



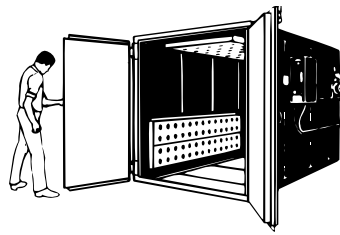
Walk-In Ovens

For paint baking, drying, preheating, annealing or any other heat processing of large or numerous parts at temperatures to 800°F. Oven size conveniently accommodates materials handling equipment. Choice of either combination or full horizontal air flow in either rear or top mounted heat chamber configurations. Designed and constructed for long, hard, continuous use.

STANDARD FEATURES

- **UL LISTED CONTROL PANEL**
- Standard Walk-In 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
 - Powered forced exhauster for combustion venting
 - Exhauster air flow safety switch
 - Recirculating blower air flow safety 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
 - Over 400,000 BTU/HR safety shutoff valve interlocked with purge timer
 - Purge timer
 - High gas pressure switch
 - Low gas pressure switch
- **Construction**
 - Choice of air flow patterns
 - Adjustable opposed louvers on full coverage supply and return duct work
 - Choice of rear or top heat chamber
 - Available with doors at each end
 - Choice of floor configurations, flat plate, insulated floor, truck wheel guide tracks
 - Exceptionally heavy duty doors
 - Aluminized steel interior
 - Aluminized steel exterior with enamel finish
 - High temperature door gasket with stainless steel spring insert
 - 6 lbs/cf density industrial rockwool insulation
 - Brushed stainless steel control panel face
 - 1 year limited warranty
- **Every oven fully assembled and individually factory tested**

*Industrial Risks Insurers vent valve only provided at specific request
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**BULLETIN
WI-510**

**HEAVY DUTY
ELECTRIC AND
GAS OVENS IN
TWO AIR FLOW PATTERNS**



MODEL WTH666-500 ELECTRIC
 WITH OPTIONAL DOUBLE DOORS BOTH ENDS
 AND STEEL PLATE FLOOR WITH DOOR DRAG SEALS



MODEL WRC6106-500 GAS
 WITH STANDARD MODULATING BURNER SYSTEM,
 AND OPTIONAL INSULATED FLOOR WITH
 RECESSED TRUCK TRACKS

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

Aluminized steel interior. Carbon steel structural members and steel plate painted with high temperature aluminum paint. Trilite Green enamel painted aluminized steel exterior.

● **Two air flow patterns available**

Combination air flow for random shapes and sizes or for large bulky objects where heated air can move upward, around and through the load. Horizontal air flow for applications where heated air must move sideways to pass through a load such as trays or flat sheets. See circulation diagrams below.

● **Two oven configurations available**

Rear heat chamber for easy handling, low profile equipment. Top mounted heat chamber to minimize factory floor space occupied or to allow installation of doors at each end. Doors on front and rear allow for pass through operation or for loading from both ends.

To facilitate shipping and handling, top mounted heat chamber ovens are available with removable heat chambers. These ovens are fully assembled and tested. They are then sectioned and match marked for easy reassembly at destination by customer.

Ovens come standard with steel plate floor and doorsill which oven doors seal against. If specified, doorsill can be eliminated and doors provided with drag seals. Up to 6 foot wide work space, plate floor is 1/8" thick. Wider ovens have 1/4" plate floor. Provisions for customer installed insulated floor are included. Optional factory installed insulated floor is available. See Bulletin WI-513.

Optional truck wheel guide tracks for loading equipment are available. Guide tracks can be installed on steel plate floor, recessed into insulated floor, or installed on top of insulated floor. See Bulletin WI-513.

Optional loading trucks specifically designed for use in each oven are available. Loading trucks come in shelf loading models with removable shelves or as heavy duty flat bed models with grating surface. See Bulletin WI-513.

● **Electric Models**

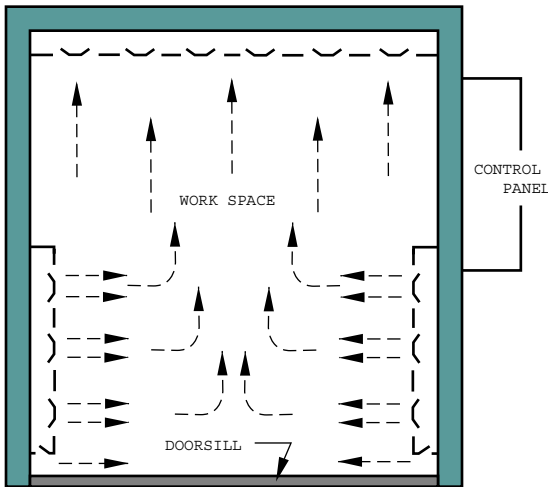
Each features completely wired, side access UL listed control panel enclosing terminals for incoming power, temperature controllers, push buttons and pilot lights. Motor starter and heating element contactors electrically interlocked to shut off heaters if power to blower is interrupted and to permit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

● **Gas Models**

- 1,000 BTU natural gas at 6" water column pressure;
- 1" NPT inlet to 350,000 BTU/HR;
- 1 1/4" NPT to 1,200,000 BTU/HR
- Other gas characteristics available

Control panel as detailed above and safety devices as listed on the front of this bulletin. A 325 CFM powered forced exhauster is included up to 800,000 BTU/HR; at 1,200,000 BTU/HR a 650 CFM exhauster is included. Both exhausters have 6" outlets. 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.

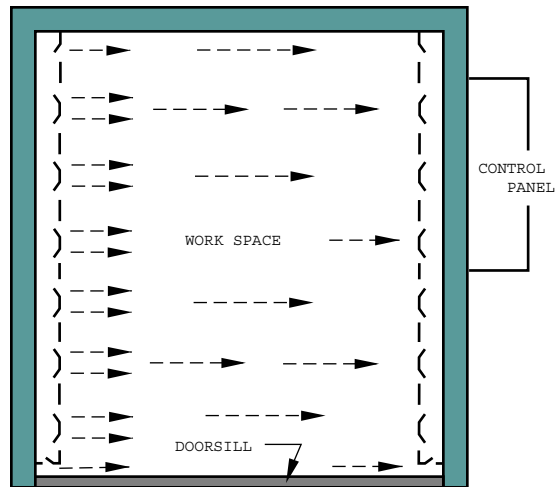
**Circulation Diagrams
(Front View)**



Combination Air Flow

Heated air is provided from full coverage supply duct work at each side of the work space and sweeps upward through the load to a return duct at the top of the work space. Used in most shelf truck loading applications where sufficient shelf area is left open to allow vertical air movement upward through the loaded truck. Ideal for large parts placed directly on oven floor or loaded on a flat bed truck.

See Bulletin WI-511.



Horizontal Air Flow

Heated air is blown horizontally across the work space between full coverage duct work. For shelf truck loading applications with densely loaded shelves, solid bottom trays, or flat sheets where heated air can only pass sideways above and below each level. Also used for heating stacks of plates, separated by spacers, placed on oven floor or loaded on a flat bed truck.

See Bulletin WI-512.

See Walk-In Oven Additional Equipment Bulletin WI-513 for Loading Trucks and Shelves, Insulated Floor and Truck Tracks, Optional Temperature Controllers and Timers.