

RWD

D180 CO₂ incubator

Provide A More Suitable Environment for Your Cells



D180 CO₂ incubator provides a more suitable culture environment for cells by controlling temperature, CO₂ concentration precisely and by maintaining a high relative humidity (rH). It is an indispensable cell culture tool in the fields of stem cell research, immunology research, neurobiology research and cancer research.



D180 CO₂ incubator

CONTRIBUTE WISDOM AND STRENGTH TO THE IMPROVEMENT OF QUALITY

Intelligent touchscreen controller

Automatic data record and curve display

Door handle design

Heated inner door

Coved corners design

Removable shelves

Fan-assisted directed airflow

In-Chamber HEPA

Polished stainless steel interior containing copper

Stainless steel water pond

140°C dry heat sterilization



Product Features

CONTRIBUTE WISDOM AND STRENGTH TO THE IMPROVEMENT OF QUALITY

Stable environment for cell culture

- ④ Accurate IR sensor monitors the CO₂ concentration change
- ④ Six-sided air jacket heating system ensures fast heating
- ④ Optional humidity probe to monitor real-time humidity changes

Contamination control of inner chamber

- ④ High efficient sterilization by 140°C dry heat
- ④ In-chamber HEPA to filter the microorganism
- ④ Easy cleaning with coved corners and removable shelves design

Intelligent operation

- ④ 7-inch touchscreen controller for real-time display
- ④ Automatic data record of 7 days curve display
- ④ External USB port for fast and convenient data export

Multiple alarm system

- ④ Internal and external door open overtime alarm
- ④ Abnormal inner cavity core parameters alarm
- ④ High temperature sterilization over temperature alarm

Convenient and flexible design

- ④ Handle design enables a comfortable door opening
- ④ Optional bracket with casters for convenient moving of the chamber
- ④ Less consumables in cavity for easy cleaning

Technical Parameters

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Temperature	Control & Range	$\pm 0.1^{\circ}\text{C}$ @ 37°C , 5°C above ambient to 50°C
	Heating Method	Air jacket
	Uniformity	$\pm 0.3^{\circ}\text{C}$ @ 37°C
	Alarm Setting	Customized, Upper limit: $(T+0.1) \sim (T+5.0)$; Lower limit: $(T-0.1) \sim (T-5.0)$
	Sensor	Pt1000 Platinum thermistor
	Controller	PID
	Readability & Setability	0.1°C
	Sterilization Method	140°C dry heat sterilization
CO ₂ Concentration	Control & Range	$\pm 0.1\%$ @5%, 0-20%
	Sensor	Heat-resistant infrared (IR) sensor
	Inlet Pressure	1.0 bar (recommended)
	Uniformity	$\pm 0.3\%$
	Readability & Setability	0.10%
	Alarm Setting	Customized, Upper limit: $(C+0.1) \sim (C+1.0)$; Lower limit: $(C-0.1) \sim (C-1.0)$
Humidity	Water Pond Volume	~ 3.8 L
	Display	1% RH
Shelves	Dimensions	48.7×46.1 cm
	Surface Area	224.5 cm ²
	Number (Standard & Max)	4 ; 17
Size & Weight	Interior Volume	188 L
	Interior Dimensions	$51.0(\text{W}) \times 54.7(\text{D}) \times 67.5(\text{H})$ cm
	Exterior Dimensions	$69.5(\text{W}) \times 67.0(\text{D}) \times 97.0(\text{H})$ cm
	Net Weight	110 kg



® Stainless steel liner& water pond



® High efficiency filtration system



D180 Ordering Information

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Device Options	Order no.	Description
* CO ₂ Incubator with Humidity monitoring	D180	volume 188L; 140°C sterilization; humidity sensor; voltage 200~240VAC, 50Hz, 5A
CO ₂ Incubator with Humidity monitoring	D181	volume 188L; 140°C sterilization; humidity sensor; voltage 100~120VAC, 60Hz, 10A
CO ₂ Incubator without Humidity monitoring	D180	volume 188L; 140°C sterilization; without humidity sensor; voltage 200~240VAC, 50Hz, 5A
CO ₂ Incubator without Humidity monitoring	D181	volume 188L; 140°C sterilization; without humidity sensor; voltage 100~120VAC, 60Hz, 10A

Accessories

Device Options	Order no.	Description
CO ₂ gas inlet pipe package	D180-F01	Connect cylinders to equipment
Horizontal shelves with bracket	D180-F02	Carrier for culture dishes
Water Pond	D180-F03	Holding water to increase humidity
HEPA filter	D180-F04	5.5 inch HEPA filter for inner air filtration
High efficiency filter	D180-F05	For air filtration at sampling port
Stacking racks	D180-F06	For stacking and fixing of equipment
Stacking Stand with castors	D180-F07	For supporting equipment and movement
CO ₂ pressure reducing valve	D180-F08	For reducing the output pressure of CO ₂ cylinders

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