

- Intuitive 4.3" color touch screen
- Programmable for 5 separate, 5-step programs
- Visibly track program progress through live status bar
- On-board help screens
- Programmable temperature ramping (4 options)
- Includes NIST traceable certificate for temperature, speed and time

The Talboys Professional Touch Hotplate-Stirrers are designed for applications that require exceptional accuracy, stability and repeatability. Exclusive safety features help protect operator and sample. Enhanced microprocessor control offers an external RTD probe option that delivers superior temperature control of the sample. Includes PT1000 RTD temperature probe kit.

### Operating Features:

**Low Profile Design:** Takes up minimal space and fits easily into fume hoods. Rear housing features an off centered, built-in Spill-resistant design channels fluids away from internal components.

**LCD Touch Screen:** LCD touch screen enables faster setting of temperature and time, which can be viewed at once. Display features on-screen help topics. Touch screen is compatible with rubber gloves used in labs.

**USB:** USB port can transfer data to a flash drive for data logging, program storage and software updates.

**Program Control:** Program control capabilities allow user programmable operation for automated use and memory. Storage for five separate, 5-step programs, or unlimited number of programs with the use of the USB.

**Pulse Mode Feature:** The unit is equipped with a pulse mode feature ideal for quick stirring.

**Microprocessor Control:** Advanced electronics regulate both heating and stirring and bring samples to temperature quickly and efficiently. An internal RTD accurately measures and controls temperature with minimal overshoot. Precise speed control provides consistent stirring at all speeds. Powerful continuous duty motor delivers dependable and reliable stirring.

**Ceramic Top Plate Material:** Ceramic tops feature a chemical resistant, reflective white top plate surface that is easy to clean.

**Built-In Support Rod Holder:** Rear housing features an off-centered, built-in support rod holder with locking knob that accepts the RTD probe kit.

**RTD Probe Kit:** Heating models are supplied with a probe kit which includes an 8" (20.3cm) stainless steel PT1000 RTD temperature probe, 12" (30.5cm) flex arm, interchangeable 3-prong clamp head, 2-prong clamp head and spring clamp head.

**Temperature Calibration Mode:** Allows user to calibrate to an external temperature device for up to 6 separate points.

### Safety Features:

**Cool Touch Housing:** Housing is made of a heat resistant polymer that is not only cool to the touch, but is also chemical resistant.

**Spill Resistant Design:** Channels fluids away from internal components.

**Caution Hot Indicator:** For additional safety, hot symbol warning light is illuminated when heat is turned on and remains on until top plate cools down (for heating models).

**Stir Protection:** If stirrer motor stops or fails, unit will automatically shut down heater (for hotplate-stirrers).

**Programmable Temperature Ramping Feature:** Allows user greater control over their assay when changing temperatures within a program.

**Speed Ramping Feature:** Slowly increases motor speed for improved safety and enhanced coupling. Avoids splashing, improves spin bar control, and provides excellent low end speed control (for stirrers or hotplate-stirrers).



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**Maximum Temperature Limiting (Plate Over Temperature Limit):** Ensures plate temperature will never exceed users programmed set temperature limit, allowing for control of samples with sensitive flash points (heating models).

**Audible Alarm:** In timed mode, alarm will sound when time reaches zero or when unit reaches set-point temperature (for hotplates or hotplate-stirrers).

**Probe Protection:** If probe disengages from sample, unit will automatically shut off heater (heating models).

### Operating Conditions:

Unit can be run in conditions from 5 to 40°C (41 to 104°F), maximum 20% to 80% relative humidity, non-condensing.

### Ordering Information:

Units include a 92" (234cm) detachable, 3-wire cord and plug (230V units are supplied with Euro type plug). Stirrers and hotplate-stirrers are supplied with a 1.5" (3.8cm) PTFE coated stir bar. Hotplates and hotplate-stirrers are supplied with a probe kit which includes an 8" (20.3cm) stainless steel PT1000 RTD temperature probe, 12" (30.5cm) flex arm, and interchangeable 3-prong clamp head, 2-prong clamp head and spring clamp head. **5 year limited warranty on parts and labor.**

**NIST Traceable Calibration Certificate** provided by Troemner's ISO/IEC 17025 accredited laboratory. Multiple data points within the temperature and speed ranges, and time function, are reported on the certificate with the associated uncertainties. **Replacement probes** are available, see accessories on page 74.