

## Product Description

Ultrassay CO<sub>2</sub> Incubator is designed to protect valuable samples while optimizing cell growth, also delivers proven reliability, outstanding contamination control, and innovative features to achieve optimal growing conditions and experimental reproducibility for your most demanding cell cultures and lab requirement.

Model	MCP-170 (TC/IR/Tri)
Controller	7" inch Touch Screen
Power Supply	220V, 50/60Hz
Power Consumption	1000W
Heating Mode	Direct Heat & Air Jacketed PID Controller
Temperature Range	3°C above ambient to 55°C
Ambient Temperature	18~34°C
Temp. Accuracy	< ±0.1°C
Temp. Uniformity	≤ ±0.3°C
CO <sub>2</sub> Control Range	0~20%
CO <sub>2</sub> Control Accuracy	±0.1%
CO <sub>2</sub> Recover Time	≤5 mins
O <sub>2</sub> Concentration Range	1~20.7% (Optional tri-gas type)
O <sub>2</sub> Sensor	Zirconia
O <sub>2</sub> Accuracy	±1%
Temp. Recovery	O <sub>2</sub> @1.0%: 24 mins O <sub>2</sub> @5.0%: 10 mins
Humidity Control	91% @ low rH mode, 94%@ high rH mode
Volume	170L
Inner Dimension	490.5x560x620.5mm
Overall Dimension	670x825x920mm
Shelf	3pcs (Standard)
Sterilization	180°C dry heating
Filtration System	0.2um filter, HEPA filter

\*Ultrassay BioTech Co., Ltd. reserves the right of final interpretation of different specifications.

## Ultrassay BioTech Co., Ltd.

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# CO<sub>2</sub> Incubator

*Designed for sensitive cells*



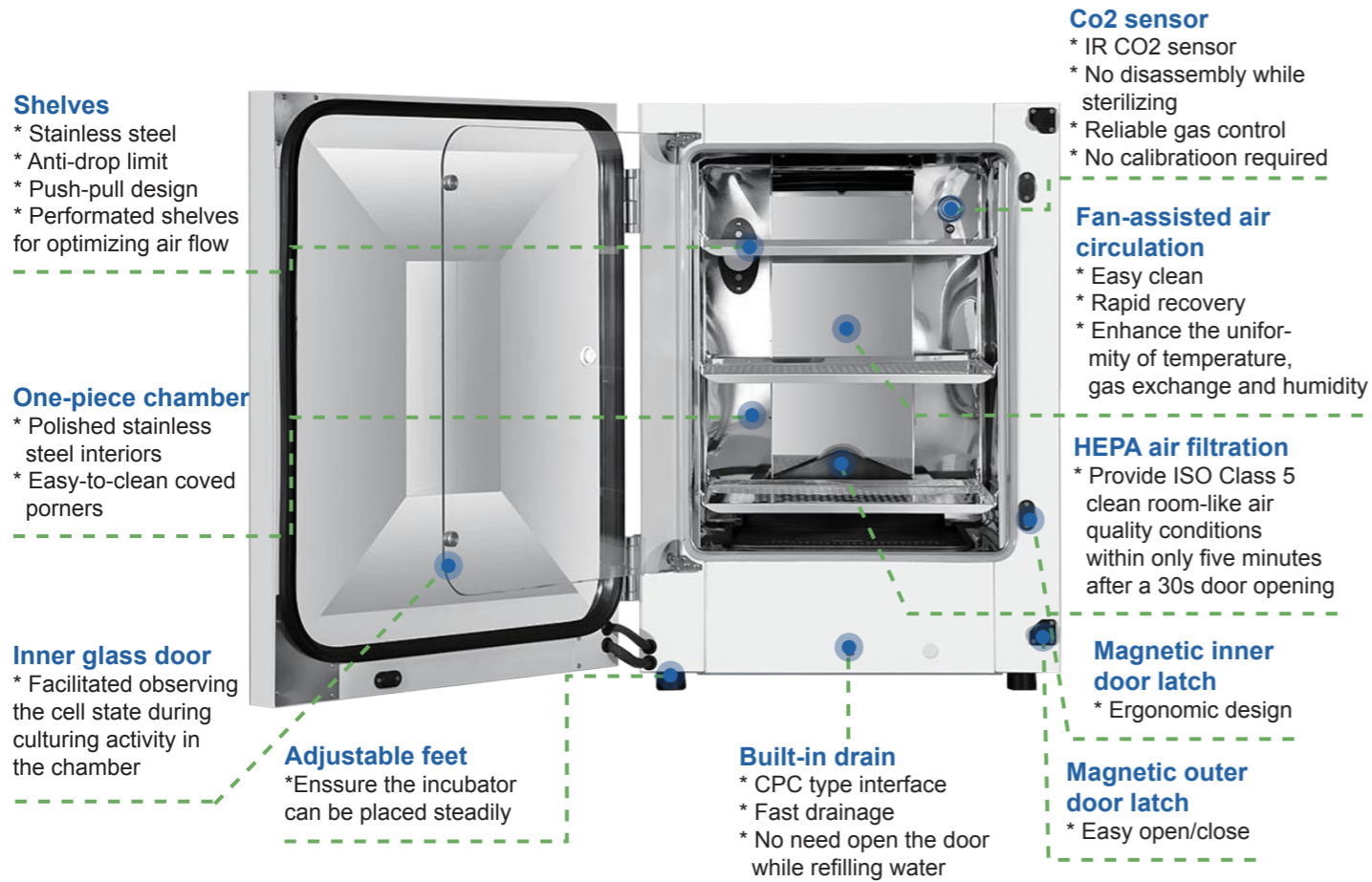
*Optimized cell growth through advanced design and technology*

- **180°C dry heating sterilization**
- **Optional tri-gas**
- **Top IR sensor**
- **LCD touch screen**

ULTRASSAY BIOTECH CO., LTD.



## ULTRASSAY CO2 incubators are designed to protect valuable samples while optimizing cell growth.

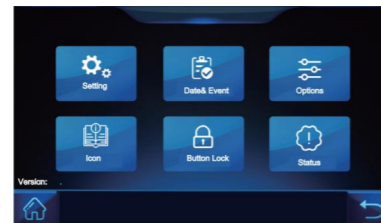


### ◆ Friendly Operation Interface

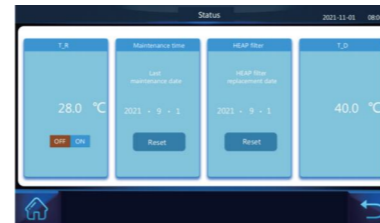
The LCD touch screen is responsive, easy to operate accurate and informative, also offer CO2 adjustment, sterilization guidance, sterilization working progress, CO2 historical curve, traceable events, clear operation which help user operate CO2 incubator easy and simple.



Main interface



Menu interface



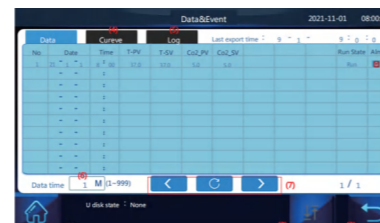
Status information



Sterilization interface



Historical curves



Operation logs

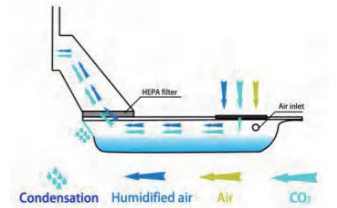
### ◆ Thrive Active Airflow

Automatic air volume regulation more efficient and accurate control of temperature, humidity, CO2 concentration, and cleanliness.



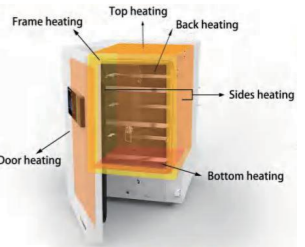
### ◆ Advance Design

The humidification and inflation design of the independent area brings humidified air and CO2 into the chamber through the circulation system, which can effectively prevent the partial humidity and gas concentration from being too high. advance control technology of condensate water control can effectively reduce the condensate water in the chamber.



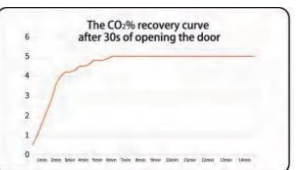
### ◆ Direct Heat & Air-Jacketed

Rapid temperature recovery in the chamber and reduce ambient temperature interface, 9 heating units in 4 temperature control zones are intelligently controlled by microprocessors to ensure temperature uniformity and minimum fluctuation in the chamber.



### ◆ Rapid Recovery Of CO2 Without Overshoot

Accurate & fast-response CO2 sensor, advanced microprocessor controlled intake valve and independently controlled heating system to achieve no overshoot, ensuring rapid gas circulation after opening and closing the door, making the CO2 concentration recovered quickly and remained constant.



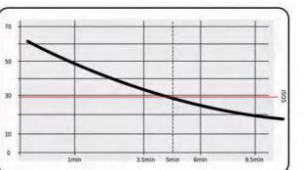
### ◆ Complete Contamination Control

All gases entering the incubator are filtered through a 0.2µm filter to remove airborne biological and particulate contaminants, also the gas filter is easily replaceable on site.



### ◆ HEPA Air Filtration For Air Purity

In-chamber HEPA airflow system filters entire chamber with ISO Class 5 (Class 100) clean room air quality within five minutes after door opening. The particle retention efficiency of the HEPA filter is up 99.995%.



### ◆ Cyclic High Temperature Sterilization

180°C dry heat cycle sterilization, the complete process of sterilization takes 12 hours only, no need to take our any accessories during sterilization except HEPA.

