



QUALITY

LOW-COST

VERSATILITY

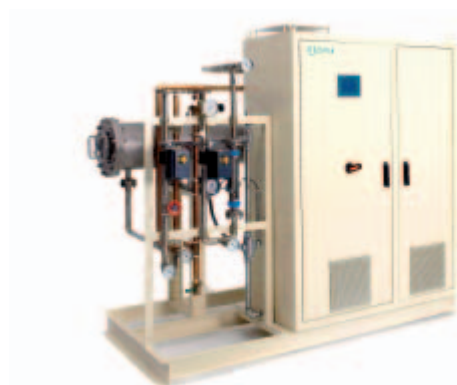
PERFORMANCE

← Applications

- Drinking water treatment
- Effluent treatment
- Process related use

← Main characteristics

- Advanced technology
- Fully assembled and tested
- Compact dimensions



MAIN FEATURES

The OZAT® CFV ozone generators incorporate Ozonia's patented "Advanced Technology" dielectric segments together with a state-of-the-art IGBT power supply unit.

- Production rates from 70 to 835 lb/d from oxygen
- High ozone concentration
- Robust industrial quality for reliability and long service life
- Skid mounted with a small footprint for easy integration

- Minimum maintenance and service personnel requirement
- Choice of PLC with user friendly interface and optional bus
- Water cooled horizontal vessel type ozone generator
- The OZAT® CFV series is also available for air feed

OZAT® CFV SPECIFIC TECHNOLOGY

The CFV range is Ozonia's latest development of generators for 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. A feature of the larger units is the fused dielectric tubes which makes them particularly suitable for remote service in drinking water plants.

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 vessel. 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.

An OZAT® CFV unit integrates from the ozone generator, the power supply for the high voltage medium frequency supply to the generator, PLC control, process related control equipment and skid interconnections. The PLC system and optional bus ensures flexible operation and allows integration into all types of plant concepts.

Product Highlights

- High performance
- Compact versatile skid
- Low-cost
- High ozone concentration
- Low specific power
- User friendly
- Easily integrated
- Low service requirement

TECHNICAL DATA

CFV Model	Ozone Production		Oxygen Requirement		Outlet pressure	Cooling Water
	6 wt%	10 wt%	6 wt%	10 wt%		
	lb/d	lb/d	SCFM*	SCFM*		
CFV-02	90.2	69.8	11.6	5.4	10	8
CFV-03	137.6	104.8	17.5	8.1	10	12
CFV-04	177.9	140.2	23.4	10.8	10	16
CFV-05	275.1	212.2	35.5	16.4	10	25
CFV-10	560.9	434.4	72.6	33.6	10	51
CFV-15	853.8	657.7	109.8	50.8	10	77
CFV-20	1086.8	836.6	139.4	64.6	10	97

The recommended concentration range can be selected between 6 wt% and 12 wt%

* Standard conditions referenced to 14.7 psia, 70°F and 0% R.H.

► Standards

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

► Materials

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

Technical Features

- **Ambient temperature:** +41...104°F
- **Design altitude:** < 3280 ft.a.s.l
- **Humidity:** RH < 65% (yearly average)
- **Power supply:** 480V/3PH/60Hz
- **Cooling water temperature:** 68°F
- **Inlet pressure:** 35-115 psig

► Remote controls and alarms

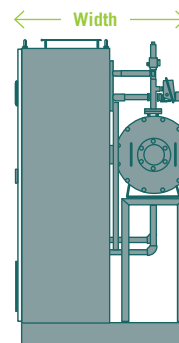
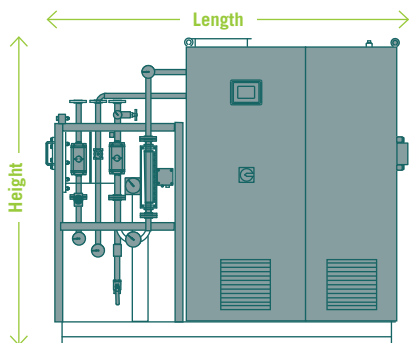
- **Supply ON/OFF**
- **RESET**
- **Gas valves OPEN**
- **Enable REMOTE**
- **Production STOP**
- **Collective ALARM**

► Options

- **Choice of PLC (Siemens, Allen Bradley, Schneider)**
- **Bus system (Profibus, Modbus, Ethernet, DeviceNet)**
- **Power-cut and lightning protection**

DIMENSIONS

OZAT® CFV Model	I x h x w	Weight	Gas Inlet	O ₂ Outlet	Water In-Out	Pressure relief outlet
	inch	lb	inch	inch	inch	inch
CFV-02	89 x 79 x 41	~1764	1" FLG	1" FLG	1" FLG	1" NPT
CFV-03	89 x 79 x 41	~ 1985	1" FLG	1" FLG	1" FLG	1" NPT
CFV-04	89 x 79 x 43	~ 2205	1" FLG	1" FLG	1" FLG	1" NPT
CFV-05	114 x 85 x 60	~ 4410	1-1/2" FLG	1-1/2" FLG	1-1/2" FLG	1" NPT
CFV-10	114 x 86 x 66	~ 4520	2" FLG	2" FLG	2" FLG	1" NPT
CFV-15	114 x 86 x 66	~ 6395	2" FLG	2" FLG	2" FLG	1-1/4" NPT
CFV-20	128 x 89 x 76	~ 6614	3" FLG	3" FLG	2" FLG	1-1/4" NPT



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