

“EXCELLENCE THROUGH DEDICATION TO SAFETY, SERVICE, QUALITY AND CONSERVATION”.

Chem-Quip™ Water Treatment Limited has played a major role in the local water treatment industry since its inception in 1986. The company specializes in chemical and mechanical water treatment for cooling tower, chiller, boiler, and grey & domestic water systems. Other services include sterilization of domestic water systems, chlorination equipment, laboratory services and supply of related equipment.

The company since its inception has collaborated with experienced and leading water treatment experts from North America making us a part of a large network of reputable water treatment companies and insiders. This model of information sharing and logistics, enables us to be flexible, responsive to our clients' needs and keeps us in the know that supports us in maintaining the most up to date technologies in our chemistry, equipment and engineering.

Chem-Quip water treatment programs are all designed for the particular environment and specifically to each client's needs. In this regard we operate a fully functioning laboratory at our facilities that supports our services and also to conduct research and development. The company employs academically qualified and experienced water treatment engineers to provide advisory and consultancy services directly to customers.

We manufacture our proprietary water treatment chemicals in Jamaica at our factory in Kingston. After 30 years of continuing research, we have developed an effective range of scale and corrosion inhibitors, dispersants, fungicides, bactericides, algacides, de-foamers and polymers that all have successful track record in Jamaica with our clients.

WATER TREATMENT PROGRAMME

The primary objectives of our water treatment programmes are to maintain equipment against long term damage due to scaling, corrosion and microbial contamination. Secondly our programmes are designed to ensure environmental preservation and safety, maximize equipment efficiency, and enhance energy and water resources conservation, and ultimately saving costs.

Customers that purchases any of our proprietary water treatment chemicals receives our standard water treatment service package.

Standard Service Package includes:

- ✓ *Site visit and assessment of water systems and related treatment programme.*
- ✓ *Make recommendations on water treatment programme for water systems in place.*
- ✓ *Detailed analysis of water quality used in systems.*
- ✓ *Provide related water treatment consultancy over the tenure of the service contract.*
- ✓ *Conduct annual training of employees on related water treatment programmes.*
- ✓ *Make regular site inspections as needed which include testing water properties and preparing a water treatment field report with recommended actions to the necessary personnel.*

PROGRAMME SUPPORT

Test Reagents & Analysers

Test reagents and other electronic devices are an essential part of water treatment monitoring. It is important to always have reagents and equipment to test water properties on site or in our laboratory.

Chem-Quip™ prepares water treatment chemical test reagents in our laboratory. This is important in order to maintain proper shelf life and to ensure accuracy of reagents.

Controls & Pumps

Chem-Quip™ water treatment programmes include the use of modern automatic controls and chemical feed pumps. We work with the world's leading brands.

These lines of products include electronic diaphragm metering pumps, peristaltic metering pumps, mechanical motor diaphragm pumps, microprocessor based water treatment controllers (boiler, cooling tower and timer) as well as pre-engineered systems and accessories.

We stock parts and service all equipment we sell.

CHEMICAL TREATMENTS

Boiler Water Treatment

Chem-Quip™ boiler water treatment chemicals are formulated with various blends of inorganic sulphites, chelating agents, phosphates, polymeric dispersants, and organic oxygen scavenging chemicals. These products are optimally designed for various boiler water systems in Jamaica to protect boiler surfaces, condensate lines and feed water systems against corrosion, oxygen pitting and, scaling deposits.

Steam Condensate Treatment

Chem-Quip™ Manufactures a complement of neutralizing polyamines for steam condensate systems. These are specifically formulated to prevent against corrosion in steam lines and are safe for use in the food industry.

Cooling Tower Water Treatment

Chem-Quip™ Cooling Tower Water Treatment chemicals are formulated with various blends of molybdates, oxidizing and non-oxidizing biocides, pH and alkalinity regulating chemicals. These chemicals are designed to work in conjunction with automatic controllers and chemical pumps to measure and regulate chemical and water use.

Our treatment programmes are intended to maintain high levels of system efficiencies, maximize water usage for optimal water balance and achieve savings through efficient energy consumption due to heat transfers from clean surfaces.

Membrane Chemicals

Chem-Quip™ manufactures treatment chemicals for Reverse Osmosis (RO) membranes. This line of products protects RO membranes from fouling due to suspended solids, microorganisms, and the precipitation of scale. Fouling of membranes can result in high rejection rates, reduced outputs which reduces overall system performance and increases costs.

Membrane treatment chemicals include biocides, cleaners and anti-scaling chemicals and other pre-treatment coagulants, pH balancing and de-chlorination chemicals

WATER CONDITIONING

Chem-Quip™ specializes in supplying commercial grade water conditioning systems. Our aim is to design and supply systems with the customer at the centre. Each system is designed around three key factors;

- i. *To produce the desired water quality standards,*
- ii. *To manage the water volume and flow demand and*
- iii. *Consideration of capital budgets.*

Water Softening

All water softeners are not built equal. Commercial water softeners have many important variables that can impact upon performance, capital and operational costs. From the ion-exchange resins, the valves, the circuits, to the nuts and bolts can have significant implications for performance.

Several failures in water softener design occur when softeners are not designed correctly for total demand, pressures, flows and other important operating factors.

Chem-Quip™ commercial water softeners are available in various sizes in steel and fibreglass options, a variety of controls and valve mechanisms and the most advanced industrial grade resin technologies available to meet the most complex water softening requirements.

Water Filtration & Grey Water Systems

Industrial water filtration applications require the removal and filtration of suspended solids from contaminated source water. The purification of water for brewing, distilling and the manufacture of food products are very important to quality assurance.

Chem-Quip™ offers a wide range of water treatment filtration equipment and systems including vessels, media, and media (*including activated carbon adsorption media*) exchange services to handle a variety of industrial water treatment operations.

Grey-water Treatment and recycling is an important way to significantly reduce 'wash' water usage. These systems can result in significant savings on water costs, and also in environmental costs by maximizing water use and reuse.

Greywater has several uses, both lightly and heavily filtered. It can be safely used for, showering, laundry, toilets, washing dishes, watering flowers and for irrigation. Greywater makes up between 60-80% of all residential wastewater.

Chem-Quip™ engineers are ready to work with you to explore filtration and grey-water treatment opportunities in new construction projects or adding grey-water treatment to your existing system.

PART IV

Reverse Osmosis

Reverse Osmosis is a very specialized process. Each commercial unit is designed and built for a specific set of source water conditions and water quality requirements. The difference in RO Systems are the engineering and design processes and less to do with the fabrication. Engineering the designing of membrane and size of RO systems have always proven to bring significant operational savings when done correctly.

Chem-Quip™ works with experienced Commercial and Municipal RO engineers, designers and builders in the USA, to bring to Jamaica the highest levels of expertise in delivering RO systems to our clients.

Contact our water treatment engineers for more details about all our chemical products, water treatment equipment and other water treatment services available from Chem-Quip Water Treatment Limited.