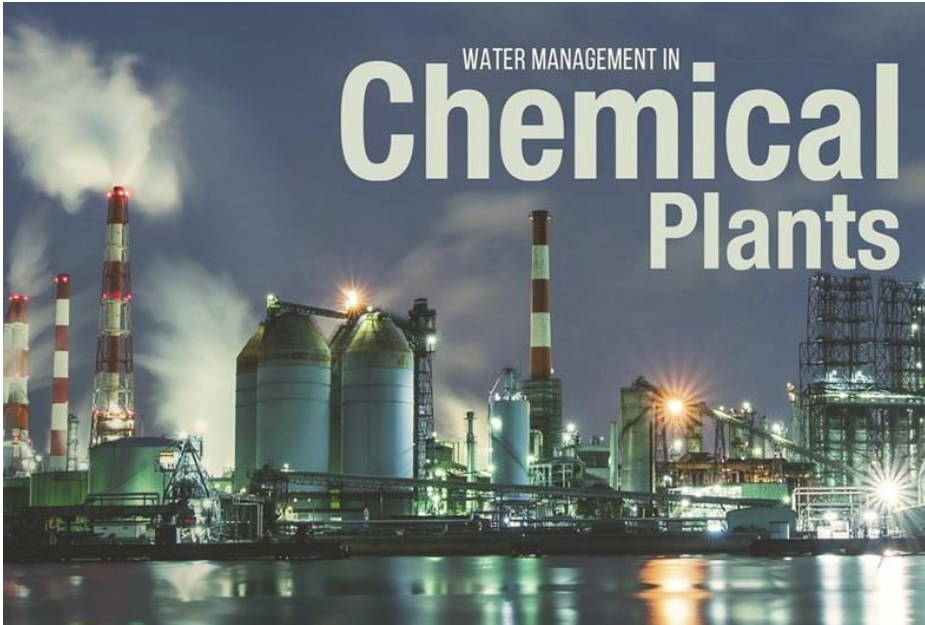


ELECTRIC IMMERSION WATER HEATER INDUSTRIAL APPLICATIONS

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By Ilan Toledano
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One of the most common tools for industrial heating applications is the electric immersion water heater.



Electric immersion water heaters are used in industrial applications for their fast and efficient heating. Being immersed allows for direct heat transfer, resulting in quick heating as well as minimizing energy loss. This makes them more efficient than other heaters.

Another reason for their popularity is the flexibility of being electrically powered. Coupled with unstable fuel costs, the flexibility and consistency of electric heating are unmatched. Electrical power is also much cleaner, with less of an environmental impact.

When it comes to efficiency and economy, electric immersion water heaters are the best option in their category. With that in mind, we take a look at how they are being used in a variety of industries.

Electric Immersion Water Heaters in the Construction Industry

Immersion water heaters have a number of qualities that make them ideal for the construction industry. For one, being immersed in the fluid/gas that they are acting on means they are protected from any exterior damage. Being on a construction site leaves equipment exposed to the elements, dust, and hazards. But inside of a storage tank or container, equipment is kept safe from environmental damage.

There are many uses for [immersion water heaters in the construction industry](#). In addition to processes like water heating and freeze protection, a common application is steam generation.

These electric heaters have a high degree of temperature control, with minimal required supervision. This makes it efficient for steam generation which can be used for construction site cleanup and sterilization.



Electric Immersion Water Heaters in the Food & Beverage Industry

From cooking to cleaning, the [food & beverage industry uses immersion heaters](#) for several applications.

Industrial food preparation relies heavily on electric water heaters. They are efficient and reliable for pre-heating as well as for use in industrial brew kettles and ovens. Through automation, electric water heaters can maintain specific temperatures without supervision. This prevents undercooking, overcooking, or spoilage.

Cleaning and sterilization is another important aspect of the food & beverage industry. The ability to reach high temperatures quickly make immersion water heaters ideal for a number of cleaning processes.

Electric Immersion Water Heaters in the Pharmaceutical Industry

The pharmaceutical industry also takes advantage of electric immersion water heaters. Much as with the food & beverage industry, immersion heaters here are used for both preparation and cleaning/sterilization.

The [laboratory industry](#) uses immersion water heaters to manufacture pharmaceutical products. One common use for this is in batch processing. For this process, [screw plug immersion heaters](#) are frequently used.

Transfer lines are one of the most easily contaminated systems in pharmaceuticals. As such, they need cleaning processes that are reliable as well as easy to replace or repair. These are areas where circulation heaters excel.



Electric Immersion Water Heaters in the Power Industry

Immersion water heaters play important roles in the power industry. In addition to their roles in heating, reservoirs, storage tanks, and water wash systems, they have much-needed safety features. For oil and gas applications they can come equipped with explosion-proof housing.

The oil, gas, and chemical industries all rely heavily on immersion heaters for safe and efficient processes. Heat transfer systems and pump systems require immersion heating for effective and economical heating.

Their uses are not limited to traditional power either. [Immersion water heaters are being incorporated in solar power systems](#). They make solar powered water heating more effective and efficient.



Electric Immersion Water Heaters in the Agriculture Industry

Whether working with livestock or crops, immersion water heaters are essential to the agriculture industry. They are protecting harvests, animals, and equipment, as well as assisting industrial processes.

One of the common uses of [water heaters in the agriculture industry](#) is in pasteurization. Electric circulation heaters are used for milk and dairy production, playing an essential role in sanitization and preparation.

Electric water heaters are also used in heating warehouses, storage areas, and livestock holdings. This keeps livestock healthy, equipment safe, and stored crops from spoiling.

Getting the Right Immersion Water Heater

Wattco builds electric immersion water heaters for specific tasks. To get the most effective process, the right electric heater is a necessity. [Wattco immersion heaters](#) can be customized to fit just about any appropriate need. For help in selecting the right heater for your application or for a quote, [contact Wattco](#) today.