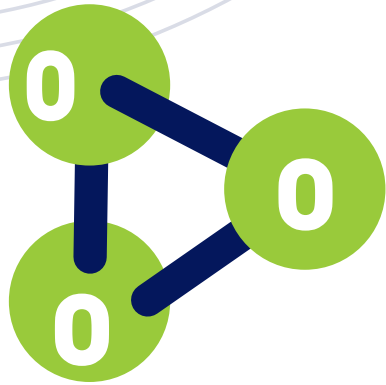


benefits & applications of ozone technology in ultrapure water systems.



- Ozone is the triatomic form of oxygen
- Ozone is the strongest commercial oxidizing agent
- **50% stronger than chlorine**



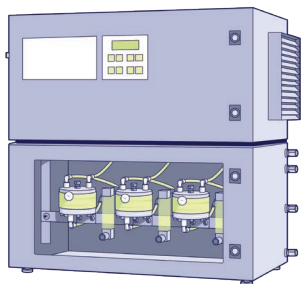
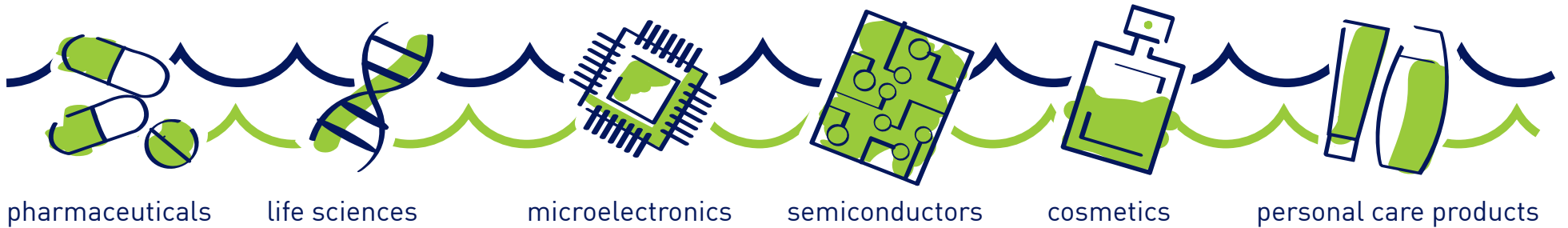
Ozone has unique ability to do many things at the same time:

- Disinfection
- Endotoxin control
- Biofilm prevention
- Water loop sanitation



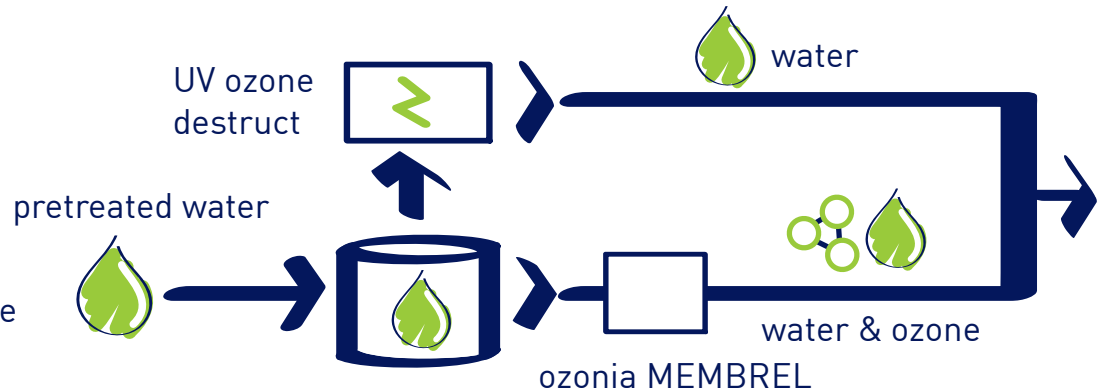
applications of ozone technology

Ozone is used extensively in several industries as a best practice for **securing UPW quality**



how it works

ozonia* MEMBREL electrolytic technology produces ozone directly from UPW using a membrane



benefits of electrolytic ozone technology

- Eliminating the gas contacting system lowers cost and allows easier implementation / retrofit
- Eliminates potential for feed gas impurities - reduced byproduct & ionic contamination

- pure >>** Reduce impurities because the feed water is being dissociated using a membrane
- easy >>** The process water is the source for ozone generation
- safe >>** High system integrity because there is no possibility of external contamination
- light >>** Minimum piping and equipment requirement with the ozonia MEMBREL system

ozone technology provides continuous protection of water & product quality

unlike shock disinfection techniques like steam

- **Cost and effort** can be reduced by changing operating and design philosophy from reactive to proactive - **promote prevention and continuous protection**
- Disinfection & biofilm prevention

ozone technology allows easy UPW loop sanitation

- **Simply turn off ozone destructor** to sanitize UPW loop
- Reduce sanitation time & cost



ozone technology increases yields and production uptime

- Reduce unplanned shut downs for disinfection

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