

Ozonators MEMBREL® Electrolytic Ozone For High Purity Water 11 – 216 grams/day

MEMBREL® MkII Electrolytic Ozone Systems are a quantum leap over traditional methods in ozone generation for high purity deionized water. Typically, ozone is produced by passing oxygen or air across a dielectric barrier discharge, converting the oxygen in the gas to ozone. This method has always had certain disadvantages which include excess gas, the introduction of soluble carbon dioxide contamination into pure water, or the need for bottled oxygen.

A more elegant way of producing ozone is by the dissociation of pure water in an electrolytic cell using a solid polymer membrane as the electrolyte. By controlling the dissociation voltage in the electrolytic cell, the reactive intermediate stages of oxygen are formed at the anode resulting in the formation of ozone.

FEATURES

The features of the **Membrel Electrolytic Ozone Generator** are almost as much a function of what isn't needed, as to what is provided.



Membrel MkII/ 3 cell

Membrel Features

- High concentration ozone (95% by weight)
- Compact – wall mountable design allows easy installation
- All Stainless steel construction.
- Universal input power compatibility. A Membrel Ozone generator will work anywhere in the world with single-phase power.
- Advanced control system.
- Extremely flexible control system that includes interfaces for front panel operation, from an easy-to-use local mode to a remote mode controlled by an industry standard 4 – 20 mA current loop.
- Complete instruction Manual
- Fast, responsive factory and dealer support on any problem or question.

Membrel NON-Features

- No oxygen concentrator or oxygen bottles are required
- No pressure regulators for air or oxygen out of the oxygen concentrator are required
- No gas supply filtration, no particle filter, no oil coalescing filter, and no possibility of hydrocarbon adsorption
- No pressure regulator for cooling water is required
- No cooling water low flow switch and automatic inlet on/off valve



Electrolytic O₃ Cell

**For More Information Please Call
1(800)CAL-WATER - (800) 225-9283**

SPECIFICATIONS

Dimensions (All Models)

	L	W	H
In	24	16	30
mm	600	400	750

Materials of Construction

Enclosure:	stainless steel
Contact with O ₃ :	316 stainless steel, titanium, PTFE, PVDF, Viton

Electrical - 50/60 Hz - 230 V single phase*

MkII/ 1	2.6	Amps
MkII/ 2	5.2	Amps
MkII/ 3	7.8	Amps

Minimum Feedwater Quality

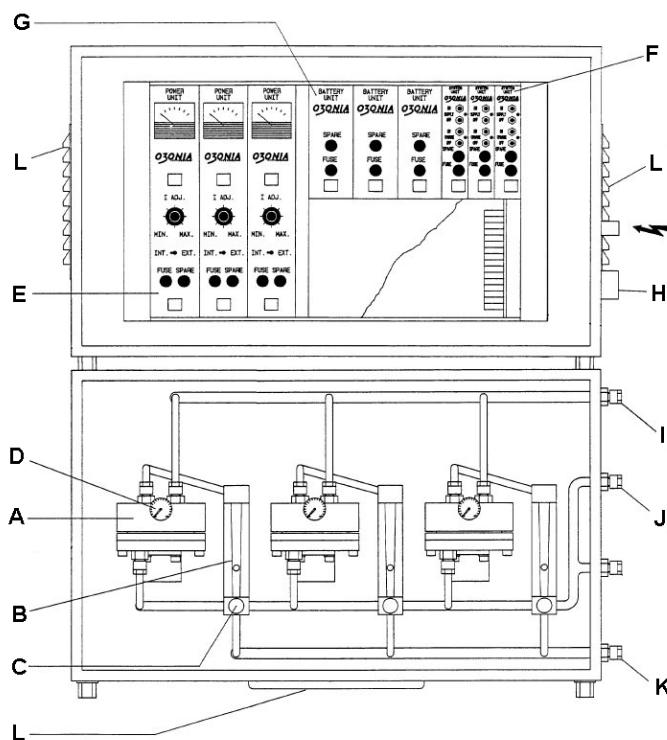
20 mS/cm	10 ppm
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Maximum Pressure

90 psi	6 Bar
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Control / Signals

MEMBREL system "On/Off"	Local / remote
Power supply unit "On/Off"	Local / remote
Current regulation each cell	Local / remote
Flow regulation each cell	Local
Alarm (collective)	Local / remote



Membrel MkII/3 cell

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|------------------------|----------------------------------|
| A. Electrolytic Cell | G. Backup Battery |
| B. Flow Meter | H. Control/Power Wiring |
| C. Feed Water Valve | I. Ozonated Water Outlet |
| D. Thermometer | J. Exhaust H ₂ Outlet |
| E. Power Control Unit | K. Feed Water Inlet |
| F. Remote Control Unit | L. Ventilation Louvers |

SIZING

MEMBREL® Model	O ₃ Rating-grams/day		DI Feed Water		Watts	Weight	
	Minimum	Maximum	Litre/h	GPH		Kg	Lb
MkII/ 1	11	72	120	32	600	45	99
MkII/ 2	22	144	240	63	1,200	60	132
MkII/ 3	32	216	360	95	1,800	75	165

Limited Warranty: Membrel units are guaranteed for 1 year from the date of installation. In case of defect in equipment, labor, material or service, Cal-Water's sole responsibility is for the replacement or repair of the defect and cannot be held liable for losses of any kind. Please see Terms and Conditions of sale.

Cal-Water has been selling, installing and servicing water purification equipment since **1946**.

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