



## DIOXIDE MAKE - UP / DOSING UNIT

### AUTO P. DIOXIDE MAKE - PLANT LOW COST TRIAL VERSION.

- |     |   |  |
|-----|---|--|
| 1.  | Dioxide storage tank:   | Use delivery containers  |
| 2.  | Acid Storage tank:  | Use Delivery Containers  |
| 3.  | Low level alarm switches / pick - up assemblies for above containers.                                     |  |
| 4.  | 200 Litre solution make - up tank ( black MDPE ) c/w low level alarm switch / mix level control switches. |  |
| 5.  | Water in control solenoid - 1" brass - normally closed c/w IP67 coil                                      |  |
| 6.  | Water flow switch:  | Plastic paddle switch  |
| 7.  | Dioxide pump:   | Diaphragm type dosing pump adjustable output 0 - 6ltr / hr<br>polyethylene head. Viton Valves.   |
| 8.  | Acid pump:  | As Above   |
| 9.  | Out Pump:   | Diaphragm dosing pump adjustable output 0-1L / hr<br>dosing controlled by water meter.   |
| 10. | Water meter:  | Brass pulsed output  |
| 11. | Control panel:  | GPR IP65 enclosure inc. all relays, timers, switches, lamps etc for auto<br>control / make up / dosing / of dioxide solution and control of alarm and<br>cut-off circuits. |
| 12. | Mounting frame:   | Bolted steel construction.   |
| 13. | Pipework:   | Solvent welded PVC.  |

# MATERIAL SAFETY DATA SHEET

## SETTING UP

1. Connect clean water supply to water in fitting ( 1" BSPFM )
2. Connect supply cable to 240VAC 1pH 50Hz 13 amp power supply.
3. Insert dioxide pickup assembly into dioxide container.
4. Insert acid pick up assembly into acid container.
5. Ensure that the flow meter is installed in pipework and signal cable is plugged into the blue pump.
6. Turn on control panel isolator. ' POWER ON ' lamp should illuminate.
7. Turn ' MAKE UP ' switch to 'ON', water should enter tank and 'NO WATER' lamp should extinguish.

'Dioxide' and 'acid' pump will run for 10 minutes and then shut off. It will be necessary to adjust water flow to ensure a flow of no greater than 5litres per minute.

## FOR INITIAL FILL ONLY.

The strength of dioxide mix will have to be adjusted manually by adding 2 litres of dioxide and 2 litres of acid to the tank.

## OPERATION

1. With 'MAKE UP' switch in the 'on' position the correct dioxide mixture will be maintained in the stock tank. ( 1000ppm ) if the water supply should fail during make-up then the process will stop and the 'NO WATER' lamp will illuminate.

If either dioxide or acid tanks should run low then the appropriate panel lamp will illuminate and the process will stop. Restore water supply or replenish tanks to restart system.

2. To close out turn 'DOSING' switch to 'ON' position. Mixture will be dosed proportional to the water flowthrough the meter at 0.2ppm. If the stock tank runs low then the 'LOW MIX' lamp will illuminate and dosing will stop.

## preserving the environment

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