

## **Hydrodos – Chlorine Dioxide Generators**

The presence of Legionella and Pseudomonas bacteria in water supplies may cause considerable problems for both health and safety and system efficiency. Any large building with extensive pipeline systems is at risk from waterborne bacteria. Chlorine dioxide is a highly effective method of killing bacteria and preventing / minimising (amongst others) Legionella and Pseudomonas bacteria from colonising a water system. Chlorine Dioxide provides residual treatment throughout the whole system.

Our chlorine dioxide generators employ a 'two pack' approach for the feeder chemicals, and the normal route of generation can only convert 68% of these 'precursor chemicals'. However the Hydrodos range of chlorine dioxide systems employs a platinum catalytic converter to boost this conversion rate to 94%, this results in both more efficient use of the chemicals but more importantly permits a higher reserve of chlorine dioxide to be present in the (whilst remaining within its recommended limits) than other generating approaches.

The use of chlorine dioxide is one of four methods permitted by the L8 (Temperature, Chlorine Dioxide, UV/Ozone or ionisation). For water systems designed to operate with chlorine dioxide disinfection as the method for biological control, we strongly recommend that the generator be checked regularly and serviced as required.

The Hydrodos chlorine dioxide unit requires regular maintenance, such as, replacement of the catalytic columns and new peristaltic pump tubing, we recommended that the work is carried out by a qualified engineer. We are here to serve you and offer several options of service levels to accommodate our customers' requirements. The following information sets out the service levels that we currently offer.

Please note that to maintain the chemical conversion efficiency of the Hydrodos unit, the catalytic converter – the HydraVator column, needs to be replaced on a six monthly basis.

### **Hydrodos Chlorine Dioxide Disinfection Service Schedule**

- ❑ The agreement will run for twelve months and signed contracts will be automatically renewed annually.
- ❑ All replacement and repairs due to manufacturing faults will be carried out free of charge during this period.
- ❑ Replacement or repairs due to circumstances outside of Hydrotec UK Limited control (i.e. contaminants within the water supply) will not be covered and maybe charged at preferential rates separately.
- ❑ Labour for these 'outside circumstances' can be covered under the numerous Call Outs associated with each of the packages laid out below.
- ❑ Hydrotec will endeavour to carry out all 'Additional callouts' not accounted for under each of the levels within seven days of an order being received.

<b>1<sup>st</sup> YEAR SERVICE VISIT</b>	
<b>What's included</b>	<b>What's not covered</b>
Checking all parameters are set correctly and unit is operating to data performance sheets	Replacement, repair or cleaning of unit/components due to misuse/incorrect conditions
Replacement of 1 Hydro-Vator Column	
Replacement of Peristaltic pump tubing	
Checking and testing of Chlorine Dioxide and Total Oxidant levels going to service	
Checking of secondary dosing pump (for final chlorine dioxide application)	
Renewal and replacement of faulty manufactured components FOC on a PM basis	
<b>STANDARD 2 MAINTENANCE AGREEMENT</b>	
<b>What's included</b>	<b>What's not covered</b>
All elements of 1 <sup>st</sup> Year Service visit	Replacement, repair or cleaning of unit/components due to misuse/incorrect conditions
Supply of 2 Hydro-Vator Columns at a discounted rate	
Installation of Hydro-Vator Columns	
<i>Total of two extra call outs</i>	
<b>STANDARD 5 MAINTENANCE AGREEMENT</b>	
<b>What's included</b>	<b>What's not covered</b>
All elements of Standard 2 Maintenance Agreement	Replacement, repair or cleaning of unit/components due to misuse/incorrect conditions
<i>Total of five extra call outs</i>	