

Sterilizing grade capsule filter

KC Series

Eternalwater KC series--of capsule filter products cover a variety of specifications and materials and can be applied to bioprocess filtration steps. They meet the requirements of applications from small-scale experiments to large-scale production, with superior filtration performance and reliable sterilization protection.

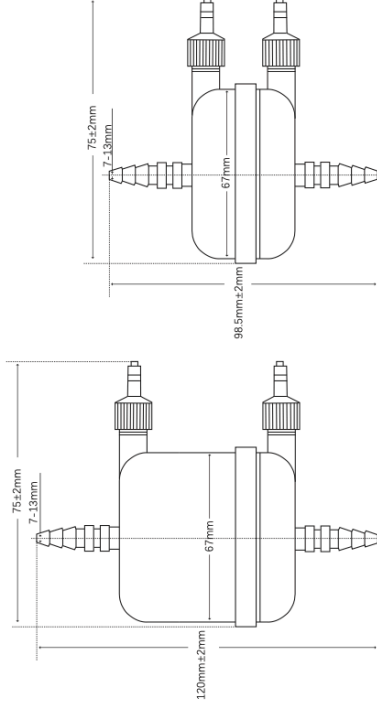


Typical Applications

- Bacterial removal filtration for large and small volume infusions
- Bacterial removal filtration for Vaccines, Biologicals and Antibiotics
- Bacterial removal filtration for serum and plasma separation
- Bacterial removal filtration for cell culture media
- Bacterial removal filtration for diagnostic reagents and preparations containing proteins, vitamins and preservatives
- Disposable stock solution sterile filtration
- Buffer solution filtration

Product Specification

| | | |
|---------------------------------------|--|--------------------|
| Nominal size | 0.5inch | 1inch |
| Outer diameter | 67mm | |
| Total length | 98.5mm | 120mm |
| Filtration area | 200cm ² | 400cm ² |
| Housing material | Polypropylene | |
| Center pole material | Polypropylene | |
| Support layer material | Polypropylene | |
| Vent O-ring Material | Silicone | |
| Vent /Drain Outlet Diameter | Φ 4mm | |
| Maximum Operating Pressure Difference | 4 bar (58 psi) at 25°C | |
| Housing pressure | 5.5 bar (80 psi) at 25°C | |
| Sterilization | Can be sterilized by Gamma radiation up to 45KGy Can be sterilized by high-pressure steam at 126°C for 30 minutes three times (in-line steam sterilization is not available) | |
| Bacterial Endotoxin | According to the bacterial endotoxin test method stipulated in the general rule (1143) of the Chinese Pharmacopoeia 2020 edition. As determined by Limulus reagent (LAL), the aqueous extract content is < 0.25 EU/ml | |
| Microbial Challenge Test | >10 ⁷ cfu/cm ² ; according to ASTM® test method passed Pseudomonas diminuta (B. diminuta) (ATCC® 19146) | |
| Biosecurity | All materials meet USP <88> Reaction Test Standards for Plastic Materials Class VI-70°C | |
| TOC/Conductivity | TOC value ≤ 0.5mg/L, conductivity value ≤ 1.3us/cm. According to the Chinese Pharmacopoeia 2020 Edition, the general rule (0682) the determination method of total organic carbon in pharmaceutical water and the general rule (0681) the determination method of the conductivity of pharmaceutical water | |
| Cleanliness | According to the light inspection method stipulated in the general rules (0904) of the Chinese Pharmacopoeia 2020 edition, no fibers and other visible foreign matter were detected in the filtrate | |
| Integrity Test | Bubble point, diffusion flow, water intrusion; please consult the sales engineer of Eternalwater Company for detailed parameters | |



Order Information

KC 1 2 3 4 5 6

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|---|--------------------|----------------------------|--------------------|
| Block 1 | Membrane Material | Block 2 | Removal Rating |
| S=Hydrophilic PES | ST=Hydrophobic PES | 005=0.05µm | 010=0.10µm |
| T=Hydrophobic PTFE | 020=0.20µm | 045=0.45µm | 065=0.65µm |
| LT=Hydrophilic PTFE | V=Hydrophobic PVDF | 080=0.80µm | 100=1.0µm |
| LV=Hydrophilic PVDF | M=MCE | 120=1.20µm | 020010=0.20+0.10µm |
| N=Nylon | P=PP | 020020=0.22+0.20µm | 045020=0.45+0.20µm |
| | | 065020=0.65+0.20µm | 065045=0.65+0.45µm |
| | | 080020=0.80+0.20µm | 120020=1.20+0.20µm |
| Block 3 | Length | Block 4 | End Cap Type |
| 05=0.5inch | 1=1inch | H=Φ7-.13mm hose connection | |
| Block 5 | Sterilized Form | | |
| G=Resistance to Gamma Radiation Sterilization | Z=Autoclave only | | |
| W=Sterile type | | | |
| Block 6 | Packing | | |
| 1=1 Pcs/Box | 12=12 Pcs/Box | | |