



how do hospital boilers work

Preface

Boilers are also widely used in hospitals. Most of the boilers used in hospitals are steam boilers, which can provide sufficient steam for disinfection, laundry and cooking, heating, purification of air conditioning, bathing and other links in the hospital. The steam quality of the steam boiler will directly affect the operation of the entire system of the hospital. Once the steam boiler in the hospital fails, it will not only affect the normal operation of the hospital, but also pose a major threat to the lives of patients and employees.





Disinfect

Hospitals use a variety of medical equipment, tools, and instruments, especially those used to perform surgery. Of course, these utensils need to be sterilized before being used on patients. This is another important use of boilers in hospitals. Part of the steam generated by the boiler is pumped into an autoclave, which is usually located in a laboratory or surgical area. Hospital laboratories and operating rooms routinely use autoclaves to sterilize various instruments required for medical procedures. Without it, hospitals cannot guarantee that their medical equipment and instruments are germ-free, which is essential for any hospital.



Autoclaves work by using steam to heat medical instruments above their



boiling point, thereby sterilizing them. Therefore, hospitals need a good source of on-demand steam so that they can autoclave instruments when needed. Hot steam helps kill any bacteria and germs on medical tools, ensuring they are free of any harmful microorganisms . Steam heating is also a safer method of disinfection than using potentially harmful chemical agents.

Laundry

Most people who go to a hospital have never seen a laundry room, but if they have, they understand that hospitals do a lot of laundry every day. After all, patients need all the gowns, sheets and towels they use to be completely clean and free of germs. Therefore, the hospital boiler system needs to be strong enough to generate all the steam needed to heat the laundry room water.





Kitchen

Like laundry rooms, most people don't realize how dependent hospital kitchens are on boiler systems. Kitchen staff must prepare meals for every patient in the hospital, as well as most staff and visitors. Cooking all of these meals requires a lot of hot water, and utensils need to be sanitized after use.

Best Medical Steam Boiler System

It was clear that the hospital needed a boiler that operated reliably and efficiently to meet its enormous steam needs. But a good boiler system is not only to provide sufficient steam, but also to protect the environment and reduce operating costs. The demand for steam will be different during the day and night, so the intelligent boiler control system appears. Most importantly, we can run the boiler on demand. The CN boiler that we serve more hospital projects is gas steam boiler with electric steam generator.

For these reasons, many hospitals are turning to CN boiler systems for their steam needs. The CN boiler design is more energy-efficient, and the CN condensing boiler has a low nitrogen oxide emission rate, which helps to protect the environment. The boiler system uses an intelligent control system that allows multiple boilers to be used in series, so



individual boilers can be started and shut down according to fluctuating demand throughout the day. This type of configuration also provides much-needed redundancy, so even if a piece of equipment fails and requires repair, the hospital doesn't end up without power. Many hospitals have seen a significant increase in efficiency and a significant reduction in energy costs after installing CN boilers in their steam plants.