

# HB-2 Single Zone Explosion Proof Composite Repair System: Model HB2007E



WichiTech Industries, Inc. offers the HB2007E Single Zone Explosion Proof Hot Bonder, P/N F4HB2007E that requires no hoses, either for pressurization of the case or for a venturi to generate vacuum. This Hot Bonder is equal to one half of the F4HB2005E. Tested by an independent laboratory, Dayton T. Brown, the WichiTech Explosion Proof Hot Bonder is in full compliance with NEC for Class 1, Division 1 and MIL-STD-810F hazardous environments operation. WichiTech's HB-2, P/N F4HB2007E is a Single Zone unit with a built-in electric vacuum pump. The HB2007E is capable of operating on 85-265 VAC, 47-440HZ. Using 400Hz 115V generated by the planes engine or APU, the HB2007E becomes a truly portable Hot Bonder capable of

being used anywhere at anytime. This is another "first" in the industry of Hot Bonding created by WichiTech and sets us further apart from our competition.

The HB2007E has the standard features of light weight (34 lbs) in the same footprint as our regular HB2; sunlight readable display (unlike LCD's); built-in storage; indestructible case; a library that will support 32 cures; free software updates for as long as you own the unit; and a three year warranty. Service and calibration remain at 72 hours turnaround on average.

Additions to the HB2007E are the ability to link to a single PC in realtime operation; built-in vacuum adjustment; and an additional vacuum port. The HB2007E can be operated in either automatic or manual mode.

- ❖ One operator programmable, independent heating zone
- ❖ One individual, adjustable vacuum zone
- ❖ Menu driven functions with single keystroke execution
- ❖ 32 library cure program memory
- ❖ Multiple thermocouples, audible alarms, circuit breakers for safety/performance protection.
- ❖ Custom size color-coded printer
- ❖ Sunlight readable LED display
- ❖ Tough, lightweight Xenoy™ transport case, small enough to fit in airplane overhead storage
- ❖ Self-storing unit with space for cables, heating blankets, thermocouples
- ❖ Universal AC power 85-265 VAC, capable of operating on 50, 60 or 400Hz power
- ❖ S.I. or metric units
- ❖ Standard 72-hour service turnaround time
- ❖ Standard 3-year warranty

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INDUSTRIES INC.  
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# HB-2 Single Zone Explosion Proof Technical Specifications

<u>CHARACTERISTIC</u>	<u>SPECIFICATION</u>
Heating Zones	1- Operator Programmable in Bonder and/or Monitor modes
Heating System	Electric Blanket, Heat Lamps, Heat Gun
Heat/Dwell Steps	.1 to 6
Heat Up Rate	.1° to 15° F/minute in 1° increments
Dwell Temperature	.500°F
Dwell Time	.0 to 999 minutes in 1° increments
Cool Down Rate	.1° to 15° F/minute in 1° increments (passive)
Temperature Accuracy	+/- 5 F°
Heat Blankets	.10"x10" and 12"x12", (110V and 220V) standard
Thermocouple	.Type J
Active Thermocouple Inputs	.8 (Control and Backup)
Vacuum Pump (Standard)	.Oil-Free, Electric, 0.90 CFM
External Vacuum	.Shop Air with venturi at 60 to 120 psi
Vacuum Lines	.1 with thru-bag connector
Active Vacuum Transducers	.1 (0" to 30" Hg)
Alarm Conditions	.Low Vacuum, Open Thermocouple, Under Temperature, Over Temperature, Backwards T/C, Failed T/C, Blanket Control Failure (No Heat)
AC Power Supply	.Auto-switching 85 - 265 Volts 47 - 440 Hz, 20 Amp (400 Hz at 115VAC)
AC Safety Devices	.Circuit Breaker - 20 Amp
Size	.21" x 14" x 8"
Weight	.34 lbs.

## HB-2 Single Zone Explosion Proof Features

- ❖ Meets Class 1, Division 1 requirements of NEC and MIL-STD-810F
- ❖ Capable of operating on 50, 60 or 400Hz power
- ❖ Single or multiple T/C control (hottest, coldest, or median/average)
- ❖ Precision (1%) output power control
- ❖ Auto-switching AC universal power
- ❖ Generate vacuum with either internal electric vacuum pump or standard venturi
- ❖ 20A single zone operation
- ❖ Standard 72-hour service turnaround time
- ❖ Standard 3-year warranty

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

**WichiTech Industries, Inc.**  
1120 N. Charles Street • Suite 103  
Baltimore, Maryland 21201  
United States of America

**www.wichitech.com**  
(800) 776-4277  
410/244-1966  
FAX 410/244-1968

NSN  
4920-01-556-7883RN

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