

- Ideal for cell culture applications
- Slow start/stop feature
- Efficient drive motor eliminates heat transfer to sample

Talboys Standard and Advanced Slow Speed Stirrers are designed for growth of suspension and micro-carrier cell cultures. Slow Speed Stirrers work with cell culture flasks and other vessels designed for slow magnetic stirring. Ideal for use in cold rooms, incubator, or CO<sub>2</sub> incubators (-10°C to 40°C), 20% to 80% relative humidity, non condensing environment.

### Operating Features:

**Low Profile Design:** Takes up minimal space and easily fits into fume hoods and most incubators. Spill-resistant housing channels fluids away from internal components. Cast aluminum base offers durability and added stability.

**Glass Filled Nylon Top Plate:** Features a chemical resistant, reflective white top plate surface that is easy to clean (4 position and 10L models).

**Aluminum Top Plate:** Durable aluminum top will not crack or chip. (1 position models)

**Large Top Plate:** Stirs up to 4 vessels at once with helpful position indicators.

**Microprocessor Control:** Precisely regulates speed through the entire range. Stirring function, with continuous duty motor and magnet, maintains set speed even under changing load or viscosity.

**Adjustment Knob:** Basic speed control knob with dial markings from 1 to 10 (Standard Series).

**LED Display:** Touch pad controls with easy-to-read, independent LED displays for speed and time. Speed is adjustable in 1rpm increments. Timer will display elapsed time or, when programmed to user defined limit, will shut off unit when time reaches zero (Advanced Series).

### Safety Features:

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

**Audible Alarm:** In timed mode, alarm will sound when time reaches zero (Advanced Series).

### Operating Conditions:

Units can be run in cold rooms, incubators, and CO<sub>2</sub> environments from -10 to 40°C (14 to 104°F), 20% to 80% relative humidity, non-condensing.

### Applications:

Uniform suspensions of cell cultures, hybridomas, or any slow controlled stirring.

### Ordering Information:

Units include a 92" (234cm) detachable, 3-wire cord and plug (230 volt units are supplied with Euro type plug). **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 speed range and time function are reported on the certificate with the associated uncertainties.



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### Specifications

Speed Range	1 to 150rpm
Timer (Advanced Series)	1 second to 160 hours
Top Plate Material	Glass filled nylon
4 Position / 10L	Aluminum
1 Position	
Top Plate Dimensions (L x W)	
4 Position / 10L	12.5 x 11" (31.8 x 27.9cm)
1 Position	7 x 7" (17.8 x 17.8cm)
Overall Dimensions (L x W x H)	
4 Position / 10L	17 x 11 x 4" (43.2 x 27.9 x 10.2cm)
1 Position	12.1 x 8.5 x 4" (30.7 x 21.6 x 9.9cm)
Ship Weight	
4 Position / 10L	14.5lbs (6.6kg)
1 Position	8.8lbs (4kg)

## Standard &amp; Advanced Slow Speed Stirrers

## Standard Slow-Speed Stirrers

Description	Electrical (50/60 Hz)	Positions	Maximum Capacity H <sub>2</sub> O*	Maximum Vessel Diameter	Part Number
Standard Slow Speed Stirrer 1	120V   0.14 amps   7.2 watts	1	2L	5.9" (15cm)	986374
Standard Slow Speed Stirrer 1	230V   0.14 amps   14.4 watts	1	2L	5.9" (15cm)	986375
Standard Slow Speed Stirrer 4	120V   0.14 amps   7.2 watts	4	1L	5.1" (13cm)	986380
Standard Slow Speed Stirrer 4	230V   0.14 amps   14.4 watts	4	1L	5.1" (13cm)	986381

## Advanced Slow-Speed Stirrers

Description	Electrical (50/60 Hz)	Positions	Maximum Capacity H <sub>2</sub> O*	Maximum Vessel Diameter	Part Number
Advanced Slow Speed Stirrer 1	120V   0.14 amps   7.2 watts	1	2L	5.9" (15cm)	986376
Advanced Slow Speed Stirrer 1	230V   0.14 amps   14.4 watts	1	2L	5.9" (15cm)	986377
Advanced Slow Speed Stirrer 4	120V   0.14 amps   7.2 watts	4	1L	5.1" (13cm)	986382
Advanced Slow Speed Stirrer 4	230V   0.14 amps   14.4 watts	4	1L	5.1" (13cm)	986383
Advanced Slow Speed Stirrer 10L	120V   0.14 amps   7.2 watts	1	10L	9.8" (25cm)	986378
Advanced Slow Speed Stirrer 10L	230V   0.14 amps   14.4 watts	1	10L	9.8" (25cm)	986379
Advanced Slow Speed Stirrer 1 with NIST Traceable Certificate	120V   0.14 amps   7.2 watts	1	2L	5.9" (15cm)	986376-C
Advanced Slow Speed Stirrer 1 with NIST Traceable Certificate	230V   0.14 amps   14.4 watts	1	2L	5.9" (15cm)	986377-C
Advanced Slow Speed Stirrer 4 with NIST Traceable Certificate	120V   0.14 amps   7.2 watts	4	1L	5.1" (13cm)	986382-C
Advanced Slow Speed Stirrer 4 with NIST Traceable Certificate	230V   0.14 amps   14.4 watts	4	1L	5.1" (13cm)	986383-C
Advanced Slow Speed Stirrer 10L with NIST Traceable Certificate	120V   0.14 amps   7.2 watts	1	10L	9.8" (25cm)	986378-C
Advanced Slow Speed Stirrer 10L with NIST Traceable Certificate	230V   0.14 amps   14.4 watts	1	10L	9.8" (25cm)	986379-C

\* Maximum capacity per position