



# Pro Series

## **Professional Ozone Laundry System**

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## ***“What is Ozone?”***

Ozone is oxygen (O<sub>2</sub>) with an extra atom of oxygen attached, thus forming O<sub>3</sub>.



Ozone is formed naturally during a lightning storm. The creation of Ozone is nature's way of purifying the atmosphere, and is what gives clothesline dried linen that "Fresh air" smell.

Ozone is an extremely effective sanitizing and disinfecting agent. In fact, Ozone kills bacteria faster than chlorine. Most new water treatment plants are treated with Ozone instead of Chlorine.

*Ever notice that bottled water tastes and smells much better than regular tap water?*

That is because bottled water is often purified with ozone instead of chlorine. The bad taste and smell in your tap water, is nothing more than residual chlorine.

## ***“How does Ozone work in a Laundry?”***

OZONE carries an electrical/chemical charge in the washing solution, which actually starts to dissolve soil on contact. This process activates the chemicals in cold water instead of using hot water of 140-160 degrees.

Sanitizing of your linen is equal to standard laundry procedures. And is CDC/CMS approved for use in any health care facility.



The Experts at ArtiClean have built and installed Ozone Laundry Systems for over 20Years.

***Ozone Laundry gives you several advantages over standard laundry practices.***

### ***Longer Linen Life***

Did you know that when chlorine bleach and extremely hot water are mixed together, a chemical reaction occurs that actually damages the fibers of linen? With Ozone, this chemical reaction is eliminated. Our customers have reported that their linen life has increased by 30% or more.

### ***Shorter Drying Times***

Ozone actually penetrates the fibers of your linen. This is evident in the thicker, fluffier towels that are dried after being ozonated. The ozone helps to release moisture in the dryers or on a flatwork ironer, thus creating much faster drying times as well. In most cases, drying time and gas usage has decreased by 20%.





Amb. Ozone	00   1 ppm	Amb. Temp.	21.1 °C	Amb. Hum.	51.1 % RH
ORP	0 mV	Flow	0.4 L/min	Purity	94.7 %

### Smart Generators That VERIFY SANITATION

PRO Series utilizes PRO Series generators. These ozone generators will verify the Sanitizing ozonated water delivery to your washer. Once the level of sanitation is reached it will indicate with a "Smiley Face". These "Smart" generators detect sanitation, ozone concentration, oxygen flow and purity, and will show the ambient ozone level in the room. The end result is the right amount of ozone going to each washer, thus removing the possibility of off-gassing issues.



### Major Reduction in Natural Gas Cost

Approximately half the Natural Gas consumption used in the laundry is for heating water. The other half is used in drying the linen. ArtiClean can eliminate 90% or more of your hot water usage. Some facilities have turned their hot water heaters off! An average 100 bed nursing home could save a minimum of \$1,200 per month on their utility bills.

### Industrial Oxygen Concentrators

A well designed ozone laundry systems starts with a good supply of Oxygen. The air that we breathe is made up of 21 % Oxygen, 75% Nitrogen, and 4% other inert gasses. The PRO Series system utilizes an industrial grade oxygen concentrator that removes the Nitrogen from the air and produces 95% pure oxygen. This is the basis on what makes our system much more reliable than similar systems on the market. Most other companies use an air dryer, which allows the nitrogen to enter the ozone generator. In the process of creating ozone with only dry air, Nitric Acid is formed which will lead to premature failure of the ozone generator and other system components.

## System Specifications



Model	PRO 1-5	PRO 2-10	PRO 3-15	PRO 4-20
Number of Washers	1	2	3	4
Ozone Generator	PRO-1	PRO-2	PRO-3	PRO-4
Ozone Grams Per	5	10	15	20
Oxygen Concentra-	Airsep Topaz	Airsep Topaz	Airsep Topaz	Airsep Topaz
Venturi Assembly	Hose Connections	Hose Connections	Hose Connections	Hose Connections
Venturi Manufactur-	Mazzei	Mazzei	Mazzei	Mazzei
Venturi Size(s)	384/584/684/1078	384/584/684/1078	584/684/1078/1583	Various Combina-
Water Flow Rate	10-32 GPM/Washer	10-32 GPM/Washer	10-32 GPM/Washer	10-32 GPM/Washer
Standard Voltage	115/60/1	115/60/1	115/60/1	115/60/1
Rated Amperage	15	15	15	15

### System Includes:

- \*Complete Ozone Laundry System - Wall Mounted
- \*Pro Series Multiple Washer - Industrial Ozone Generator
- \*AirSep Topaz - Oxygen Concentrator with Smart Timer Control
- \*Wall Mounted Venturi Injector Assembly, ORP Probes
- \*Smiley Face with Sanitation Verification
- \*LCD Touch Screen with Operational Readout
- \*Schedule 80 PVC Piping
- \*Union Ball Valves