







# The Legionnaires' Disease Problem

## REGULATORY REFERENCES

<i>INTERNATIONAL GUIDELINES</i>	<b>Legionella and the prevention of legionellosis - World Health Organization 2007</b>
<i>EUROPEAN GUIDELINES</i>	<ul style="list-style-type: none"> <li>• <b>The European Guidelines for Control and Prevention of Travel Associated Legionnaires' Disease - vers 1.1 sept 2011</b> - former part I and II "European Legionnaires' Disease Surveillance Network (ELDSNet) Operating Procedures, ECDC Technical Document" - former part III "ESGLI/EWGLI Technical Guidelines for the Investigation, Control and Prevention of Travel Associated Legionnaires' Disease"</li> <li>• <b>European Manual for Hygiene Standards and Communicable Diseases Surveillance on Passenger Ships. EU SHIPSAN TRAINET, October 2011</b></li> </ul>

## THE BIOPHARMA SOLUTION

### LEGIONELLOSIS PREVENTION AND CONTROL PROGRAM

-  RISK ASSESMENT AND REDACTION OF PREVENTION AND CONTROL PROGRAM
-  SAMPLING PLAN FOR THE DETERMINATION OF LEGIONELLA
-  TRAINING FOR PLAN RESPONSIBLES
-  EDUCATION COURSES INCLUSIVE OF "ON JOB TRAINING" FOR MAINTENANCE TECHNICIANS
-  PROCEDURAL PLAN AND SUPPORT FOR REGISTRATION OF THE ACTIVITIES
-  ANNUAL REVIEW OF THE PROGRAM WITH CONSIGNMENT OF IMPLEMENTED DOSSIER

### PERIODICAL SANITIZATION

BIOPHARMA products are designed, formulated and manufactured exclusively for water treatment

The Active Ingredients are conform to standard of Art. 95 of Biocide Regulations, other functional components are food grade

Biopharma Products do not contains mineral acids, phosphorus, nitrogen, and metal catalysts

**BIOCHLOR\* (Medical and Surgical Device - Ministry Of Health Decree No. 19916 Dated 05 April 2013)**

Stabilised solution titrated in Free Chlorine specifically for Legionella treatment

**BIOALPHA** Food-grade fruit acid mixture for the removal of the inorganic biofilm layer

**BIODUE\*** Stabilised peracetic acid for the oxidation and disinfection of the organic biofilm component

**BIOZONO AG+DL\*** Bio-oxidant for anti-legionella treatments in heating circuits and cooling towers; contains hydrogen peroxide and silver ions

**BIOZONO AG+DL P\*** Bio-oxidant for anti-legionella treatments in heating circuits and cooling towers; contains hydrogen peroxide and silver ions; for domestic hot water circuits, with an anti-corrosion and anti-scale effect.

**BIOGLAYD** First formulation based on glycolic acid specific for dispensers descaling

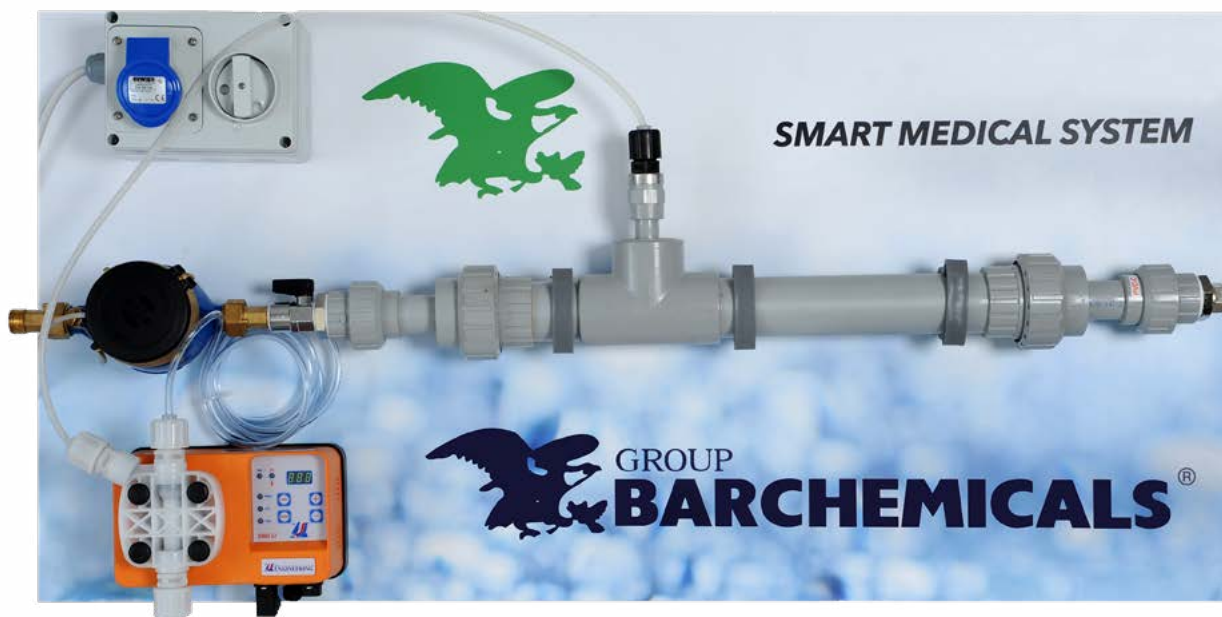
**BIOSHIELD** Tannic grape extracts replace polyphosphates in protecting pipes and removing excess cations

**BIOSAN DL** Polyquaternium with a broad spectrum of activity, non-foaming, for the prevention of Legionella in evaporation towers, industrial water and heating circuits.

**\*BPR (BIOCIDES REGULATION) registration in progress**



**CONTINUOUS PREVENTION**

**AN AID TO THE LEGIONELLA PREVENTION AND CONTROL PROGRAMME**



**SMART MEDICAL SYSTEM**

*For the microdosing of Anti-Legionella biocides*

-  Maximum ease of installation and management
-  BioVitrum Ag+ increases the efficacy of Anti-Legionella biocides

CONTINUOUS DOSING SYSTEMS DEVELOPED IN ACCORDANCE WITH THE MINISTRY OF HEALTH DECREE 07 FEBRUARY 2012