

# Battery Back-up Unit (BBU) Retrofit Kit

## For Heatpulse® Systems Equipped with Dual Color Pyrometers

### SemiStar Corp – Your Trusted Partner for AG Associates Heatpulse RTP Systems

Looking for a reliable source for your aging AG Associates Heatpulse 4100, 4108, 8108, 8800, or 8800i Rapid Thermal Processors? SemiStar Corp is the go-to expert for refurbished equipment, genuine OEM spare parts, and professional service.

We maintain extensive inventory of used RTP systems and original parts, and our engineers have over 25 years of hands-on experience servicing AG Associates Heatpulse tools. Still relying on non-specialized vendors? Frustrated by unstable equipment or inconsistent processes caused by second-source parts? Stop chasing problems on your own.

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and let us handle the issues for you—so you can focus on more important work... or simply enjoy your coffee.

The Battery Back-up Unit (BBU) is designed to supply uninterrupted power to the temperature sensing components of the Dual Color Pyrometer (DCP) in the event of an electrical power interruption, providing rapid recovery of the Heatpulse system and swift return to operational status. With the installation of the BBU, the time required for drift recovery and re-calibration of the DCP is eliminated.

The Battery Backup Unit is recommended as an upgrade for any Heatpulse system equipped with a Dual Color Pyrometer to maintain the stability of the thermoelectric cooler. Because pyrometer output is sensitive to variations in the pyrometer's ambient temperature, the thermoelectric cooling circuit must maintain a stable, low temperature around the DCP. When the DCP is de-energized during an extended power interruption, a minimum of 16 to 24 hours is required to stabilize the thermoelectric cooler before reliable process results can be achieved again. To prevent this downtime, the BBU supplies power to the DCP through an external AC adapter until the Heatpulse system is re-energized.

### *Features and Benefits*

- DCP immediately returns to production after power outage.
- Minimum of eight hours sustained battery back-up time; batteries are self-recharging with an average life time of four years.
- Automatic switch between power sources: 12 VAC system power, external 120 VAC adapter, or internal 10V Nickel Cadmium (NiCd) battery.
- LEDs on BBU front panel indicate power status.
- Battery design prevents deep discharge.
- UL® listed for safety.

### *Retrofit Kit Includes:*

- Battery Back-up Unit (BBU)
- AC power adapter
- "T-Cable" harness for connection to pyrometer
- Mounting assembly
- Installation instructions

For all Heatpulse systems with DCP: Order No. 7100-4304-01