

ACR® 4 HOT BONDER

Elevate your bonding projects to the next level with the all-new ACR® 4 Hot Bonder. Building on the versatility of the ACR® 3, the ACR® 4 delivers enhanced performance and features for debulking and curing resins, prepregs, adhesives, and fibers with ease.

Designed to control both heat and vacuum, the ACR® 4 is engineered for adaptability, featuring universal voltage compatibility and dual zone operation. Its compact design makes it perfect for on-site composite curing, metal bonding, and out-of-autoclave processing. The advanced HD touchscreen interface simplifies programming, while its dual vacuum systems, including built-in electric pump and venturis, offer unparalleled control. With the ACR® 4, you'll have everything you need for immediate, efficient, and secure composite repairs.



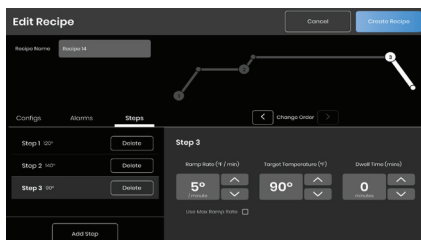
Features & Benefits

- ▶ Dual Zone operation: Ability to run the same cure on multiple zones simultaneously
- ▶ Universal Voltage: Works on 100-130, 200-240 VAC
- ▶ High Amperage: 30 amps output per heat zone
- ▶ Precision Monitoring: Removable thermocouple boxes with 10 durable thermocouple sensors per zone
- ▶ Ability to pause and edit cures including recipe and thermocouple usage
- ▶ Built-in Vacuum Systems: Electric vacuum pump and venturi for each zone
- ▶ Faster and Quieter On-Board Printer: Document your process without external devices
- ▶ Unbeatable Durability: Impact-resistant, better quality latches, wheels, and handles, with a removable lid
- ▶ Improved Mechanical Features: Better power connectors and angled connectors for easier access
- ▶ All-in-One: Includes all essential components for immediate repairs
- ▶ Intuitive & Responsive HD Touch Screen: Streamlined programming and easy-to-follow menu
- ▶ Recipe Customization: No step limit with more recipe storage
- ▶ Ability to review graphs, export cure data, and reprint receipts any time after a cure
- ▶ Advanced Security: Multiple levels of password protection for data integrity

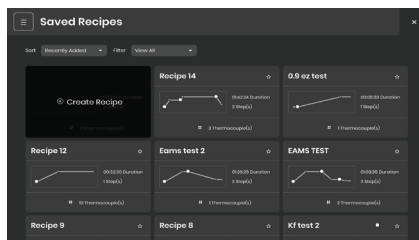


Easy-to-Transport

The future of composite curing starts here. Get the full experience today with the ACR® 4 Hot Bonder by BriskHeat.



Quick multi-step programming



Stores unlimited programs



Real-time graphing of cure

ACR® 4 HOT BONDER

Specifications:

General

Display: 10.1 in (256 mm) full-color touchscreen

Temperature Sensor Range: Up to 1,400°F (760°C)

Temperature Display Units: °F or °C

Sensor Input: Type-J Thermocouples with standard connectors — 10 inputs per zone

Accuracy: ±3°F (1.67°C)

Temperature Measurement Source: Choice of average of all selected thermocouples (TCs), highest TC, or lowest TC

Dimensions (Closed): Hot Bonder: 23 x 18 x 12 in (584 x 457 x 305 mm);

Accessory Case: 20 x 16 x 10 in (508 x 406 x 254 mm)

Weight (Hot Bonder): 46 lbs (21 kg)

Alarms: Audible and visual alarms for temperature, vacuum, and sensor status

Data Storage: Stores unlimited programs and last 60 cures on unit

Data Transfer: Through USB port

Data Logging: Logs digitally or through built-in printer: prints and records real-time status of cure including program parameters. Ability to reprint historical cures

Data Logging Intervals: 1 to 30 minutes

Security: Multiple levels of password protection

Power

Input Voltage: 100-130 VAC, 200-240 VAC

Maximum Amp Load per Zone: 30 amps

Maximum Output Rating: 240 VAC Single Phase

Frequency: 50-60 Hz

MAINS Supply Voltage Fluctuations: up to ±10% of the nominal voltage

Transient Over Voltages: Typically found on a Category II power source: i.e. a lighting circuit

Input Power Cord: 10 ft (3 m) long with choice of plug (1 per zone)

Heater Output Cord: 5 ft (1.5 m) long with receptacle compatible with BriskHeat Composite Curing Heating Blankets with 'C' plug. — Other heater output cords available upon request

Vacuum

Vacuum System: Built-in electric vacuum pump and vacuum venturis for each zone

Pressure: up to 28 inHg (13.75 PSI)

Flow: 3.2 scfm (vacuum venturi); 0.26 scfm (electric vacuum pump)

Vacuum Units: Programmable to inHg, mmHg, kPa, or mbar

Vacuum Adjustment: Ability to manually adjust pressure for each zone

Environment

Location: Intended for use in dry environments. Do not expose to wet spray.

Altitude: Up to 6,562 ft (2,000 m)

Storage Temperature Range: 1 to 140°F (-20 to 60°C)

Operating Temperature Range: 41 to 104°F (5 to 40°C)

Maximum Relative Humidity: 80% for temperatures up to 88°F (31°C) decreasing linearly to 50% relative to humidity at 104°F (40°C)

Pollution Degree: 2 — normally only non-conductive pollution occurs, however a temporary conductivity caused by condensation must be expected



Easy to use, color touch screen



Single Zone ACR® 4 Hot Bonder



Top plate connectors and inputs

ACR® 4 HOT BONDER

Ordering Information

The ACR® 4 Hot Bonder can be purchased either as a kit with composite curing blankets or as a basic kit without composite curing blankets.

Kit with Composite Curing Blankets

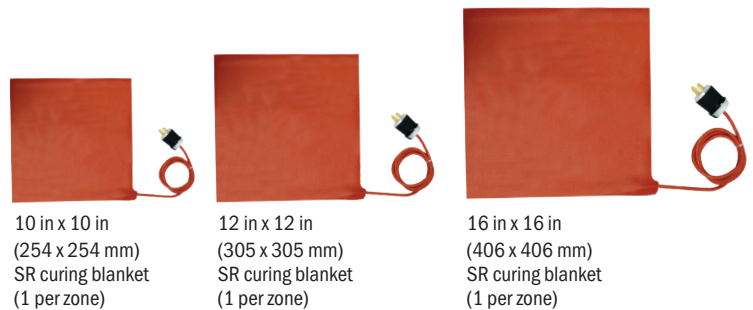
Part Number	Number of Zones	Voltage	NSN*
ACR-4-DB120KIT	2	120 VAC	4920-01-545-5200
ACR-4-DB240KIT	2	240 VAC	4920-01-545-5200

* Please indicate voltage when ordering with NSN.



Kit with Blankets Includes

- ACR® 4 hot bonder unit
- (2) 10 ft (3 m) input power cords
- (2) 5 ft (1.5 m) heater output power cords
- (20) 6 ft (1.8 m) J-Type thermocouples
- (4) 10 ft (3 m) vacuum hoses
- (4) Vacuum bag feed-throughs
- (2) Extra printer paper rolls
- (2) 10 in x 10 in (254 x 254 mm) SR composite curing blankets
- (2) 12 in x 12 in (305 x 305 mm) SR composite curing blankets
- (2) 16 in x 16 in (406 x 406 mm) SR composite curing blankets



10 in x 10 in
(254 x 254 mm)
SR curing blanket
(1 per zone)

12 in x 12 in
(305 x 305 mm)
SR curing blanket
(1 per zone)

16 in x 16 in
(406 x 406 mm)
SR curing blanket
(1 per zone)

Kit without Blankets

Part Number	Number of Zones	Voltage	Input Power Plug NEMA Rating
ACR-4-D120KIT	2	120 VAC	L5-30P
ACR-4-D240KIT	2	240 VAC	L6-30P

Kit without Blankets Includes

- ACR® 4 hot bonder unit
- (2) 10 ft (3 m) input power cords
- (2) 5 ft (1.5 m) heater output power cords
- (20) 6 ft (1.8 m) J-Type thermocouples
- (4) 10 ft (3 m) vacuum hoses
- (4) Vacuum bag feed-throughs
- (2) Extra printer paper

