

Pollution proof control

A. Ultraviolet sterilization

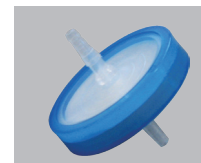
- The ultraviolet lamp is placed at the back top of the chamber. It can sterilize the chamber regularly. It kills chamber recycle air bacteria and float bacteria from water tray or slop water in the bottom, effectively prevent pollution during cell culture period.

B. HEPA efficient filters

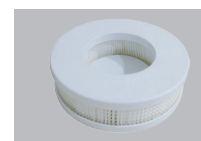
- The CO₂ gas quality is a important factor to judge cell culture in the CO₂ incubator. HEPA high efficient filters can filter bacteria and dust in the air. It eliminates cross contamination from outer air to incubator chamber air and keep the chamber inside aseptic. Close the door for 5 min, inside air can fast resume to hundred grade clean. HEPA air filter is easy to disassemble without any special instruments.

C. Micro biological HEPA filter

- CO₂ access port equips micro biological HEPA filter, it can filters diameter $\geq 0.3\mu\text{m}$ Particles like CO₂ gas bacteria and dust, the efficient reaches to 99.99%.



Microbe filter



HEPA efficient filter

Cycle fan speed adjustable automatically

- Cycle fan speed can be adjusted automatically. When chamber temp. is stable, the fan speed will be lower down, the speed will be adjusted to a suitable speed that the cell can growth. It avoids the fast fan speed that evaporating the samples.

CO₂ inlet control system

- We supply pressure release valve together with the equipment. It can control the pressure stable.
- The system has pressure protection function, it prevents over pressure or low pressure to the pipes.

Safe Functions

- High and low temp. and over temp. alarm
- Door temp. sensor failure alarm
- CO₂ condensation too high or too low alarm
- Door open too long alarm
- Chamber sensor failure alarm
- Over temp sensor failure alarm
- Independent temp. limiter alarm
- Disinfection and sterilization status reminder

Technical parameter

Model	BIO-170RWP	BIO-240RWP
Electrical requirement	AC220V/50Hz	
Input power	700W	1000W
Heating power	Water jacke	
Temp. control range	RT+5 - 50°C	
Work environment temp	+5 - 30°C	
Temp. accuracy	±0.1°C	
CO ₂ control range	0 - 20%	
CO ₂ control accuracy	±0.1% (IR sensor)	
CO ₂ restore time	(Door open 30s, recovery to 5%) ≤3min	
Temp. restore time	(Door open 30s, recovery to 37°C) ≤ 8min	
Related humidity	Nature vaporate > 95% (Can equip with related humidity digital display)	
Volume	170L	240L
Chamber size W×D×H(mm)	530×460×720	600×520×780
Overall size W×D×H(mm)	684×700×960	754×760×1020
Standard shelves qty	3 pcs	
Sterilization	UV sterilization+HEPA sterilization	

Note: All parameters are measured at 25°C