



## Legionella Prevention On Sites with Previous Deaths

By: Mike Dewar

When Madrid based dealer ECTE approached ECOsmarte corporate in Minneapolis, MN in 2003 about seeking European Union certification on its electronics for the prevention of Legionella, ECOsmarte CEO Larry Couture was initially excited.

***“When I found out we had to prove ourselves at two grocery store sites where death had occurred due to produce sampling, I discouraged the dealer.”***

The Ministry of Health in Madrid required weekly water tests to confirm zero microbe present. This protocol was designed prior to US health experts at Johns Hopkins University recommending ionization as the best method as part of a redundant approach to prevention of Legionella in 2003.

“This is a very difficult arena, about the same month Johns Hopkins published the study recommending ionization we had a death in a Minneapolis hospital where the patient drank from the cold water tap in the bathroom despite signs posted warning against it,” continued Couture.

Couture said ECOsmarte contacted the hospital’s facility personal the day after the news event to offer free equipment and was rebuffed. “We had a similar response around 9/11/2001 when a motel in southwestern Minnesota had a multiple person event,” he added.



Couture said eventually those companies that already service the properties at risk will need to install and recommend ionization equipment Risk Managers have probably told personnel the liability increases to the extent they chose not to purchase preventative equipment, according to both plant Superintendents and Risk Managers.

Current Methods, as cited by the Johns Hopkins study, involve response to the microbe such as super chlorination and super heating the water after a Legionella event and do little to prevent occurrence.

Legionella is an airborne microbe and forms biofilms functionally immune to chlorine at levels tolerable to humans. Couture said after 20 years conventional commercial and industrial water companies have finally started reselling ECOsmarte equipment.

***ECOsmarte received the first Certificate of Efficacy for the prevention of Legionella by device from the Ministry of Health (Madrid) for the European Union.***

(See Reverse Side)



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## TECHNICAL SPECIFICATIONS

### MECHANICAL & PLUMBING

Operating Press. Max. 150 PSIG  
Operation Temp. Max. 120° F  
Tank listing and structural integrity requirements only.

OXYGEN ELECTRODES  
Proprietary composite material

IONIZATION ELECTRODES  
100% Pure Copper

### ELECTRICAL

Input Voltage: 110 to 387 Volts, Specify  
Output Voltage: 100 VA Class UL CSA  
Compliance Power Supply  
GPM: Each Unit 46 GPM to 200 GPM

Large Sumps or More Than 35,000 Gallons Per Day  
Systems May Require More Than One Electronics Package.

**Redundant Strategies Recommended  
Ionization with Chlorine Dioxide or UV.**

Certificate of Efficacy from the Ministry of Health for the European Union



ECOsmarte installs a side stream Glass Pack® filter on cooling sumps in addition to treating the water at the Point-Of-Entry. Facilities personnel confirm copper residuals each shift and the ECOsmarte system is compatible with all conventional forms of water treatment. ECOsmarte recommends POINT OF ENTRY ionization on all legionella sites.

200 GPM Point-Of-Entry



A simple copper test kit confirms legionella, fusaria and ecoli from the Point-Of-Entry to the point of use.

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