

# Developing Advanced Water Purification Technologies and High-value-added Waterworks Technologies

## Features

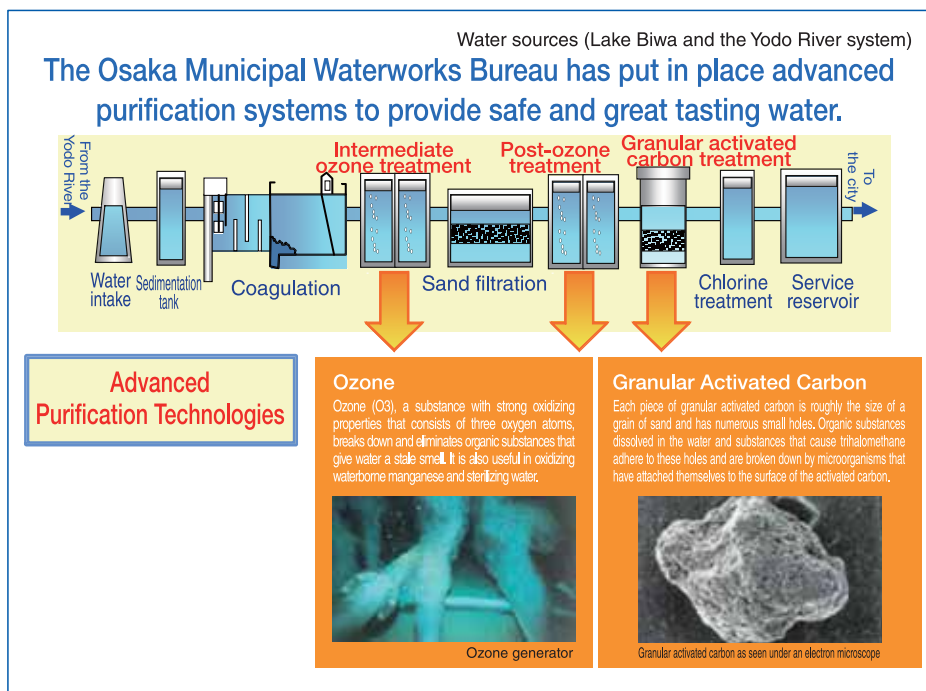
- The Osaka Municipal Waterworks Bureau provides a high level of water quality management, reflected in its status as Japan's first water utility to be certified under the water GLP regime (good laboratory practices for water quality testing) and the world's first ISO 22000 certification for public waterworks.
- Unpleasant odors and tastes are removed and trihalomethane levels reduced by advanced water purification.
- The public and private sectors are working together to counteract the "heat island" effect by spraying water in dry mist form that has been treated by advanced purification.

## Overview

(Technical principles, actions, etc.)

The City of Osaka, which began supplying highly-purified water to all city areas in March 2000, provides a stable supply of safe and great tasting water by working to further enhance water management practices and develop associated technologies, for example by strengthening measures designed to address the dangers of harmful substances such as agrichemicals and endocrine disruptors. Recently, the Osaka Municipal Waterworks Bureau became the first water utility in Japan to be certified under the water GLP regime (good laboratory practices for water quality testing), and the high level of water quality management it provides is reflected in the world's first ISO 22000 certification for public waterworks in December 2008.

Additionally, the public and private sectors have been working together recently to employ the city's water supply in measures designed to improve the urban environment, for example by taking advantage of the city's extensive water system to combat the "heat island" effect by spraying water in dry mist form that has been treated by advanced purification and subjected to high-level water quality management.



Advanced Purification Technologies

## Effects

◎ Thanks to the use of advanced purification technologies, the City of Osaka is able to supply safe tap water through high-level purification and water quality management that completely eliminates stale smells and other unpleasant odors and tastes. "Honmaya" brand bottled water, which is manufactured using the same advanced purification process, is widely regarded as being of the same quality as mineral water.



"Honmaya" bottled water is treated by advanced purification by the Osaka Municipal Waterworks Bureau.



Dry misting using water that has been treated by advanced purification (Yodoyabashi Bridge)

◎ It has been confirmed that water misting programs can reduce energy consumption by air conditioning systems in residential and other areas, and the use of such safe water that has been treated by advanced purification allows these programs to provide both cooling and comfort with peace of mind.

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