

Coolpac

Legionella prevention



System of water quality control
for cooling tower

Actions realized

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
 - programmable timer
 - timer with control (oxidizing biocide)
- > Timer injection, up to 16 timers (*timer selection summer + winter*)
- > Injection cycle with pre-bleed and bleed locking
- > In case of bleeding, priority of biocides injection
- > Warranty of biocides 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

pH CONTROL OF TOWER

Types of controls

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

Type of mounting:	Wall 220x185x120
Waterproofness:	IP65
Power supply:	230 VAC 50/60 HZ 5 VA
Display:	High graphic LCD resolution with backlight
Measuring inputs:	<ul style="list-style-type: none"> > 1, conductive conductivity input > 1, 4-20 mA input for continuous measurement : oxidizing biocide chlorine, bromine, ClO₂, H₂O₂, ozone, ORP > 1, 4-20 mA temperature input for compensation of conductivity measurement > 1, 4-20 mA input for inductive conductivity probe or pH
Relay contact inputs:	<ul style="list-style-type: none"> > 1, counter pulse input > 1, remote control input > 1, level contact input
Relay outputs:	<ul style="list-style-type: none"> > 1, 230V bleeding control relay > 1, 230 V biocide n°A (oxydizing) control relay > 1, 230 V biocide n°B control relay > 1, 230 V corrosion inhibitor control relay > 1, 230 V dispersing control relay > 1, 230 V alarm or pH control relay
Analogical outputs:	2, 4-20 mA programmable outputs (controls or data transfers)
Communication outputs:	<ul style="list-style-type: none"> > RS485 compatible with COOLPAC Surveillor software > MODEM compatible with COOLPAC Surveillor software > RS232 C compatible with printer
Historical:	Cycles performed, alarms, values (conductivity...)
Direct access:	<ul style="list-style-type: none"> > CAL button to calibrate the probes > ON/OFF button for start/stop system > STATUT/HISTORIQUE button to display the state of the system and components stored in the history > MENU key for programming
Signals:	<ul style="list-style-type: none"> > 1 warning light > 4 control lights > 1 light 3 states (ON/OFF, control stop)

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

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