

Ozonia* L

The Ozone Revolution Continues

Cost Effective. Compact. Connected

WATER TECHNOLOGIES

Ozonia L

Veolia's **Ozonia L** ozone generators simplify ozone production and maximize efficiency by incorporating the most advanced technology developed in the Ozonia innovation labs.

The **Ozonia SmartO3*** digital platform includes a suite of advanced features designed to **optimize system performance, enhance reliability, and ensure the highest availability.**

Ozonia IGS+ patented ozone generation technology allows **lower energy consumption and increased production capacity up to 60 kg/h,** all in a compact footprint.



Increased production capacity at lower cost

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



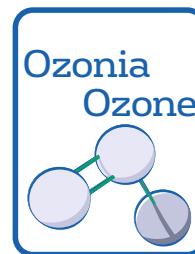
Flexible Production and Design

Production turndown 200:1
Fully engineered options for project-specific requirements



Industry Leading Energy Efficiency

Up to 25% reduced energy consumption using IGS+ technology



Flexible ozone production minimizes operations costs

- Up to 16 wt% concentration
- High tolerance to feedgas total hydrocarbons (THC)



Ozonia SmartO3 Digital Platform

- Real-time optimized performance
- Streamlines service & maintenance support
- InSight* enabled remote access & monitoring
- Increased reliability & availability



Compact and Flexible Design

- Footprint reduction by 25%
- Easy plant integration
- Wide range of options

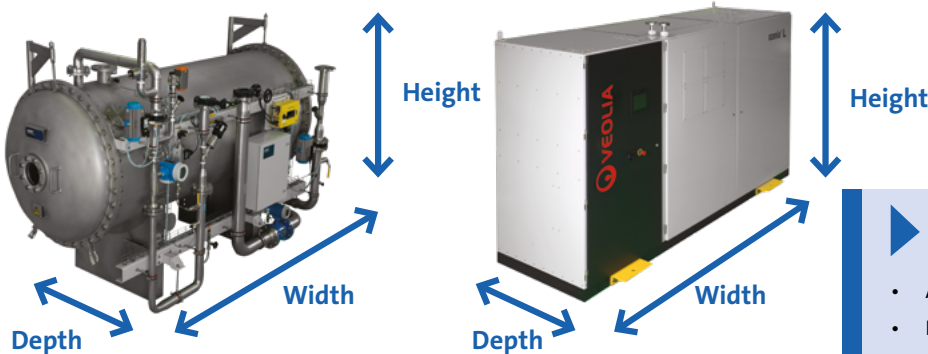
Ozone Production Data

Model	Ozone production (kg/h) ⁽¹⁾	Volume gas flow (Nm ³ /h)	Max. cooling water flow (m ³ /h)
	Oxygen		
L-30	29.7	26 – 260	32.5
L-45	44.5	39 – 390	48.8
L-60	59.4	52 - 520	65

⁽¹⁾ The ozone concentration range is up to 16 wt% when fed with oxygen and up to 5 wt% when fed with dry air. Air design details upon request.

Model Data

Model		Dimensions			Weight without water
		Width (mm)	Depth (mm)	Height (mm)	kg
L-30	OGV	3340	1380	2100	2550
	PSU	3400	1000	2120	1732
L-45	OGV	3420	1550	2220	3150
	PSU	3400	1000	2120	1850
L-60	OGV	3500	1760	2270	3950
	PSU	3400	1000	2120	2395



Ambient Conditions

- Ambient temperature: +5 to 55°C
- Humidity: Relative humidity up to 96%
- Voltage: 380 / 400 / 440 / 480 / 660 / 690
- Frequency: 50 / 60 Hz
- Rating: IP54

Digital Features

Authorized Remote Access

- Full remote access using Ethernet or WiFi improves visibility into operations
- Ozonia SmartO3 connection provides ozone generator control from SCADA or any authorized web-connected device

User Friendly

- Large colour touchscreen HMI
- Direct software update via USB (or available remotely)

Real-Time Optimization

- All critical system data is available in real time using the Ozonia SmartO3 digital platform

- Data logging and trending improves process understanding, process optimization, and process control
- Enhanced reliability

- Digital twin technology enables operation for non-critical instrument failure

Security

- Customizable permissions and roles provides secure access from any connected device
- Password protected
- Encrypted
- InSight enabled remote monitoring & diagnostics
- InSight enterprise cloud-based systems offer greater cyber security and minimize capital investments in information technology hardware
- Industry-leading cyber security tools

Available Technical Features

- Communication: Profinet / Modbus TCP / OPC UA
- All remote, process, and alarm signals provided over bus communication
- Ozone concentration analyzer
- Automatic nitrogen addition
- Automated gas and cooling water valves
- Instrumentation transmitters
- Remote troubleshooting, software / firmware updates, and performance audits

Resourcing the world

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