

Bench Ovens

Economical ovens easily moved to various locations. For processing large parts, baking, drying components after cleaning, dehydration, preheating, curing and other applications requiring circulation of heated air.

STANDARD FEATURES

- Recirculating blower
- 304 stainless steel interior
- Incoloy sheathed tubular heating elements
- Silicone rubber door gasket
- Sturdy steel construction
- Calibrated temperature controller
- Manual reset excess temperature controller
- On-off 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 NB-350

Provides 7 cubic feet of work space at temperatures to 350°F. Includes two (2) removable nickel plated wire shelves easily adjustable on 2" centers. Holds a maximum of seven (7) shelves. Widely used for drying small items, preheating plastics, drying powdered metals, and curing potting compounds. Double doors for easy loading of large parts.

MODEL NB-550

Similar to Model NB-350. Also includes two (2) shelves and will hold a maximum of seven (7) shelves. Provides over 5 cubic feet of work space at temperatures to 550°F. Ideal for high temperature processes such as annealing springs and plated parts.

MODEL DR-350

Specially designed for processing and drying of plastic granules, powdered metal parts and other small parts that must be separated. Eight (8) individual 304 stainless steel drawers keep parts separated and allow individual inspection or removal without opening conventional doors. This reduces heat loss and prevents process interruption. Temperatures to 350°F. Standard drawers have 3/4" diameter perforations on 1 1/4" staggered centers on bottom and sides. Solid drawers also available.

FORCED CONVECTION BENCH OVENS



**MODEL NB-350
WITH OPTIONAL PROGRAMMABLE CONTROLLER**



**MODEL NB-550
WITH OPTIONAL RECORDING CONTROLLER**



**MODEL DR-350
WITH OPTIONAL SHUT DOWN TIMER**

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 | |
| NB-350 | 28" x 24" x 18" | 7 | 41" x 30" x 23" | 350°F | 2" | 2000 | 2000 | ±10°F | ±10°F | 17 min | 17 min | 210 lbs |
| NB-550 | 26" x 22" x 16" | 5.3 | 41" x 30" x 23" | 550°F | 3" | 2400 | 3000 | ±10°F | ±15°F | 32 min | 21 min | 235 lbs |
| DR-350 | 8 Drawers‡ | 4.8 | 41" x 30" x 23" | 350°F | 2" | 2000 | 2000 | ±10°F | ±25°F | 20 min | 20 min | 285 lbs |

*Model NB-550 requires 30 ampere service on 115 volts.
 ‡Eight (8) individual 304 stainless steel drawers each 11½" W x 25" D x 2" H (3½" total height clearance). Perforated metal bottoms and sides standard, solid bottoms and sides available at no additional cost.

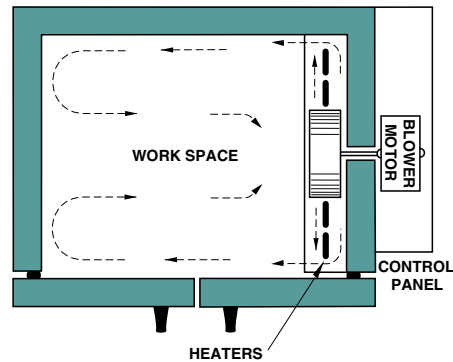
†Uniformity at 50°F below maximum temperature. Rise Time in minutes to 50°F below maximum temperature. Tests run with empty oven and minimum exhaust. Performance will vary with load, exhaust rate and application. See Bulletin TC-920 for additional details.

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**
 Calibrated main temperature controller regulates desired oven temperature. Independent manual reset excess temperature controller protects against failure of main temperature controller. On-off switch located on panel controls electrical power to oven. Red pilot light indicates heater operation.

Circulation Diagram (Top View)



ADDITIONAL EQUIPMENT AVAILABLE

- **Additional Shelves**, 20 lbs distributed load per shelf, 40 lbs maximum oven load, specify oven model when ordering.
- **Dial Thermometer** 10–290°C, 50–550°F dual scale range**T550F**
- **Digital Indicating Temperature Controller**, microprocessor based, thermocouple actuated, in lieu of standard controller**DIG1**
- **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**DTS1**
- **Programmable Temperature Controller**, microprocessor based, digital indicating, thermocouple actuated, in lieu of standard controller**PTC1**
- **Recording Temperature Controller**, thermocouple actuated, 24-hour, 10" diameter circular chart, in lieu of standard controller**RTC1**
- **Programmable Recording Temperature Controller**, microprocessor based, thermocouple actuated, digital display, 24-hour, 10" diameter circular chart, in lieu of standard controller**PRTC1**
- **Shut Down Timer**, with continuous "hold" feature
 - 60 minute range**BTMR60**
 - 12 hour range**BTMR12**
- **Set of Eight (8) 304 Stainless Steel Drying Pans**, 11 ½" W x 20" D x 2" H (NB Models only, requires two (2) add'l shelves)**NBPN3**
- **Oven Stand**, raises unit to convenient 31" work level
 Shipped separately, requires assembly**STDNB**
- **Exhaust Chamber Adapter**, to fit standard 3" stove pipe.
 Shipped separately, requires assembly**BEXCH**



Model NB-350, including optional:
 — roof mounted, exhaust chamber adapter
 — drying pans and two (2) additional shelves
 — shut down timer
 — oven stand



Ovens and Furnaces For Industry Since 1949
THE GRIEVE CORPORATION
 500 Hart Road, Round Lake, Illinois 60073-2898 USA
 (847) 546-8225 Fax: (847) 546-9210
 www.grievcorp.com email: sales@grievcorp.com