

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

Talboys Professional Hotplates, Stirrers, and 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. An internal RTD accurately measures and controls temperature. Precise speed control 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 temperatures. 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.

Ceramic or Aluminum Top Plate Materials: Ceramic tops feature a chemical resistant, reflective white top plate surface that is easy to clean. Durable aluminum tops will not crack or chip, and provide a more even temperature distribution.

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

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.

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 (for hotplates or hotplate-stirrers).

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

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).

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 (for hotplates or hotplate-stirrers).

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 (for hotplates or hotplate-stirrers).



984TA7CHSUSP

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). 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.**

Specifications

Top Plate Dimensions	
7 x 7" Units	7 x 7" (17.8 x 17.8cm)
10 x 10" Units	10 x 10" (25.4 x 25.4cm)
Temperature Range	
Ceramic Top Plate Units	Ambient +5°C to 500°C
Aluminum Top Plate Units	Ambient +5°C to 400°C
Temperature Stability*	± 1%
Speed Range	60 to 1600rpm
Speed Stability	± 2%
Timer	1 second to 160 hours
Maximum Capacity (H ₂ O)	
7 x 7" Units	2500mL
10 x 10" Units	6000mL
Overall Dimensions (L x W x H)	
7 x 7" Units	14.8 x 9.9 x 4.3" (37.6 x 25 x 10.9cm)
10 x 10" Units	17.9 x 13 x 4.3" (45.5 x 33 x 10.9cm)
Ship Weight	
7 x 7" Units	12lbs (5.4kg)
10 x 10" Units	17.4lbs (7.9kg)

* Plate Control: Below 100°C ± 2°C. Environmental and sample conditions permitting.

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

Professional Hotplates, Stirrers & Hotplate-Stirrers

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. **Replacement probes** are available, see accessories on page 74.

Professional Hotplates			
Description	Top Plate Material	Electrical (50/60 Hz)	Part Number
7 x 7" (17.8 x 17.8cm) Hotplate	Ceramic	120V 7.9 amps 950 watts	984TA7CHPUSP
7 x 7" (17.8 x 17.8cm) Hotplate	Ceramic	230V 4.4 amps 1000 watts	984TA7CHPEUP
7 x 7" (17.8 x 17.8cm) Hotplate	Aluminum	120V 7.9 amps 950 watts	984TA7AHPUSP
7 x 7" (17.8 x 17.8cm) Hotplate	Aluminum	230V 4.4 amps 1000 watts	984TA7AHEUP
7 x 7" (17.8 x 17.8cm) Hotplate with NIST Traceable Certificate	Ceramic	120V 7.9 amps 950 watts	984TA7CHPUSC
7 x 7" (17.8 x 17.8cm) Hotplate with NIST Traceable Certificate	Ceramic	230V 4.4 amps 1000 watts	984TA7CHPEUC
7 x 7" (17.8 x 17.8cm) Hotplate with NIST Traceable Certificate	Aluminum	120V 7.9 amps 950 watts	984TA7AHPUSC
7 x 7" (17.8 x 17.8cm) Hotplate with NIST Traceable Certificate	Aluminum	230V 4.4 amps 1000 watts	984TA7AHEUC
10 x 10" (25.4 x 25.4cm) Hotplate	Ceramic	120V 12.5 amps 1500 watts	984TA0CHPUSP
10 x 10" (25.4 x 25.4cm) Hotplate	Ceramic	230V 6.7 amps 1550 watts	984TA0CHPEUP
10 x 10" (25.4 x 25.4cm) Hotplate	Aluminum	120V 12.5 amps 1500 watts	984TA0AHPUSP
10 x 10" (25.4 x 25.4cm) Hotplate	Aluminum	230V 6.7 amps 1550 watts	984TA0AHEUP
10 x 10" (25.4 x 25.4cm) Hotplate with NIST Traceable Certificate	Ceramic	120V 12.5 amps 1500 watts	984TA0CHPUSC
10 x 10" (25.4 x 25.4cm) Hotplate with NIST Traceable Certificate	Ceramic	230V 6.7 amps 1550 watts	984TA0CHPEUC
10 x 10" (25.4 x 25.4cm) Hotplate with NIST Traceable Certificate	Aluminum	120V 12.5 amps 1500 watts	984TA0AHPUSC
10 x 10" (25.4 x 25.4cm) Hotplate with NIST Traceable Certificate	Aluminum	230V 6.7 amps 1550 watts	984TA0AHEUC

Professional Stirrers			
Description	Top Plate Material	Electrical (50/60 Hz)	Part Number
7 x 7" (17.8 x 17.8cm) Stirrer	Ceramic	120V 0.4 amps 50 watts	984TA7CSTUSP
7 x 7" (17.8 x 17.8cm) Stirrer	Ceramic	230V 0.2 amps 50 watts	984TA7CSTEUP
7 x 7" (17.8 x 17.8cm) Stirrer	Aluminum	120V 0.4 amps 50 watts	984TA7ASTUSP
7 x 7" (17.8 x 17.8cm) Stirrer	Aluminum	230V 0.2 amps 50 watts	984TA7ASTEUP
7 x 7" (17.8 x 17.8cm) Stirrer with NIST Traceable Certificate	Ceramic	120V 0.4 amps 50 watts	984TA7CSTUSC
7 x 7" (17.8 x 17.8cm) Stirrer with NIST Traceable Certificate	Ceramic	230V 0.2 amps 50 watts	984TA7CSTEUC
7 x 7" (17.8 x 17.8cm) Stirrer with NIST Traceable Certificate	Aluminum	120V 0.4 amps 50 watts	984TA7ASTUSC
7 x 7" (17.8 x 17.8cm) Stirrer with NIST Traceable Certificate	Aluminum	230V 0.2 amps 50 watts	984TA7ASTEUC
10 x 10" (25.4 x 25.4cm) Stirrer	Ceramic	120V 0.4 amps 50 watts	984TA0CSTUSP
10 x 10" (25.4 x 25.4cm) Stirrer	Ceramic	230V 0.2 amps 50 watts	984TA0CSTEUP
10 x 10" (25.4 x 25.4cm) Stirrer	Aluminum	120V 0.4 amps 50 watts	984TA0ASTUSP
10 x 10" (25.4 x 25.4cm) Stirrer	Aluminum	230V 0.2 amps 50 watts	984TA0ASTEUP
10 x 10" (25.4 x 25.4cm) Stirrer with NIST Traceable Certificate	Ceramic	120V 0.4 amps 50 watts	984TA0CSTUSC
10 x 10" (25.4 x 25.4cm) Stirrer with NIST Traceable Certificate	Ceramic	230V 0.2 amps 50 watts	984TA0CSTEUC
10 x 10" (25.4 x 25.4cm) Stirrer with NIST Traceable Certificate	Aluminum	120V 0.4 amps 50 watts	984TA0ASTUSC
10 x 10" (25.4 x 25.4cm) Stirrer with NIST Traceable Certificate	Aluminum	230V 0.2 amps 50 watts	984TA0ASTEUC

Professional Hotplate-Stirrers			
Description	Top Plate Material	Electrical (50/60 Hz)	Part Number
7 x 7" (17.8 x 17.8cm) Hotplate-Stirrer	Ceramic	120V 8.3 amps 1000 watts	984TA7CHSUSP
7 x 7" (17.8 x 17.8cm) Hotplate-Stirrer	Ceramic	230V 4.6 amps 1050 watts	984TA7CHSEUP
7 x 7" (17.8 x 17.8cm) Hotplate-Stirrer	Aluminum	120V 8.3 amps 1000 watts	984TA7AHSUSP
7 x 7" (17.8 x 17.8cm) Hotplate-Stirrer	Aluminum	230V 4.6 amps 1050 watts	984TA7AHSEUP
7 x 7" (17.8 x 17.8cm) Hotplate-Stirrer with NIST Traceable Certificate	Ceramic	120V 8.3 amps 1000 watts	984TA7CHSUSC
7 x 7" (17.8 x 17.8cm) Hotplate-Stirrer with NIST Traceable Certificate	Ceramic	230V 4.6 amps 1050 watts	984TA7CHSEUC
7 x 7" (17.8 x 17.8cm) Hotplate-Stirrer with NIST Traceable Certificate	Aluminum	120V 8.3 amps 1000 watts	984TA7AHSUSC
7 x 7" (17.8 x 17.8cm) Hotplate-Stirrer with NIST Traceable Certificate	Aluminum	230V 4.6 amps 1050 watts	984TA7AHSEUC
10 x 10" (25.4 x 25.4cm) Hotplate-Stirrer	Ceramic	120V 12.9 amps 1550 watts	984TA0CHSUSP
10 x 10" (25.4 x 25.4cm) Hotplate-Stirrer	Ceramic	230V 7.0 amps 1600 watts	984TA0CHSEUP
10 x 10" (25.4 x 25.4cm) Hotplate-Stirrer	Aluminum	120V 12.9 amps 1550 watts	984TA0AHSUSP
10 x 10" (25.4 x 25.4cm) Hotplate-Stirrer	Aluminum	230V 7.0 amps 1600 watts	984TA0AHSEUP
10 x 10" (25.4 x 25.4cm) Hotplate-Stirrer with NIST Traceable Certificate	Ceramic	120V 12.9 amps 1550 watts	984TA0CHSUSC
10 x 10" (25.4 x 25.4cm) Hotplate-Stirrer with NIST Traceable Certificate	Ceramic	230V 7.0 amps 1600 watts	984TA0CHSEUC
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