

Title (en)
PROCESS AND APPARATUS FOR DISINFECTION-STERILIZATION WITH GASEOUS OZONE

Title (de)
VERFAHREN UND GERÄT ZUR DESINFEKTION/STERILISATION MIT GASFÖRMIGEM OZON

Title (fr)
PROCÉDÉ ET APPAREIL DE DÉSINFECTION/STÉRILISATION À L'OZONE GAZEUX

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Abstract (en)
[origin: WO2007110891A1] The present invention refers to a process of disinfection-sterilisation through exposure to gaseous ozone and to a related apparatus for the actuation of the process comprising: an electric ozone generator (3); means (4) suitable for forcing a flow of air through the ozone generator; a treatment chamber (1) having an inlet connected to the outlet of the ozone generator and a vent outlet; a first filter (2) housed in the vent outlet containing a filtering material suitable for abating and/ or reconvertng the ozone into oxygen, for venting into the atmosphere a flow of air free of ozone of flow rate substantially equal to that forced into the chamber; a conduit (5) outside the chamber, wherein at least one fan is housed through which the gaseous content inside the chamber is circulated; a second and a third filter (7,8) both containing a filtering material suitable for abating and/ or reconvertng the ozone contained in the circulating gaseous flow into oxygen, which are housed in the conduit respectively upstream and downstream of the fan; means for separately activating and stopping the electric ozone generator (3) and the circulation fan (6).

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