

Direct Water Service System to Super High-rise Buildings and Situation of Introduction Thereof



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INTRODUCTION

- In order to serve customer needs for high-quality tap water, the Tokyo Metropolitan Government has established its own water quality management targets and introduced an advanced water treatment system that combines biological activated carbon and ozonation for all water at major water treatment plants.
- Tokyo also promotes the spread of a "direct water service system" that supplies safe, high-quality to water taps, and as a result over 90% of newly constructed buildings use the direct water service system.
- Aiming for still further propagation of the direct water service system, Tokyo since 2009 has implemented a "Pressure Water Service System (series type)," the product of technical study of water supply systems that feature the installation of multiple booster pumps in series.
- Today, it is even possible to implement direct water supply systems in super high-rise buildings, which previously were unable to use the direct water service system.
- This paper reports on the contents of the technical study conducted for the implementation of the "Pressure Water Service System (series type)," as well as on the successful implementation of such a system.

Pressure Water Service System (series type)

(1) Water supply systems used in Tokyo

(2) Pressure Water Service System (series type)



Technical issues and the verification of solutions

- (1) Technical issues in implementation
 - pumps when water is used
 - In this situation, domestic standards (JWWA B 130) for delivery pressure fluctuation (flow rate fluctuations, suction pressure fluctuations, transient



Implementation and direct water supply status (as of the end of March 2017)



References

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