

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

Fan-assisted directed airflow

In-Chamber HEPA

Heated inner door

Polished stainless steel interior containing copper

Coved corners design

Stainless steel water pond

Removable shelves

140°C dry heat sterilization



Product Features

CONTRIBUTE WISDOM AND STRENGTH TO THE IMPROVEMENT OF QUALITY

Stable environment for cell culture

- ② Accurate IR sensor monitors the CO₂ concentration change
- ② Six-sided air jacket heating system ensures fast heating
- ② Optional humidity probe to monitor real-time humidity changes

Contamination control of inner chamber

- ② High efficient sterilization by 140°C dry heat
- ② In-chamber HEPA to filter the microorganism
- ② Easy cleaning with coved corners and removable shelves design

Intelligent operation

- ② 7-inch touchscreen controller for real-time display
- ② Automatic data record of 7 days curve display
- ② External USB port for fast and convenient data export

Multiple alarm system

- ② Internal and external door open overtime alarm
- ② Abnormal inner cavity core parameters alarm
- ② High temperature sterilization over temperature alarm

Convenient and flexible design

- ② Handle design enables a comfortable door opening
- ② Optional bracket with casters for convenient moving of the chamber
- ② Less consumables in cavity for easy cleaning

Technical Parameters

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Temperature	Control & Range	±0.1°C@ 37°C, 5°C above ambient to 50°C
	Heating Method	Air jacket
	Uniformity	±0.3°C @ 37°C
	Alarm Setting	Customized, Upper limit: (T+0.1) ~ (T+5.0); Lower limit: (T-0.1) ~ (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	±0.1%@5%, 0-20%
	Sensor	Heat-resistant infrared (IR) sensor
	Inlet Pressure	1.0 bar (recommended)
	Uniformity	±0.3%
	Readability & Setability	0.10%
	Alarm Setting	Customized, Upper limit: (C+0.1) ~ (C+1.0); Lower limit: (C-0.1) ~ (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(W)×54.7(D)×67.5(H) cm
	Exterior Dimensions	69.5(W)×67.0(D)×97.0(H) cm
	Net Weight	110 kg



④ Stainless steel liner& water pond



④ 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 setrilization; humidity sensor; voltage 200~240VAC, 50Hz, 5A
CO ₂ Incubator with Humidity monitoring	D181	volume 188L; 140°C setrilization; humidity sensor; voltage 100~120VAC, 60Hz, 10A
CO ₂ Incubator without Humidity monitoring	D180	volume 188L; 140°C setrilization; without humidity sensor; voltage 200~240VAC, 50Hz, 5A
CO ₂ Incubator without Humidity monitoring	D181	volume 188L; 140°C setrilization; 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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