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New model of Colormetry (CMU-324G) raw water hardness monitoring device
-Up to 40% cut in running costs when used with the MW System
Integrated Water Softener, even overseas -

In January 2021, MIURA CO.,LTD. (Head Office: Matsuyama, Ehime; President & CEO: MIYAUCHI Daisuke), Japan's leading manufacturer of industrial boilers, launched a new model of Colormetry (CMU-324G) raw water hardness monitoring device for boiler systems and water treatment systems. The new model is able to handle water quality around the world.

It is compatible with the high-hardness water found overseas that could not be handled previously. In combination with the MIURA MW System Integrated Water Softener, it cuts running costs by up to 40% through more efficient operation and savings in regeneration salt.

The Colormetry series are compact, fully automatic water quality monitors that adopt a one-touch replaceable cartridge reagent system. A total of about 50,000 units have been shipped worldwide since the series was launched in 1997.

Automatically monitoring the water quality of boiler systems and water treatment systems significantly reduces the time and effort required for water management, and is favored by many customers.

Colormetry for Raw Water Hardness that was recently upgraded to a new model was launched in 2002 for regeneration control of water softeners. A water softener removes the hardness from the raw water and is regenerated with regeneration salt before its removal capacity is exhausted. Accurately determining the raw water hardness is effective for optimizing the regeneration frequency. Colormetry for Raw Water Hardness is a product that is used in combination with the MW System Integrated Water Softener to contribute to reducing the running costs of the water softener and preventing hardness leakage by adjusting the water sampling volume (automatically setting the regeneration timing) in accordance with fluctuations in raw water hardness. The previous concentration measurement upper limit of 140 mg/L could handle 98% of raw water in Japan (MIURA in-house research). However, as the water quality in some countries and regions overseas has a hardness exceeding 140 mg/L, we have launched a new model with an expanded measurement range as a product that can be widely used overseas.

[Product Specifications]

Model	CMU-324G
Measured component	Hardness
Measurement method	Colorimetric method
Concentration measuring range	10 to 400 mg/L (Previously 10 to 140 mg/L)
Raw water pressure range	0.05 to 0.49 MPa
Power supply	AC/DC adapter
External dimensions	125 (W) × 100 (D) × 515 (H) mm

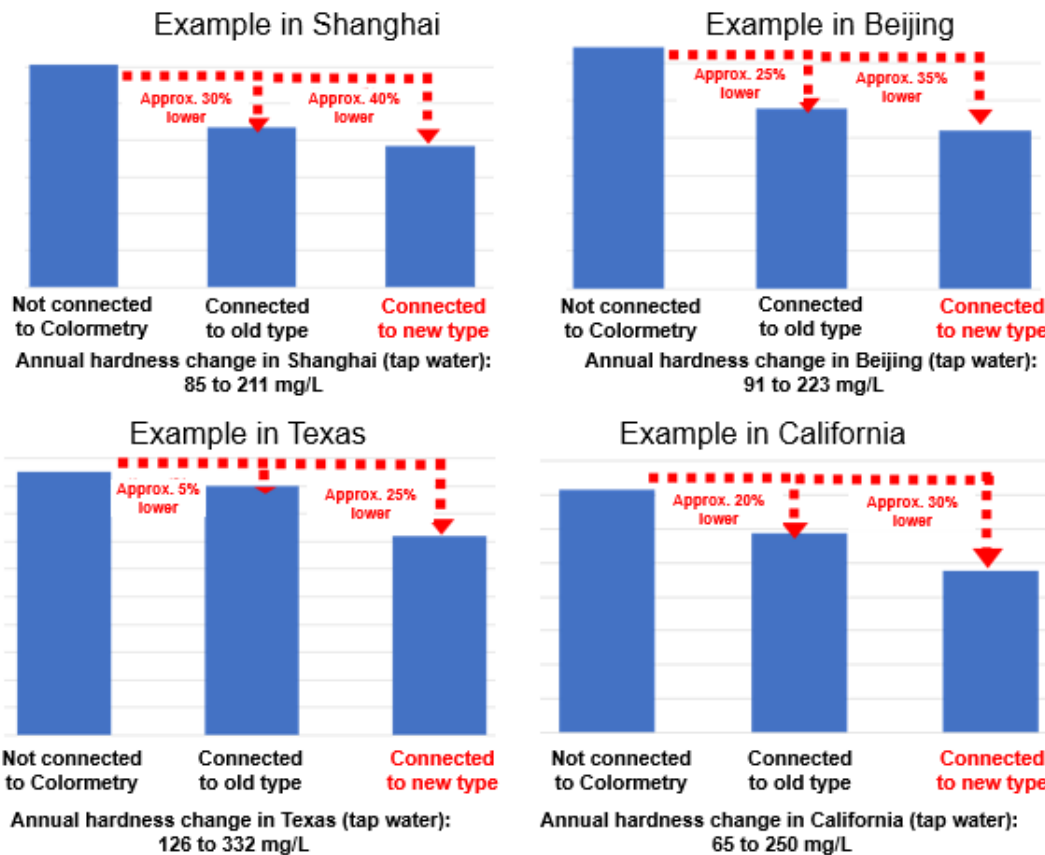


▲ CMU-324G Colormetry for Raw Water Hardness

[Features]

(1) Used in combination with the MW System Integrated Water Softener to reduce running costs, even in regions with high-hardness water

The new Colormetry for Raw Water Hardness has an extended concentration measuring range up to 400 mg/L. In the 19 countries and regions around the world where the MW System Integrated Water Softener is delivered, it can be used in combination with the MW System Integrated Water Softener to reduce running costs through more efficient operation and savings in regeneration salt.



▲ Comparison of MW System Integrated Water Softener running costs (MIURA in-house research)

(2) Improved measurement performance

By reviewing the conventional hardness evaluation method, we have enhanced the resistance to factors that affect measurements and made it possible to accurately determine hardness in water across a wider range of water qualities than before. This is expected to be extremely effective for the regeneration control of the MW System Integrated Water Softener based on the raw water hardness measurement results.

[Flow Diagram for Introducing the Product]



Based on our Group Mission of contributing to creating a society that is environmentally friendly and ways of living that are clean and comfortable through our work in the fields of energy, water, and the environment, MIURA is striving to develop new technologies and business models to preserve limited resources for humanity a century from now.

■ Colormetry (CMU-324G) raw water hardness monitoring device meets the relevant SDG targets



▼Inquiries

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