



GLASS LAMINATION AUTOCLAVE SYSTEMS





AUTOCLAVE AND GLASS LAMINATION

Glass laminating autoclaves produced by VERTISA stand out with their high level of technological development, reliability, and durability, and provide the highest performance and maximum efficiency throughout their entire lifetime. The use of glass in increasingly critically manufactured elements has led to an exponential growth in the requirement for control, fatigue, and measurement testing for these units.

AUTOCLAVE AND GLASS LAMINATION

VERTISA has focused its efforts on creating a "smart" autoclave by focusing on improvements in energy efficiency, availability, predictive control, and low maintenance.

VERTISA automation control software includes all these features that reduce the consumption costs of the autoclave, increase its productivity and optimize the periodic maintenance tasks that need to be done.

GLASS LAMINATION CYCLE FEATURES

On a standard cycle, the glass should reach 140°C (280°F) and 12.5 bar (180 psi) of pressure after being placed in the autoclave and remain under these conditions for at least 60 minutes. However, these conditions may vary depending on the thickness and number of panels.

Heating ramp rate: As a starting point and standard value in the glass industry, we recommend a heat ramp rate of 2°C/min, which will allow us to go from 20°C to 140°C in 60 minutes.





VERTISA autoclaves are a worldwide reference in industries such as Glass Lamination, Automotive, Tire Retreading, Food, Pharmaceutical and Textile, Composite, Rubber Curing, and Construction.

VERTISA autoclave windshields and polyvinyl

chloride (PVC) resins or any laminate for buildings and other architectural solutions.

These autoclaves feature the latest technology to provide full control of the process. Glass lamination is achieved by heating the air inside the autoclave using electrical resistances or steam. Hot air is evenly distributed thanks to an electroventilator to achieve maximum temperature homogeneity in all areas. Likewise, a water cell cools the environment at the end of the cycle to lower.



CONTROL SYSTEMS FEATURES

- Optimized Cycle Processing for maximum production and Highest Quality
- Guaranteed Soak
- Glass Temperature
 Monitoring
- Automated Vacuum Leak
 Checking
- Natural Pressure Decay of Temperatures and Pressure
- Interactive Screens
- Multilevel Security
- Control units capabilities
- Recording options
- Vacuum monitoring options



AUXILIARY SYSTEMS

- External Cooling System
- Bridge Mechanism
- Oxygen Sensor/Air Purge/ Safety
- Interlocks
- Vacuum Pumps
- Lift Tables
- Bridges
- Load Carts
- Related Safety Equipment
- Valves
- Piping
- Pumps
- Door Safety Interlocks
- Over-Pressure and Over-Temperature Protection Options
- 'Operator-Inside' Alarms
- Blower Motor Cooling Alarms

TECHNICAL SUPPORT SERVICES

- Inspection
- Installation
- Non-Destructive Field Testing
- Training for New Systems
- Analysis of Equipment
- Design and Engineering
- Evaluation
- Fabrication
- Complete Turnkey Installation
- Freight On Board (FOB) Factory
- Services
- On Site Start-Up/Operation/ Maintenance Training

- User friendly.
- Distinct safety features.
- Custom designs available.
- Full/semi-automatic controls that easily integrate.
- Precision temperature control.
- Even heat distribution.
- Durable laminated glass autoclaves.
- Cost-effective units, but without loss of quality.





CENTRAL OFFICE

- 81 +90 312 476 73 27 +90 542 492 06 81
- Ostim OSB Mah. 1262. Cad. No:4 Yenimahalle, 06374 Ankara / TURKEY

🔀 info@vertisa.eu 🌐 www.vertisa.eu

USA OFFICE

- 852-8277 +1 (407) 852-8277 +1 (407) 255-8377
- **3956 Town Center Blvd #217** Orlando, FL 32837 USA
- info@vertisausa.com ⊕ www.vertisausa.com