

QLab Convection Ovens



FEATURING

Large Bench | Portable Capacity | All Encompassing Circular Air Flow | Programmable PID Control | 40 kg Capacity shelves | Rapid Run-Up and Recovery | Proven Reliability | 12 Month Warranty

TIME TESTED

NBD 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 (Digital Control), make the bench series an easy choice for heating applications everywhere

APPLICATION

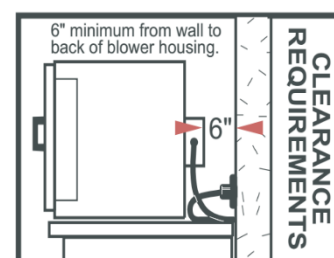
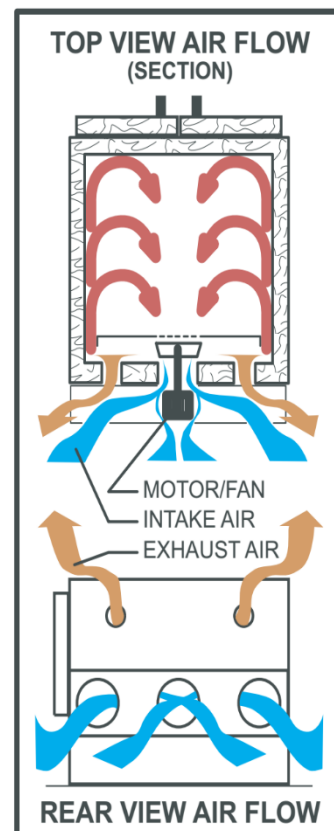
Developed for the industrial lab, these rugged general-purpose ovens are perfect for: preheating, thermal testing, self-batch processing, part drying, curing, baking, evaporating, or exterior wall temperatures dehydrating various media, soils or Refinements in the air plenums and aggregate, and many applications. All models feature large Work spaces and excellent portability. They can be moved to the job r stacked on one another to save 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 air mixing chamber deliver an evenly heated horizontal circular flow of air for rapid heat to part transfer. A reliable quick-sensing hydraulic the most at balances good temperature stability with recovery performance. Heavy-duty chrome plated wire shelves can support 40 kg and can be spaced on 38mm centers to provide up to 5.2 Square/meter of shelf surface (300L-232C). Cabinet exteriors are finished in our exclusive bronze polyester. Large high-impact thermal plastic door handles always remain cool to touch. See our complete list of options and accessories.

QLab is AMERICAN Manufacturer of laboratory ovens and incubators for more than 40 years.

GENERAL SPECIFICATIONS		QLab 21-250[A/D]		QLab 21-350[A/D]		QLab 31-350[A/D]		QLab 51-550[A/D]	
INTERIOR DIMENSIONS W x H x D [c"m]		65x50x61		65x50x61		65x76x61		65x50x57	
CAPACITY [liters]		198		198		300		186	
EXTERIOR DIMENSIONS W x H x D [c"m]		83x61x90		83x61x90		83x86x90		83x60x90	
Temp' Range [Ambient +20To]		150		232		232		287	
Maximum Shelves		11		11		17		11	
Maximum Shelf Load kg		40							
Electrical Power [230V]		1050		1920		1920		3000	
WEIGHT	SHIPPING	103		103		125		109	
	ALONE	92		92		112		95	
PERFORMANCE CHARACTERISTICS*		QLab 21-250[A/D]		QLab 21-350[A/D]		QLab 31-350[A/D]		QLab 51-550[A/D]	
Control Type		Analog	Digital	Analog	Digital	Analog	Digital	Analog	Digital
Control stability +/-	At 100C	2.0	0.2	2.0	0.3	2.5	0.5	3.0	0.5
	At 200C	NA	NA	0.5	2.5	3.0	0.5	3.5	0.5
Temp Uniformity +/-	At 100C	2.5	2.0	2.5	2.0	3.0	2.0	3.5	2.5
	At 200C	NA	NA	3.5	4.0	4.0	3.0	5.5	4.5
TIME TO TEMPERATURE Minutes	AMBIENT TO 100C	15	16	8	9	9	10	3	6
	AMBIENT TO MAX	36	38	30	32	35	32	40	45
RECOVERY TIME [MINUTES] AT 150C	DOOR OPEN 15 SEC	4	5	2	3	3	4	1	2
	DOOR OPEN 30 SEC	5	6	3	4	4	5	2	3
REPEATABILITY @ 150C		2.0	0.5	1.0	0.5	1.5	0.5	2.0	0.75
AIR CHANGES MAX / HOUR At 150C WITH NO LOAD		8 TO 12		8 TO 12		8 TO 12		8 TO 12	
MAX CHAMBER AIR VELOCITY		2Mtr/Sec		2Mtr/Sec		2Mtr/Sec		2Mtr/Sec	
EVAPORATION RATE @ 110 C +/- 5 per ASTM C88		30-35 g/h		30-35 g/h		30-35 g/h		30-35 g/h	



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* 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%.



Exhaust Chamber Adapter for Bench Oven



Heavy Duty Shelf for Bench Ovens



12-Hour Timer for Bench and Lab Ovens