

SHEL LAB LIFE SCIENCE PRODUCTS

Sheldon Manufacturing, Inc.®



CO₂ Incubators, Shaking Incubators, Water Baths, Lab Incubators, Refrigerated Incubators, Large Capacity Incubators

Sheldon Manufacturing, Inc. Life Science Brochure

Constant thinking.



A Product of
SHELDON MFG. INC.

Table of Contents

Sheldon Manufacturing, Inc.



Sheldon Manufacturing's SHEL LAB Life Science Products have been evolving for forty years.

The SHEL LAB line of Temperature and Environmental Control Equipment addresses a broad scope of Research, Industrial, and Clinical Laboratories and are as innovative as the industries that use them.

Table of Contents

General Purpose Incubator	Pg. 3-6
Large Capacity/Reach-In Models, 28 & 40 cu.ft.	Pg. 3
Bench Top, Double-Door, Under Counter, & Stackable Models	Pg. 4
Refrigerated (BOD) Models	Pg. 5
Thermoelectric Cooled Models	Pg. 6
CO₂ Incubators (All with Infrared (IR) CO₂ Sensors)	Pg. 7-10
Large Capacity/Reach-In, Air Jacket Models, 28, 40 & 60 cu.ft.	Pg. 7
5215 Air Jacket Standard Model	Pg. 8
2406 & 3500 Series, Water Jacket Models	Pg. 9
3552 High Heat CO ₂ Incubator	Pg. 10
Digital Water Baths	Pg. 11-12
General Purpose Water Baths, 2, 6, 14, & 20 Liter	Pg. 11
Reciprocating & Speciality Water Baths	Pg. 12
Orbital-Shaking Incubator	Pg. 13-16
Bench Top Models	Pg. 13
Standard & Refrigerated Floor, High-Speed, & Stackable Models	Pg. 14
Standard & Refrigerated Large-Capacity, Stackable	Pg. 15
Accessories	Pg. 16

Constant Thinking. Constant Thinking. Constant Thinking.

General Purpose Incubator

General Purpose, Large Capacity, and Refrigerated



General Purpose Incubators

Large Capacity Models: RI28 | RI40



Large Capacity RI28

Optimized Floor Space

- Reach-In and Extra Large
- Horizontal Air Flow
- Four (4) Interior Electrical Outlets
- Prewired Panel for Chart Recorder
- Tempered Glass Viewing Window

Models RI28 and RI40 incubators provide 30.8 & 38.4 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.

Large Capacity/ Reach-In General Purpose Incubators	Model Number		
	110-120V	RI28	RI40
	220-230V	RI28-2	RI40-2
	Details	Large Capacity	Large Capacity
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
Chamber Capacity	cu ft	30.8	38.6
	L	872	1092
Temperature Range	Celsius	Ambient +8 to 70°C	Ambient +8 to 70°C
Temperature Uniformity	Celsius	+/-0.8°C at 37°C	+/-0.8°C at 37°C
Over Temperature Protection & Alarm	Included	Yes	Yes
Interior Outlet	Number	Four	Four
Access Port	Number	One	One

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com



Forced Airflow

The SHEL LAB air jacket design and heated outer door allows for uniform heat throughout our incubators.

General Purpose Incubators

General Purpose Models: GI2 | GI6 | GI7 | GI11 | GI12

Precise Temperature Control - Superior Uniformity

- Microprocessor Control
- Interior Glass Door with Radius Corner
- Unique Warm Air Jacket Design
- Heated Outer Door
- Interior Electrical Outlet
- Access Port
- Seam Welded Panels & Doors

Five strategically placed heating elements, including one in the heated outer door, deliver superior temperature uniformity in SHEL LAB general purpose laboratory incubators. The unique SHEL LAB air jacket design eliminates hot spots.

Our microprocessor controller achieves exceptional temperature control with no overshoot. Setpoint and actual chamber temperature are digitally displayed. Temperature calibration is easily performed with the touch pad control. An independent, secondary controller provides the added safety and security of over temperature protection.



Interior Electrical Outlet



Throughwall Access Port

General Purpose GI6



Adjustable, No Tip Shelf Design

General Purpose GI11

General Purpose Laboratory Incubators, Bench Top, Under Counter & Stackable	Model Number					
	110-120V	GI2	GI6	GI7	GI11	GI12
	220-230V	GI2-2	GI6-2	GI7-2	GI11-2	GI12-2
	Details	Bench Top	Floor Model	Under Counter	Double Doors	Dual/Stacked
Exterior Dimensions (wxdxh)	Inches	22.0 x 22.0 x 27.3	25.5 x 27.3 x 38.0	30.0 x 31.8 x 32.3	42.5 x 27.0 x 38.0	25.5 x 27.3 x 76.0
	cm	55.9 x 55.9 x 69.3	64.8 x 69.3 x 96.6	76.2 x 80.7 x 82.0	108.0 x 68.6 x 96.6	64.8 x 69.3 x 193.0
Chamber Dimensions (wxdxh)	Inches	15.0 x 15.0 x 15.0	19.2 x 20.0 x 25.7	23.7 x 24.0 x 19.7	36.2 x 20.0 x 25.7	19.2 x 20.0 x 25.7
	cm	38.1 x 38.1 x 38.1	48.9 x 50.8 x 65.4	60.3 x 60.9 x 50.1	92.0 x 50.8 x 65.4	48.9 x 50.8 x 65.4
Incubator Chamber Capacity	cu ft	2.0	5.7	6.5	10.8	5.7 (each)
	L	55	162	184	306	162 (each)
Temperature Range	Celsius	Ambient +8 to 70°C	Ambient +8 to 70°C	Ambient +8 to 70°C	Ambient +8 to 70°C	Ambient +8 to 70°C
Temperature Uniformity	Celsius	+/-0.35°C at 37°C	+/-0.35°C at 37°C	+/-0.35°C at 37°C	+/-0.35°C at 37°C	+/-0.35°C at 37°C
Over Temperature Protection	Yes/No	Yes	Yes	Yes	Yes	Yes
Temperature Alarm	Yes/No	Yes	Yes	Yes	Yes	Yes
Interior Outlet	Number	One	One	One	One	One
Access Port	Yes/No	Yes	Yes	Yes	Yes	Yes
Number of Shelves	Supplied	2	3	2	6	3 (per chamber)
	Maximum	6	12	9	12	12 (per chamber)

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com

Refrigerated Incubators

Refrigerated Models: LI5 | LI15 | LI20 | LI27 | LIFLY

Refrigerated incubators are ideal for testing B.O.D of sewage and wastewater, as well as other low temperature and room temperature applications.

- Microprocessor Control
- Fan Assisted/Forced-Air Circulation
- LED Display of Setpoint and Chamber Temperature
- Interior Electrical Outlet

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.



Refrigerated Incubators	Model Number					
	110-120V	LI5	LI20	LI27	LI15 Diurnal Plant Chamber	LIFLY
	220-230V	LI5-2	LI20-2	LI27-2	LI15-2 Diurnal Plant Chamber	LIFLY-2
	Details	Under Counter	Large Capacity	Large Capacity	Diurnal Chamber	Drosophila
Exterior Dimensions (wxdxh)	Inches	24.0 x 21.0 x 33.8	34.3 x 34.5 x 77.5	36.5 x 35.8 x 77.5	34.5 x 34.5 x 77.5	34.3 x 34.5 x 77.5
	cm	61.0 x 53.4 x 85.8	87.0 x 87.7 x 196.9	92.8 x 90.9 x 196.9	87.7 x 87.7 x 196.9	87.0 x 87.7 x 196.9
Chamber Dimensions (wxdxh)	Inches	16.0 x 12.0 x 21.5	27.0 x 20.0 x 56.5	30.0 x 26.5 x 54.0	27.0 x 20.0 x 55.5	27.0 x 20.0 x 56.5
	cm	40.6 x 30.4 x 54.6	68.5 x 50.8 x 143.5	76.2 x 67.3 x 137.1	68.5 x 50.8 x 140.9	68.5 x 50.8 x 143.5
Incubator Chamber Capacity	cu ft	2.4	20	27	16.5	20
	L	68	564	763	467	564
Temperature Range	Celsius	0°C to 45°C (at 20°C ambient)	0°C to 40°C (at 20°C ambient)	0°C to 45°C (at 20°C ambient)	0°C to 45°C (at 20°C ambient)	0°C to 29°C
Temperature Uniformity	Celsius	+/-0.5°C at 20°C	+/-0.5°C at 20°C	+/-0.5°C at 20°C	+/-0.5°C at 20°C	
Over Temperature Protection	Yes/No	Yes	Yes	Yes	Yes	Yes
Interior Outlet	Number	110V - 1 / 220V - 2	110V - 1 / 220V - 2	110V - 1 / 220V - 2	110V - 1 / 220V - 2	110V - 1 / 220V - 2
Number of Shelves	Included	2	4	6	4	8
Bottle Capacity	Number	62	345	540	317	4 Fly racks per shelf

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com

Refrigerated Incubators

Thermoelectric Cooled Models: LI6P | LI20P

Using innovative thermoelectric cooling technology, the LI20P eliminates the need for a refrigeration compressor. 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.

- Microprocessor Control System
- P.I.D. Temperature Control
- Interior Electrical Outlet
- Fan Assisted/Forced-Air Circulation
- TUV Certified



Thermoelectric Cooled Incubator LI20P



SHEL LAB
Energy Savings Calculator

How much will a new LI20P SHEL LAB B.O.D. Thermoelectric Cooled Incubator save you in annual energy costs?

Visit www.shellab.com to learn more.



Thermoelectric Cooled Incubator LI6P

A water treatment laboratory manager reports "retirement" of two, two-year old, compressor based BOD incubators units to use a single SHEL LAB LI20P incubator exclusively. The better temperature uniformity in the SHEL LAB LI20P permits the full use of chamber capacity. Previously, two compressor based BOD incubators were required to accommodate all of this water treatment lab's samples. Replacing two compressor BOD incubators with one SHEL LAB LI20P incubator not only saved energy* it also saved laboratory space!

*Power savings for the unit is based on side by side comparison with a new compressor based LI20. Power draw and energy consumption based on startup, stabilization to 20C, 24/7 operation. Additional savings can be attained from AC load reduction as the LI20P generates far less heat.

Refrigerated Incubators	Model Number		
	110-120V 220-230V	LI6P LI6P-2	LI20P LI20P-2
	Details	Under Counter	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
Temperature Range	Celsius	15°C to 40°C (at 20°C ambient)	15°C to 40°C (at 20°C ambient)
Temperature Uniformity	Celsius	+/-0.5°C at 20°C	+/-0.5°C at 20°C
Over Temperature Protection	Yes/No	Yes	Yes
Temperature Alarm	Yes/No	No	No
Interior Outlet	Number	110V - 1 / 220V - 2	110V - 1 / 220V - 2
Number of Shelves	Included	2	5
Bottle Capacity	Number	120	300

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com

SHEL LAB CO₂ Incubators

The Complete Line



Large Capacity CO₂ Incubators

Models: 2428 | 2440 | 2460

Sheldon Manufacturing offers the most extensive equipment line of large capacity, reach-in CO₂ incubators with the SHEL LAB 30, 40, and 60 cubic feet chamber models. These are all available with or without interior electrical outlets (without optional).

These large capacity models offer excellent temperature uniformity, stability and all have Infrared (IR) CO₂ sensors that provide superb CO₂ recovery. *The IR sensor has a seven-year, limited warranty.*

While the SHEL LAB 2428, 2440, and 2460 CO₂ incubators are ideal for roller bottle apparatus applications, they can also be used for other high volume tissue culture and microbiology applications.



Air Jacketed Incubator 2440

- Maximum chamber capacity without consuming excessive floor space.
- Unique air flow design to optimize temperature and CO₂ uniformity.
- Large viewing window with option for dual windows or solid door.



Ideal for use with Roller Bottle Apparatus

Standard CO₂ Incubators

Models: 5215 | 5230/Dual Stacked

Fast and Easy Set-up

This slim, lightweight incubator air jacketed CO₂ 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. Additionally, the heated CO₂ inlet port reduces potential for condensation which could promote contamination within or around the inlet port. Our unique HEPA filtration system removes 99.97% of all airborne microbes and isolated particulates 0.3 microns or larger.

Copper Shelving Option

Protect your cells! Minimize the threat of surface contamination with copper's natural bactericidal and fungicidal properties:

- Long-lasting
- Reduces aerial contamination
- Minimal maintenance
- Effective natural antimicrobial agent



unique design keeps shelf from tipping



fully adjustable shelf slides



copper shelving option



convenient keyhole design

Single and Dual Stacked, Air Jacket, CO ₂ Incubators, Infrared (IR) CO ₂ Sensor	Model Number					
	110-120V	2428	2440	2460	5215	5230
	220-230V	2428-2	2440-2	2460-2	5215-2	5230-2
	Details	Large Capacity	Large Capacity	Large Capacity	Standard	Dual/Stacked Chambers
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	27.3 x 28.0 x 37.8	27.3 x 28.0 x 75.6
	cm	100.4 x 85.8 x 191.2	108.0 x 87.7 x 221.0	129.6 x 113.7 x 203.2	69.3 x 71.2 x 95.9	69.3 x 71.2 x 191.8
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	20.5 x 19.7 x 21.5	20.5 x 19.7 x 21.5 each
	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	52.0 x 50.1 x 54.6	52.0 x 50.1 x 54.6 each
Incubator Chamber Capacity	cu ft	31	40	58	5	10 (5 each)
	L	879	1125	1641	142	284
CO ₂ Range	%	0-20%	0-20%	0-20%	0-20%	0-20%
CO ₂ Sensor Accuracy	at 5%	+/-0.1%	+/-0.1%	+/-0.1%	+/-0.1%	+/-0.1%
CO ₂ Recovery Rate	to 5%	<5 minutes	<5 minutes	<5 minutes	<5 minutes	<5 minutes
Relative Humidity	at 37°C	N/A	N/A	N/A	Up to 95%	Up to 95%
Temperature Range	Celsius	Ambient +8°C to 60°C	Ambient +8°C to 60°C	Ambient +8°C to 60°C	Ambient +8°C to 60°C	Ambient +8°C to 60°C
Temperature Uniformity	Celsius	+/-0.5°C (at 37°C)	+/-0.5°C (at 37°C)	+/-0.5°C (at 37°C)	+/-0.25°C (at 37°C)	+/-0.25°C (at 37°C)
Over Temperature Protection	Yes/No	Yes	Yes	Yes	Yes	Yes
Temperature Alarm	Yes/No	Yes	Yes	Yes	Yes	Yes
CO ₂ Alarm	Yes/No	Yes	Yes	Yes	Yes	Yes
Interior Outlet	Number	4	4	4	NA	NA
Number of Shelves	Included	6	6	6	3	3 each

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com

Water Jacket CO₂ Incubators

Models: 3503/Benchtop | 2406, 3517/Floor Model | 3524/Dual Stacked

SHEL LAB CO₂ Incubator Limited Warranty

- 5 Year Parts (Labor Included in the US)
- 7 Year IR Sensor
- Lifetime Water Jacket Chamber

HEPA Filter with a “Bacteriostatic” copper cage to trap particulate matter and reduce potential for chamber contamination.

Infrared (IR) CO₂ Sensors

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



2406

Model 2406 is the low cost CO₂ incubator alternative



3503

3517

3524



Single and Dual Stacked, Water Jacket, CO ₂ Incubators, Infrared (IR) CO ₂ Sensor	Model Number				
	110-120V	2406	3503	3517	3524
	220-230V	2406-2	3503-2	3517-2	3524-2
	Details	Economy	Bench Top	Floor Model	Dual/Stacked Chambers
Exterior Dimensions (wxdxh)	Inches	26.0 x 26.3 x 40.3	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	66.0 x 66.7 x 102.3	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	20.2 x 19.7 x 25.2	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	51.4 x 50.1 x 64.1	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	6	1.5	5	10 (5 each)
	L	165	42	143	286
CO ₂ Range	%	0-20%	0-20%	0-20%	0-20%
CO ₂ Sensory Accuracy	at 5%	+/-0.1%	+/-0.1%	+/-0.1%	+/-0.1%
CO ₂ Recovery Rate	to 5%	<5 minutes	<5 minutes	<5 minutes	<5 minutes
Relative Humidity	at 37°C	Up to 80%	Up to 95%	Up to 95%	Up to 95%
Temperature Range	Celsius	Ambient +8 to 60°C	Ambient +8 to 60°C	Ambient +8°C to 60°C	Ambient +8°C to 60°C
Temperature Uniformity	Celsius	+/-0.2°C at 37°C	+/-0.2°C at 37°C	+/-0.2°C (at 37°C)	+/-0.2°C (at 37°C)
Over Temperature Protection	Yes/No	Yes	Yes	Yes	Yes
Temperature Alarm	Yes/No	Yes	Yes	Yes	Yes
CO ₂ Alarm	Yes/No	Yes	Yes	Yes	Yes
Number of Shelves	Included	3	3	3	3

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com. Specifications subject to change without notice.

High Heat Decontamination CO₂ Incubator

Model: 3552

The model 3552 is the newest addition to the SHEL LAB 3500 series CO₂ incubator line. Featuring a dry heat decontamination cycle, the model 3552 has the ability to maintain 180°C for 120 minutes. This time/temperature relationship satisfies all global standards for decontamination.

Another important and unique feature is that it is not necessary to remove the IR CO₂ sensor prior to activating the decontamination process. This is a more user friendly approach and eliminates potential damage to the sensitive IR sensor. This is decontamination at its easiest and most effective.

Other features include a USB interface for software communication and a pre-heated copper CO₂ gas inlet. This exclusive feature prevents condensation and reduces potential sites for contamination to form. Precise temperature control is achieved via an advanced microprocessor. An independent over temperature safety controller is also integral to the design.



SHEL LAB 3552 Features

- Dry heat decontamination at 180°C for 120 min.
- Pre-heated Copper CO₂ Gas Inlet for Increased Temperature Uniformity
- No Handling of the IR Sensor
- Extensive Warranty

	5 Year Limited Warranty	IR Sensor Guarantee	Water Jacket Guarantee	Limited Warranty
3503 3503-2	yes	yes	yes	
3517 3517-2	yes	yes	yes	
3524 3524-2	yes	yes	yes	
3552 3552-2	yes	yes		
5215 5215-2	yes	yes		
2428 2428-2		yes		2 Years
2440 2440-2		yes		1 Year
2460 2460-2		yes		1 Year
2406 2406-2	yes	yes	yes	

(International Warranty Varies)

Incubators, Infrared (IR) CO ₂ Sensor	Model Number	
	110-120V 220-230V	3552 3552-2
High Heat Decontamination		
Exterior Dimensions (wxdxh)	Inches	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	169
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

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com

Digital Water Baths

Digital, Specialty, and High Temperature Baths



Laboratory Water Baths

Digital Water Baths: W2M | W6M | W14M | W20M | W614M

The SHEL LAB high-performance water baths are accurate, easy to use, safe and durable. The water bath design incorporates the attractive SHEL LAB appearance, a drip free cover holster, and pocket handles so users can easily transport the water bath.

A microprocessor achieves precise temperature control regardless of how the unit is loaded. Calibration is performed with the convenient, front panel touch pad.

- Easy-to-Clean Stainless Steel Tank
- Pocket Handles for Easy Lifting
- Recessed Heating Element Prevents "Burnout"
- Unique SHEL LAB Design Eliminates "Hot Spots"



Dual Chamber Water Bath	Model Number		
	110-120V	W614M	
	220-230V	W614M-2	
Exterior Dimensions (wxdxh)	Inches	24.3 x 19.3 x 8.8	
	cm	61.6 x 48.9 x 22.3	
		Chamber/Tank 1 Chamber/Tank 2	
Bath Chamber Dimensions (wxdxh)	Inches	11.7 x 6.0 x 6.0	11.7 x 13.0 x 6.0
	cm	29.8 x 15.2 x 15.2	29.8 x 33.0 x 15.2
Tank Capacity	L	7	15
Temperature Range	Celsius	Ambient +5 to 80°C	
Temperature Uniformity	Celsius	+/-0.2° at 37°C	
Over Temperature Protection	Yes/No	Yes	
Stainless Steel Gabel Cover(s)	Yes/No	Yes - Two (2) Included	

General Purpose Water Baths	Model Number				
	110-120V	W2M	W6M	W14M	W20M
	220-230V	W2M-2	W6M-2	W14M-2	W20M-2
	Chambers	Single (1)	Single (1)	Single (1)	Single (1)
Exterior Dimensions (wxdxh)	Inches	15.0 x 12.0 x 8.8	15.3 x 12.0 x 9.0	15.0 x 19.0 x 9.0	15.0 x 25.3 x 9.0
	cm	38.1 x 30.5 x 22.3	38.8 x 30.5 x 22.9	38.1 x 48.3 x 22.9	38.1 x 64.2 x 22.9
Bath Tank Dimensions (wxdxh)	Inches	11.7 x 5.7 x 2.5	11.7 x 6.0 x 6.0	11.7 x 13.0 x 6.0	11.5 x 19.5 x 6.2
	cm	29.8 x 14.6 x 6.3	29.8 x 15.2 x 15.2	29.8 x 33.0 x 15.2	29.2 x 49.5 x 15.8
Tank Capacity	L	2	7	15	23
Temperature Range	Celsius	Ambient +5 to 80°C	Ambient +5 to 80°C	Ambient +5 to 80°C	Ambient +5 to 80°C
Temperature Uniformity	Celsius	+/-0.2°C at 37°C	+/-0.2° at 37°C	+/-0.2° at 37°C	+/-0.2° at 37°C
Over Temperature Protection	Yes/No	Yes	Yes	Yes	Yes
Stainless Steel Gabel Cover(s)	Yes/No	Yes - One Included	Yes - One Included	Yes - One Included	Yes - One Included

SHEL LAB digital Water baths are durable and dependable. Five different models are available, each with a variety of safety and convenience features.

*Tank is excluded from the 2 year warranty.
For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com
Specifications subject to change without notice.

Laboratory Water Baths

Reciprocating Water Baths: WS17 | WS27 Specialty Water Baths: WPC65 | WPC95

The Reciprocating Water Baths deliver precise temperature control and a smooth, reciprocal shaking motion. The independent over temperature safety offers backup protection should the main controller fail. Easy-to-read LED's display temperature and oscillation speed. An independent oscillator control allows the bath to also be used for regular constant temperature water bath applications.

- Cover Included
- Microprocessor Controls
- Universal Platform Tray Included
- Independent Oscillation and Temperature Controls
- Adjustable Stroke Length for Robust or Mild Agitation Capabilities



*Tank is excluded from the 2 year warranty.



SHEL LAB Special application water baths boast the same features as our other high-performance models, such as: being highly accurate, easy-to-use, rugged, and safe. SHEL LAB WPC water baths include polymer coating for quick cleaning.

WPC65 - Digital Circulating Water Bath

An excellent choice for research and quality control applications

WPC95 - Deep Chamber Water Bath

Designed to accommodate large volumetric samples.

Water Baths	Reciprocating Water Baths			Specialty Water Baths	
	110-120V	WS17	WS27	WPC65	WPC95
	220-230V	WS17-2	WS27-2	WPC65-2	WPC95-2
	Details	Single Chamber (1)		Circulating	Deep Chamber
Exterior Dimensions (wxdxh)	Inches	25.5 x 15.5 x 12.5	37.5 x 14.8 x 12.5	15.0 x 25.5 x 9.0	16.0 x 19.3 x 15.3
	cm	64.8 x 39.4 x 31.8	95.3 x 37.5 x 31.8	38.1 x 64.8 x 22.9	40.7 x 48.9 x 38.8
Bath Chamber Dimensions (wxdxh)	Inches	14.7 x 11.7 x 7.5	27.0 x 12.0 x 7.2	11.5 x 19.5 x 6.2	12.0 x 14.0 x 12.0
	cm	37.4 x 29.8 x 19.0	68.5 x 30.4 x 18.4	29.2 x 49.5 x 15.8	30.4 x 35.5 x 30.4
Tank Capacity	L	17	27	23	30
Temperature Range	Celsius	Ambient +5 to 90°C	Ambient +5 to 90°C	Ambient +5 to 80°C	Ambient +5 to 80°C
Temperature Uniformity	Celsius	+/-0.2°C at 37°C	+/-0.2°C at 37°C	+/-0.2°C at 37°C	+/-0.2°C at 37°C
Over Temperature Protection	Yes/No	Yes	Yes	Yes	Yes
Stainless Steel Gabel Cover(s)	Yes/No	Yes - One Included	Yes - One Included	No - Sold Separate	No - Sold Separate

For high temperature applications of up to 100°C, coated tanks are available for every size water bath.

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com

Shaking Incubators

Benchtop, Floor Models, and Large Capacity



Bench Top Shaking Incubator: The Compact SI4 & SI2 Mini Shaker

Bench Model SI4 Compact and Durable

The SI4 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 SI4 features a small footprint and slim hood design to maximize space and functionality.

- Small Footprint Accommodates Tight Bench Space
- Transparent Hood for Clear Visibility
- Robust, Temperature Resistant Hydraulic Piston
Opens the Hood with Ease and Reliability
- 0.75" Stroke Length



SI2 Mini Shaker

Bench Top SI4

Bench Model SI2 Mini Shaker

The new 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. The 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.

Shaking Incubator Flask Clamp & Test Tube Rack Capacity

Description	Part Number	Size	SI4-SI6	SI9
Flask Clamp	9530528	25 ml	50	107
Flask Clamp	9530529	50 ml	50	107
Flask Clamp	9530530	125 ml	25	53
Flask Clamp	9530531	250 ml	25	35
Flask Clamp	9530526	500 ml	10	23
Flask Clamp	9530532	1000 ml	6	19
Flask Clamp	9530551	2000 ml	4	12
Flask Clamp	9530554	4 liter	4	10
Flask Clamp	9530555	6 liter	2	6
Flask Style	9530553	2.8 liter	2	6
Test Tube Shaking Rack	9751177 (100 Max)	10-13 mm	3	7
Test Tube Shaking Rack	9751178 (80 Max)	14-16 mm	3	7
Test Tube Shaking Rack	9751179 (60 Max)	18-20 mm	3	7
Test Tube Shaking Rack	9751180 (36 Max)	22-25 mm	3	7
Test Tube Shaking Rack	9751181 (29 Max)	50 mm	3	7

*Not to exceed units maximum load capacity

Bench Top Orbital Shaking Incubators	Model Number	
	110V	SI2
	220V	SI2-2
	Details	
	Bench Top	
Exterior Dimensions (wxdxh)	Inches	11.3 x 15.8 x 11.5
	cm	28.6 x 40.1 x 29.3
Platform Dimensions	Inches	9.5 x 11.5
	cm	23.5 x 29.2
Temperature Range	Celsius	Ambient +5 to 60C Increments of 0.1C
Temperature Accuracy	Celsius	+/- 0.1%
Temperature Uniformity	Celsius	+/- 0.25%
Orbital-Shaking Range	RPM	19mm (3/4")

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com

Floor Model Shaking Incubator

Volume, Flexibility, Reliability SI6 | SI6R | SI6R-HS

SI6 and SI6R Versatile and Robust

The SI6 and SI6R have a one inch hermetically sealed double-paned glass viewing window. The SI6R refrigerates via a 1/6-horsepower motorized compressor (produced without CFC's/HCFC's). A through wall access port is standard on the SI6 models.

- Platform Included
- Stackable — Create Additional Capacity Without Losing Floor Space
- Counter-balance Weighting System for Maximum Load Flexibility
- Adjustable Orbit (0.5", 0.75", 1.0") Allows Vigorous or Gentle Shaking
- Side Access Port
- Fluorescent Interior Light for Visibility



Does your application require a higher RPM?

The NEW SI6R-HS achieves speeds of 850 RPMs.

SI6 | SI6R | SI6R-HS

Bench Top and Floor Model Orbital-Shaking Incubators	Model Number				
	110-120V 220-230V Details	SI4 SI4-2 Bench Top	SI6 SI6-2 Floor	SI6R SI6R-2 Floor Refrigerated	SI6RHS SI6RHS-2 High RPM/Refrigerated
Exterior Dimensions (wxdxh)	Inches	22.0 x 25.5 x 28.0	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	55.9 x 64.8 x 71.2	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 18.0 x 16.5	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 45.7 x 41.9	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	3.3	5	5	5
	L	92	144	144	144
Platform Dimensions	Inches	17 x 18 x .75	17 x 18 x .75	17 x 18 x .75	17 x 18 x .75
	cm	44 x 45 x 2	43 x 45 x 2	43 x 45 x 2	43 x 45 x 2
Temperature Range	Celsius	8°C + Ambient to 60°C	10°C + Ambient to 60°C	10°C + Ambient to 60°C	10°C + Ambient to 60°C
Temperature Uniformity	Celsius	+/-0.5°C at 37°C	+/-0.8°C at 37°C	+/-0.8°C at 37°C	+/-0.8°C at 37°C
Platform Weight Capacity	lbs (kg)	18 (8.2)	22 (10)	22 (10)	22 (10)
Orbital-Shaking Range	RPM	30-400	30-400	30-400	30-850
Timer Functionality	Minutes	1-999	1-999	1-999	1-999
Over Temperature Protections	Yes/No	Yes	Yes	Yes	Yes
Temperature Alarm	Yes/No	Yes	Yes	Yes	Yes
Orbital-Shaking Speed Alarm	Yes/No	Yes	Yes	Yes	Yes
Number of Shelves	Included	0	1	1	1

*Refrigerated units are not to be run lower than 10°C.

For a complete list of product specifications, call (800)322-4897 or visit the SHEL LAB website, www.shellab.com

Specifications subject to change without notice.

Large Capacity Shaking Incubator

SI9 | SI9R

The SHEL LAB SI9 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 SI9 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.

- Stackable for Additional Capacity Without Losing Lab Floor Space
- Interior Light for Improved Visibility
- Unit Comes with Shaking Platform
- Easy to Lift Hydraulic Doors
- Safety Features and Alarms Throughout
- Exclusive SHEL LAB Horizontal Air Flow Design for Superior Uniformity



SI9 | SI9R

SI9 | SI9-R Stacking Stands

Description	Part Number	Size
Stacking Stands	SI9-12Stand	12"
	SI9-24Stand	24"



Large Capacity Orbital Shaking Incubators	110-120V 220-230V	Model Number	
		SI9 SI9-2	SI9R SI9R-2
	Details	Standard	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
Over Temperature Protections	Yes/No	Yes	Yes
Temperature Alarm	Yes/No	Yes	Yes
Orbital-Shaking Speed Alarm	Yes/No	Yes	Yes

*Refrigerated units are not to be run lower than 10°C.
For a complete list of product specifications, call (800)322-4897
or visit the SHEL LAB website, www.shellab.com

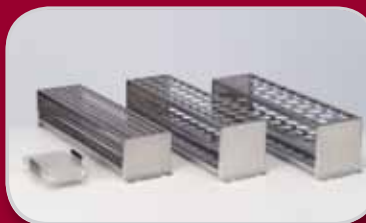
Specifications subject to change without notice.

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.



SHEL LAB Exclusive Features



Our unique lift out tray design with locking latch makes cleaning and loading easy.



A convenient, user adjustable counterbalance provides optimal load flexibility and compensates for off-center loads.

For more information about SHEL LAB products and Sheldon Mfg., Inc. please visit us online at www.shellab.com.

Visit Our Online Community!

Ask questions on our Forum, read about upcoming events on our news & events page, and find out why Sheldon Manufacturing, Inc. is green.

www.shellab.com

SHEL LAB
Constant Thinking.

[Products](#) [Support](#) [About](#) [News & Events](#)

Forums: [Conversations](#) [Categories](#) [Search](#)



Sheldon Mfg - Laboratory Equipment Forum

SHELDON MFG INC.

300 N. 26th Ave. Cornelius, OR 97113
1-800-322-4897 503-640-3000 Fax 503-640-1366

Visit our web site at www.shellab.com

CO₂ Incubators • Vacuum Ovens • Water Baths • Incubators • Ovens
Low Temperature Incubators • Humidity Test Chambers • Shaking Incubators
Bactron Anaerobic Chambers • Hybridization Ovens • Shaking Water Baths

#0740518 3/12

Constant thinking.

SL
SHEL LAB

A Product of
SHELDON MFG. INC.