



HUMBOLDT

Laboratory Ovens Digital Controller



These quality fan-forced and gravity-convection circulation ovens are now available with digital, microprocessor controllers. The new digital controller offers the ease of temperature setting and the reliable stability of a full, PID microprocessor, which accurately maintains settings to within $\pm 0.5^{\circ}\text{C}$ (1°F) even in widely fluctuating ambient temperatures. This new controller helps to confirm stability or indicate any control malfunctions or power loss throughout a process period. The digital controller features large LEDs, which continuously display set temperature and process temperature, as well as providing a setting lock mode, which provides protection against accidental or inadvertent adjustment.

Cabinets are as attractive as they are durable and feature double-wall construction and a heavy, welded-steel exterior. Exteriors are painted light gray and have a hard, scratch-resistant hammer finish. Doors feature high-impact, thermoplastic handles, which provide years of reliable service. The ovens provide a one inch layer of high-density mineral wool insulation between the outer cabinet and interior, which are made of corrosion-resistant aluminized steel.

Energy-efficient, low-watt density, incoloy sheathed elements are engineered into a compact design for quick

run-up and recovery times. Temperature uniformity is greatly improved by a perforated heat shield which absorbs radiant heat and distributes it more evenly throughout the product chamber.

All ovens use only quality UL and CSA recognized components. The gravity convection ovens are designed to meet the laboratory needs of industry, research organizations, and schools. Well-crafted and versatile, they are used for part drying, baking, curing, sterilizing, evaporating, heat treating, annealing, and testing.

The forced-air circulation ovens allow for uniform distribution of heat throughout the chamber, which also facilitates dehydration and evaporating. These ovens have temperature range of: ambient $+25^{\circ}\text{F}$ minimum, to $450^{\circ}\text{F}/232^{\circ}\text{C}$ maximum, and are competitively priced and offer exceptional value and reliability.

All ovens come with two, adjustable shelves and a 6 ft., 3-wire power cord—115V 60Hz models come with a grounded plug, while 230V 50/60Hz models come with no plug to facilitate adding the correct one for your application. Units also have scratch-proof rubber feet, a full-length piano-hinged door and extruded thermoplastic door handle.

Laboratory Ovens Digital Controller

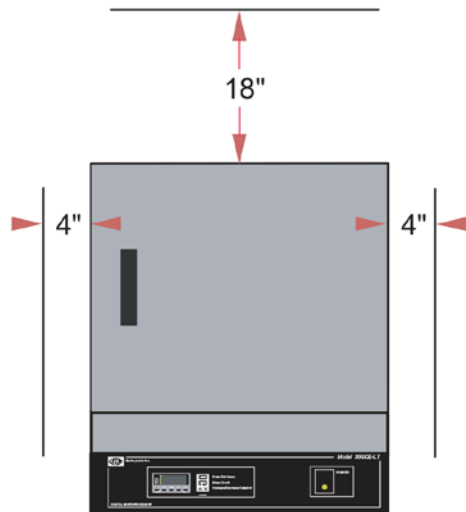
Laboratory Ovens – Gravity Convection

Model	Max. Temp.	Description	Electric	Dimensions (W x D x H)
H-30100E	450°F (232°C)	0.7 cu. ft. (20L) capacity. Features digital PID microprocessor temperature controller, $\pm 0.5^\circ\text{C}/1^\circ\text{F}$ sensitivity. Shipping wt. 44 lbs. (20kg)	115V, 60 Hz, 600 watts	Inside: 12" x 10" x 10" (305 x 254 x 254mm) Overall: 14" x 12.3" x 17.5" (356 x 312 x 445mm)
H-30100E.4F			230V, 50/60 Hz 600 watts.	
H-30110E	450°F (232°C)	1.27 cu. ft. (365L) capacity. Features digital PID microprocessor temperature controller, $\pm 0.5^\circ\text{C}/1^\circ\text{F}$ sensitivity. Shipping wt. 58 lbs. (26.3kg)	115V, 60 Hz, 1000 watts	Inside: 13" x 13" x 13" (330 x 330 x 330mm) Overall: 15" x 15.3" x 21.5" (381 x 389 x 546mm)
H-30110E.4F			230V, 50/60 Hz 1000 watts.	
H-30120E	450°F (232°C)	2 cu. ft. (57L) capacity. Features digital PID microprocessor temperature controller, $\pm 0.5^\circ\text{C}/1^\circ\text{F}$ sensitivity. Shipping wt. 78 lbs. (35kg)	115V, 60 Hz, 1200 watts	Inside: 18" x 12" x 15.6" (457 x 305 x 396mm) Overall: 20" x 14.3" x 25.5" (508 x 362 x 648mm)
H-30120E.4F			230V, 50/60 Hz 1200 watts.	
H-30128E	450°F (232°C)	3.0 cu. ft. (85L) capacity. Features digital PID microprocessor temperature controller, $\pm 0.5^\circ\text{C}/1^\circ\text{F}$ sensitivity. Shipping wt. 148 lbs. (67.1kg)	115V, 60 Hz, 1600 watts	Inside: 18" x 14" x 21.8" (457 x 356 x 554mm) Overall: 20" x 16.3" x 31.5" (508 x 414 x 800mm)
H-30128E.4F			230V, 50/60 Hz 1600 watts.	

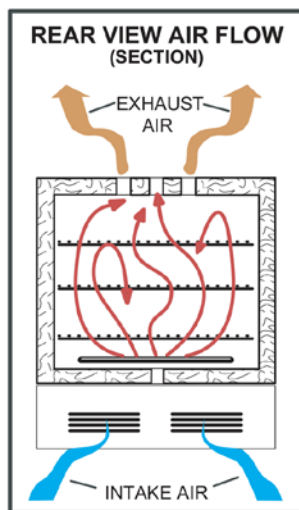
Laboratory Ovens – Forced Air

Model	Max. Temp.	Description	Electric	Dimensions (W x D x H)
H-30105E	450°F (232°C)	0.6 cu. ft. (17L) capacity. Features digital PID microprocessor temperature controller, $\pm 0.5^\circ\text{C}/1^\circ\text{F}$ sensitivity. Shipping wt. 49 lbs. (22.2kg)	115V, 60 Hz, 800 watts	Inside: 12" x 8.25" x 10" (305 x 210 x 254mm) Overall: 14" x 12.3" x 20.5" (356 x 312 x 5205mm)
H-30105E.4F			230V, 50/60 Hz 800 watts.	
H-30115E	450°F (232°C)	1.14 cu. ft. (32L) capacity. Features digital PID microprocessor temperature controller, $\pm 0.5^\circ\text{C}/1^\circ\text{F}$ sensitivity. Shipping wt. 70 lbs. (31.7kg)	115V, 60 Hz, 1000 watts	Inside: 13" x 11" x 13" (330 x 280 x 330mm) Overall: 15" x 15.3" x 25" (380 x 389 x 635mm)
H-30115E.4F			230V, 50/60 Hz 1000 watts.	
H-30125E	450°F (232°C)	1.83cu. ft. (52L) capacity. Features digital PID microprocessor temperature controller, $\pm 0.5^\circ\text{C}/1^\circ\text{F}$ sensitivity. Shipping wt. 82 lbs. (31.7kg)	115V, 60 Hz, 1600 watts	Inside: 18" x 12" x 14.2" (457 x 305 x 360mm) Overall: 20" x 14.3" x 29" (508 x 362 x 737mm)
H-30125E.4F			230V, 50/60 Hz 1600 watts.	
H-30131E	450°F (232°C)	2.86 cu. ft. (81L) capacity. Features digital PID microprocessor temperature controller, $\pm 0.5^\circ\text{C}/1^\circ\text{F}$ sensitivity. Shipping wt. 98 lbs. (44.5kg)	115V, 60 Hz, 1600 watts	Inside: 18" x 14" x 19.8" (457 x 356 x 503mm) Overall: 20" x 16.3" x 35" (508 x 414 x 890mm)
H-30131E.4F			230V, 50/60 Hz 1600 watts.	

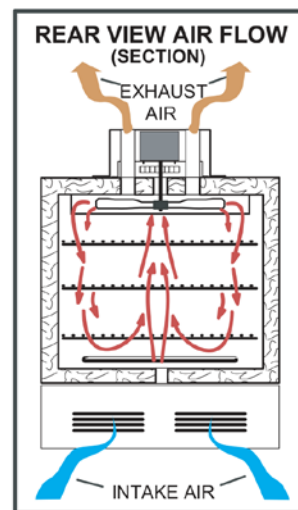
MINIMUM CLEARANCES



Gravity Convection



Forced Air



Testing Equipment for  Construction Materials

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