LUMINOR's full line of products are designed, engineered and assembled in Canada with the highest quality components.



Specializing in non-invasive, environmentally friendly ultraviolet disinfection technologies, LUMINOR designs and manufactures safe, easy to use, and value driven UV based solutions for home, industry and small municipal applications.

For more information on which UV system is right for you, please visit www.luminoruv.com.



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DISCOVER THE BENEFITS OF UV WATER DISINFECTION

Is Your Water **Safe?**

With the growing number of harmful substances and increased issues with water contamination, clean water is more important than ever, for the health and safety of your family.

Water may be deemed unsafe (non-potable) for many reasons, however the most likely is due to the presence of disease-causing microorganisms. These contaminants may be in your water supply for many reasons; agricultural run-off, malfunctioning septic systems, animal waste, municipal equipment failure, etc.

There are generally two methods specifically for the disinfection of water. Chemical disinfection using chlorine, and physical disinfection (boiling). Both processes take time to make the water safe and also use unnecessary energy. In the case of chlorination, the possible creation of disinfection by-products may also be potentially carcinogenic!

Another physical treatment method is ultraviolet light disinfection. UV light is safe, easy to use, environmentally friendly, and provides virtually immediate disinfection without altering the taste, odor, or adding any chemicals to the water.

Benefits with UV Disinfection

The advantages of UV disinfection over other disinfection methods include:

Safe & Environmentally Friendly

- UV uses no chemicals and forms no disinfection by-products (DBP's) or residuals
- No need to handle potentially dangerous chemicals (chlorine)
- · No regrowth of viruses, bacteria and parasites
- · Does not add any chemical taste or odor to the water
- Destroys harmful microorganisms

Simple to Install, Operate, and Maintain

- · No moving parts to wear out or break
- Only yearly lamp replacement (provided water quality parameters are met)
- Immediate contact time (no need for contact or storage tanks)

Inexpensive to Operate

- Lower equipment investment versus other disinfection options
- Low power consumption

The Result is Pure, Safe, Environmentally Friendly Water with UV Disinfection

How Does UV Water Disinfection Work?

UV is known to be an effective disinfectant due to its strong germicidal (inactivating) ability. UV disinfects water containing bacteria and viruses and it is effective to control against *Giardia lamblia, E. coli and Cryptosporidium.*

Within a properly designed UV system, the process of disinfection occurs very rapidly. As water runs through the UV reactor it is exposed to UV light that the lamp gives off, causing a genetic change in the microorganisms that are present in the water.

Once microorganisms are exposed to UVC light they are rendered 'inactive' and can no longer replicate – This process inactivates microorganisms, sanitizing the water as a result.

