

OZONATION SYSTEMS IN LAUNDRIES

Clean and cold water with dissolved Ozone provides excellent cleaning effect in laundry operations. No detergents are needed except for a small % of heavy-soiling pieces. Typical rejection rate in detergent-operated laundries is ~ 5%, in ozone-operated laundries it is lower. Rejected pieces can go through another run, perhaps with small additive that is easily available and environmentally harmless, such as natural enzymes for removing cooking oils, followed by another cycle with ozone.

The discharge water easily meets the toughest environmental regulations. Where water is expensive, we can provide complete system for re-use of the discharge water. Water can be recycled for up to eight weeks in full-time duty operation, but some customers achieved even one year of operation before damping water due to high hardness.

The washing cycle is the same as with detergents.

Examples from our files:

1. Ramada Inn - a hotel in New Jersey - reports savings of 40% (\$ 4,245.-/year) on water and sewer charges, \$ 4,300.-/year on Natural Gas for heating and 54% (\$ 4,380.-/year) on detergents. The investment return depends greatly on the number of washing machines, because one ozone system can serve one or many machines. It was reported that even with just one laundry machine the investment return was very good.
2. Marriott hotels - at two locations: Water usage was reduced by 80%, chemicals reduced by more than 90%, laundering time reduced by 40%, and heating energy savings are 100%. The linen shows no staining and no bacterial reading, "better than ever before".
3. Beachcomber hotel in Hawaii reports \$ 150,000.- savings per year with \$ 99,000.- installed cost of ozone system.

In order to provide the best solution to your laundry operation, please answer the next-page questionnaire.

QUESTIONNAIRE FOR OZONE SYSTEMS IN LAUNDRIES

In order for us to provide fully reliable solution to your water treatment, please answer the following questions.

1. Name the project clearly for our future reference.
2. Provide the brand name of washer (please include model and year).
3. How many of the washers do you have?.
4. What is the water consumption per hour?
5. Do the washer(s) discharge directly into drain?
6. What is the primary laundry source (i.e. hospital linen, restaurant linen, shop towels, roll towels, mats, heavy soil items).
7. A sketch of the layout in the building is needed. Please show a nearby clean and dry room where at least 1 m² (10 ft²) floor space is needed for the ozone generator system. The ozone contact tank requires about the same 3 x more floor space, as close as possible to the laundry machines.
8. Describe the water source quality. For instance city drinking water, surface, chlorinated. Where own well or surface water is the source, please provide the water analysis.

When we receive your answers, we will prepare your project specification. Please call any time if you have any question.