

Laboratory Water Systems

Hydros Deioniser
Brochure



 **FISTREEM**™

Fistreem International produces a range of world-leading water purification products

About Fistreem

In October 2004, Fistreem International Limited was formed with the purchase of part of Sanyo Gallenkamp Plc and its related manufacturing businesses of Water Purification. Although young in organisational terms, the company has immense experience. The management team has many years of Fistreem product experience before divesting from Sanyo Gallenkamp.

Our principal activity is in the manufacture of Water Purification. Products of which the Cyclon Water Still is recognised as a world-leading brand. Our other water purification products include:

- Calypso and Cyclon brand Water Stills
- A range of Deionisers
- Pre-treatment under the Fistreem Puri-Fi brand

Fistreem products are distributed in many countries around the world. The team includes knowledgeable and skilled support experts dedicated to outstanding customer service and support. When you buy a water still from Fistreem, each instrument undergoes an extensive checklist before shipment and includes a 1-year warranty.



Beacon House,
Nuffield Road,
Cambridge,
CB4 1TF,
UK



01223 727100



sales@fistreem.co.uk



www.fistreeminternational.com



Please refer to
www.fistreeminternational.com
for all ordering information.

Which applications can our products be used for?

While safe to drink, tap water contains numerous contaminants, and even trace impurity levels can affect various scientific applications putting your scientific data at risk.

In a laboratory, water has multiple uses, from rinsing glassware to making biological media and buffers. We understand that you need the right water for your application; this means different purity, dilution and filtration levels.

Our Fistreem range focuses on Type II Water Applications, which are used in the following ways:

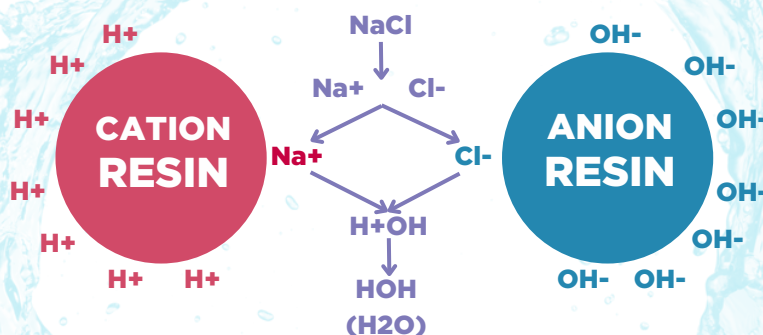
- Applications requiring higher ionic purity
- Preparing buffers and reagents
- Media production
- Sample dilution and reagent preparation
- General chemistry applications
- Glassware rinsing and washing
- General environmental analysis
- Cell culture preparation
- Clinical biochemistry



The Technology behind our systems

Did you know that water naturally contains ions? Some of these ions come from the soil, like calcium and sodium, while others come from water pipes, such as iron and copper. However, there is a way to remove most or all of these ions from water through a chemical process called deionisation. This process uses synthetic ion exchange resins to transfer the ions from the water to the beads. As a result, hydrogen and hydroxyl ions take their place, creating deionised water (DI).

Deionisation



Deionisation uses synthetic ion-exchange resins to remove ions from feedwater chemically. The water passes through the ion exchange of hydrogen and hydroxide ions for dissolved minerals and then recombines to form water.



HYDROS

Water is one of the most utilised reagents in a laboratory, so it is crucial that you have the right level of purity for the application. Tap water contains a range of contaminants and trace impurities that, while perfectly safe to drink, can affect various scientific applications.

The Fistreem Hydros Deioniser system utilises deionisation to eliminate water impurities, providing you with readily available clean water. Its compact benchtop design and easy setup make it a crucial addition to your laboratory.

Dual Delivery

Users can draw deionised water at any time from a direct feed to connected equipment or a separate outlet tap.

Conductivity Meter

With an easy-to-read conductivity meter, you can quickly and easily determine the efficiency of your cartridge.

High	<5 μ S
Medium	5-15 μ S
Low	>15 μ S

Resin Life

With feedwater containing 300mg/L total dissolved solids (TDS) levels, the output capacity can reach up to 600 litres.

Resin Regeneration

If the ion exchange resin has reached its limit, it can either be regenerated nearby or replaced with new resin if regeneration services are unavailable.

Model	WSC601.PDC.6
Conductivity Range	0.2 μ S cm^{-1} >30 μ S cm^{-1}
Tap Water Pressure	70-560KPa (10-80lbf in ⁻²)
Dimensions (HxWxD) mm	750x300x380
Weight	20kg
Resin Volume	6ltrs
Resin Material	Hydrogen Form Sulfonated Polystyrenic Copolymer
Resin Life	600ltrs of feedwater containing 300mg/L TDS



Fistreem Service Contracts

Our Service contracts (Bronze, Silver, and Gold) offer great value for money and flexibility to meet your specific needs to ensure that you find the contract that will work for you. Fistreem also offers a variety of value-added services for our water purification systems.

Installation and Commissioning

When you purchase new equipment for your laboratory the reliability and lifetime of your instruments depend on them being installed and commissioned correctly.

Service Pack

The service pack contains spare parts to ensure that your instrument continues operating smoothly throughout its life. This service pack is also available for overseas customers.

Our range of service contracts are built to fit your needs and ensure that your equipment is always performing to its best.

	Bronze Package	Silver Package	Gold Package
Length of Contract	1 YEAR	1 YEAR	1 YEAR
Onsite Visit	NO	NO	YES
Cost of Labour	YES	YES	YES
Spare Parts Covered	YES	YES	YES
Preventative Maintenance	NO	NO	YES
	Available for the Calypso system only		



Contact Us

For more information, contact
Fistreem directly at:

Beacon House,
Nuffield Road,
Cambridge,
CB4 1TF, UK



+44 (0)1223 727 100



+44 (0)1223 727 101



sales@fistreem.co.uk



www.fistreeminternational.com



Contact us at support@fistreem.com
for any support and spare parts.