OZAT® CFS OZONATORS

Air & Oxygen Fed Compact Ozone Generators

QUALITY | LOW-COST | VERSATILITY | PERFORMANCE

← Applications

- Bottled water plants
- Cooling towers
- Aquaculture

← Main characteristics

- Advanced technology
- Fully assembled and tested
- Compact dimensions

The OZAT® CFS ozone generators are a range of small units that incorporate the same features as Ozonia's larger units such as AT dielectrics and IGBT power electronics.

MAIN FEATURES

→ Production rates from 3 to 52 lb/d from oxygen or 2 to 25 lb/d from air

→ Robust industrial quality for reliability and long service life

→ High ozone concentration

→ Very compact dimensions for easy integration

→ Low maintenance and service requirements

→ Lastest generation technology

OZAT® CFS SPECIFIC TECHNOLOGY

The CFS range is Ozonia's second generation development of OZAT® generators 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 OZAT® CFS unit integrates an ozone generator, a medium frequency power supply control system 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 which 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 specific power
→ User friendly
→ Easily integrated
→ Low service requirement

TECHNICAL DATA

OZAT® CFS Model	Ozone Production			Oxygen Requirement		Air Requirement	Operating pressure		Cooling Water
	Oxygen 6 wt%	Oxygen 10 wt%	Air 3 wt%	6 wt%	10 wt%	3 wt%	Oxygen	Air	
	lb/d	lb/d	lb/d	SCFM	SCFM	SCFM	psi	psi	gpm
CFS-1	4.0	3.0	2.0	0.53	0.23	0.56	10	29	0.4
CFS-3	12.0	8.5	6.0	1.56	0.69	1.72	10	29	1.2
CFS-7	26.5	19.5	12.5	3.41	1.54	3.64	14.5	29	2.5
CFS-14	52.0	38.5	25.0	6.71	3.0	7.12	14.5	29	4.8

The recommended concentration range is between 6wt% and 12wt% when fed with oxygen and 3wt% to 5wt% when fed with dry air.

Technical Features

- **Ambient temperature:** +41 ... 104°F
- **Design altitude:** <3280 ft .a.s.l.
- **Humidity:** RH<65% (yearly average)
- **Voltage:** CFS-1 & CFS-3: 230V/1PH/60Hz
  CFS-7 & CFS-14: 480V/3ph/60Hz

Standards

- **Design standards:** SN-EN, IEC, ISO
- **Protection class:** NEMA 12 (IP 42)

Remote controls and alarms

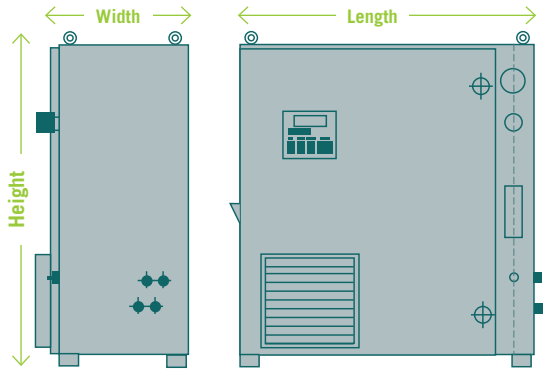
- **Supply ON/OFF**
- **RESET**
- **Gas valves OPEN**
- **Enable REMOTE**
- **Production STOP**
- **Collective ALARM**

Materials

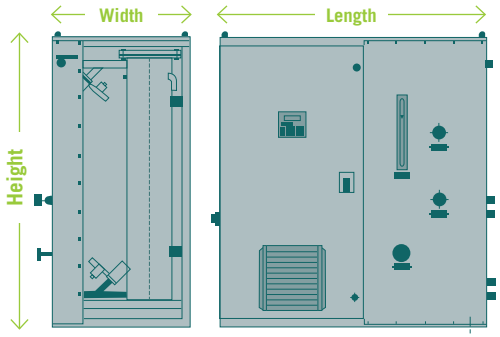
- **Enclosure:** powder coated mild steel
- **In contact with ozone:** stainless steel 316, PTFE, PVDF, Viton
- **In contact with water:** PE, brass, stainless steel 304/316

DIMENSIONS

OZAT® CFS Model	l x h x w	Weight	Gas connection	Water connection
	inch	lb	inch	inch
CFS-1	28 x 32 x 15	~ 200	1/2 NPTF	1/2 NPTF
CFS-3	28 x 32 x 15	~ 210	1/2 NPTF	1/2 NPTF
CFS-7	39 x 32 x 18	~ 420	1/2 NPTF	1/2 NPTF
CFS-14	51 x 57 x 27	~ 1100	3/4 NPTF	3/4 NPTF



Types: CFS 1, 3 & 7 (typical)



Type CFS -14

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