The ozonia® CFS range is designed for small to medium sized ozone applications. The ozonia® CFS range incorporates the same robust industrial technology as larger ozonia® ozone systems.

**applications**
- drinking water
- bottling water plants
- cooling towers
- aquaculture
- food & beverage
The **ozonia® CFS** range is designed for **small to medium-sized ozone applications**. The design is based on feedback from hundreds of operators and includes the latest technology to ensure continuous operation at full-load in industrial environments.

An **ozonia® CFS** compact ozone generator includes the ozone generator, the medium-voltage power supply to the generator, control system, process related control equipment and interconnections. The control system ensures flexible operation and allows integration into all types of plant concepts.

**how it works**

Ozone, the triatomic form of oxygen, is generated by recombining oxygen atoms with oxygen molecules. This process takes place in the gap between the dielectric layer on the high voltage electrode and an earth electrode in the ozone generator. When high voltage is applied to this arrangement, a silent electrical discharge occurs in the gap. This excites the oxygen molecules in the feed gas flowing through the gap, which causes them to split and combine with other oxygen molecules to form ozone.

**product highlights**

- high performance
- compact and versatile
- low-cost
- high ozone concentration
- low power
- user friendly
- easily integrated
- low service requirement

**main features**

- robust ozonia® advanced technology (AT dielectrics)
- high ozone concentration at full-load
- very compact dimensions for easy integration
- low maintenance & service personnel requirement
- high adaptability: ozone production range 4-100%
The recommended concentration range is between 6 wt% and 12 wt% when fed with oxygen and 3 wt% to 5 wt% when fed with dry air.

### Technical Features

- **Voltage ozo尼亚® CFS-1 & CFS-3:**
  1 x 230/207 VAC ± 10%
- **Voltage ozo尼亚® CFS-7 & CFS-14:**
  3 x 400/480 VAC ± 10%
- **Frequency:** 50/60 Hz
- **Ambient Temperature:** +5 to 40ºC
- **Design Altitude:** < 1,000 m.a.s.l.
- **Humidity:** RH < 65% (yearly average)
- **Feed Gas Inlet Pressure:** 3 to 8 bar (g)
- **Cooling Water Pressure:** 2 to 6 bar (g)

### Materials

- **Enclosure:**
  Power coated mild steel
- **In Contact with Ozone:**
  Stainless steel 316, PTFE, PVDF, Viton
- **In Contact with Water:**
  PE, brass, stainless steel 304/316

### Remote Control and Alarms

- **Ozone Production On/Off**
- **Set Value (4 to 20 mA)**
- **Gas Valve Open**
- **Alarm Bits**

### L x H x W and Weight

<table>
<thead>
<tr>
<th>Model</th>
<th>L x H x W (inch)</th>
<th>L x H x W (mm)</th>
<th>Weight (lb)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>ozo尼亚® CFS-1</td>
<td>28.4 x 31.5 x 14.6</td>
<td>720 x 800 x 370</td>
<td>155</td>
<td>70</td>
</tr>
<tr>
<td>ozo尼亚® CFS-3</td>
<td>28.4 x 31.5 x 14.6</td>
<td>720 x 800 x 370</td>
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<td>51.2 x 57.1 x 26.4</td>
<td>1,300 x 1,450 x 670</td>
<td>926</td>
<td>420</td>
</tr>
</tbody>
</table>
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.