

ECONOMICAL LABORATORY DRYING OVEN (200°C)



Economical Laboratory Drying Oven (200°C) - ToronOVEN™ EL2

ToronOVEN™ EL2 is a reliable, entry-level forced-air blast drying oven built for everyday laboratory and light industrial use. Offering a temperature range up to 200°C across six capacity options — from a compact 23 L bench-top unit to a 456 L floor-standing model — the ToronOVEN™ EL2 delivers consistent thermal performance without unnecessary complexity, making it the smart choice for routine drying, sterilization, and heat-treatment applications.

The ToronOVEN™ EL2 drying oven is engineered for dependable, everyday thermal processing in laboratories, quality-control departments, and light production environments. Powered by the PMMA I control system, it provides straightforward temperature regulation, countdown timing, and over-temperature alarm protection — everything needed for routine workflows without the overhead of advanced programming.

The mirror-finish stainless steel inner chamber with freely adjustable shelving accommodates a wide variety of sample sizes and load configurations, while the cold-rolled steel exterior with an electrostatic powder-coat finish ensures long-term durability. A glass observation window on the door allows users to visually monitor chamber contents at any time, and the rotating two-stage door locking structure maintains a consistent, tight seal throughout each cycle.

Preheating chamber design and power-supply recovery functionality protect ongoing processes from interruption, ensuring reproducible results run after run. Whether deployed as a standalone bench-top blast drying oven or scaled up to a large-capacity floor unit, the ToronOVEN™ EL2 delivers the reliability that daily laboratory work demands.

APPLICATIONS

Economical Laboratory Drying Oven (200°C) - ToronOVEN™ EL2 Applications

The ToronOVEN™ EL2 precision drying oven is well suited to a wide range of routine and specialized thermal processing needs, including:

- Sample drying & dehydration
- Moisture content determination
- Dry heat sterilization of glassware
- Annealing & stress relief
- Curing of coatings & resins
- Pharmaceutical drying
- Material & polymer conditioning
- Electronics component baking
- Food science & agriculture research
- Quality control & incoming inspection



FEATURES

Economical Laboratory Drying Oven (200°C) - ToronOVEN™ EL2 Key Features

- Cold-rolled steel exterior with electrostatic powder-coat finish for long-term corrosion resistance; mirror-finish stainless steel inner chamber with freely adjustable shelving to accommodate diverse sample sizes and load arrangements
- PMMA I control system provides straightforward, reliable management of temperature setpoint, countdown timer, and over-temperature alarm — covering all essential functions for routine drying oven workflows
- Glass observation window on the door allows continuous visual monitoring of chamber contents at any time without opening the door and disturbing the thermal environment
- Heavy-duty door with rotating two-stage locking structure ensures a consistent, airtight seal throughout each cycle, minimizing heat loss and maintaining chamber temperature stability
- Preheating chamber design thermally conditions incoming air before it enters the main workspace, improving temperature uniformity across the chamber and reducing thermal stabilization time after door openings
- Power-supply recovery function automatically restores the last active temperature setpoint after an unexpected power interruption, protecting long-duration unattended processes from disruption

THEORY & METHOD

Theory and Method

The ToronOVEN™ EL2 operates on the principle of forced-air convection. An electrically powered heating element raises the temperature inside the working chamber, while an internal fan continuously circulates heated air to eliminate thermal stratification and deliver uniform heat distribution across the entire usable workspace. This blast drying approach provides faster and more even heat transfer than passive gravity-convection designs, making it far more effective for moisture removal, sterilization, and material conditioning.

A resistance temperature detector (RTD) sensor continuously monitors the chamber temperature and feeds real-time data back to the PMMA I microprocessor controller. The controller adjusts heater output to maintain the user-defined setpoint with a fluctuation of no more than $\pm 1^{\circ}\text{C}$ at 105°C . An independent over-temperature alarm circuit provides an additional layer of protection: if the chamber temperature exceeds the user-configured safety threshold, the system triggers an audible and visual alert, guarding both samples and equipment from thermal damage.

The preheating chamber design conditions intake air before it enters the main workspace, further narrowing temperature gradients and shortening warm-up time. When power-supply recovery is enabled, the drying oven automatically reinstates its last active temperature setpoint following an unexpected power interruption — a critical safeguard for unattended, long-duration drying cycles. Together, these features make the ToronOVEN™ EL2 a dependable and predictable workhorse drying oven for everyday laboratory operations.

TECHNICAL SPECIFICATIONS

Economical Laboratory Drying Oven (200°C) - ToronOVEN™ EL2 Technical Specifications

Parameter	ToronOVEN™ EL223	ToronOVEN™ EL240	ToronOVEN™ EL276	ToronOVEN™ EL2142	ToronOVEN™ EL2234	ToronOVEN™ EL2456
Volume (L)	23	40	76	142	234	456
Temperature Range (°C)	RT+5 ~ 200					

Parameter	ToronOVEN™ EL223	ToronOVEN™ EL240	ToronOVEN™ EL276	ToronOVEN™ EL2142	ToronOVEN™ EL2234	ToronOVEN™ EL2456
Temp. Resolution (°C)	1					
Temp. Fluctuation at 105°C (°C)	±1					
Temp. Uniformity (%)	±2.5					
Heating Rate to 180°C (°C/min)	>4					
Rated Power (W)	750	950	1,350	1,750	2,150	3,000
Voltage (V, Hz)	220 ±10%, 50 ±2% (110V is also available)					380, 50
Timer Range (min)	0 - 999					
Interior Dimensions W×D×H (mm)	300×285×275	350×330×350	450×380×450	550×470×550	600×520×750	600×585×1,300
Exterior Dimensions W×D×H (mm)	568×447×452	640×556×505	740×606×605	840×696×705	890×746×905	780×710×1,745
Shelves — Standard / Max (pcs)	2 / 3	2 / 4	2 / 5	3 / 7	3 / 10	3 / 6
Max Load per Shelf (kg)	15					
Net Weight (kg)	30	37	50	68	88	176
Gross Weight (kg)	38	47	61	91	111	204
Package Size (mm)	710×620×590	740×696×645	840×746×745	960×856×855	1,010×906×1,055	910×880×1,930



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

