



PRODUCT BULLETIN

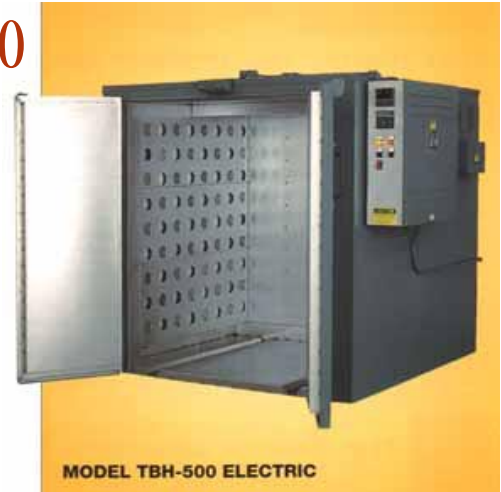
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MODEL TA-500 GAS
WITH STANDARD MODULATING BURNER SYSTEM,
OPTIONAL TRUCK AND SHELVES

TAH, TBH 500 Ovens

Truck Ovens For
Large Capacity
Drying



MODEL TBH-500 ELECTRIC

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

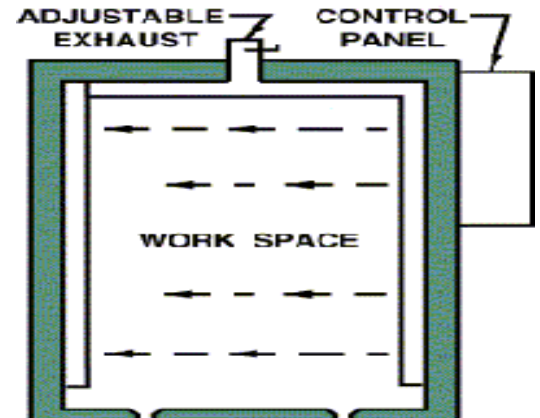
- Digital, microprocessor based, thermocouple actuated, indicating temperature controller
- Modulating burner on gas ovens
- Motor control push buttons and on-off heat switch
- Easy-to-see pilot lights

Safety Equipment — Electric Oven

- Adjustable, thermocouple actuated, manual reset excess temperature controller
- Separate heating element control contactors
- Recirculating blower air flow safety switch

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
- 4" 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



Horizontal Airflow Pattern
In TAH, TBH Ovens

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

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. Alloy wire 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.

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 500°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.

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.

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

Model Number	Dimensions (WxDxH)	Volume CFM	Dimensions* (WxDxH)	Temp	CFM	HP	Location	KW	BTU:HR	Control Accuracy
TA-500	30" x 36" x 60"	45	52" x 63" x 70"	500°F	1000	3/4	4 Double	10	150,000	± 0.3
TB-500	48" x 48" x 60"	80	64" x 75" x 70"	500°F	1200	1	4 Double	24	175,000	± 0.3
TAH-500	36" x 36" x 60"	45	52" x 63" x 70"	500°F	1600	1 1/2	4 Double	18	150,000	± 0.3
TBH-500	48" x 48" x 60"	80	64" x 75" x 70"	500°F	2000	2	4 Double	24	175,000	± 0.3

*All Models Blower motor overhang 10" rear. Control panel overhang 9" right side.
Gas Models Burner overhang 1" 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.

Trucks and Shelves					
Oven Model	Truck Shelf Dimensions	Maximum # Shelves	Truck Number	Truck Capacity	Shelf Capacity
TA-500	30" x 30"	12	TRK700TA	700 Lbs.	100 Lbs.
TAH-500	30" x 30"	12	TRK700TA	700 Lbs.	100 Lbs.
TA/TAH	30" x 30"	12	TRK 1200TA	1200 Lbs.	100 Lbs.
TB-500	42" x 42"	12	TRK1200TB	1200 Lbs.	100 Lbs.
TB-500	42" x 42"	12	TRK700TB	700 Lbs.	100 Lbs.

Shelf standard is nickel plated wire shelf.

OPTIONAL EQUIPMENT FOR OVENS

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

Programmable Recording Temperature Controller, microprocessor based, thermocouple actuated, digital display, 24-hour, 10" diameter circular chart, in lieu of standard controller

Digital Timing System, incorporated into standard temperature controller, 99 hour 59 minute range, starts timing when temperature reaches set point and shuts down oven at end of set time

Shut Down Timer, with continuous "hold" feature; 1, 5, 10 or 30 hour range

Batch Timer, for uniformly timing batch operations. Continuous alarm with door interlock; alarms at end of preset period until door is opened or timer reset; 1, 5, 10, or 30 hour range

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

Roof Mounted Powered Forced Exhausters

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.