



HUMBOLDT

Laboratory Bench Ovens

Eco-Friendly, Mineral Wool Insulation

Mineral wool insulation greatly reduces thermal conductivity, which translates to: increased energy efficiency and lower exterior wall temperatures

High-quality Steel

Aluminized-steel interior is standard.

Stainless steel interior available as option

Thermoplastic Door Handles

Door handles thrive in industrial and lab environments — built to resist heat and protect your hands.

High-Temperature Door Seal

Tightly-woven, stainless steel and fiberglass seal keeps heat inside oven, where it belongs.

Powder-coated Textured Surface

Textured finish protects your investment by resisting everything from chemicals, chipping and fading.



Oven Features:

All Digital Bench series ovens offer these standard features:

- Digital PID microprocessor
- Fan-forced air circulation
- Aluminized interior (also available in stainless steel)
- Incoloy-sheathed heating elements
- 6 lb. high-density, mineral wool insulation
- Gasketed steel doors
- Adjustable, 80 lb. capacity shelves
- Heat/cool down switch
- Rapid run-up and recovery times
- Baked-in, scratch-resistant powder-coated finish

Digital P.I.D. Microprocessor:

New and easy-to-use P.I.D. Microprocessor not only provides easy setting of temperature, but also provides ramp & soak capability and a countdown timer, facilitating the most demanding applications. Digitally-controlled Bench Ovens use a 'J'-type thermocouple.

Communication upgrade option

When paired with the free downloadable software, temperature monitoring and tracking can be remotely controlled via an RS485 connection.

Temperature Range:

from Ambient (room temperature) +25°F min. to a max. of 550°F.

Laboratory Bench Ovens, Digital-Series

The Digital Series ovens take the standard forced-air, convection ovens and add a PID microprocessor controller with a

digital display to provide greater uniformity, repeatability and resolution of heating operations. The precise micro-processor and the J-type thermocouple holds set temperatures accurately to $\pm 1^\circ\text{F}$ or C with improved chamber temperature uniformity. Control features include large, easy-to-read dual LED display, which shows both the set and process temperatures at a glance. The ovens are constructed of corrosion-resistant, aluminized steel interiors and exteriors coated in an exclusive "high-tech" bronze polyester finish. The large, high-impact thermal plastic door handles provide durability and remain cool-to-the-touch during operation. Ovens come with (2) heavy-duty, chrome-plated wire shelves, which can support 80 lbs. (36kg). Additional shelves can be added. UL / cUL listed.

Laboratory Bench Ovens, Analog-Series

These forced-air, convection ovens feature double-wall, steel construction, which provides reliable, even work-space temperature for testing applications. The ovens are constructed of corrosion-resistant, aluminized steel interiors and exteriors coated in an exclusive "high-tech" bronze polyester finish. The large, high-impact thermal plastic door handles provide durability and remain cool-to-the-touch during operation. Ovens come with (2) heavy-duty, chrome-plated wire shelves, which can support 80 lbs. (36kg). Additional shelves can be added. Ovens can accommodate up to 11 shelves (17 for the H-30135 models), which can be adjusted to 1.5" center increments. UL / cUL listed.

Laboratory Bench Ovens



H-30145E with E-Series Digital Control

Digital-Controlled Bench Ovens			
Model	Max. Temp.	Description	Dimensions (W x H x D)
H-30140E	300°F (149°C)	7 cu. ft. (198L) capacity. Features Digital P.I.D. controller, 115V, 60 Hz, 1050 watts, 9.2 amps, Shipping wt. 185 lbs. (84kg)	Inside: 25.5" x 20" x 24" (648 x 508 x 610mm) Overall: 33" x 24" x 35.5" (838 x 610 x 902mm)
H-30140E.4F		230V, 50/60Hz version of H-30140E	
H-30145E	450°F (232°C)	7 cu. ft. (198L) capacity. Features Digital P.I.D. controller, 115V, 60 Hz, 1920 watts, 16 amps. Shipping wt. 185 lbs. (84kg)	Inside: 25.5" x 20" x 24" (648 x 508 x 610mm) Overall: 33" x 24" x 35.5" (838 x 610 x 902mm)
H-30145E.4F		230V, 50/60Hz version of H-30145E	
H-30135E	450°F (232°C)	10.6 cu. ft. (300L) capacity. Features Digital P.I.D. controller, 115V, 60 Hz. 1920 watts, 16 amps. Uses 20 amp grounded plug. Shipping wt. 225 lbs (102kg)	Inside: 25.5" x 30" x 24" (648 x 762 x 610mm) Overall: 33" x 34" x 35.5" (838 x 864 x 902mm)
H-30135E.4F		230V, 50/60Hz version of H-30135E	
H-30160E.4F	550°F (287°C)	7 cu. ft. (198L) Features Digital P.I.D. controller, 230V, 60 Hz, 3000 watts, 12.5 amps. Shipping wt. 195 lbs (77.1kg)	Inside: 25.5" x 20" x 22.5" (648 x 508 x 572mm) Overall: 33" x 24" x 35.5" (838 x 610 x 902mm)



H-30145 with Analog Control

Analog-Controlled Bench Ovens			
Model	Max. temp.	Description	Dimensions (W x H x D)
H-30140	300°F (149°C)	7 cu. ft. (198L) capacity. Features automatic hydraulic thermostat, 115V, 60 Hz, 1050 watts, 9.2 amps, Shipping wt. 185 lbs. (84kg)	Inside: 25.5" x 20" x 24" (648 x 508 x 610mm) Overall: 33" x 24" x 35.5" (838 x 610 x 908mm)
H-30140.4F		230V, 50/60Hz version of H-30140E	
H-30145	450°F (232°C)	7 cu. ft. (198L) capacity. Features automatic hydraulic thermostat, 115V, 60 Hz, 1920 watts, 16 amps. Shipping wt. 185 lbs. (84kg)	Inside: 25.5" x 20" x 24" (648 x 508 x 610mm) Overall: 33" x 24" x 35.5" (838 x 610 x 902mm)
H-30145.4F		230V, 50/60Hz version of H-30145E	
H-30135	450°F (232°C)	10.6 cu. ft. (300L) capacity. Features automatic hydraulic thermostat 115V, 60 Hz. 1920 watts, 16 amps. Uses 20 amp grounded plug. Shipping wt. 225 lbs (102kg)	Inside: 25.5" x 30" x 24" (648 x 762 x 610mm) Overall: 33" x 34" x 35.5" (838 x 864 x 902mm)
H-30135.4F		230V, 50/60Hz version of H-30135E	
H-30160.4F	550°F (287°C)	7 cu. ft. (198L) Features automatic hydraulic thermostat, 230V, 60 Hz, 3000 watts, 12.5 amps. Shipping wt. 195 lbs (77.1kg)	Inside: 25.5" x 20" x 25.5" (648 x 508 x 572mm) Overall: 33" x 24" x 35.5" (838 x 610 x 902mm)
H-30160SS.4F		Stainless steel version of H-30160.4F	



NOTES

230V Models do not have wire plug.

Laboratory Bench Ovens, Accessories

Description	Part #
Shelf and Supports for all models	H-30145S
Exhaust Kit, 3" Pipe	H-30181
Floor Stand for all models	H-30150
Cabinet with 2 Slide-out Shelves	H-30155

Testing Equipment for



Construction Materials

HUMBOLDT

Humboldt Mfg. Co.

www.humboldtmfg.com

875 Tollgate Road

Elgin, Illinois 60123 U.S.A.

U.S.A. Toll Free: 1.800.544.7220

Voice: 1.708.468.6300

Fax: 1.708.456.0137

email: hmc@humboldtmfg.com