

EQUIPMENT

COMPOSITE REPAIR CLAVE



Model: HCS3100 Series

Our patented HCS3100 RepairClave units are custom built semi-portable pressure vessels. They are designed to provide controlled temperature, vacuum, and pressure during composite and metal bond repair processes. The positive internal pressure applied to the repair enables operators to achieve the higher pressure when required by aircraft manufacturer repair manuals. Heat is applied only where required using specially constructed silicone rubber heat blankets. This method results in reduced operational costs and fewer problems due to temperature induced part damage.

US Patent - 7,137,799
Canadian Patent: 2,534,014

Typical Applications:

- Helicopter Blades
- Ailerons
- Winglets
- Elevators
- Rudders
- Spoilers
- Slats
- Wedges



Dimensions:

- Standard lengths available: 3ft - 30ft (36in - 360in)
- Inside diameter: 3ft - 4ft (36in - 48in)
- Length and diameter are customizable upon request

Recommended Power Requirements:

- 120-240V 1-Phase to 480V 3-Phase
- Amperage depends on customer configuration
- Other voltages, multiple zones, and phase configurations available

Operating Pressure:

- ASME certified pressure vessel rated at 150 psi maximum at 400°F
- Nominal operating pressure is 100 psi
- Certified Pressure Relief Valve built in, per ASME to ensure vessel safety

Construction:

- Vessel: Constructed from certified rolled plate steel material (SA516-70).
- Vessel stamped with final ASME Hydrostatic Test on permanently affixed data plate
- Closures: Hinged Closure - various mechanical locking devices
- Fixed (Closed) End: Welded domed tank head
- Locking Casters for mobility
- Floor Jacks for stabilization
- Additional Auxiliary Ports for future expansion

Calibration:

- 1 Year Intervals recommended by HEATCON Composite Systems

Re-Certification:

- No annual certification of the pressure vessel required

(Please check local government directives which may supersede this requirement)

Specifications



Optimized Interior Space

Internal Connectors for ease of use



Built-in Vacuum System

Customized Control Panels



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