Isotemp™ Shake Touch

Fisher Scientific

Isotemp™ Cooling 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

Specifications and Ordering Information	
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:	3 mm (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):	10.6 x 10.3 x 5.4" (26.9 x 26.2 x 13.7cm)
Ship Weight:	11.5lbs (5.2kg)

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™ blocks are compatible on the Fisher Scientific™ Isotemp™ Cooling 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.

Isotemp™ Cooling Shake Touch

The Fisher Scientific™ Isotemp™ Cooling Shake Touch is designed for applications that require consistent and precise results. With heating, cooling and shaking capabilities, the Fisher Scientific™ Isotemp™ Cooling 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.

PID temperature controller: Maintains precise temperature control from 17°C below ambient to 100°C. Easy-to-use controls allow user to adjust temperature in 0.1° increments.

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. Unlimited if using the USB.

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 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 if 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.

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.

Description	Electrical	Cat. No.
Isotemp Cooling Shake Touch	120V | 1.8 amps | 215 watts	**02-217-737**
Isotemp Cooling Shake Touch	230V | 0.9 amps | 210 watts	**02-217-738**
Isotemp Cooling Shake Touch with NIST Traceable Certificate	120V | 1.8 amps | 215 watts	**02-217-739**
Isotemp Cooling Shake Touch with NIST Traceable Certificate	230V | 0.9 amps | 210 watts	**02-217-740**

>> 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

Specifications and Ordering Information	
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:	3 mm (0.12")
Heating Rate:	5 °C/min
Overall Dimensions (L x W x H):	10.6 x 10.3 x 5.4" (26.9 x 26.2 x 13.7cm)
Ship Weight:	11.5lbs (5.2kg)

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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™ blocks are compatible on the Fisher Scientific™ Isotemp™ 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.

Isotemp™ Shake Touch

The Fisher Scientific™ Isotemp™ Shake Touch is designed for applications that require consistent and precise results. With heating and shaking capabilities, the Fisher Scientific™ Isotemp™ 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.

PID temperature controller: Maintains precise temperature control from 4°C above ambient to 100°C. Easy-to-use controls allow user to adjust temperature in 0.1° increments.

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. Unlimited if using the USB.

Temperature ramp rate: Adjustable temperature ramp rate feature separately defines the heating 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 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 if 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.

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.

Description	Electrical	Cat. No.
Isotemp Shake Touch	120V | 1.8 amps | 215 watts	**02-217-741**
Isotemp Shake Touch	230V | 0.9 amps | 210 watts	**02-217-742**
Isotemp Shake Touch with NIST Traceable Certificate	120V | 1.8 amps | 215 watts	**02-217-743**
Isotemp Shake Touch with NIST Traceable Certificate	230V | 0.9 amps | 210 watts	**02-217-744**

Accessories

Microplate Block

Sample Type	No. of Wells	Well Diameter	Well Depth	Dimensions	Cat. No.
Microplate Thermal Block with Lid	1	5.06 x 3.38" (12.9 x 8.6cm)	1.00" (2.5cm)	6.5 x 4.75 x 4" (15.2 x 10.2 x 5.1cm)	02-217-745

Tube Blocks

Sample Type	No. of Wells	Well Diameter	Well Depth	Dimensions	Cat. No.
0.5mL Tubes*	30	0.312" (0.79cm)	1.01" (2.57cm)	5.7 x 4.1 x 1.8" (14.5 x 10.4 x 4.6cm)	02-217-746
1.5mL Tubes*	24	0.438" (1.11cm)	1.32" (3.35cm)	5.7 x 4.1 x 2.1" (14.5 x 10.4 x 5.3cm)	02-217-747
2.0mL Tubes*	24	0.454" (1.15cm)	1.32" (3.35cm)	5.7 x 4.1 x 2.1" (14.5 x 10.4 x 5.3cm)	02-217-748
5-7mL Tubes	24	0.472" (1.20cm)	1.35" (3.43cm)	5.7 x 4.1 x 2.2" (14.5 x 10.4 x 5.6cm)	02-217-749

* Supplied with rack and cover

Cryo Tube Block

Sample Type	No. of Wells	Well Diameter	Well Depth	Dimensions	Cat. No.
2.0mL Cryo Tubes	24	0.496" (1.26cm)	1.34" (3.40cm)	5.7 x 4.1 x 2.2" (14.5 x 10.4 x 5.6cm)	02-217-750

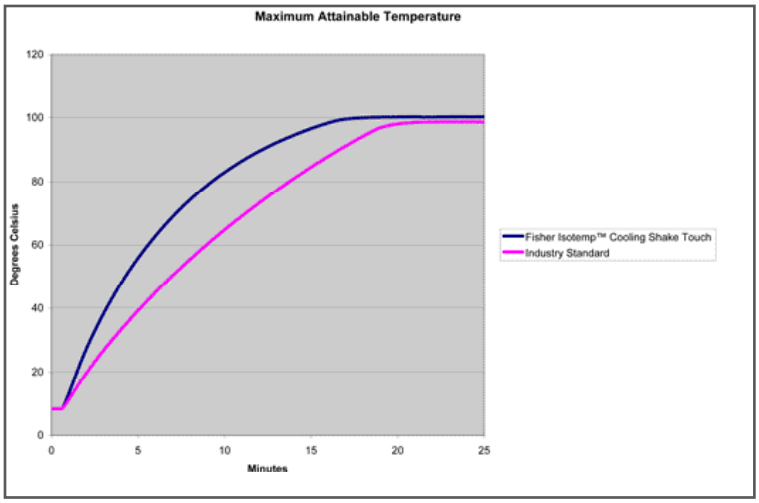
Conical Tube Blocks

Sample Type	No. of Wells	Well Diameter	Well Depth	Dimensions	Cat. No.
15mL Conical Tubes	9	0.680" (1.73cm)	4.02" (10.2cm)	5 x 4 x 5" (12.7 x 10.2 x 12.7cm)	02-217-751
50mL Conical Tubes	4	1.180" (3.00cm)	3.89" (9.88cm)	5 x 4 x 5" (12.7 x 10.2 x 12.7cm)	02-217-752

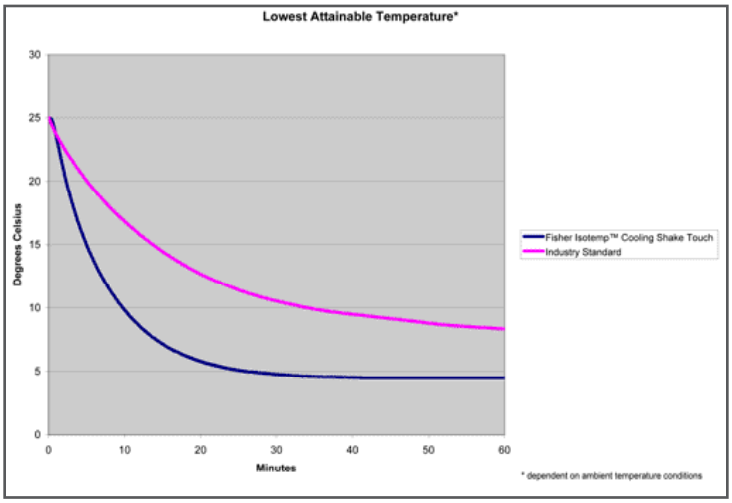
Fisher Scientific Introduces The New Industry Standard

The all new Fisher Scientific™ Isotemp™ 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



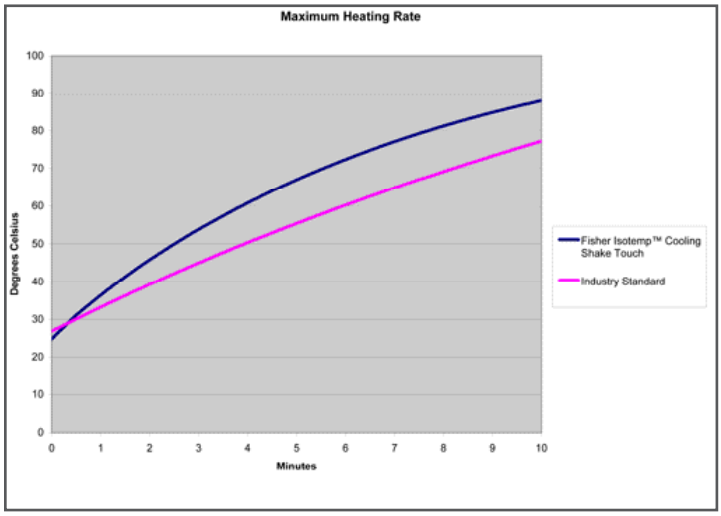
The maximum attainable temperature is 1.5˚C higher than the industry standard.



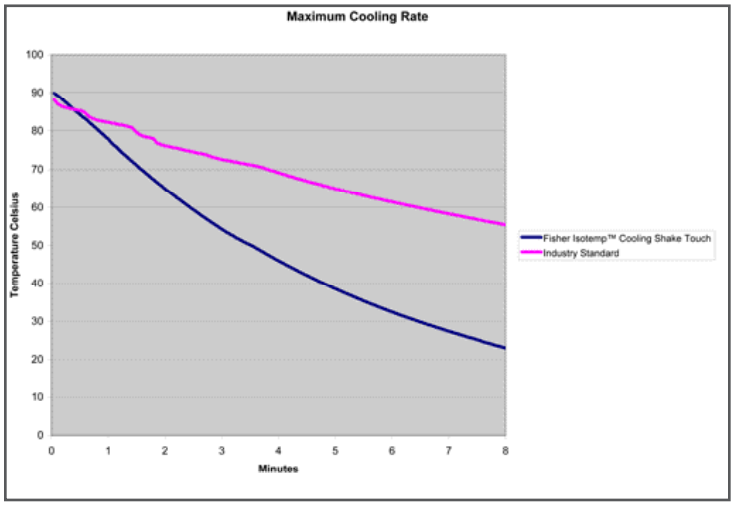
The lowest attainable temperature is 4˚C lower than the industry standard.

The Ramp Rates Will Get You There Faster

The Fisher Scientific™ Isotemp™ Cooling 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

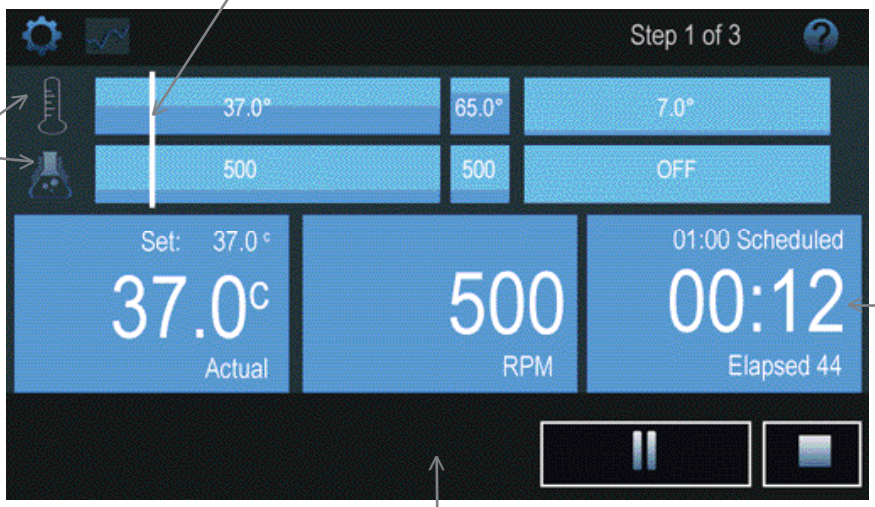
- Resistive touch technology always works – even with gloves
- Touch panel is sealed for easy cleaning
- Simple USB data logging for process verification
- Manual calibration is easy and intuitive

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

Specifications and Ordering Information

Speed range:	On Mode: Touch Mode:	300 to 2500 rpm 300 to 3500 rpm
Controls:		3-way power switch speed knob: variable 1 to 10 dial marks
Weight Capacity:		2.5 lbs (1.1 kg)
Overall dimensions (L x W x H):		9.5 x 6.6 x 6.3" (24.1 x 16.8 x 16cm)
Electrical (50/60 Hz):		120 volts, 0.25 amps, 30 watts
Ship Weight:		15 lbs (6.8 kg)

Description	Cat. No.
Standard Heavy-Duty Vortex Mixer, 120V	02-216-108

Fisher Scientific Standard Heavy-Duty Vortex Mixers

>> Designed for continuous duty
>> Variable speed

The Fisher Scientific Standard Heavy-Duty Vortex Mixer is a variable speed analog mixer that is designed for continuous duty. The heavy-duty design and efficient motor allow this mixer to operate in continuous duty and handle all accessories over the entire speed range. Choose from two modes of operation: "Touch" mode for mixing tubes when cup head or Universal Holder with cover is depressed, or "On" mode when using any of the accessory attachments for continuous operation. Mixer includes a cup head, Universal Holder with cover, and foam micro-tube insert for (38) 1.5 to 2.0 ml micro-tubes.

Shown with optional four plate holder 02-216-121 and stackable four plate holder 02-216-122

Specifications and Ordering Information

Speed range:	On Mode: Touch Mode:	300 to 2500 rpm 300 to 3500 rpm
Orbit:		4.9mm
Controls:		3-way power switch, LED display for time/speed up/down keys for set-point control
Weight Capacity:		2.5 lbs (1.1 kg)
Overall dimensions (L x W x H):		9.5 x 6.6 x 6.3" (24.1 x 16.8 x 16cm)
Electrical (50/60 Hz):		120 volts, 0.25 amps, 30 watts
Ship Weight:		15 lbs (6.8 kg)

Description	Cat. No.
Advanced Heavy-Duty Vortex Mixer, 120V	02-216-109

Fisher Scientific Advanced Heavy-Duty Vortex Mixers

>> Designed for continuous duty
>> LED displays for speed and time

The Fisher Scientific Advanced Heavy-Duty Vortex Mixer is ideal for applications that demand repeatable results. Mixer features touchpad controls and LED displays for accurate speed (rpm) and time (minutes and seconds) results. The heavy-duty design and efficient motor allow this mixer to operate in continuous duty and handle all accessories over the entire speed range. Choose from two modes of operation: "Touch" mode for mixing tubes when cup head or Universal Holder with cover is depressed, or "On "mode, when using any of the accessory attachments for continuous operation. Microprocessor control maintains set speed for strong, consistent mixing action. Timer will display elapsed time or when programmed to user defined time limits, the unit will shut off when time reaches zero. Mixer includes a cup head, Universal Holder with cover, and foam micro-tube insert for (38) 1.5 to 2.0 ml micro-tubes.

Isotemp™ Shake Touch

Fisher Scientific
Part of Thermo Fisher Scientific

In the United States:
For customer service, call 1-800-766-7000.
To fax an order, use 1-800-926-1166.
To order online: www.fishersci.com

In Canada:
For customer service, call 1-800-234-7437.
To fax an order, use 1-800-463-2996.
To order online: www.fishersci.ca

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