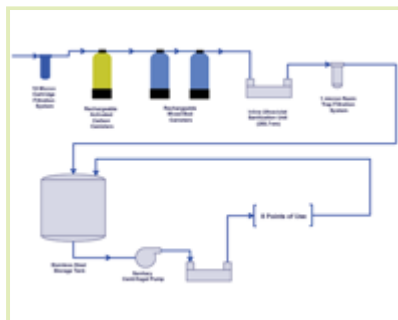


A Critical Evaluation of the Use of 185 nm Wavelength Inline Ultraviolet Sanitization in Compendial Water Systems

By **William V. Collentro** Jan 10, 2013 4:08 pm EST



INTRODUCTION Compendial water systems have used inline ultraviolet sanitization units emitting radiation at a wavelength of 253.7 nanometers (nm) for several years. These units inactivate bacteria by modifying DNA/RNA such that organisms will not replicate (1). Some concerns associated with “sub-lethal” inactivation have been expressed by regulatory personnel (2). Regulatory concerns have been documented associated with the ability of the technology to inactivate bacteria by several logs (3). Furthermore, the literature indicates that photo-reactivation of certain organisms may be a concern...

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