



## Combined disinfection controller for optimum and safe reclaimed water production

### DESCRIPTION:

doscontrol® is an innovative technology developed by teqma to control the water disinfection process. Based on the combination of chemical and physical disinfection, the controller is able to generate positive synergies delivering enhanced microbiology load reduction and substantial operational costs reduction.

### APPLICABILITY AND PRE-REQUISITES:

doscontrol® can be applied into new or existing disinfection treatments in water reclamation for reuse.

### FEATURES AND BENEFITS:

The combination of UV + chemical oxidation during the disinfection process increases the disinfection spectrum providing effective pathogen inactivation, including protozoa as *Giardia lamblia* and *Cryptosporidium parvum*, in addition the chemical oxidation ensures a residual concentration of biocide through the distribution network, eliminating possible regrowth.

- Adjusted dose of disinfectant (physical and chemical) to produce safe water at the lowest price.
- Fit-for-purpose production of reclaimed water, according to the required water quality (irrigation, environmental and industrial uses)
- Valuable real time information of the disinfection process
- Reduction in O&M associated costs
- Reduction of chemical associated risks as disinfection by-products



### OPERATION AND MAINTENANCE:

The system provides valuable on-line information and data management for a proper maintenance management. Besides, the operator can decide to use doscontrol® or change to the previous operational mode if desired.

### COSTS:

doscontrol® can be installed into existing or new disinfection treatment lines. An engineering phase is considered prior to the installation into existing treatments. doscontrol® does not include the necessary equipment for disinfection (e.g. UV reactor), but this can be supplied by teqma.

### REFERENCES:

doscontrol® is installed and running in Castell-Platja d'Aro (WRP), near Costa Brava in Spain.

<http://r3water.eu/demonstration-spain/>

Doscontrol will be demonstrated in the Swedish demo site in 2016

<http://r3water.eu/demonstration-sweden/>

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