

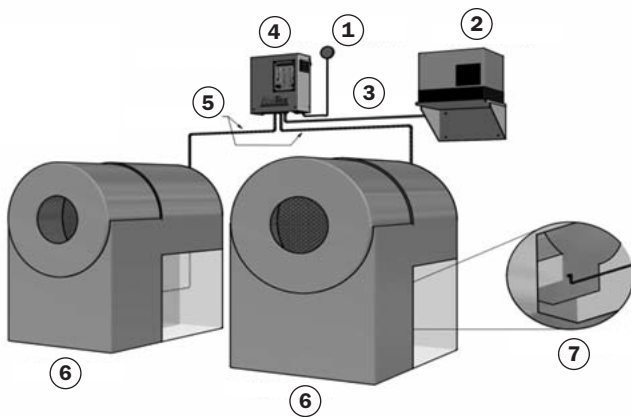
Ozone laundry systems

Improved technology to save energy, water, and chemicals in commercial laundry facilities

If your business or organization washes linens, you may want to consider an ozone laundry system. Hotels, colleges, hospitals, nursing homes, correctional facilities, and fitness centers in Wisconsin have already begun using these systems. Here are the facts from Focus on Energy, Wisconsin's statewide program for energy efficiency and renewable energy, to bring you up to speed.

WHAT IS IT?

When you think of ozone, you may think of the ozone layer, the 6 to 30 miles of naturally occurring gas that surrounds the Earth and protects us from harmful ultraviolet rays. However, ozone, or O_3 , can also be man-made and used as a disinfectant and cleaning aid in commercial laundry applications.



Above is a common ozone laundry setup. Image is courtesy of ClearWater Tech, LLC. Parts include: 1. Ambient ozone monitor/controller. 2. Oxygen concentrator. 3. Oxygen delivery line. 4. Ozone generator. 5. Ozone delivery line. 6. Commercial washer. 7. Activation point washer sump.



Ozone is made up of three oxygen atoms that are looking for something else to cling to and become more stable. In the washer, the third oxygen atom breaks away and binds itself to stains. This causes stains to break up and be freed from the fabric. As a result of the ozone treatment, the fabric becomes fluffier, thus improving the ironing process as well as potentially reducing drying time.

How does it work?

Picture a conventional washing machine with an electric-powered ozone generator added onto it. The ozone gas is generated and stored in a sealed tank. Then it's injected into the make-up water stream and is released into the wash tub at a precise phase of the wash cycle.

There are many different methods of introducing the ozone gas as a disinfectant. Consult with your vendor as to the most beneficial strategy for your specific operation.

For more information,
call 800.762.7077 or visit focusonenergy.com.

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THINGS TO CONSIDER...

Ozone laundry systems use electricity to operate. However, they significantly reduce hot water usage in the wash cycle—thereby circumventing the expense of heating water with natural gas. In addition, an ozone laundry system can eliminate the need for disinfectant cycles within the washing process, reducing washing and drying times and resulting in significantly decreased energy use overall.

The type of stains you work with is also a consideration for ozone laundry systems. Ozone may need to be combined with other cleaning agents to remove heavily-soiled spots, including grease.

Another aspect to be aware of is that ozone is considered a toxic gas at high concentrations. Modern ozone systems have safety features built in that eliminate the possibility of high concentrations being generated. Laundry systems only generate the exact amount of ozone required to disinfect the laundry and complete the wash cycles.

ADVANTAGES

Benefits of ozone laundry system include:

- Reduces overall energy consumption by up to 45 percent.
- Kills bacteria 3,000 times faster than chlorine.
- Uses less detergent and chemicals, reducing the amount of toxins returned to water supplies.
- Lowers water and sewer costs.
- May extend the life of linens.

Is it right for you?

An ozone laundry system is particularly well suited for organizations that have 1,000 pounds of laundry or more to wash every day. For instance, a 100-bed nursing home or a 150-room hotel would generate this quantity of laundry.



TAKE ACTION TODAY. SEE RESULTS TOMORROW.

Lower energy costs. Cleaner air and water. A healthier bottom line. These are the results when Wisconsin businesses tap into energy efficiency and renewable energy. To find out how you can reduce energy costs and improve the profitability of your business, call Focus on Energy at **800.762.7077** or visit **focusonenergy.com**.

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Join our online conversation at **focusonenergy.com/socialnetworks** to connect with people who share your interest in saving energy and money at home and work. Also, visit **focusonenergy.com/incentives** for the latest incentives and requirements as Focus offers are subject to change.

Focus on Energy works with eligible Wisconsin residents and businesses to install cost-effective energy efficiency and renewable energy projects. Focus information, resources, and financial incentives help to implement projects that otherwise would not be completed, or to complete projects sooner than scheduled. Its efforts help Wisconsin residents and businesses manage rising energy costs, promote in-state economic development, protect our environment, and control the state's growing demand for electricity and natural gas. For more information, call **800.762.7077** or visit **focusonenergy.com**.



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