



Mazzei[®]

MAZZEI OZONE CONTACTING

A better spa
experience with
no harmful ozone
off-gas.



SUCCESSFUL OZONE CONTACTING

Ozone Mass Transfer Factors Include...

Ozone Concentration

Concentration and solubility are directly proportional. Therefore, higher ozone concentrations promote the transfer of more ozone into solution.

Gas to Liquid Ratio

A lower gas to liquid ratio (V_g/V_l) allows for greater ozone mass transfer efficiency.

Water Pressure

Higher pressure yields increased ozone solubility.

Water Temperature

Higher temperature reduces solubility, but increases the chemical reaction rate.

Mixing

Intense, forceful mixing allows for the rapid renewal of the gas-liquid interface, increasing the mass transfer rate and the reaction rate.

Successful Ozone Contacting is Achieved by...

1. Raising the ozone concentration while lowering the gas to liquid ratio
2. Operating under the highest water pressure available
3. Including the most aggressive mixing components
4. Using an integrated system, with intelligent design

The Result...

- ▶ Ozone is transferred into the water, where it belongs.
- ▶ NO harmful ozone off-gas
- ▶ Long life for spa covers and pillows
- ▶ An enjoyable spa experience
- ▶ Customer satisfaction

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COMPONENTS OF THE MAZZEI® SYSTEM

The Mazzei® Injector

Ozone gas is introduced into the water stream under conditions of high-turbulence.



The Flash Reactor™ or LGM

The gas-liquid interface is rapidly renewed through aggressive mixing.



The MTM™ Nozzle

Gas bubbles are re-sheared and the gas-liquid interface is renewed once again. The desired system pressure is created to ensure maximum dissolution of ozone into the water.

