RWD 2020

PRODUCT CATALOG

For Cell & Molecular Biology Research

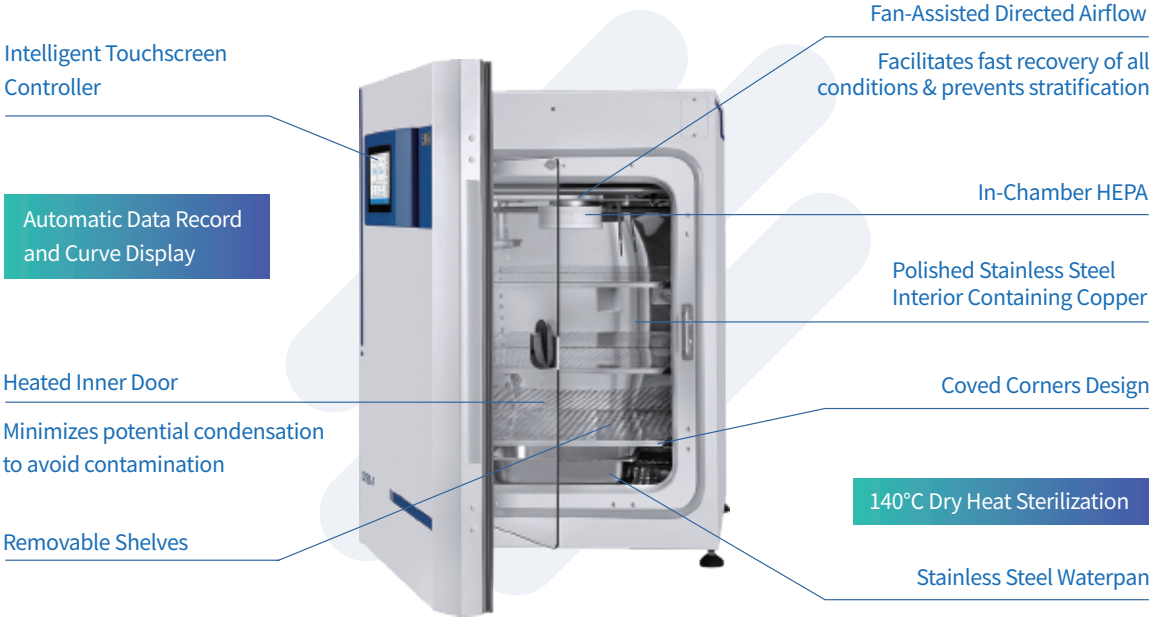
CO_2 Incubators

Provide a more suitable cell culture environment

D180-P is a well-designed air-jacketed CO2 incubator for primary cells, stem cells, and all kinds of cell lines or tissues.

It can provide a more suitable culture environment for cells by controlling temperature, CO2 concentration precisely. The built-in 140°C dry-heat sterilization program helps to prevent bacterial contamination. Also, all the data and interactions are visible on the 7-inch touchscreen.

With reliable temperature stability, purity environment, and operation simplicity, D180-P will be an indispensable device in the fields of cancer research, stem cell research, immunology research, pharmaceutical research, and neurobiology research.



Structure of D180-P

Product characteristics

Purity

Minimize the risk of microorganisms contamination with the 140°C dry-heat sterilization program, which can effectively maintain the purity of the inner atmosphere.

The combination of HEPA (High Efficiency Particulate Air filter) with the active air circulation system makes the inner atmosphere more uniformity as well as cleaner. The HEPA filters air in the chamber every minute, which will reach the Class 100 level within 5 minutes.

The interior is made of copper-containing stainless steel with round corner design greatly resist bacteria as well as cleaning simplicity.

Stability

Six-sided air jacket heating method significantly reduces the time to target temperature.

The non-dispersive infrared sensor for CO2 detection is quite accurate with low drift rate compared with the TC sensor. It can also tolerate high temperature up to 140 °C, therefore there is no need to remove the sensor during sterilization.

Intelligence

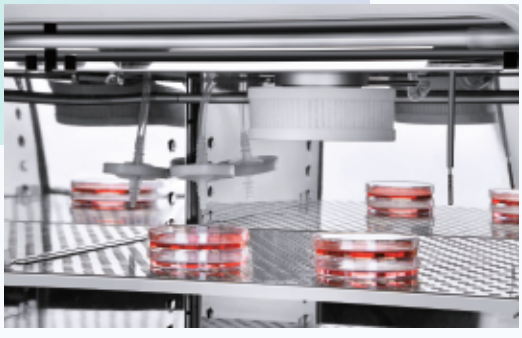
All the data and interactions including temperature, CO2 concentration, operation log as well as alarm records are visible on the 7-inch touchscreen.

The changes inside the incubator within 7 days could be recorded automatedly and displayed in the curve. Data older than 7 days up to 6 months can be export through a USB drive.

Safety

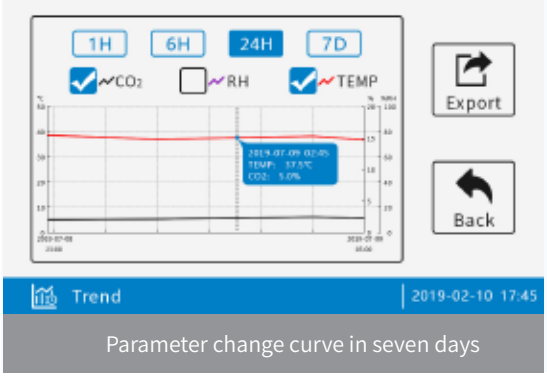
Customizable alarm settings allow users to modify upper and lower alarm limits.

Multiple system alarms can keep the machine from abnormal operation, so that precious samples and operators are protected well.

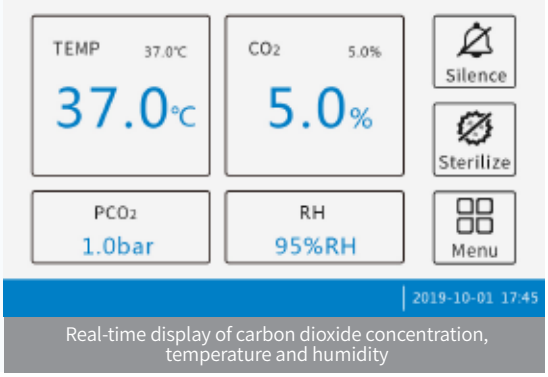


High Efficiency Particulate Air Filter System

Stainless Steel Waterpan



Parameter change curve in seven days



Real-time display of carbon dioxide concentration, temperature and humidity

Technical Parameters

Temperature	Control & Range	±0.1°C, 5°C above ambient to 50°C
	Heating Method	Air jacket
	Uniformity	±0.3°C @ 37°C
	Alarm Setting	±5°C
	Sensor	Platinum thermistor
	Controller	PID
	Readability & Stability	0.1°C
	Sterilization Method	140°C dry heat sterilization
CO_2 Concentration	Control & Range	Better than ±0.1% ; 0-20%
	Sensor	Heat-resistant infrared (IR) sensor
	Inlet Pressure	1.0 bar (recommended)
	Uniformity	±0.3%
	Readability & Stability	0.10%
	Alarm Setting	±1%
Humidity	Humidity Pan Volume	~3.8 L
	Display	1% RH
Shelves	Dimensions	47.0×47.0 cm
	Surface Area (Standard & Max)	214. 6 cm^2 ; 220.7 cm^2
	Number (Standard & Max)	3 ; 16
Size & Weight	Interior Volume	175 L
	Interior Dimensions	51.0 (W) ×54.7 (D) ×67.5 (H) cm
	Exterior Dimensions	66.0 (W) ×67.0 (D) ×97.0 (H) cm
	Net Weight	110 kg (242.5 lbs)

Order Information

Cat No.	Product Description
D180-P	Air-jacketed CO2 incubator (Equipped with humidity display and high temperature sterilization function), 220V-240V VAC 50/60 Hz
D181-P	Air-jacketed CO2 incubator (Equipped with humidity display and high temperature sterilization function), 120V-120V VAC 50/60 Hz (50pcs)

Automated Cell Counters

Accurate, Simple, Efficient

RWD C-100 automated cell counter is a reliable cell counting devices with its highly intelligent analysis software and excellent microscopy optics structure. Under autocouting mode, it can accurately identify the live cells, dead cells and the ones with specific fluorescence in a few seconds, which may liberate researchers from eavy work of daily cell counting

Product Characteristics

Accurate

- Vision-based analysis technology, C100 can automatically identify, label and calculate live/dead cells.
- The unique cluster recognition algorithm contributes to recognize aggregated cells clearly to minimize the resulting error.
- All the parameters including focus, brightness, cell size range, roundness range, etc. are
- adjustable to enable more accurate counting. They also can be saved as preset programs to facilitate one-click operation.

Simple

- Perform operations via the touch screen, and the software of C100 is developed based on practicality with the characteristics of intelligence and friendly interaction.
- Auto-focus & auto-exposure mode can be used in all programs and there is also quick-count
- mode that can be used after setting focus, greatly reducing time wastage. All the parameters can be re-gated at any time during one counting.
- The automatic data record system can save more than 1000 counting reports, including cell concentration, images and statistical data. Various result formats are available, such as JPG, PDF, CSV, PNG, etc.

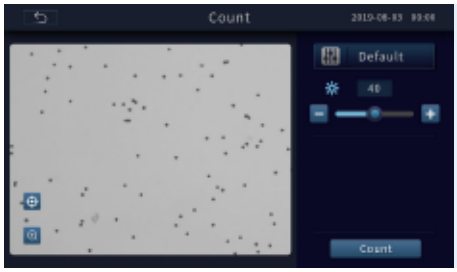
Multiple applications

- With great scalability, C100 can be upgraded to a counting system with fluorescence capabilities.
- Dual-channel fluorescence superimposed results help analyze complex cell samples.

Accessories and consumables

Disposable Cell Counting Slide

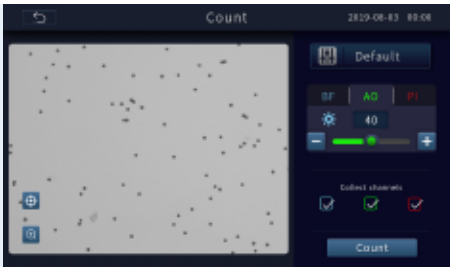
Fluorescent column



- Clear imaging system

- Intuitive result display

- Report output function



- Custom profiles

Technical Parameters

Parameters	Cat No.
Amplification Factor	2.5×, 5 mega-pixel
Focus Method	Manual focusing & Autofocusing (less than 3s)
Counting Area	2.15 mm×1.62 mm
Fluorescence Application	PI(Ex:540/25nm; Em:575/lp nm),
	DAPI(Ex:375/28nm; Em:460/50nm),
	AO/GFP(Ex:480/30nm; Em:535/40nm)
Cell Type	Cell lines, stem cells, primary cells
Cell Size Range	4-60 μm (Optimal: 7-60 μm)
Cell Concentration Range	10^4- 10^7cells/mL
Cell Counting Time	Less than 20s
Historical Data Storage	1000 counting reports and images at most
Languages	Chinese and English
Dimensions (W×D×H)	212 mm(W)* 264 mm(H)* 165 mm (D)
Weight	~3.2 kg

Order Information

Cat No.	Product Description
C100	Automated Cell Counter
FL Cube-01	FL Cube (DAPI), Ex:375/28nm; Em:460/50nm
FL Cube-02	FL Cube (AO/GFP), Ex:480/30nm; Em:535/40nm
FL Cube-03	FL Cube (PI), Ex:540/25nm; Em:575/lp nm
DS-50	Disposable Slide (50 pcs/box)

Microcentrifuges

M1324R Microcentrifuges

Simplify the centrifugation

The M1324 can work stably and quietly at the maximum speed of 15000rpm. Even at the highest speed, the refrigerated version M1324R will still make sure the stable temperature centrifugation of samples at -10°C~40°C.

Optional with different rotors to meet various centrifugal needs (PCR tubes, 1.5/2 mL EP tubes, etc.). The touchscreen operation equipped with user-friendly software design allows users to customize preset programs, which is convenient for one-click retrieval and simplifies the centrifugation.

Product characteristics

Stable

- Max. speed: 15,000 rpm (21,130×g).
- Compact footprint.
- Less vibration and low noise, reducing the impact on samples and users.
- Multiple alarms to ensure the safety of experimenters.

Durable

- Aerospace-grade aluminum alloy rotor is durable and autoclavable.
- It can automatically stand by without using for 8 hours, saving energy and prolonging the service life.

Simple

- Combination of buttons and touch interaction.
- Instantaneous centrifugal button design, press and hold to centrifuge according to the required speed.

Efficient

- Motor self-locking lid design can keep at any position and automatic opening after centrifugation.
- 12 programs of commonly used parameters can be preset and chosen with just one click.
- Screen lock effectively prevent from being changed by accident.
- The pre-cooling mode only takes 8 minutes cooling down to 4°C.
- Optional timing mode starts timing when the speed reaches the set value, making the centrifugation reproducible.

Front page displays

Preset parameters

Fast pre-cooling

Self-locking lid

M-F24G

Combination of buttons and touch interaction

Small, quiet and durable

Technical Parameters

Parameters	M1324R Microcentrifuges	M1324 Microcentrifuge
Temperature range	-10 °C to +40 °C	Room temperature
Max. speed	15000 rpm	
Max. capacity	2 mLx24	
Display	Touch screen	
Rotors	M-F24G (Aerosol-tight Lid, 24 x 1.5/2 mL EP tube); M-F24 (24 x 1.5/2 mL EP tube); M-F4PCR (4 x PCR tube); M-F18Kit (18 x spin column)	

Order Information

Cat No.	Product description
M1324	Microcentrifuge (Rotor with Aerosol-tight Lid, M-F24G)
M1324R	Microcentrifuge (Refrigerated, Rotor with Aerosol-tight Lid, M-F24G)

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