

Electrostatic Dust Collecting MPS(Micro Pulse System) Technology for Energy Saving and Dust Control

New Technology	Electrostatic Dust Collecting MPS (Micro Pulse System) Technology for Energy Saving and Dust Control	Certificate	GT-15-00180
Model Name	-	Application Part	Atmosphere
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1. Outline

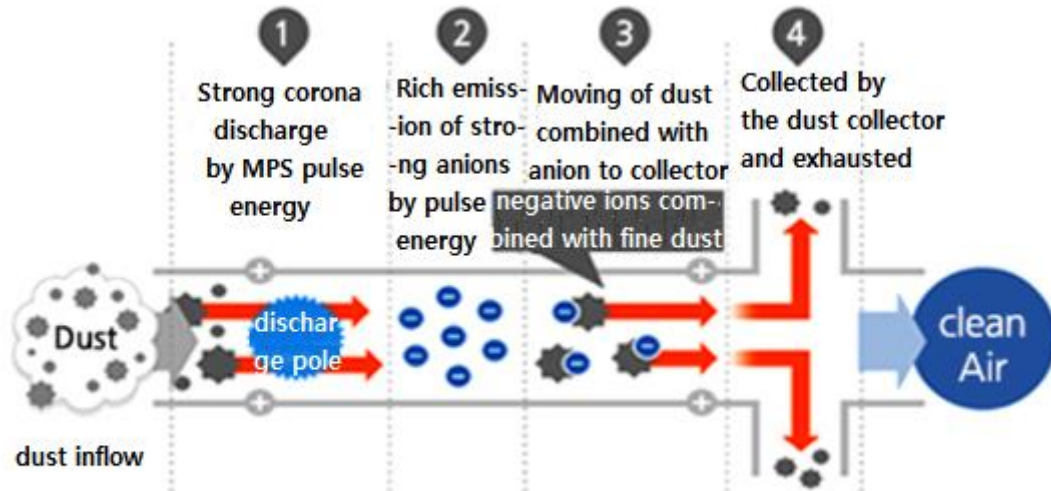
- Technology to collect and remove dust by using high voltage generated by adding micro-pulse voltage to DC voltage

2. Characteristic

- Charging the dust in the gas by generating a large amount of gas anions by corona discharge caused by a high voltage supplied to a discharge electrode and a dust collecting plate
 - Collecting dust on the dust collecting plate with electric force by electric field, and removing
 - Increasing the efficiency by charging the dust by instant strong discharge and increasing the moving speed of the dust onto the dust collecting plate
- Possible to increase the dust removal rate by more than 50% and to reduce energy consumption by 80% compared to conventional dust removal methods
 - Improving industrial site environment and fulfilling environmental regulations with minimum cost
 - Improvement of economic efficiency by reducing maintenance cost compared to conventional methods
- to continuously use conventional dust collection facilities by replacing with MPS power supply
 - Possible to improve dust collection efficiency up to maximum without additional dust

collectors

3. Introduction



[Principle of Electric Dust Collection]

[Figure1] Technological Principle

4. Application

- Field of Application: Atmosphere
- Development stage: Development completed
- Technology coverage
 - Removal of dust in the atmosphere (thermal power plants, sintering processes of iron foundry plants, and other scattering dust generating plants)