

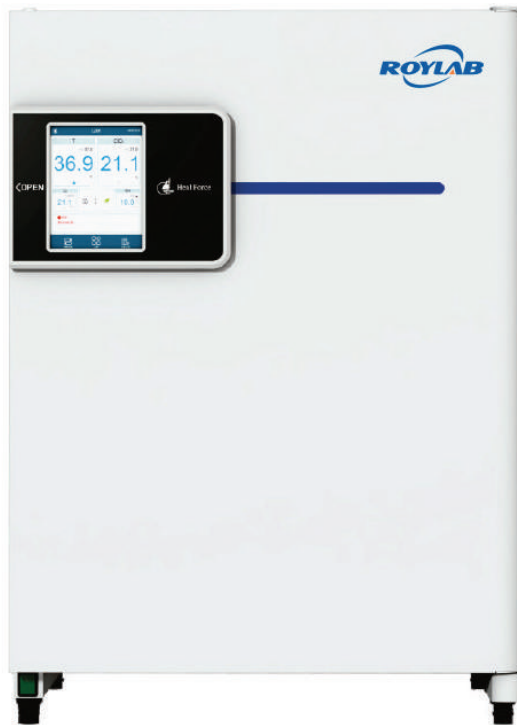


CO₂ Incubator

Air-Jacketed:

- 90°C Moist Heat Disinfection
- UV lamp sterilization
- 180°C Heat Sterilisation

Water-Jacketed



CO₂ Incubator

CO₂ incubators are widely used in scientific research to grow and maintain cell cultures. CO₂ incubator provides you with unsurpassed natural simulation to ensure optimum growth conditions for your culture at all time. That's why they become the first choice of researchers in fields of application include tissue engineering, in vitro fertilization, neuroscience, cancer research and other mammalian cell research.



Product features



90°C moist heat disinfection
(RLCO290 & RLCO2240)*



Easy-to-clean design



Condensation-free,
even at high air humidity level



Divided, inner glass door



Ultraviolet disinfection
(RLCO2151UV & RLCO2212UV)*



Inlet filter for CO₂ supply



Optimum temperature control



Auto-start function

LCD touch screen

- Easy to observe and operate

Access port

- Monitor the temperature, RH and CO₂ concentration data in the chamber

Integrated humidity pan

- Built-in design 3L storage capacity



Inner glass door

- Convenient to observe the cell state during culturing activity in the chamber

HEPA air filtration

- Provide ISO Class 5 clean room-like air quality conditions within only five minutes after a 30-second door opening

Shelves

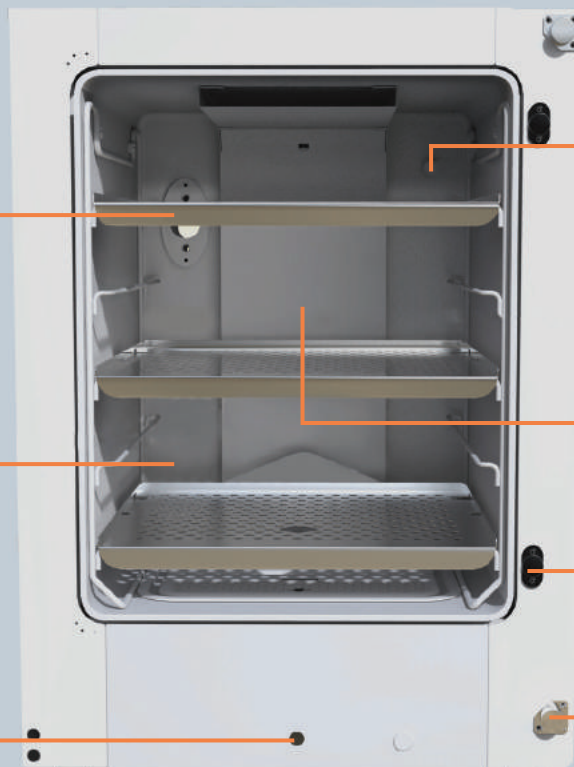
- Stainless steel
- Anti-drop limit
- Push-pull design
- Perforated shelves for optimizing air flow

One-piece chamber

- Polished stainless steel interiors
- Easy-to-clean coved corners

Built-in drain

- CPC type interface
- Fast drainage
- No need open the door while refilling water



Quick response CO₂ Sensor

- IR CO₂ sensor
- No disassembly while sterilizing
- Reliable gas control
- No calibration required

Fan-assisted air circulation

- Easy clean
- Rapid recovery
- Enhance the uniformity of temperature, gas exchange and humidity

Magnetic inner door latch

- Ergonomic Design

Magnetic outer door latch

- Easy open/close

Adjustable feet

- Ensure the incubator can be placed steadily

Model	RLCO290	RLCO2240	RLCO2151UV	RLCO2212UV	RLC02180	RLC02160W
Construction						
Exterior dimensions (WxDxH)	637 x 762 x 909 (mm) 25.1 x 30.0 x 35.8 (inch)	780 x 820 x 944 (mm) 30.7 x 32.3 x 37.2 (inch)	615 x 768 x 865 (mm) 24.2 x 30.2 x 34.1 (inch)	910 x 763 x 795 (mm) 35.8 x 30.0 x 34.1 (inch)	655 x 656 x 1030 (mm) 25.8 x 25.8 x 40.5 (inch)	655 x 656 x 1030 (mm) 25.8 x 25.8 x 40.5 (inch)
Interior dimensions (WxDxH)	470 x 530 x 607 (mm) 18.5 x 20.8 x 23.9 (inch)	607 x 583 x 670 (mm) 23.9 x 22.9 x 26.4 (inch)	470 x 530 x 607 (mm) 18.5 x 20.9 x 23.9 (inch)	600 x 588 x 600 (mm) 23.6 x 23.1 x 23.6 (inch)	544 x 504 x 681 (mm) 21.4 x 19.8 x 26.8 (inch)	544 x 504 x 681 (mm) 21.4 x 19.8 x 26.8 (inch)
Interior Volume	151L/5.3cu.ft.	240L/8.5cu.ft.	151L/5.3cu.ft.	212L/7.5cu.ft.	185L/6.5cu.ft.	185L/6.5cu.ft.
Net Weight	80kg/176lbs.	80kg/176lbs.	75kg/165lbs.	95kg/209lbs	43.5L/1.54cu.ft	43.5L/1.54cu.ft
Interior	Type 304, mirror finish, stainless steel					
Exterior	Electrolyzed galvanization steel, powder coated					Cold-rolled steel, power coated
Inner door	3 inner doors standard	6 mini inner doors optional one inner door standard		one inner door standard	one inner door standard	one inner door standard

Temperature

Heating method	Direct Heat & Air Jacket (DHA)					Water Jacket
Temp. control system	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Temp. sensor	PT1000	PT1000	PT1000	PT1000	PT1000	PT1000
Temp. range		5°C above ambient temperature to 50°C			Ambient +2 to 55	5°C above ambient temperature to 55°C
Temp. uniformity	±0.2°C	±0.2°C	±0.2°C	±0.3°C	±0.2°C	±0.2°C
Temp. stability	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C	±0.1°C

CO₂

Inlet pressure	0.1 Mpa	0.1 Mpa	0.1 Mpa	0.1 Mpa	0.1	0.1 Mpa
CO ₂ control system	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
CO ₂ sensor	Thermal conductivity	Thermal conductivity	Thermal conductivity	Thermal conductivity	Thermal conductivity/ Infrared	Thermal conductivity/ Infrared
CO ₂ range	0 to 20%	0 to 20%	0 to 20%	0 to 20%	0 to 20%	0 to 20%
CO ₂ stability	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%	±0.1%

Humidity

Humidifying system	Special designed water reservoir					Humidity pan
Relative humidity	≥95%	≥95%	≥95%	≥95%	≥95%	≥95%
Water reservoir volume	3L	3L	4L	6L	3	3L

Model	RLCO290	RLCO2240	RLCO2151UV	RLCO2212UV	RLC02180	RLC02160W
Shelves						
Shelf dimensions (WxD)	423 x 445 (mm) 16.7 x 17.5 (inch)	423 x 445 (mm), 16.7 x 17.5 (inch)	423x445 (mm) 16.7 x 17.5 (inch)	590x510 (mm) 23.2x20.1 (inch)	453 x 433	466 x 440 (mm) 18.3 x 17.3 (inch)
Shelf construction	3, 10	3, 12	3, 10	3, 12	3, 10	3, 11
Standard, Maximum	Type 304, mirror finish, stainless steel				Type 304, mirror finish, stainless steel, perforated, adjustable	Type 304, mirror finish, stainless steel
Max. Load per Shelf					10kg (22.05 lbs)	

Fittings

Access port	Standard	Standard	Optional	Optional	Standard	Standard
Air filter	0.3µm, Efficiency: 99.998% (for CO ₂)					
Remote alarm contacts	Standard	Standard	Standard	Standard	Standard	Standard

De-contamination

	90°C moist heat disinfection	90°C moist heat disinfection	UV lamp	UV lamp	180°C dry heat disinfection on all internal surfaces	HEPA filter system
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Rated power

	600W	735W	600W	700W		430W
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Power supply

	220V/50Hz (standard), 110V/60Hz (Optional)	220V/50Hz (standard), 110V/60Hz (Optional)	220V/50Hz (standard), 110V/60Hz (Optional)	220V/50Hz (standard), 110V/60Hz (Optional)	220V/50Hz (standard), 110V/60Hz (optional)	220V/50Hz (standard), 110V/60Hz (optional)
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Alarm system

	Power interruption* High/low temperature* Deviation of CO ₂ * RH* Door ajar* Independent overheat protection			Power interruption* High/low temperature* Deviation of CO ₂ * RH* Door ajar* Independent overheat protection	Power interruption* High/low temperature* Deviation of CO ₂ * RH* Door ajar* Independent overheat protection
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Data output

	RS232	RS232	-	-	RS232, Remote Alarm Contacts, USB	RS232
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