

Bench Ovens

from Quincy Lab, Inc.



FEATURING

- Large Bench or Portable Capacity
- All Encompassing Circular Air Flow
- ER Model Programmable PID Control
- 80 lb Capacity shelves
- Rapid Run-Up And Recovery
- Proven Reliability
- Full 18 Month Factory Warranty



MODEL 21-350



MODEL 31-350
MODEL SHOWN WITH
TWO OPTIONAL SHELVES

7 AND 10 FT³
300°F (150°C)
450°F (235°C)
550°F (288°C)



MODEL 21-350ER

TIME TESTED

Quincy Lab bench series ovens have been the workhorse in the industry for over 40 years. Now these time-tested bench ovens are even better. A redesigned chamber and air flow distribution system, improved cabinet insulation and an optional PID microprocessor temperature controller (ER MODELS), make the bench series an easy choice for heating applications everywhere.

APPLICATION

Developed for the industrial lab, these rugged general-purpose ovens are perfect for: preheating, thermal testing, self-batch processing, part

drying, curing, baking, evaporating, or dehydrating various media, soils or aggregate, and many other applications. All models feature large work spaces and excellent portability. They can be moved to the job, or stacked on one another to conserve space. Wherever thermal processing is needed, the bench series ovens bring year after year of trouble-free service and performance.

DESIGNED STANDARDS

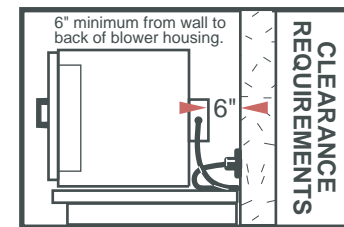
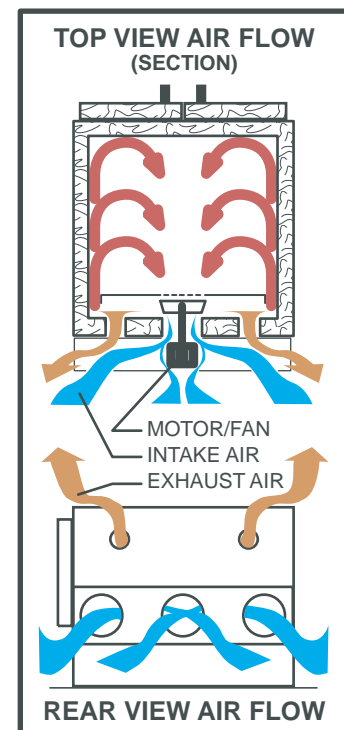
A virtual non-contact exterior to interior cabinet design and high-density industrial thermal fiber insulation greatly reduce thermal conductive transfer. That means greater energy efficiency and lower

exterior wall temperatures. Refinements in the air plenums and mixing chamber deliver an evenly heated horizontal circular flow of air for rapid heat to part transfer. A reliable quick-sensing hydraulic thermostat balances good temperature stability with recovery performance. Heavy-duty chrome plated wire shelves can support 80 lbs. and can be spaced on 1.5" centers to provide up to 56 square feet of shelf surface (31-350). Cabinet exteriors are finished in our exclusive Q-Lab "high-tech" bronze polyester. Large high-impact thermal plastic door handles always remain cool to the touch. See our complete list of options and accessories.

Quincy Lab, Inc. has been a mainline manufacturer of laboratory ovens and incubators for more than 45 years.
We are dedicated to product value, customer satisfaction, and ongoing product support



GENERAL SPECIFICATIONS	MODEL 21-250	MODEL 21-350	MODEL 31-350	MODEL 51-550
INTERIOR DIMENSIONS				
INCHES W x H x D	25.5x19.75x24	25.5x19.75x24	25.5x30x24	25.5x19.75x22.5
(CM) W x H x D	64.7x50x61	64.7x50x61	64.7x76x61	64.7x50x57
EXTERIOR DIMENSIONS				
INCHES W x H x D	33x24x35.5	33x24x35.5	33x34x35.5	33x24x35.5
(CM) W x H x D	83x61x90	83x61x90	83x86x90	83x60x90
CAPACITY				
CUBIC FEET	7	7	10.6	6.60
(LITERS)	198	198	300	186
TEMPERATURE RANGE				
AMBIENT +25° F MIN. TO:				
FAHRENHEIT	300°	450°	450°	550°
CENTIGRADE	150°	232°	232°	287°
SHELVES (1-1/2" CENTERS)				
MAXIMUM PER UNIT	11	11	17	11
MAXIMUM POUNDS / SHELF	80	80	80	80
ELECTRICAL				
VOLTS/AMPS	115/9.2	120/16	120/16	230/12.5
WATTS	1050	1920	1920	3000
PLUG/NEMA	5-15P*	5-20P*	5-20P*	6-20P
WEIGHT				
SHIPPING	185	185	225	195
STAND ALONE	165	165	200	170



* 230 Volt optional on models 21 & 31



MODEL 21-350ER shown with optional window and chamber light & 10" "swing-out" circular chart recorder

PERFORMANCE CHARACTERISTICS*	MODEL 21-250/ER	MODEL 21-350/ER	MODEL 31-350/ER	MODEL 51-550/ER
CONTROL STABILITY				
@ 100C	+/- 2.0 / 0.2°C	+/- 2.0 / 0.3°C	+/- 2.5 / 0.5°C	+/- 3.0 / 0.5°C
@ 200C	NA	+/- 2.5 / 0.5°C	+/- 3.0 / 0.5°C	+/- 3.5 / 0.5°C
UNIFORMITY				
@ 100C	+/- 2.5 / 2.0°C	+/- 2.5 / 2.0°C	+/- 3.0 / 2.0°C	+/- 3.5 / 2.5°C
@ 200C	NA	+/- 3.5 / 4.0°C	+/- 4.0 / 3.0°C	+/- 5.5 / 4.5°C
TIME TO TEMPERATURE				
AMBIENT TO 100C	15 Min. / 16 Min.	8 Min. / 9 Min.	9 Min. / 10 Min.	3 Min. / 6 Min.
AMBIENT TO MAX	36 Min. / 38 Min.	30 Min. / 32 Min.	35 Min. / 38 Min.	40 Min. / 45 Min.
RECOVERY @ 150C				
DOOR OPEN 15 SEC.	4 Min. / 5 Min.	2 Min. / 3 Min.	3 Min. / 4 Min.	1 Min. / 2 Min.
DOOR OPEN 30 SEC.	5 Min. / 6 Min.	3 Min. / 4 Min.	4 Min. / 5 Min.	2 Min. / 3 Min.
REPEATABILITY @ 150C (SET POINT DRIFT)**				
	+/- 2.0 / 0.5°C	+/- 1.0 / 0.5°C	+/- 1.5 / 0.5°C	+/- 2.0 / 0.75°C
AIR CHANGES MAX / HOUR @ 150C WITH NO LOAD				
	8 to 12	8 to 12	8 to 12	8 to 12
MAX CHAMBER AIR VELOCITY				
	7 ft/sec.	7 ft/sec.	7 ft/sec.	7 ft/sec.
EVAPORATION RATE @ 110°C +/-5° (230°F +/-9°) per ASTM C88				
	30-35 g/h	30-35 g/h	30-35 g/h	30-35 g/h

* PERFORMANCE CHARACTERISTICS FOR STANDARD VOLTAGE MODELS, ALTERNATE VOLTAGE MODELS MAY VARY. ALL TESTS CONDUCTED UNDER CONTROLLED LABORATORY CONDITIONS.

** REPEATABILITY OR SET POINT DRIFT MEASURED FOR 24 HRS. WITH CONTROLLED LAB AMBIENT TEMPERATURES NOT VARYING MORE THAN 2 DEGREES C & SUPPLY VOLTAGE BY NOT MORE THAN 2%.

