

ABSTRACT

An ozone generation apparatus includes a cylindrical shaped first electrode, a cylindrical shaped second electrode disposed coaxially with the first electrode and disposed in the first electrode, a dielectric disposed between the first electrode and the second electrode. In the ozone generation apparatus, dry air is supplied between the first electrode and the second electrode as raw material gas, a high voltage is supplied between the first electrode and the second electrode to generate discharge, and ozone is generated by the discharge. A discharge gap length d formed by the first electrode, the second electrode, and the dielectric is set to be in a range of 0.3 to 0.5 mm. A pd product, which is a product of the discharge gap length d and a gas pressure p of the raw material gas, is in a range of 6 to 16 kPa · cm. And the discharge gap length d and the gas pressure p of the raw material gas are set to satisfy following expression.

$$(pd - 250d - 3.16)^2 + 150d \leq 12.5$$