

- Excellent temperature uniformity
- Cool touch, chemical resistant housing
- Includes RTD temperature probe kit

Talboys Professional Round Top 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. Stirring function, with continuous duty motor and powerful magnet, maintains set speed even under changing load or viscosity. Separate LED displays for temperature, speed, and time allow user to view all settings at once.

Operating Features:

Low Profile Design: Takes up minimal space and fits easily into fume hoods. Spill-resistant design channels fluids away from internal components.

Microprocessor Control: Advanced electronics regulate both heating and stirring and bring samples to temperature quickly and efficiently. Temperature measurement is controlled more accurately by utilizing an internal RTD. Speed is precisely controlled, and provides consistent stirring at all speeds. Powerful continuous duty motor delivers dependable and reliable stirring.

Control Panel: Touch pad controls with easy-to-read, independent LED displays for temperature, speed, and time allow operator to view all settings at once. Provides repeatable and accurate results every time and is easily visible from outside fume hoods or across lab benches. Shows set-point and actual temperature. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero. Display will show last used settings, even after power has been turned off.

Stainless Steel Top Plate: 5.3" (135mm) diameter top plate is durable and will not crack. Accepts optional Talboys base plate that holds a variety of block options for holding multiple samples at one time.

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

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.

Hot Top Indicator: For additional safety, hot symbol warning light is illuminated when heat is turned on and remains on until top plate cools down.

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

Speed Ramping Feature: Slowly increases speed for improved safety and enhanced coupling. Avoids splashing, improves spin bar control and provides excellent low end speed control.

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.

Audible Alarm: In timed mode, alarm will sound when time reaches zero or when unit reaches set-point temperature.

Probe Protection: If probe disengages from sample, unit will automatically shut off heater.



984TARSHSUSP

Operating Conditions:

Unit can be run in conditions from 5 to 40°C (41 to 104°F), 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). Units are also supplied with a 1.5" (3.8cm) PTFE coated stir bar and RTD probe kit which includes a PT1000, 8" (20.3cm) stainless steel 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.**

Optional 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.

Specifications

Temperature Range	Ambient +5°C to 400°C
Temperature Stability*	± 1%
Speed Range	60 to 1600rpm
Speed Stability	± 2%
Maximum Capacity	1500mL
Top Plate Dimensions (Dia.)	5.3" (135mm)
Overall Dimensions (L x W x H)	14.8 x 9.9 x 4.3" (37.6 x 25.1 x 10.9cm)
Ship Weight	11.7lbs (5.3kg)

* Below 100°C ± 1°C. Environmental and sample conditions permitting.

Distributed by:

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Description	Electrical (50/60 Hz)	Emporium item #	Part Number
Professional Round Top Hotplate-Stirrer	120V 8.3 amps 500 watts	23214-120	984TARSHSUSP
Professional Round Top Hotplate-Stirrer	230V 4.6 amps 500 watts	23214-230	984TARSHSEUP
Professional Round Top Hotplate-Stirrer with NIST Traceable Certificate	120V 8.3 amps 500 watts	23214-120N	984TARSHSUSC
Professional Round Top Hotplate-Stirrer with NIST Traceable Certificate	230V 4.6 amps 500 watts	23214-230N	984TARSHSEUC