



## FG-OF Series

### TECHNICAL DATA

Item	Unit	FG-OF
Ozone Output	g/hr	20
Power	w	750
Electric	VAC/Hz	220-240/50-60
Oxygen Concentration	%	90±5
Oxygen Flow Rate	L/Min	5
Ozone Concentration	mg/l	Oxygen supply:50~80
Output Pressure	Kg/cm2	2.0±0.5
Size(L*W*H)	Mm(inch)	500*370*880 (19.69*14.57*34.65)
Weight	kg	46
Cooling System(5-20°C)	/	Air Cooling
Inner Air Compressor	Yes/No	Yes
Ambient Humidity	%	<70
Ambient Temperature	°C	<40
Warranty	months	12





## OVERVIEW



The FG-OF series of unit utilises oxygen from the internal oxygen generator as a gas source, and high concentration ozone is generated by the Corona Discharge ozone generation technology. The equipment has an integrated oil-free air compressor, filtering system, PSA oxygen generator, and condenser.

These products have been the designated products of many domestic and overseas well-known beverage and food companies, such as Coca-Cola, Nestle and many more!

## FEATURES

- The equipment utilises a molecular sieve as adsorbent and pressure swing adsorption (PSA) process to separate oxygen and nitrogen and filters harmful substances from the air. The high-level oxygen is created which meets the standard of medical oxygen. PSA oxygen generating equipment provides you with the purity of 90%-95% oxygen to meet all requirements for ozone generation, with installation and operation costs far less than cylinder or liquefied oxygen.
- These units come with many safety features such as multi-point malfunction monitoring, main board temperature detection, high voltage transformer temperature detection, over current protection detection, etc. The equipment stops operation and the corresponding fault indicator on the circuit board lights up when a fault is detected.
- The equipment utilises large power IGBT modules being extremely stable, highly efficient, with a long lifespan. They also contain dehydroxylation quartz glass structure dielectric, air cooling parts, and other world-class essential components with a world-leading intelligent design.
- Adjustable oxygen flow rate, which will change ozone output & concentration to suit varying requirements.
- Also contains an ultra-filter and condenser for removing water in the air which can protect the oxygen & ozone unit for long service life in good working conditions.
- Ozone output adjustable, with a low noise level.
- The whole gas circuits work in a low pressure which makes the machine safe and reliable.
- Stainless steel case and SUS304 ozone outlet.





## COMPONENTS


- One set of A-B towers oxygen generation units (patented)
- Solenoid valves (Japanese CKD and SMC, AIRTAC, SNS from Taiwan)
- Switch board
- Stainless steel ozone outlet
- Condenser
- Gas flow meter, Ammeter
- Inner oil-less air compressor
- Corona discharge ozone generation unit
- Ozone regulation knob (Range: 20-100%)
- Inner ultra-filters



## APPLICATIONS

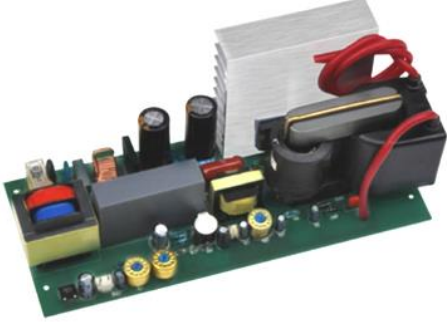

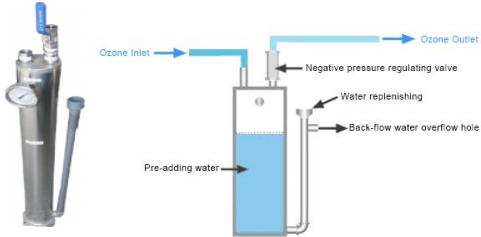
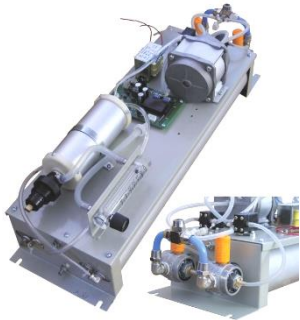
- Swimming Pools & SPA
- Commercial Laundry
- Bottled/Drinking Water
- Food Processing
- Remove Odors/Bacteria
- Wastewater
- Fruit & Vegetable Rinse

## STRUCTURE

Corona discharge ozone generator	Description
	<ul style="list-style-type: none"> <li>● High Efficiency: 800-1000g/m<sup>2</sup>;</li> <li>● Less Power, High-frequency corona discharge</li> <li>● Power Consumption Rate: 10-12KW.h/kg</li> <li>● Non-disruptive: High dielectric constant, low loss and high efficiency cooling system</li> <li>● Quartz Tube: Imported high-pressure sintering of highly quartz glass</li> <li>● Air cooling system</li> </ul>
Ozonator special power supply	Description





	<ul style="list-style-type: none"> <li>● Main components from Siemens (IGBT, IGBT power module)</li> <li>● Circuit control is composed of sync pulse trigger circuit, current-voltage reactive circuit, DSP chip, etc-PID circuit control</li> <li>● Multi-point malfunction monitoring: Over temperature protection, over voltage protection and over current protection</li> <li>● Ozone concentration is adjustable via frequency-converter control system</li> </ul>
<p><b>GSE Oilless Air Compressor</b></p>	<p><b>Description</b></p>
	<ul style="list-style-type: none"> <li>● Adopting international famous air compressor</li> <li>● Permanently lubricated bearings</li> <li>● Oil-less, non-lubricated cup and cylinder</li> <li>● Customized damping spring</li> <li>● Thin wall cylinder for good heat transfer</li> <li>● Recoverable thermally protected motor</li> <li>● Low heat generation and can last up to 40,000hrs of use</li> </ul>
<p><b>Back Water Flow Protection Device *</b></p>	<p><b>Description</b></p>
	<ul style="list-style-type: none"> <li>● Back water flow protection device for swimming pool ozone generator</li> <li>● Housing: Stainless Steel 304</li> <li>● “*” Optional. \$160.00/Set</li> </ul>
<p><b>PSA Oxygen Generator</b></p>	<p><b>Description</b></p>
	<ul style="list-style-type: none"> <li>● PSA oxygen generator uses air as raw material and high-quality molecular sieve adsorbent, and adopts the principle of pressure swing adsorption (PSA) to directly separate oxygen from nitrogen at normal temperature</li> <li>● Oxygen of high purity is 90-95%</li> <li>● Pressure transmitter is imported Motorola Inc</li> <li>● France CECA zeolite molecular sieve</li> <li>● Patent pneumatic control reversing valve</li> </ul>

