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Thermo Scientific Forma® Steri-Cult® CO₂ Incubators

High volume culturing and
ultimate contamination control



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Thermo Scientific Forma Steri-Cult CO₂ Incubators

Ultimate contamination control for ideal culturing conditions

The innovative Thermo Scientific Forma Steri-Cult brings leading edge technology into your lab, combining the most advanced components available into a single incubator. With IR CO₂ sensor, precise microprocessor controls, active humidity control, HEPA air filtration and high temperature decontamination capability, its reputation for quality is unmatched, with researchers who demand the best for their work.

- **Maximum Contamination Control** is provided by minimizing the risk of airborne, waterborne and surface contaminants. Steri-Cult features a validatable in-chamber HEPA air filtration system which continuously removes particulates and maintains your important cultures in cleanroom-like Class 100 air quality conditions. Cleaning protocols are simplified with an on-demand 140°C high temperature sterilization cycle, which reliably eliminates contamination from all internal surfaces, and with a unique design eliminating standing water from within the Steri-Cult, there is no opportunity for waterborne contaminants to threaten your research. No other incubator provides the level of protection for cultures and personnel that the Steri-Cult offers.
- **Active Humidification System** – featuring an exclusive external humidity reservoir, the Steri-Cult allows you to control humidity levels accurately, with no water pan to manage, eliminating a primary breeding ground for contaminants inside an incubator.
- **Largest Stackable Culturing Capacity Available** with two high capacity chamber sizes of 8.2 and 11.4 cu.ft. to choose from, Steri-Cult gives you more room to grow.

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LARGE CAPACITY

Steri-Cult is stackable to maximize space (hardware included as standard)



Ultimate Contamination Control – Minimized risk of airborne and waterborne contamination

Designed for easy cleaning

- Polished stainless steel interior with coved corners is easy to clean and sturdy shelves and supports can be readily removed without tools for when desired.
- Microbiological filters on gas inlet, sample port, and water fill bottle's lid.
- Inner door gasket is removable and cleanable, and adjusts continually to ensure a tight seal.
- No internal humidity water pan to manage or disinfect.
- Proven high heat sterilization system reliably destroys all mycoplasma, fungi, molds, yeast bacteria even hard to kill spores.

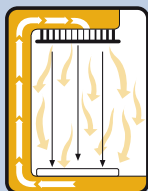
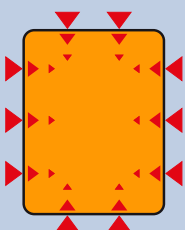
100 % HEPA filtration for rapid response class 100 air quality

- The patented in-chamber HEPA air filtration system, continuously filters the entire chamber volume every 60 seconds, reducing particulates to Class 100 cleanroom levels, to preserve your aseptic culturing environment.
- The HEPA filter entraps particulate air contaminants and prevents their escape. Airborne contaminants are the primary source of contamination in most cell culture lab settings. Efficiency and long term effectiveness of the HEPA filter Airflow System protects your cultures and minimizes downtime.
- Optimized air flow system design will not interfere with samples or incubator function.
- Class 100 air quality conditions are achieved within 5 minutes following a routine door opening.

Volatile Organic Compounds (VOC) filtration system

- An optional built-in VOC filtration system removes volatile organic vapors which could pose risk to sensitive cultures. Its molecular sieve technology captures potentially toxic chemicals commonly found in products such as lab solvents, cleaning agents and plastics, which may find their way into the incubator.
- This easily installed, low maintenance filtration system is more effective and longer lasting than activated charcoal systems in high humidity conditions, such as in a CO₂ incubator.
- Examples of chemicals/vapors filtered include alcohols (ethanol and methanol), alkanes (decane, heptane, hexane), aromatics (toluene, xylene, benzene, styrene), and olefins (cyclohexane).

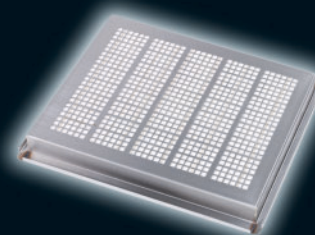
Uniform direct heat Steri-Cult chamber



Validatable Class 100 air quality

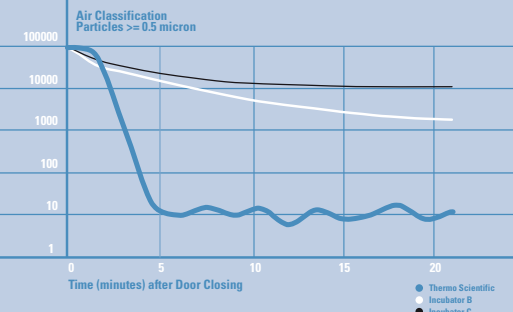
Product yields and reliability can be affected by airborne contamination, costing you time and money. Particulates are reduced to cleanroom levels, minimizing the risk of product loss and downtime.

HEPA filter



AIR QUALITY DEFINED

Federal Standard 209E and International Standard ISO 14644-1 define air quality classifications (e.g., Class 1, 10, 100 and ISO Class 1, 2, etc.). The Federal Standard classification number is the maximum allowable number of particles 0.5 microns and larger per cubic foot of air. ISO Class 2 correlates most closely to Federal Standard Class 100.



Particulate count reduction in a Steri-Cult with Class 100 HEPA filtration versus competitive units with non-rated HEPA filtration systems

On Demand Sterilization Cycle

for event based sterilization with proven reliability, there is no substitute for high temperature to eradicate unwanted microbial contaminants. Steri-Cult incorporates a convenient automatic sterilization program at 140°C, to simplify your cleaning procedures.

Easy to Use

- Activate program with the touch of a button. Thermo Scientific Enviro-Scan® messaging center guides you through the entire process... no chance for error.
- Simply remove the HEPA filter and RH and IR sensors prior to activating the cycle.

Fast

- Convenient overnight sterilization with limited downtime (approximate cycle length 14 hours).
- Post-cycle cleanup is not required, saving time. The incubator returns to your regular operating conditions at the end of the cycle.

Safe

- Audible alarm activates if the outer door is opened during the cycle and the temperature is 60°C (140F) or greater, ensuring safety in the lab.
- Access code prevents accidental initiation of the cycle or changes to the operating parameters.

Effective

Unlike UV decontamination systems and manual disinfection processes, heat sterilization destroys all forms of microbial contamination easily and with certainty.

External humidification system

- Humidification water supply is located outside the chamber, reducing the risk of waterborne contamination in the culture area.
- No water pan to check or handle, no relying on a mechanical switch on a humidity pan to warn you that water is low.
- At-a-glance water level monitoring eliminates the need to open the incubator's outer and inner doors, reducing the risk of contamination.
- Blue backlighting attracts your eye and serves as a subtle reminder to check the humidity supply (light blinks if water is low or water fill bottle is empty).

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The Cycle Starts with the Press of a Button!

During the heat sterilization process, the Microprocessor Control/Monitoring System's message center guides you through the cycle with start-up and cycle status messages. The three sterilization cycle phases are heat, sterilizing (hold), and cool.

Heat Phase – Incubator is ramping to the heat sterilization temperature

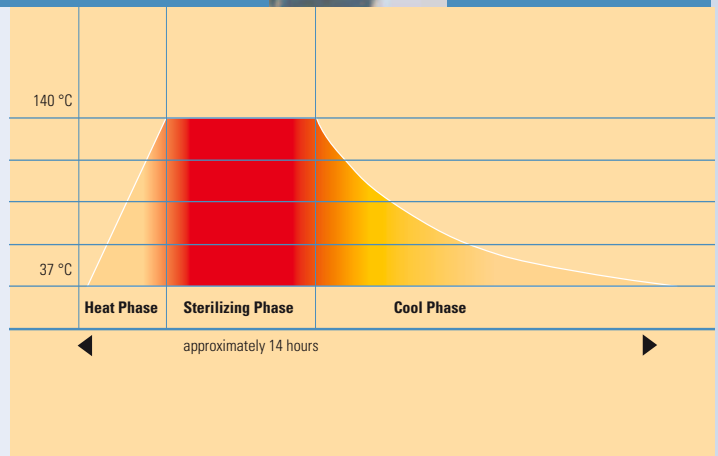
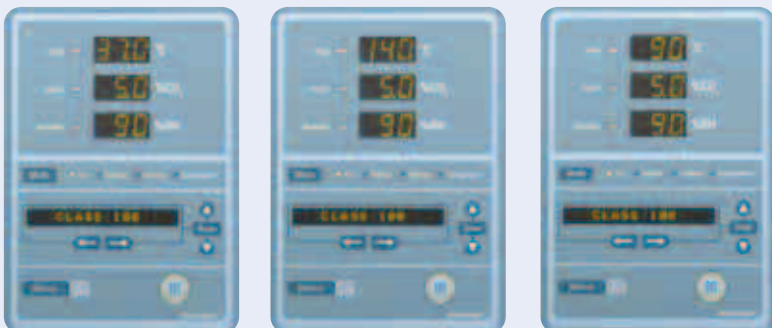
Sterilizing Phase – Chamber has reached the sterilization temperature and all microbial life is destroyed

Cool Phase – Incubator is cooling to normal operating temperature; you are then prompted to replace the HEPA filter and sensor, if applicable

Sterilization temperature profile



◀ Snap-open humidification chamber provides convenient access to the water fill bottle, ensuring ease of maintenance and less disturbance to your cultures.



Thermo Scientific Enviro-Scan Microprocessor Message Center

Displays Temp, CO₂, and RH, includes handy programming controls, and provides the peace of mind of audible/visual alarms and a silence button

Run – Normal operating mode, message changes to describe alarm conditions and status updates

Heat Indicator and Temp Display – Lights when heaters are on and displays the temperature

Inject Indicator and CO₂ Display – Lights when CO₂ is being injected and displays the percent CO₂

Mode – Select Run, Settings, Calibrate, or Configuration mode

Humidity Indicator and RH Display – Lights when humidity is required, displays percent humidity

Message Center – Easy-to-read, alpha-numeric LED displays setpoints, CLASS 100 during normal operation, and other messages

Settings – Set temp, overtemp, CO₂, RH

Alarm Silence and Indicator – Silences the alarm and indicates (pulses on/off) an alarm condition

Configuration – Configure Audible On/Off, Access Code, Remote Alarm Contacts, Tracking Low Temp Alarm, Tracking High and Low CO₂ Alarm, Tracking High and Low RH Alarm, Replace HEPA Alarm Configuration, and the following options: RS-485 Interface, Automatic Tank Selector

Conveniently Located Chamber Gas Sample Port

Programming Buttons

Scroll for Program Parameters

Optional Built-In Datalogger – Designed to meet U.S. FDA guidelines cGLP 21 CFR Part 58, Software Validation 21 CFR Part 820, and Electronic Records 21 CFR Part 11

Sterilization Cycle Button – Starts the sterilization cycle (press and hold)

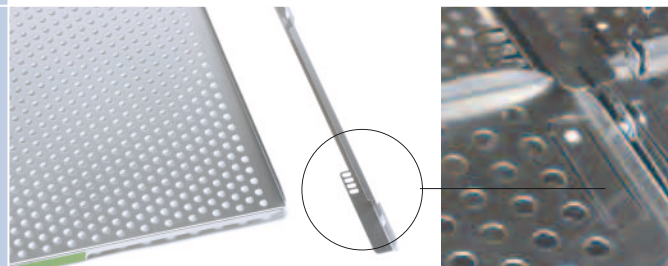
Calibrate – Calibrate temp, CO₂, RH



Options and Accessories

Easy gliding shelving system with "Soft Stop"

Centralized pull point requires less effort to slide shelves out. "Soft Stop" indicates when the shelf is fully extended so you know when to stop sliding the shelf forward.



Color-coded inventory management

Our unique inventory management kit includes five color-coded magnets¹ and shelf labels. You can establish an organized inventory system, which is especially helpful when sharing the incubator. The

reusable magnets on the inside of the outer door allow you to write (with a dry erase marker) and correlate notes to samples on a specific shelf, easily making changes as needed.



Sealed inner glass door kits

The Inner Glass Door Kits minimize fluctuations in temperature, CO₂, and RH during door openings. The small sealed inner doors feature gaskets and latches for a tight fit

and maximum sample protection. Glass construction ensures high visibility of your sample.



Mini Shelf Racks

The Mini Shelf Racks with three adjustable shelves each are designed for space efficiency and easy access to your sample.



Combine the sealed glass door kits with our mini shelf system

Using Mini Shelf Racks with Inner Glass Door Kits allows you to slide the shelves through a specific door opening, eliminating the need to

handle large shelves. This rack and door combination provides efficient, easy access to small amounts of your sample before you move to the benchtop.



Handy, Tilt-Out Storage Pocket

Pocket on the front of the incubator can be used to keep inventory magnets, markers, a manual, etc. within easy reach.



Built-In Datalogger²

You can monitor your results and avoid opening the incubator door unnecessarily and disturbing your cultures.



¹ To color code more than five shelves, order Replacement Inventory Management Kit No. 1900166.

² Without evaluation software

Accessories

Thermo Scientific Steri-Cult® CO₂ incubators

Description	Cat. No.
Accessories are customer installed unless indicated otherwise. We will also manufacture custom accessories to meet your specific requirements. Contact us for details.	
Filters*	
Replacement HEPA Filter	760207
HEPA Filter Replacement Kit, includes a HEPA and one in-line filter	1900160
HEPA ² VOC Filter	760208
HEPA ² VOC Filter Replacement Kit, includes the HEPA ² and one in-line filter	1900161
Door Kits and Shelving	
<i>Sealed Inner Glass Door Kits (replace the existing inner glass door), include separate glass doors with gaskets and latches –</i>	
Three doors for Model 3307 (3308), factory installed	1900169
Six doors for Model 3310 (3311), factory installed	1900170
Three doors for Model 3307 (3308), customer installed**	1900269
Six doors for Model 3310 (3311), customer installed**	1900270
<i>Mini Shelf Racks, include three shelves and five shelf channels with 1.3" (3.3cm) spacing, may be used with or without inner door kits</i>	
Rack with Shelves for Inner Door Kit No. 1900169 and 1900269, max.: 3 racks per Model 3307 (3308)	1900171
Rack Dimensions: 11.8"W x 6.6"H x 19.8"F-B (30.0cm x 16.8cm x 50.3cm)	
Usable Shelf Space: 10.6"W x 19.6"F-B (26.9cm x 49.8cm)	
Rack with Shelves for Inner Door Kit No. 1900170 and 1900270, max.: 6 racks per Model 3310 (3311)	1900172
Rack Dimensions: 8.6"W x 6.6"H x 19.8"F-B (21.8cm x 16.8cm x 50.3cm)	
Usable Shelf Space: 7.4"W x 19.6"F-B (18.8cm x 49.8cm)	
Monitoring and Alarm Systems	
Monitor/Alarm System, interfaces with as many as 24 products (channels) to monitor and display equipment conditions up to 2,000 ft. away	1535
<i>Sensaphone® Telephone Dialing Systems, interface with standard touch-tone phone</i>	
For up to four input channels	400047
For up to eight input channels	400134
<i>Dataloggers, -50°C to 140°C (-58F to 284F), designed to meet U.S. FDA guidelines cGMP 21 CFR Part 58, Software Validation 21 CFR Part 820, and Electronic Records 21 CFR Part 11; contact our Services Department (888-213-1790) for an implementation quotation –</i>	
Built-In Datalogger, without evaluation software, factory installed	201912
Built-In Datalogger, with evaluation software and PC data cable, factory installed	201266
Evaluation Software	201200
PC Data Cable, 6 ft. long	201254
Roller Dollies and Floor Stands	
<i>Roller Dollies, heavy-duty, powder coated steel base with dual-wheel, swivel locking casters and leveling feet; raise unit 3.0" (7.6cm) off the floor –</i>	
For one or two (stacked) Model 3307 (3308)	1900162
For one or two (stacked) Model 3310 (3311)	1900163
<i>Floor Stands, heavy-duty steel with adjustable leveling feet, raise unit 6.5" (16.5cm) off the floor</i>	
For one or two (stacked) , Model 3307 (3308)	1900164
For one or two (stacked) , Model 3310 (3311)	1900165
CO₂ Accessories	
Two-Stage CO ₂ Gas Regulator with barbed connection and shutoff valve	965010
Gas Guard Kit, includes two external and one internal outlet, and a harness, factory installed	1900153
Wall Clamp for a CO ₂	950316
Bottle, includes cylinder holder with web strap	
CO ₂ Fyrite® Analyzer Kit, 0-20%	155021
Data Outputs (select one), factory installed	
RS-485 interface	1900152
4-20 milliamp	191761
0-5V analog	191762
0-1V analog	191763
Miscellaneous Accessories	
Replacement Inventory Management Kit, includes five color coded labels and magnets	1900166
Sealed Modular Incubator Chamber, purge with any gas mixture to create a "mini-incubator" inside your incubator for unusual gas and temperature controlled experiments, dimensions: 12.0" (30.5cm) circular chamber, 4.7" (11.9cm) high	190043
IQ/OQ, MS Windows®-compatible document disk for process customization and detailed checklists to qualify unit setup and operation	6003310

*HEPA and HEPA² filters are rated a minimum 99.97% efficient at 0.3 microns. Filters are easily replaced without tools.

**Must be installed by qualified personnel

Specifications



Thermo Scientific Steri-Cult® CO₂ Incubators

Specifications		Exterior Dimensions	
Temperature		Width (3307/3308)	35.0" (88.9cm)
Control	±0.1°C @ 37°C (98.6F)	Width (3310/3311)	43.0" (109.2cm)
Range	5°C over ambient to 50°C (122F)	Height	39.4" (100.1cm)
Sensor	Thermistor	F-B	27.0" (68.6cm)
Controller	Microprocessor	Interior Dimensions	
Setpoint	Digital	Width (3307/3308)	20.8" (52.8cm)
Display	Digital LED	Width (3310/3311)	28.8" (73.2cm)
Readability & Setability	0.1°C	Height	32.8" (83.3cm)
Uniformity	±0.2°C @ 37°C (98.6F)	F-B	20.6" (52.3cm)
Temperature Safety		Shelves	
Sensor	Thermistor	Standard, Maximum	5, 22
Controller	Microprocessor	Dimensions	
Setability	0.1°C	3307/3308	17.7" x 19.9" (45.2cm x 50.5cm)
CO₂		3310/3311	25.7" x 19.9" (65.5cm x 50.5cm)
Control	±0.1% @ 5.0%	Construction	Perforated stainless steel
Range	0-20%	Surface Area	
Calibration	Auto-zero	3307/3308	2.4 sq. ft. (0.2 sq. m) per shelf
Inlet Pressure	15 PSIG (1.0 bar)	3310/3311	3.6 sq. ft. (0.3 sq. m) per shelf
Filter	0.2 micron, disposable	Loading	50 lbs. (22.7 kg), stationary
Sensor	Dual beam IR	Construction	
Controller	Microprocessor	Interior Volume	
Display	Digital LED	3307/3308	8.2 cu. ft. (232.2 liters)
Readability & Setability	0.1%	3310/3311	11.4 cu. ft. (322.8 liters)
Tracking Alarm	User programmable high/low	Interior	Type 304 mirror finish, stainless steel
Controlled RH		Exterior	18 gauge, cold-rolled steel, powder coated
RH	Ambient to 95% RH, non-condensing	Inner Door	1/4" (0.6cm) fully tempered safety glass with cam action latch
Humidity Control	±2.0%	Outer Door Gasket	Four-sided, molded, magnetic vinyl
Sensor	Capacitive	Inner Door Gasket	Feather, silicone
Controller	Microprocessor	Electrical	
Readability & Setability	1%	3307	115V, 50/60 Hz, 10.5 FLA (Operating range 90-125V)
Humidity Reservoir	1.0 gal. (3.8 liters)	3310	115V, 50/60 Hz, 11.5 FLA (Operating range 90-125V)
Tracking Alarm	User programmable high/low	3308	230V, 50/60 Hz, 5.4 FLA (Operating range 180-250V)
Fittings		3311	230V, 50/60 Hz, 5.9 FLA (Operating range 180-250V)
Drain Port	3/8" barbed with shutoff	Power Switch	2 Pole
Access Port	1.4" (3.6cm) with removable silicone plug	Convenience	75 Watts maximum (receptacle matches cabinet voltage)
CO ₂ Inlet	1/4" hose (barbed)	Plug	115V: NEMA 5-15P Plug 230V: CEE 7/7 Plug
Unit Heat Load		Alarm Contacts	Deviation of temp, CO ₂ , RH, and power failure; accessed using RJ11 jack on rear of unit
Typical Operation		Data Outputs (opt.)	RS-485, 0-1V, 0-5V, 4-20 milliamp (select one)
33 07	824 BTUH (242 Watt)	Weight	
3310	848 BTUH (249 Watt)	Net	
3308	902 BTUH (265 Watt)	3307/3308	330 lbs. (149.7 kg)
3311	926 BTUH (272 Watt)	3310/3311	410 lbs. (186.0 kg)
Sterilization Cycle Operation		Shipping (Motor)	3307/3308 445 lbs. (201.9 kg) 3310/3311 490 lbs. (222.3 kg)
3307	2472 BTUH (727 Watt)		
3310	2544 BTUH (748 Watt)		
3308	2706 BTUH (796 Watt)		
3311	2778 BTUH (817 Watt)		

Cat. No.	Capacity	Voltage
3307	8.2 cu. ft. (232.2 liters)	115
3308	8.2 cu. ft. (232.2 liters)	230
3310	11.4 cu. ft. (322.8 liters)	115
3311	11.4 cu. ft. (322.8 liters)	230

All units are UL Listed to United States and Canadian requirements and bear the CE Mark.



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