

ELIMINATION TECHNIQUES OF MICROBIOLOGICAL AGENTS IN WATER PURIFICATION PROCESSES WITH UV RADIATION

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Abstract: Water represents one of the critical resources concerning the durable development, both by its position of a base resource and also for its contribution in generally development for life support or in eradication of poverty. Water is essential for industrial, agricultural, services development and for energy production, for ecosystems conservation or to ensure a good population health. The research regarding the possibilities of water disinfection with ultraviolet radiations aims at integrating a number of functions such as:

- ✓ LCD screen layout of the programming module, of the level of UV radiation, of the number of functioning hours for every UV lamp;
- ✓ the automatic control of the UV radiation flux between 100%...150%;
- ✓ audio and visual alarm in case of decrease of the level of UV radiation between 100%...110%;
- ✓ external audio and visual alarm, GSM signal transmission in case of decrease of the level of UV radiation under 100%;
- ✓ the possibility of blocking the exit circuit by the automatic command of an electric valve.

Keywords: UV radiation, prototype, water disinfection