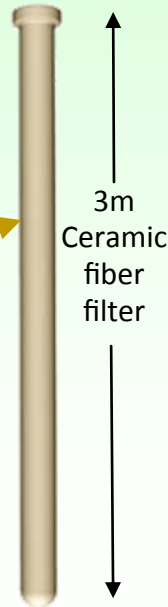


# Catalytic Ceramic Fiber Filter

*Innovative Dust Collector, All in One Design*



## De-Dust!

- ◆ Less than 0.001 gr/dscf (2mg/m<sup>3</sup>) outlet particulate

## DeSOx!

- ◆ Up to 97% HCl removal
- ◆ Up to 95% SO<sub>2</sub> removal

## DeNOx!

- ◆ Up to 95% NO<sub>x</sub> removal

### Ceramic Filter



**puretek™**  
BI-FUNCTIONAL FILTER



### SCR Catalyst



### Catalyst Ceramic Filter



**puremax™**  
TRI-FUNCTIONAL FILTER

## Features:

- **Replace Bag Filter:**  
Similar usage and high pressure impulse backwashing to traditional bag filter.
- **High-temp resistant & anti-corrosion:**  
Greater performance on high-temperature resistance and corrosive chemical resistance than bag filter.
- **Extended Lifespan:**  
Longer lifespan than ESP.
- **Heat Recycling:**  
The clean air after removal of dust and SO<sub>x</sub> at high temperature is more valuable to be recycled.

## Application:

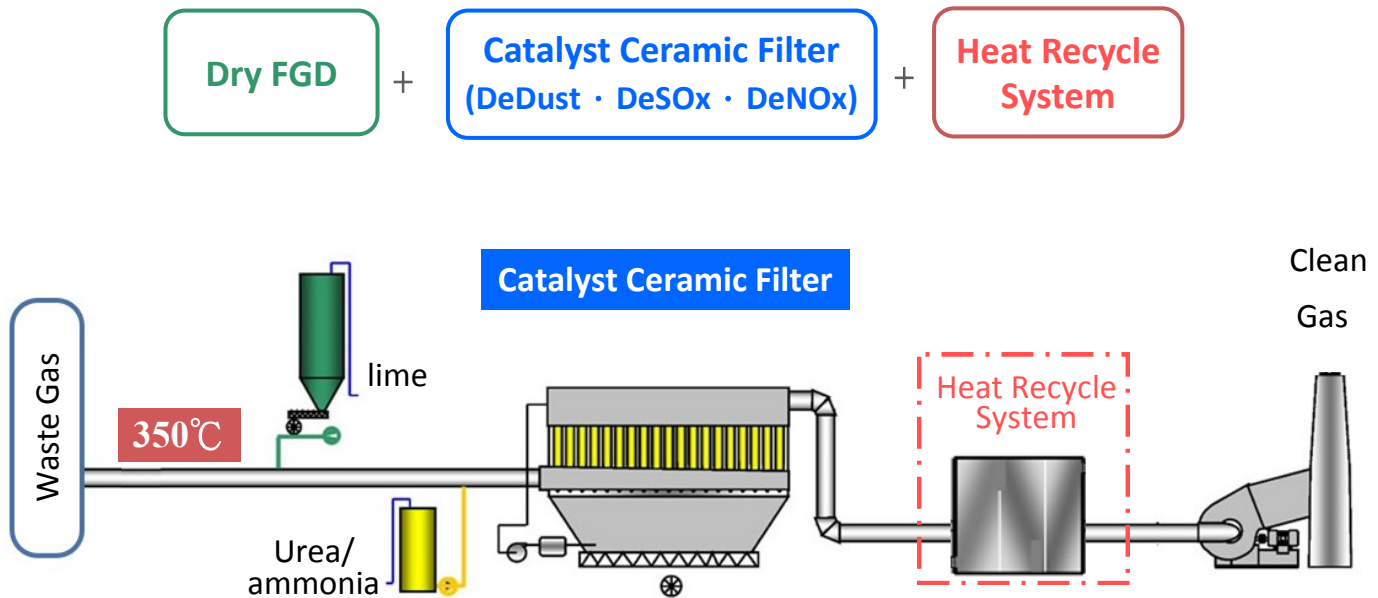
- Incinerators • Glass Furnaces
- Metallurgical • Cement • Diesel engines
- Powder generation • Waste to energy



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## Process Flow



	Catalyst Ceramic Fiber Filter	Traditional Bag Filter
<b>Dioxin Removal</b>	Directly decomposed by catalyst	Absorbed by activated carbon, and then be transferred into fly ash. The total amount does not decrease.
<b>DeDust Efficiency</b>	$\leq 5\text{mg}/\text{Nm}^3$ Usually $\leq 2\text{mg}/\text{Nm}^3$	Usually $10\sim 20\text{mg}/\text{Nm}^3$ or higher.
<b>Operation Temp.</b>	$250\sim 330^\circ\text{C}$	$140\sim 170^\circ\text{C}$
<b>Heat Resistance</b>	Max. $350^\circ\text{C}$	Max. $260^\circ\text{C}$
<b>Benefit</b>	Save the cost of activated carbon and dust solidification Improve heat recycling.	None.
<b>Service Life</b>	Up to 5 year above.	Generally 1.5~3 year.