

Water Jacketed CO₂ Incubator HBSCO₂-185W

Water Jacketed

The large-size Heal Force HBSCO₂185W incubator incorporates a water-jacketed system. Because of the heat retention characteristics of water, there is no sudden temperature change in the event of an unexpected power failure. A stable temperature environment is ensured.

HEPA Filter

HBSCO₂185W applies long-term effectiveness of the HEPA filter to protect cultures. The filter is very efficient at trapping particulates larger than 0.3 µm at 99.97%. The HEPA filter system runs continuously and disinfects the entire chamber every 60 seconds. With the HEPA filter, the air quality achieves Class 100 clean-room levels within 5 minutes following door opening.



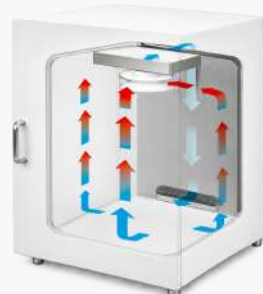
HEPA Filter

Airflow System

The optimized airflow system ensures that the temperature and CO₂ concentration remain stable and uniform within the chamber.

AUTO-ZERO/AUTO-START

HBSCO₂185W combines precise CO₂ control with a choice of TC or IR sensors. The microprocessor automatically calibrates "Zero" with room air as a reference every 24 hours. Auto-start for TC type automatically resets the sensor's baseline without manual adjustment, maintaining accurate CO₂ control without worrying about CO₂ drift.



HEPA Filter and
Air Flow Pattern

Automatic Control Door Heater

The outer door incorporates a door heater interlocked with the surrounding temperature monitoring system. This prevents temperature differences between the chamber and inner door, thereby preventing condensation.

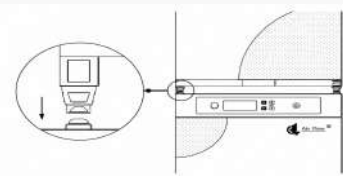
Humidity Display and Alarming System

HBSCO₂185W provides a high-humidity environment and displays relative humidity (RH) on the panel, readable in 0.1% increments. It also includes a low-RH programmable alarm to alert the user when water needs to be added.



Space Utility

The stackable design saves space. Two or three units can be stacked according to available space and usage.



Automatic Gas Cylinder Switchover System



This system automatically switches from the primary to the secondary gas cylinder when the CO₂ gas level does not change while the injection valve is open.



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CONTACT US



sales@helixbiosciences.com



+91-11-41613622, 1800 890 4669



PLOT NO. 24, SECOND FLOOR, G BLOCK COMMUNITY CENTER,
VIKAS PURI, NEW DELHI-110018



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Specifications

MODAL	HBSCO ₂ -185W
Heating method	Water Jacket
Temp. control system	Microprocessor
Temp. sensor	PT1000
Temp. range	temperature 5°C to 55°C
Temp. uniformity	±0.2°C at 37°C
Temp. stability	±0.1°C
Inlet pressure	0.1 MPa
CO ₂ control system	Microprocessor
CO ₂ sensor	Thermal conductivity/Infrared
CO ₂ range	0 to 20%
CO ₂ stability	±0.1%
Exterior dimensions (W×D×H)	655×656×1030 mm (25.8×25.8×40.5 inch)
Interior dimensions (W×D×H)	544×504×681 mm (21.4×19.8×26.8 inch)
Interior volume	185 L / 6.5 cu.ft.
Water jacket volume	43.5 L / 11.54 cu.ft.
Net weight	110 kg / 242 lbs
Interior	Type 304, mirror finish stainless steel
Exterior	Cold-rolled steel, power coated
Inner door	One inner door standard
Humidifying system	Humidity pan
Humidifying sensor	Standard
Relative humidity	≥95% at 37°C
Display	In 0.1% increments
Water reservoir volume	3 L
Shelf dimensions (W×D)	466×440 mm (18.3×17.3 inch)
Shelf construction	Type 304, mirror finish, stainless steel
Standard, Maximum	3, 11
Access port	Standard
Air filter	0.3 μm, Efficiency: 99.998% (for CO ₂)
Remote alarm contacts	Standard
De-contamination	HEPA filter system
Rated power	430 W
Power supply	220V/50Hz (standard), 110V/60Hz (Optional)
Alarm system	Power interruption, High/low temperature, Deviation of CO ₂ , RH, Door ajar, Independent overheat protection
Data output	RS232



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