

Hot Isostatic Press



Model: QIH-6, Avure Autoclave systems, Inc., USA

Features:

- (a) Temperature : 2000°C (graphite furnace); 1450°C (Molybdenum furnace)
- (b) Isostatic pressure : 200 MPa
- (c) Pressurizing media: Argon, Nitrogen
- (d) Working size : 110mm dia. x 220mm long (Graphite furnace); 120mm dia. x 240mm long (Molybdenum furnace)
- (e) Process control: PLC controller is configured for the all the system inputs to provide complete closed loop control of temperature, pressure, vacuum and other variables
- (f) Temperature control: Manual and automatic temperature control performed by a process controller using PID control algorithm
- (g) Pressure control: Manual and automatic pressure control performed by a process controller using on/off control algorithm
- (h) System programming: System programming is performed on the host computer. Recipes can be stored and retrieved to and from the hard disk

Applications: Densification of parts produced using castings, powder metallurgy, powder injection moulding, plastic injection moulding, fusion welding, densification of advanced ceramics/ composites, bonding of similar and dissimilar materials etc.

Locations: Bioceramics and Coating Division