

## ACR® 3 HOT BONDER

### Features & Benefits

- ▶ Full-color touchscreen interface
- ▶ Dual vacuum system — built-in electric pump and vacuum venturi for each zone
- ▶ Single or dual zone
- ▶ 30 amp output per heat zone
- ▶ 10 thermocouple sensors per zone
- ▶ Audible and visual alarms for high and low temperature/vacuum limits
- ▶ Data logs digitally or through built-in printers
- ▶ Fast and simple data transfer with USB drive
- ▶ Includes everything you need
- ▶ Controls both heat and vacuum — Ideal solution for localized, on-the-spot composite curing, metal bonding, and 'out-of-autoclave/oven' processing applications
- ▶ Intuitive graphical touchscreen interface is easy-to-program and use
- ▶ Compact size allows users to easily transport hot bonder from job-to-job
- ▶ Completely self-contained and portable with built-in vacuum pump
- ▶ Secure — multiple levels of password protection
- ▶ Transfer your programs quickly from one bonder to another
- ▶ Simple post-cure data transfer and analysis — files can be transferred easily with USB drive and opened with spreadsheet and word processor programs including Microsoft® Excel® and Word®
- ▶ Rugged — hot bonder is enclosed in extra durable, high-impact hard case
- ▶ Multi-language support including English, German, Russian, and Chinese (Mandarin). Additional languages available upon request
- ▶ Update your hot bonder easily with the latest FREE software at BriskHeat.com

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YEAR

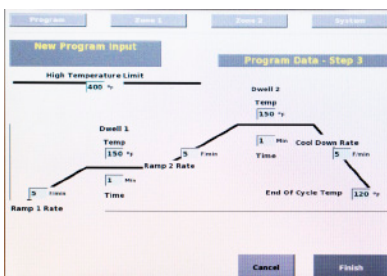
WARRANTY



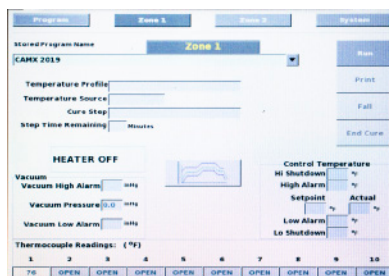
**ACR3**  
HOT BONDER



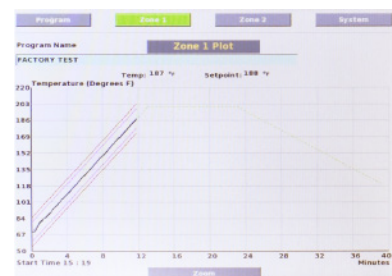
Easy-to-Transport



Quick 3-step programming



Stores up to 30 programs



Real-time graphing of cure

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## ACR® 3 HOT BONDER

### Specifications:

#### General

**Display:** 8.4 in (213 mm) full-color touchscreen

**Temperature Control Range:** Up to 1400°F (760°C)

**Temperature Display Units:** °F or °C

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

**Accuracy:** ±3°F (1.67°C)

**Temperature Measurement Source:** Choice of average of all selected thermocouples (TCs), high TC, low TC, or one selected TC

**Dimensions (Closed):** Hot Bonder: 22 x 18 x 10 in (559 x 457 x 254 mm); Accessory Case: 19 x 15 x 7 in (483 x 381 x 178 mm)

**Weight (Hot Bonder):** Single Zone: 39 lbs (18 kg); Dual Zone: 48 lbs (22 kg)

**Alarms:** Audible and visual alarms for high and low temperature/vacuum limits

**Data Storage:** Stores up to 30 programs and last 12 cures on unit

**Data Transfer:** Through USB port — USB flash drive included

**Data Logging:** Logs digitally or through built-in printer: prints and records real-time status of cure including program parameters

**Data Logging Intervals:** 1 to 99 minutes

**Security:** Multiple levels of password protection

#### Power

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

**Maximum Amp Load per Zone:** 30 amps

**Frequency:** 50-60 Hz

**Ground Fault Protection:** Input ground fault interrupter breaker protected

**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 venturi for each zone

**Pressure:** 28 inHg (711 mmHg)

**Flow:** 5.7 scfm (vacuum venturi); 0.9 scfm (electric vacuum pump)

**Vacuum Units:** Programmable to inHg or mmHg

**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:** -4 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® 3 Hot Bonder



Dual Zone ACR® 3 Hot Bonder



Select models

## ACR® 3 HOT BONDER

### Ordering Information

The ACR® 3 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-3-S120KIT	1	120 VAC	4920-01-538-9296
ACR-3-S240KIT	1	240 VAC	4920-01-538-9296
ACR-3-D120KIT	2	120 VAC	4920-01-545-5200
ACR-3-D240KIT	2	240 VAC	4920-01-545-5200

\* Please indicate voltage when ordering with NSN.

#### Kit with Blankets Includes

- ACR® 3 hot bonder unit
- One 10 in x 10 in (254 x 254 mm) SR composite curing blanket per zone
- One 12 in x 12 in (305 x 305 mm) SR composite curing blanket per zone
- One 16 in x 16 in (406 x 406 mm) SR composite curing blanket per zone
- 10 ft (3 m) vacuum hoses (2 per zone)
- 10 ft (3 m) input power Cord (1 per zone)
- 5 ft (1.5 m) heater output power cord (1 per zone)
- USB flash drive
- J-Type thermocouples (10 per zone)
- Standard connector adapters for thermocouple receptacles (10 per zone)
- Vacuum bag feed-throughs (2 per zone)
- Extra printer ribbon and paper (1 per zone)
- DVD training video

#### Kit without Blankets

Part No.	Number of Zones	Voltage	Input Power Plug NEMA Rating
ACR-3-S1	1	120 VAC	L5-30P
ACR-3-D1	2	120 VAC	L5-30P
ACR-3-S2	1	240 VAC	L6-30P
ACR-3-D2	2	240 VAC	L6-30P

#### Kit without Blankets Includes

- ACR® 3 hot bonder unit
- 10 ft (3 m) vacuum hoses (2 per zone)
- 10 ft (3 m) input power cord (1 per zone)
- 5 ft (1.5 m) heater output power cord (1 per zone)
- USB flash drive
- J-Type thermocouples (10 per zone)
- Standard connector adapters for thermocouple receptacles (10 per zone)
- Vacuum bag feed-throughs (2 per zone)
- Extra printer ribbon and paper (1 per zone)
- DVD training video



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ACR® 3 Hot Bonder-Dual Zone



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)

### CE Approved ACR® 3 Hot Bonders



#### Kit with Composite Curing Blankets

Part No.	Number of Zones	Voltage	Input Power Plug
ACR-3-S240KIT-CE	1	240 VAC	NEMA L6-30P Part No.: 10814
ACR-3-D240KIT-CE	2	240 VAC	NEMA L6-30P Part No.: 10814
ACR-3-S240-3KITCE	1	240 VAC	3P+E+N Part No.: 11773-02
ACR-3-D240-3KITCE	2	240 VAC	3P+E+N Part No.: 11773-02

#### Kit without Blankets

Part No.	Number of Zones	Voltage	Input Power Plug
ACR-3-S2-CE	1	240 VAC	NEMA L6-30P Part No.: 10814
ACR-3-D2-CE	2	240 VAC	NEMA L6-30P Part No.: 10814
ACR-3-S2-3CE	1	240 VAC	3P+E+N Part No.: 11773-02
ACR-3-D2-3CE	2	240 VAC	3P+E+N Part No.: 11773-02



ACR® 3 Hot Bonder  
FREE Demonstration and  
Training Video Included  
and available online