



Flue Gas NOx Removal System

Simultaneous SO₂ absorption, oxidation and dust removal

Mitsubishi Hitachi Power Systems
www.mhps.com

The company was established in 2014 by the merging of thermal power generation divisions of Mitsubishi Heavy Industries and Hitachi.

Nitrogen oxides (NO_x) in the flue gas from fossil fuel combustion boiler is reduced into harmless nitrogen and water vapour through the catalyst. Ammonia is injected before the catalyst and reacts with nitrogen oxide on the surface of catalyst, then nitrogen oxide is decomposed into harmless gas. The catalytic plate is highly resistant to abrasion and prevents the ash clogging. The system was developed 40 years ago, and it is used in more than 1400 plants globally.

This NO_x removal system guarantees a high NO_x removal rate (reduces NO_x concentration below a specified value for all fossil fuels). NO_x reduction is integrated with the boiler/waste heat recovery boiler. Optimisation of NO_x removal catalyst is possible according to customer's need. It can control various pollutant such as mercury and SO₃ simultaneously.

