

# Ozone for disinfection and oxidation – with ProMinent

Environmentally-friendly ozone production and dosing

ProMinent®

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## Ozone production and dosing

### Ozone systems OZONFILT® OZVa

The systems for low to medium ozone consumption from 5 to 90 g/h win over through the very latest technology. As a result, ozone production is unaffected by hydraulic and electrical limiting conditions. Controlled by medium frequency voltage pulses, the ozone generators are optimised for high efficiency.



### Ozone systems Bono Zon® BONa

The systems for medium to high ozone consumption from 80 to 720 g/h offer a high level of reliability thanks to vacuum operation with low energy consumption. All important operating parameters are monitored electronically. DULCOTEST® ozone sensors can be directly connected with the automatic controller.



# Systems for every capacity class

Capacity overview of ozone systems			
	OZVa 1-4	OZVa 5-7	BONa
Capacity [g ozone/h]	1,000		
	500		
	200		
	100		
	50		
	20		
	10		
	2		
Operating gas	air	oxygen	air
Ozone concentration (at STP)	20 g/m <sup>3</sup>	100 g/m <sup>3</sup>	20 g/m <sup>3</sup>

Ozone is the strongest disinfectant and oxidant permitted for water treatment. With an environmentally-friendly production process using air or oxygen, it decomposes to oxygen after use. The concentration can be measured online at any time. The optimal solution for swimming pool water, potable water, for the beverages industry and other industrial applications. ProMinent offers systems together with accessories in almost all sizes.



**Ozone systems OZONFILT® Compact OMVa**  
Complete ozone treatment stage for small applications from 5 to 30 g/h. “Turnkey” ozone treatment with compact external dimensions and optimised components.



**Customised systems and accessories**  
Water treatment systems combining ozone treatment with other processes such as filtration, reverse osmosis, UV radiation, or dosing of additives are tailored to customer requirements. All components are perfectly matched to one another.



Further information:  
[www.prominent.com/ozone](http://www.prominent.com/ozone)

# Simple installation



Ozone production with maximum operating reliability and low costs.

- Simple installation
- Ozone production is independent of pressure and voltage, thanks to PCC (primary current control)
- Direct injection without separate injector system
- Maximum efficiency with low cooling water consumption
- Infinitely variable capacity control 3-100 %
- Different versions for capacity ranges from 5 to 90 g/h at ozone concentrations up to 150 g/m<sup>3</sup> (at STP)
- Compact construction in painted standard enclosure or stainless steel enclosure
- Available with and without integrated mixing device
- Low maintenance and running costs

OZONFILT® OZVa							
Type	OZVa 1	OZVa 2	OZVa 3	OZVa 4	OZVa 5	OZVa 6	OZVa 7
Ozone capacity [g/h]	5	15	35	40	30	60	90
Ozone concentration [g/m <sup>3</sup> ] (at STP)	20	20	20	20	100	100	100
Specific energy consumption for ozone production [Wh/g]	17.5	17.5	17.5	17.5	10	10	10
Operating gas	compressed air				oxygen	oxygen	oxygen
Air or O <sub>2</sub> consumption [m <sup>3</sup> /h]	0.4	1	2.25	2.5	0.3	0.6	0.9
Cooling water consumption [l/h]	10	20	50	70	40	70	110
Dimensions [mm] (W)	840	840	710	710	865	705	705
(H)	840	805	1400	1400	804	1400	1400
(D)	310	310	310	310	310	345	345
Weight [kg]	70	75	121	121	75	109	114
Electrical supply [V/Hz/A]	230/50-60/2	230/50-60/3	230/50-60/6	230/50-60/6	230/50-60/3	230/50-60/6	230/50-60/10



# Efficiency and reliability



Vacuum systems with low running costs and wide application area.

- Low running costs due to low cooling water consumption and extremely efficient air drying
- High operating reliability thanks to vacuum operation
- Manual or automatic control

- No separate controller needed for automatic control
- Various capacity ranges from 80 to 720 g/h
- Designed and built as a complete vacuum system
- Energy-optimised thermal regeneration of the air drying

Bono Zon®										
Type BONA	1 D	2 E	2 D	3 D	4 D	5 D	6 D	7 D	8 D	9 D
Ozone capacity [g/h]	80	120	160	240	320	400	480	560	640	720
Ozone concentration [g/m <sup>3</sup> ] (at STP)	20	20	20	20	20	20	20	20	20	20
Specific energy consumption for ozone production [Wh/g]	18	18	18	18	18	18	18	18	18	18
Operating gas	ambient air									
Air consumption [m <sup>3</sup> /h]	4	6	8	12	16	20	24	28	32	36
Cooling water consumption [l/h]	100	180	200	300	400	500	600	700	800	900
Dimensions [mm] (W)	800	1600	1600	2000	2400	2400	2800	3200	3400	3400
(H)	1950	1950	1950	1950	2200	2200	2200	2200	2200	2200
(D)	500	500	500	500	600	600	600	600	600	600
Weight [kg]	360	700	720	820	1200	1280	1360	1920	1980	2000
Electrical supply [kVA]	5.5	7	10	14.5	20	22.5	27.5	34	36	38



Further information:  
[www.prominent.com/ozone](http://www.prominent.com/ozone)

Ozone system OZONFILT® Compact OMVa

# Maximum process reliability



High process reliability through pre-assembled, complete ozone treatment stage with all components optimally matched to one another.

- Integrated ozone production system OZVa
- High operating reliability thanks to PCC (primary current control) technology

- Ozone mixing with static mixer
- Stainless steel reaction tank
- Residual ozone gas destruction and ozone gas warning unit
- Standard version can be adapted and extended to meet project-specific requirements

OZONFILT® Compact OMVa			
Type	OMVa 1	OMVa 2	OMVa 3
Ozone system type	OZVa 1	OZVa 2	OZVa 3
Ozone capacity [g/h]	5	15	35
Reaction tank volume [ l ]	205	460	1080
Flow capacity min ... max [m³/h]	5 - 10	10 - 15	25 - 35
Operating pressure [bar]	0.6 - 1.8	0.6 - 1.8	0.6 - 1.8
Reaction tank connection	DN 40	DN 50	DN 80
Dimensions [mm] (WxHxD)	850x2000x760	850x2200x760	1100x2600x1160
Weight [kg]	200	250	350
Electrical supply [V/Hz/A]	230/50-60/2	230/50-60/3	230/50-60/6



Further information:  
[www.prominent.com/ozone](http://www.prominent.com/ozone)

# Global service locally



We already offer our service to you even if you are not yet our customer. Our pre-sales services ensure that you get the optimum solution for your individual needs:

- **Advice in choosing the products**
- **Application and process optimisation**
- **Project planning**

However, our commitment does not end with delivery. We offer you a comprehensive after-sales service, which lasts for the entire service life of your equipment.

That maximises your productivity and minimises your operating costs:

- **Assembly/installation**
- **Commissioning**
- **Maintenance**
- **Spare parts service**
- **Repair**
- **Troubleshooting**

Thanks to our worldwide presence in over 100 countries, our service is available wherever you need it.



Further information:  
[www.prominent.com/service](http://www.prominent.com/service)

## World-wide contact



ProMinent is at home in more than 100 countries of the world. This guarantees world-wide availability of the products and short distances to the customer. We offer you the same high quality standard in products and services worldwide. For you at your location: experience and know-how in water treatment and chemical fluid handling are available world-wide.

For detailed information, please visit our website [www.prominent.com](http://www.prominent.com)

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**Experts in Chem-Feed and Water Treatment**

