



EWR Series Enhanced Duty Walk-In Ovens

LEWCO's Enhanced Duty Batch Ovens offer all of the same construction features as the standard duty ovens; however the performance is "enhanced" by adding additional heat capacity and larger circulation fans. Additionally, all enhanced duty walk-in ovens guarantee a temperature uniformity of +/- 10°F. The EWR series features a rear mounted heater box, which is ideal for installations with height restrictions. Enhanced duty ovens can be configured with electric or direct fired natural gas heat and are available in various temperature ranges up to 1,200°F. Each unit comes complete with a one year limited warranty and is fully assembled, wired, and tested prior to shipment. All LEWCO ovens are manufactured to meet the requirements of NFPA 86, the national standard for ovens and furnaces.

Temperature Ranges

- Up to 350°F
- 351°F to 500°F
- 501°F to 650°F
- 651°F to 800°F
- 801°F to 1,000°F
- 1,001°F to 1,200°F

Available Sizes

- The EWR series is offered in (31) standard sizes with workspace dimension ranging from:
 - Width: 48" – 120"
 - Depth: 48" – 168"
 - Height: 60" – 120"

General Construction

- 16 ga. aluminized steel interior
- 18 ga. cold rolled steel exterior
- Heat loss is minimized by a unique wall design featuring a welded inner shell and a completely isolated outer frame and covers.

Doors

- Heavy-duty doors on an isolated door frame minimize heat loss. Wire core gaskets create a tight seal for efficient heating.
- Explosion venting latches
- Standard: Bi-parting swing doors
- Optional:
 - Vertical Guillotine door
 - Door Windows

Floor

- Standard: 12 ga. plate floor for ovens up to 500°F. Ovens over 500°F feature an insulated floor (100 p.s.f. max).
- Optional:
 - 12 ga. plate floor with (1) pair inverted angle track
 - 12 ga. plate floor with (1) pair 6" wide wheel guides
 - Insulated with (1) pair inverted angle track
 - Insulated with (1) pair 6" wide wheel guides
 - No floor

Input Voltage

- Standard: 480/3/60
- Please consult factory for other available options.

Controls

- Standard: Single-point process temperature controller and redundant high-limit controllers housed in a NEMA 12 enclosure with full voltage lockable disconnect.
- Optional:
 - Door switch
 - Batch timer
 - Ramp/ soak controller
 - Data logger/ chart recorder
 - Zero speed switch for fans
 - Composite curing controls

Finish

- Standard: Blue or gray alkyd oil base paint
- Optional: Premium finish for corrosive areas

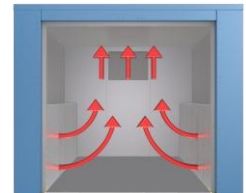
Heating Medium Options

- **Electric Heat**
 - Low watt density Incoloy® heaters with brass jumpers provide years of trouble free service.
 - Standard heater bank assemblies are installed in high velocity ductwork to maximize heat transfer.
 - Removable cover plates create easy access for maintenance and service.
- **Natural Gas**
 - Standard: Direct fired natural gas, modulating burner with direct coupled, digital actuated control valve provides visual indication of valve position.
 - High turndown ratio allows rapid heat-up and tight temperature control over a wide range of operating temperatures.
 - Low CO and NOX emissions relative to similar burners.
 - Factory Mutual (FM) compliant fuel train.

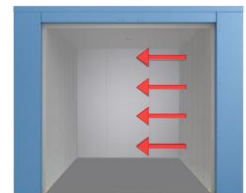
Airflow Patterns

- Available in dual or horizontal airflow. Features a high volume circulation fan with TEFC motor and motor starter to efficiently deliver heat to the oven workspace.

- **Dual Airflow:** Hot air is supplied from both side walls and returned through a top plenum. This is the most versatile and common airflow configuration for batch ovens. However, the configuration of the parts being heated must be considered. There must be adequate space around the parts, or openings through the parts, to permit air to flow to the top return plenum.



- **Horizontal Airflow:** Hot air is supplied from one side wall and pulled across horizontally to the opposite side wall. Horizontal airflow is selected when the parts being heated are contained on multiple shelves. This is also a good selection if trying to pull the air directly through a part, such as cylinders, pipes, tubes, etc.



About NFPA Class A & B

- The National Fire Protection Association's standard, NFPA 86, documents the guidelines for the safe operation of industrial ovens and furnaces. All LEWCO Ovens are designed and manufactured to meet the requirement of this standard.
- Ovens and furnaces in which flammable volatiles or combustible materials are present in the work space are classified by NFPA 86 as "**Class A.**" Similarly, ovens and furnaces in which no flammable volatiles or combustible materials are present are considered "**Class B.**" Due to the risk of fire or explosion, NFPA 86 requires specific safety equipment for all Class A ovens and furnaces. Fuel gas-fired ovens and furnaces also require safety equipment.
 - Powered exhaust of capacity determined by burner size and solvent load present.
 - Explosion relief of adequate area determined by oven or furnace workspace volume.