

# System Solution OZONFILT® Compact OMVb

The perfect system solution for the beverage industry



## Ozone capacity 20 – 70 g/h

The ozone system OZONFILT® Compact OMVb has a modular design mounted on a stainless steel frame.

A sufficient quantity and constant concentration of ozonised water is produced in the system's contact and outgassing tank. From there, it is fed back to where it is needed. The required ozone concentration has variable settings and is continuously controlled and held constant by a measuring and

control circuit. Depending on the application, the ozonised water is pumped by system pressure or with one or more discharge pumps to where it is needed.

With the removal and replenishment of water in the storage tank, undissolved ozone is safely routed outside via a residual ozone gas destructor. No ozone will escape into the ambient air in normal operation.

## Your benefits

- Excellent process reliability through the use of a pre-assembled, complete ozone treatment stage with perfectly coordinated components.
- Fully piped and wired system on a stainless steel frame for plug-and-play connection.
- Modular construction, yet nevertheless can be customised.
- Compression-proof ozone generator built in compliance with DIN 19627.
- Destruction of residual ozone gas for the removal of traces of ozone gas.
- Room air monitoring for traces of ozone gas via a gas detector with a sensor with long-term stability.

## Field of application

- Food and beverage industry: Disinfection of table and rinser water

# System Solution OZONFILT® Compact OMVb

The perfect system solution for the beverage industry

## Technical Data

### Ozone generation, constructed in accordance with DIN 19627

The ozone is generated by an OZONFILT® OZVb in a pressure-tight ozone generator.

### Central control unit

A central control unit manages the entire process and ensures measured value-dependent ozone metering. A touch panel visualises the entire process, simplifying operation. A high-quality control for industrial applications permits varied signal exchange with higher-level management systems.

### Ozone mixing unit

This module comprises an ozone metering point and a downstream mixing section made of stainless steel, with a series of static mixing elements for intensive mixing of the ozone/air mix with the water to be treated. The lines carrying the ozone and the pipework from the raw water connection to the inlet to the contact tank are made throughout in stainless steel and have been factory-pressure tested.

An injector for drawing out the ozone by suction is not needed with back pressures of up to 4 bar because the ozone is generated at positive pressure.

### Contact and outgassing tank

The stainless steel tank incorporates all the necessary fittings for water distribution and ensures adequate contact time and efficient outgassing.

### Discharge system

As soon as the ozone concentration setpoint has been reached, the ozonised water is pumped on-demand to where it is needed. This is done by the feed pump or a discharge system with one or more discharge pumps.

### Residual ozone gas destruction

A residual ozone gas destruction unit with integral water separately is used for the safe removal of undissolved ozone gas in the exhaust air from the contact tank.

### Gas detector

The room air is monitored for ozone leaks using a gas detector with electrochemical sensor. If the alarm threshold is exceeded, ozone generation is stopped and an alarm signalled. A buzzer is activated at the same time.

Type TWA for filler		OMVb TWA 20 – 1000	OMVb TWA 35 – 1000	OMVb TWA 70 – 2000
Type: ozone generation system		OZVb 2	OZVb 3	OZVb 4
Volume of contact storage tank	l	1,000	1,000	2,000
Ozone output at 20 g/Nm <sup>3</sup>	g/h	20	35	70
Nominal flow rate	m <sup>3</sup> /h	5 – 15	15 – 30	45 – 60
Enclosure rating		IP 54	IP 54	IP 54

Type RI for rinser applications	OMVb RI 20 – 500
Type: ozone generation system	OZVb 2
Volume of contact storage tank	500 l
Ozone output at 20 g/Nm <sup>3</sup>	20 g/h
Nominal flow rate	5 – 15 m <sup>3</sup> /h
Enclosure rating	IP 54