



# ozonia<sup>®</sup> IGS+

## Intelligent Gap System Plus (IGS+)

ozonia<sup>®</sup>'s innovative and cost effective dielectric technology  
for next generation ozone systems

ready for the resource revolution





the new **ozonia® M**  
uses the IGS+ technology

# ozonia® IGS+ a history of innovation

The **ozonia® IGS+** electrode system is Suez' latest creation, building upon **ozonia®**'s long heritage of innovative ozone generation concepts.

The use of ceramic materials for **Advanced Technology (AT™)** offers huge improvements over glass electrode technology: optimized discharge characteristics, enhanced manufacturing accuracy, and greater discharge uniformity. **Intelligent Gap System (IGS)** technology further exploits the benefits of **AT™** by tailoring discharges through the entire ozone generation process.

The groundbreaking **ozonia® IGS+** dielectric system is based on a completely new dielectric concept with enhanced geometry, tighter tolerances, and fine-tuned manufacturing techniques. **ozonia® IGS+** further optimizes electric discharges from inlet to outlet, resulting in a more robust and efficient ozone generation process.

With **ozonia® IGS+**, it is now possible to increase ozone concentration and production capacity, without increasing power consumption. Ozone systems equipped with this technology can easily provide stable ozone concentrations of up to 16 wt%, setting new standards for commercial ozone production worldwide.

**Ozonia®**'s new state-of-the-art **IGS+** technology reduces the energy used to generate ozone by up to 25% while increasing the maximum production capacity up to 20%. Like previous **ozonia®** electrode innovations, **ozonia® IGS+** technology is fully compatible with previous **ozonia®** products, offering our customers the opportunity to retrofit their existing equipment with this revolutionary new technology.

## technology highlights

- ▶ ozone concentrations up to 16 wt%: continuously and reliably
- ▶ the lowest power consumption on the market: up to 25% energy savings
- ▶ increased ozone gas pressure up to 3.0 bar
- ▶ industry leading robustness and reliability



## high concentration ozone reduces:

- ▶ LOX storage and utilities
- ▶ ozone contacting
- ▶ ozone destruction
- ▶ equipment heating
- ▶ equipment redundancy and other infrastructure
- ▶ requirements
- ▶ footprint
- ▶ operation and maintenance demands
- ▶ utility consumption

# ozonia® IGS+ greener than ever

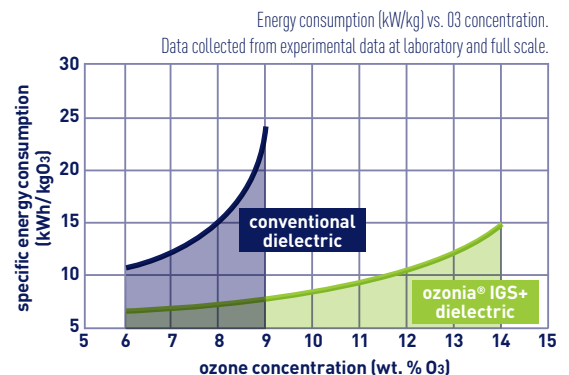


ozonia®'s IGS+ technology assures cost savings in energy and feed gas consumption establishing ozonation as an efficient and environmentally friendly solution for the replacement of chlorine and other chemicals.

## trust a proven leader

Over 1,000 kilograms of ozone are produced every hour around the world using **ozonia® IGS** technology. In addition to its commercial success, **ozonia® IGS** technology has been honored with several international awards:

- ▶ In 2007, a SUEZ Initiative Innovation award and intellectual property rights were granted for the innovative **ozonia® IGS** technology.
- ▶ In 2010, the **ozonia® IGS** technology won the European IWA Project Innovation Awards, an award recognizing excellence and innovation in water engineering projects throughout the world.
- ▶ In 2017, the **next generation ozonia® IGS+** system was honored with the SUEZ Innovation Trophy for Industrial Technology.



## the economy of ozonia® IGS+ technology makes ozone an effective solution to address the technical and economical challenges of water treatment

### increased maximum capacity

- ▶ up to 20% increased production capacity

### reduced energy consumption

- ▶ up to 25% less energy consumption

### higher pressure

- ▶ wider range of pressure available up to 3.0 bar
- ▶ improved performance and reduced costs for ancillary systems

### higher concentration

- ▶ improved performance at higher concentrations
- ▶ ozone concentration up to 16 wt%

SUEZ's **ozonia**® ozone technology portfolio includes products from the laboratory scale to the largest ozone systems ever built. Suez uses our extensive ozone technology experience to provide the industry's most reliable and robust products.

Our unique ability to deliver the most reliable and robust systems is why thousands of customers around the world have chosen **ozonia**® ozone systems.

We have been the ozone industry pioneer for over 25 years. Trust SUEZ to deliver the highest quality ozone solutions to meet your treatment challenges.

**7**  
product ranges  
certified to  
international  
standards

over  
**10,000**  
installations

over  
**25**  
years of  
experience



★ offices and production centers  
● offices

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