

## Press Information

### **Kyocera's neutralisation systems allow for customised solutions and easy handling when cleaning wastewater from CIP at the point of origin**

**Neutralisation systems from Kyocera ensure the efficient purification of waste water generated by "Cleaning in Place" processes, thereby guaranteeing the highest product quality and low costs.**

**Kyoto/London, 26. October 2021** KYOCERA Fineceramics Solutions GmbH, based in Mannheim, Germany, has more than 30 years of experience in the development and production of neutralisation systems for the pharmaceutical and chemical industry as well as for the food and beverage industry. In order to meet the stringent hygienic requirements of the respective industries and to ensure exacting neutralisation processes, Kyocera offers customisable environmental equipment for treating process wastewater.

#### **Simple and efficient cleaning on site**

Kyocera's neutralisation units provide safe and reliable treatment of wastewater directly at the point of origin. The modular system makes this possible without the need for time-consuming dismantling of production facilities: a variety of cleaning liquids are efficiently and safely mixed and thereby neutralised following the "Cleaning in Place" (CIP) process prior to disposal. This process allows the liquids to be disposed of as neutral wastewater. Otherwise, the liquids would have to be collected in separate containers and disposed of individually and at great expense.

#### **Cleaning the main system of a pharmaceutical company, for example, looks like this:**

The equipment that manufactures the product is cleaned regularly with a range of liquids using the CIP process. This generally happens after the production of a batch.

The cleaning liquids used are either circulated through the main system or collected in a container. These must be neutralised in accordance with the CIP process, which is where Kyocera's neutralisation systems come in: the wastewater from the cleaning process is buffered in a storage tank of the neutralisation system. This process can also be carried out in the container in which the liquids have been collected. The neutralisation system then takes the liquid from the buffer tank in batches, neutralises it, and pumps it directly into the sewer.

In detail this means that in order to transform harmful byproducts resulting from the CIP process into harmless end products, an acidic or alkaline solution is required. This is first diluted to the

desired concentration in a recirculation tank. Kyocera's neutralisation systems use self-regulating metering valves to supply the required reaction chemicals in a controlled manner, thereby ensuring the greatest possible safety against contamination by acid or alkali. The neutralised solution can then be disposed of safely. The neutralisation systems are easy to control electronically through a user-friendly and easy-to-read display.

### **Maximum benefit with minimum effort**

It is absolutely essential to integrate the neutralisation system into the overall concept of the production cycle. This requires that the existing or planned neutralisation system be integrated into the infrastructure plan. Kyocera is able to draw on experience from previously implemented projects and offer the right solution for each individual facility. Well-defined interfaces that connect to the main system via common bus systems simplify the exchange of the necessary data and reduce the number of user interfaces to a minimum.

With this in mind, Kyocera developed a customised neutralisation system that links different tasks throughout the manufacturing process. For example, the system can be fully integrated into the control technology and, if desired, monitored and maintained via teleservice. Not only does this maximise the benefits while taking up minimal space, but it is also user-friendly and easy to use. Modern manufacturing processes integrate all production equipment and the necessary ancillary units, such as temperature control or compressed air supply systems, into a single unified system that can be operated and monitored from a central control station.



For more information on Kyocera: [www.kyocera.de](http://www.kyocera.de)

## About Kyocera

Headquartered in Kyoto, Japan, KYOCERA Corporation is one of the world's leading manufacturers of fine ceramic components for the technology industry. The strategically important divisions in the KYOCERA Group, which is comprised of 297 subsidiaries (as of March 31, 2021), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the most experienced producers of smart energy systems worldwide, with more than 40 years of know-how in the industry. The company is ranked #549 on Forbes magazine's 2020 "Global 2000" listing of the world's largest publicly traded companies.

With a global workforce of over 78,000 employees, Kyocera posted sales revenue of approximately €11,74 billion in fiscal year 2020/2021. The products marketed by the company in Europe include printers, digital copying systems, semiconductor-, fine ceramic-, automotive- and electronic components as well as printing devices and ceramic kitchen products. The KYOCERA Group has two independent companies in the United Kingdom: KYOCERA Fineceramics Ltd. and KYOCERA Document Solutions Ltd.

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation — established by Kyocera founder Dr. Kazuo Inamori — to individuals worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (approximately €763,000\* per prize category).

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