

**C O<sub>2</sub> Incubators**  
THE COMPLETE LINE



With chamber conditions this perfect, you'll make your own cells jealous.

Constant thinking.





## Constant Thinking

We were thinking. We are always thinking. Always trying to find new ways to give you top-of-the-line products. We have a history of firsts in the industry. But our heads aren't in the past; they're in the future, thinking up other firsts. That's how we keep temperature and pressure constant. That's how our products endure heavy use. And that's how we plan to stay—forever supplying products of constant thinking.

## Breadth of Line

We realize the demanding world of the laboratory professional requires equipment that you can rely on and trust to satisfy specific applications. That's why we offer the broadest matrix of sizes, styles and technology from which to choose. At Sheldon Manufacturing, we don't think laboratory procedure or workflow should change to accommodate the incubator, so we offer models that facilitate a high level of performance and provide optimum growing conditions. This selection, fueled by constant thinking, is what sets us apart.

### Contamination Control

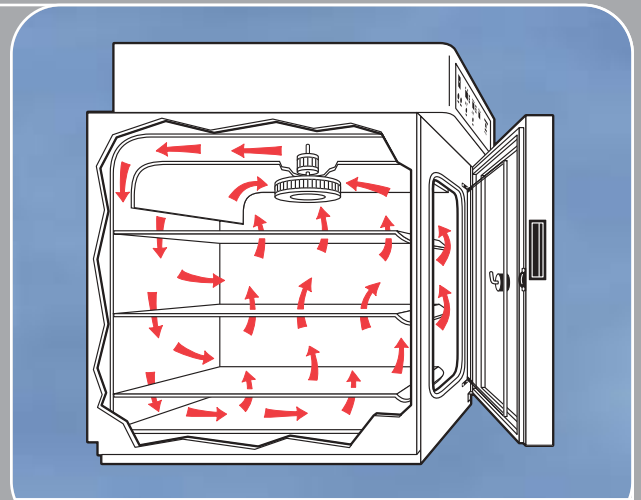
Contamination control is a direct result of our cabinet design. Beginning with the first successful in vitro fertilization in the USA in 1970, we have designed contamination control features into our incubators.

The chamber atmosphere is purified with Sheldon Manufacturing's High Efficiency Particulate Air Filtration System (HEPA). Our patented HEPA filter is housed in copper to prevent trapped particulates from reproducing. The inclusion of a copper blower wheel leaves contamination nowhere to hide. Even chamber cleanup is a breeze with our Quick Clean Shelf System, the removable gasket and the coved corner chamber.

Condensation is virtually eliminated. We heat the inner glass door via outer door heaters. The copper CO<sub>2</sub> gas line is heated and filtered to prevent the cold CO<sub>2</sub> gas from condensing when mixed with warm chamber air.



Look for this icon, indicating HEPA technology is utilized in a particular model.



HEPA filter and air flow



coved corners



Quick Clean Shelf System

### Validation

- Record Calibration of CO<sub>2</sub> or Temperature
- Establish CO<sub>2</sub> Recovery Rates
- Determine Time for Temperature Stability
- Monitor if and when your unit goes into alarm conditions

Enhance your efforts to achieve regulatory approval for your tissue or cell cultures. Sophisticated data communications easily provide conformance to regulatory standards. Our incubators allow the chambers to be continuously monitored either directly or connected to an external alarm or data collection system via analog output, 4-20 mA output, RS232 output or parallel printer port. Program the integrated real-time clock to work in concert with your incubation program. (see specification tables for specific models).



outputs to data logger

## You say:

- I want [easy setup and quick CO<sub>2</sub> recovery](#).
- I have a [small space](#) and a big concern about contamination.
- We want the [best growth conditions](#).
- We've just opened our lab and [funds are tight](#).
- I need [production capacity](#).
- Give me all the [facts and figures](#), so I can compare models.
- I need [add-ons](#) for my SHEL LAB incubator.
- Tell me more [about Sheldon Manufacturing](#).

## Our advice to you:

- This technology is in our Air Jacket model. [Pages 4](#).
- See our Personal Water Jacket unit on [page 5](#).
- Extremely dependable Water Jacket models. [Pages 6-8](#).
- Our Water Jacket Incubators offer great values. [Pages 5-8](#).
- Turn to [page 9](#) for our Extra Large Capacity models.
- The specification table is on [pages 10-11](#).
- You'll find accessories on [pages 10-11](#).
- Thanks for asking. A brief version of our story is on the [back](#).

When evaluating how well made an incubator is, consider the fundamentals. Our state of the art, automated fabrication equipment achieves tight tolerances and produces "superior parts," making welding and cabinet construction solid and durable. We use oversized motors and bearings for longer motor life and extra cooling fans to minimize effects of heat. Our non-contact heating elements help prevent burn-out and their wattage matches the chamber size to minimize temperature overshoot and stress on controllers, increasing longevity and precision.



powder coated paint



precision welding



complete inspection



automation

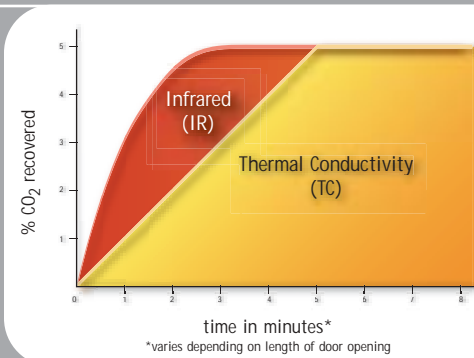


Look for these icons, indicating the type of CO<sub>2</sub> sensor technology employed in each model.

Our Infrared sensor is ideal for applications where door openings occur frequently because recovery is unaffected by changes in temperature or humidity. Continuously sampling chamber atmosphere through a spectrophotometer flow cell, the IR sensor checks wavelength and rectifies an out-of-control condition. CO<sub>2</sub> recovery is rapid and changes in CO<sub>2</sub> concentration are made within seconds.

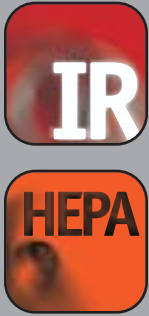


Our Thermal Conductivity sensor uses humidity and CO<sub>2</sub>'s density to determine CO<sub>2</sub> concentration. Air with CO<sub>2</sub> is dense; therefore, it has greater cooling capacity. Chamber air is passed over a heated thermistor and how quickly it cools the thermistor tells the sensor how much CO<sub>2</sub> is in the air. Complete CO<sub>2</sub> recovery depends on humidity levels. Sheldon Manufacturing improves on our highly reliable TC sensor by coating the thermistor to protect it from the acidic environment present in most humid chambers with CO<sub>2</sub>.



# Air Jacket CO<sub>2</sub> Incubators

Models: 5215 | 5215-2



The Air Jacket CO<sub>2</sub> Incubators were designed to minimize contamination and be operational within hours of installation.

## Fast and Easy Setup

This slim, lightweight incubator can be easily repositioned to reduce downtime and is well-suited for multiple users.

## Effective Contamination Fighters

Three temperature control settings (main chamber, external door and front liner) minimize condensation and facilitate superior temperature uniformity. This fine tuning capability allows you to accurately select temperature settings, providing stable and optimal culturing conditions. Our unique HEPA filtration system removes 99.97% of all airborne microbes and isolated particulates 0.3 microns or larger. The patented copper housing around the filter is designed to destroy microbes entrapped in the filter, couple this with the copper blower wheel, and you have greatly improved your odds in the fight against contamination. Additional anti-contamination features include a stainless steel chamber with easy-to-clean covered corners and our Quick Clean Shelf System, which can be quickly disassembled without tools. You can worry less about spills thanks to our Non-Tip Shelf System.

## Unparalleled Controls

A separate digital keypad with large, bright LEDs (for CO<sub>2</sub> and temperature) is highly visible on the front panel. These intelligent microprocessors constantly monitor and adjust program settings and allow calibration of CO<sub>2</sub> and temperature. From the digital keypad you can also mute audible alarms with the push of a button. The redundant safety system for temperature helps protect your sample from overheating. A door switch that automatically turns off the gas when the door is opened also helps conserve your CO<sub>2</sub>. The sample port makes CO<sub>2</sub> calibration efficient and easy.



# Personal Water Jacket CO<sub>2</sub> Incubators

Models: 2123 | 2123-2

Keep tight control over your samples and bench space with the SHEL LAB Personal Water Jacket CO<sub>2</sub> Incubators.



2123

## New Dimensions

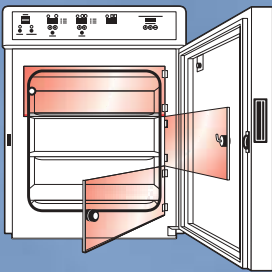
This unit's compact size presents a small profile to conserve valuable lab bench space. The six-gallon water jacket and intelligent microprocessor present the benefits of contamination control and superior temperature uniformity for even the most demanding in vitro incubations. Precision is maintained with easy to operate push-button calibration of both temperature and CO<sub>2</sub>, and audio/visual alarms alert you to high/low temperature and CO<sub>2</sub> conditions. Modular controls and backup systems ensure confidence for incubating valuable samples, providing the dependable assurance you expect from a SHEL LAB incubator.



## Contamination Control

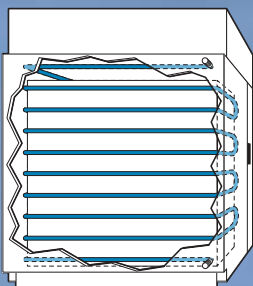
The Personal Water Jacket CO<sub>2</sub> incubator was designed to minimize the risk of contamination. Copper is used in the CO<sub>2</sub> sample port, CO<sub>2</sub> feed lines, water jacket, internal blower wheel, and the housing of our patented HEPA filter. This design addition serves to inhibit the growth of foreign microbes. Cleanup is a breeze because of the stainless steel chamber and the removable door gasket. SHEL LAB's Personal CO<sub>2</sub> Incubator provides optimum growth conditions that aren't usually found in incubators this size.

## Tri-Section Door



Minimize contamination. A tri-section inner glass door is available for select Water Jacket models. The three separate inner glass doors allow for selective chamber openings. This feature helps to minimize the introduction of airborne contaminants to the chamber since the size of the access portal is minimized. Another example of constant thinking. (Available on models 2424, 2323, 2406 and 2306.)

## Cooling Coils



Give your incubator the ability to achieve below-ambient temperature settings. Expand the SHEL LAB Water Jacket CO<sub>2</sub> Incubator's applications with a copper tubing coil placed inside the water jacket. Now insect and/or fish studies are possible with the use of this accessory, when purchased at the time of order. It's also helpful where high-temperature ambient conditions jeopardize temperature uniformity. Acting like a refrigeration system, this coil requires a cold liquid source (a separate chiller) to lower the water jacket temperature. The Incubator's heaters work against the cold water jacket temperature to maintain a programmed set point inside the chamber. (Available on 2424, 2323, 2123, 2406, 2306.)

# Water Jacket CO<sub>2</sub> Incubators

Models: 2424 | 2424-2 | 2424/2 | 2424/2-2



High production and high capacity are what set these Water Jacket units apart.

## Size Matters

Designed for dependable in vitro incubation of valuable cells, tissues and organisms on a large scale, the expansive chamber (supplied with six shelves) offers the most cubic footage (6.7 cu. ft.) available in like size incubators. The large, 22 gallon water jacket envelopes the incubator chamber providing superior insulation, which is designed to virtually eliminate prime targets of condensation. This helps minimize contamination and cold spots. Also, the water jacket is surrounded by insulation and a third wall, which makes these units ideal for maintaining precise conditions. Our unique HEPA filtration system removes airborne microbes and isolated particulates.

## Unparalleled Precision

A microcomputer continually samples temperature in the water jacket and the chamber, making sensitive adjustments to the multiple, non-contact heaters, delivering temperature uniformity. The infrared CO<sub>2</sub> sensor is not dependent on temperature or humidity levels, which allows for rapid recovery and efficient CO<sub>2</sub> consumption. The integral CO<sub>2</sub> change-over switch enables connection to two CO<sub>2</sub> tanks, making interruption of the CO<sub>2</sub> supply unlikely. The humidity display allows you to monitor the humidity levels in the chamber..

## Validation / Documentation

When validation is a must, go to the unit's data logger for answers. Its programmable outputs will transmit display data via RS232 or direct to a printer or to a remote alarm system. You can easily maintain precise time/date stamped records of all incubator functions as often as necessary, from one minute to 99 minutes.

## Cleanliness Matters

Even large incubators should be easy to clean and keep clean, which is why we use 100% stainless steel chambers and shelves, removable inner door gaskets complete with guards to prevent damage when inserting shelves, our Quick Clean Shelf System, and easily removable top plenum and blower system.



2424/2



2424

# Large Water Jacket CO<sub>2</sub> Incubators

Models: 2323 | 2323-2 | 2323/2 | 2323/2-2



2323



2323/2

With all the same benefits to the demanding researcher as its companion on the previous page, this unit adds reliability and value to a highly advanced CO<sub>2</sub> Incubator.

## Reliability and Value

Utilizing proven Thermal Conductivity CO<sub>2</sub> sensing technology that lab professionals have relied on for decades, these units offer value in addition to dependability and consistency.

## Built to Last

With triple wall construction that enhances temperature uniformity and durability, modular microcomputer controls that enable greater precision and reliability and superior quality control, you get a state of the art incubator that is durable, reliable and long-lasting.

## Full Featured, Costs Less

Increased capacity and precision control are only part of what makes this incubator an asset to your work. The possibility of foreign bacteria contamination is minimized by extensive use of copper in the CO<sub>2</sub> line, water jacket, sample port and HEPA filter housing. Sensors with alarms continuously monitor temperature, CO<sub>2</sub>, water jacket level and even programmed events via the integral communications system. Removable top plenum and door gasket combine with the Quick Clean Shelf System to make cleanup a breeze. Our patented HEPA filter system and in-line CO<sub>2</sub> filters purge airborne particulates. The unit has a durable powder coated paint that helps protect your investment.



## Basic Water Jacket CO<sub>2</sub> Incubators

Models: 2406 | 2406-2 | 2406/2 | 2406/2-2 | 2306 | 2306-2 | 2306/2 | 2306/2-2



The broad selection of SHEL LAB CO<sub>2</sub> Incubators continues with these models that combine reliability, accuracy and stable temperature control to achieve extraordinary value for demanding environments.

### Incubate at a Lower Cost

Our Basic Water Jacket Incubators are designed and manufactured to accommodate tight budgets, while maintaining fundamental needs in quality and precision. Combine this with the microprocessor controllers, heated outer door and tempered-glass inner door, and these units provide temperature uniformity, while minimizing cold spots that lead to condensation and ultimately, contamination. Despite having no humidity display, the humidity level inside the chamber is maintained at approximately 95%.

### Safety in Backup and Alarm Systems

The audible/visual alarms for temperature and CO<sub>2</sub> respond to out-of-tolerance conditions, but the absence of a communication system means warnings are not automatically recorded. They do offer an independent over-temperature safety control to protect samples from overheating. An optional CO<sub>2</sub> tank switch/alarm is the best way to prevent prematurely exhausting the gas supply (see accessories on page ten).

### Convenience of Selection

Committed to providing the most selection to suit your needs, these SHEL LAB units offer a choice in CO<sub>2</sub> sensor technology. All other features being the same, choose between the IR sensor for faster CO<sub>2</sub> recovery or the TC sensor for value.

# Extra Large Capacity CO<sub>2</sub> Incubators

Models: 2460 | 2460-2 | 2440 | 2440-2 | 2428 | 2428-2

These models feature large incubation space without consuming excessive floor space. When production of cell lines or large scale tissue culture requires a high level of dependability, count on these units. Understanding the importance of verification for these applications, a 4-20 mA output continuously transmits CO<sub>2</sub> and temperature levels. Choose from three sizes.



## Versatility and Outstanding Uniformity

Whether using tissue culture flasks, cell factories or roller bottle rack systems, these units have voluminous space, four interior electrical outlets and a reinforced floor with special flip out ramps to facilitate movement of equipment such as roller racks.

Utilizing advanced engineering to create forced air circulation throughout the chamber, these units provide unparalleled temperature uniformity that helps all samples to incubate at the same rate. The air jacket facilitates quick and easy setup and an optional caster platform adds mobility to the long list of benefits these units provide.

## Uncompromising Control

Automated performance is at your fingertips because the micro-processor controls continuously survey and adjust CO<sub>2</sub> and temperature levels with enhanced accuracy, sensors with audible/visual alarms monitor set points. The IR CO<sub>2</sub> sensor's immediate reaction to changes in CO<sub>2</sub> levels allow for fast recovery even in chambers this size. A CO<sub>2</sub> shutoff occurs when the door opens to conserve gas consumption.

## Superior Construction

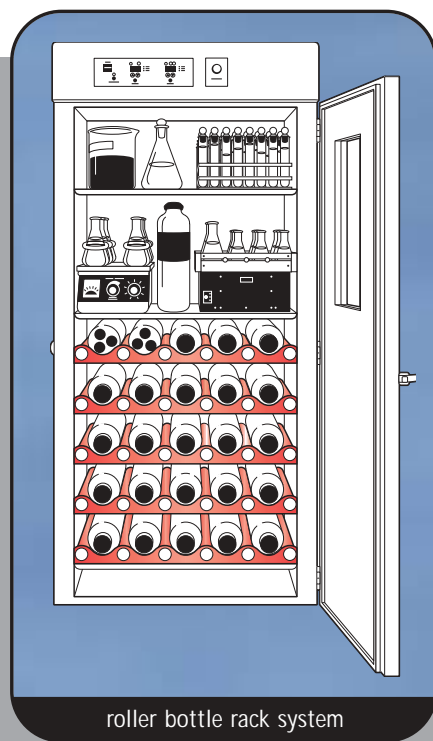
Our stainless steel interior and powder coated exterior provide the durability you have come to expect from a SHEL LAB incubator. Each unit must pass our rigid quality control inspection before shipment, which is your assurance of reliability in the laboratory.



2440



40 cu. ft. (1133 liter) capacity



roller bottle rack system

Available in 60, 40, and 28 cu. ft. capacities.

Model Number	5215 5215-2	2123 2123-2	2424 2424-2	2424/2 2424/2-2	2323 2323-2	2323/2 2323/2-2
Chamber capacity	160 liters / 5.7 cu. ft.	50 liters / 1.8 cu. ft.	190 liters / 6.7 cu. ft.*		190 liters / 6.7 cu. ft.*	
Temperature range	ambient +5°C to 60°C	ambient +5°C to 60°C	ambient +5°C to 60°C		ambient +5°C to 60°C	
Temperature uniformity	+/-0.35°C (at 37°C)	+/-0.25°C (at 37°C)	+/-0.25°C (at 37°C)		+/-0.25°C (at 37°C)	
Temperature display resolution	+/-0.1°C	+/-0.1°C	+/-0.1°C		+/-0.1°C	
CO <sub>2</sub> sensor	Infrared	Thermal Conductivity	Infrared		Thermal Conductivity	
CO <sub>2</sub> range	0-20%	0-20%	0-20%		0-20%	
CO <sub>2</sub> display resolution	+/-0.1%	+/-0.1%	+/-0.1%		+/-0.1%	
CO <sub>2</sub> uniformity	+/-0.1% @ 5%	+/-0.1% @ 5%	+/-0.1% @ 5%		+/-0.1% @ 5%	
CO <sub>2</sub> recovery rate to 5%	< 3 minutes	< 3 minutes	< 3 minutes		< 5 minutes	
CO <sub>2</sub> pressure regulated tank switch	No/No	No/No	Yes/Yes		Yes/Yes	
Humidity range	up to 95%	up to 95%	up to 95%		up to 95%	
Humidity display resolution	No	No	Yes		Yes	
Alarm Conditions Temperature CO <sub>2</sub>	+/-1°C +/-1%	+/-1°C +/-1%	+/-1°C +/-1%		+/-1°C +/-1%	
Communications Alarm contact RS 232 Parallel port 4-20 mA output	No No No Yes	N/A	Yes Yes Yes No		Yes Yes Yes No	
Shelves supplied	3	3	6*		6*	
Shelves maximum	16	8	16*		16*	
Exterior dimensions (wxdxh) (Single Chamber)	65 x 69 x 96 cm / 25 x 27 x 38 in.	53 x 53 x 64 cm / 21 x 21 x 25 in.	67 x 67 x 101* cm / 26 x 26 x 40* in.		67 x 67 x 101* cm / 26 x 26 x 40* in.	
Interior dimensions (wxdxh) (Single Chamber)	49 x 50 x 65 cm / 19 x 20 x 26 in.	38 x 39 x 36 cm / 15 x 15 x 14 in.	52 x 51 x 72* cm / 20 x 20 x 28* in.		52 x 51 x 72* cm / 20 x 20 x 28* in.	
Electrical requirements Watts / Amps - 120V Watts / Amps - 220V Cycle / Phase	600 / 5 600 / 3 50:60 Hz / Single	600 / 5 800 / 3 50:60 Hz / Single	550 / 5 750 / 3.5 50:60 Hz / Single		550 / 5 750 / 3.5 50:60 Hz / Single	
Fitting sizes (diameter) Access port CO <sub>2</sub> sample port CO <sub>2</sub> inlet port Fill port Siphon port	2.54 cm / 1 in. 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. N/A N/A	2.54 cm / 1 in. 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. 2.54 cm / 1 in. 1.27 cm / 1/2 in.	2.54 cm / 1 in. 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. 2.54 cm / 1 in. 1.27 cm / 1/2 in.		2.54 cm / 1 in. 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. 2.54 cm / 1 in. 1.27 cm / 1/2 in.	
Shipping Weight	91 kg / 250 lbs.	82 kg / 180 lbs.	127 kg / 310 lbs.*		127 kg / 310 lbs.*	
Supplied with unit	Polyurethane tubing complete with 1/2 inch fitting for connection to a regulator and a 0.1 micron filter; a 6 foot power cord and leveling feet					

Please note: -2 indicates 220V version of each model.

/2 indicates stacked unit in which some specifications double (see \*).

Specifications subject to change without notice.

Accessories

Name	Number	Description
CO <sub>2</sub> regulator	101550	for regulating and adjusting CO <sub>2</sub> gas pressure
CO <sub>2</sub> tank switch	2002/2002-2	automatically switch from one tank to the other
Fyrite CO <sub>2</sub> calibration	103306	CO <sub>2</sub> gas analyzer
HEPA filter	2800517	collects airborne contaminants for a super clean environment

pg. 8		pg. 8		pg. 9		pg. 9		pg. 9	
2406 2406-2	2406/2 2406/2-2	2306 2306-2	2306/2 2306/2-2	2460 2460-2	2440 2440-2	2428 2428-2			
190 liters / 6.7 cu. ft.*	190 liters / 6.7 cu. ft.*	190 liters / 6.7 cu. ft.*	190 liters / 6.7 cu. ft.*	1700 liters / 60 cu. ft.	1133 liters / 40 cu. ft.	793 liters / 28 cu. ft.			
ambient +5°C to 60°C	ambient +5°C to 60°C	ambient +5°C to 60°C	ambient +5°C to 60°C	ambient +5°C to 60°C	ambient +5°C to 60°C	ambient +5°C to 60°C			
+/-0.25°C (at 37°C)	+/-0.25°C (at 37°C)	+/-0.25°C (at 37°C)	+/-0.25°C (at 37°C)	+/-0.5°C (at 37°C)	+/-0.5°C (at 37°C)	+/-0.5°C (at 37°C)			
+/-0.1°C	+/-0.1°C	+/-0.1°C	+/-0.1°C	+/-0.1°C	+/-0.1°C	+/-0.1°C			
Infrared	Infrared	Thermal Conductivity	Thermal Conductivity	Infrared	Infrared	Infrared			
0-20%	0-20%	0-20%	0-20%	0-20%	0-20%	0-20%			
+/-0.1%	+/-0.1%	+/-0.1%	+/-0.1%	+/-0.1%	+/-0.1%	+/-0.1%			
+/-0.1% @ 5%	+/-0.1% @ 5%	+/-0.1% @ 5%	+/-0.1% @ 5%	+/-0.1% @ 5%	+/-0.1% @ 5%	+/-0.1% @ 5%			
< 3 minutes	< 3 minutes	< 5 minutes	< 5 minutes	< 5 minutes	< 3 minutes	< 3 minutes			
No/No	No/No	No/No	No/No	No/No	No/No	No/No			
up to 95%	up to 95%	up to 95%	up to 95%	up to 95%	up to 95%	up to 95%			
No	No	No	No	No	No	No			
+/-1°C +/-1%	+/-1°C +/-1%	+/-1°C +/-1%	+/-1°C +/-1%	+/-1°C +/-1%	+/-1°C +/-1%	+/-1°C +/-1%			
N/A	N/A	N/A	N/A	No No No Yes	No No No Yes	No No No Yes			
6*	6*	6*	6*	6	6	6			
16*	16*	16*	16*	30	30	30			
67 x 67 x 101* cm / 26 x 26 x 40* in.	67 x 67 x 101* cm / 26 x 26 x 40* in.	67 x 67 x 101* cm / 26 x 26 x 40* in.	67 x 67 x 101* cm / 26 x 26 x 40* in.	124 x 104 x 201 cm / 49 x 41 x 79 in.	104 x 86 x 224 cm / 41 x 34 x 88 in.	94 x 91.5 x 188 cm / 37 x 36 x 74 in.			
52 x 51 x 72* cm / 20 x 20 x 28* in.	52 x 51 x 72* cm / 20 x 20 x 28* in.	52 x 51 x 72* cm / 20 x 20 x 28* in.	52 x 51 x 72* cm / 20 x 20 x 28* in.	109 x 89 x 173 cm / 43 x 35 x 68 in.	89 x 66 x 193 cm / 35 x 26 x 76 in.	84 x 68 x 158 cm / 33 x 27 x 62 in.			
550 / 5 750 / 3.5 50:60 Hz / Single	550 / 5 750 / 3.5 50:60 Hz / Single	550 / 5 750 / 3.5 50:60 Hz / Single	550 / 5 750 / 3.5 50:60 Hz / Single	1800 / 15 2200 / 10 50:60 Hz / Single	1800 / 15 2200 / 10 50:60 Hz / Single	1800 / 15 2200 / 10 50:60 Hz / Single			
2.54 cm / 1 in. 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. 2.54 cm / 1 in. 1.27 cm / 1/2 in.	2.54 cm / 1 in. 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. 2.54 cm / 1 in. 1.27 cm / 1/2 in.	2.54 cm / 1 in. 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. 2.54 cm / 1 in. 1.27 cm / 1/2 in.	2.54 cm / 1 in. 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. 2.54 cm / 1 in. 1.27 cm / 1/2 in.	N/A 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. N/A N/A	N/A 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. N/A N/A	N/A 0.95 cm / 3/8 in. 0.95 cm / 3/8 in. N/A N/A			
127 kg / 310 lbs.*	127 kg / 310 lbs.*	127 kg / 310 lbs.*	127 kg / 310 lbs.*	432 kg / 950 lbs.	386 kg / 850 lbs.	227 kg / 500 lbs.			

This material provides information to explain the principles of the goods. It does not supercede, cancel, or change provisions in the Sales Acknowledgement, or any contract of sale, or instruction of use.

**Accessories**

Name	Number	Description
Stacking adapter	9490534	to connect and secure stacked units (available in models 5215 & 5215-2)
Caster platform for 5215	9000537	for easier cleaning and relocation
Caster platform for all 6.7 cu. ft. models	9000538	for easier cleaning and relocation
Cooling coil kit assembly	9710557	for achieving below-ambient temperatures (accessory chiller required)
Tri-section door	9521004	minimize introduction of airborne contaminants

## Our Story

Sheldon Manufacturing, Inc. was founded in 1970 with the goal of being a world class leader in the manufacture of constant temperature equipment for the laboratory. Our focus, for more than thirty years, has been designing and manufacturing scientific, research and medical equipment. Over the years, our reputation has grown as an innovator of dependable and reliable incubators designed for the demanding environment of the laboratory professional. Many of our innovations have been adopted as industry standards. Sheldon Manufacturing's integrity and commitment to quality have earned the trust of life science researchers and technicians the world over. SHEL LAB brand products combine craftsmanship and technology with continuous innovation to assist you in answering the call of science and research.



holes punched in metal are exact



our combination punch/laser cuts accurate clean edges



metal formed with precision

## Manufacturing

The foundation of every reliable and durable CO<sub>2</sub> Incubator produced by Sheldon Manufacturing, Inc. begins with our specialized metal manufacturing facility. The FMC (Flexible Manufacturing Cell) and Combination Laser-Punch utilize state of the art automation to convert raw materials into component parts twenty-four hours, seven days a week. These modern machines achieve such tight tolerances that welders receive near perfect parts, which minimizes the need for secondary operations, increasing efficiencies and decreasing costs. Robotics then take over to form parts, because programmed allowances for metal expansion help maintain exact specifications.

Our highly skilled work force, many of whom are second- and third-generation associates, take over where the automated machines leave off. Their work is tested pursuant to our Total Quality Program, which rewards efficiency. The people of Sheldon understand the demanding environment our products face. They are committed to delivering the highest quality product and service possible. Even so, every product undergoes a final multi-step quality inspection before shipment and records are kept on every serial number, so each associate can be accountable for their work.

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Constant thinking.

