

Characteristic	Specification
Industry Spec. Compliance	BOEING Repair Document D6-48758c (para 7.8.1c) Boeing Process Spec. BAC-5317
Heating Zones	One or two zones, operator selectable
Heating System	Electric silicone flexible heaters or lamps Optional qualification to BOEING D6-56273
Heat Profile Steps	Up to 7 steps (15 segments)
Temperature Ramp Rate	1 to 10° F/Minute (1 to 5 ° C/Minute), F or C selectable.
Dwell Temperature	Ambient to 600 ° F
Dwell Time	1 to 999 Minutes per step
Setpoint Resolution	1° F or C
Instrument Accuracy	±1% of scale (excludes T/C accuracy)
Vacuum Accuracy	± 2 inches Hg
Thermocouples	1 minimum for single zone, 1 minimum per zone for dual zone. 20 maximum for single zone, any combination of 1 to 19 for one zone & the balance in the other zone. A maximum of 20 TCs for both zones .
Thermocouple Inputs	Universal Standard Jack for J or K type, user selectable.
Active Thermocouples	Auto detected by controller.
Vacuum	2 vac. outputs internally generated. Two return inputs, operator configurable, 1 or 2 for one zone, and 1 or 2 for two zone operation. 80/3 to 120/5 Air (PSI/SCFM)
Vacuum Transducers	Strain gauge type 0 to 30 in/hg.
Alarms	Piezo-electric audible alarm on Zone Controller, Text Alarm on PC Controller 80 db min at 2 feet.. Alarm Silence Feature. Hi-intensity LED indicators.
AC Power Input	96 to 250 VAC, 47 to 63 Hz, 25 Amps
AC Power Output	6,000 Watt @ 240 Volts or 3,000 Watts @ 120 Volts
AC Safety Devices	Ground Fault Interrupter (detects Line and Neutral switched)
Power Fault Tolerance	500 mS not noticeable by operator. *
Power Interrupt Recovery	5 minute interrupt recovery *
Size	Approx. 17 X 21X 9
Weight	28 lbs.
Operating Temperature	32 - 120° F
Storage Temperature	0 - 160° F
Humidity (operating)	95% non-condensing

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simplifying
Hot Bonding

Equipment
Materials
Service
Calibration

Data Archival

The 8024-2e eliminates the need for printer paper rolls and ribbons. It also eliminates the expensive repair and replacement of the built in printers. The 8024-2e controller PC stores or prints directly to a standard local or network printer.

Contact us to find out more.

Technology at work for you

CONNECTING YOUR BUSINESS TO THE TECHNOLOGY RESOURCES YOU NEED

The ATACS Model 8024-2e Hot-Bonder is specifically engineered to perform high-temperature cure operations required to bond composite, metal, or fiberglass repair materials. The two-zone architecture is easily configured with a slider control for a single zone with up to 20 TCs, or two independent two flexible size zones running at the same time.

The 8024e is loaded with new features not found on previous ATACS models or competitor's machines.

The proprietary ATACS microprocessor-based system and software automatically perform cure processes to one or two of an unlimited amount of saved cure profiles.

The operator controls the Hotbonder's cure operation through a Microsoft® Windows® based graphical interface. The easy to navigate user interface is designed to be similar to other Microsoft® Windows® programs. This makes the interface intuitive and allows for a rapid learning curve.

During operation, the start-up procedure is easy and takes as little as 10 seconds to be in an active cure. The Hot-Bonder automatically alerts the operator to any conditions jeopardizing cure performance or safety. Leading edge safety features and algorithms are unparalleled in the industry.

flexible solutions for your bonding needs

HOW IT WORKS

During the cure process, the 8024-2e continuously scans ALL active thermocouples. The operator selects the desired control mode (highest, lowest, or selected thermocouple), and the -2e automatically controls to the thermocouple specified by the operator. Total management of the entire curing surface in the graphic display guides the operator in preparing and performing the cure process. Cure status is constantly displayed in graphic and text form for instant operator information. If errors do occur, the 8024-2e will indicate the problem. The cure process and performance is displayed on the computer screen and stored into permanent memory such as a hard drive or flash drive for later printing, graphing, or analysis. The archived file contains a record of The cure name, operator name, time, thermocouple readings, and vacuum status at selectable intervals of one to sixty minutes. Faults and warnings are displayed on the screen to indicate the problem and they are recorded in a permanent log.

THREE GENERATIONS OF LEADING THE INDUSTRY IN HOT-BONDER EQUIPMENT AND APPLICATIONS

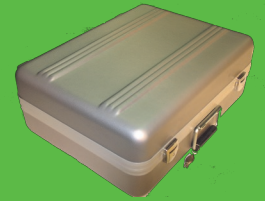
Hot-Bonder Features

- Compact, lightweight, rugged, dual-zone unit
- Fits airline overhead bin
- Off-the-shelf PC or Laptop will be used as the controller.
- Control program is a graphical user interface designed to operate on Microsoft® Windows XP, Vista, and Windows 7 operating systems.
- Operator/job identification (each cure process)
- Operator configurable one or two zone control.
- One-zone operation allows a minimum of 1 T/C up to a maximum of 20 T/Cs.
- Two-zone operation allows a minimum of 1 T/C each zone with the remaining T/Cs allocated to either zone according to the operator's choice.
- Unit allows variable adjustment of tolerances per segment (asymmetric or symmetric)
- Remote alarm capability (future feature)
- Ability to print locally, save cure data to disk or flash drive, or burn to CD.
- Real-time data streaming for customer applications.
- Selectable control to hottest, coolest, or selected T/C
- Independent data logging monitor, displays, and records up to 20 T/Cs per unit.
- All solid-state circuitry
- Electronic S/N
- Client side USB interface
- RS-232 Utility Port (data streaming)
- RS-485 I/O (for maintenance)
- Ethernet I/O – TCP/IP & ModBus (future option) for remote monitoring or control.
- Universal Power Supply - 96 to 250 VAC, 48 to 62 Hz,
- Software filtering for T/C Stability on 3-phase (Non-zero crossing)
- Configuration Properties on each profile include Hi-limit, Low-limit, and Vacuum Threshold .
- GFI can be mounted externally for hazardous environment.
- AC Monitoring will turn SSR On/Off, GFI On/Off, and trip the GFI.
- Two independent vacuum transducers for 1 or 2 zone operation.
- Smart fan for cooling when heating
- Piezoelectric alarm
- Ruggedized AC connectors (4-pin heater connectors, 2 pins open for future applications)
- On-the-fly cure editing. (modification of cure process)
- Temperature high-limit protection
- SAE/metric selectable
- Linear modulation (provides smooth temperature control)
- Authorized personnel access administration



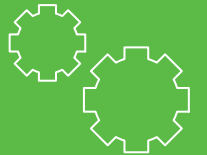
RUGGED CONNECTORS

Military grade, 1/4 turn, quick-disconnect connectors.



DURABLE, LIGHTWEIGHT, SUITCASE STYLE CASE.

The hot-bonder is small and easily transportable.



DATA STORAGE SOLUTIONS

Store the cure data to hard drive or thumb drive. You may also send cure data directly to a serial printer via a data port.



CUSTOM SOLUTIONS

The 8024e system includes a new laptop preloaded and pre-configured. Or, you can provide your own computer equipment for additional cost savings.

Contact us to find out more about all your options.

