

Legionella prevention Analysis, Control & Dosing

System of water quality control for cooling towers



Applications:

Cooling towers

- ➔ Against legionella
- ➔ Deconcentration management
- ➔ Inhibitor/dispersant injection
- ➔ pH measurement and control

ADVANTAGES :

- + Adapted to meet the most stringent monitoring of cooling towers with more than 10 possible actions (measures, dosing, traceability...)
- + System to ensure continuity of treatment by permutation in volume management in case of failure of sensors for measuring conductivity
- + Bleeding by measuring inductive or conductive conductivity
- + Possible control of oxidizing biocide by continuous measurement
- + Communication with COOLPAC Surveillor software
- + Many configurations proposed, high adaptability
- + Dosing control of biocides depending on the seasons (summer and winter - possibility to select cycles over several weeks)
- + Consulting current system status and previous cycles



Actions

CONTROL OF TOWER BLEEDING

Types of dilution

- Volumetric (combined volume + purging time)
- Conductivity: graphite or inductive probe

CONTROL OF 2 BIOCIDES

Types of actions for each product

- 2 types of biocides
- Dosing of biocides
 - Continuous
 - Control of oxydant measurement (on 1 biocide)
 - Programmable timer
 - Timer with control (oxydizing biocide)
- Timer injection, up to 16 timers (summer + winter timer selection)
- Injection cycle with pre-bleed and bleed locking
- In case of bleeding, priority of biocide injection
- Warranty of biocide injection time

CONTROL OF 1 DISPERSING PRODUCT AND 1 CORROSION INHIBITOR PRODUCT

Types of operation for each product

- Continuous injection
- Cyclic injection
- Injection by bleeding time ratio
- Volumetric injection depending on the filling

TOWER'S pH CONTROL

Types of controls

- Automatic injection by programmable pH
- Choice of control direction (pH+ or pH-)

Technical features

Waterproofness

Power supply

Measuring inputs

Dry contact input

Relay outputs

Analogical outputs

Communication output

- IP65
- 230 VAC 50/60 Hz 5 VA
- 1 conductive conductivity input
- 1 x 4-20 mA input for continuous measurement of oxidizing biocide: chlorine, bromine, Clo₂, H₂O₂, ozone, ORP
- 1 x 4-20 mA temperature input for conductivity measurement compensation
- 1 x 4-20 mA input for inductive conductivity probe or pH
- 1 counter pulse input + 1 remote control input + 1 flow contact input
- 1 x 230 V bleeding control relay + 1 x 230 V biocide A (oxydant) control relay + 1 x 230 V biocide B control relay + 1 x 230 V corrosion inhibitor control relay + 1 x 230 V dispersing control relay + 1 x 230 V alarm or pH control relay
- 2 x 4-20 mA programmables outputs (control or data transfers)
- Maintenance software - Coolpac Surveillor



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