

Bench Ovens

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



M111764



M111766

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



M111765

TIME TESTED

Q-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

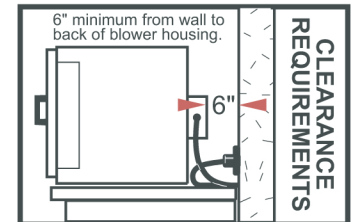
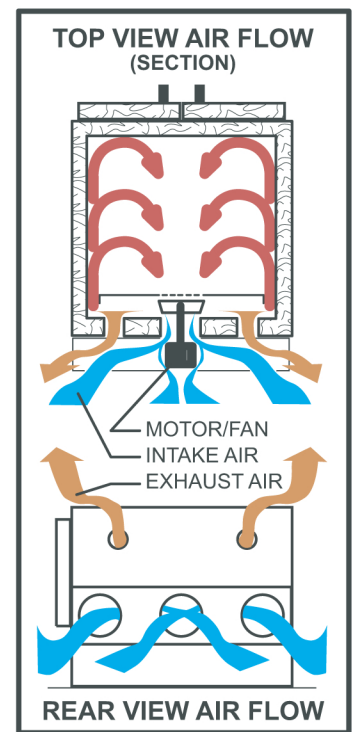
drying, curing, baking, evaporating, or dehydrating various media, soils or aggregate, and many other applications. All models feature large work spaces and excellent portability. They can be moved to the job, or stacked on one another to conserve space. Wherever thermal processing is needed, the bench 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.

GENERAL SPECIFICATIONS	MODEL M111762	MODEL M111764	MODEL M111766
INTERIOR DIMENSIONS			
INCHES W x H x D	25.5x19.75x24	25.5x19.75x24	25.5x30x24
(CM) W x H x D	64.7x50x61	64.7x50x61	64.7x76x61
EXTERIOR DIMENSIONS			
INCHES W x H x D	33x24x35.5	33x24x35.5	33x34x35.5
(CM) W x H x D	83x61x90	83x61x90	83x86x90
CAPACITY			
CUBIC FEET	7	7	10.6
(LITERS)	198	198	300
TEMPERATURE MAXIMUM			
FAHRENHEIT	300°	450°	450°
CENTIGRADE	150°	232°	232°
SHELVES (1-1/2" CENTERS)			
MAXIMUM PER UNIT	11	11	17
MAXIMUM POUNDS / SHELF	80	80	80
ELECTRICAL			
VOLTS/AMPS	115/9.2	120/16	120/16
WATTS	1050	1920	1920
PLUG/NEMA	5-15P*	5-20P*	5-20P*
WEIGHT			
SHIPPING	185	185	225
STAND ALONE	165	165	200



M111765 shown with optional window and chamber light & 10" "swing-out" circular chart recorder

PERFORMANCE CHARACTERISTICS*	MODEL M111762 / M111763	MODEL M111764 / M111765	MODEL M111766 / M111767
CONTROL STABILITY			
@ 100C	+/- 2.0 / 0.2°C	+/- 2.0 / 0.3°C	+/- 2.5 / 0.5°C
@ 200C	NA	+/- 2.5 / 0.5°C	+/- 3.0 / 0.5°C
UNIFORMITY			
@ 100C	+/- 2.5 / 2.0°C	+/- 2.5 / 2.0°C	+/- 3.0 / 2.0°C
@ 200C	NA	+/- 3.5 / 4.0°C	+/- 4.0 / 3.0°C
TIME TO TEMPERATURE			
AMBIENT TO 100C	15 Min. / 16 Min.	8 Min. / 9 Min.	9 Min. / 10 Min.
AMBIENT TO MAX	36 Min. / 38 Min.	30 Min. / 32 Min.	35 Min. / 38 Min.
RECOVERY @ 150C			
DOOR OPEN 15 SEC.	4 Min. / 5 Min.	2 Min. / 3 Min.	3 Min. / 4 Min.
DOOR OPEN 30 SEC.	5 Min. / 6 Min.	3 Min. / 4 Min.	4 Min. / 5 Min.
REPEATABILITY @ 150C (SET POINT DRIFT)**			
	+/- 2.0 / 0.5 °C	+/- 1.0 / 0.5 °C	+/- 1.5 / 0.5 °C
AIR CHANGES MAX / HOUR @150C WITH NO LOAD			
	8 to 12	8 to 12	8 to 12
MAX CHAMBER AIR VELOCITY			
	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

* 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%.