



Filtration Applications for the Life Science Industry

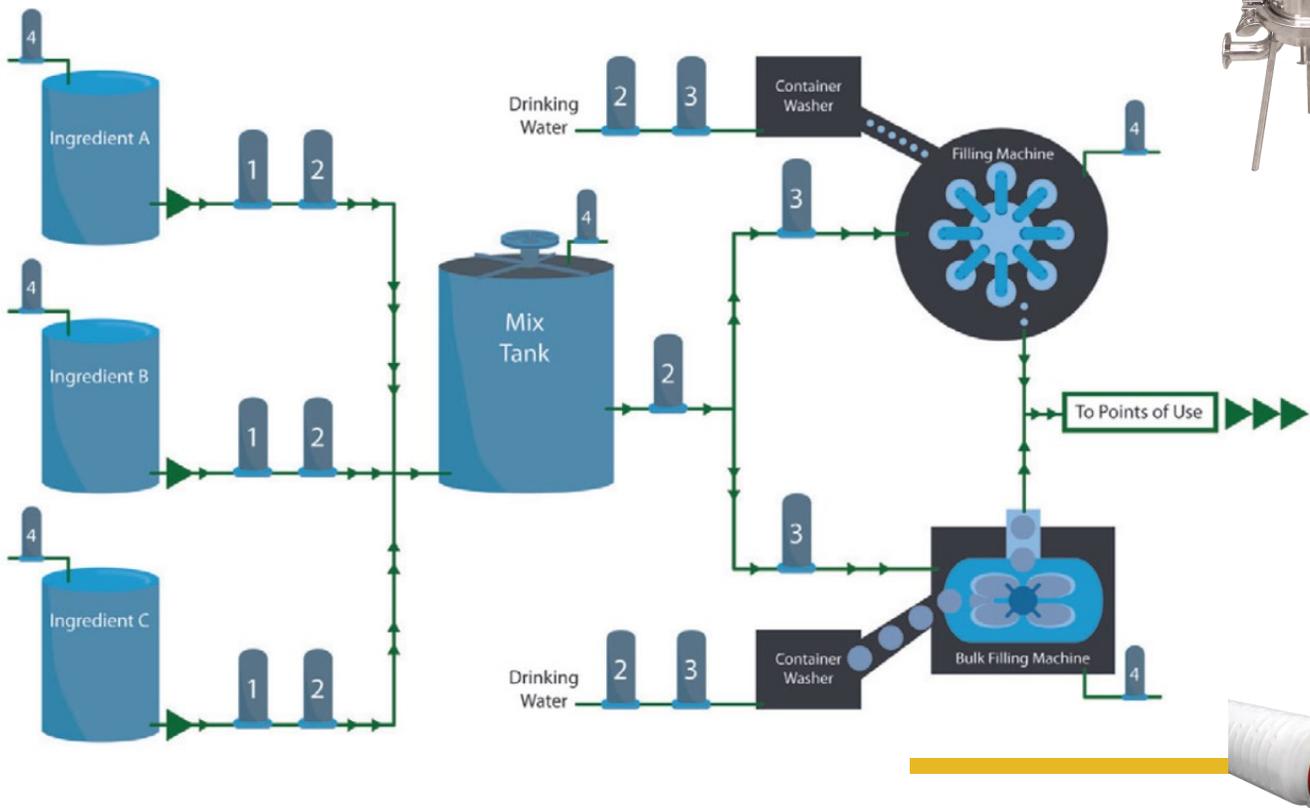


PHARMACEUTICAL & BIOTECHNOLOGY

Filtration plays a vital role in the Pharmaceutical and Biotech industry to ensure all products are safe and effective. The removal of harmful contaminants is critical at every stage in the manufacturing process. Classic Filtration is the most efficient method for removing and preventing product contamination.

From product development through design, validation, and production, C.C. Day Company works to provide innovative and cost-saving solutions. With our extensive experience in filtration systems and technologies, we are here to solve your most challenging filtration applications.

FILTRATION OF ACTIVE PHARMACEUTICAL INGREDIENTS



1 Prefiltration

High contaminant-holding capacity filters are used to capture foreign particles and undissolved solids as a prefilter to expensive downstream filters.

4 Tank Vent & Process Gas

Vent filters are used to prevent atmospheric contaminants from coming in contact with the product, and sterile venting if required.

2 Bioburden Reduction

Bacteria and virus specific filters are used to prevent premature fouling of sterilizing filters downstream due to excess bacteria and foreign particulate.

5 Endotoxin Removal

Positively-charged filter media is used to capture negatively-charged endotoxins originating from bacterial cell walls.

3 Sterilization

Final Product Filtration is designed to remove any remaining bacteria and contaminants. Filters are integrity tested and validated as sterilizing grade.

6 Trap Filtration

Trap filters are used to catch resin, carbon, and other water treatment media that may have been released in process.

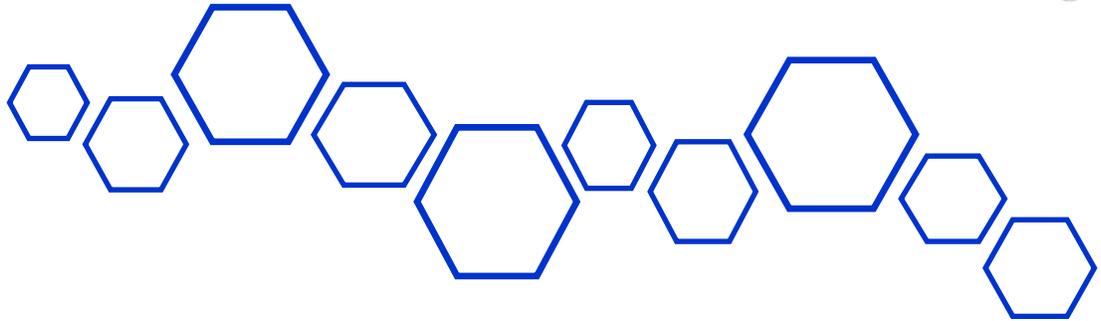
ULTRAPURE WATER SYSTEMS

Biopharmaceutical research and production requires access to large volumes of very high quality water. Generally this involves a De-Ionizing (DI) or Reverse-Osmosis (RO) type system.

We supply Absolute-Rated Depth Filters (ADF) to remove large particles and protect costly RO membranes and DI systems. Similarly, we provide Hydrophilic Polyethersulfone Membrane Filters for use after DI/RO to guarantee the water is free of any particles, viruses, and bacteria.



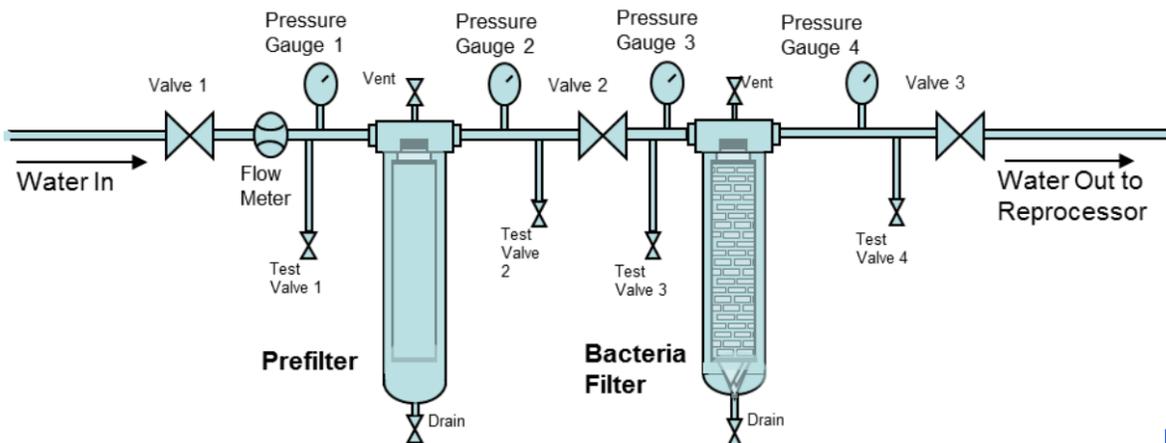
Additionally, if a DI/RO system is not required or utilized, we can build an Ultra Pure Water System incorporating High Performance UltraViolet (UV) sterilization followed by microfiltration and ultrafiltration to kill and remove endotoxins and bacteria.



MEDICAL DEVICES



Patients and caregivers rely on their medical equipment to perform reliably and safely every time. Medical device designers and manufacturers have trusted C.C. Day Company to deliver solutions to protect their sensitive equipment for over 60 years.



Endoscope Reprocessor

C.C. Day Company, with over 60 years of experience, has developed extensive knowledge of filtration applications in a wide range of industries.

Food & Beverage
Water
Inks & Paints
Chemical
Life Science

Fuels & Refining
Electronics
Power Generation
Oil & Gas
Coatings & Adhesives



To answer more questions regarding your filtration applications please give us a call at 763-541-9711.



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