

The Watermark

The Newsletter From

Automated Water & Effluent Ltd

Winter 2011/12

NEW μ P COOLING WATER CONTROLLER

The MO5-CT-CD

We are delighted to announce the product the water treatment market has been waiting for. The MO5-CT-CD a fully featured versatile instrument designed for the control of an evaporative cooling tower.

No more long complex menus, the menus are so simple its easy to set up the MO5-CT-CD even without the manual, simply press enter and the menu guides the user through all the setting which are displayed on a large custom backlight LCD display. The MO5-CT-CD features dual biocide dosing by 28 day real time clock with pre bleed and purge lockout timers.

Water meter input for make up water flow and timed output for the inhibitor dosing pump or inhibitor dosing without the water meter by timer control.



TDS bleed controlled by a built in conductivity controller with adjustable set point, hysteresis and bleed limit timer.

There is a common alarm relay for any

of the low chemical levels, no sample flow, bleed limit timer and high conductivity values. Analogue output of 4 – 20 mA available for connection to BMS monitoring systems for conductivity. As the MO5-CT-CD is designed in Europe to make life easy it features a switch mode power supply.

Which means it will work on any supply between 100 volts and 240 volts 50 / 60 Hz AC and what's more we have provided a big wide terminal housing with lots of terminals designed to connect your cables to for your power supply,

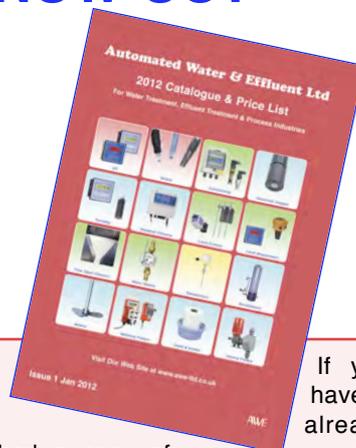
pumps and sensors. Not just a pretty face beautiful inside too. The MO5-CT-CD is supplied with our FL310T10K conductivity cell which features auto temp comp and graphite electrodes.

2012 CATALOGUE NOW OUT

Its that time of year again to present our new 2012 catalogue. We are pleased to announce our catalogue will return to the usual professionally printed catalogue now our supply chain has stabilised.

The 2012 catalogue features a new front designed in the style of our new AWEDirect web site which will go live later in 2012.

New items for 2012 are new cooling water controllers, the addition of paddle wheel flow meters and our new RDP red dosing pumps which we have been successfully supplying now for over 12 months. Covering a wide range of chemical dosing applications and we have a wide range of accessories to complement the red dosing pumps.



If you haven't already had a copy of our new catalogue, or would like a colleague to receive one, then please contact Mrs. Vera Young by telephone **01785 254597**, or e-mail vyoung@awe-ltd.co.uk.

Hello & Goodbye



We say goodbye to Mandy who is moving to a job closer to her home. The hello is to Mrs Debbie Miller who started with us in November to run our accounts department.

Debbie s hobbies include Coaching a youth football team, music and helping out with the local boy scout movement.

Technical Tips

Hypochlorite Dosing

Dosing chemicals with a low vapour pressure which include sodium hypochlorite and hydrogen peroxide is always difficult especially when installed with a suction lift from a chemical drum or dosing tank. The best solution is to install the pumps on a flooded suction, we manufacture an all polypropylene and PVC kit for this purpose. Where the dosing tank is raised off the ground and the dosing pump mounted at low level so the chemical enters the pump under gravity. For those installations where it is not possible to use a flooded we are able to offer a degassing head.



The problem when sucking the chemical reagent from the drum up to the dosing pump due to the low vapour is the gas is drawn out of the liquid in the suction tubing causing air (gas) locks in the dosing tubing. By using the degassing head liquid is taken from the head at a lower level and the vapour at a higher level being returned to the chemical drum below the liquid level so it can re dissolve into the chemical. Please note when using any degassing head the pump output is reduced to 80% of the pumps rated output due to the liquid being taken of at a lower level in the pump head.

Flooded Suction Kit

Flooded suction kit with a polypropylene stand to lift the dosing tank so the chemical feed to the red dosing pumps is by gravity. In this installation duty and standby pumps are fitted each with its own isolating valve so either pump can be isolated for maintenance without draining the tank.



THE GRAPEVINE



A regular customer of ours who came to us with the request to dose the correct level of biocide into several hundred metres of stainless steel pipe work with a number of dead legs. Our decision was to use 10 red dosing pumps which could all be set to different outputs to dose the correct level of biocide into each section of pipework to be treated. Ensuring sufficient chemical was dose to achieve the desired PPM of chemical to be effective and have a residual without over dosing and causing corrosion in the expensive pipework. Our new HY-BL series of red dosing pumps proved ideal for the job having sufficient output to over come the pressure in the system and quickly dose the required volume.

To make site installation quick and efficient we built one of our banded dosing skids to hold the 10 HY-BL red dosing pumps and the DT200 dosing tank which was located in a banded area to hold 110% of the dosing tank volume.

We built a control panel with individual hand off auto switch for each of the 10 HY-BL red dosing pumps with auto control being by a 7 electronic day timer with timing to the nearest minute.

A low level switch in the chemical tank stopped the pumps from pumping dry and operated audible and visual alarms with a mute button.

Remember, you heard it on the AWE grapevine.

Automated Water & Effluent Ltd

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