

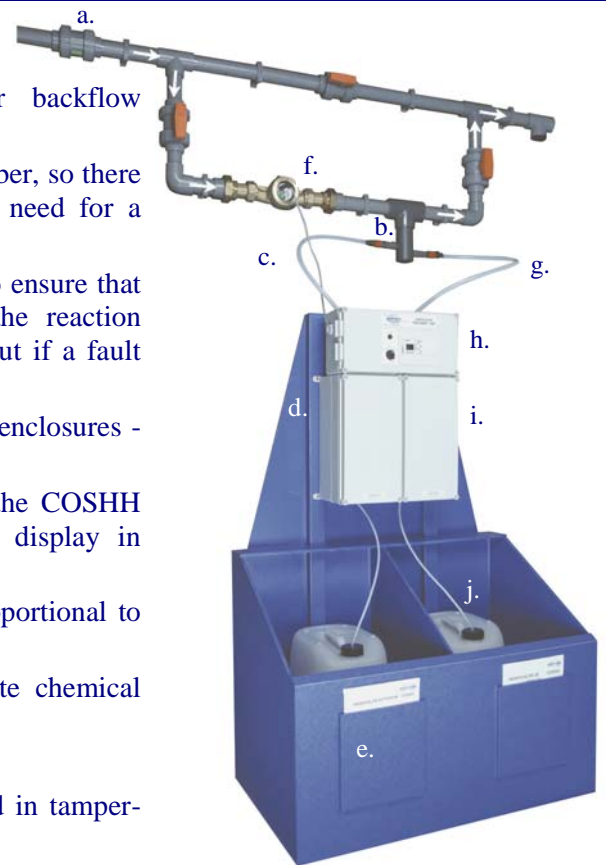
# AUTOMATIC BECHLOR TREATMENT UNIT

## FOR THE ELIMINATION OF BIOFILMS AND DISINFECTION OF WATER SYSTEMS

Based on years of experience treating potable water systems with Chlorine Dioxide, the Automatic Bechlor Treatment Unit has now been developed; this unit doses the powerful disinfectant Bechlor 935 (stabilised Chlorine Dioxide) safely and reliably into potable and other water systems.

The Automatic Bechlor Treatment Unit has been designed to use the strong oxidising power of Bechlor 935 in a safe and controlled process by incorporating important safety features:

- a. Injection manifold including a double-check valve for backflow prevention - optional but recommended.
- b. Activation of the Bechlor 935 takes place in the reaction chamber, so there is no active Chlorine Dioxide in the injection tubes or the need for a holding tank.
- c. Pulse monitors are installed in each chemical injection tube to ensure that the required amount of chemical is being pumped into the reaction chamber. These monitors will give an alarm and BMS output if a fault occurs.
- d. The unit is assembled with pumps and electronics in separate enclosures - no risk of liquid/electric contact.
- e. Each chemical enclosure is supplied with a housing where the COSHH details for Bechlor 935 and Activator A5 are clearly on display in compliance with the Health & Safety at Work Act.
- f. Contacting head water meter to ensure Bechlor dosing is proportional to water consumption.
- g. Both chemical injection tubes are double-walled to eliminate chemical spillage.
- h. Programmable logic controller with LCD display of data.
- i. The pumps and programmable logic controller can be housed in tamper-proof enclosures.
- j. The chemical drums are fitted with low-level cut-outs, which initiate an alarm and a BMS output when either chemical requires replenishment.



Chemical bunds can be provided for the Bechlor and Activator delivery drums.

The Automatic Bechlor Treatment Unit is available as a wall-mounted module only or a floor-standing unit, complete with integral chemical bunds, manufactured in rigid 9mm welded polypropylene.

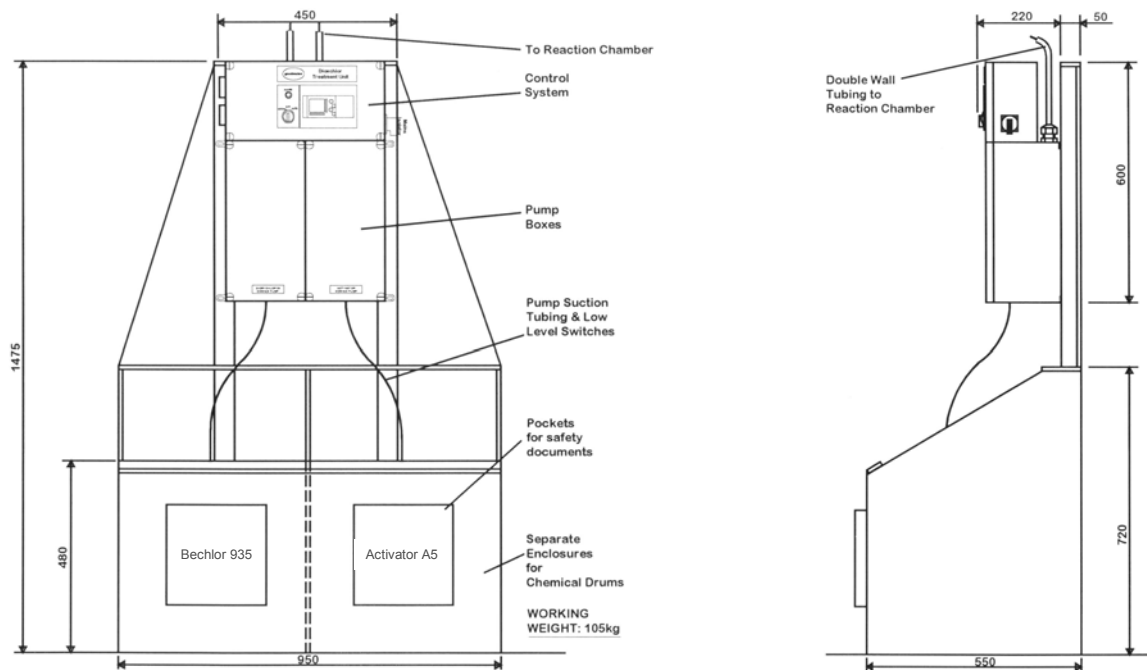


For total peace of mind manage your water hygiene by using online injection of Bechlor 935

Safe ▪ Reliable ▪ Effective

The **Automatic Bechlor Treatment Unit** comes complete with an appropriately supplied contacting head water meter. Once installed in the pipework to be dosed the meter sends a water flow rate signal to the programmable logic controller, which ensures the pump doses the correct quantity of Bechlor 935 and Activator A5 into the reaction chamber.

At this point active Chlorine Dioxide is generated and injected into the water system.



## PROGRAMMABLE LOGIC CONTROL SYSTEM

The Automatic Bechlor Treatment Unit is controlled by a programmable logic controller, thereby ensuring safe and reliable injection of chlorine dioxide into the water system. All functions can be programmed directly into the unit using the visual LCD. Data is stored in the self-protected RAM for twenty days in the event of power failure. An optional EEPROM cartridge is available for remote transfer of programme modification.

## OPTIONAL OPTIONS

- ◆ Free-standing chemical drum bunds.
- ◆ The basic model is designed for wall-mounting. A floor-standing polypropylene module is also available complete with integral moulded bunds and chemical data sheet pockets.
- ◆ Test kits are available for on-site monitoring of the chlorine dioxide level in the treated water.
- ◆ A loading valve can be supplied if the system water pressure is too low.
- ◆ Complete injection manifold.

## SERVICE

The Automatic Bechlor Treatment Unit is designed to be low-maintenance; the only routine requirement being checking and topping up of chemicals. We would strongly recommend setting up a regime to monitor the bacteriological quality of the system water on a routine basis (as detailed in HSE document L8). We can offer Service Contracts under which the sampling and chemical handling can be carried out by our trained engineers.



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