

NEW!



Ovens

EOF Series - Forced-air Convection

EON Series - Natural Convection

being Introduction

BEING is an economically priced, high-end, high-performance laboratory equipment brand. We are committed to providing users with intelligent, intuitive, and professional laboratory equipment that modern laboratories require.

*Besides the **NEW EOF and EON** drying ovens, BEING offers laboratories a broad portfolio of incubators, shakers, stirrers, evaporators, water baths, chillers, and vacuum pumps.*

EOF / EON Drying Ovens



Our next generation drying ovens are the 'Smart Choice' for convection drying ovens.

With 5 different models to choose from, BEING offers one of the largest selections of forced-air and natural convection lab ovens on the market. They are ideal for applications such as aging tests, baking and curing, dehydrating, dry sterilization, glassware drying, moisture and stability test processing electronics, and regenerating desiccants and catalysts in chemistry, clinical, forensic, electronics, material processing, pharmaceutical, and research laboratories.

All of our ovens are energy efficient, have excellent temperature regulation capabilities, and come with a host of features that provide safe and easy operation — and are economically priced. They're all designed, manufactured, and tested to the DIN 12880-2007 standard, providing a long service life.

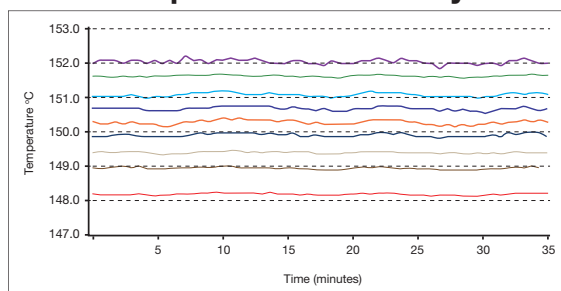
This combination of selection, specifications, features, quality, and value makes BEING drying ovens the smart choice.



Precise temperature control

BEING EOF and EON series drying ovens provide a precise and steady heating environment that ensures consistent product quality, lowers the chances for rework and helps achieve reliable production results while reducing your laboratory's energy costs by being energy efficient.

Temperature Uniformity

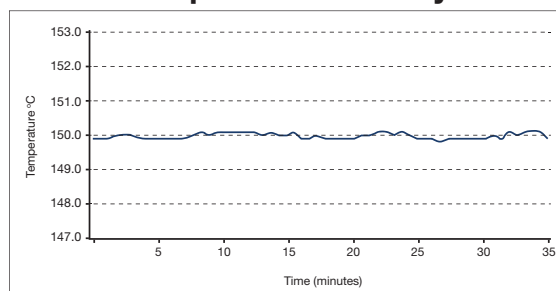


The drying chamber's temperature uniformity enables all samples to be heated evenly.

EOF series: $\leq \pm 2.0^{\circ}\text{C}$ to $\pm 2.5^{\circ}\text{C}$ depending on oven size.

EON series: $\leq \pm 2.5^{\circ}\text{C}$

Temperature Stability



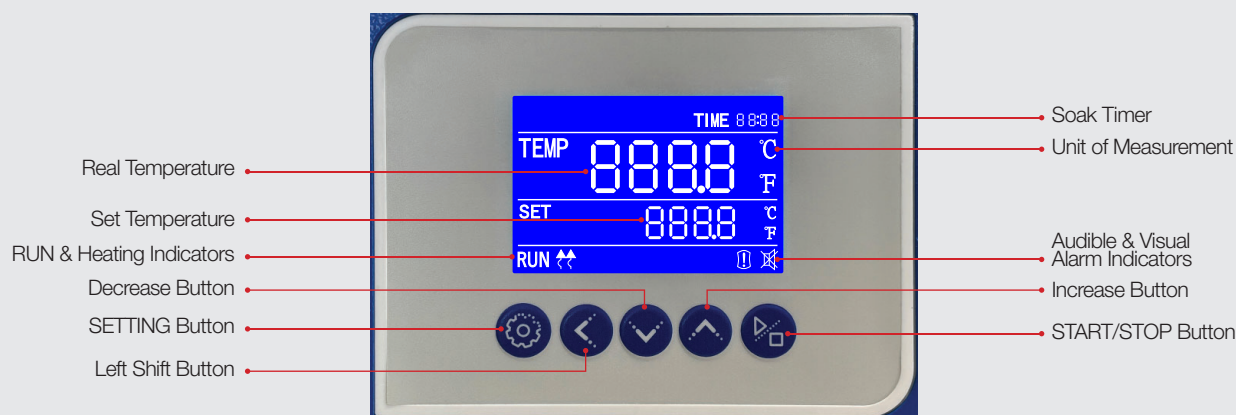
The drying chamber's temperature stability of $\pm 0.5^{\circ}\text{C}$ ensures experiment stability.

Note: The stability and uniformity are measured at steady-state with an empty chamber according to DIN 12880, and at an ambient temperature of 25°C .

Oven Controller Comparison

Controller & Safety Feature		E-Series	L-Series	T-Series
Series		EOF & EON	BOF, BON & BOV	BOF-T & BON-T
Screen Type		LCD	LCD	Touch Capacitive
Controller	Automatic Power on/off	√	√	√
	PID automatic control	√	√	√
	Data collection	–	–	USB
	Programmable functions			
	Fixed-value programs	√	√	√
	Multi-step programs	–	√	√
	Controller-controlled ramp	√	√	√
	Linear ramp profiles	–	√	√
	Program cycling	–	√	√
	Timed & Untimed	√	√	√
	Fan speed - Adjustable	–	–	√ (BOF-T only)
	RUN delay	√	√	√
Port	Test hole	EON Only	BOF & BON Only	√
Safety	Over-temperature protection	√	√	√
	Temperature limit protection	√	√	√
	Over-current protection	√	√	√
	Power off memory	√	√	√
	Anti-scalding protection	√	√	√

Professional LCD Controller Features

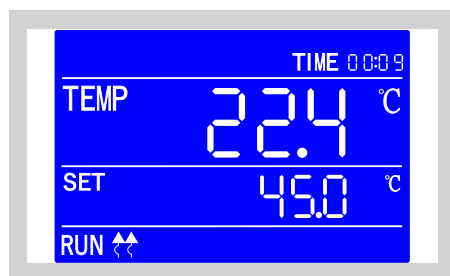


The BEING E-series professional PID controller has a 3.1-inch easy-to-read, real-time LCD display to select the various fixed-value program functions with all the parameters on a single screen, providing quick and easy setting of temperature, time, and other parameters — and convenient operation.



Easy to use

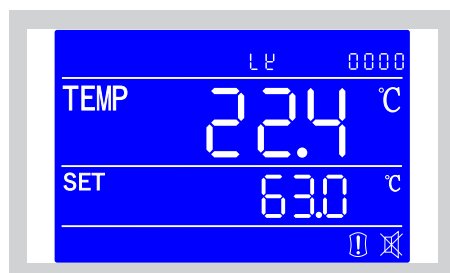
Simple and intuitive setting of all the operating parameters thanks to easy-to-understand icons and symbols.



Programmable control at your fingertips

The oven is designed to be used immediately out of the box with a single (fixed-value) basic timed (1 minute to 99 hours and 59 minutes) or untimed program.

Need to start your experiment at a specific time? The On/RUN delay makes it easy to do.



Password Protected

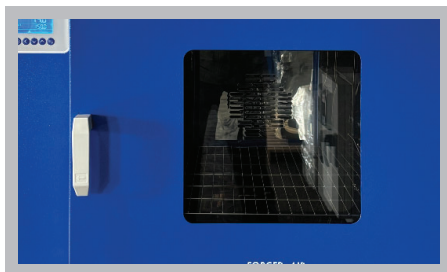
The controller has 4 settings access levels. Each level is password protected to avoid accidental changes to “sensitive” parameters.

Oven Features



Energy saving design

BEING EOF and EON ovens are designed to provide safe and reliable operation without high energy consumption. The easy-to-rotate and change silicone door seal's flexibility creates a tight seal, prevents heat loss, and prolongs the heating elements' life. Compared with traditional equipment, BEING ovens are designed and engineered to **minimize heat loss by 20%, and thermal power is reduced by 25%.**



Large Observation Window (EOF only)

You can regularly monitor the specimens at a glance through the double-pane, tempered glass viewing window. It is safe and reliable and offers a large viewing angle.



Stainless steel inner liner

Mirror-polished 304 stainless steel lines the EOF and EON's chamber to provide excellent corrosion resistance. The large radius coved corners offer easy cleaning and maintenance while providing optimal air circulation.

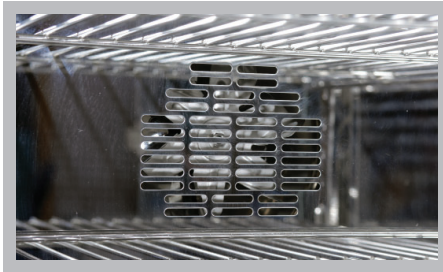


Flexible, no tilt shelf design (EON Series)

BEING's adjustable wire rack shelf design improves air circulation and maximizes chamber organizational versatility. The shelves are chrome-plated, 304 stainless steel. On the EON series, as you pull the shelves out, BEING's anti-inclination and shelf locking feature lock them in place when reaching halfway, eliminating any shelf tilting and experiment or sample loss, minimizing accidents, and protecting the operator.

Two shelves are supplied with each model; additional shelving is available if you need more storage.

Oven Features



Circulating fan (EOF Series)

The forced-air convection fan has a large impeller design to provide good temperature uniformity by moving the air horizontally across the shelves, and a fast recovery rate.



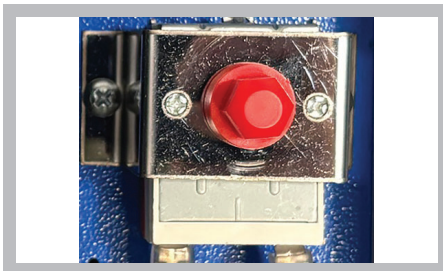
Exhaust vent

Hot air naturally rises, so BEING locates an exhaust vent near the top of the oven to promote air circulation and provide chamber temperature uniformity and trouble-free access.



Adjustable exhaust vent damper (EOF Series)

The exhaust vent opening is easily adjustable to modify drying, baking, or curing time by controlling the amount of airflow through the oven; enhance the drying chamber's ventilation efficiency; prevent excessive heat loss, and improve temperature uniformity.



Preventing damage from overheating

All ovens have dual overheating protection to prevent specimen and equipment damage. The controller's over-temperature protection is adjustable. It shuts down the heating element and fires an alarm until the temperature drops below the set point if the oven exceeds the set temperature and the alarm setting. The independent overheating switch is fixed to a specific temperature and is equipped with a manual reset. If the controller malfunctions, the switch cuts off the unit's power until the user presses the reset button.

Oven Features



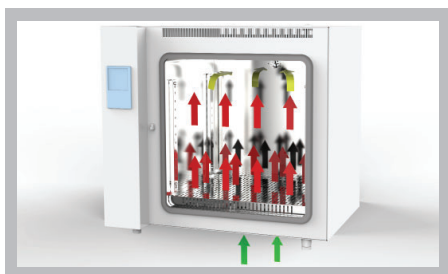
Robust overcurrent and ground-fault protection

Laboratories need their electronic equipment to run precisely; otherwise, overheating can damage their experiments and equipment, shock the user, or cause a fire. All BEING EOF and EON ovens are equipped with high-quality fuseholders and fuses to protect against overcurrent, overloads, and short circuits while meeting international electrical standards.



Chamber air circulation (EOF Series)

Ambient air is drawn in through the incubator's back. Pulled over the heating element and blown to the front of the chamber. Reflects off the door and expelled through the exhaust port.



Chamber air circulation (EON Series)

Ambient air enters the chamber through the incubator's bottom. It's heated as it passes over the heating element. The heated air rises and is naturally drawn to and exits the exhaust port in the incubator's back.



Temperature test hole (EON Series)

An Ø5mm OD external temperature probe can be inserted into the drying chamber to validate temperature settings to the actual chamber temperature.

Forced-air Convection Drying Oven

Model	EOF-50	EOF-70	EOF-140
Catalog number	EO242050U	EO242070U	EO242140U
Chamber Volume (ft ³ / L)	1.8 / 50	2.8 / 80	4.8 / 136
Temperature Range	Ambient + 18°F - 482°F / Ambient + 10°C - 250°C		
Display Resolution	0.1		
Uniformity (@150°C)	±2.0		±2.5
Temperature Stability	±0.5 (@150°C)		
Time to reach 150°C	40 min		
Soak Timer (hh:mm)	00:01 – 99:59		
Shelves (Std. / Max.)	2 / 6	2 / 9	2 / 11
Shelves Loading (lb / Kg)	33 / 15		
Shelf Part Number*	001A060070	001A060071	001A060080
Net Weight (lb / Kg)	77 / 35	108 / 49	150 / 68
Internal Dimension (W×H×D) (in / mm)	16.5 × 13.8 × 15.6 420 × 350 × 395	17.7 × 17.7 × 15.8 450 × 450 × 400	21.7 × 21.7 × 17.7 550 × 550 × 450
External Dimension (W×H×D) (in / mm)	28.3 × 20.5 × 20.9 720 × 520 × 530	29.1 × 24.8 × 20.9 740 × 630 × 530	33.1 × 28.7 × 22.8 840 × 730 × 580
Electrical Requirement	120V/60Hz	120V/60Hz	120V/60Hz
Electrical Plug Type	NEMA 5-15	NEMA 5-15	NEMA 5-20
Power Consumption	1200W	1650W	2150W
Materials of Construction			
Shell	20 AWG (1mm) SPCC-SD FB Electrostatic Spray Epoxy Polyester Resin Powder Coat		
Insulation	Rockwool		
Chamber	20 AWG (1mm) 304 Stainless Steel with Mirror Finish		
Shelf Bracket Hanger	20 AWG (1mm) 304 Stainless Steel with Mirror Finish		
Shelf Bracket	304 Stainless Steel Wire		
Shelf	304 Stainless Steel Wire		
Door Seal	Silicone		

*The shelf kit includes the shelf and two (2) shelf bracket.

NOTE: All specifications listed are based on testing done at 25°C.



Natural Convection Drying Oven

Model	EON-50	EON-90
Catalog Number	EO241050U	EO241090U
Chamber Volume (ft ³ / L)	1.1 / 30	1.8 / 50
Temperature Range	Ambient + 18°F - 392°F / Ambient + 10°C - 200°C	
Display Resolution	0.1	
Uniformity (@150°C)	±2.5	
Temperature Stability	±0.5 (@150°C)	
Time to reach 150°C	50 min	
Timer (hh:mm)	00:01 – 99:59	
Shelves (Std. / Max.)	2 / 8	2 / 11
Shelves loading (lb / Kg)	44.1 / 20	
Shelf Part Number*	001A060062	001A060063
Net Weight (lb / Kg)	128 / 58	154 / 70
Internal Dimension (W×H×D) (in / mm)	15.8 × 16.3 × 13.0 400 × 415 × 330	17.7 × 19.9 × 16.9 450 × 505 × 430
External Dimension (W×H×D) (in / mm)	21.3 × 28.3 × 21.7 540 × 720 × 550	23.2 × 31.9 × 25.6 590 × 810 × 650
Electrical Requirement	120V/60Hz	120V/60Hz
Electrical Plug Type	NEMA 5-15	NEMA 5-15
Power Consumption	1200W	1600W
Materials of Construction		
Shell	20 AWG (1mm) SPCC-SD FB Electrostatic Spray Epoxy Polyester Resin Powder Coat	
Insulation	Rockwool	
Chamber	20 AWG (1mm) 304 Stainless Steel with Mirror Finish	
Shelf Bracket Hanger	20 AWG (1mm) 304 Stainless Steel with Mirror Finish	
Shelf Bracket	304 Stainless Steel Wire	
Shelf	304 Stainless Steel Wire	
Door Seal	Silicone	

*The shelf kit includes the shelf and two (2) shelf brackets.

NOTE: All specifications listed are based on testing done at 25°C.

BEING's portfolio of laboratory equipment includes.

Incubators

BIF Series - Mechanical Convection Incubator
BIT Series - Natural Convection Incubator
BIC Series - Cooling Incubator

Ovens

BOF Series - Forced-air Drying Oven
BON Series - Natural Convection Drying Oven
BOV Series - Vacuum Oven
EOF Series - Forced-air Drying Oven
EON Series - Natural Convection Drying Oven

Shakers

BS Series - Orbital Shaker
BIS Series - Incubated Shaker

Stirrers

BMS Series - Square Plate Heated Magnetic Stirrer

Water Bath

BWB Series - General Purpose Water Bath
BWB Series - Dual Chamber Water Bath
BWZ Series - Shaking Water Bath
BPC Series - Heat/Cooling Circulating Bath
BRC Series - Recirculating Chiller

Pumps

V Series - Diaphragm Pumps

Learn more at www.beinglab-usa.com
The 'Smart Choice' for laboratory equipment.

Your local dealer is.

EOF/EON Ovens Brochure-V2-092025

Contact us



BEING Scientific Inc.

800 N. Haven Ave., Suite 428
Ontario, CA 91764

T: 800.278.1390
E: sales@beinglab-usa.com
www.beinglab-usa.com

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