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Haier Biomedical Intelligent Protection of Life Science

Product Features

- Uniform and stable temperature
- Precise CO₂ concentration
- Quick environment recovery system in the incubator
- 90°C moist heat sterilization technology

CO2 Incubator HCP-168E



Integrated Liner
Integral design, large arc design, easy to clean

CO2 Incubator HCP-168E



Bottom Reservoir Humidification

- •Reservoir humidification method, no water tray, easy to clean, avoid breeding bacteria
- •Large evaporation area and fast humidity recovery

Haier Biomedical

CO2 Incubator HCP-168E

Precise and Accurate Temperature Control



Controls the temperature precisely, within ±0.05°C, with six-sided heating based on the fuzzy PID control principle, to provide a stable temperature to ensure the normal growth of cells throughout their life cycle.



Precise CO₂ Concentration Using New IR Sensor Control Technology

Haier Biomedical's new IR Sensor technology uses NDIR measurement principles and withstands high temperature of 100°C. The silicon MEMS transmitter can carry out more than 300 dry heat sterilization cycles to extend the service life to 15 years. Built-in temperature and humidity compensation technology reduces the impact of changes of humidity and temperature without the need for calibration after the high temperature sterilization. Five points calibration yields a higher measuring accuracy, sensitivity with less drift (less than 3% within 2 years).



The equipment is tested by Haier in a controlled environment. Haier does not guarantee that the results of field tests under different conditions will be consistent. The test model is HCP-168E

Fast Environment Recovery for Optimal Cell Growth

Adopting active air flow control technology, based on the fuzzy PID control principle, the parameters ca without overshoot. After opening the door for 30 seconds, the temperature and CO₂ concentration can restored within 4 minutes. Even if multiple users share a CO2 incubator and frequently open and close the stability and uniformity of the incubator can be ensured.



Temperature recovery curve

(door open for 30s)

90°C Moist Heat Sterilization Technology

Effective sterilization of microorganisms including bacillus and spores with strong resistance, at 90°C u heat, without the need for consumables. Simply press the "sterilization button", to activate and comple sterilization process automatically in 14 hours.

Delivers sterility level within the chamber of all surfaces to meet WS/T367-2012 standards. All components are sterilized during the process, there is no need to dissemble internal components (i sensors) and decontaminate separately, thus avoiding secondary pollution.



Sterilization Temperature Profile

Forty-seven points were tested in the working chamber, including glass inner doors and partitions. All regions reached 90°C and maintained for 9 hours.

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Reservoir Humidification Without Condensation

The working chamber is plasma electro polished, stamped stainless steel with wide-arc, laser welded corners. Bracketless shelving design ensures that it is quick and easy to clean.





Innovative Design with Attention to Detail



Safe anti-slip design of pull-out shelves.



Data traceable for 15 years with large storage capacity and data exportable through USB.

Active heat pipe condensation technology with condensate water directly return to the reservoir, to ensure no condensation.



Optional Accessories

Name	
Oxygen module	Zirconia O₂ se
3 Inner door	Reduce the temperature, humidit and minir
6 Inner door	Reduce the temperature, humidit and minir
Water Tray	Provide
Roller base	Easy to mo
Stacking frame	Stacking
HEPA filter	Ensure the cleanliness of th
Pressure reducing valve	Su
Partition	Inc

Specifications

Model	Volume (L)	Exterior Dimensions (W*D*H)(mm)	Interior Dimensions (W*D*H)(mm)	Shelf Dimensions (W*D*H)(mm)	Standard Configuration of Shelves No./Maximum	
HCP-168	E 170	714*812*887	490*560*650	473/434	3/11	

Temperature	Humidity Control	Temperature	Temperature	Temperature	Temperature	CO2 Sensor	CO2	CO2
Control Mode	Range at 37°C	Sensor	Control Range	Fluctuation	Uniformity		Control Range	Control Accuracy
Air jacket	High humidity≥90% Low humidity≥80%	PT1000	Ambient temperature +3℃~55℃	±0.1℃	±0.3℃	Infrared (IR) sensor	0~20%	0.1%

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Material Description

nsor, control accuracy: 0.1%; control range: 1-21%

ty and carbon dioxide concentration in the box after opening the door, mize the mutual influence of multiple cultures

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s different bottom humidification methods

ve, prevent the ground bacteria contamination

the two incubators makes the fixation firmer

e box, suitable for users who open and close the door frequently

itable for users with cylinder gas supply

rease the number of samples cultured

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