



# Ozonia\* M

## Ozone Generator

The Ozone Revolution

# Ozonia M Ozone Generator

## Cost Effective, Compact, Connected

The **Ozonia M** is a high-performance ozone system that includes the latest features and technologies from the Veolia innovation labs.

The **SmartO3 control system** provides advanced features designed to **optimize system performance and enhance reliability**.

The **innovative design** of the **Ozonia M** provides **improved resistance** to environmental conditions and a **compact footprint**.

**Ozonia M** includes the **Intelligent Gap System+ (IGS+)**, a patented ozone generation process that allows for **lower energy consumption** and **increased production capacity up to 20 kg O<sub>3</sub>/h**.



### Ozonia M models utilize SmartO3\* Control System

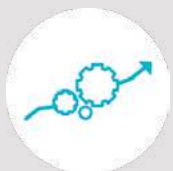
New advanced features make operations and maintenance faster, easier, and less costly

- Real-time data
- Remote access & monitoring



### Higher O<sub>3</sub> Concentration

Up to 16 wt%



### Increased production capacity at lower cost

Up to 20% higher production capacity  
Reduced cost per kg of ozone capacity



### Wider pressure range up to 3.0 bar

Higher ozone gas pressure allows optimization of the surrounding systems and infrastructure



### Reliable performance in harsh environments

Reinforced system protection from ambient conditions up to IP65



### Reduced energy consumption

Up to 25% reduced energy consumption using the IGS+ process



### User-friendly & compact design

25% footprint reduction  
Easy plant integration  
Wide range of options

# Ozone Production Data

Model	Ozone Production (kg/h, lbs/day) <sup>(1)</sup>		Volume Gas Flow (Nm³/h)		Cooling Water Flow (m³/h)
	Oxygen	Air	Oxygen	Air	
M-04	3.4, 180	1.7, 91	1.7 - 31	2 - 40	3.8
M-06	5.4, 287	2.7, 144	2.4 - 49	3.2 - 63	6.7
M-08	7.7, 408	3.9, 206	3.4 - 69	4.5 - 90	9.5
M-10	10.5, 557	5.3, 280	4.9 - 95	6.1 - 123	12.6
M-12	13.7, 726	6.9, 367	6.3 - 123	8 - 160	16.4
M-16	17.1, 906	8.7, 458	7.7 - 154	10 - 200	20.4
M-20	20.5, 1086	10.4, 549	9.1 - 185	12 - 240	24.1

<sup>(1)</sup> The ozone concentration range is up to 16 wt% when fed with oxygen and up to 5 wt% when fed with dry air.

## Model Data

Model	Dimensions (w x d x h)		Weight	
	inch	mm	lb	kg
M-04	114 x 43 x 78	2900 x 1100 x 2000	4299	1950
M-06	114 x 43 x 78	2900 x 1100 x 2000	4409	2000
M-08	114 x 43 x 78	2900 x 1100 x 2000	4519	2050
M-10	114 x 55 x 81	2900 x 1400 x 2080	5622	2550
M-12	114 x 55 x 81	2900 x 1400 x 2080	5952	2700
M-16	114 x 55 x 81	2900 x 1400 x 2080	6283	2850
M-20	114 x 55 x 81	2900 x 1400 x 2080	7055	3200

### ► Connectivity Features

- **Real-Time Optimization**
  - All critical system data and information is available in real time
  - Automatic optimization for ozone production
  - Automatic compensation for variations in system parameters (power, gas pressure, flow rate, ozone concentration)
- **Flexibility**
  - Access to ozone system data using the local network
  - Additional remote device connections
  - Simple integration to SCADA for all major automation platforms
- **Continuous Monitoring**
  - Optimized continuity of service, availability and data quality
  - Optional network-based control capability
  - Entire ozone system monitored to reduce risk for human error

### ► Technical Features

- **Ambient Temperature:** +5 to 55°C
- **Design Altitude:** < 1,000m.a.s.l.
- **Humidity:** RH up to 96% (yearly average)
- **Voltage:** 3 x 360 to 495 VAC
- **Frequency:** 50 / 60 Hz
- **Rating:** up to IP65
- **O<sub>3</sub> Production Turndown** 200:1

### ► Technical Options

- PROFINET / MODBUS TCP / OPC UA
- Concentration analyzer
- Regulating valves
- All remote, process and alarm signals provided over bus communication
- WiFi ready
- Remote troubleshooting, software / firmware updates, and performance audits

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