High Temperature
Cabinet Ovens

These units, backed by years of experience, quality construction and precise engineering, provide exceptional temperature uniformity. Ruggedly built for long hard usage at elevated temperatures. A choice of two air flow patterns and eight sizes from 4.6 to 72 cubic feet.

STANDARD FEATURES

- **UL LISTED CONTROL PANEL**
- **Standard Cabinet Ovens from Grieve meet the requirements of National Fire Protection Association Standard 86, Industrial Risk Insurers, Factory Mutual and OSHA standards. For some applications, such as those involving flammable solvents or hazardous locations, the above organizations require additional safety devices.**
- **Controls**
  - Digital, microprocessor based, thermocouple actuated, indicating temperature controller
  - Modulating burner on gas ovens
  - Motor control push buttons and on-off heat switch
  - LED pilot lights
- **Safety Equipment—Electric Oven**
  - Adjustable, thermocouple actuated, manual reset excess temperature interlock
  - Separate heating element control contactors
  - Recirculating blower air flow safety switch
- **Safety Equipment—Gas Oven**
  - Adjustable, thermocouple actuated, manual reset excess temperature interlock
  - Solid state electronic flame safeguard protection
  - Stainless steel powered forced exhauster
  - Exhauster air flow safety switch
  - Recirculating blower air flow safety switch
  - Purge timer
  - High gas pressure switch
  - Low gas pressure switch
  - Two pilot safety shutoff valves with leak test stations
  - Two main safety shutoff valves with leak test stations*
  - Valve position indicator on main safety shutoff valves
  - Over 400,000 BTU/HR safety shutoff valve interlocked with purge timer
- **Construction**
  - Choice of recirculating air flow patterns
  - Adjustable opposed louvers on full coverage supply and return duct work
  - 16 gauge 304 stainless steel interior
  - Aluminized steel exterior with enamel finish
  - Brushed stainless steel control panel face
  - Exceptionally heavy duty doors and door frame with explosion venting latches
  - High temperature inner and outer door gaskets with stainless steel spring insert
  - Insulated with 2” thick 1900°F insulating block, backed up with 10 lbs/cf density 1250°F industrial rockwool
  - Two (2) stainless steel shelves
  - Channel shelf supports prevent shelves tipping
  - Adjustable fresh air intake and exhaust dampers
  - High pressure stainless steel recirculating blower
  - All welded construction
  - 1 year limited warranty
- **Every oven fully assembled and individually factory tested**

*Industrial Risks Insurers vent valve only provided at specific request

Specifications Subject to Change Without Notice
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**STANDARD EQUIPMENT**

- **All Models**
  - 208 volts, 3-phase, 60 Hz
  - 230 volts, 3-phase, 60 Hz
  - 460 volts, 3-phase, 60 Hz
  - 5kA short circuit current rating (SCCR)
  - Other electrical characteristics available

- **Inner and Outer Door Gasket**
  - Inner gasket seals directly against door plug, outer gasket against oven frame.

- **Gas Models**
  - 1,000 BTU natural gas at 6' water column pressure, 115V-15A NPT inlet (1/8" on HC Series)
  - Other gas characteristics available

- **Control Panel**
  - As detailed above and safety devices as listed on the front of this bulletin.
  - Automatic ignition purging period and push button electric ignition contributes to ease of operation.

- **Additional Equipment Available**
  - **Additional Shelves**, 200 lbs distributed load per shelf, 800 lbs maximum oven load, specify oven model when ordering.
  - **Programmable Temperature Controller**, microprocessor based, digital indicating, thermocouple actuated, in lieu of standard controller.
  - **Recording Thermometer**, thermocouple actuated, 24-hour, 10" diameter circular chart used in conjunction with standard controller.
  - **Digital Timing Temperature Controller**, microprocessor based, digital indicating, incorporates 99 hour 59 minute timer, starts timing when temperature reaches set point and shuts down oven at end of set time.
  - **Digital Batch Timer**, for uniformly timing batch operations. Continuous alarm with door interlock; alarms at end of preset time period until door is opened or timer reset.
  - **Roof Mounted Powered Forced Exhaustors** with exhaust air flow safety switch.

**ADDITIONAL EQUIPMENT AVAILABEO**

- **H SERIES**
  - Horizontal Air Flow
  - These electric or gas-fired models come in six sizes. They feature full horizontal air flow for shelf processing at temperatures to 1250°F. Commonly used where work is shelf loaded and least restriction to free air passage is in the horizontal direction.

- **V SERIES**
  - Vertical Air Flow
  - These electric or gas-fired models come in two sizes. They feature full vertical air flow for processing at temperatures to 1250°F. Used where least restriction to free air passage is in the vertical direction. Heated air is supplied at the bottom of the work space and sweeps upward through the work load. Ideal for hanging long parts or applications requiring heated air to pass both around the outside and through the middle of parts such as open ended cylinders.

**Circulation Diagrams**

- **H Series (Front View)**
  - Heated air is blown sideways between shelves and across parts.

- **V Series (Side View)**
  - Heated air is provided at the bottom and pulled upward through shelves and load.