

Case History Uses of Steam in the Food Industry

Steam is an invaluable tool in industry, playing a critical role in production and processing in critical sectors such as food and pharmaceuticals. However, the quality of the steam used in these environments is a determining factor that directly influences the safety and quality of the final product.

Sterilization and pasteurization

One of the most essential uses of steam in the food industry is sterilization and pasteurization. These processes are critical for eliminating pathogenic microorganisms and extending the shelf life of products such as canned foods, dairy, and juices. High-quality steam ensures that these processes are carried out effectively, leaving no residue or altering the organoleptic properties of the product.

Cooking & Processing

In the food industry, steam is used for cooking, steaming, and processing a wide range of foods. From bread production to pre-cooked food processing, steam provides an efficient and uniform method of heat transfer. Steam quality is crucial to maintaining the integrity of food and preventing unwanted contamination.



Sterilization and decontamination

In the pharmaceutical field, sterilization is a critical phase in the production of medicines and medical products. High-quality steam is used in autoclaves and sterilization systems to kill microorganisms, ensuring that pharmaceuticals are safe for human consumption. In addition, steam plays a key role in the decontamination of equipment and work areas.

The Importance of Steam Quality

Purification and removal of contaminants

The quality of steam used in the food and pharmaceutical industry refers not only to its chemical purity, but also to the absence of physical and biological contaminants.

STEAM
GENERATORS

Advanced
Steam
Technology
that Is Safe,
Efficient
and Reliable

Stainless steel steam generators and advanced filtration systems are crucial to ensure that the steam produced meets the highest quality and safety standards.

Impact on product safety and quality

Low-quality steam can introduce unwanted impurities and microorganisms into the final products. Not only does this compromise consumer safety, but it can also affect the efficacy of pharmaceuticals. Therefore, investing in high-quality steam generation systems is a preventative measure that supports product integrity and safety.

In general, steam is not only good in a steam bath, but it can perform a vast number of functions in industries. For example, in the food and pharmaceutical industry. Ensuring the quality of the steam used in these critical sectors is essential to maintaining the safety and quality of the final products.

Clayton's investment in high-quality steam generator technology not only complies with strict regulations, but also ensures consumer confidence and the efficiency of industrial processes. Prioritizing vapor quality is undoubtedly a valuable investment for any company in these industries.

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5555.8651.00

ventas@clayton.com.mx
Manuel L. Stampa No.54
Col. Nueva Industrial Vallejo
Ciudad de México
www.clayton.com.mx