

Incubators

B.O.D., CO₂, Humidified, Shaking

SHEL  **LAB**®



Sheldon Manufacturing, Inc. is an ISO 9001:2008 certified manufacturer of high quality and innovative constant temperature equipment to the global market. Major product lines include incubators, humidity test chambers, ovens, water and bead baths, and anaerobic chambers for the life science, pharmaceutical, biomedical, environmental and industrial markets. Founded in 1970, Sheldon utilizes over 40 years of manufacturing expertise to aggressively pursue new product opportunities that add value to our customers' portfolio. Sheldon markets a complete line of products under the SHEL LAB and Lab Armor brands, which compliment our OEM manufacturing capabilities.

Contact us: US toll free - 1 (888) 227-1410 or (503) 640-3000

Visit our websites at www.shellab.com and www.labarmor.com.



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Microbiological Incubators



SHEL LAB General Purpose Incubators are the ideal solution for industrial protocols, biological research and environmental studies that demand accurate and repeatable results. Their best in class temperature uniformity is usually found only in more expensive, application specific incubators. SHEL LAB General Purpose Incubator's wide temperature and size range make them a perfect solution for any lab.

Applications include:

- Biochemical Studies
- Hematological Studies
- Bacterial Culturing and Research
- Microbiological Determinations
- Pharmaceutical Stability Assays
- Food Processing Quality Control
- Large Scale Roller Apparatus Applications



Microbiological Incubators

Laboratory Series



Heated doors and a unique air jacket design achieve precise temperature uniformity. An independent secondary temperature controller offers the added safety and security of over temperature production.

The laboratory incubator series models include a sealed, inner glass door which provides a view into the chamber without compromising samples or the chamber environment. Stainless steel panels and doors reduce contamination, provide durability and allow for easy cleaning.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Temperature Uniformity +/-0.35°C at 37°C
- Temperature Range Ambient +8°C to 70°C



Adjustable, No Tip Shelf Design



Interior Electrical Outlet



Throughwall Access Port



SMI12

2 Year Limited Warranty!



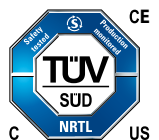
SMI6



SMI2



SMI11



| General Purpose Laboratory Incubators | Details | Model Number | | | | |
|---------------------------------------|----------|--------------------|--------------------|--------------------|--------------------|---------------------|
| | | SMI2 Bench Top | SMI7 Under Counter | SMI11 Double Doors | SMI6 Floor Model | SMI12 Dual/Stacked |
| Exterior Dimensions (wxdxh) | Inches | 22.0 x 22.0 x 27.3 | 30.0 x 31.8 x 32.3 | 42.5 x 27.0 x 38.0 | 25.5 x 27.3 x 38.0 | 25.5 x 27.3 x 75.8 |
| | cm | 55.9 x 55.9 x 66.1 | 76.2 x 80.7 x 82.0 | 108 x 68.6 x 96.6 | 64.8 x 69.3 x 96.6 | 64.8 x 69.3 x 192.5 |
| Chamber Dimensions (wxdxh) | Inches | 15.0 x 15.0 x 15.0 | 23.7 x 24.0 x 19.7 | 36.2 x 20.0 x 25.7 | 19.2 x 20.0 x 25.7 | 19.2 x 20.0 x 25.7 |
| | cm | 38.1 x 38.1 x 38.1 | 60.3 x 60.9 x 50.2 | 92.0 x 50.8 x 65.4 | 48.9 x 50.8 x 65.4 | 48.9 x 50.8 x 65.4 |
| Incubator Chamber Capacity | cu ft | 2 | 6.5 | 10.8 | 5.7 | 5.7 (each) |
| | L | 56 | 184 | 306 | 162 | 162 (each) |
| Number of Shelves | Included | 2 | 2 | 6 | 3 | 3 (each) |
| | Maximum | 6 | 9 | 12 | 12 | 12 (each) |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.

Microbiological Incubators

Air Jacket Economy Line



SHEL LAB general purpose incubators deliver a degree of temperature uniformity usually found only in more expensive, application specific models. Efficient gravity convection heating is supplied by economical low watt density heating elements. The heating element has a unique shield to protect against spills inside the chamber.

The rigidly constructed chamber is insulated with 2" of industrial fiberglass, minimizing heat loss and maximizing temperature uniformity.

The hydraulic controller is dependable and regulates the chamber temperature. Incubator door, with its positive door latch, is tightly sealed with a 1/2" silicone gasket. Glossy white interior enables easy contamination detection.

Model SMI1EM has a microprocessor based controller, for greater temperature accuracy.

Precise Temperature Control - Superior Uniformity

- Temperature Uniformity +/- 0.5°C at 37°C
- Temperature Range Ambient + 5.0°C to 70°C

**1 Year
Limited
Warranty!**

| General Purpose Economy Incubators | Details | Model Number | | | | |
|--|----------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | SMI1E | SMI1EM | SMI2E | SMI4E | SMI6E |
| Exterior Dimensions (wxdxh) | Inches | 16.8 x 17.8 x 22.3 | 16.8 x 17.8 x 22.3 | 21.5 x 18.0 x 25.5 | 21.0 x 24.5 x 31.5 | 24.5 x 25.0 x 36.5 |
| | cm | 42.7 x 45.2 x 56.6 | 42.7 x 45.2 x 56.6 | 54.6 x 45.7 x 64.8 | 53.4 x 61.2 x 80.0 | 62.3 x 63.5 x 92.8 |
| Chamber Dimensions (wxdxh) | Inches | 12.0 x 12.0 x 14.0 | 12.0 x 12.0 x 14.0 | 17.0 x 12.0 x 17.0 | 16.0 x 19.0 x 22.0 | 20.0 x 19.0 x 28.0 |
| | cm | 30.4 x 30.4 x 35.5 | 30.4 x 30.4 x 35.5 | 43.1 x 30.4 x 43.1 | 40.6 x 48.2 x 55.8 | 50.8 x 48.2 x 71.1 |
| Incubator Chamber Capacity | cu ft | 1 | 1 | 2 | 4 | 6 |
| | L | 28 | 28 | 56 | 113 | 170 |
| Number of Shelves | Included | 2 | 2 | 2 | 2 | 2 |
| | Maximum | 6 | 6 | 6 | 6 | 6 |
| All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time. | | | | | | |

Microbiological Incubators

Large Capacity



OPTIMIZED FLOOR SPACE

Large capacity incubators provide 30.8 & 38.6 cu.ft. chamber capacities while minimizing the amount of floor space used. Both models incorporate our microprocessor controller to achieve precise temperature uniformity. An independent, secondary temperature controller offers the added security of over temperature protection. The chamber floors are reinforced to support roller apparatus or shakers. Both models are supplied with six shelves capable of supporting the weight of benchtop instruments.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Temperature Uniformity $\pm 0.8^{\circ}\text{C}$ at 37°C
- Temperature Range Ambient $+8^{\circ}\text{C}$ to 70°C

FEATURES

- Four (4) Interior Electrical Outlets
- Prewired Panel for Chart Recorder
- Tempered Glass Viewing Window

**2 Year
Limited
Warranty!**

| Large Capacity/Reach-In General Purpose Incubators | Details | Model Number | |
|---|----------|---------------------|----------------------|
| | | SMI31 | SMI39 |
| Exterior Dimensions (wxdxh) | Inches | 38.5 x 34.0 x 75.3 | 41.5 x 34.8 x 87.5 |
| | cm | 97.8 x 86.4 x 191.2 | 105.4 x 88.3 x 222.3 |
| Chamber Dimensions (wxdxh) | Inches | 32.2 x 26.0 x 63.5 | 35.0 x 26.0 x 73.2 |
| | cm | 81.9 x 66.0 x 161.2 | 88.9 x 66.0 x 186.0 |
| Incubator Chamber Capacity | cu ft | 30.8 | 38.6 |
| | L | 872 | 1092 |
| Interior Outlet | Number | 110V-4/ 220V-4 | 110V-4 / 220V-4 |
| Access Port | Number | 1 | 1 |
| Number of Shelves | Included | 6 (16 max) | 6 (20 max) |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within $\pm 10\%$ of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology.
We reserve the right to change specifications at any time.

Refrigerated Incubators



SHEL LAB Refrigerated Incubators (often called B.O.D. Incubators or Low Temperature Incubators) are commonly used for applications such as B.O.D. Determinations, Plant and Insect Studies, Fermentation Studies, and Bacterial Culturing.

Units are equipped with a hermetically-sealed compressor, a circuit breaker to protect from electrical overload, and an easy-to-clean, fully insulated chamber. Gentle, continuous forced-air circulation ensures temperature uniformity and reproducible test conditions.



BOD Incubator Applications

- APHA Method at 20°C
- Plant Cell Growth
- Fermentation Studies
- Bacterial Culturing
- Mycology Studies

BOD Application

Biochemical Oxygen Demand (B.O.D.) incubators enable end users to determine levels of organic matter and nitrogen in wastewater samples. This wastewater must be effectively measured for contaminants, treated and then released back into the environment without posing a threat to the water supply system. Increased enforcement by government regulatory agencies charged with monitoring air and water quality has forced a greater number of organizations to actively test and treat their wastewater. B.O.D. incubators facilitate the storage of wastewater samples, and the SHEL LAB Low Temperature Incubators accommodate from 62 to 345 BOD bottles.

Refrigerated Incubators Under Counter



Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Temperature Uniformity +/- 0.5°C at 20°C
- Temperature Range 0°C to 45°C at 20°C Ambient



The SRI3 space-saving low temperature incubator is ideal for small volume workloads and meets APHA specifications for Biochemical Oxygen Demand (B.O.D.) analysis.

Units are equipped with a hermetically-sealed compressor, a circuit breaker to protect from electrical overload, and an easy-to-clean fully insulated chamber that is corrosion-resistant. Gentle, continuous forced-air circulation ensures temperature uniformity and reproducible test conditions. Each unit also includes an independent over temperature safety controller, two shelves (adjustable in two inch increments), and a one amp interior outlet to allow the use of shakers, stirrers, roller bottles or other apparatus. This unit has a steel exterior with welded seams and corners and a double-coated, baked enamel finish. It is supplied with adjustable leveling feet and a condensation drip tray.

| Refrigerated Incubators | Details | Model Number |
|---|----------|--------------------|
| | | SRI3 |
| Exterior Dimensions (wxdxh) | Inches | 24.0 x 21.0 x 33.8 |
| | cm | 61.0 x 53.4 x 85.8 |
| Chamber Dimensions (wxdxh) | Inches | 16.0 x 12.0 x 21.5 |
| | cm | 40.6 x 30.4 x 54.6 |
| Incubator Chamber Capacity | cu ft | 2.4 |
| | L | 68 |
| Interior Outlet | Number | 110V -1 / 220V-2 |
| Bottle Capacity | Number | 62 |
| Number of Shelves | Included | 2 |
| <p>All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.</p> | | |

Refrigerated Incubators

Large Capacity



The SHEL LAB Low Temperature Incubators have a temperature range of 20°C degrees below ambient to 45°C. The Refrigerated Incubators also include an independent over temperature safety controller, adjustable shelves in two inch increments and a one amp interior outlet to allow the use of shakers, stirrers, roller bottles or other apparatus.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Temperature Uniformity +/- 0.5°C at 20°C
- Temperature Range 0°C to 45°C at 20°C Ambient

**2 Year
Limited
Warranty!**

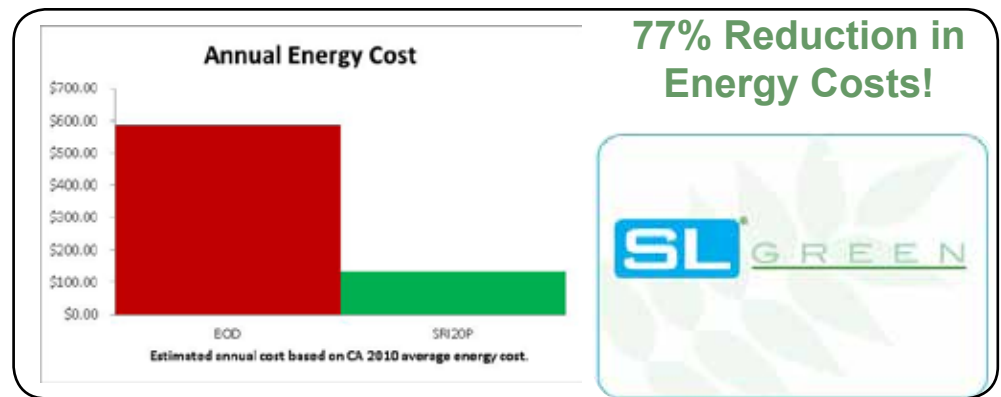
| Refrigerated Incubators | Model Number | |
|---|--------------|---------------------|
| | Details | SRI20 |
| Exterior Dimensions (wxdxh) | Inches | 34.5 x 34.5 x 77.5 |
| | cm | 87.7 x 87.7 x 196.9 |
| Chamber Dimensions (wxdxh) | Inches | 27.0 x 23.0 x 56.5 |
| | cm | 68.5 x 58.4 x 143.5 |
| Incubator Chamber Capacity | cu ft | 20.3 |
| | L | 574 |
| Interior Outlet | Number | 110V-1 / 220V -2 |
| Bottle Capacity | Number | 345 |
| Number of Shelves | Included | 4 |
| <p>**All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.</p> | | |

Refrigerated Incubators

Peltier Cooled Series



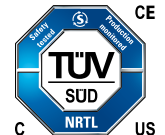
Innovative peltier cooling technology, eliminates the need for a refrigeration compressor in the peltier cooled series. These units use 78% less power than alternative models and reduce room air conditioning loads by 75%. They also include 75 pound capacity shelves, which eliminates sagging. These incubators meet APHA specifications for Biochemical Oxygen Demand (B.O.D.) and include a mechanical convection system to ensure even air distribution, digital temperature set controller, over temperature limit control, and a digital temperature display.



2 Year
Limited
Warranty!

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Temperature Uniformity +/- 0.5°C at 20°C
- Temperature Range 15°C to 40°C at 20°C Ambient



| BOD Incubators | Details | Model Number | |
|-----------------------------|----------|------------------------|--------------------------|
| | | SRI6P Under Counter | SRI20P Large Capacity |
| Exterior Dimensions (wxdxh) | Inches | 30.0 x 31.5 x 33.5 | 30.0 x 31.5 x 69.5 |
| | cm | 76.2 x 80.1 x 85.1 | 76.2 x 80.1 x 176.6 |
| Chamber Dimensions (wxdxh) | Inches | 25.5 x 24.0 x 18.5 | 25.5 x 24.0 x 54.5 |
| | cm | 64.7 x 60.9 x 46.9 | 64.7 x 60.9 x 138.4 |
| Incubator Chamber Capacity | cu ft | 6.5 | 19.3 |
| | L | 185 | 546 |
| Interior Outlet | Number | 120V -1 / 230V-2 | 120V-1 / 230V -2 |
| Bottle Capacity | Number | 120 | 300 |
| Number of Shelves | Included | 2 | 5 |

**All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.

Refrigerated Incubators

Diurnal Plant Chamber



SHEL LAB Diurnal growth chambers are designed for studies requiring day and nighttime simulation. This unit features dual-program selector dials, which allows control of two temperature conditions and an ON/OFF illumination cycle relative to the program selected. Each system operates independently allowing for simulation of a diurnal cycle, such as an eight hour day cycle of 30°C with light followed by a sixteen hour night cycle of 18°C without light. Forced air circulation ensures the most reproducible test conditions. The chamber air is gently and continuously circulated at a rate that ensures temperature uniformity of all test samples.

The unit is equipped with a hermetically-sealed compressor and an independent over temperature safety controller. In addition, a one amp interior outlet allows use of shakers, stirrers, roller bottles or other apparatus. This chamber is ideal for plant growth studies.

- LED Display of Set point and Chamber Temperature
- High and Low Limit Temperature Protection
- Day/Night Light and Temperature Control
- Fan Assisted/Forced-Air Circulation
- Hermetically Sealed Compressor
- Interior Electrical Outlet

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Temperature Range 0°C to 45°C at 20°C Ambient
- Temperature Uniformity +/- 0.5°C at 20°C

2 Year
Limited
Warranty!



| Diurnal Plant Chamber | Model Number | |
|---|--------------|---------------------|
| | Details | SRI21D |
| Exterior Dimensions (wxdxh) | Inches | 34.5 x 34.5 x 77.5 |
| | cm | 87.7 x 87.7 x 196.9 |
| Chamber Dimensions (wxdxh) | Inches | 27.0 x 23.0 x 56.5 |
| | cm | 68.5 x 58.4 x 143.5 |
| Incubator Chamber Capacity | cu ft | 20.3 |
| | L | 574 |
| Interior Outlet | Number | 110V - 1 / 220V - 2 |
| Number of Shelves | Included | 4 |
| Bottle Capacity | Number | 317 |
| <p>All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.</p> | | |

Refrigerated Incubators

Drosophila Chamber



**2 Year
Limited
Warranty!**

The SHEL LAB Drosophila specific low temperature incubator that takes advantage of the range of temperatures acceptable in Drosophila culture allowing the condensing coil adequate cycling time, thus avoiding ice build-up. This incubator addresses all of the major performance issues associated with other fly-specific incubators on the market.

This incubator functions within the range of temperature preferred by fruit flies. The elements only activate if the chamber temperature goes below the programmed lowest acceptable level. The compressor will shut off and rest while the chamber temperature slowly rises in response to a door opening or heat from fan or optional light. This results in a longer lasting unit with less maintenance, reduced heat output and less noise from the compressor.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Temperature Range 0°C to 29°C

- Microprocessor controlled interior light mimics diurnal cycles that foster breeding
- Conformal coated refrigeration coils
- Robust, programmable heating and cooling control

| Drosophila Chamber | Details | Model Number | |
|-----------------------------|----------|----------------------|-------------------------|
| | | SRI21F Drosophila | SRI21FV Viewing Door |
| Exterior Dimensions (wxdxh) | Inches | 34.5 x 34.5 x 77.5 | 34.5 x 34.5 x 77.5 |
| | cm | 87.7 x 87.7 x 196.9 | 87.7 x 87.7 x 196.9 |
| Chamber Dimensions (wxdxh) | Inches | 27.0 x 23.0 x 56.5 | 27.0 x 23.0 x 56.5 |
| | cm | 68.5 x 58.4 x 143.5 | 68.5 x 58.4 x 143.5 |
| Incubator Chamber Capacity | cu ft | 20.3 | 20.3 |
| | L | 574 | 574 |
| Interior Outlet | Number | 110V - 1 / 220V - 2 | 110V - 1 / 220V - 2 |
| Number of Shelves | Included | 8 | 8 |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.

CO₂ Incubators

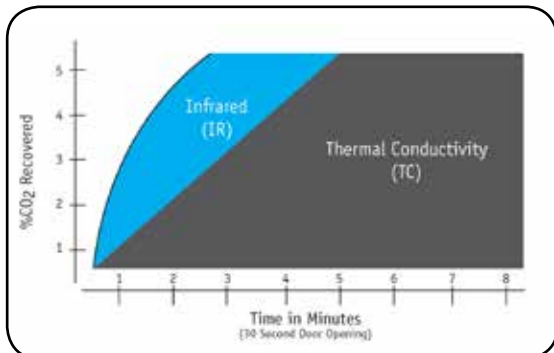


CO₂ Incubator Applications

- Cell and Tissue Culture
- Immunology
- Genetic Engineering
- Protein Synthesis
- Virology
- Neurology
- Pharmacology
- In vitro Fertilization
- Human Vaccines
- Veterinary Vaccines
- Carcinogenicity Testing
- Monoclonal Antibodies

Infrared (IR) CO₂ Sensors

For the fastest CO₂ recovery and most stable performance, this series features IR sensors.



Contamination Control

Extensive use of copper in the CO₂ sample port, heated CO₂ feed line, housing of the patented HEPA filtration system, and humidity pan with a copper SL decontamination token, adds reassurance that foreign microbes will not affect test results. Cleanup is a breeze with the all stainless steel chamber, and autoclavable door gasket. Optional copper shelves are available for most units for even more contamination control.



copper shelving
option



CO2 Incubators

Water Jacket Economy



The SHELLAB economy incubator was designed and manufactured to accommodate tight budgets, while maintaining the fundamental needs of quality and precision. These units have PID microprocessor controllers, a heated outer door and a tempered-glass inner door. They provide exceptional temperature uniformity, while minimizing cold spots that lead to condensation and ultimately, contamination. Although they do not have a humidity display, the extremely stable temperature environment maintains constant humidity through evaporation at up to 95%.

The audible/visual alarms for temperature and CO2 respond to out-of-tolerance conditions. They offer an independent overtemperature safety control to protect samples from overheating, and an optional CO2 tank switch/alarm to prevent prematurely exhausting the gas supply.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature & CO2 Alarm
- Inner Glass Viewing Door
- Temperature Uniformity +/- 0.2°C at 37°C
- Temperature Range Ambient + 8°C to 60°C
- CO2 Range 0 - 20%
- CO2 Recovery Rate < 5 Minutes
- Relative Humidity Up to 80%

Tissue & Cell Culture Applications

These incubators control three essential variables related to replicating the mammalian environment;

- Stable CO2 Level
- Controlled Temperature
- Relative Humidity (RH)



copper shelving option

5 Year Limited Warranty!

We stand behind our product quality, ShellLab CO₂ Incubators come with the most extensive warranties in the industry.

- 5 years parts (labor included in the US)
- 7 years IR sensor
- Lifetime water jacket chamber

| Water Jacket CO2 Incubators | Details | Model Number | |
|-----------------------------|----------|-----------------------|----------------------------------|
| | | SCO6WE Floor Model | SCO12WE Dual/Stacked Chambers |
| Exterior Dimensions (wxdxh) | Inches | 26.0 x 26.3 x 40.3 | 26.0 x 25.8 x 51.0 |
| | cm | 66.0 x 66.7 x 102.3 | 66.1 x 65.5 x 203.2 |
| Chamber Dimensions (wxdxh) | Inches | 20.2 x 19.7 x 25.2 | 20.5 x 20.0 x 25.5 each |
| | cm | 51.4 x 50.1 x 64.1 | 52.0 x 50.8 x 64.7 each |
| Incubator Chamber Capacity | cu ft | 6 | 12 (6 each) |
| | L | 165 | 342 |
| Number of Shelves | Included | 3 (16 Max) | 3 each chamber (16 Max) |

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CO2 Incubators

Water Jacket Series



This series of CO2 Incubators offer dependable Infrared (IR) CO2 Sensor control and are ideal for sensitive tissue and cell culture applications. They provide the benefits of contamination control and uncompromising temperature uniformity for even the most demanding incubations.

Precision is easily maintained with push-button calibration of both temperature and CO2, and audio/visual alarms that signal high/low temperature and CO2 conditions. Modular controls and backup systems ensure confidence for incubating valuable samples, providing the dependable assurance you expect from a SHELL LAB incubator.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature & CO2 Alarm
- Inner Glass Viewing Door
- Temperature Uniformity +/- 0.2°C at 37°C
- Temperature Range Ambient + 8°C to 60°C
- CO2 Range 0 - 20%
- Infrared (IR) CO2 Sensor Accuracy +/- 0.1%
- CO2 Recovery Rate < 5 Minutes
- Relative Humidity Up to 95%



Patented Copper Coated HEPA Filter

A "Bacteriostatic" copper cage to trap particulate matter and reduce potential for chamber contamination. This filter removes 99.97% of all airborne microbes and isolated microbes 0.3 microns or larger.

**5 Year
Limited
Warranty!**

We stand behind our product quality, ShellLab CO₂ Incubators come with the most extensive warranties in the industry.

- 5 years parts (labor included in the US)
- 7 years IR sensor
- Lifetime water jacket chamber

| Water Jacket CO2 Incubators | Details | Model Number | | |
|-----------------------------|----------|--------------------|----------------------|---------------------------------|
| | | SC02W Bench Top | SC05W Floor Model | SC010W Dual/Stacked Chambers |
| Exterior Dimensions (wxdxh) | Inches | 21.0 x 22.5 x 27.0 | 26.0 x 25.5 x 40.3 | 26.0 x 25.5 x 80.6 |
| | cm | 53.4 x 57.2 x 68.6 | 66.1 x 64.8 x 102.3 | 66.1 x 64.8 x 204.6 |
| Chamber Dimensions (wxdxh) | Inches | 15.7 x 15.7 x 10.2 | 19.2 x 19.7 x 23.0 | 19.2 x 19.7 x 23.0 each |
| | cm | 40.0 x 40.0 x 26.0 | 48.9 x 50.1 x 58.4 | 48.9 x 50.1 x 58.4 each |
| Incubator Chamber Capacity | cu ft | 1.5 | 5 | 10 (5 each) |
| | L | 42 | 143 | 286 |
| Number of Shelves | Included | 3 | 3 | 3 each |

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CO₂ Incubators

High Heat Decontamination



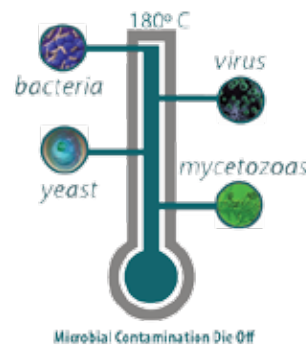
PROTECT YOUR SAMPLES WITH HIGH HEAT DECONTAMINATION!

The model SCO6AD features a dry heat decontamination cycle, that maintains 180°C for 120 minutes. This industry best time and temperature relationship satisfies all global standards for decontamination.

This is decontamination at its fastest easiest and most effective - it is not necessary to remove the IR CO₂ sensor prior to activating the decontamination process and we feature the shortest cycle time on the market. This is a more convenient approach and eliminates potential damage to the sensitive IR sensor.

Other features of the SCO6AD include a USB interface for software communication, precise temperature control microprocessor and an independent over temperature safety controller.

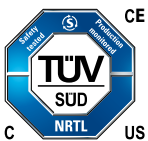
The SHEL LAB SCO6AD is designed to stop microbial contamination caused by mycetozoa, yeast, viruses, and bacteria and the range of other microorganisms that thrive in incubator environments.



5 Year Limited Warranty!

We stand behind our product quality, Shel Lab CO₂ Incubators come with the most extensive warranties in the industry.

- 5 years parts (labor included in the US)
- 7 years IR sensor



| Incubators, Infrared (IR) CO ₂ Sensor | Details | Model Number SCO6AD |
|--|----------|-------------------------------|
| Exterior Dimensions (wxdxh) | chesDe | 28.8 x 30.3 x 39.3 |
| | cm | 73.1 x 76.8 x 99.7 |
| Chamber Dimensions (wxdxh) | Inches | 20.2 x 20.0 x 25.5 |
| | cm | 51.4 x 50.8 x 64.7 |
| Incubator Chamber Capacity | cu ft | 5.9 |
| | L | 167 |
| CO ₂ Range | % | 0-20% |
| CO ₂ Sensor Accuracy | at 5% | +/-0.1% |
| CO ₂ Recovery Rate | to 5% | <5 Minutes to 95% of Setpoint |
| Relative Humidity | at 37°C | Up to 95% |
| Temperature Range | Celsius | Ambient +5°C to 60°C |
| Temperature Uniformity | Celsius | +/- 0.25°C at 37°C |
| Over Temperature Protection | Yes/No | Yes |
| Temperature Alarm | Yes/No | Yes |
| CO ₂ Alarm | Yes/No | Yes |
| Number of Shelves | Included | 3 |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology.

We reserve the right to change specifications at any time.

C02 Incubators

Air Jacket Series



The air jacket series of CO₂ Incubators offer dependable Infrared (IR) CO₂ Sensor control and are ideal for sensitive tissue and cell culture applications. They provide the benefits of contamination control and uncompromising temperature uniformity for even the most demanding incubations.

Precision is easily maintained with push-button calibration of both temperature and CO₂, and audio/visual alarms that signal high/low temperature and CO₂ conditions. Modular controls and backup systems ensure confidence for incubating valuable samples, providing the dependable assurance you expect from a SHEL LAB incubator.

Patented Copper Coated HEPA Filter

A “Bacteriostatic” copper cage to trap particulate matter and reduce potential for chamber contamination. This filter removes 99.97% of all airborne microbes and isolated microbes 0.3 microns or larger.



Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature & CO₂ Alarm
- Inner Glass Viewing Door
- Temperature Uniformity +/- 0.25°C at 37°C
- Temperature Range Ambient + 8°C to 60°C
- CO₂ Range 0 - 20%
- Infrared (IR) CO₂ Sensor Accuracy +/- 0.1%
- CO₂ Recovery Rate < 5 Minutes
- Relative Humidity Up to 95%

**5 Year
Limited
Warranty!**

We stand behind our product quality, ShellLab CO₂ Incubators come with the most extensive warranties in the industry.

- 5 years parts (labor included in the US)
- 7 years IR sensor

| Copper Shelf Options | Part Number |
|--|-------------|
| Copper Shelf Kit (3 Shelves, 6 Slides) | 89409-632 |
| Copper Shelf Slides | 89409-594 |
| Copper Shelf | 89409-592 |

| Air Jacket CO ₂ Incubators | Details | Model Number | |
|--|----------|--------------------|---------------------------------|
| | | SC05A Standard | SC010A Dual/Stacked Chambers |
| Exterior Dimensions (wxdxh) | Inches | 27.3 x 28.0 x 37.8 | 27.3 x 28.0 x 75.6 |
| | cm | 69.3 x 71.2 x 95.9 | 69.3 x 71.2 x 191.8 |
| Chamber Dimensions (wxdxh) | Inches | 20.5 x 19.7 x 21.5 | 20.5 x 19.7 x 21.5 each |
| | cm | 52.0 x 50.1 x 54.6 | 52.0 x 50.1 x 54.6 each |
| Incubator Chamber Capacity | cu ft | 5 | 10 (5 each) |
| | L | 142 | 284 |
| Number of Shelves | Included | 3 | 3 each |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.

CO2 Incubators

Air Jacket Large Capacity



These units are well suited for roller bottle apparatus and high-volume tissue culture applications and are ideal for cell harvesting.

This large capacity incubator maximizes laboratory space in a convenient floor model design. Its chamber floor is specifically designed for easy movement of roller bottle apparatus by use of a flip-out ramp. Supplied with four one amp interior electrical outlets and gentle mechanical air convection that ensures excellent temperature uniformity, and eliminates cold spots. An infrared system accurately controls CO2 levels, provides fast CO2 recovery after door openings, and is not affected by temperature or humidity. This unit is supplied with six stainless steel shelves, which are adjustable on 1/2 inch increments.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Temperature Uniformity +/- 0.5°C at 37°C
- Temperature Range Ambient + 8°C to 60°C
- CO2 Range 0 - 20%
- Infrared (IR) CO2 Sensor Accuracy +/- 0.1%
- CO2 Recovery Rate < 5 Minutes

SHEL LAB reach-in CO2 incubators are available in 31 cu.ft., 40 cu.ft., and 58 cu.ft. sizes.



| Air Jacket CO2 Incubators | Details | Model Number | | |
|-----------------------------|----------|----------------------|---------------------|-----------------------|
| | | SC031 | SC040 | SC058 |
| Exterior Dimensions (wxdxh) | Inches | 39.5 x 33.8 x 75.3 | 42.5 x 34.5 x 87.0 | 51.0 x 44.8 x 80.0 |
| | cm | 100.4 x 85.8 x 191.2 | 108.0 x 87.7 x 221 | 129.6 x 113.7 x 203.2 |
| Chamber Dimensions (wxdxh) | Inches | 32.7 x 26.0 x 63.0 | 35.0 x 26.0 x 75.5 | 43.0 x 34.5 x 67.5 |
| | cm | 83.1 x 66.0 x 160.0 | 88.9 x 66.0 x 191.7 | 109.2 x 87.6 x 171.4 |
| Incubator Chamber Capacity | cu ft | 31 | 40 | 58 |
| | L | 879 | 1125 | 1641 |
| Number of Shelves | Included | 6 | 6 | 6 |
| Interior Outlet | Included | 4 | 4 | 4 |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.

Humidified CO2 Incubators



SHEL LAB Model SC026H, is the newest addition to the large capacity CO2 incubator line. This 26.1 cubic foot incubator features active humidity control up to 95%.

This unit has exceptional CO2 and temperature uniformity, along with a user controllable humidity system that is more accurate and responsive to door openings than a traditional water pan humidity system.

The SC026H humidity system provides less evaporation of culture media and eliminates a potential source for contamination. Contamination is minimized by the heated glass door and an antimicrobial copper drain.

The triple-paned glass door allows for easy viewing of samples without having to open the incubator door, so samples can thrive in the stable environment within the chamber.

A gentle horizontal airflow heating system is used for quick temperature recovery after door openings. This airflow system obtains superior temperature control with minimal drying or disturbance of sample conditions. The CO2 is accurately controlled with an IR sensor, providing overall CO2 stability.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Temperature Uniformity +/- 0.5°C at 37°C
- Temperature Range Ambient + 5°C to 50°C
- CO2 Range 0 - 20%
- Infrared (IR) CO2 Sensor Accuracy +/- 0.1%
- CO2 Recovery Rate < 5 Minutes
- Relative Humidity Up to 95%
- Temperature & CO2 Alarms



| Humidified CO2 Incubators | Model Number | |
|-----------------------------|--------------|---------------------|
| | Details | SC026H |
| Exterior Dimensions (wxdxh) | Inches | 39.3 x 37.0 x 78.5 |
| | cm | 99.7 x 94.0 x 199.4 |
| Chamber Dimensions (wxdxh) | Inches | 30.7 x 26.0 x 56.5 |
| | cm | 78.1 x 66.0 x 143.5 |
| Incubator Chamber Capacity | cu ft | 26.1 |
| | L | 740 |
| Number of Shelves | Included | 6 |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.



SHEL LAB Humidity Test Cabinets provide a controlled environment for a wide range of industrial and biotechnology testing applications. This line is designed to duplicate a natural condition, which allows testing the limitations of a sample when exposed to various temperature and moisture fluctuations.

Microprocessor controls maintain temperature and humidity in approximate ranges of 35-70°C and 40-95%RH, respectively. An extra large water jacket minimizes condensation inside the chamber and supports optimum temperature uniformity.

Humidity is controlled by utilizing a low-pressure water vapor generator injecting saturated water vapor into the recirculating air duct. This process

2 Year
Limited
Warranty!

| Humidity Cabinets | Details | Model Number | |
|---|----------|----------------------|-----------------------|
| | | Medium (SHC10) | Large (SHC28) |
| Exterior Dimensions (wxdxh) | Inches | 44.3 x 32.8 x 57.0 | 42.5 x 37.0 x 85.0 |
| | cm | 112.4 x 83.2 x 144.8 | 108.0 x 94.0 x 215.9 |
| Chamber Dimensions (wxdxh) | Inches | 30.0 x 21.0 x 30.0 | 30.2 x 26.0 x 62.0 |
| | cm | 76.2 x 53.3 x 76.2 | 76.8 x 66.0 x 157.4 |
| Incubator Chamber Capacity | cu ft | 10 | 28 |
| | L | 309 | 799 |
| Temp. Range | Celsius | 40°C to 70°C | Ambient +10°C to 70°C |
| Temp. Uniformity | Celsius | +/-0.5°C at 37°C | +/-0.5°C at 37°C |
| Relative Humidity | Percent | Ambient + 10% to 95% | Ambient + 10% -to 95% |
| Number of Shelves | Included | 3 | 6 |
| All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time. | | | |

Humidity Chambers

Refrigerated



SHEL LAB Humidity Test Cabinets provide a controlled environment for a wide range of industrial and biotechnology testing applications. This line is designed to duplicate a natural condition, which allows testing the limitations of a sample when exposed to various temperature and moisture fluctuations. These humidity test chambers incorporate a refrigeration system that dramatically increases the operational range of the cabinet

Microprocessor controls maintain temperature and humidity in approximate ranges of 10-70°C and 40-95%RH, respectively. An extra large water jacket minimizes condensation inside the chamber and supports optimum uniformity conditions.

A low-pressure water vapor generator, injecting saturated water vapor into the recirculating air duct,

controls chamber humidification. This process is preferable to steam generation because steam introduces additional heat to the chamber atmosphere, which then compromises temperature control.

**2 Year
Limited
Warranty!**

| Humidity Cabinets Refrigerated | Details | Model Number | |
|---|----------|----------------------|----------------------|
| | | Medium (SHC10R) | Large (SHC28R) |
| Exterior Dimensions (wxdxh) | Inches | 44.3 x 32.8 x 57.0 | 42.5 x 37.0 x 85.0 |
| | cm | 112.4 x 83.2 x 144.8 | 108.0 x 94.0 x 215.9 |
| Chamber Dimensions (wxdxh) | Inches | 30.0 x 21.0 x 30.0 | 30.2 x 26.0 x 62.0 |
| | cm | 76.2 x 53.3 x 76.2 | 76.8 x 66.0 x 157.4 |
| Incubator Chamber Capacity | cu ft | 10 | 28 |
| | L | 309 | 799 |
| Temp. Range | Celsius | 40°C to 70°C | 10°C to 70°C |
| Temp. Uniformity | Celsius | +/- 0.5°C at 37°C | +/- 0.5°C at 37°C |
| Relative Humidity | Percent | Ambient + 10% to 95% | Ambient + 10% to 95% |
| Number of Shelves | Included | 3 | 6 |
| <p>All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.</p> | | | |



Shaking incubators, also known as environmental shakers, are often used for cell culturing, cell aeration, and solubility studies. In addition to stable temperature conditions, they use an orbital agitation at variable speeds to affect the growth of cell cultures.

This is why the SHEL LAB SI6 and SI6R Shaking Incubators have adjustable stroke lengths to accommodate various cells and applications. This gives flexibility in adjusting the speed and orbit to meet each application.

Most models come equipped with a universal shaking platform, independent alarms, and microprocessor controls for temperature and speed adjustment.

Applications include:

- Cell Cultures
- Cell Aeration
- Microbiology
- Increasing Solubility Rates
- Metabolism Studies
- Bacterial Cultures
- Bacteriology

Full Selection of Accessories

The easily removable rotation platform is included with each SHEL LAB unit.



Flask holders and accessories can be arranged in several combinations on the platform according to what best suits your application.

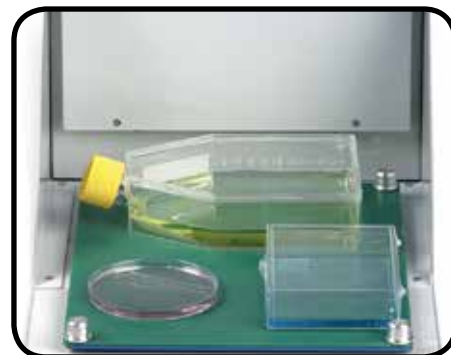
Shaking Incubators

Mini Shaker

The SHEL LAB Mini Shaker is the most compact shaking incubator in its class. The standard platform (included) features a non-slip, rubber coated surface, ideal for tissue culture flasks, petri dishes and staining trays. A convenient universal magnetic platform is also available for use with Erlenmeyer flasks and test tube racks. The unique, magnetic attachment method is the easiest way to instantly change between flask clamps of different sizes.



Flask holders and accessories can be arranged in several combinations on the platform according to what best suits your application.



A constant monitoring system verifies and maintains accuracy through the duration of the program. Sophisticated over-temperature and over-speed controls ensure long life, safety and sample integrity.



Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Orbital-Shaking Speed Alarm
- Digital Timer

| Shaking Incubator | Details | Model Number |
|---|---------|--|
| | | SSI2 |
| Exterior Dimensions (wxdxh) | Inches | 11.3 x 15.8 x 11.5 |
| | cm | 28.6 x 40.1 x 29.3 |
| Chamber Dimensions (wxdxh) | Inches | 11.0 x 13.2 x 8.0 |
| | cm | 27.9 x 33.6 x 20.3 |
| Incubator Chamber Capacity | cu ft | 0.5 |
| | L | 13 |
| Temperature Range | Celsius | 5°C + Ambient to 60°C Increments of 0.1°C |
| Temperature Uniformity | Celsius | +/- 0.25% |
| Orbital-Shaking Range | RPM | 30-300 |
| Timer Functionality | Minutes | 1-999 |
| <p>All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.</p> | | |

Shaking Incubators

Bench Model

The SSI3 has a transparent hood that lifts up via a hydraulic system, so it can function in tight places. All of our shaking incubators feature stainless steel interiors which provide excellent durability and an easy-to-clean surface. Each unit has an easy-to-read LED display. The rotation platform is included with each unit and is self-centering for easy installation. The SSI3 includes a convenient, user adjustable counterbalance that provides optimal load flexibility



Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Orbital-Shaking Speed Alarm
- Digital Timer
- Adjustable Orbit

2 Year
Limited
Warranty!

| Shaking Incubator | Details | Model Number |
|--|---------|-----------------------|
| | | SSI3 |
| Exterior Dimensions (wxdxh) | Inches | 22.0 x 25.5 x 28.0 |
| | cm | 55.9 x 64.8 x 71.2 |
| Chamber Dimensions (wxdxh) | Inches | 19.0 x 18.0 x 16.5 |
| | cm | 48.2 x 45.7 x 41.9 |
| Incubator Chamber Capacity | cu ft | 3.3 |
| | L | 92 |
| Temperature Range | Celsius | 8°C + Ambient to 60°C |
| Temperature Uniformity | Celsius | +/-0.5°C at 37°C |
| Orbital-Shaking Range | RPM | 30-400 |
| Timer Functionality | Minutes | 1-999 |
| All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time. | | |

Shaking Incubators

Floor Model



Versatile and Robust

Shaking incubators, also known as environmental shakers, are often used for cell culturing, cell aeration, and solubility studies. In addition to stable temperature conditions, they use an orbital agitation at variable speeds to affect the growth of cell cultures.

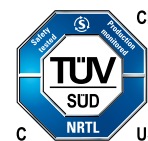
This is why the SHEL LAB Shaking Incubators have adjustable stroke lengths to accommodate various cells and applications. This gives flexibility in adjusting the speed and orbit to meet each application. The SSI5R-HS achieves speeds up to 850 RPMs.

All models come equipped with a universal shaking platform, independent alarms, and microprocessor controls for temperature and speed adjustment.

Precise Temperature Control - Superior Uniformity

- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Orbital-Shaking Speed Alarm

**2 Year
Limited
Warranty!**



| Shaking Incubators | Details | Model Number | | |
|-----------------------------|----------|-----------------------|--------------------------|---------------------|
| | | SSI5 Floor | SSI5R Floor Refrigerated | SSI5R-HS High RPM |
| Exterior Dimensions (wxdxh) | Inches | 28.5 x 29.5 x 40.5 | 28.5 x 29.5 x 40.5 | 28.5 x 29.5 x 40.5 |
| | cm | 72.4 x 75.0 x 102.9 | 72.4 x 75.0 x 102.9 | 72.4 x 75.0 x 102.9 |
| Chamber Dimensions (wxdxh) | Inches | 19.0 x 20.5 x 22.5 | 19.0 x 20.5 x 22.5 | 19.0 x 20.5 x 22.5 |
| | cm | 48.2 x 52.0 x 57.1 | 48.2 x 52.0 x 57.1 | 48.2 x 52.0 x 57.1 |
| Incubator Chamber Capacity | cu ft | 5 | 5 | 5 |
| | L | 144 | 144 | 144 |
| Temperature Range | Celsius | 8°C + Ambient to 60°C | 10°C to 60°C | 10°C to 60°C |
| Temperature Uniformity | Celsius | +/-0.8°C at 37°C | +/-0.8°C at 37°C | +/-0.8°C at 37°C |
| Platform Capacity | lbs (kg) | 22 (10) | 22 (10) | 22 (10) |
| Orbital-Shaking Range | RPM | 30-400 | 30-400 | 30-850 |
| Timer Functionality | Minutes | 1-999 | 1-999 | 1-999 |
| Number of Shelves | Included | 1 | 1 | 1 |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology. We reserve the right to change specifications at any time.

Shaking Incubators

Large Capacity



The SHEL LAB SSI10 delivers all the features you appreciate in the SHEL LAB Shaking Incubator line, with even greater load capacity. The unit performs from 30-400 RPM's with a smooth, quiet oscillation. The door of the SSI10 is designed with hydraulic pistons making it easy to lift during loading and unloading.

These state of the art orbital shaking incubators feature a universal shaker platform, which accommodates a wide range of flask clamps, test tube racks and micro titer plate clamps. To support the loads over many years of use, four load-bearing positions are incorporated for optimal weight distribution.

For maximum load flexibility, the unique counter-balanced weighting system is adjustable to accommodate off-center loads and varying capacities.

Precise Temperature Control - Superior Uniformity

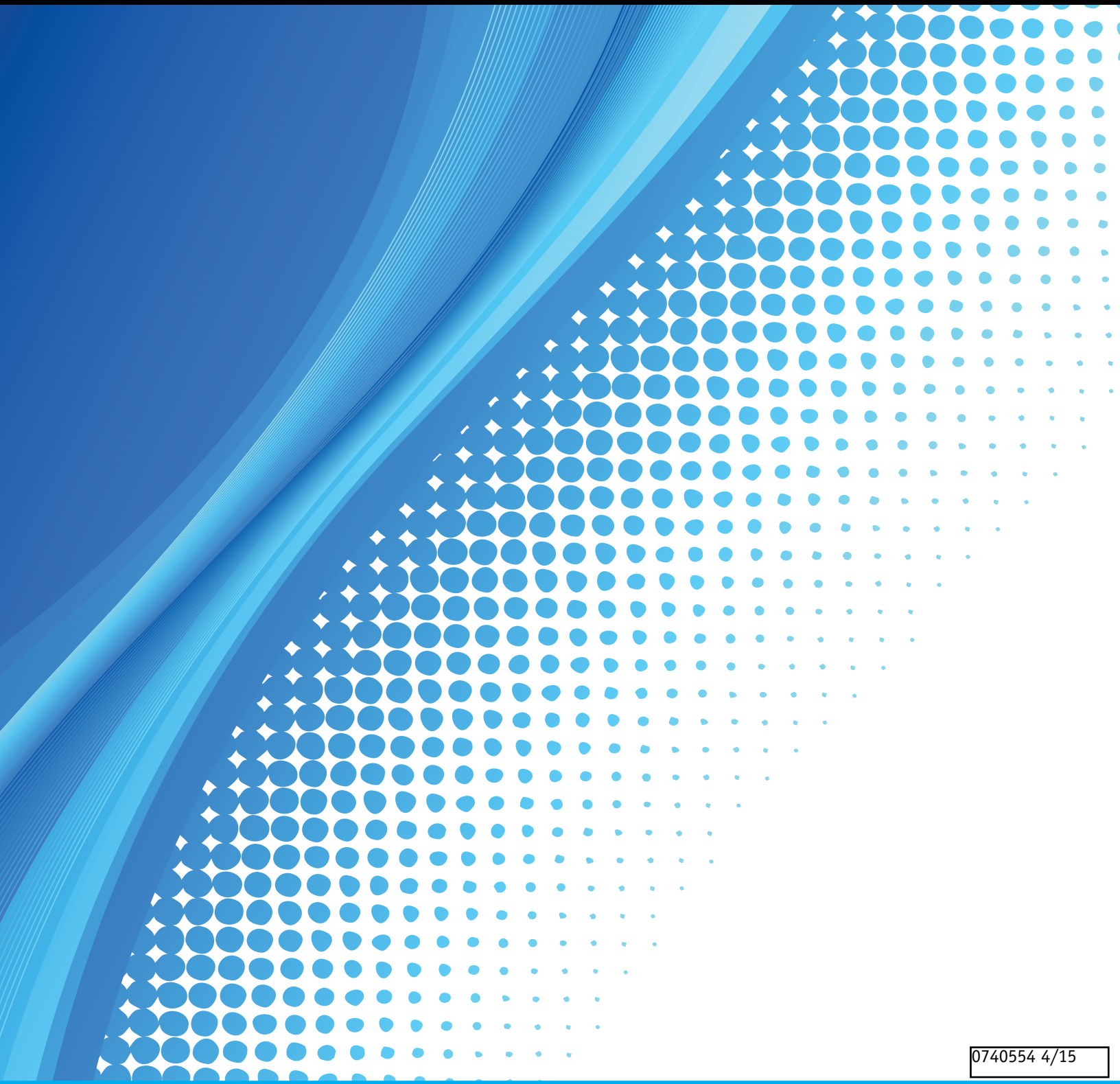
- Independent Over Temperature Thermostat
- Over Temperature Alarm
- Orbital-Shaking Speed Alarm

**2 Year
Limited
Warranty!**



| Shaking Incubators | Details | Model Number | |
|-----------------------------|----------|-----------------------|---------------------|
| | | SSI10 Standard | SSI10R Refrigerated |
| Exterior Dimensions (wxdxh) | Inches | 55.0 x 33.5 x 33.5 | 55.0 x 33.5 x 33.5 |
| | cm | 139.7 x 85.1 x 85.1 | 139.7 x 85.1 x 85.1 |
| Chamber Dimensions (wxdxh) | Inches | 35.5 x 25.5 x 19.7 | 35.5 x 25.5 x 19.7 |
| | cm | 90.1 x 64.7 x 50.1 | 90.1 x 64.7 x 50.1 |
| Incubator Chamber Capacity | cu ft | 10.3 | 10.3 |
| | L | 293 | 293 |
| Platform Dimensions | Inches | 32 x 22 x 3 | 32 x 22 x 3 |
| | cm | 81 x 56 x 7 | 81 x 56 x 7 |
| Temperature Range | Celsius | 8°C + ambient to 60°C | 10°C - 60°C |
| Temperature Uniformity | Celsius | +/-0.5°C at 37°C | +/-0.5°C at 37°C |
| Platform Weight Capacity | lbs (kg) | 45 (20) | 45 (20) |
| Orbital-Shaking Range | RPM | 30-400 | 30-400 |
| Timer Functionality | Minutes | 1-999 | 1-999 |

All specifications are determined by using average values on standard equipment at an ambient temperature of 25°C (77°F) and line voltages within +/-10% of unit type (115V/230V). Temperature specifications follow DIN 12880 methodology.
We reserve the right to change specifications at any time.



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