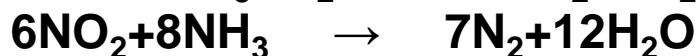


# SCR denitration system

NOx reduced to N<sub>2</sub> and H<sub>2</sub>O with Catalyst



Exhaust

Reductant  
(Urea-Water / Ammonia )

Exhaust

Reductant  
injection nozzle

Catalyst  
(Titanium, Vanadium)

Urea hydrolyzed to NH<sub>3</sub> and CO<sub>2</sub>  

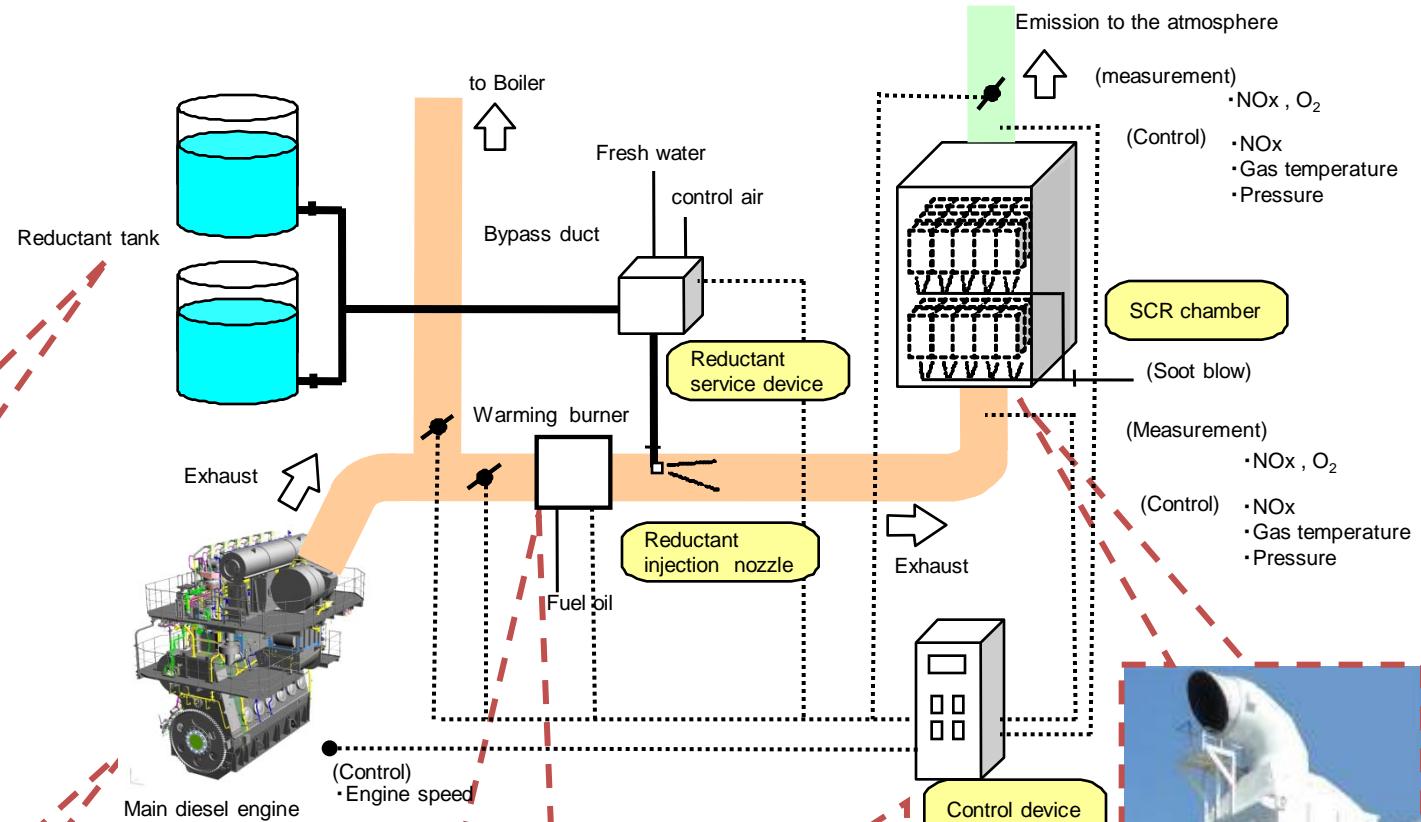
$$(\text{NH}_2)_2\text{CO} + \text{H}_2\text{O} \rightarrow 2\text{NH}_3 + \text{CO}_2$$



※SCR (Selective Catalytic Reduction)

An exhaust-gas after-treatment system, reducing NOx to N<sub>2</sub> and water with Catalyst by injecting Reductant into the exhaust

# SCR system conceptual diagram



Emission to the atmosphere

(measurement)  
• NOx , O<sub>2</sub>(Control)  
• NOx  
• Gas temperature  
• Pressure

SCR chamber

(Soot blow)

(Measurement)  
• NOx , O<sub>2</sub>(Control)  
• NOx  
• Gas temperature  
• Pressure

Control device