CLAIMS

1. A method for capturing an antimicrobial component of an antimicrobial solution, comprising:

filtering a solid component from an antimicrobial solution with a first filter coupled to a capture line for carrying the antimicrobial solution to the first filter;

conveying the antimicrobial solution from the first filter to a second filter;

filtering an antimicrobial component from the antimicrobial solution with the second filter;

wherein the first filter comprises a screen filter having a rotatable body, wherein the body comprises an annular wall having an inwardly facing surface defining a bore to receive the antimicrobial solution from the capture line, and

wherein the annular wall comprises:

a filter portion defining a plurality of holes along the inwardly facing surface that extend through the annular wall to filter the solid component of the antimicrobial solution when the antimicrobial solution is received thereon from the capture line, and

a band portion having a continuous surface that extends about the bore along the inwardly facing surface to receive the antimicrobial solution from the capture line onto the continuous surface before the antimicrobial solution is received along the filter portion, and wherein the capture line comprises an outlet positioned to direct the antimicrobial solution onto the continuous surface of the band at an angle between less than parallel and perpendicular to the inwardly facing surface.

2. The method of claim 1, wherein the screen filter further comprises a thread protruding from the inwardly facing surface of the annular wall into the bore, and wherein the thread helically extends along the inwardly facing surface between a first end and a second end of the body.

3. The method of claim 2, wherein the thread extends along the filter portion and the continuous surface.

4. The method of any one of claims 1 to 3, further comprising the filtered solid component from the annular wall with a cleaner associated with the screen filter.

5. The method of claim 4, wherein the cleaner comprises a spray bar including one or more fluid ports positioned to direct fluid toward an outwardly facing surface of the annular wall.

6. The method of claim 5, wherein the fluid ports are positioned outside the bore.

7. The method of any one of claims 1 to 6, wherein the second filter comprises at least two filter units connected by intermediate filter lines, wherein each filter unit comprises a container retaining a filter material comprising activated carbon, wherein the filter units are aligned in series and are configured to filter the antimicrobial component from the antimicrobial solution, and wherein the antimicrobial component comprises a quaternary ammonium compound.

8. The method of claim 7, wherein the antimicrobial component is selected from the group consisting of alkylpyridinium chloride and cetylpyridinium chloride.

9. The method of claim 7 or claim 8, wherein at least one of the filter units includes a header comprising a body having an upstream inlet and a plurality of downstream fluid ports positioned along a plurality of arms.

10. The method of claim 9, wherein the body comprises at least four arms arranged in an "X" configuration.

11. The method of claim 10, wherein the body includes at least two arms, each defining at least twenty fluid ports.

12. The method of claim 11, wherein the fluid ports are positioned on at least two sides of each arm.

13. The method of claim 11 or claim 12, wherein the fluid ports define cross-sections between 0.125 to 0.250 inches.

14. The method of any one of claims 9 to 13, wherein the fluid ports are dimensioned to restrict, direct, spray, or focus the fluid exiting from the fluid ports.

15. The method of any one of claims 9 to 14, wherein the header is movable or rotatable to increase dispersion of the fluid exiting from the fluid ports.

16. The method of any one of claims 7 to 15, wherein at least one of the containers comprises an inner surface formed of a plastic.

17. The method of any one of claims 1 to 16, wherein the solid component is filtered from the antimicrobial solution by the first filter based on a property or characteristic of the solid component selected from the group consisting of size, charge, viscosity, consistency, molecular structure, molecular interactions, residues, forces, bonding, and diffusion.

18. The method of any one of claims 1 to 17, wherein the solid component is selected from the group consisting of large particles, solids, solids associated with liquids, viscous liquids, fat, gelatinous material and debris.

19. The method of any one of claims 1 to 18, wherein the antimicrobial solution is conveyed by gravity from the first filter to the second filter.

20. The method of any one of claims 1 to 18, wherein the antimicrobial solution is pumped from the first filter to the second filter.