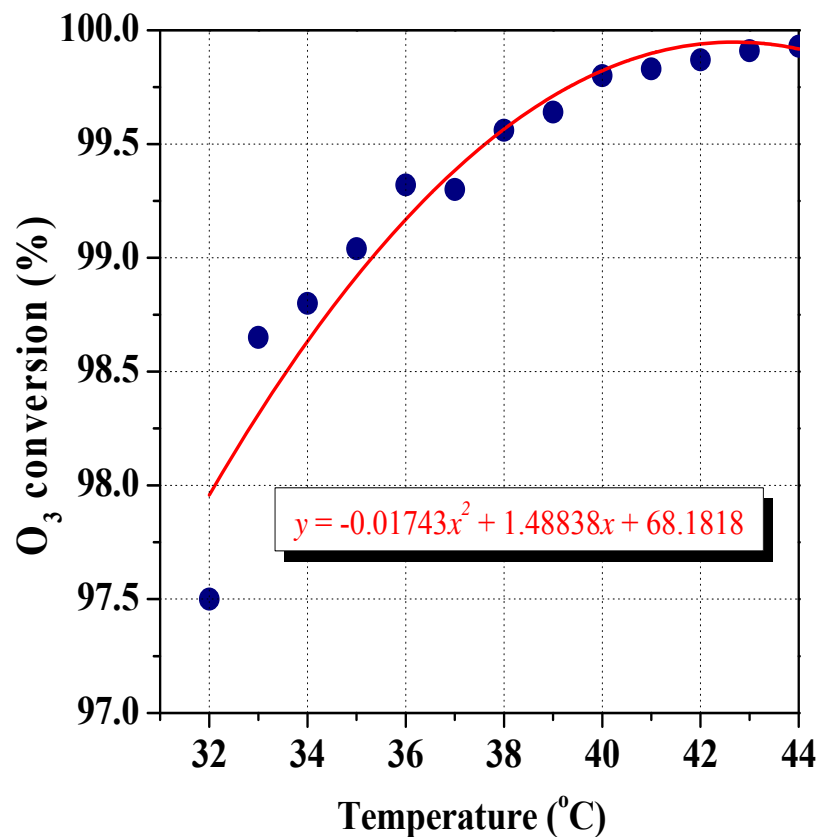


Ozone Decomposition at 32~44 °C



Effect of temperature on O₃ decomposition

Test condition

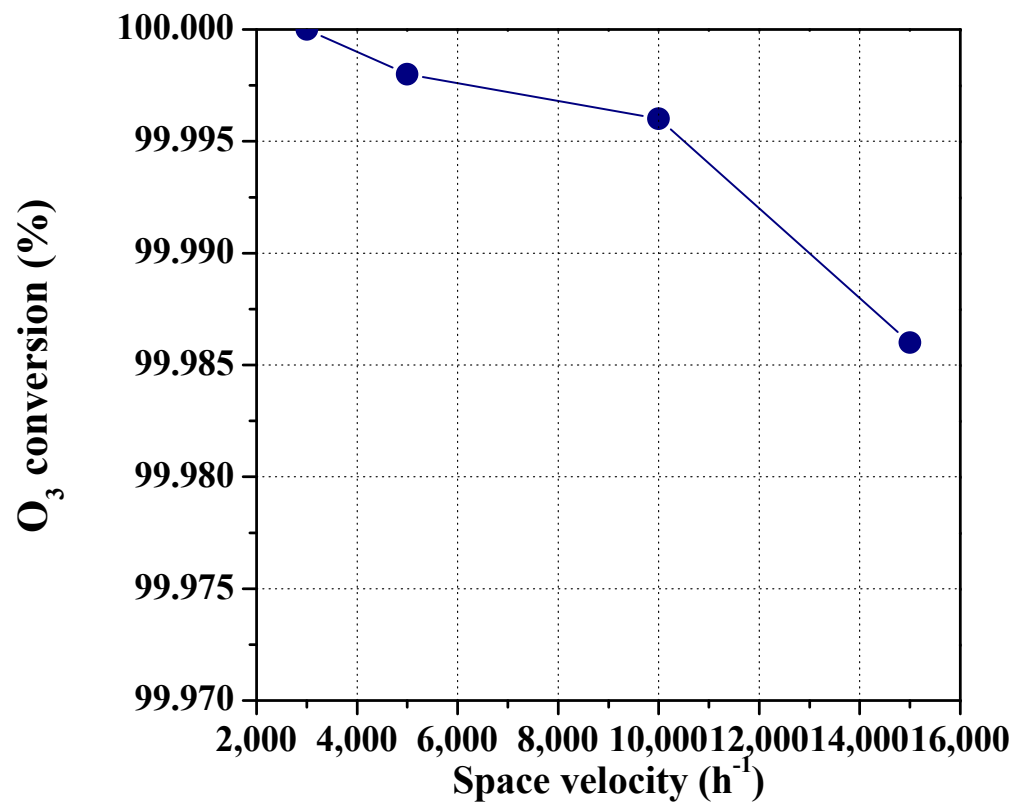
Catalyst	Purelyst MD-101
Shape/Size	Pellet/3 mm Φ
Temperature	32~44 °C
Space velocity	10,000 h ⁻¹
O ₃ Conc.	140 ppmv
O ₂ Conc.	20 vol%
Analyzer	UV-100 (Eco Sensors)



Bench reactor



Ozone Decomposition @ 45 °C



Effect of space velocity on O₃ decomposition

Test condition

Catalyst	Purelyst MD-101
Shape/Size	Pellet/3 mm Φ
Temperature	45 °C
Space velocity	3,000~15,000 h ⁻¹
O ₃ Conc.	500 ppmv
O ₂ Conc.	20 vol%
Analyzer	UV-100 (Eco Sensors)

Catalytic O₃ Decomposition System



Water purification plant



Ozone generator

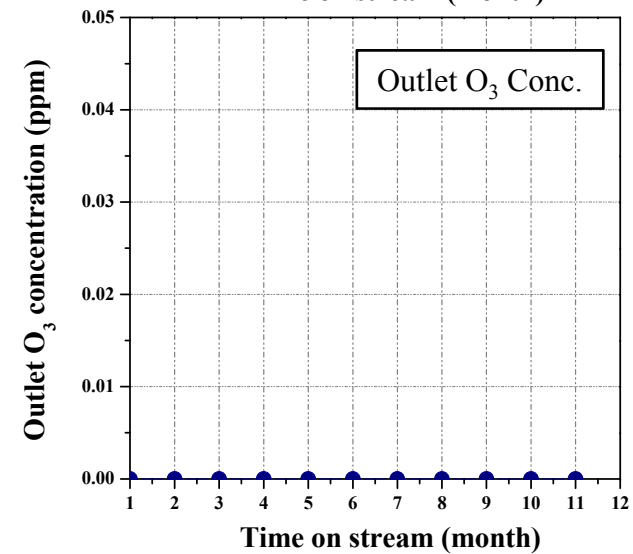
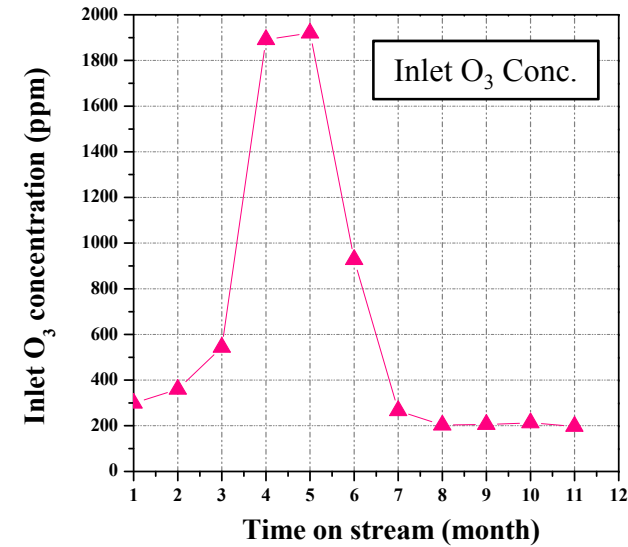


Catalytic O₃ decomposition system



Operation condition

Site	Water Purification Plant
Water purification capacity	0.8 million ton/day
O ₃ generation	20 kg/h
Flow rate	800 Nm ³ /h/unit
Catalyst	Purelyst MD-101
Shape/Size	Pellet/3 mm Φ
Reaction Temp.	45 °C
Space velocity	3,000 h ⁻¹



Catalytic O₃ decomposition test result
(Test period : Apr. 2010~Mar. 2011)