Claims

1. A disinfection system for disinfecting an article, the system comprising:

   a disinfection device having a circulation fan in communication with a circulation outlet, a distribution fan in communication with a distribution outlet, a vent for receiving an inflow of air to recirculate through the distribution outlet, and a register for receiving a canister of biocide;

   an aerosolization system in fluid communication with the canister, and arranged to direct a flow of biocide mist to the at least one circulation fan;

   wherein the circulation outlet is arranged to circulate the biocide mist with the mist recirculated through the vent and the circulation outlet arranged to distribute the biocide mist towards the article.

2. The disinfection system according to claim 1, further including a disinfection chamber arranged to couple to the disinfection device.

3. The disinfection system according to claim 1 or 2, further including a control system arranged to control the circulation and distribution fans, said control including fan speed and outlet direction.

4. The disinfection system according to claim 3, wherein said control system is arranged to manage a disinfection cycle including managing a disinfection cycle time.

5. The disinfection system according to claim 3 or 4, wherein said control system is arranged to manage a disinfection cycle including managing a disinfection cycle sequence of distribution fan and distribution outlet operations.

6. A method of disinfecting an article, the method comprising the steps of:

aerosolizing a biocide;

directing a flow of biocide mist to a circulation outlet;

circulating the biocide mist;

recirculating the mist through a vent, and;

distributing the recirculated biocide mist towards the article using at least one distribution outlet.