



## PRODUCT BULLETIN

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# Large Cabinet Ovens AA - AG Series 500 - 1250 Deg F



### STANDARD FEATURES

- **UL LISTED CONTROL PANEL**
- **Standard Universal 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
  - Motor control push buttons
  - On-off heat switch
  - Easy-to-see pilot lights
- **Safety Equipment**
  - Adjustable, thermocouple actuated, manual reset excess temperature controller
  - Separate heating element control contactors
  - Recirculating blower air flow safety switch
- **Construction**
  - Front-to-back horizontal air flow
  - 304 stainless steel interior
  - Aluminized steel exterior with enamel finish
  - Brushed stainless steel control panel face
  - Explosion venting latches
  - All welded construction
  - 10 lbs/cf density industrial rockwool insulation
  - Built-in baffles prevent radiant heat
  - Silicone rubber door gasket on 500°F models only
  - High temperature door gasket with stainless steel spring insert on 650°F and 850°F models
  - Two (2) nickel plated wire shelves
  - Channel shelf supports prevent shelves tipping
  - Adjustable fresh air intake and exhaust dampers
  - High pressure recirculating blower
  - 1 year limited warranty

## 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 NONSTANDARD SAFETY EQUIPMENT MUST BE ADDED.**

Model	Workspace Dimensions (WxDxH)	Overall Dimensions (WxDxH)	Max Temp	Blower CFM	HP	Doors	KW	Oven Uniformity	Rise Time	Ship Weight
<b>AA-500</b>	24" x 24" x 24"	36" x 46" x 32.5"	500°F	400	1/3	Single	5	±5°F	35 min	850 lbs
<b>AA-650</b>	24" x 24" x 24"	40" x 52" x 36.5"	650°F	400	1/3	Single	6.6	±6°F	45 min	1000 lbs
<b>AA-850</b>	24" x 24" x 24"	40" x 52" x 36.5"	850°F	400	1/3	Single	9	±8°F	60 min	1030 lbs
<b>AF-500</b>	24" x 36" x 24"	36" x 58" x 32.5"	500°F	400	1/3	Single	5	±5°F	51 min	1020 lbs
<b>AF-650</b>	24" x 36" x 24"	40" x 64" x 36.5"	650°F	400	1/3	Single	6.6	±6°F	66 min	1170 lbs
<b>AF-850</b>	24" x 36" x 24"	40" x 64" x 36.5"	850°F	400	1/3	Single	9	±8°F	88 min	1200 lbs
<b>AB-500</b>	36" x 36" x 36"	48" x 58" x 44.5"	500°F	600	1/2	Single	6.6	±5°F	61 min	1300 lbs
<b>AB-650</b>	36" x 36" x 36"	52" x 62" x 48.5"	650°F	600	1/2	Single	9	±6°F	70 min	1630 lbs
<b>AB-850</b>	36" x 36" x 36"	52" x 62" x 48.5"	850°F	600	1/2	Single	12	±8°F	83 min	1660 lbs
<b>AG-500</b>	36" x 48" x 36"	48" x 70" x 44.5"	500°F	600	1/2	Single	6.6	±5°F	82 min	1650 lbs
<b>AG-650</b>	36" x 48" x 36"	52" x 74" x 48.5"	650°F	600	1/2	Single	9	±6°F	93 min	1980 lbs
<b>AG-850</b>	36" x 48" x 36"	52" x 74" x 48.5"	850°F	600	1/2	Single	12	±8°F	110 min	2010 lbs

†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.

## STANDARD EQUIPMENT

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

Each features completely wired, top 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 on 500°F models; Incoloy sheathed tubular heating elements on 650°F and 850°F models. Exhaust outlet 4" diameter.

Two (2) reinforced 100 lbs uniformly distributed load capacity, nickel plated wire shelves; 304 stainless steel interior with carbon steel blower and plated hardware. Trilite Green enamel painted aluminized steel exterior.

### AA and AF Series

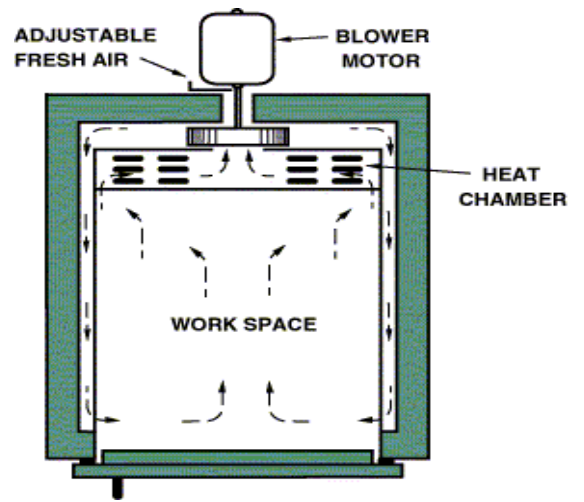
Provides 8 cubic feet and 12 cubic feet of work space respectively. The AF Series is 12" deeper than the AA Series to handle more or longer parts. Temperature ranges to 500°F, 650°F and 850°F. Accommodates seven(7) shelves on 3" centers.

### AB and AG Series

Our larger Universal ovens with work space of 27 cubic feet and 36 cubic feet, respectively. The AG Series is 12" deeper than the AB Series, to accommodate longer parts and bigger batches. Temperature ranges to 500°F, 650°F and 850°F.

Accommodates five(5) shelves on 6" centers.

With virtually any method of work load placement, the front-to-back horizontal air flow pattern completely surrounds work with heated air and permits free air passage throughout the work space for uniform processing.



#### Exhaust Characteristics

Capacity Diameter	HP Height	Outlet Diameter
80 CFM‡	1/84"	16"
130 CFM	1/34"	20"
325 CFM	1/36"	23"

Every oven fully assembled and individually factory tested