



OZO-PEN Portable Ozone Generator



User Manual

A patent pending technology by
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OZO-PEN Standard Model



Standard Features:

- 1) Precious metal anode
(need never to be replaced)
- 2) 15-30 VDC power supply

Optional Features:

- 1) Battery operation
- 2) Solar panel operation
- 3) Timer for on/off use

Specifications:

Ozone output:

1 ppm in 1L tap water after 1 minute under following conditions:

TDS \geq 700 ppm

Power supply 30 VDC, 1A

Dimensions:

21.5 cm long x 1.5 cm \varnothing

(8.5 in long x 0.6 in \varnothing)

Weight:

200 g (0.45 lbs)

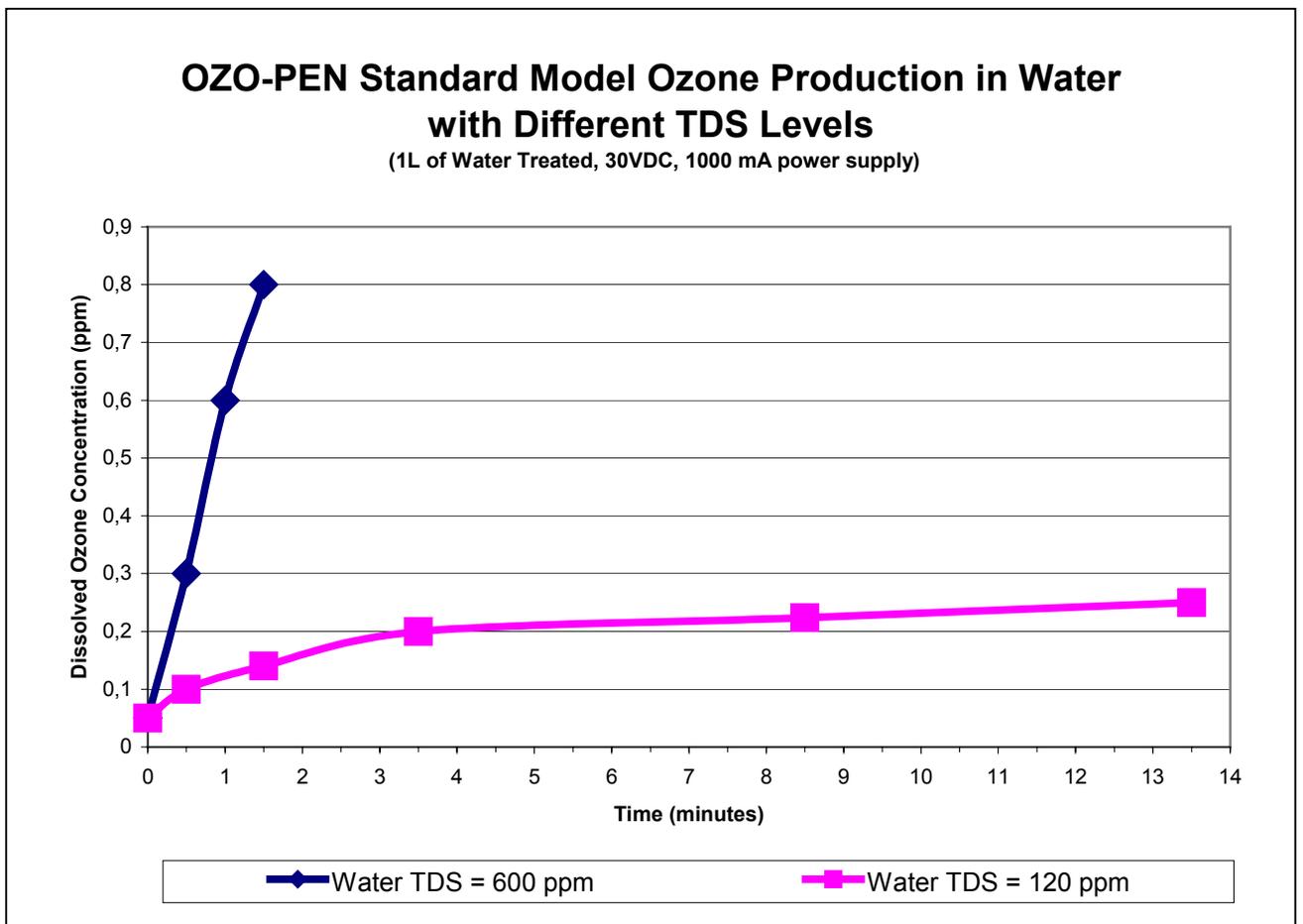
Power:

15-30VDC, 1A

Typical Data

The concentration of ozone and mixed oxidants produced by the OZOPEN is a function of the conductivity of the water to be treated as dictated by its TDS (Total Dissolved Solids) level.

The figure below shows that as the TDS level of the water to be treated increases so does the ozone concentration produced. Higher dissolved ozone levels may be achieved in high TDS water in a shorter time than in low TDS water.



Method of Use

The operate the OZO-PEN the follow the steps below:

- 1) If water to be treated contains suspended solids, remove solids either by filtration or decantation.
- 2) If water to be treated contains chlorine it is preferable to remove the chlorine by filtering the water with an activated carbon filter before ozonating with the OZO-PEN. See picture of activated carbon filter below.
- 3) Place filtered and/or decanted water in a container (preferably made of glass)
- 4) If water to be treated is low in TDS (Total Dissolved Solids) and a high concentration of dissolved ozone is desired (greater than 0.2 ppm) add 0.5 – 1.0 gram per litre of table salt to the water. Stir until salt dissolves.
- 5) Plug OZO-PEN power supply into an electric outlet
- 6) Plunge the ozone generating section (section with holes) of the OZO-PEN into the water. Hold OZO-PEN from its handle. Do not immerse OZO-PEN entirely in the water.
- 7) Stir the OZO-PEN in the water for at least 30 seconds to 1 minute per litre of water to be treated. Ozone and mixed oxidant bubbles should form at the surface of the OZO-PEN.
- 8) To remove precipitates that may have formed during the treatment (or excess ozone if desired) filter the water through an activated carbon filter as shown in picture below.
- 9) Store ozonated water in a closed container (preferably made of glass) for later use.



OZO-PEN with pitcher type carbon filter

Maintenance

After a period of use, a layer of hardness may accumulate on the surface of the OZO-PEN.

When this occurs clean the OZO-PEN as follows:

- 1) Dip a cloth in regular table vinegar
- 2) Using the cloth rub off the hardness layer
- 3) Rinse with water