QUINCY LAB

LAB OVEN SERIES,
MODEL SELECTION GUIDE

Lab Ovens
General Laboratory
Heating

CONTENTS

Lab Oven Series

Investing in an oven means investing in the success and growth of your business. For over 50 years, our ovens have provided top notch performance at an affordable price point.

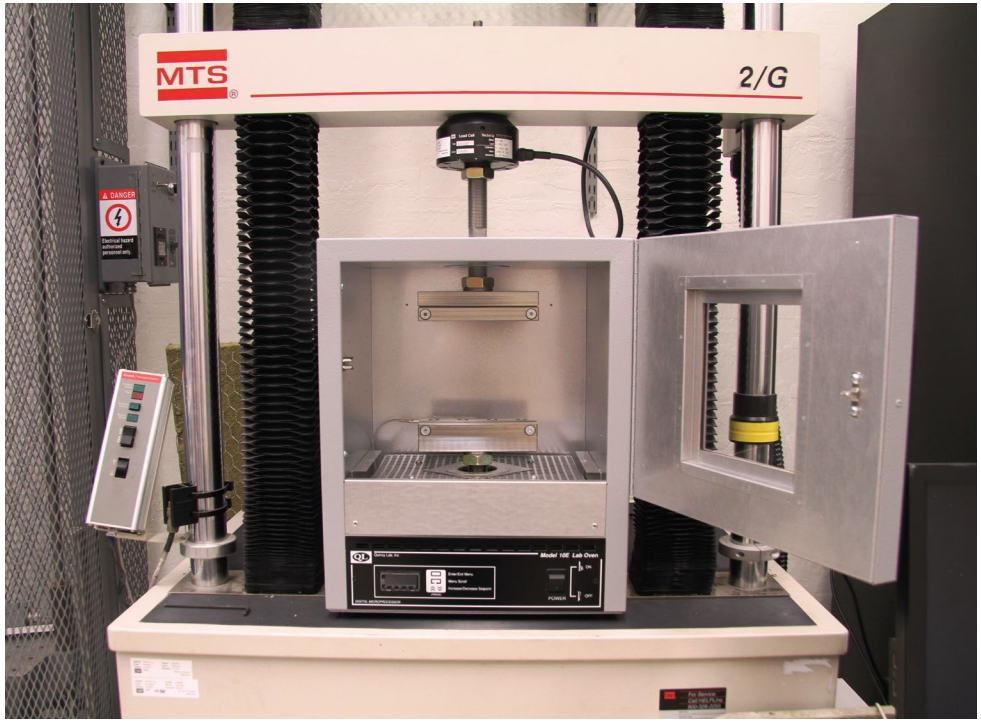
We designed our laboratory ovens to be so durable and reliable that they perform at the highest standards.

Deliver perfectly baked, cured, or dried materials with precise temperature controls, heavy-duty construction, and safety features that reduce downtime and maintenance costs.

Multiple Applications

Our Lab Ovens, reliable out of the box and endlessly customizable, are your perfect partner to deliver a consistent and accurate distribution of heat across multiple applications, including:

- Adhesive Bonding
- Baking
- Curing
- Dehydrating
- Evaporating
- Heat Treatment
- Research and Development
- Sample Testing
- School Laboratory
- Sterilization

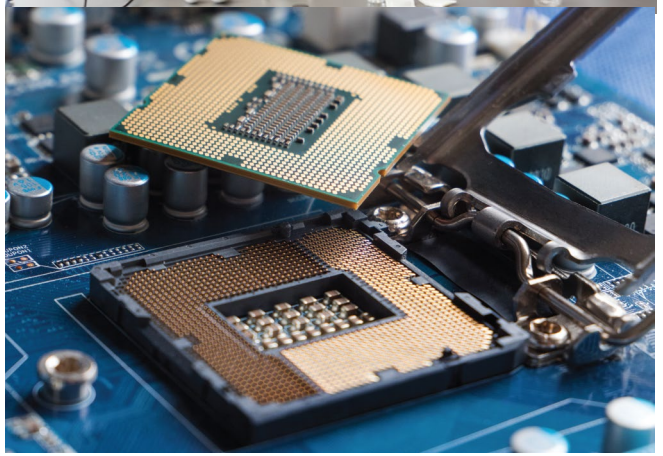


Industry Usage

Designed to meet the diverse needs of numerous industries, our lab ovens have found their place in many sectors. Each sector benefits from their exceptional versatility and functionality, making them an invaluable asset.

Explore the extensive range of applications below and experience the transformative power of our lab ovens in your industry today.

- Manufacturing
- Construction
- Engineering
- Government
- Electronics
- Veterinary Medicine
- Cosmetics
- Medicine
- Education
- Agriculture
- Food and Beverage
- Transportation



'AF' Model Motor

Our powerful blower helps distribute heat evenly throughout the chamber.

High Quality Steel

A high quality aluminized steel interior comes standard.

A stainless steel interior is optional for more aggresive rust-resistant applications.

Powder Coated Paint

This lasting, textured finish protects your investment by resisting everything from chemicals and chipping to fingerprints and fading.

Eco-friendly Mineral Wool Insulation

Our choice of mineral wool insulation greatly reduces thermal conductivity transfer in our ovens. That translates to:

- Greater affordability
- Increased energy efficiency
- Lower exterior wall temperatures

Thermoplastic Door Handles

Our door handles are sturdy enough to thrive in an industrial environment and resist heat to protect your hands.

Digital Controller - or - Analog Controller

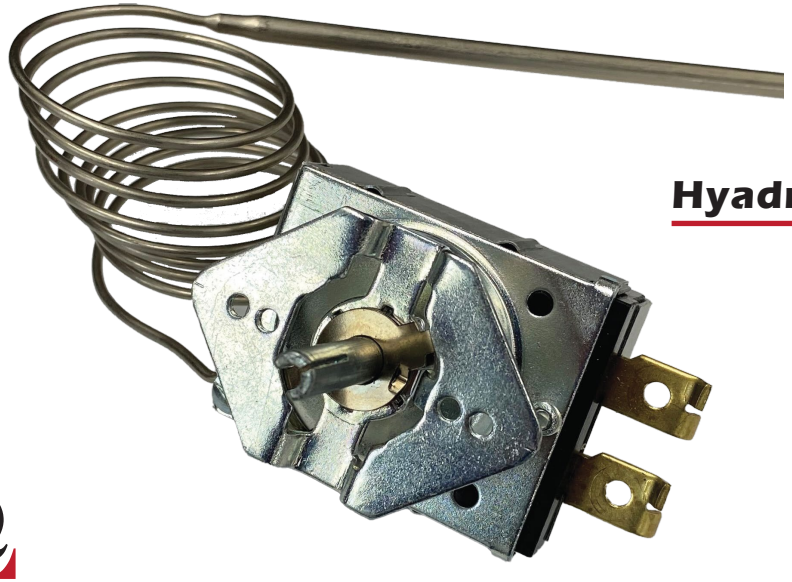
Relaibale, cost effective thermostats or precision and convenience of our digital P.I.D controller.

The Choice is Yours!

Analog Controls

Bi-metal Thermostat

Our reliable, cost-effective thermostats recover temperature quickly after loading and unloading contents, allowing you to continue building, testing, and working without limitations.



Hyadraulic Thermostat

Digital Controls

Standard Digital Controller

Our standard digital controller features advanced performance capabilities for the most complex and critical applications.

With a simple yet powerful interface that is easy to understand, this controller gives you ease of use and surprising accuracy.

Ramp & Soak Controller

You now have the ability to control every aspect of time and temperature inside your chamber.

With five ramp and soak programs and a countdown timer, our digital controller is the most accurate, convenient, and reliable way to control your environment.

Safety & Protection

Manual Reset "Snap Disc"

To protect your contents and work space, our thermal sensor "snap disc" cuts power to the unit in the event of an over-temperature condition.

Digital Controller High-limit Alarm

In addition to the standard snap disc, our digital lab ovens have another layer of protection within the controller: a high-limit alarm that shuts off the heating elements in the event of an over-temperature condition.

Shelves

To ensure uniform heat distribution with long-lasting durability, we use nickel-plated, chemical-resistant, heavy-gauge wire shelves that allow hot air to circulate around the chamber contents.

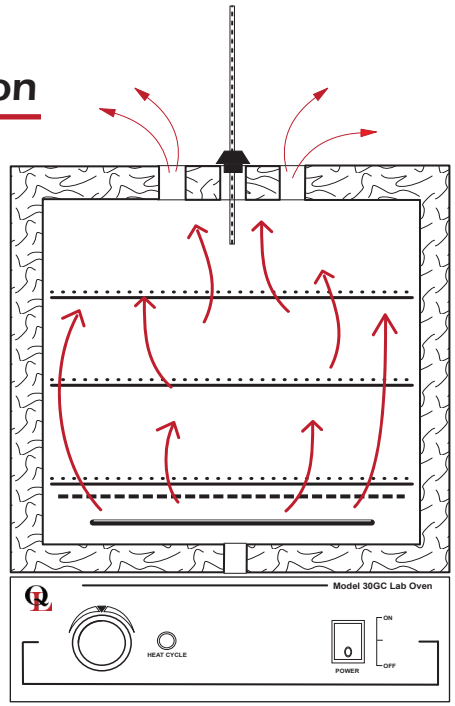
Each shelf can easily support up to 30 lbs. of material, with our 40 series accommodating up to 22 shelves.

Heat Distribution

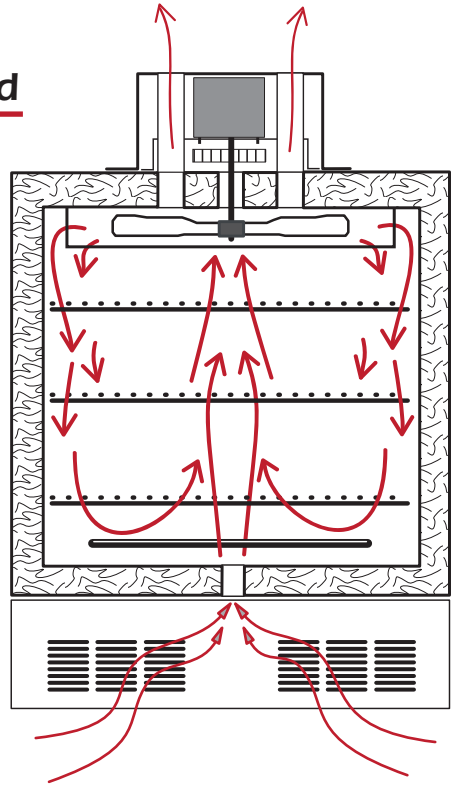
Single and dual elements coils at the bottom of our lab ovens generates the right amount of heat that by the proccess of gravity convection provides you with gentle and uniform heating for your parts.

Additionally, our air-forced convection ovens significantly increase the rate of heat transfer by circularing heated air in the chamber, allowing for better control over temperature gradients and more precise heat-exchange processes.

Gravity Convection



Air-Forced



Model Selection

You're in control

Choose the model that meets your unique size, temperature, and precision needs.

From our rugged and affordable analog units to our extremely accurate, convenient, and reliable digital ovens, Quincy is your partner to **control your environment.**

Digital Lab Ovens

Gravity Convection

Models

Gravity Convection

- 10GCE
- 20GCE
- 30GCE
- 40GCE

Gravity Convection - Low Temperature (LT)

- 10GCE-LT
- 20GCE-LT
- 30GCE-LT
- 40GCE-LT

Capacity

- 10GCE & 10GCE-LT - 0.7 Cubic Feet / 20 Liters
- 20GCE & 20GCE-LT - 1.27 Cubic Feet / 36 Liters
- 30GCE & 30GCE-LT - 2.0 Cubic Feet / 57 Liters
- 40GCE & 40GCE-LT - 3.0 Cubic Feet / 85 Liters

Temperature Range

- GCE models
  Ambient +25°F minimum to a maximum of 450°F, (232°C).
- GCE-LT models
  Ambient +15°F minimum to a maximum of 210°F, (99°C).

2 Year Warranty Parts & Labor

3 Year Warranty Heating Elements

Aluminized steel comes standard
Includes (2) nickel plated wire shelves
Models are available in optional 230 volts.

Specifications
Digital Lab Oven Series

Temperature Range

Models GCE - Ambient +25°F to 450°F (232°C)
Models GCE-LT - Ambient +25°F to 300°F (149°C)

	Model 10GCE	Model 10GCE-LT	Model 20GCE	Model 20GCE-LT	Model 30GCE	Model 30GCE-LT	Model 40GCE	Model 40GCE-LT
INTERIOR DIMENSIONS								
Inches W x H x D	12 x 10 x 10	12 x 10 x 10	13 x 13 x 13	13 x 13 x 13	18 x 16 x 12	18 x 16 x 12	18 x 21 x 14	18 x 21 x 14
(cm) W x H x D	31 x 25 x 25	31 x 25 x 25	33 x 33 x 33	33 x 33 x 33	46 x 41 x 31	46 x 41 x 31	46 x 53 x 36	46 x 53 x 36
EXTERIOR DIMENSIONS								
Inches W x H x D	14 x 17 x 12	14 x 17 x 12	15 x 21 x 15	15 x 21 x 15	20 x 25 x 14	20 x 25 x 14	20 x 30 x 16	20 x 30 x 16
(cm) W x H x D	36 x 43 x 31	36 x 43 x 31	38 x 53 x 38	38 x 53 x 38	51 x 64 x 36	51 x 64 x 36	51 x 76 x 41	51 x 76 x 41
CAPACITY								
Cubic feet	0.7	0.7	1.27	1.27	2.0	2.0	3.0	3.0
Liters	20	20	36	36	57	57	85	85
ELECTRICAL*								
Volts / Amps	115 / 5.2	115 / 3.1	120 / 6.3	115 / 3.1	115 / 10.5	115 / 6.3	120 / 12.5	115 / 6.3
Watts	600	360	750	360	1200	720	1500	720
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
PERFORMANCE**								
Control Stability								
Typically ± °C / °F	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°
Time to temp.								
Ambient to Max	43 min.	---	52 min.	---	37 min.	---	42 min.	---
Recovery time								
Door opened 15 sec.	9 min.	---	11 min.	---	10 min.	---	10 min.	---
Door opened 30 sec.	13 min.	---	14 min.	---	11 min.	---	14 min.	---
Weight								
Shipping / alone	43 / 31.4	43 / 31.4	57 / 43.5	57 / 43.5	76.2 / 57.2	76.2 / 57.2	91.5 / 72.5	91.5 / 72.5
Shelves								
Max. per unit (1in. center)	10	10	13	13	16	16	22	22
Maximum lbs. / shelf	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.

*Standard models voltage only, 230 Voltage available
**Performance characteristics for standard voltage medels, alternate voltage models may vary. All test were conducted under controlled laboratory conditions
--- Indicates data on this spec sheet is currently unavailable due to ongoing performance testing. Information will be updated promptly after completion of testing.

Digital Lab Ovens

Air-forced

c UL us LISTED

Models

Digital Air-forced

- 10AFE
- 20AFE
- 30AFE
- 40AFE

Digital Air-forced - Low Temperature (LT)

- 10AFE-LT
- 20AFE-LT
- 30AFE-LT
- 40AFE-LT

Capacity

- **10AFE & 10AFE-LT -** 0.6 Cubic Feet / 17 Liters
- **20AFE & 20AFE-LT -** 1.14 Cubic Feet / 32 Liters
- **30AFE & 30AFE-LT -** 1.83 Cubic Feet / 52 Liters
- **40AFE & 40AFE-LT -** 2.86 Cubic Feet / 81 Liters

Temperature Range

- **AFE models**
  Ambient +25°F minimum to a maximum of 450°F, (232°C).
- **AFE-LT models**
  Ambient +15°F minimum to a maximum of 225°F, (107°C).

2 Year Warranty Parts & Labor

3 Year Warranty Heating Elements

Aluminized steel comes standard
Includes (2) nickel plated wire shelves
Models are available in optional 230 volts.

Specifications
Digital Air-forced (AF) Lab Oven Series

Temperature Range

Models AFE - Ambient +25˚F to 450˚F (232˚C)
Models AFE-LT - Ambient +15˚F to 225˚F (107˚C)

	Model 10AFE	Model 10AFE-LT	Model 20AFE	Model 20AFE-LT	Model 30AFE	Model 30AFE-LT	Model 40AFE	Model 40AFE-LT
INTERIOR DIMENSIONS								
Inches W x H x D	12 x 8.63 x 10	12 x 8.63 x 10	13 x 11.63 x 13	13 x 11.63 x 13	18 x 14.63 x 12	18 x 14.63 x 12	18 x 19.63x 14	18 x 19.63x 14
(cm) W x H x D	30.5 x 22 x 25.4	30.5 x 22 x 25.4	33 x 29.5 x 33	33 x 29.5 x 33	46 x 37 x 30.5	46 x 37 x 30.5	46 x 50 x 35.5	46 x 50 x 35.5
EXTERIOR DIMENSIONS								
Inches W x H x D	14 x 20.5 x 12	14 x 20.5 x 12	15 x 24.5 x 15	15 x 24.5 x 15	20 x 28.5 x 14	20 x 28.5 x 14	20 x 33.5 x 16	20 x 33.5 x 16
(cm) W x H x D	35.5 x 52 x 30.5	35.5 x 52 x 30.5	38 x 61 x 38	38 x 61 x 38	51 x 72.4 x 35.5	51 x 72.4 x 35.5	51 x 85 x 40.6	51 x 85 x 40.6
CAPACITY								
Cubic feet	0.6	0.6	1.14	1.14	1.83	1.83	2.86	2.86
Liters	17	17	32	32	52	52	81	81
ELECTRICAL*								
Volts / Amps	120 / 6.8	115 / 3.7	120 / 8.5	115 / 3.7	120 / 13.1	115 / 6.8	120 / 13.1	115 / 6.8
Total Watts	822	432	1022	432	1572	792	1572	792
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
PERFORMANCE**								
Control Stability at 100˚C								
Typically ± ˚C / ˚F	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°	0.5° / 1.0°
Time to temp.								
Ambient to Max	43 min.	---	44 min.	---	38 min.	---	48 min.	---
Recovery time								
Door opened 15 sec.	10 min.	---	10 min.	---	11 min.	---	13 min.	---
Door opened 30 sec.	14 min.	---	11 min.	---	12 min.	---	14 min.	---
Weight								
Shipping / alone	50.4 / 37.2	50.4 / 37.2	65.7 / 58.7	65.7 / 58.7	84.2 / 64.2	84.2 / 64.2	98.5 / 80.8	98.5 / 80.8
Shelves								
Max. per unit (1in. center)	8	8	11	11	14	14	20	20
Maximum lbs. / shelf	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.

*Standard models voltage only, 230 Voltage available
**Performance characteristics for standard voltage medels, alternate voltage models may vary. All test were conducted under controlled laboratory conditions
--- Indicates data on this spec sheet is currently unavailable due to ongoing performance testing. Information will be updated promptly after completion of testing.

Analog Lab Ovens

Gravity and Air-forced

Models

Analog Gravity Convetion 'GC'

- 10GC
- 20GC
- 30GC
- 40GC

Capacity

- 10GC - 0.7 Cubic Feet / 20 Liters
- 20GC - 1.27 Cubic Feet / 36 Liters
- 30GC - 2.0 Cubic Feet / 57 Liters
- 40GC - 3.0 Cubic Feet / 85 Liters

Analog Air-forced 'AF' Convection

- 10AF
- 20AF
- 30AF
- 40AF

Capacity

- 10AF - 0.6 Cubic Feet / 17 Liters
- 20AF - 1.14 Cubic Feet / 32 Liters
- 30AF - 1.83 Cubic Feet / 52 Liters
- 40AF - 2.86 Cubic Feet / 81 Liters

Temperature Range

- GC and AF models

  Ambient +25°F minimum to a maximum of 450°F, (232°C).

2 Year Warranty Parts & Labor

3 Year Warranty Heating Elements

Aluminized steel comes standard
Includes (2) nickel plated wire shelves
Models are available in optional 230 volts.

Specifications
Analog Lab Oven Series

Temperature Range

Models GC and AF - Ambient +25˚F to 450˚F (232˚C)

	Model 10GC	Model 20GC	Model 30GC	Model 40GC	Model 10AF	Model 20AF	Model 30AF	Model 40AF
INTERIOR DIMENSIONS								
Inches W x H x D	12 x 10 x 10	13 x 13 x 13	18 x 15.63 x 12	18 x 21.8 x 14	12 x 8.25 x 10	13 X 11 X 13	18 x 14.2 x 12	18 x 19.8 x 14
(cm) W x H x D	30.5 x 25.4 x 25.4	33 x 33 x 33	45.7 x 39.7 x 30.5	45.7 x 55.4 x 35.6	30.5 x 21 x 25.4	33 X 28 X 33	45.7 x 36 x 30.5	45.7 x 50.3 x 36
EXTERIOR DIMENSIONS								
Inches W x H x D	14 x 17.5 x 12.3	15 x 21.5 x 15.3	20 x 25 x 14.3	20 x 31.5 x 16.3	14 x 20.5 x 12.3	15 x 25 x 15.3	20 x 29 x 14.3	20 x 35 x 16.3
(cm) W x H x D	35.5 x 44.5 x 31.2	38 x 54.6 x 38.9	50.8 x 64.8 x 36.2	50.8 x 80 x 41.4	35.5 x 52 x 31.2	38 x 63.5 x 38.9	50.8 x 73.7 x 36.2	50.8 x 89 x 41.4
CAPACITY								
Cubic feet	0.7	1.27	2.0	3.0	0.6	1.14	1.83	2.86
Liters	20	36	57	85	17	32	52	81
ELECTRICAL*								
Volts / Amps	115 / 5.2	120 / 6.3	115 / 10.4	120 / 12.5	120 / 6.85	120 / 8.51	120 / 13.1	120 / 13.1
Watts	600	750	1200	1500	822	1022	1572	1572
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
PERFORMANCE**								
Control Stability								
Typically ± ˚C / ˚F	3° / 6°	3° / 6°	3° / 6°	3° / 6°	3° / 6°	3° / 6°	3° / 6°	3° / 6°
Time to temp.								
Ambient to 100˚C	6 min.	6.5 min.	6 min.	6 min.	7.5 min.	9 min.	7 min.	9 min.
Ambient to Max	22 min.	25 min.	23 min.	28 min.	31 min.	37 min.	22 min.	39 min.
Recovery time at 150˚C								
Door opened 15 sec.	3.5 min.	5 min.	4 min.	6 min.	2.5 min.	7 min.	3 min.	6 min.
Door opened 30 sec.	6 min.	6 min.	6 min.	9 min.	3.5 min.	11 min.	5 min.	8 min.
Weight (lbs.)								
Shipping / alone	43 / 31.4	57 / 43.5	76.2 / 57.2	91.5 / 72.5	50.4 / 37.2	65.7 / 58.7	84.2 / 64.2	98.5 / 80.8
Shelves								
Max. per unit (1in. center)	10	13	16	22	8	11	14	20
Maximum lbs. / shelf	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.

*Standard models voltage only, 230 Voltage available

**Performance characteristics for standard voltage medels, alternate voltage models may vary. All test were conducted under controlled laboratory conditions

Options & Accessories

17

Oven Options

Single Window in Door

Continuously monitor your contents without letting any of the heat out.

Access Porthole

Insert pipes, wiring, or other components into the chamber through a custom access hole.

Chamber Light

Perfect for low-light environments, and especially useful when paired with a window.

Oven Options

High-Limit Analog Back Up

This factory installed high-limit back up is an additional analog controller that that gives you peace of mind by enabling heat control if the main controller fails.

High-Limit Digital Back Up

This factory installed high-limit back up is an additional digital controller that that gives you peace of mind by enabling heat control if the main controller fails.

In-door Dial Thermometer

Our rugged dial thermometer provides you with an easy-to-read visual of the chamber temperature. It is available installed from our factory or private installation.

Oven Options

Auto Shut-Off Timer

This timer is installed at our factory and allows you to easily program your oven to automatically shutoff after longer heating applications.

Programmable 7 Day ON/OFF

Our seven day timer is factory installed and allows you to conveniently set your oven to automatically turn on and off every day, giving you the proper heat when you need it most.

12-Hour Timer With Auto Shut-off

Our 12 hour timer is factory installed and allows you to easily set a time up to 12 hours to automatically shutoff at the end of your process.

Quincy Lab, Inc., with over half a century of innovation, is committed to delivering superior, cost-effective solutions that cater to your unique needs, enhancing operations and driving breakthroughs. Choosing Quincy Lab means investing in more than just a product - you're partnering with a company dedicated to your success.

Contact Us

General Inquiries

Phone: 1800-482-4328(HEAT)
Email: information@quincylab.com

For Sales and Orders

Phone: 773-622-2428 Option 1
Email: orders@quincylab.com

Technical Questions

Phone: 773-622-2428 Option 2
Email: information@quincylab.com

To see our complete product line visit us on the web at:
www.quincylab.com

Ready to place an order?
Scan our QR-code to complete your order form.