

## VWR<sup>®</sup> CO<sub>2</sub> INCUBATORS

Choice

Confidence

Value



Feel confident in a VWR CO<sub>2</sub> incubator that provides you with selection, performance and quality needed in today's cell culture laboratories. Advanced technologies and contamination controls are designed to provide a safe growth environment for your cultures. Our family of CO<sub>2</sub> incubators include water jacketed and air jacketed configurations to meet specific culturing preferences and a wide range of solutions to meet capacity and budget needs.

A **CHOICE** of platform designs and capacities to meet your specific culturing preferences

- Capacities ranging from 1.4 to 6.5 cu. ft.
- Water jacketed models for outstanding temperature stability
- Low maintenance air jacketed models with high temperature decontamination cycles
- Choose between thermal conductivity or infrared CO<sub>2</sub> sensors to meet preference and application needs



Feel **CONFIDENT** that your cultures are in a stable and protected growth environment

- Fan assisted airflow designed for rapid recovery and uniform conditions
- In-chamber probes and sensors designed for precise control
- Dual temperatures for over-temperature protection
- Enhanced contamination control technologies include HEPA filtration and high temperature decontamination

Exceptional **VALUE** for your lab

- Polished, high grade stainless steel chambers
- No upgrades required - advanced technologies are standard
- Choice of small capacity model for low volume culturing needs
- Stackable models available to maximize lab space
- 3 year parts and labor warranty for peace of mind



## Family Overview

CO <sub>2</sub> Incubator Model	Water Jacketed	Air Jacketed	Air Jacketed Basic	Air Jacketed Mini
Capacity	6.5 cu. ft.	6.5 cu. ft.	5.3 cu. ft.	1.4 cu. ft.
CO <sub>2</sub> Sensor	TC or IR	TC or IR	TC	TC
In-Chamber HEPA Filtration	•	•		
On-Demand High Heat Disinfection Cycle		140°C dry heat	90°C moist heat	
Rear Access Port	•	•	•	
Stackable	•	•	•	
3 Year Warranty, Parts and Labor	•	•	•	•

### The Choice Is Yours

#### CO<sub>2</sub> Sensors

**Thermal Conductivity (TC) sensors** traditionally provide reliable, long lasting operation. Sensors also provide stable CO<sub>2</sub> control with consistent humidity and temperature, ideal for everyday cell culture applications.

**Infrared (IR) sensors** monitor CO<sub>2</sub> independent of temperature and humidity, which is ideal for sensitive cultures or remote monitoring applications.

#### Chamber Design

Choose between a water jacketed incubator for added security of thermal stability or an air jacketed incubator for low maintenance and added convenience with high temperature decontamination.



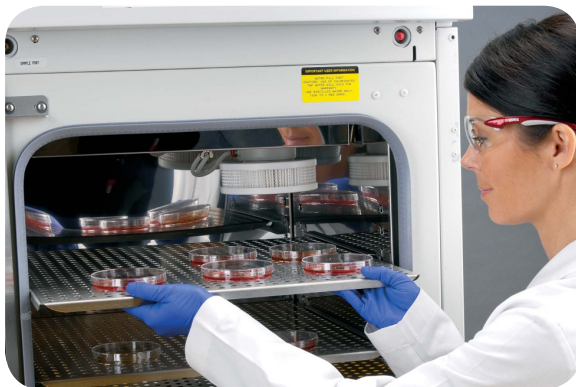
### VWR Water Jacketed CO<sub>2</sub> Incubator

Outstanding temperature stability and security

The VWR Water Jacketed CO<sub>2</sub> incubator protects your cultures from unwanted heat loss by surrounding them with triple walled construction and a jacket of temperature conditioned water. An ideal choice for laboratories concerned with temperature fluctuations from power outages or significant ambient temperature fluctuations.

#### Key Features

- 6.5 cu. ft. internal chamber volume
- Supplied with four removable stainless steel shelves and water pan
- In-chamber HEPA filtration airflow designed to protect samples from airborne contaminants during routine access
- Fan-assisted airflow and in-chamber sensors maintain a uniform and stable growth environment
- Choice of long lasting TC or independent IR CO<sub>2</sub> sensors
- Dual temperatures for over-temperature protection
- Easy assembly and disassembly of interior without tools
- Dual stack configurations include mobile support stand and stacking kit to maximize lab space



*In-chamber HEPA filters protect your cultures by filtering the entire chamber every 60 seconds, achieving cleanroom Class 100 conditions.*



## VWR Air Jacketed CO<sub>2</sub> Incubator

Enhanced safety features include HEPA filtration and high heat sterilization cycle

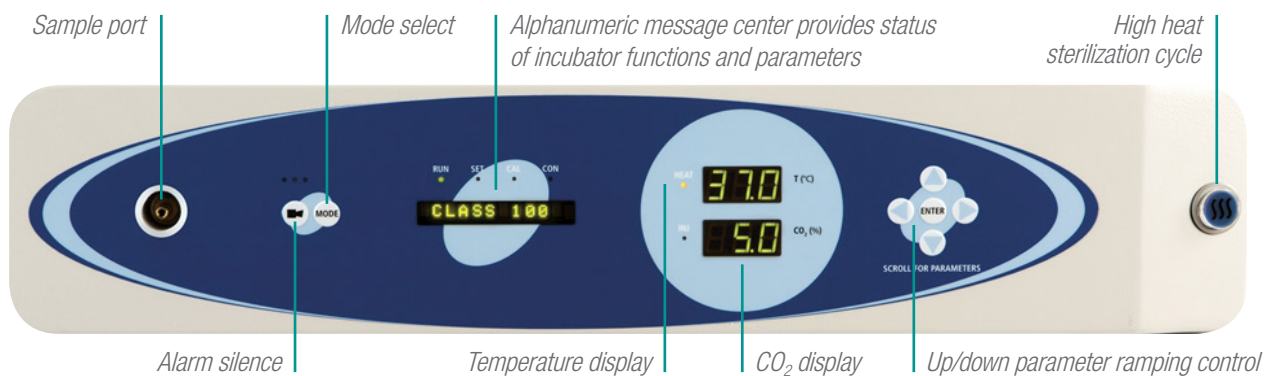
The VWR Air Jacketed CO<sub>2</sub> Incubator offers two levels of security for your valuable cell cultures. HEPA filtration safeguards your cultures from airborne contaminants, which is a primary source of contamination. In addition, the on-demand sterilization cycle eliminates contamination from internal surfaces, simplifying cleaning and minimizing downtime.

### Key Features

- 6.5 cu. ft. internal chamber volume
- Supplied with four removable stainless steel shelves and water pan
- In-chamber HEPA filtration airflow is designed to protect samples from airborne contaminants during routine access
- Overnight 140°C sterilization cycle for easy cleaning and reliable decontamination
- In-chamber probes and sensors are designed for precise control
- Choice of long lasting TC or independent IR CO<sub>2</sub> sensors
- Easy assembly and disassembly of interior without tools
- Dual stack configurations include mobile support stand and stacking kit to maximize lab space



The on-demand high heat sterilization cycle is a convenient 14 hour cycle that eliminates microbial contaminants easily - with a push of button. A message prompts the user and prevents errors or accidental activation.



## VWR Air Jacketed CO<sub>2</sub> Incubator Basic

Exceptional value with high heat decontamination

The VWR Air Jacket CO<sub>2</sub> Incubator Basic delivers value and performance for everyday cell culture applications by providing a reliable growth environment with added convenience of on-demand high heat decontamination.

### Key Features

- 5.3 cu. ft. stainless steel internal chamber volume with three standard shelves
- On-demand 90°C moist heat decontamination cycle for simplified cleaning
- Fan-assisted airflow and in-chamber sensors maintain a uniform and stable growth environment
- Dual temperature probes for over-temperature protection and TC CO<sub>2</sub> sensor for long lasting, reliable performance
- Integrated pan is designed for fast recovery and high relative humidity
- Easy-to-install and dismantle shelf system with rounded corners for easy cleaning

On-demand 90°C moist heat cycle decontaminates entire chamber interior without the need to remove sensors, fittings, and shelves. Independent laboratory tests have validated that 90°C moist heat decontamination is highly effective against wide range of contaminants, including mycoplasma.



Large LED display of temperature and CO<sub>2</sub> percentage with alarm system

## VWR Air Jacketed CO<sub>2</sub> Incubator Mini

Ideal for small volume applications

The VWR Air Jacketed CO<sub>2</sub> Incubator Mini is ideal for use as a personal incubator or for low volume applications in a space-constrained working environment.

### Key Features

- 1.4 cu. ft. internal chamber volume
- Supplied with three removable stainless steel shelves and water pan
- Easy-to-clean with coved corners and minimized internal surfaces
- LED display of temperature and CO<sub>2</sub> with audible and visual alarm system



Model	Water Jacketed CO <sub>2</sub> Incubator
<b>TECHNICAL SPECIFICATIONS</b>	
<b>TEMPERATURE</b>	
Control	±0.1°C
Range	5°C above ambient to 55°C (131°F)
Uniformity	±0.3°C @ 37°C (98.6°F)*
Tracking Alarm	User-programmable high/low
<b>CO<sub>2</sub></b>	
CO <sub>2</sub> Control	±0.1%
CO <sub>2</sub> Range	0-20%
Inlet Pressure Required	15 PSIG (1.0 bar)
CO <sub>2</sub> Sensor	TC or IR
Readability & Setability	0.1%
Tracking Alarm	User-programmable high/low
<b>HUMIDITY</b>	
rH	Ambient to 95% @ 37°C (98.6°F)
Humidity Source	3L (3.2 qt) standard pan
<b>FITTINGS</b>	
Access Port with Filter	1.3" (3.3 cm) with removable silicone plug
Fill Port	3/8" hose (barbed)
Drain Port 1	1/4" hose (barbed)
CO <sub>2</sub> Inlet	1/4" hose (barbed)
<b>UNIT HEAT LOAD</b>	
120V	344 BTU/Hr
<b>SHELVES</b>	
Dimensions (W x D)	18.5 x 18.5" (47 x 47 cm)
Construction	Stainless steel, perforated
Surface Area	2.4 sq. ft. (0.2 sq. m)
Standard, Maximum	4, 17
<b>CONSTRUCTION</b>	
Water Jacket Volume	11.7 gal. (43.5 L)
Interior Volume	6.5 cu. ft. (184.1 L)
Interior	Type 304, mirror finish, stainless steel
Exterior	18 gauge, cold-rolled steel, powder coated
<b>ELECTRICAL</b>	
Rated Voltage	115V, 50/60Hz
Circuit Breaker	6 Amp
Plug	NEMA 5-15
Alarm Contacts	Power interruption; deviation of temp, CO <sub>2</sub>
<b>DIMENSIONS</b>	
Exterior (W x H x D)	26 x 39.5 x 25" (66.8 x 100.3 x 63.5 cm)
Interior (W x H x D)	21.3 x 26.8 x 20" (54.1 x 68.1 x 50.8 cm)
<b>WEIGHT</b>	
Net	265 lbs. (120.2 kg)
Net (operational)	365 lbs. (166.0 kg)
Shipping (Motor)	324 lbs. (147.0 kg)

<b>DESCRIPTION</b>	
<b>SINGLE-UNIT INCUBATORS</b>	<b>CAT. NO.</b>
With Thermal Conductivity (TC) CO <sub>2</sub> Sensor and HEPA Filter	<b>10810-744</b>
With Infrared (IR) CO <sub>2</sub> Sensor and HEPA Filter	<b>10810-878</b>
<b>DUAL-STACKED INCUBATORS</b>	
With Thermal Conductivity (TC) CO <sub>2</sub> Sensor, HEPA Filter, and Mobile Support Stand	<b>10810-884</b>
With Infrared (IR) CO <sub>2</sub> Sensor, HEPA Filter, and Mobile Support Stand	<b>10810-886</b>
<b>ACCESSORIES</b>	
Support Stand 8" H (20.3 cm) with Locking Casters	<b>98000-386</b>
Stainless Steel Shelf with Installation Channel	<b>98000-392</b>

Model	Air Jacketed CO <sub>2</sub> Incubator
<b>TECHNICAL SPECIFICATIONS</b>	
<b>TEMPERATURE</b>	
Control	±0.1°C
Range	3°C above ambient to 55°C (131°F)
Uniformity	±0.3°C @ 37°C (98.6°F) <sup>1</sup>
Tracking Alarm	User-programmable high/low
<b>CO<sub>2</sub></b>	
CO <sub>2</sub> Control	±0.1%
CO <sub>2</sub> Range	0-20%
Inlet Pressure Required	15 PSIG (1.0 bar)
CO <sub>2</sub> Sensor	TC or IR
Readability & Setability	0.1%
Tracking Alarm	User-programmable low
<b>HUMIDITY</b>	
rH	Ambient to 95% @ 37°C (98.6°F)
Humidity Source	3L (3.2 qt) standard pan
<b>FITTINGS</b>	
Access Port with Filter	1.3" (3.3 cm) with removable silicone plug
CO <sub>2</sub> Inlet	1/4" hose (barbed)
<b>UNIT HEAT LOAD</b>	
120V	293 BTU/Hr
<b>SHELVES</b>	
Dimensions (W x D)	18.5 x 18.5" (47 x 47cm)
Construction	Stainless steel, perforated
Surface Area	2.4 sq. ft. (0.2 sq. m)
Standard, Maximum	4, 17
<b>CONSTRUCTION</b>	
Interior Volume	6.5 cu. ft. (184.1L)
Interior	Type 304, mirror finish, stainless steel
Exterior	18 gauge, cold-rolled steel, powder coated
<b>ELECTRICAL</b>	
Rated Voltage	120V, 60Hz
Circuit Breaker	12 Amps
Plug	NEMA 5-15
Alarm Contacts	Power interruption; deviation of temp, CO <sub>2</sub>
<b>DIMENSIONS</b>	
Exterior (W x H x D)	26.3 x 39.5 x 25.0" (66.8 x 100.3 x 63.5 cm)
Interior (W x H x D)	21.3 x 26.8 x 20.0" (54.1 x 68.1 x 50.8 cm)
<b>WEIGHT</b>	
Net	260 lbs (117.9 kg)
Shipping	315 lbs (142.9 kg)

<b>DESCRIPTION</b>	
<b>SINGLE-UNIT INCUBATORS</b>	<b>CAT. NO.</b>
With Thermal Conductivity (TC) CO <sub>2</sub> Sensor, HEPA Filter, and High Temperature Decontamination	<b>10810-902</b>
With Infrared (IR) CO <sub>2</sub> Sensor, HEPA Filter, and High Temperature Decontamination	<b>10810-944</b>
<b>DUAL-STACKED INCUBATORS</b>	
With Thermal Conductivity (TC) CO <sub>2</sub> Sensor, HEPA Filter, High Temperature Decontamination, and Mobile Support Stand	<b>10811-002</b>
With Infrared (IR) CO <sub>2</sub> Sensor, HEPA Filter, High Temperature Decontamination, and Mobile Support Stand	<b>10811-004</b>
<b>ACCESSORIES</b>	
Support Stand 8" H (20.3 cm) with Locking Casters	<b>10820-346</b>
Stainless Steel Shelf with Installation Channel	<b>98000-392</b>

<sup>1</sup> truncated

Model		Air Jacketed CO <sub>2</sub> Incubator Basic
<b>TECHNICAL SPECIFICATIONS</b>		
<b>TEMPERATURE</b>		
Control	±0.1°C	
Range	3°C above ambient to 55°C (131°F)	
Uniformity	+/-0.6°C @ 37°C (98.6°F)	
Tracking Alarm	High/low	
<b>CO<sub>2</sub></b>		
CO <sub>2</sub> Control	Better than ±0.1%	
CO <sub>2</sub> Range	0-20%	
Inlet Pressure Required	15 PSIG (1.0 bar)	
CO <sub>2</sub> Sensor	TC	
Readability & Setability	0.1%	
Tracking Alarm	User-programmable low	
<b>HUMIDITY</b>		
rH	Ambient to 93% @ 37°C (98.6°F)	
Humidity Source	3.2 qt (3L) panless reservoir	
<b>FITTINGS</b>		
Access Port with Filter	1 1/4" (4.2 cm) with removable silicone plug	
CO <sub>2</sub> Inlet	1/8" hose (barbed)	
<b>UNIT HEAT LOAD</b>		
120V	273 BTU/Hr	
<b>SHELVES</b>		
Dimensions (W x D)	16.7 x 17.5" (42.3 x 44.5 cm)	
Construction	Stainless steel, perforated	
Surface Area	6.0 sq. ft. (0.54 sq. m)	
Standard, Maximum	3, 10	
<b>CONSTRUCTION</b>		
Interior Volume	5.3 cu. ft. (150 L)	
Interior	Type 304, mirror finish, stainless steel	
Exterior	18 gauge, cold-rolled steel, powder coated	
<b>ELECTRICAL</b>		
Rated Voltage	120V, 60Hz	
Circuit Breaker/Power Switch	16 Amps	
Plug	NEMA 5-15	
Alarm Contacts	Power interruption; deviation of temp, CO <sub>2</sub>	
Data Outputs	RS 232	
<b>DIMENSIONS</b>		
Exterior (W x H x D)	25 x 34 x 30" (63.7 x 86.7 x 76.6 cm)	
Interior (W x H x D)	18.5 x 23.9 x 20.9" (47 x 60.7 x 53 cm)	
<b>WEIGHT</b>		
Net	154 lbs (70 kg)	
Shipping	165 lbs (75 kg)	

DESCRIPTION	
<b>SINGLE-UNIT INCUBATORS</b>	<b>CAT. NO.</b>
With Thermal Conductivity (TC) CO <sub>2</sub> Sensor and High Temperature Decontamination	<b>10810-888</b>
<b>ACCESSORIES</b>	
Support Stand 8" H (20.3 cm) with Locking Casters	<b>82013-766</b>
Stainless Steel Shelf with Installation Channel	<b>98000-390</b>

Model		Air Jacketed CO <sub>2</sub> Incubator Mini
<b>TECHNICAL SPECIFICATIONS</b>		
<b>TEMPERATURE</b>		
Control	±0.1°C	
Range	5°C above ambient to 60°C (150°F)	
Uniformity	±0.4°C @ 37°C (98.6°F)	
Tracking Alarm	High/low	
<b>CO<sub>2</sub></b>		
CO <sub>2</sub> Control	Better than ±0.1%	
CO <sub>2</sub> Range	0-20%	
Inlet Pressure Required	15 PSIG (1.0 bar)	
CO <sub>2</sub> Sensor	TC	
Readability & Setability	0.1%	
Tracking Alarm	User-programmable high/low	
<b>HUMIDITY</b>		
rH	Ambient to 95% @ 37°C (98.6°F)	
Humidity Pan	1.5 gal. (5.7 L), standard	
<b>FITTINGS</b>		
Access Port with Filter	1.3" (3.3 cm) with removable silicone plug	
CO <sub>2</sub> Inlet	1/4" hose (barbed)	
<b>UNIT HEAT LOAD</b>		
120V	200 BTU/Hr	
<b>SHELVES</b>		
Dimensions (W x D)	13.5 x 11.5" (34.3 x 29.2 cm)	
Construction	Stainless steel, perforated	
Surface Area	1.08 sq. ft. (0.1 sq. m)	
Standard	4	
<b>CONSTRUCTION</b>		
Interior Volume	1.4 cu. ft. (39.6 L)	
Interior	Type 304, mirror finish, stainless steel	
Exterior	18 gauge, cold-rolled steel	
<b>ELECTRICAL</b>		
Rated Voltage	120V, 60Hz (Operating range 90-125V)	
Circuit Breaker/Power Switch	15 Amp	
Plug	NEMA 5-15	
Alarm Contacts	Power interruption; deviation of temp, CO <sub>2</sub>	
<b>DIMENSIONS</b>		
Exterior (W x H x D)	18.5 x 18 x 23.5" (47 x 46.5 x 59.7 cm)	
Interior (W x H x D)	12 x 14 x 14" (30.5 x 46.5 x 35.5 cm)	
<b>WEIGHT</b>		
Net	60 lbs. (28 kg)	
Shipping	70 lbs. (33 kg)	

DESCRIPTION	
<b>SINGLE-UNIT INCUBATORS</b>	<b>CAT. NO.</b>
With Thermal Conductivity (TC) CO <sub>2</sub> Sensor	<b>10810-742</b>



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