

## OZONE DOSAGE IN WATER CALCULATIONS

### Calculate Ozone Dosage Requirements in Water

Flowrate (lph) x Ozone dosage (ppm) = Ozone production (mg/hour)/1000 =  
g/hr Ozone

Example:

10000 (lph) x 2ppm = 20000 mg/h = 20 g/hr

### Calculating Ozone Output

Flowrate (lpm) x Ozone concentration (g/m<sup>3</sup>) = Ozone production (mg/h)

Example:

Ozone concentration exiting Ozone unit: 120g/m<sup>3</sup> at 5 lpm of Oxygen flow  
 $5 \text{ l/min} \times 120 \text{ g/m}^3 \times (1 \text{ m}^3/1,000 \text{ l}) = 0.60 \text{ g/m} \times 60 = 36 \text{ gph}$

### Iron & Manganese Oxidation

Iron Oxidation – 0.43mg Ozone to 1mg Iron

Manganese Oxidation – 0.88mg Ozone to 1mg Manganese