

Reduces production costs, saves energy, and helps preserve the global environment

MU Green Technology®

ミュースクラバー®
MU SCRUBBER

New possibilities for coal-fired thermal power!

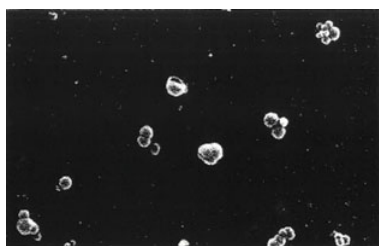
Highly efficient gas cooling, absorption and dissipation as well as dust removal.

Maintenance-free — can operate continuously for 8,000 hours each year.

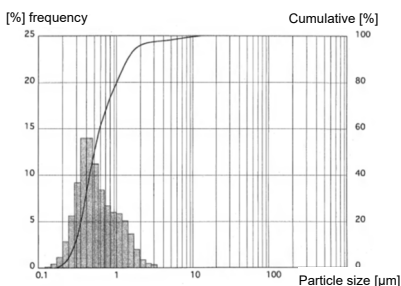
From the company that was the first in Japan to market an absorber using a hydrolysis reaction for silane gases* with a static fluid mixer

* SiCl₄, SiH₃Cl, SiH₂Cl₂, Si(CH₃)Cl₃, SiF₄, etc.

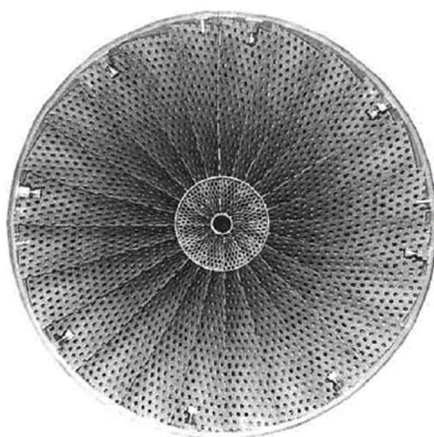
The key was the invention of the **MU Static Spiral Perforated Wings®**. The spiral internal MU-SSPW unit can be fabricated up to a diameter of 10.0m.



SEM photograph of silane oxide in absorption liquid



Particle diameter and particle size distribution of SiO₂ following dust removal



Diameter 1,800mm
 MU-SSPW

MU Scrubber effect



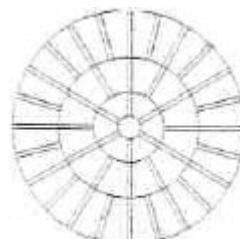
Before deploying MU Scrubber



After deploying MU Scrubber

Applications

1. System for carbon capture and storage (CCS) of gaseous carbon dioxide (CO₂) emitted by coal-fired thermal power plants and cement factories.
2. System for absorption, refining and capture of coal oven gas (COG) emitted by coking plants, which includes approximately 55% hydrogen.
3. Hydrolysis treatment system for complete removal of dust and HCl from gaseous silicon tetrachloride (SiCl₄) and titanium tetrachloride (TiCl₄).
4. Treatment system for removal of fine particle (0.3μm or smaller) dust and hazardous gases emitted from waste incineration plants in urban areas.
5. Absorption treatment system for use in the event of an emergency atmospheric release of large quantities of gaseous NH₃.
6. Low pressure loss vent purification system for use in the event of an accident at a nuclear power station.
7. Direct absorption, separation and capture system for gaseous CO₂ in air.
8. Gas-liquid contact absorption system for seawater and stored gaseous CO₂.
9. Desulfurization and dust removal system for large vessels using seawater.
10. System for purifying tritiated water discharged from nuclear power stations using a gadolinium aqueous solution.



Three concentric layer MU-SSPW

USP	
4.466.741	7.510.172
4.747.697	7.975.991
4.878.925	10.124.396
5.605.400	10.195.695
6.431.528	11.253.812



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Technology partnership: WU USA CORPORATION

Patents: Japan, USA, EU, China, Czech Republic, India, Singapore



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