OF POWDER ACTIVATED CARBON
JETPAK System

The compact JETPAK system consists of a combined preparation and holding tank for humidified and acidified powdered activated carbon slurry ensuring dust free handling. The slurry is extracted by an injector and is supplied to the application points.
HYGIENIC PARAMETERS IN POTABLE, POOL AND PROCESS WATER

The DEPOLOX 700 M system is suitable for applications in potable and process water treatment. It measures up to six parameters. The SFC system is designed for the measurement and control of single parameter.

SPECIAL SYSTEMS

The gas detection system GMS plus can be used wherever gases such as chlorine, chlorine dioxide or ozone are generated, stored and metered. This reliable dual channel measuring system allows gas concentration and temperature to be monitored in up to two rooms.

DATA MANAGEMENT

Process Monitoring System, OPC-Server

The Process Monitoring System provides access to the complete, tried and tested range of Wallace & Tiernan® measurement and control systems, applicable for one or from multiple clients simultaneously. Evoqua Water Technologies OPC-Server allows simple connection of all RS 485 units to Windows-based visualization systems.
WATER SUPPLY ZURICH, SWITZERLAND
Disinfection of potable water
Main Product
OSEC®-B hypochlorite generation system

WATERWORKS BEEPLITZHOF, BERLIN, GERMANY
Disinfection of potable water
Main Product
V10k™ chlorine gas feed system

OBERMAIN THERME, BAD STAFFELSTEIN, GERMANY
Disinfection of salt water pool
Main Product
DEPOLOX® Pool E 700 P Pool controller

SUEDZUCKER OBRIGHEIM, GERMANY
Chlorine dioxide for cooling circuit disinfection
Main Product
DIOX-A 5000 chlorine dioxide generator

PLEASE FIND THE COMPLETE CASE STORY ON OUR HOMEPAGE OR CONSULT YOUR SALES OR SERVICE CONTACT PERSON.
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What Service means to us:

• We offer to our industrial and municipal customers operational, maintenance and emergency services for their water treatment plants. As a trusted partner we help our customers to improve the quality of their water and wastewater, while also cutting costs by:
  • Lowering production costs
  • Improving operational reliability
  • Ensuring reliable adherence to official regulations

SERVICE

Service and maintenance contracts
Service and maintenance contracts cover regular customer services with a defined scope for the operation and or maintenance of the customer’s water treatment plants.

On-site service
On-site services cover a wide range of needs such as: plant repairs, commissioning of new systems, unscheduled maintenance as well as disinfection of water systems.

Spare parts/repairs
Evoqua Water Technologies keeps original spare parts in stock for the entire product lifetime, and also offers consumables as well as a comprehensive range of repair services.

Retrofitting and alterations
Our technical service department provides support for operation, water and energy audits, and can also perform retrofits or alterations to Evoqua or competitors’ systems upon request.

RELIABILITY

EXTENSIVE DOCUMENTATION COMPLETES OUR PRODUCTS. WE WILL KEEP YOU UP TO DATE ABOUT TECHNICAL CHANGES, IMPROVEMENTS AND ENHANCEMENTS. OUR FIELD SERVICE AND OFFICE STAFF ARE READY TO PROVIDE EXPERT ADVICE AND SUPPORT.
WATER IS OUR ELEMENT

RESPONSIBILITY

Since the invention of the chlorinator in 1913, Wallace & Tiernan® products have helped decisively to promote water disinfection methods.

Protecting the important resource water is the basis of our mission to find new solutions for current challenges, to continuously improve our products and to ensure that pure and clear water is available everywhere or can be recycled economically.