




**BULLETIN  
WI-505**

**LOW COST  
ELECTRIC AND  
GAS OVENS FOR  
CONVENIENT  
TRUCK LOADING**

# Truck Ovens

Hardworking ovens designed for baking, drying, preheating or any other application where a dependable source of heated air to 550°F is required. Complete with temperature controllers that offer the latest in heat-sensing technology and built-in floor level guide tracks that make truck loading easy.

## STANDARD FEATURES

-  **UL LISTED CONTROL PANEL**
- **Standard Truck 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 controller
  - Separate heating element control contactors
  - Recirculating blower air flow safety switch
- **Safety Equipment—Gas Oven**
  - Adjustable, thermocouple actuated, manual reset excess temperature controller
  - Electronic flame safeguard protection
  - 325 CFM powered forced exhauster for combustion venting
  - 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
- **Construction**
  - Choice of air flow patterns specially adapted for truck processing
  - Aluminized steel interior
  - Aluminized steel exterior with enamel finish
  - Brushed stainless steel control panel face
  - Explosion venting latches
  - 6" of 10 lbs/cf density industrial rockwool insulation
  - Built-in baffles prevent radiant heat
  - Silicone rubber door gasket
  - Insulated floor with truck tracks
  - Adjustable fresh air intake and exhaust dampers
  - High pressure recirculating blower
  - 1 year limited warranty
- **Every oven fully assembled and individually factory tested**



**MODEL TA-550 GAS**  
WITH STANDARD MODULATING BURNER SYSTEM,  
OPTIONAL TRUCK AND SHELVES



**MODEL TBH-550 ELECTRIC**

# SPECIFICATIONS

CAUTION: OVENS PROCESSING COMBUSTIBLE MATERIAL ARE REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION STANDARD 86 TO HAVE A FIRE SUPPRESSION SYSTEM. IF FLAMMABLE SOLVENTS OR VAPORS ARE PRESENT IN AN OVEN, OSHA REQUIRES CONFORMANCE WITH NFPA 86 WHICH DEFINES OVENS FOR THESE APPLICATIONS AS CLASS A OVENS. A POWERED FORCED EXHAUSTER AND OTHER NON-STANDARD SAFETY EQUIPMENT MUST BE ADDED. SEE BULLETIN TC-940 AND CONSULT FACTORY.

Model	Work Space		Outside Dimensions* (WxDxH)	Max Temp	Blower		Insulation	Doors	Heat Input		Operating Characteristics†				Approx Shipping Weight
	Dimensions (WxDxH)	Volume Cu Ft			CFM	HP			KW	BTU/HR	Control Accuracy	Oven Uniformity	Rise Time		
												Electric	Gas		
TA-550	36" x 36" x 60"	45	56" x 67" x 74"	550°F	1000	3/4	6"	Double	18	150,000	± 0.3%	± 5°F	30 min	15 min	2030 lbs
TB-550	48" x 48" x 60"	80	68" x 79" x 74"	550°F	1200	1	6"	Double	24	175,000	± 0.3%	± 5°F	25 min	15 min	2400 lbs
TAH-550	36" x 36" x 60"	45	56" x 67" x 74"	550°F	1600	1 1/2	6"	Double	18	150,000	± 0.3%	± 5°F	30 min	15 min	2130 lbs
TBH-550	48" x 48" x 60"	80	68" x 79" x 74"	550°F	2000	2	6"	Double	24	175,000	± 0.3%	± 5°F	25 min	15 min	2550 lbs

\*All Models—Blower motor overhang 10" rear. Control panel overhang 9" right side.  
Gas Models—Burner overhang 15" right side.

†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 and application. See Bulletin TC-920 for additional details.

## STANDARD EQUIPMENT

- **All Models**
  - 208 volts, 3-phase, 60 Hz
  - 230 volts, 3-phase, 60 Hz
  - 460 volts, 3-phase, 60 Hz
  - Other electrical characteristics available

Insulated floor with truck wheel guide tracks. Aluminized steel interior and Trilite Green enamel painted aluminized steel exterior.

- **Electric Models**

Each features completely wired, side access UL listed control panel enclosing terminals for incoming power, temperature controllers, push buttons and pilot lights. Motor starter and heating element contactors electrically interlocked to shut off heaters if power to blower is interrupted and to permit operation of blower without heat for cooling. Incoloy sheathed tubular heating elements. Exhaust outlet 4" diameter.

- **Gas Models**
  - 1,000 BTU natural gas at 6" water column pressure, 1" NPT inlet
  - Other gas characteristics available

Control panel as detailed above and safety devices as listed on the front of this bulletin. Automatic pre-ignition purge period and push button electric ignition contributes to ease of operation. Modulating gas burner is protected with electronic flame safety relay.

## ADDITIONAL EQUIPMENT AVAILABLE\*

- **Companion Trucks and Shelves**

Oven Model	Truck Shelf Dimensions	Maximum Shelves	Truck		Truck Shelves†
			700 lbs Capacity	1200 lbs Capacity	
TA-550 TAH-550	30" x 30"	12	TRK700TA	TRK1200TA	SHLFTA
TB-550 TBH-550	42" x 42"	12	TRK700TB	TRK1200TB	SHLFTB

†Nickel plated wire shelves rated 100 lbs. uniformly distributed.

- **Programmable Temperature Controller**, microprocessor based, digital indicating, thermocouple actuated, in lieu of standard controller . . . . .**PTC3**
- **Recording Thermometer**, thermocouple actuated, 24-hour, 10" diameter circular chart used in conjunction with standard controller . . . . .**RT**
- **Programmable Recording Temperature Controller**, microprocessor based, thermocouple actuated, digital display, 24-hour, 10" diameter circular chart, in lieu of standard controller . . . . .**PRTC3**

### TA AND TB SERIES

#### Combination Air Flow

These electric or gas models come in two sizes. They feature combination vertical and horizontal air flow for truck processing of various size parts at temperatures to 550°F.

- **TA Series**

Size 36" x 36" x 60" high provides 45 cubic feet of work space. Truck tracks 2" wide, 24" center to center. Optional companion truck holds twelve 30" x 30" shelves on 4" centers.

- **TB Series**

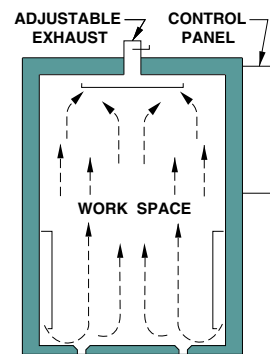
Size 48" x 48" x 60" high provides 80 cubic feet of work space. Truck tracks 2" wide, 36" center to center. Optional companion truck holds twelve 42" x 42" shelves on 4" centers.

### TAH AND TBH SERIES

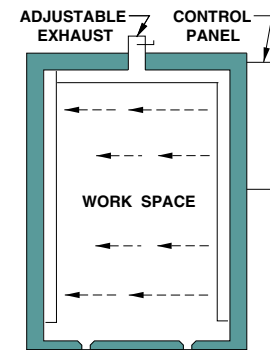
#### Horizontal Air Flow

Similar to TA and TB Series, these electric or gas models feature full horizontal air flow with adjustable patented opposed louvers on full coverage supply and return duct work. Used when vertical air flow through the load is restricted. Ideal for processing flat sheets, pans of parts or when shelves are densely packed.

### Circulation Diagrams (Front View)



**TA and TB Series**  
Heated air is provided from both sides and pulled upward through the load.



**TAH and TBH Series**  
Heated air is blown sideways between truck shelves and across parts.

- **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 . . . . .**DTS3**
- **Digital Shut Down Timer**, with continuous "hold" feature . . . . .**SDT**
- **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 . . . . .**BT**

- **Automatic Door Switch**, turns off blower and heat when door is opened. Restores blower and heat on electric models, blower only on gas models, when door is closed . . . . .**ADS**
- **Roof Mounted Powered Forced Exhausters** with exhauster air flow safety switch†

Capacity	HP	Outlet Diameter	Height
80 CFM	1/8	4"	16"
130 CFM	1/3	4"	20"
325 CFM	1/3	6"	23"
650 CFM	1/2	6"	23"

†Gas ovens include 325 CFM exhauster. Electric ovens may require additional heat input.

\*See Bulletin TC-960 for modifications and other optional equipment.



Ovens and Furnaces For Industry Since 1949  
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