



Climate
Control
Systems

a nebula group company

OZONE PRO

WATER TREATMENT SYSTEM

**Recycle and Disinfect
your Nutrient Solution.**



THE OZONE LITE

The OzoneLite system provides fast, effective sterilization of large surface areas and equipment with an environmentally safe process without chemical disinfectants.

Features:

- LCD Display
- 8-Program Controller
- ORP Meter
- Nano Bubble Pump
- 0-100% Ozone Control
- Safety Shutoff

With ozone generation capabilities up to 200 gr/hr, the OzoneLite offers a compact solution suitable for any sized growing operation.



VALUE PROPOSITION

Biofilm is a slimy scale that grows in irrigation equipment for almost all growing operations. This film can clog emitters and cause crop failure or variations in the crop because of partial clogging.

- The Ozone Pro and OzoneLite destroys biofilm and allows for the recycling of water
- The Ozone Pro and OzoneLite also add needed oxygen to the roots of the crops
- Recycling leachate reduces fertilization costs

OZONE PRO SOFTWARE PROGRAM

RUN TIME SCHEDULE SCREEN

14: 51:43
2 / 10 / 2023

System mode : Closed Loop No. of tanks to be selected : 2

Program	Start Time (24 HR)	End Time (24 HR)	Active?	Tank Select			
				1	2	3	4
1.	0.00	0.00	OFF	●	●	●	●
2.	0.00	0.00	OFF	●	●	●	●
3.	0.00	0.00	OFF	●	●	●	●
4.	0.00	0.00	OFF	●	●	●	●
5.	0.00	0.00	OFF	●	●	●	●

System may also be enabled using an external trigger.

The Run Time Schedule screen allows the grower to set the time period to run the Ozone Pro system over the 24-hour day.

METERS SCREEN

METER CONFIGURATION

Name	Status	Configure
ORP Input - Meter 1	ON	Configure
Sterilized Tank - Meter 2	OFF	Configure
Collected Tank - Meter 3	OFF	Configure
ORP Output - Meter 4	ON	Configure
Tank 1 - Meter 5	ON	Configure
Tank 2 - Meter 6	ON	Configure
Tank 3 - Meter 7	OFF	Configure
Tank 4 - Meter 8	OFF	Configure
Pressure Sensor Input - Meter 9	ON	Configure
Pressure Sensor Output - Meter 10	ON	Configure
Water flow meter - Meter 11	ON	Configure



The Meters screen displays ORP (Oxidation Reduction Potential), conductivity, pH, temperature and water levels in the related tanks. All readings are displayed on each LCD display and on the computer screen. Meters can be programmed to show up on the main screen as required. Each meter can be labeled by a specific tank name for easy identification.

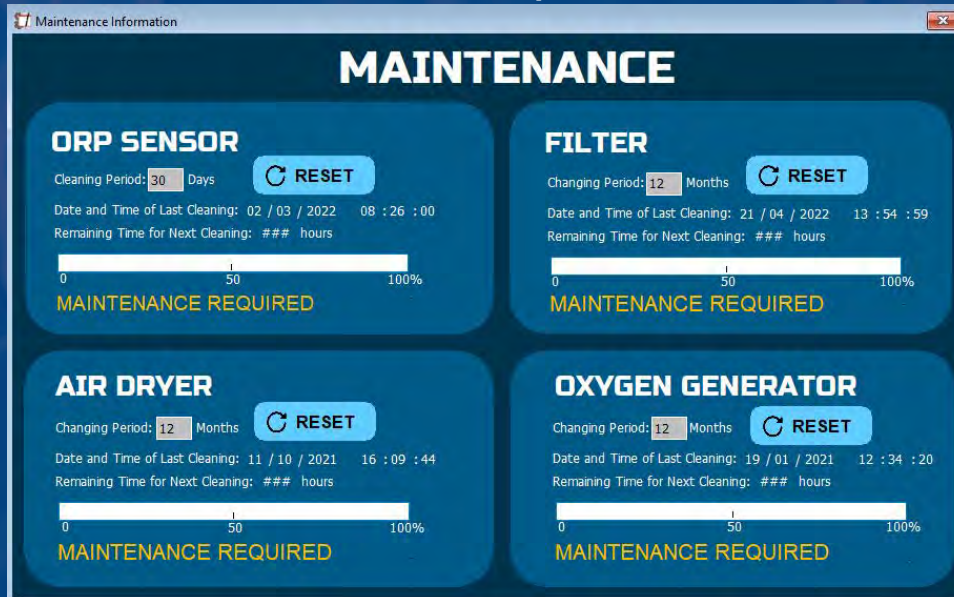
OZONE PRO SCREEN



The Ozone Pro screen gives an overall view of the system status and schedule. The green indicator lights on the right side of the screen indicate that all functions are normal. If the indicator lights turn red, it indicates a fault function within the system.

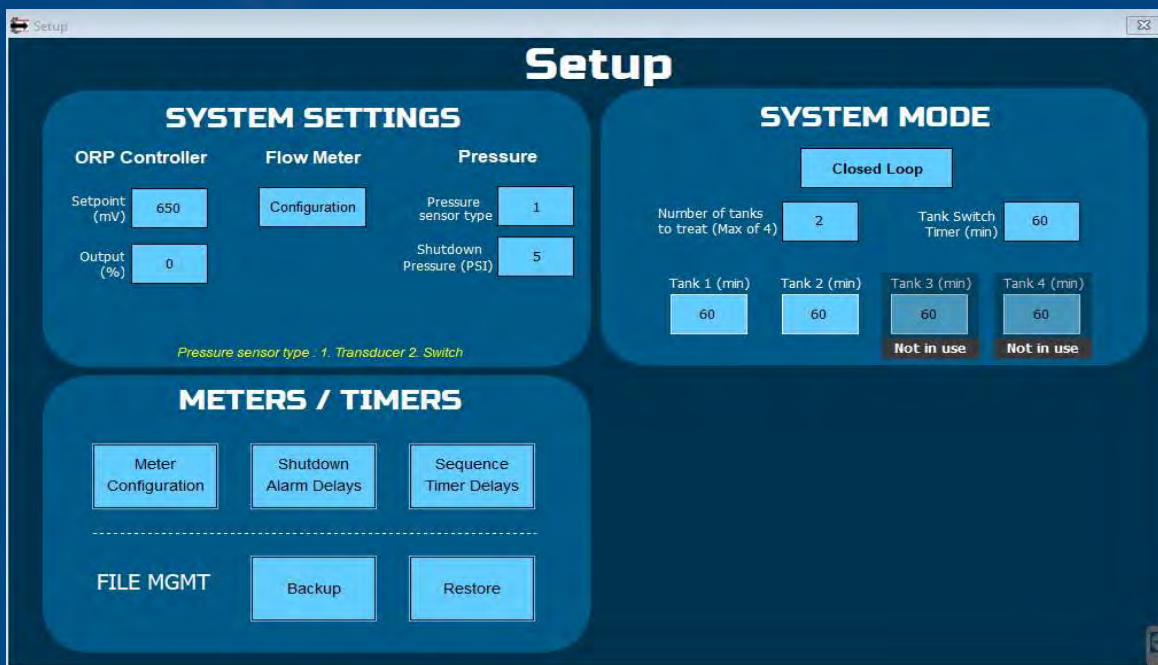
MAINTENANCE SCREEN

The Maintenance screen displays the function of the ORP (Oxidation Reduction Potential) Sensor, Filter, Air Dryer and Molecular Sieve Cylinders.



SET UP SCREEN

The Set-Up screen allows the grower to program the meters required for the system. (1) System Settings are for the setpoints for the ORP meter/controller and the Water Flow Meter Settings. (2) Meter Configuration programs specific meters in or out of the program. (3) Timer Delays preset the Oxygen, Ozone and Pump delays. (4) Alarm Delays preset alarm delays for the ORP Meter, Water Flow, Oxygen, Pressure, Ozone Level, Generator Fault and Ozone Leak Detection.



TECHNICAL

The CCS-SWxx Plasma Ozone technology is ideal for sterilizing irrigation wastewater for all crops, indoor and out. The ozone water treatment systems are available for water flow rates from 10 U.S. GPM to 1000 U.S. GPM. Each system is custom-designed to suit any specific flow rate.

The process of dissolving ozone with patented Nano-Bubble technology into the water kills any bacteria, viruses and pathogens resulting in clean sterilized water for blending with fresh water before it is treated by the fertilizer treatment system as it is sent to the plants.

The residual ozone in the water not only sterilizes but also provides enriched dissolved oxygen in the irrigation water which is very beneficial for plant growth.

The process of dissolved ozone in the water kills any bacteria, viruses, and pathogens resulting in clean, sterilized leachate.

BENEFITS

The Ozone Pro water treatment technology for leachate complies with environmental regulations and will give the grower the following benefits:

- Reduced fertilizer costs of 40% and water savings of 30%
- An increase in crop yields by as much as 10%
- Lower power consumption and operating costs
- No chemical residue left in the water
- Higher residual oxygen in the water for stronger, healthier roots
- Removal of bacteria, viruses and algae from the recycled nutrient water

AVAILABLE SYSTEMS



MEDIA FILTRATION SYSTEM

Micro Zeolite Filtration system is available for various flow rates for the filtration of irrigation water.

Micro Z filters remove any loose particulates down to 5 microns. They are also an excellent way of removing various types of unwanted elements in the collected water before it is sent to the ozone treatment system.



BUILT-IN OXYGEN GENERATION

This built-in oxygen generator provides pure oxygen to produce maximum ozone levels for bacteria destruction.

As some of the oxygen ends up at the root zone it enhances root development in turn producing a healthier plant.



OZONE BACTERIA DISINFECTION

Ozone bacteria disinfection systems are available for various water flow rates. The system is complete with solid-state reactors with 4 to 20 mA input to connect to the ozone controller.

Once the system is set up, it automatically maintains a set ozone level in the water to constantly destroy bacteria.

WATTS REVERSE OSMOSIS SYSTEM



Climate Control Systems is a North American distributor for Watts Water Systems.

Watts RO Systems are complete commercial reverse osmosis systems. Their standard features include electronic controllers, Big Bubba pre-filter housing, and heavy-duty multi-stage centrifugal pump. Flow meters and pressure gauges are included at various points in system. Options include installed chemical feed pump.

Creating consistent growing environments for healthy crop growth and quality control.



**Climate
Control
Systems**

a
nebula group
company

Climate Control Systems Inc. has been manufacturing greenhouse automation systems around the globe since 1985.

Our greenhouse automation software and solutions work around the clock to optimize greenhouse climate, increase crop yields and reduce water, energy and fertilizer costs.

We provide complete solutions for your growing operations. Our solutions help achieve a better crop while saving you precious time and overhead costs.

nebula group

Nebula Group's primary mission is to profitably expand leadership in food production and safety in a localized manner through the decentralization of the food supply chain via sustainable resources, modernized technology systems, and self-sufficient processes. Learn more at nebulagroup.co.

CONTACT US TODAY FOR A CUSTOM QUOTE

DEALERSHIP AND AGENT INQUIRIES ARE WELCOME

P +1-519-760-8882
E ian@climatecontrol.com
W www.climatecontrol.com



**Climate
Control
Systems**

a nebula group company