



# OZONE SYSTEM

## OZONFILT OZVB

OZONFILT OZVb is powerful and compact and is ideal for efficient ozone generation from compressed air in the output range of up to 70 g/h. The turnkey ozone system including mixing equipment offers everything you need for safe and seamless operation.

### BENEFIT

- ✔ Safe and seamless operation through continuous monitoring of all relevant operating data.
- ✔ Simple, safe and reliable operation with process visualisation thanks to colour and clear 4.3" touch panel.
- ✔ Compact system with integral air treatment.
- ✔ Turnkey complete system with perfectly coordinated mixing device including back pressure valve, vacuum breaker and static mixer.
- ✔ Direct injection without injector system for up to 4 bar back pressure.

### TECHNICAL DETAILS

- ✔ 4 different sizes depending on the capacity range.
- ✔ Compact mounting in a painted steel cabinet.  
Special dielectric with outstanding cooling performance: in spite of the low cooling water consumption,
  - ✔ heat is quickly and efficiently discharged before the ozone produced can decompose due to excessive heat.
- ✔ Integrated air treatment based on a pressure swing dryer with adjustable throttle valve and analogue flow measurement and pressure monitoring.
- ✔ Continuous analogue pressure measurement in the ozone generator with automatic capacity adjustment to compensate for pressure fluctuations.



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- ✔ Gas-tight diaphragm valve at the ozone outlet.
- ✔ PLC control with operating data recorded on an SD card.
- ✔ Simple, safe and reliable operation with process visualisation thanks to colour and clear 4.3" touch panel.
- ✔ Contact inputs for external On/Off switching, gas detector connector, external fault alert, flow control.
- ✔ Analogue input 4-20 mA for power control depending on the measured value combined with external measuring and control technology.
- ✔ Cooling water system with automatic shut-off valve, adjustment valve and monitoring device via flow and temperature sensor.

### TECHNICAL DATA

		OZVb 1	OZVb 2	OZVb 3	OZVb 4
Number of modules		1	1	1	2
Ozone capacity, measured in accordance with DIN with air at 20 °C, cooling water at 15 °C	g/h	10	20	35	70
Ozone output max. 2.5 bar	g/h	8.0	16.0	28.0	56.0
Ozone output max. 3.0 bar	g/h	6.2	12.4	21.7	43.4
Ozone output max. 3.5 bar	g/h	4.4	8.8	15.4	30.8
Air consumption (only ozone generation)	Nm <sup>3</sup> /h	0.50	1.00	1.75	3.50
Ozone concentration in the gas phase referenced to nominal conditions*	g/Nm <sup>3</sup>	20	20	20	20
Specific energy requirement at nominal capacity	Wh/g	16.5	16.5	16.5	16.5
<b>ELECTRICAL CONNECTION</b>					
Mains connected load	V/Hz/A	230/50;60/2	230/50;60/6	230/50;60/6	230/50;60/6
Enclosure rating		IP54	IP54	IP54	IP54
Degree of protection with integrated air conditioning unit (internal/external)		IP 54 / IP 34	IP 54 / IP 34	IP 54 / IP 34	IP 54 / IP 34
Weight	kg	80	80	95	140

