Life Science Instrument



CO₂ Incubator

Ideal Culture Conditions for your success









Accurate, reliable and intuitive

Air-jacketed CO₂ Incubator

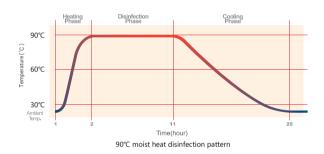
Introductions

CO2 incubators are widely used in scientific research to grow and maintain cell cultures. A Heal Force CO2 incubator provides you with unsurpassed natural simulation to ensure optimum growth conditions for your culture at all time. That's why they become the first choice of researchers in fields of application include tissue engineering, in vitro fertilization, neuroscience, cancer research and other mammalian cell research.



Safe for cultivation

Cell cultivation in particular is a highly sensitive process in which bacteria, viruses, fungal spores and mycoplasmas can destroy valuable cultures or distort test results, causing more work. Heal Force solves this problem using a unique design and effective method to ensure sterile conditions.



90°C moist heat disinfection (HF90 & HF240)

HF90 and HF240 are equipped with 90°C moist heat disinfection system. The validated overnight sterilization cycle ensures reliable destruction of germs that could interfere with your work and requires no extra work, such as removal of interior fittings. Mycoplasma is 100% eliminated in a routine disinfection cycle.

Ultraviolet disinfection (HF151UV & HF212UV)

A long-life ultraviolet lamp is equipped at the inner back of HF151UV and HF212UV to sterilize chamber air and water in the reservoir to maintain contamination-free conditions within the chamber. To take maximum effect of disinfection, the wavelength of UV light is kept at 254nm.



UV lamp



Coved corners

Easy-to-clean design

The cleaning process is significantly simplified by Heal Force's unique, seamless, deep-drawn interior chamber, which reduces any areas where contamination could accumulate. Heal Force incubators offer the best usable-space-to-volume ratio due to the total absence of any additional fittings in the interior chamber

Inlet filter for CO2 supply

All gas injection lines are filtered via HEPA filter to remove impurities and contaminants before being injected into the chamber. The HEPA filter is able to filter particles larger than 0.3µm at 99.998%.

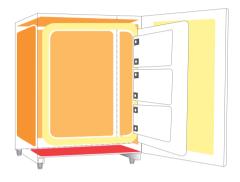


Absolutely condensation-free, even at high air humidity level

The high air humidity prevents cell cultures from drying out and also keeps the osmolarity constant in the culture medium. With our CO2 incubators, you can work with air humidity up to 95% while the interal walls remain completely dry (In order to prevent contamination, however, no condensation must occur). The patented tilted water reservoir system keeps the air humidity absolutely stable.



Water reservior



Optimum temperature control

A reliable air jacketed heating system combined with PT1000 temperature sensors ensures high precision with homogenous heat distribution in the interior.

Outstanding dynamics ensure short recovery times and balance out any fluctuations caused by door open for Heal Force CO₂ incubators. This provide reliable protection at any time, particularly for sensitive cultures.

- The main heater provides precise temperature control.

 The bottom heater warms the distilled water and ensures chamber humidity.

 The outer door heater prevents condensation on the inner door and facilitates quick temperature recovery after door openings.

Divided, inner glass door

Three inner glass doors (HF90) maintains stable climatic conditions, minimizes any changes to the humidity, heat and gas concentration, shortens recovery times significantly and also further reduces the risk of contamination. Six half-size sealed inner glass doors and shelves are optional for model HF240. This makes it possible for several users to work with the same equipment



HF90 with 3 inner glass doors (standard)



HF240 with 6 half-size inner glass doors and shelves (optional)

Auto-start function

The auto-start function, which considerably simplifies the equipment's operation, contains the incubator's automatic start-up and the measuring system's calibration. The thermal conductivity CO2 sensor has its baseline automatically reset without manual adjustment. The incubator can be loaded immediately after the start-up routine is completed.



Auto-start function

Specifications

"910×763×795(mm) 35.8×30.0×34.1(inch)" "600×588×600(mm) 23.6×23.1×23.6(inch)" 212L/7.5cu.ft. 95kg/209lbs one inner door standard Microprocessor PT1000 ±0.3 C ±0.1 C
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±0.1°C
0.1 MPa
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0. 1 IVII G
Microprocessor
Thermal conductivity
0 to 20%
±0.1%
≥95%
6L
590×510(mm)
23.2×20.1(inch)
3,12
Optional
·
Standard
UV lamp
700W
000) (/50) - (-t)
220V/50Hz (standard),
110V/60Hz (Standard),
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HF90 HF210V HF151UV HF151UV