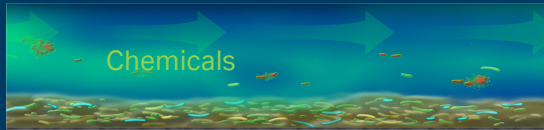


Compatibility with Systemic Treatments

Problem

Systemic disinfectants are frequently used as a supporting control measure in water distribution systems¹. Point-of-Use Water Filters should therefore be compatible with and their performance not affected by commonly used systemic disinfectants, like chlorine, monochloramine, and chlorine dioxide.



Systemic chemical disinfection attacks the biofilm



Biofilm becomes partly destroyed



Biofilm becomes partly destroyed, cells in VBNC stage may survive

Solution

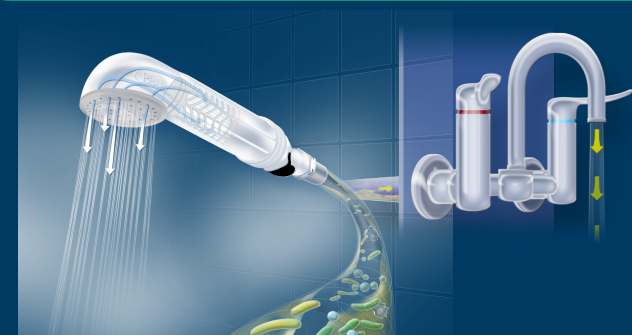
Pall Point-of-Use Water Filters are compatible with a wide range of chemicals commonly used for systemic disinfection.



Proof

Our Filters can be used with the following treatments:

1. Active chlorine:
 - continuous treatment: < 4 ppm at ambient temperature
 - shock treatment: 100 ppm active chlorine for 1 hour at ambient temperature
2. Monochloramine:
 - continuous treatment: 2.2 ppm at 38–60 °C
3. Peracetic acid:
 - shock treatment: 1000 ppm at 60 °C for 2 hours at ambient temperature
4. pH >12:
 - shock treatment: for up 1 h at ambient temperature
5. Chlorine dioxide:
 - continuous treatment: < 1 ppm at ambient temperature
 - shock treatment: 100 ppm for 12 hours at ambient temperature



¹ Healthcare Water Management Team Bulletin, Synergistic Water Hygiene Control Measures: A Multi-Barrier Approach, Literature Ref.180604.1WGL