

Pollution Control Products

Automatic Temperature Control Ovens & Furnaces

For parts with up to 25% combustibles
Maximum 800°F (427°C)

RateControlled models allow you to strip parts with greater loads of combustibles, even oil-soaked transformers. RateControlled models combine all of the features of Controlled Pyrolysis® models with a more advanced system of detecting overheating.



The rate controlled ovens are an excellent choice for varying load sizes or highly combustible amounts. They have faster overheat response times than the controlled pyrolysis ovens and are built to FM standards with high fire afterburner.

The RateControlled model's advanced temperature control system detects overheating when it begins, allowing processing of materials that are difficult if not impossible to control, such as volatile combustibles like oil-soaked transformers, partially-cured paint films on grates, and other hard-to-process materials. Some combustibles start to decompose at lower temperatures than others and, therefore, more difficult to keep from igniting. The RateControlled System monitors the rates of furnace temperature increase, the afterburner temperature and the rate of smoke emission. Should any of these accelerate too fast, the rate controllers turn on the water spray to restore safe operation. The rate controllers are factory-set and require no operator input.

Key Features

- Automatic time cycles ensure that the furnace runs for only as long as it takes the process to load.
- Automatic Cool-down
- Larger loads can be processed more quickly
- The Rapid heat afterburner helps to increase the processing rate of the smoke being generated during operation.
- Safety requirements set by insurance companies and EPA are met through the use of door switches, purge times, extra gas valve and high/low gas pressure switches.

RateControlled Model Features

- **Automatic Time Cycle** runs the furnace only as long as it takes to process the load. **Standard**
- **Fully Automatic.** No cycle time or ramp recipe to select. **Standard**
- **Automatic Cool-Down** if the secondary burner fails. Back-Up Water Spray. **Standard**
- **Processes larger loads** in shorter times. **Standard**
- **Processes more volatile loads** with digital controllers. **Standard**
- **Rapid Heat Afterburner** raises standard afterburner temperature from 1500°F to 1650°F, increasing the processing rate of the smoke generated. **Standard**
- **Rapid Heat Afterburner** required by EPA in some states. **Standard**
- **Diagnostic Panel** indicator lights reflect the operational status of the oven and its controls and pin-points the problem. **Standard**
- **Door Switch, Purge Time, Extra Gas Valve and High/Low Gas Pressure Switches** enhance burner safety required by some insurance companies. **Standard**
- **Water Pressure Switch** stops primary burner if water supply fails. **Standard**

Specifications and Data

Cabinet: Heavy-gauge sheet steel supported by structural steel angles and channels. All-welded construction with sealed seams to prevent leakage give maximum fuel economy.

Floor: Hard castable refractory. 3?- 4? thick, reinforced with structural steel channels. Allows easy removal of ashes.

Doors: Equipped with cam-type lock assemblies, tadpole sealing gaskets, and stay-open hooks. Doors open 270°.

Explosion Relief: Unique gravity-sealed top relief automatically opens to relieve excess pressure, then closes, preventing air from reaching combustible material.

Insulation: Walls, ceiling, and doors covered with 3? of a two-layered lightweight ceramic fiber blanket insulation anchored on stainless pins, wire mesh and locking washers. Contains no asbestos. Perforated metal liner protects insulation from mechanical damage. Furnace insulation rated at 2300°F (1275°C).

Vent Stacks: Made in 36" long lightweight sections for easy erection. Stainless steel metal exterior lined with high-temperature ceramic fiber in hard form. Sections snap together.

Fuels: Natural gas, Propane gas, or #2 fuel oil. Gas pressure requires: 11 inches W.C.

Electrical Service: 110-125 volts, 50-60 hertz, single-phase, 5-10 amp. draw.

Water Supply: Minimum pressure 40 psi; maximum 100 psi for water injection system. Maximum flow rate 5-7gpm (liter/min.)

Normal Cycle time: 3-5 hours plus cooling time. Timer adjustable 0-12 hours with dual frequency dial for 50 and 60 hertz. (Automatic features available)

Normal Cycle Temperature: 750°-800°F (399-430°C)

Pollution Standards: Meets latest E.P.A. Standards.

Safety and Health Standards: Meet latest O.S.H.A. Federal Standards. Can be equipped to meet 86

Insurance Standards: Meets most state and local code. Can be equipped to meet Factory Mutual or IRI Standards.

Anti Corrosive Vapor Barrier: Prevents corrosive vapors from condensing on inside furnace walls. Greatly extends useful life of furnace.

Combustion Chamber Protection Guard: A heavy-duty steel barrier, built around the upper and lower combustion chambers, protect from errant or careless loading.

Multi Style Cart Available: Can uniquely meet your individual loading requirements through several different cart styles (standard with oven).

Commercial Gas Burner: Designed specifically for incinerator and other similar applications. Features include superior no-clog nozzle design, easy maintenance, and heavy-duty construction. Burners are equipped with a patented automatic self-cooling system that inhibits burner damage.

Authorized PCP Distributor Sales, Installation & Service



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