The state of the art Technology for the Environment

State of the art generation technology to provide an environmentally friendly engine solution.

**NOx Reduction Technology (option)**

By utilizing the combustion control system where we have developed Mitsubishi Stratified Water Injection System, NOx reduction at engine terminal can be achieved by a large margin.

![NOx Reduction Technology Diagram](image)

**Stratified Water Injection System**

- Injection valve
- Check valve
- Water injection pump
- Oil injection pump
- Pressure regulation check valve

**NOx Removal System**

- Engine
- Ammonia injection device
- Reactor
- Stack

Maximum 95% of NOx removal can be achieved.

For 10,000 kW class NOx removal system

- Principle of gencification process
- Honeycomb-type catalysts

- High efficiency
- Dust free
- Maintenance free
- Easy catalyst replacement

**Technology for Odor Component Reduction (option)**

Oxidation catalyst equipment can reduce odor component in exhaust gas.

- System flow
- Location

Reaction principle:

Aldehyde: main odor components are oxidized by oxidation catalyst equipment.

R-CHO + O₂ → CO₂ + H₂O

It is possible to locate the oxidation catalyst equipment in exhaust gas silencer without changing the standard plant arrangement.
**KU Customer Support Center**

Alarm messages and engine data are transferred from Customer’s power stations to “KU Customer Support Center” of MHI 24 hours per day.

KU gas engine can be applied this system.

Any KU diesel engine can be also equipped with this system additionally.

※Due to the facilities and conditions of Customer, this system may not be applied in some case.

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**MHI’s World Network**

MHI can provide various kinds of after-sales service: life extension, parts supply, repowering, environmental modification, etc., with MHI’s network all over the world.

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**As for contact, please refer to the back side of the cover of the catalogue.**