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Standard Microplate Vortex Mixers

- Designed for continuous duty
- Designed for shaking microplates or tubes
- Optional double microplate holder available

The Talboys Standard Microplate Vortex Mixer is a variable speed analog mixer that is designed for continuous duty. The high speed and small orbit is optimal for effectively mixing microplates. Choose from two modes of operation: "Touch" mode which activates mixing when cup head is depressed, or "On" mode when using the microplate attachments for continuous operation.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information:

Mixer includes a cup head, single microplate holder, and a 92" (234cm) detachable, 3-wire cord and specified plug. Accessories that can be used on the Microplate Vortex Mixer are cup head, single microplate holder and double microplate holder. Additional accessories can be found on page 84. **5 year limited warranty on parts and labor.**

THIS PRODUCT INCLUDES:

Description	Part Number
Cup Head	9456TACUPHD



Description	Part Number
Microplate Holder (Single)	9456TAMPSGL



9456TAMPUSS

Specifications

Speed Range	On Mode:	300 to 2500rpm
	Touch Mode:	300 to 3500rpm
Orbit		3.5mm (0.13")
Controls		Analog
Capacity		2 microplates
Duty Rating		Continuous duty
Dimensions (L x W x H)		10.5 x 5.4 x 4.5" (26.7 x 13.7 x 11.4cm)
Ship Weight		12lbs (5.4kg)

Description	Electrical (50/60 Hz)	Part Number
Standard Microplate Vortex Mixer	120V 0.25 amps 30 watts	9456TAMPUSS
Standard Microplate Vortex Mixer-Euro Plug	230V 0.13 amps 30 watts	9456TAMPEUS
Standard Microplate Vortex Mixer-UK Plug	230V 0.13 amps 30 watts	9456TAMPUKS
Standard Microplate Vortex Mixer-Swiss Plug	230V 0.13 amps 30 watts	9456TAMPCHS

Advanced Microplate Vortex Mixers



- Designed for continuous duty
- Designed for shaking microplates or tubes
- LED displays for speed and time

The Talboys Advanced Microplate 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. Microprocessor control maintains set speed for strong, consistent mixing action. Timer will display elapsed time or, when programmed to a user defined time limit, the unit will shut off when time reaches zero. Choose from two modes of operation: "Touch" mode which activates mixing when cup head is depressed, or "On" mode when using the microplate attachments for continuous operation.

Operating Features:

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

LED Display: Touch pad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. 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.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information:

Mixer includes a cup head, single microplate holder, and a 92" (234cm) detachable, 3-wire cord and specified plug. Accessories that can be used on the Microplate Vortex Mixer are cup head, single microplate holder and double microplate holder. Additional accessories can be found on page 84. **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.

THIS PRODUCT INCLUDES:

Description	Part Number
Cup Head	9456TACUPHD



Description	Part Number
Microplate Holder (Single)	9456TAMPSGL



9456TAMPUSA

Specifications		
Speed Range	On Mode:	300 to 2500rpm
	Touch Mode:	300 to 3500rpm
Timer		1 second to 160 hours
Orbit		3.5mm (0.13")
Controls		Touch/Standby/On Rocker Switch, LED Displays For Speed/Time, Up/Down Buttons For Set-Point Control
Capacity		2 microplates
Duty Rating		Continuous duty
Dimensions (L x W x H)		10.5 x 5.4 x 4.5" (26.7 x 13.7 x 11.4cm)
Ship Weight		12lbs (5.4kg)

Description	Electrical (50/60 Hz)	Part Number
Advanced Microplate Vortex Mixer	120V 0.25 amps 30 watts	9456TAMPUSA
Advanced Microplate Vortex Mixer-Euro Plug	230V 0.13 amps 30 watts	9456TAMPEUA
Advanced Microplate Vortex Mixer-UK Plug	230V 0.13 amps 30 watts	9456TAMPUKA
Advanced Microplate Vortex Mixer-Swiss Plug	230V 0.13 amps 30 watts	9456TAMPCHA
Advanced Microplate Vortex Mixer with NIST Traceable Certificate	120V 0.25 amps 30 watts	9456TAMPUSA-C
Advanced Microplate Vortex Mixer-Euro Plug with NIST Traceable Certificate	230V 0.13 amps 30 watts	9456TAMPEUA-C

Standard Heavy-Duty Vortex Mixers

- Designed for continuous duty
- Includes foam insert for 1.5mL to 2.0mL microtubes
- Heavy-duty design

The Talboys 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.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information:

Mixer includes a cup head, universal holder with cover, foam microtube insert for (38) 1.5 to 2.0 mL microtubes, and a 92" (234cm) detachable, 3-wire cord and specified plug. Additional accessories can be found on page 84. **5 year limited warranty on parts and labor.**



9456TAHDUSS with
9456TAT2629

THIS PRODUCT INCLUDES:

Description	Part Number
Cup Head	9456TACUPHD



Description	Part Number
Universal Holder	9456TAUNIHL
Universal Holder Cover	9456TAUNICVR



Description	Part Number
Foam Insert (1.5 to 2.0 microtubes)	9456TAMTB15
Universal Holder Cover	9456TAUNIHL



Specifications

Speed Range	On Mode: Touch Mode:	300 to 2500rpm 300 to 3500rpm
Orbit		4.9mm (0.19")
Controls		Analog
Capacity		2.5lbs (1.1kg)
Duty Rating		Continuous duty
Dimensions (L x W x H)		9.5 x 6.6 x 6.3" (24.1 x 16.8 x 16cm)
Ship Weight		15lbs (6.8kg)

Description	Electrical (50/60 Hz)	Part Number
Standard Heavy-Duty Vortex Mixer	120V 0.25 amps 30 watts	9456TAHDUSS
Standard Heavy-Duty Vortex Mixer-Euro Plug	230V 0.13 amps 30 watts	9456TAHDEUS
Standard Heavy-Duty Vortex Mixer-UK Plug	230V 0.13 amps 30 watts	9456TAHDUKS
Standard Heavy-Duty Vortex Mixer-Swiss Plug	230V 0.13 amps 30 watts	9456TAHDCHS

Advanced Heavy-Duty Vortex Mixers



- Designed for continuous duty
- LED displays for speed and time
- Includes foam insert for 1.5mL to 2.0mL microtubes



9456TAHDUSA with 9456TAMPLT4

The Talboys 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.

Operating Features:

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

LED Display: Touch pad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. 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.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information:

Mixer includes a cup head, universal holder with cover, foam microtube insert for (38) 1.5 to 2.0 mL microtubes, and a 92" (234cm) detachable, 3-wire cord and specified plug. Additional accessories can be found on page 84. **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.

THIS PRODUCT INCLUDES:

Description	Part Number
Cup Head	9456TACUPHD



Description	Part Number
Universal Holder	9456TAUNIHL
Universal Holder Cover	9456TAUNICVR



Description	Part Number
Foam Insert (1.5 to 2.0 microtubes)	9456TAMTB15
Universal Holder Cover	9456TAUNIHL



Description	Electrical (50/60 Hz)	Part Number
Advanced Heavy-Duty Vortex Mixer	120V 0.25 amps 30 watts	9456TAHDUSA
Advanced Heavy-Duty Vortex Mixer-Euro Plug	230V 0.13 amps 30 watts	9456TAHDEUA
Advanced Heavy-Duty Vortex Mixer-UK Plug	230V 0.13 amps 30 watts	9456TAHDUKA
Advanced Heavy-Duty Vortex Mixer-Swiss Plug	230V 0.13 amps 30 watts	9456TAHDCHA
Advanced Heavy-Duty Vortex Mixer with NIST Traceable Certificate	120V 0.25 amps 30 watts	9456TAHDUSA-C
Advanced Heavy-Duty Vortex Mixer-Euro Plug with NIST Traceable Certificate	230V 0.13 amps 30 watts	9456TAHDEUA-C

Accessories

Foam Insert for 0.5mL Microtubes

Foam insert holds (52) 0.5mL microtubes. Requires Universal Holder.

Description	Part Number
0.5mL microtubes	9456TAMTB05
Universal Holder	9456TAUNIHLDR



Foam Insert for 1.5 to 2.0mL Microtubes

Foam insert holds (38) 1.5 to 2.0mL microtubes. Requires Universal Holder.

Description	Part Number
1.5 to 2.0mL microtubes	9456TAMTB15
Universal Holder	9456TAUNIHLDR



Foam Insert for 12-13mm Test Tubes

Foam insert holds (34) 12-13mm diameter test tubes. Requires Universal Holder.

Description	Part Number
12-13mm test tubes	9456TAT1213
Universal Holder	9456TAUNIHLDR



Foam Insert for 15-18mm Test Tubes

Foam insert holds (20) 15-18mm diameter test tubes. Ideal for 15mL centrifuge tubes. Requires Universal Holder.

Description	Part Number
15-18mm test tubes	9456TAT1518
Universal Holder	9456TAUNIHLDR



Foam Insert for 19-21mm Test Tubes

Foam insert holds (18) 19-21mm diameter test tubes. Requires Universal Holder.

Description	Part Number
19-21mm test tubes	9456TAT1921
Universal Holder	9456TAUNIHLDR



Foam Insert for 22-25mm Test Tubes

Foam insert holds (13) 22-25mm diameter test tubes. Requires Universal Holder.

Description	Part Number
22-25mm test tubes	9456TAT2225
Universal Holder	9456TAUNIHLDR



Foam Insert for 26-29mm Test Tubes

Foam insert holds (4) 26-29mm diameter test tubes. Ideal for 50mL centrifuge tubes. Requires Universal Holder.

Description	Part Number
26-29mm test tubes	9456TAT2629
Universal Holder	9456TAUNIHLDR



Single Tube Holder

Single tube, hands free mixing designed to fit on the Heavy-Duty Vortex Mixer. Easily attached to the top of mixer and is magnetically secured. Accepts tubes from 2.5 to 4.5" (6.4-11.4cm). Minimum tube diameter is 0.75" (19mm).

Description	Part Number
Single Holder	9456TASTHLDR



Cup Head

Designed for mixing 1 tube at a time.

Description	Part Number
Cup Head	9456TACUPHD



Small Vessel Holder

Rubber holder secures 125 and 250mL Erlenmeyer flasks. Vessel holder also includes a grip mat. Requires Universal Holder.

Description	Part Number
Small Vessel Holder	9456TASMVSL
Universal Holder	9456TAUNIHLDR



Large Vessel Holder

Rubber holder secures 500 and 1000mL Erlenmeyer flasks. Vessel holder also includes a grip mat. Requires Universal Holder.

Description	Part Number
Large Vessel Holder	9456TALGVSL
Universal Holder	9456TAUNIHLDR



Microplate Holder (Single)

Designed to hold one standard microplate.

Description	Part Number
Single Holder	9456TAMPSTGL



Microplate Holder (Double)

Designed to hold two standard microplates.

Description	Part Number
Double Holder	9456TAMPDBL



Microplate Holder (Quad)

Designed to hold four standard microplates.

Description	Part Number
Quad Holder	9456TAMPPLT4



Stackable Microplate Holder Four

Designed to maximize the capacity of the Heavy-Duty Vortex Mixer to eight microplates by stacking the tray on top of the four plate holder.

Description	Part Number
Stackable Holder	9456TAMP4STK



Flat Foam Insert

Ideal for custom applications. Can be cut or drilled to fit your specifications. Requires Universal Holder.

Description	Part Number
Flat Foam Insert	9456TABLANK
Universal Holder	9456TAUNIHLDR



Universal Holder & Cover

Replacement for items supplied with Heavy-Duty Vortex Mixer. Cover allows for mixing irregularly shaped objects.

Description	Part Number
Universal Holder	9456TAUNIHLDR
Universal Holder Cover	9456TAUNICVR



Basic Vortex Mixers



- Fixed high speed mixing
- Touch mode operation
- Includes cup head and 3" head with cover

Starts mixing when the cup head is pressed down. Speed is fixed at full rpm to provide vigorous vortexing of samples.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information:

Includes both cup head and 3" head with cover. Additional accessories can be found on pages 89-90. **5 year limited warranty on parts and labor.**

THIS PRODUCT INCLUDES:

Description	Part Number
Cup Head	945643

Description	Part Number
3" (7.6cm) Head	945641
3" (7.6cm) Rubber Head Cover	945642



945610

Specifications

Speed Range*	120V	3200rpm
	230V	2500rpm
Orbit	4.9mm (0.19")	
Controls	None	
Duty Rating	Intermittent duty	
Dimensions (L x W x H)	8 x 5 x 5.25" (20.3 x 12.7 x 13.3cm)	
Ship Weight	14.4lbs (6.5kg)	

* Maximum speed will vary depending on accessory used.

Description	Electrical (50/60 Hz)	Part Number
Basic Vortex Mixer	120V 1.2 amps 150 watts	945610
Basic Vortex Mixer-US Plug	230V 0.6 amps 150 watts	945611
Basic Vortex Mixer-UK Plug	230V 0.6 amps 150 watts	945612
Basic Vortex Mixer-Euro Plug	230V 0.6 amps 150 watts	945613
Basic Vortex Mixer-Swiss Plug	230V 0.6 amps 150 watts	945614

Standard Vortex Mixers

- Variable, analog speed control
- Continuous or touch mode operation
- Includes cup head and 3" head with cover

Control allows low rpm start-up for gentle shaking or high speed mixing for vigorous vortexing of samples. Two modes of operation: "Continuous" mode when using accessory attachments or "Touch" mode which activates mixing when depressing the cup head.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information:

Includes both cup head and 3" head with cover. Additional accessories can be found on pages 89-90. **5 year limited warranty on parts and labor.**

THIS PRODUCT INCLUDES:

Description	Part Number
Cup Head	945643



Description	Part Number
3" (7.6cm) Head	945641
3" (7.6cm) Rubber Head Cover	945642



945600

Specifications		
Speed Range*	120V	300 to 3200rpm
	230V	300 to 2500rpm
Orbit	4.9mm (0.194")	
Controls	Auto/Off/On Rocker Switch, Speed Knob: Variable 1 to 10 Dial Marks	
Duty Rating	Intermittent duty	
Dimensions (L x W x H)	8 x 5 x 5.25" (20.3 x 12.7 x 13.3cm)	
Ship Weight	14.4lbs (6.5kg)	

* Maximum speed will vary depending on accessory used.

Description	Electrical (50/60 Hz)	Part Number
Standard Vortex Mixer	120V 1.2 amps 150 watts	945600
Standard Vortex Mixer-US Plug	230V 0.6 amps 150 watts	945601
Standard Vortex Mixer-UK Plug	230V 0.6 amps 150 watts	945604
Standard Vortex Mixer-Euro Plug	230V 0.6 amps 150 watts	945605
Standard Vortex Mixer-Swiss Plug	230V 0.6 amps 150 watts	945606

Advanced Vortex Mixers



- LED displays for speed and time
- Continuous or touch mode operation
- Microprocessor controls

Ideal for applications that demand repeatable results. Microprocessor control maintains set speed for strong, consistent mixing action. Timer will display elapsed time or, when programmed to user defined time limit, the unit will shut off when time reaches zero. Two modes of operation: "Continuous" mode when using accessory attachments or "Touch" mode which activates mixing when depressing the cup head.

Operating Features:

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

LED Display: Touch pad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. 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.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information:

Includes both cup head and 3" head with cover. Additional accessories can be found on pages 89-90. **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.

THIS PRODUCT INCLUDES:

Description	Part Number
Cup Head	945643
Description	Part Number
3" (7.6cm) Head	945641
3" (7.6cm) Rubber Head Cover	945642



945603

Specifications		
Speed Range*	120V 230V	500 to 3000rpm 500 to 2500rpm
Timer		1 second to 160 hours
Orbit		4.9mm (0.194")
Controls		Auto/Standby/On Rocker Switch, LED Displays For Speed/Time, Up/Down Buttons For Set-Point Control
Duty Rating		Intermittent duty
Dimensions (L x W x H)		8 x 5 x 5.25" (20.3 x 12.7 x 13.3cm)
Ship Weight		14.4lbs (6.5kg)

* Maximum speed will vary depending on accessory used.

Description	Electrical (50/60 Hz)	Part Number
Advanced Vortex Mixer	120V 1.2 amps 150 watts	945603
Advanced Vortex Mixer-US Plug	230V 0.6 amps 150 watts	945616
Advanced Vortex Mixer-Euro Plug	230V 0.6 amps 150 watts	945617
Advanced Vortex Mixer-UK Plug	230V 0.6 amps 150 watts	945618
Advanced Vortex Mixer-Swiss Plug	230V 0.6 amps 150 watts	945619
Advanced Vortex Mixer with NIST Traceable Certificate	120V 1.2 amps 150 watts	945603-C
Advanced Vortex Mixer-Euro Plug with NIST Traceable Certificate	230V 0.6 amps 150 watts	945617-C



Pulsing Vortex Mixers

- LED displays for time and speed
- Continuous or touch mode operation
- Glass bead cell disruption/homogenization

Powerful pulsing vortex action produces excellent cell disruption for glass bead procedures. Microprocessor controlled. Capable of complete cell disruption of samples in only minutes. Unique pulsing action reduces heat generation while providing more effective mixing and disruption. Displayed time counts up during continuous operation and counts down during timed runs.

Operating Features:

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

LED Display: Touch pad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. 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.

Pulsing Mode: Unique pulsing action reduces heat generation while providing more effective mixing and disruption.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Ordering Information:

Includes cup head, 3" head with cover, and an easy-to-load 1.5mL to 2mL Micro-Tube Holder. Holder has a built-in cup head. Additional accessories can be found on pages 89-90. **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.

THIS PRODUCT INCLUDES:

Description	Part Number
Cup Head	945643

Description	Part Number
3" (7.6cm) Head	945641
3" (7.6cm) Rubber Head Cover	945642

Description	Part Number
Stainless Steel Tube Holder	945646



945620

Specifications

Speed Range*	120V 230V	500 to 3000rpm 500 to 2500rpm
Timer		1 second to 160 hours
Orbit		2.5mm (0.098")
Controls		Auto/Standby/On Rocker Switch, LED Displays For Speed/Time, Up/Down Buttons For Set-Point Control Pulse Button
Duty Rating		Intermittent duty
Dimensions (L x W x H)		8 x 5 x 5.25" (20.3 x 12.7 x 13.3cm)
Ship Weight		14.4lbs (6.5kg)

* Maximum speed will vary depending on accessory used.

Description	Electrical (50/60 Hz)	Part Number
Pulsing Vortex Mixer	120V 1.2 amps 150 watts	945620
Pulsing Vortex Mixer-US Plug	230V 0.6 amps 150 watts	945621
Pulsing Vortex Mixer-Euro Plug	230V 0.6 amps 150 watts	945622
Pulsing Vortex Mixer-UK Plug	230V 0.6 amps 150 watts	945623
Pulsing Vortex Mixer-Swiss Plug	230V 0.6 amps 150 watts	945624
Pulsing Vortex Mixer with NIST Traceable Certificate	120V 1.2 amps 150 watts	945620-C
Pulsing Vortex Mixer-US Plug with NIST Traceable Certificate	230V 0.6 amps 150 watts	945621-C

Vortex Mixer Accessories

Micro-Tube Holder

Mixes (48) 0.25 to 2mL micro-tubes. Requires Insert Retainer.

Description	Part Number
Micro-Tube Holder (2 pack)	945638
Insert Retainer	945631



9 to 13mm Tube Holder

Ideal for mixing 5mL culture tubes and micro-vials. Requires Insert Retainer.

Description	Part Number
9 to 13mm Tube Holder (2 pack)	945634
Insert Retainer	945631



14 to 19mm Tube Holder

Ideal for mixing up to (8) 15mL centrifuge tubes. Requires Insert Retainer.

Description	Part Number
14 to 19mm Tube Holder (2 pack)	945635
Insert Retainer	945631



20 to 25mm Tube Holder

Ideal for mixing up to (8) 50mL centrifuge tubes. Requires Insert Retainer

Description	Part Number
20 to 25mm Tube Holder (2 pack)	945636
Insert Retainer	945631



Vessel Harness

Mixes Erlenmeyer flasks and media bottles. Requires Insert Retainer.

Description	Part Number
Vessel Harness (2 pack)	945633
Insert Retainer	945631



Cup Head

Designed for mixing 1 tube at a time.

Description	Part Number
Cup Head	945643



3" Rubber Head Cover and 3" Head

Designed for mixing irregular shaped objects.

Description	Part Number
3" (7.6cm) Rubber Head Cover	945642
3" (7.6cm) Head	945641
3" (7.6cm) Head with Rubber Cover	945651



Microplate Holder

Ideal for mixing 96-well plates or deep well blocks. Requires Insert Retainer.

Description	Part Number
Microplate Holder (2 pack)	945639
Insert Retainer	945631



Flat Foam Insert

Ideal for custom applications. Can be cut or drilled to fit your specifications. Requires Insert Retainer.

Description	Part Number
Flat Foam Insert (2 pack)	945644
Insert Retainer	945631



Ampule Tube Holder

Mixes up to 4 storage vials and test tubes.

Description	Part Number
15 to 17mm Ampule Tube Holder	945647
10 to 17mm Ampule Tube Holder	945648



Stainless Steel Tube Holder

Mixes up to (12) 1.5 to 5mL tubes. Stainless steel construction.

Description	Part Number
Tube Holder	945646



Micro-Tube and Microplate Holder Kit

Includes:

- 1 Micro-Tube Holder
- 1 Microplate Holder
- 1 Insert Retainer

Description	Part Number
Micro-Tube & Microplate Holder Kit	945637



Tube Holder Kit

Includes:

- (1) 9 to 13mm Tube Holder
- (1) 14 to 19mm Tube Holder
- (1) 20 to 25mm Tube Holder
- 1 Flat Foam Insert
- 2 Vessel Harnesses
- 1 Insert Retainer

Description	Part Number
Tube Holder Kit	945630



Vortex Mixer Accessories

Single Tube Holder

Single tube, hands free mixing. Easily attaches to the top of any Vortex Mixer with the use of a strong magnetic base. Accepts tubes from 2.5 to 4.5" (6.4 to 11.4cm) in length. Minimum tube diameter of 0.75" (19mm).

Description	Part Number
Single Tube Holder	945659



Adapter for Vortex-Genie® Mixer*

Adapter plate easily adheres to the Vortex-Genie® Mixer housing so Single Tube Holder (sold separately) can be attached.

Description	Part Number
Adapter plate	945660

* The Vortex-Genie® Mixer is a registered trademark of Scientific Industries, Inc.



Single Tube Holder Accessories

0.5mL Micro-Tube Holder

Mixes (24) 0.5mL micro-tubes. For use with Single Tube Holder.

Description	Part Number
Micro-Tube Holder (0.5mL)	945655



1.5mL to 2.0mL Micro-Tube Holder

Mixes (18) 1.5 to 2mL micro-tubes. For use with Single Tube Holder.

Description	Part Number
Microtube Holder (1.5mL to 2.0mL)	945656



200 Micron Zirconium Beads

Acid Washed Zirconium Grinding Beads

This high-density bead has enormous grinding energy; resulting in reduced grinding times. Beads have been acid washed to remove contaminants.

Application: Suitable for yeast and bacterial spores.

Description	Part Number
250 gram bottle	930117

Molecular Biology Grade Zirconium Grinding Beads

Treated to be DNase/RNase-free, these beads are useful for the preparation of samples for molecular biology applications.

Application: Preparation of cells for Real Time PCR.

Description	Part Number
250 gram bottle	930118

Low Protein Binding Zirconium Grinding Beads

Treated to be DNase/RNase-free, these beads are useful for the preparation of samples for molecular biology applications.

Application: Preparation of cells for Real Time PCR.

Description	Part Number
250 gram bottle	930119

400 Micron Silica/Glass Beads

Acid Washed Silica/Glass Beads

Useful for standard applications.

Application: Good for disrupting molds and yeast.

Description	Part Number
200 gram bottle	930111

Molecular Biology Grade Silica/Glass Beads

Treated to be DNase/RNase-free, these beads are useful for preparing samples for molecular analysis

Application: Molecular applications for disrupting molds and yeast.

Description	Part Number
200 gram bottle	930112

Low Protein Binding Silica/Glass Beads

These treated beads are low protein binding and useful for homogenizing samples for protein analysis.

Application: Disruption of molds/yeasts for high protein recovery.

Description	Part Number
200 gram bottle	930113

800 Micron Silica/Glass Beads

Acid Washed Silica/Glass Beads

Excellent impact energy due to their larger size.

Application: Good general grinding media for fungi and spores.

Description	Part Number
200 gram bottle	930114

Molecular Biology Grade Silica/Glass Beads

Beads are DNase/RNase-free treated and useful for the preparation of samples for molecular applications and analysis.

Application: Useful for disrupting fungi and spores.

Description	Part Number
200 gram bottle	930115

Low Protein Binding Silica/Glass Beads

Beads adsorb less protein than standard beads and are useful when high protein recovery is necessary.

Application: Best choice for preparation of filamentous fungi, spores or pollen that require high protein recovery.

Description	Part Number
200 gram bottle	930116

Standard Multi-Tube Vortexers



- Process up to 50 samples at a time
- Continuous or timed operation
- Includes foam rack for 12mm tubes

Conveniently angled front panel features rocker switch for run, time and standby modes.

Operating Features:

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

Adjustment Knobs: Basic speed and time knobs with 1 to 10 dial markings.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Applications:

Suspensions, high throughput testing in clinical, environmental, and chemistry labs.

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 Tray Pad Set for support and one 12mm Test Tube Foam Rack (945072). Additional accessories can be found on pages 93. **5 year limited warranty on parts and labor.**

Available in Stainless Steel

One piece housing design optimizes clean-ups. Ideal for applications requiring accuracy and repeatability. The stainless steel one piece housing design is conducive to keeping your vortexer clean and free from contaminants.



945007 with 945072

Specifications	
Speed Range*	1200 to 2400rpm
Timer	0 to 60 seconds
Orbit	3.6mm (0.14")
Maximum Weight Capacity	10lbs (4.5kg)
Duty Rating	Continuous duty
Tray Dimensions (L x W)	7.25 x 12.25" (18.4 x 31.1cm)
Overall Dimensions (L x W x H)	9.5 x 15.1 x 16" (24.1 x 38.4 x 40.6 cm)
Ship Weight	42lbs (19.1kg)

* Maximum speed will vary depending on load.

Description	Electrical (50/60 Hz)	Part Number
Standard Multi-Tube Vortexer	120V 0.8 amps 100 watts	945007
Standard Multi-Tube Vortexer	230V 0.4 amps 100 watts	945008
Standard Stainless Steel Multi-Tube Vortexer	120V 0.8 amps 100 watts	945007S
Standard Stainless Steel Multi-Tube Vortexer	230V 0.4 amps 100 watts	945008S

Advanced Multi-Tube Vortexers

- Process up to 50 samples at a time
- LED displays for speed and time
- Pulsing mode

Ideal for applications requiring accuracy and repeatability.

Operating Features:

Microprocessor Control: The variable speed microprocessor control provides consistent uniform mixing action.

LED Display: Touch pad controls with easy-to-read, independent LED displays for speed and time allow operator to view both settings at once. Provides repeatable and accurate results every time and is easily visible across lab benches. 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.

Pulsing Mode: Programmable pulsing mode allows user to adjust the pulse-on and pulse-off times between 1 and 59 seconds in 1 second intervals. This feature enhances the vortex action by creating a more vigorous mix.

Operating Conditions:

Unit can be run in conditions from 4 to 40°C (39 to 104°F), 20% to 85% relative humidity, non-condensing.

Applications:

Suspensions, high throughput testing in clinical, environmental, and chemistry labs.

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 Tray Pad Set for support and one 12mm Test Tube Foam Rack (945072). Additional accessories can be found on pages 93. **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.

Available in Stainless Steel

One piece housing design optimizes clean-ups. Ideal for applications requiring accuracy and repeatability. The stainless steel one piece housing design is conducive to keeping your vortexer clean and free from contaminants.



945065 with 945075

Specifications	
Speed Range*	500 to 2500rpm
Speed Accuracy	± 25rpm
Timer	1 second to 160 hours
Orbit	3.6mm (0.14")
Maximum Weight Capacity	10lbs (4.5kg)
Duty Rating	Continuous duty
Tray Dimensions (L x W)	7.25 x 12.25" (18.4 x 31.1cm)
Overall Dimensions (L x W x H)	9.5 x 15.1 x 16" (24.1 x 38.4 x 40.6 cm)
Ship Weight	42lbs (19.1kg)

* Maximum speed will vary depending on load.

Description	Electrical (50/60 Hz)	Part Number
Advanced Multi-Tube Vortexer	120V 0.8 amps 100 watts	945065
Advanced Multi-Tube Vortexer	230V 0.4 amps 100 watts	945066
Advanced Multi-Tube Vortexer with NIST Traceable Certificate	120V 0.8 amps 100 watts	945065-C
Advanced Multi-Tube Vortexer with NIST Traceable Certificate	230V 0.4 amps 100 watts	945066-C
Advanced Stainless Steel Multi-Tube Vortexer	120V 0.8 amps 100 watts	945065S
Advanced Stainless Steel Multi-Tube Vortexer	230V 0.4 amps 100 watts	945066S
Advanced Stainless Steel Multi-Tube Vortexer with NIST Traceable Certificate	120V 0.8 amps 100 watts	945065S-C
Advanced Stainless Steel Multi-Tube Vortexer with NIST Traceable Certificate	230V 0.4 amps 100 watts	945066S-C

Multi-Tube Vortexer Accessories

Foam Test Tube Racks

Description	Tube Capacity	Color	Dimensions (L x W x H)	Part Number
10mm Test Tube Foam Rack	50	Gray	5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm)	945071
12mm Test Tube Foam Rack	50	Blue	5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm)	945072
13mm Test Tube Foam Rack	50	Yellow	5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm)	945073
16mm Test Tube Foam Rack (for 15mL centrifuge tubes)	50	Green	5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm)	945074
25mm Test Tube Foam Rack	28	White	5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm)	945076
29mm Test Tube Foam Rack (for 50mL centrifuge tubes)	15	Red	5.5 x 9.5 x 2" (14 x 24.1 x 5.1cm)	945075
Replacement Tray Pad Set (upper & lower)	N/A	Gray	7 x 12 x 1" (17.8 x 30.5 x 2.5cm)	945010



Post Extension Kit

Adds 6" (15.2cm) to the post of the Multi-Tube Vortex Mixer to accommodate tubes up to 10" (25.4cm) tall.

Description	Part Number
Post Extension Kit	945009