



### QUALITY

### LOW-COST

### VERSATILITY

### PERFORMANCE

### ← Applications

- Drinking water treatment
- Effluent treatment
- Process related use

### ← Main characteristics

- Advanced technology
- Fully assembled and tested
- Compact dimensions



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

## MAIN FEATURES

- Production rates from 1.32 to 26 kgO<sub>3</sub>/h from oxygen
- High ozone concentration at full-load
- 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 Serie is also available for air feed gas

### 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.

An OZAT® CFV unit is integrated 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.

### 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.

### Product Highlights

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

## TECHNICAL DATA

OZAT® CFV Model	Ozone Production kg/h	Ozone Concentration wt%	Outlet Pressure bar(g)	Oxygen Requirement Nm³/h	Cooling Water m³/h	Power Consumption kW
CFV-02	1.32	10	< ~0.8	9.20	1.9	14
CFV-03	1.98	10	< ~0.8	13.80	2.8	20
CFV-04	2.64	10	< ~0.8	18.40	3.7	26
CFV-05	4.00	10	< ~0.8	27.88	5.6	39
CFV-10	8.21	10	< ~0.8	57.00	11.5	78
CFV-15	12.43	10	< ~0.8	86.30	17.4	118
CFV-20	15.81	10	< ~0.8	109.87	22.0	151
CFV-30	26.00	10	< ~0.8	180.0	35.0	257

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

### ► Standards

- **Design standards:** EN, IEC, ISO, SN
- **Protection class:** IP42
- **Conformity:** CE

### ► 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

- **Humidity:** RH < 65% (yearly average)
- **Design altitude:** < 1000m.a.s.l.
- **Ambient temperature:** +5...40°C
- **Voltage:** 3 x 360...495 VAC
- **Frequency:** 50 / 60 Hz
- **Feed gas inlet pressure:** 3 to 8 bar (g)
- **Cooling water pressure:** 2 to 6 bar (g)
- **Cooling water inlet temp:** 20°C / 68°F

### ► Remote controls and alarms

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

\*CFV-30 Emergency Stop

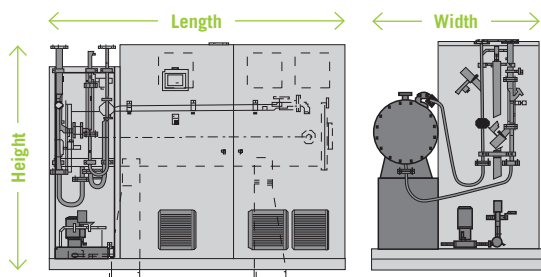
### ► Options\*

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

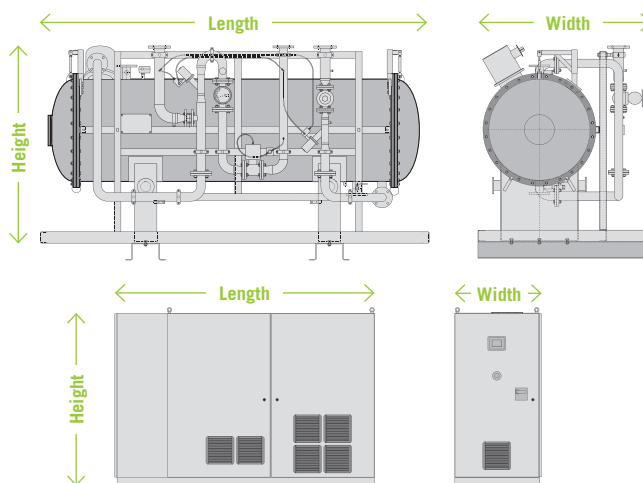
\*Options for CFV-30 on request

## DIMENSIONS

OZAT® CFV Model	l x h x w mm	Weight kg
CFV-02	2000 x 2000 x 1150	~750
CFV-03	2000 x 2000 x 1150	~ 850
CFV-04	2000 x 2000 x 1150	~ 950
CFV-05	2500 x 2000 x 1500	~ 2000
CFV-10	2900 x 2000 x 1900	~ 2050
CFV-15	2900 x 2000 x 1900	~ 2500
CFV-20	2900 x 2000 x 1900	~ 3000



OZAT® CFV Model	l x h x w mm	Weight kg
CFV-30 Vessel	3450 x 1900 x 1550	~ 3500
CFV-30 PSU-Cubicle	3000 x 2990 x 1110	~ 2000



## Contacts

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