

## Standard Construction Features

### Oven Body

- Heat losses are minimized by a unique wall design featuring a welded inner shell and a completely isolated outer frame and covers.
- 16 ga. aluminized inner shell
- 18 ga. CRS exterior, primed and painted

### Doors

- Heavy-duty doors on an isolated door frame assure a positive door seal throughout the heating cycle.
- Large diameter, wire cored gasket
- Explosion venting latches for ovens operating below 800°F.

### Air Circulation

- High volume circulation fan efficiently delivers heat to the oven work space.
- Belt drive fan design operates cooler for improved service life.
- Rugged 18 ga. aluminized steel duct work
- Integral plenums provide uniform heat distribution throughout the oven.
- Plenum covers are easily removable to facilitate thorough cleaning.

### Electric Heating System

- Low-watt density Incoloy® sheathed, heating elements connected with brass jumpers extends heater life.
- Standard heater bank assemblies are installed in high velocity ductwork to maximize heat transfer and resulting oven efficiency.
- Large access cover to facilitate maintenance & service work

### Gas Burner & Fuel Train

- Direct fired, modulating burner with direct coupled, digital actuated control valve providing 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

### Controls

- Safety interlock circuit, shuts oven down under the following conditions:
  - Over temperature
  - Circulating fan failure
  - Exhaust fan failure
- Complete control panel is designed and wired to meet the requirements of both, NFPA 70 - National Electric Code, and NFPA 79 - Electrical Standard for Industrial Machinery.

### Quality Assurance

- Every LEWCO Oven is fully assembled, wired, tested, and inspected prior to shipment.
- One year limited warranty
- Detailed, reader friendly, installation, operation, and maintenance manual
- Equipment is designed and manufactured under ISO 9001:2008 Quality System.

### Industry Standards

- 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.