

Installation of an Additional 36 t/h Flue and Smoke Tube Boiler

In response to increased heating demand, MM21 DHC has added another 36 t/h flue and smoke tube boiler to the No. 2 Plant. It is the same type as was installed in December 2010 and is the largest capacity boiler of its kind currently being operated in Japan.

Adding this boiler further strengthens interconnections with the Central Plant, enhancing the safety of heat supply in the district.

Specifications of the Flue and Smoke Tube Boiler

| | No. 2 Plant Existing and new equipment | Central Plant Existing equipment | | |
|---|--|-------------------------------------|----------|---------|
| | | | | |
| Boiler capacity | 36.0 t/h | 24.0 t/h | 15.0 t/h | 9.6 t/h |
| Number of installed units | 2 | 1 | 1 | 1 |
| Boiler efficiency* (Including the amount recovered by the economizer) | 93% or more | 92% or more | | |
| Year installed | 2010 2014 | 1988 | 1993 | 1988 |

* Ratio of heat absorption of steam generated in relation to the total calorific value of the fuel supplied to the boiler

$$\text{Boiler efficiency} = \frac{\text{Generating capacity} \times (\text{Heat contained in steam} - \text{Heat present in feed water})}{\text{Fuel consumption} \times \text{Calorific value of fuel}} \times 100$$



The additional 36 t/h flue and smoke tube boiler installed in the No. 2 Plant in September 2014