

Using Ozone at Dairy Farms in the CIP Process

When thinking of CIP processes, dairy farms are not usually the first application that comes to mind. However, dairy farms are one of the most common CIP processes used. Each modern dairy farm uses a pipeline to carry the milk from the individual milking station to the final bulk tank (with a few stops in between). Dairy farms are required to clean these pipes after every milking, which may be 2 or 3 times per day. Traditionally hot water with chemicals were used in these processes consuming a large amount of energy and chemical costs. The use of ozone can cut down on energy, wastewater and chemical costs.

Ozone as a Sanitizer

Ozone is an extremely effective sanitizer. Historically the most common sanitizer used in CIP systems has been chlorine. While chlorine is a very effective disinfectant, it has the potential to leave residuals and create potentially harmful by-products. Other chemicals, caustics and acids are used in the CIP process as well. All of these have challenges with storage, handling and transportation due to increasing regulation. These factors along with rising costs have broadened the use of ozone in many applications. Ozone systems can be easily integrated into the CIP cleaning system.

