

# High Temperature Bench Ovens

**800°F AND 1000°F  
HIGH TEMPERATURE  
BENCH OVENS**

## **ALL MODELS IN STOCK**

Designed to fill the need for economically priced ovens for medium and high temperature processes, such as tempering and stress relief.

## **STANDARD FEATURES**

- 304 Stainless steel interior
- Incoloy sheathed tubular heating elements
- Sturdy steel construction
- High temperature, resilient door gasket with stainless steel spring insert
- Analog, thermocouple actuated, temperature controller
- Adjustable, thermocouple actuated, manual reset excess temperature controller
- On-off heat switch
- Red pilot light indicates heater operation
- Brushed stainless steel exterior
- 6 lb/cf density industrial rockwool insulation
- 3-wire cord and plug on 115 volt models
- Fully factory tested
- 1 year limited warranty

## **MODEL NT-800**

Provides 4.3 cubic feet of work space at temperatures to 800°F. Double doors for easy loading of large parts or baskets. Includes two (2) removable nickel plated wire shelves easily adjustable on 2" centers. Holds a maximum of six (6) shelves. Widely used for medium temperature applications such as tempering and relieving hydrogen embrittlement from plated parts.

## **MODEL NTR-800**

Identical to Model NT-800, but also includes a recirculating blower to improve temperature uniformity and reduce heat-up time of oven and parts.

## **MODEL NT-1000**

Similar to Model NT-800, but provides temperatures to 1000°F. Includes two (2) removable 304 stainless steel shelves. Ideal for high temperature processes such as preheating prior to welding or stress relief of steel springs and stampings.

## **MODEL NTR-1000**

Same as Model NT-1000, plus recirculating blower system to improve temperature uniformity and reduce heat-up time of oven and parts.



**MODEL NT-800**  
WITH OPTIONAL DIGITAL MICROPROCESSOR  
BASED INDICATING TEMPERATURE CONTROLLER



**MODEL NTR-1000**  
WITH OPTIONAL OVEN STAND

# SPECIFICATIONS

NOT FOR USE WITH FLAMMABLE SOLVENTS OR VAPORS. OTHER MODELS AVAILABLE FOR THESE APPLICATIONS—PLEASE CONSULT FACTORY.

Model	Work Space		Outside Dimensions (WxDxH)	Maximum Temperature	Insulation	Watts		Operating Characteristics†				Approx Shipping Weight
	Dimensions (WxDxH)	Volume Cu Ft				115V*	208V 230V	Control Accuracy	Oven Uniformity	Rise Time		
										115V	230V	
NT-800	26" x 22" x 13"	4.3	39½" x 34" x 30"	800°F	4"	2400	3000	±0.5%	±20°F	60 min	45 min	310 lbs
NTR-800	26" x 22" x 13"	4.3	39½" x 34" x 30"	800°F	4"	2400	3000	±0.5%	±15°F	55 min	40 min	310 lbs
NT-1000	26" x 22" x 13"	4.3	41½" x 35" x 31"	1000°F	5"	2400	3000	±0.5%	±25°F	105 min	75 min	335 lbs
NTR-1000	26" x 22" x 13"	4.3	41½" x 35" x 31"	1000°F	5"	2400	3000	±0.5%	±20°F	95 min	65 min	335 lbs

\*Requires 30 ampere service on 115 volts.

†Accuracy as percent of controller span. Uniformity at 50°F below maximum temperature. Rise Time in minutes to 50°F below maximum temperature. Tests run with empty oven and minimum exhaust. Performance will vary with load, exhaust rate and application. See Bulletin TC-920 for additional details.

## STANDARD EQUIPMENT

### • Standard Electrical Characteristics

- 115 volts, 60 Hz, 3-wire cord with plug
- 208 volts, 1-phase, 60 Hz
- 230 volts, 1-phase, 60 Hz
- Other electrical characteristics available

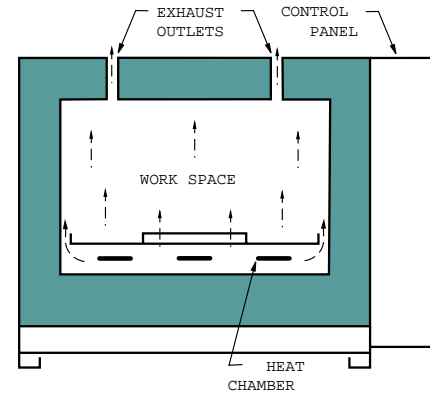
### • Standard Temperature Control System

Analog, thermocouple actuated, main temperature controller regulates desired oven temperature. Independent manual reset excess temperature controller, adjustable over temperature range of oven, protects against failure of main temperature controller. Separate heating element relay protects against failure of main control relay. On-off switch located on panel controls electrical power to oven. Red pilot light indicates heater operation.

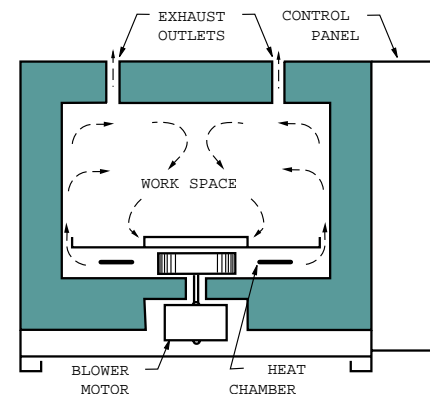
## ADDITIONAL EQUIPMENT AVAILABLE

- **Additional Shelves**, 20 lbs distributed load per shelf, 40 lbs maximum oven load, specify oven model when ordering.
- **Digital Indicating Temperature Controller**, microprocessor based, thermocouple actuated, in lieu of standard controller ..... **DIG2**
- **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 ..... **DTS2**
- **Programmable Temperature Controller**, microprocessor based, digital indicating, thermocouple actuated, in lieu of standard controller ..... **PTC2**
- **Recording Temperature Controller**, thermocouple actuated, 24-hour, 10" diameter circular chart, in lieu of standard controller ..... **RTC2**
- **Programmable Recording Temperature Controller**, microprocessor based, thermocouple actuated, digital display, 24-hour, 10" diameter circular chart, in lieu of standard controller ..... **PRTC2**
- **Shut Down Timer**, with continuous "hold" feature
  - 60 minute range ..... **BTMR60**
  - 12 hour range ..... **BTMR12**
- **Oven Stand**, raises unit to convenient 31" work level  
Shipped separately, requires assembly ..... **STNDNT**
- **Exhaust Chamber Adapter** to fit standard 3" stove pipe.  
Shipped separately, requires assembly ..... **BEXCH**

### Circulation Diagrams (Front View)



**NT Series**  
Heated air rises by natural convection from heating element beneath drip pan at bottom of work space.



**NTR Series**  
Air is pulled from work space by recirculating blower, blown by heating element, and returned to work space along sides of drip pan.