

RWD

D165HT CO₂ incubator

Providing a more suitable culture environment for cells

180°C dry-heat sterilization effectively kills fungal molds, bacterial spores, and other biological contaminants..

Hypoxia control function, enhancing the flexibility of cell culture.

More efficient reservoir humidification system.

Optional 3 segmented inner doors reduce the impact of opening the door on environmental stability.

Compliant with FDA 21CFR PART 11.

Remote monitoring provides the real-time data of the incubator and receive alarm information on the APP or PC.



D165HT CO₂ incubator precisely controls the levels of CO₂, O₂, and N₂ by regulating the input of CO₂ and N₂, capable of simulating the hypoxic environment of specific cell tissues, enhancing the biological relevance, better simulating the in vivo cellular environment, and improving cell growth performance. It plays a key role in the fields of stem cell research, embryonic research, and tumor drug research.



Product Features

High Precise parameters controlling for cell growth environment

- Air jacket heating method working with Pt1000 temperature sensor allows for stable and uniform temperature control.
- 190°C resistance IR sensor provides consistent and precise monitoring of CO₂ concentration changes.
- The airflow technology provide faster recovery and uniformity in parameters after door opening.

More Efficient sterilization and anti-contamination function

- 180°C high temperature dry heat sterilization assures elimination of fungi, bacteria, spores and other biological microorganisms.
- HEPA filter and active fan system are designed to maintain ISO-5 class air cleanliness in the chamber.
- Mirror polished 304 stainless steel inner chamber with easy-to-clean coved corners.

Flexible hypoxic control for a wider range of applications

- The oxygen control function module simulates the body cell environment better.
- The zirconia sensor provides accurate and stable O₂ concentration control with long service life.
- With segmented inner doors, accessing separate sections of the incubator is convenient, minimizing recovery time and contamination risk.

Non-condensing reservoirs are designed for faster humidity recovery

- The 3.8 L direct heated reservoir provides a stable and fast recovery of higher relative humidity, and save space for using.
- Water level is continuously monitored and displayed on the touchscreen to ensure that water is added in time.
- Low humidity mode can be selected to actively control no condensation water and prevent the contamination.

Remote monitoring by APP to receive alarm response timely

- Timely send alarm information notifications to user APP.
- Automatic data record of 1 month and core parameters curve display.
- Electronic signatures and user management in accordance with FDA 21CFR PART11.



Technical Parameters

Temperature	Control & Range	±0.1°C @ 37°C, 3°C above ambient to 55°C
	Uniformity	±0.25°C @37°C
	Heating Method	Air jacket
	Alarm Setting	Customized, Upper limit:(T+0.1)~(T+5.0); Lower limit:(T-0.1)~(T-5.0)
Sterilization Method	Sterilization Method	180°C dry heat sterilization
	Sterilization period	within 12 hours
CO ₂ concentration	±0.1%@5%, 0-20%	±0.1%@5%, 0 - 20%
	Sensor	190°C resistant IR sensor
	Inlet Pressure	0.08 - 0.1 Mpa
	Alarm Setting	Customized, Upper limit:(T+0.1)~(T+1.0); Lower limit: (T-0.1)~(T-1.0)
O ₂ concentration	Control & Range	±0.1%, 0.1% - 21% (hypoxic)
	Sensor	zirconia sensor
	Inlet Pressure	0.08-0.1 Mpa
	Alarm Setting	Customized, Upper limit:(T+0.1)~(T+1.0); Lower limit:(T-0.1)~(T-1.0)
Humidity	RH	≥93%
	Humidity reservoir	3.8 L
Size & Weight	Interior Volume	170 L
	Interior Dimensions	47.0(W) × 57.0(D) × 60.0(H) cm
	Water reservoir	33(W) x41.5(D) X6.9(H) cm
	Exterior Dimensions	69.0(W) × 87.0(D) × 93.0(H) cm
	Net Weight	110 Kg
Shelves number	standard/maximum	3/11

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