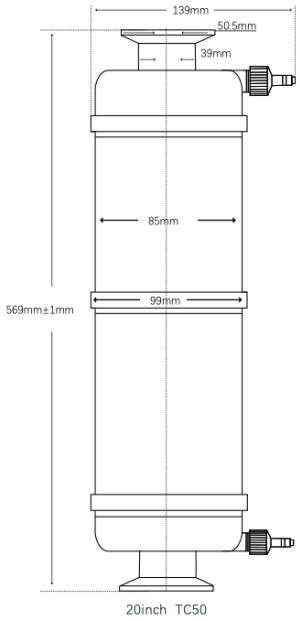
Sterilizing grade capsule filter KB Series

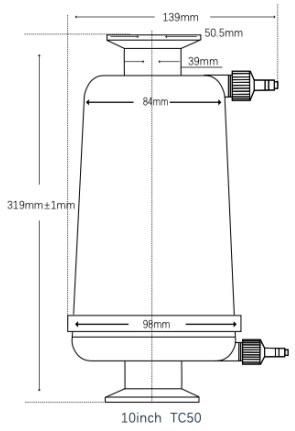
Eternalwater KB series--capsule filter products cover various specifications and materials, which can be applied in biological process steps. Satisfying the application from small experiment to large-scale production, it has excellent filtration performance and reliable sterilization guarantee.

Typical Applications

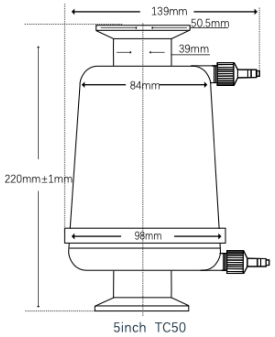
- Bacterial removal filtration for large and small volume infusions
- Bacterial removal filtration for Vaccines, Biologicals and Antibiotics
- Bacterial removal filtration for serum and plasma separation
- Bacterial removal filtration for cell culture media
- Bacterial removal filtration for diagnostic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



20inch TC50



10inch TC50



5inch TC50

Product Specification

Nominal size	20inch	10inch	5inch
Outer diameter	85mm	84mm	84mm
Total length	569mm	319mm	220mm
Filtration area	12000cm²	6000cm²	3000cm²
Housing material	Polypropylene		
Center pole material	Polypropylene		
Support layer material	Polypropylene		
Vent O-ring Material	Silicone		
Vent /Drain Outlet Diameter:	Φ 6mm		
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	>10^7cuf/cm² ; 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

KB 1 2 3 4 5 6

Block 1

Membrane Material
S=Hydrophilic PES
ST=Hydrophobic PES
T=Hydrophobic PTFE
LT=Hydrophilic PTFE
V=Hydrophobic PVDF
LV=Hydrophilic PVDF
M=MCE
N=Nylon
P=PP

Block 2

Removal Rating
005=0.05μm
010=0.10μm
020=0.20μm
045=0.45μm
065=0.65μm
080=0.80μm
100=1.00μm
120=1.20μm
020010=0.20+0.10μm
020020=0.20+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
5=5inch
10=10inch
20=20inch

Block 4

End Cap Type
T=TC50

Block 5

Sterilized Form
G=Resistance to Gamma Radiation Sterilization
Z=Autoclave only
W=Sterile type

Block 6

Packing
1=1 Pcs/Box