

Installation of an Additional Flue and Smoke Tube Boiler. This boiler features Japan's Largest Capacity

In response to increased heating demand arising from development in the district, MM21 DHC added another 36t/h flue and smoke tube boiler, which is the largest capacity boiler of its kind in Japan. The additional boiler was installed in the Central Plant in December 2021.

The boiler is a large-capacity, high-efficiency unit that makes effective use of limited space for equipment installation. It also contributes to a stronger business continuity plan because it can switch fuel sources from city gas to stockpiled kerosene in case of an emergency.

Going forward, MM21 DHC will continue to enhance equipment in step with development in the district and further increase the stability of heat supply.

Table: Specifications of the Flue and Smoke Tube Boilers

	Central Plant New equipment	No. 2 Plant Existing equipment	Central Plant Existing equipment		
	Boiler capacity	36.0 t/h	36.0 t/h	15.0 t/h	24.0 t/h
Number of installed units	1	3	1	1	1
Boiler efficiency	93% or more	93% or more	92% or more		
Year installed	2021	2010, 2014, 2019	1993	1988	

* Ratio of heat absorption of steam generated in relation to the total calorific value of the fuel supplied to the boiler
(Including the amount recovered by the economizer)

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



Flue and Smoke Tube Boiler