

HB-2 Dual Zone, 10TC Composite Repair System MODELS HB2003 (20Amp) & HB2003A (30Amp)



- ❖ Small but tough Xenoy™ transport case
- ❖ Simple, menu-driven programming
- ❖ 20 'J-type' TC's, 10 per zone
- ❖ -20°C to +60°C operation
- ❖ Auto-switching, universal AC, 90-264VAC, 47-440Hz
- ❖ '003 (20Amps), '003A (30Amps)
- ❖ 2 independent, color-coded heating zones
- ❖ Run & Monitor modes
- ❖ Mid-Cure editing with optional lockout
- ❖ 2 separately adjustable vacuum sources
- ❖ 2 vacuum sensor ports
- ❖ 2 printers
- ❖ 2 pcLink™ serial ports
- ❖ Optional, twin graphic, touchscreen display
- ❖ 3-year Limited Warranty
- ❖ 72-hour service turn around time, average repair cost over 15 years is less than \$250
- ❖ Free firmware updates with annual calibration
- ❖ CE, UL pending

The HB2003 is the latest configuration of the venerable HB-2 dual zone hot bonder series first fielded in 1995. In addition to many new features, this unit also includes all the advantages available on previous HB-2s including the extraordinary Wichitech AC Watchdog safety feature.

The 2003 supports 10 TCs per zone and separates vacuum sourcing from vacuum measurement. The 2003 is compatible with all single phase electrical heaters including blankets, heat lamps, heat guns and cartridge heaters.

New Firmware features include lockouts for program edits and manual mode, improved mid-cure editing including Assign TC mode access, new alarm conditions for TC spread error, maximum temperature and unlinked

temperature/power conditions.

The new unit has also been ruggedized to operate over a larger temperature range and accept a wider range of input power conditions.

There are two display options on the HB2003; the standard, rugged Wichitech hi-visibility LED display or the newer multicolor graphic display. Features of the graphic display include 800 x 480 pixels with an integrated capacitive touch panel interface. The display brightness is adjustable with a maximum output of 1000 nits. The 16-keypad is active with both versions and the operator does not have to use the touchscreen. The HB2003 is compatible with all existing thermocouples, vacuum hoses/fittings and 20 amp power and blanket accessories.

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HB-2 Ten (10) TC Dual Zone Technical Specifications

<u>CHARACTERISTIC</u>	<u>SPECIFICATION</u>
Dimensions	21" x 14" x 8"
Weight / Shipping Weight	38 lbs. / 45 lbs.
Operational Power	85-264 VAC, 47-440 Hz, auto-switching
Circuit Breakers (Current)	2-20Amps (HB2003) or 30A (HB2003A)
GFCI	2 integrated with power input cable
Humidity (Storage/Operating)	20% to 70% (non-cond), 20% to 70%(nc)
Temperature(Storage/Operating)	-40° to +85° C, -25° to +70° C
Display	2 color-coded, sunlight readable
Operator Entry Controls	16-key membrane switch, 2-paper feeds, Zone-Select switch
Heat Zones	2 (either Run or Monitor mode)
Thermocouples	20 'J' type (10 per zone)
Temperature Resolution (UnCal & Calib Accuracy).....	1° F, (+/-5° F, +/-1° F)
Vacuum Gauge	2 mounted on front panel
Vacuum Sensors	1" Hg, 0.5" Hg,
Vacuum Sensor Resolution, Accuracy	Independently adjustable, Dual Head, .90 CFM -or- venturi operation
Vacuum Source	Oil free, internal electric pump,
Heating System	PID, Electrical On/Off cycle control
Heat/Dwell Steps	1-6 Ramp/Soak stages
Heat Up Rate	1° to 15° F/minute in 1° increments
Max Dwell Temperature	500° F (1000° F optional)
Dwell Time	1-999 minutes per soak step
Cool Down	1° to 15° F/minute in ° increments
Final Temperature	70° to 150° F
Minimum Vacuum	0 to 30" Hg
Print Interval	0=OFF, 1 to 30 minutes
Print Options	All sensors, Control TCs, OFF (network)
Auxiliary TC Overlimit	70° to 150° F

*For more information, to place an order, or for a personal demonstration,
please contact:*

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*All major credit cards accepted.
All equipment made in U.S.A.
Refer to GSA for military procurement.*

HB 2003 Features

- ❖ **Smart re-start upon power-loss**
- ❖ **Vacuum source from internal pump and/or optional venturi**
- ❖ **Accessory self-storage in lid**
- ❖ **1 button HOLD control**
- ❖ **Audible & visual (LED) alarm siren**
- ❖ **SI or metric units**
- ❖ **9 integrated alarm conditions including**
 - **Low vacuum**
 - **No heat**
 - **Backward-Wired TCs**
 - **Open TC**
 - **Cold TC (ramp Lo & soak Lo settings)**
 - **Hot TC (ramp Hi & soak Hi settings)**
 - **Max Temp (on all TC's!)**
 - **TC Temperature Spread**
 - **Unlinked TC/Power**
- ❖ **Single or Multiple TC control including**
 - **Median(average)**
 - **TC#1 only**
 - **TC#2 only**
 - **Coldest**
 - **Hottest**
 - **HotPlus™**
- ❖ **2 pLink™ serial ports**
- ❖ **Dual Dot-Matrix Printers**
- ❖ **Standard paper & ribbons**
- ❖ **Time, Date, program listing**
- ❖ **Operator & JOB IDs**
- ❖ **Regular scheduled sensor status**
- ❖ **Target & actual temperatures**
- ❖ **All alarms & clearing events**
- ❖ **All program changes**

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