

talboys™



Thermal Shake Touch
heat. cool. mix. repeat.

Thermal Shake Touch

- Intuitive 4.3" color LCD touch screen
- Ability for rapid heating and high speed shaking
- Internal memory stores five separate 5-step programs
- Supplied with 1.5mL block



The Talboys Thermal Shake Touch is designed for applications that require consistent and precise results. With heating and shaking capabilities, the Thermal Shake Touch uses interchangeable blocks to accommodate a wide variety of tubes and microplates. The easy-to-use 4.3" color LCD touch screen allows the user to save and visibly track progress through the live status bar for five user defined programs, each with five individual steps. The unit's enhanced electronics and temperature sensor provide accurate, dependable temperature settings across the operating range.

Operating Features:

Low profile design: The low profile design minimizes the unit's footprint on the bench.

LCD touch screen: Enables faster setting of temperature, speed and time, which can all be viewed at once. Display features on-screen help topics with operational tips. Touch screen is compatible with rubber gloves used in labs. USB port can transfer information 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 for five separate, 5-step programs.

Temperature ramp rate: Adjustable temperature ramp rate feature separately defines the heating rate in increments of 0.5°C/min.

Single point calibration mode: For maximum temperature accuracy, the single point calibration procedure allows the user to calibrate up to 6 different user defined temperatures.

Pulse mode feature: The unit is equipped with a pulse mode feature ideal for quick vortex applications.

Safety Features:

Cool touch housing: Constructed from a high-quality heat and chemical resistant polymer. The unit's housing remains cool to the touch throughout normal operating temperatures.

Maximum temperature limiting function: Ensures the temperature will not exceed user defined limits allowing control of temperature sensitive samples.

Hot top indicator: A hot top warning light will illuminate when the temperature reaches 40°C and will remain lit until the unit is cooled below 40°C.

Audible alarm: In timed mode, an alarm will sound when the timer reaches zero or set-point temperature is reached. Additionally, the heat function will automatically shut off if the unit recognizes an internal issue.

Ordering Information

Unit includes a 92" (234cm) detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug). Unit is also supplied with a 1.5mL block, a rack and a cover. 2 year limited warranty on parts and labor. Eppendorf® Thermomixer R® accessory blocks are compatible on the Talboys Thermal Shake Touch.

Optional NIST traceable certificate: includes a 3 point NIST traceable calibration. The traceable certificate includes actual calibration measurement data and uncertainty. The calibration laboratory is ISO/IEC 17025 compliant.



Specifications	
Temperature Range	4°C above ambient to 100°C
Temperature Accuracy	± 1°C between 20°C and 45°C ± 2°C above 45°C
Speed Range	300 to 3000rpm
Speed Accuracy	± 2%
Timer	1 minute to 99 hours, 59 minutes
Orbit	3mm (0.12")
Heating Rate	5°C/minute
Overall Dimensions (L x W x H)	10.25 x 9.75 x 5.2" (26 x 24.8 x 13.2cm)
Ship Weight	17lbs (7.7kg)

Operating Conditions:

Unit can operate in conditions from 5 to 35°C (41 to 95°F), maximum 80% relative humidity, non-condensing.

Applications:

Cell cultures, DNA, RNA, and protein studies.

Thermal Shake Touch with 1.5mL Block

Description	Electrical (50/60 Hz)	Part Number
Thermal Shake Touch	120V 1.8 amps 215 watts	980TAHTSTSUS
Thermal Shake Touch	230V 0.9 amps 210 watts	980TAHTSTSEU
Thermal Shake Touch with NIST Traceable Certificate	120V 1.8 amps 215 watts	980TAHTSTSUC
Thermal Shake Touch with NIST Traceable Certificate	230V 0.9 amps 210 watts	980TAHTSTSEC

Cooling Thermal Shake Touch



- Intuitive 4.3" color LCD touch screen
- Ability for rapid heating, cooling and high speed shaking
- Internal memory stores five separate 5-step programs
- Supplied with 1.5mL block



The Talboys Cooling Thermal Shake Touch is designed for applications that require consistent and precise results. With heating, cooling and shaking capabilities, the Cooling Thermal Shake Touch uses interchangeable blocks to accommodate a wide variety of tubes and microplates. The easy-to-use 4.3" color LCD touch screen allows the user to save and visibly track progress through the live status bar for five user defined programs, each with five individual steps. The unit's enhanced electronics and dual temperature sensors provide accurate, dependable temperature settings across the operating range.

Operating Features:

Low profile design: The low profile design minimizes the unit's footprint on the bench.

LCD touch screen: Enables faster setting of temperature, speed and time, which can all be viewed at once. Display features on-screen help topics with operational tips. Touch screen is compatible with rubber gloves used in labs. USB port can transfer information 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 for five separate, 5-step programs.

Temperature ramp rate: Adjustable temperature ramp rate feature separately defines the heating and cooling rates in increments of 0.5°C/min.

Single point calibration mode: For maximum temperature accuracy, the single point calibration procedure allows the user to calibrate up to 6 different defined temperatures.

Pulse mode feature: The unit is equipped with a pulse mode feature ideal for quick vortex applications.

Safety Features:

Cool touch housing: Constructed from a high-quality heat and chemical resistant polymer. The unit's housing remains cool to the touch throughout normal operating temperatures.

Maximum temperature limiting function: Ensures the temperature will not exceed user defined limits allowing control of temperature sensitive samples.

Hot top indicator: A hot top warning light will illuminate when the temperature reaches 40°C and will remain lit until the unit is cooled below 40°C.

Audible alarm: In timed mode, an alarm will sound when the timer reaches zero or set-point temperature is reached. Additionally, the heat function will automatically shut off if the unit recognizes an internal issue.

Ordering Information

Unit includes a 92" (234cm) detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug). Unit is also supplied with a 1.5mL block, a rack and a cover. 2 year limited warranty on parts and labor. Eppendorf® Thermomixer R® accessory blocks are compatible on the Talboys Cooling Thermal Shake Touch.

Optional NIST traceable certificate: Includes a 3 point NIST traceable calibration. The traceable certificate includes actual calibration measurement data and uncertainty. The calibration laboratory is ISO/IEC 17025 compliant.

Specifications	
Temperature Range	17°C below ambient to 100°C
Temperature Accuracy	± 0.5°C between 20°C and 45°C ± 2°C below 20°C and above 45°C
Speed Range	300 to 3000rpm
Speed Accuracy	± 2%
Timer	1 minute to 99 hours, 59 minutes
Orbit	3mm (0.12")
Heating Rate	5°C/min
Cooling Rate	above ambient: 2-3°C/min below ambient: 0.5-1.0°C/min
Overall Dimensions (L x W x H)	10.25 x 9.75 x 5.2" (26 x 24.8 x 13.2cm)
Ship Weight	17lbs (7.7kg)

Operating Conditions:

Unit can operate in conditions from 5 to 35°C (41 to 95°F), maximum 80% relative humidity, non-condensing.

Applications:

Cell cultures, DNA, RNA, hybridization, and protein studies.

Cooling Thermal Shake Touch		
Description	Electrical (50/60 Hz)	Part Number
Cooling Thermal Shake Touch	120V 1.8 amps 215 watts	980TAHSCTSUS
Cooling Thermal Shake Touch	230V 0.9 amps 210 watts	980TAHSCTSEU
Cooling Thermal Shake Touch with NIST Traceable Certificate	120V 1.8 amps 215 watts	980TAHSCTSUC
Cooling Thermal Shake Touch with NIST Traceable Certificate	230V 0.9 amps 210 watts	980TAHSCTSEC

Thermal Shake Touch Modular Blocks



Tube Blocks

Sample Type	No. of Wells	Dimensions	Part Number
0.5mL Tubes*	30	5 x 4 x 2" (12.7 x 10.2 x 5.1cm)	980TAMTB05
1.5mL Tubes*	24	5 x 4 x 2" (12.7 x 10.2 x 5.1cm)	980TAMTB15
2.0mL Tubes*	24	5 x 4 x 2" (12.7 x 10.2 x 5.1cm)	980TAMTB20
5-7mL Tubes	24	5 x 4 x 2" (12.7 x 10.2 x 5.1cm)	980TAMTB57

* Supplied with rack and cover

Cryo Tube Block

Sample Type	No. of Wells	Dimensions	Part Number
2.0mL Cryo Tubes	24	5 x 4 x 2" (12.7 x 10.2 x 5.1cm)	980TACTB20

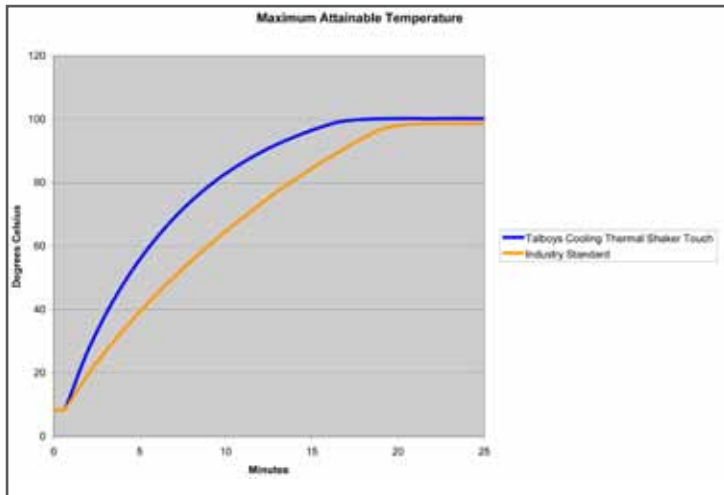
Conical Tube Blocks

Sample Type	No. of Wells	Dimensions	Part Number
15mL Conical Tubes	8	5 x 4 x 5" (12.7 x 10.2 x 12.7cm)	980TACTB15
50mL Conical Tubes	4	5 x 4 x 5" (12.7 x 10.2 x 12.7m)	980TACTB50

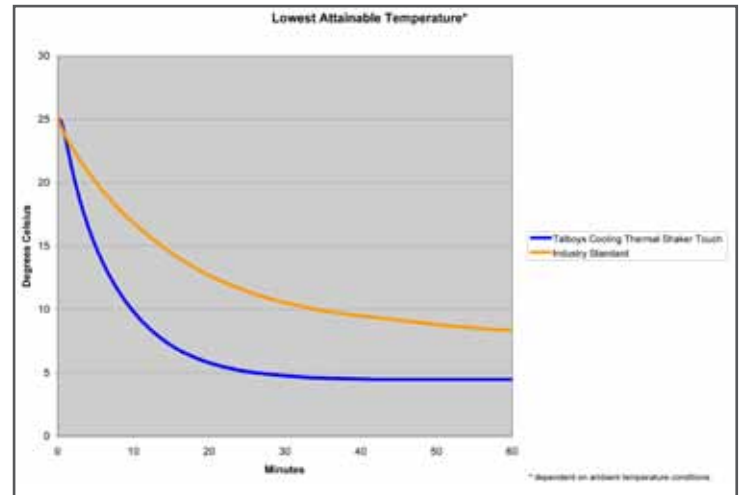
Talboys Introduces the New Industry Standard

The all new Talboys Thermal Shake Touch line offers industry leading performance, features, and experiment traceability that is unmatched in the marketplace.

The Temperature Ranges Will Take Your Experiments Further



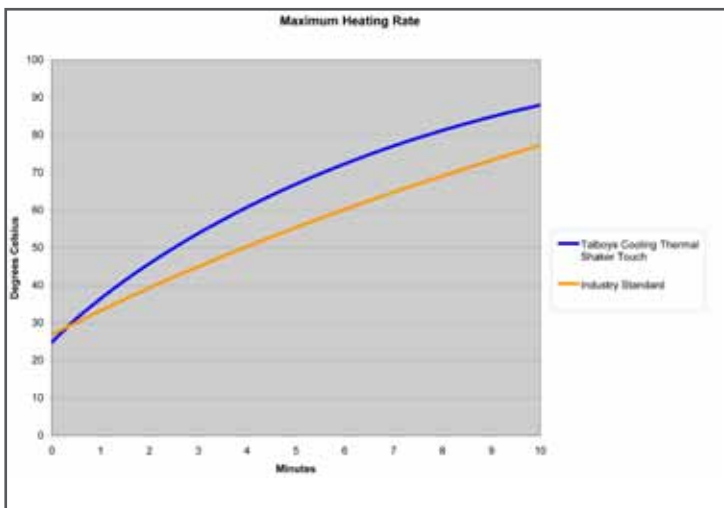
The maximum attainable temperature is 1.5°C higher than the industry standard.



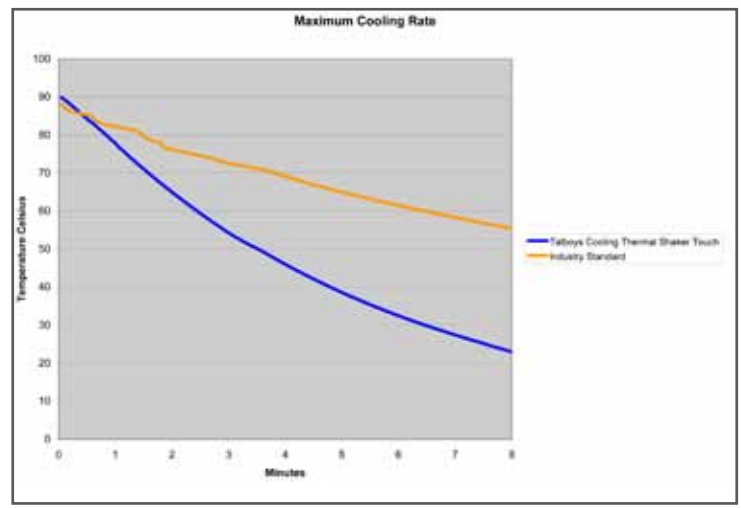
The lowest attainable temperature is 4°C lower than the industry standard.

The Ramp Rates Will Get You There Faster

The Talboys Cooling Thermal Shake Touch will get you to your set-point faster; but, if your experiment requires a little more care, you can adjust these heating and cooling rates according to your needs.



Cooling rates as much as 4°C/minute faster than the industry standard.



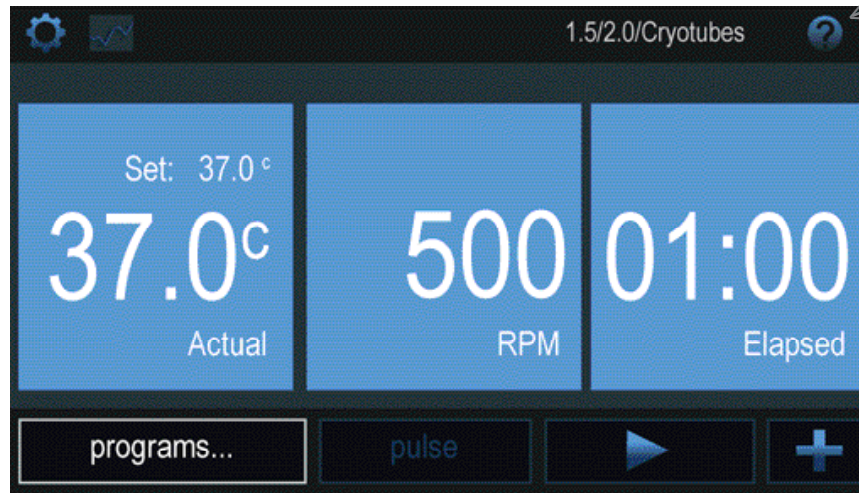
Heating rates as much as 1.2°C/minute faster than the industry standard.

Touch Screen Technology

- Resistive touch technology always works – even with gloves
- Touch panel is sealed for easy cleaning
- Simple USB data logging for process verification
- Manual calibration is easy and intuitive

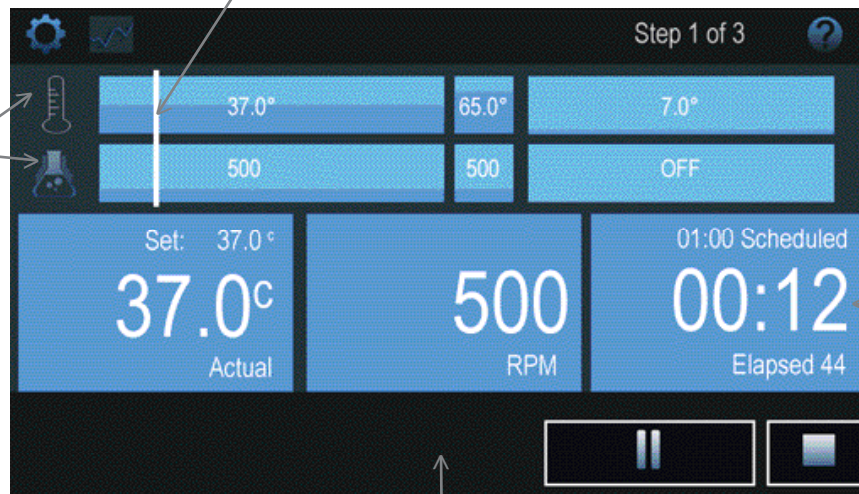
Help available on every screen in 6 languages: English, Spanish, French, Portuguese, German, and Italian

Clear 4.3" LCD screen is easy to view from a distance



Program tracking provides clear visual progress

Temperature and speed settings are easy and intuitive



Active settings are always visible

Intuitive interface makes for easy operation and programming

When Traceability Matters – Talboys is your ONLY choice

- The Talboys Thermal Shake Touch line is the only thermal shaker line available in the marketplace with a NIST (National Institute of Standard and Technology) Traceable Certificate.
- When you order a unit with a NIST Traceable Certificate, your unit is traceable back to a national standard in accordance with ISO VIM (the international standard).
- Traceability means confidence in your results and confidence in your processes – regardless of your lab location.