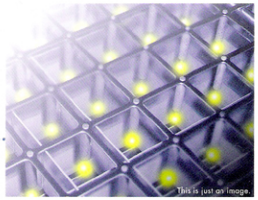
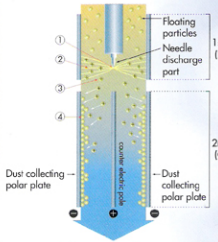
ful deodorization and

This hybrid air-purification system combines two technologies that are friendly to people and the environment: Plasma-activated Photocatalytic Deodorizing and Sterilization Technology and Needle Discharge Two-Step Charged Dust Collection Technology.

*In contrast to filter systems, the needle discharge system will not clog and can maintain high performance over a longer period of time.

*The needle discharge system enables peace of mind during operation since it is not susceptible to broken wires like systems using ionized wires discharged from extremely thin wires.





Needle Discharge Two-Step Charged Dust Collecting System

1 Corona discharge occurs in the ionization area when voltage is applied in the needle discharge.

2 Oxygen becomes a positive ion when the air is sucked through the ionization part.

3 Floating particles such as smoke or dust attach to the positive ion and gain an electric charge.

4 Positively charged floating particles are absorbed to the negatively charged dust collection polar plate in the collection area.

The Power of Ions

An ion is a charged atom that has lost an electron by discharging it into the air. Such an ion is called a 'cluster ion.' It can absorb smoke and dust and break down odor molecules. In short, the 'cluster ion' is a mechanism of cleaning contaminated air.

effectively collects more than **98%** of dust

Millions of needles catch all the dust

Needle Discharge Two-Step Charged Dust Collection System