

Autoclave Systems

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Mini-Bonders™

At the time of its introduction in 1983, the Mini-Bonder was the first standardized small autoclave available for research and small-scale production. McGill has now incorporated modern design and manufacturing techniques into the new Mini-Bonder 21 and 36 models, offering larger internal workspace and better performance at lower cost.

Key Benefits

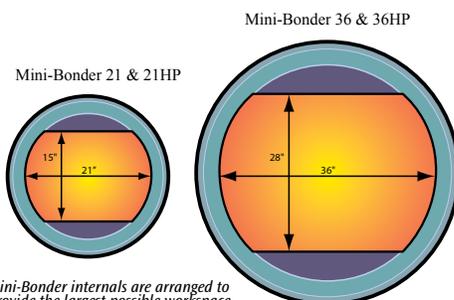
- Lower initial cost and reduced operating and maintenance costs
- Versatility of production and bonding capabilities
- Internals arranged to provide the largest work space possible

Each Mini-Bonder autoclave system is supplied completely assembled, piped, and wired with the same rugged features and sophisticated processing controls as our large-scale autoclaves, offering years of trouble-free operation.

Four standard models are available:

Model	Workspace Dimensions (inches)	Maximum Operating Pressure (psig)	Maximum Operating Temperature (°F)*
Mini-Bonder 21	21 x 15 x 36	150	450
Mini-Bonder 21HP	21 x 15 x 36	270	700
Mini-Bonder 36	36 x 28 x 48	150	450
Mini-Bonder 36HP	36 x 28 x 48	270	700

*Custom pressure and temperature ratings are also available.



Mini-Bonder internals are arranged to provide the largest possible workspace.



Mini-Bonder autoclave systems are shipped completely assembled, piped, and wired. The system's internals include insulation, sheet metal shroud, ductwork, blower, blower drive assembly, electrical heater assembly, and cooling coil.

Features

All Mini-Bonder autoclaves include the following standard features:

- Pneumatically operated quick-opening door
- Vacuum system including vacuum pump
- Internal cooling coil
- Incoloy sheathed heating elements
- PLC-based autoclave control system or PC interface

Applications – not only bonding

Mini-Bonder autoclave systems are not only used for bonding. You can also test materials and processes or do limited-production work at a fraction of the cost using a larger autoclave. Mini-Bonders can easily perform a variety of applications:

- Composite materials bonding
 - graphite-to-epoxy
 - honeycomb structural
 - glass-to-metal
- Glass laminating
- Printed circuit board laminating
- Sterilizing
- Rubber curing and vulcanizing

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