

# Mixers / Shakers

LABQUAKE® ROTISSERIE

**Thermolyne**

Labquake Rotisserie



## LOW COST ALTERNATIVE TO HYBRIDIZATIONS!

- — Accommodates 50 ml conical tubes or 150 - 300 mm bottles in addition to standard hybridization bottles
- — Can withstand temperatures from 4°C to 60°C



## PRODUCT DESCRIPTION

- Use for room temperature hybridizations or in an existing incubator or oven.
- Easy placement and removal of bottles.
- Compact and portable.

## OPERATION

- Rotate at a constant 8 rpm.
- Tri-directional rotation assures optimal distribution of minimal amount of probe solution.
- No need to turn off motor when removing or loading bottles.

## APPLICATIONS

- Hybridizations.
- Western Blots.
- Southern Blots.
- Northern Blots.
- Incubating cells adhered to beads.

## PRODUCT SPECIFICATIONS

Type	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	H	D	
<b>Small Labquake Rotisserie (150 mm bottles)</b>				
M90600	10.5 (26.7)	6.5 (16.5)	4.5 (11.4)	2 (.9)
<b>Large Labquake Rotisserie (300 ml bottles)</b>				
M107600	18.5 (47)	6.6 (16.8)	4.5 (11.4)	4.5 (2.0)

## ORDERING INFORMATION

Model #	Volts	Electrical Amps	Hertz	Operating Watt	US List Price
M90615	120	0.10	50/60	3	\$288.00
M90610-33	240	0.10	50/60	3	\$288.00
M107625	120	0.10	50/60	3	\$315.00
M107620-33	240	0.10	50/60	3	\$315.00

-33 Models CE marked.

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Express Shipping  
Guaranteed!\*



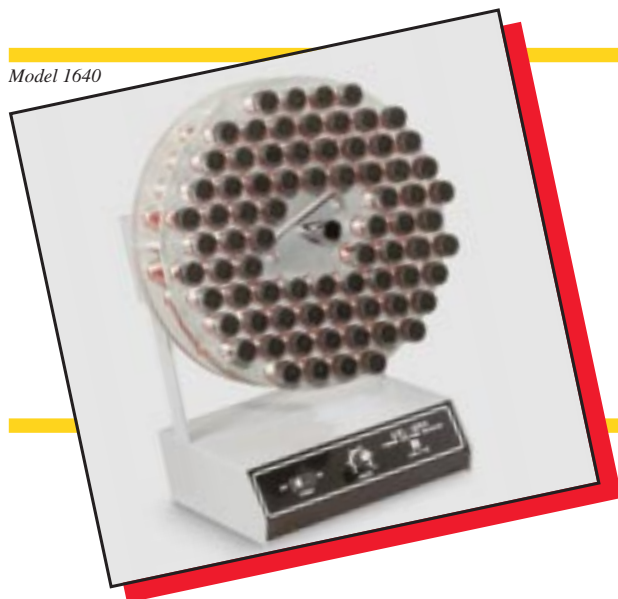
\*see inside front cover for details

# Mixers / Shakers

## CEL-GRO TISSUE CULTURE ROTATORS

Lab-Line

Model 1640



### OPTIMAL CULTURE RESULTS!

- — Available in single or dual drum configuration with adjustable drum angle
- — Choose from fixed or adjustable speed
- ★ — 24 Month Warranty

### PRODUCT DESCRIPTION

Models 1640, 1641, 1645, 1646

- Powder coated stainless steel outer body construction for durability and corrosion resistance.
- Model 1640 holds one drum with a total capacity of 142, 16 mm tubes; 76, 25 mm tubes; Or 60, 50 mm tubes; drum angle adjusts from 5° above horizontal to 90°; solid state speed controller adjusts from 5 to 70 rpm. (Drums and rotator bodies are ordered separately.)
- Model 1645 holds two drums with total capacity of 284, 16 mm tubes; 152, 25 mm tubes; or 120, 50mm tubes; constant speed motor with built-in gear reducer maintains 12 rph (0.2 rpm) rotation; drums can be lifted off rollers without interrupting operation of unit; adjusting screw on unit base varies angle of elevation. (Drums and rotator bodies are ordered separately.)

### OPERATION

- Variable speed and adjustable angle rotation for optimum culture results in such applications as growth of tissues and viruses, hormone production from selected tissues, sample testing for the presence of viruses and cytotoxicity assays.
- Pilot light indicates when unit is on.
- Operates in standard incubators for cultivation under controlled temperature conditions up to 40°C.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

### ORDERING INFORMATION



Type	Volts	Amps	Hz	Watts	W	Exterior (with Drum) Inches (cm)		Shipping Weight Lb. (kg)	US List Price
						H	D		
1640	120	0.5	60	60	14 (36)	22.5 (57)	15 (38)	19 (9)	\$1102.00
1641	240	0.3	50	60	14 (36)	22.5 (57)	15 (38)	19 (9)	\$1206.00
1641CE	240	0.3	50	60	14 (36)	22.5 (57)	15 (38)	19 (9)	\$1206.00
1645	120	0.8	60	100	15.5 (39)	18 (46)	18 (46)	28 (13)	\$1227.00
1646	240	0.4	50	100	15.5 (36)	18 (46)	18 (46)	28 (13)	\$1316.00
1646CE	240	0.4	50	100	15.5 (36)	18 (46)	18 (46)	28 (13)	\$1316.00

### ACCESSORIES

Cat. #	Description	Tube Capacity	W	Exterior Dimensions (with Drum) Inches (cm)		Shipping Weight Lb. (kg)	US List Price
				H	D		
1647	Tissue Culture Drum, 16 mm	142		14" Diameter	(36)	5 (2)	\$296.00
1648	Tissue Culture Drum, 25 mm	76		14" Diameter	(36)	5 (2)	\$296.00
1651	Tissue Culture Drum, 50 mm	60		14" Diameter	(36)	5 (2)	\$296.00

Model 1645

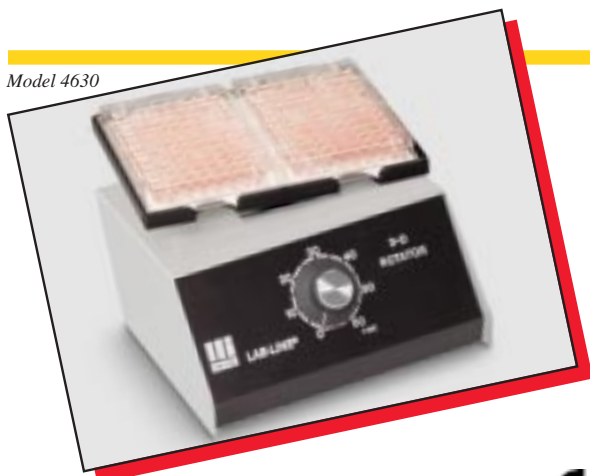


# Mixers / Shakers

## ROTATORS

**Lab-Line**

Model 4630



### BI-DIRECTIONAL ECONOMY MODEL!

- — Compact, light-weight design
- — Ideal for serological tests
- — Bidirectional rocking at 10° angle through 360° rotation
- ★ — 24 Month Warranty

### PRODUCT DESCRIPTION

- Delivers gentle rocking motion at a 10° angle through a 360° rotation at 30 rpm.
- Rugged powder coated steel body design has minimized footprint to conserve bench top space.
- White platform mat for easy sample viewing.
- 60 minute mechanical timer—use as on/off switch or set for continuous operation.
- White non-skid 6.75" x 5" (17 x 13 cm) platform can hold 2 microtiter plates, vacutainers or other glassware.
- Operates in temperatures from 4°C to 40°C.
- Maximum load: 3 lb. (1.4 kg).

### ORDERING INFORMATION

Model #	Volts	Amps	Watts	Hz	Overall Dimensions*			Shipping Weight Lb. (kg)	US List Price
					W Inches (cm)	H Inches (cm)	D Inches (cm)		
4630	120	0.3	60	50/60	6.9 (17)	7 (18)	8.1 (21)	25 (11)	\$421.00
4630-1	240	0.3	50	50/60	6.9 (17)	7 (18)	8.1 (21)	25 (11)	\$421.00
4630-1CE	240	0.3	50	50/60	6.9 (17)	7 (18)	8.1 (21)	25 (11)	\$421.00

\*Without platform; Platform Dimensions: 6.75" x 5" (17 x 13 cm)



Model 4631



### DELUXE BI-DIRECTIONAL ROTATOR!

- — Compact, light-weight design
- — Solid state speed controller adjusts from 0 to 25 rpm
- — 16" x 14" (41 x 36 cm) platform
- ★ — 24 Month Warranty

### PRODUCT DESCRIPTION

- Provides gentle bi-directional orbital rotation.
- Solid state speed control.
- Ideal for hybridization blotting procedures or staining and destaining gels.
- Non-skid platform can accommodate 2 pyrex dishes.
- Bidirectional horizontal and vertical orbital rotation through a 6° angle.
- Continuous-duty motor and direct drive assembly without belts or pulleys to replace provides reliable long-term performance.
- For use in temperatures from 4°C to 40°C.
- Maximum load: 4 lb. (1.8 kg).

### ORDERING INFORMATION

Model #	Volts	Amps	Watts	Hz	Overall Dimensions*			Shipping Weight Lb. (kg)	US List Price
					W Inches (cm)	H Inches (cm)	D Inches (cm)		
4631	120	0.4	50	50/60	13.1 (33)	4.2 (11)	10 (25)	25 (11)	\$879.00
4631-1	240	0.2	50	50/60	13.1 (33)	4.2 (11)	10 (25)	25 (11)	\$879.00
4631-1CE	240	0.2	50	50/60	13.1 (33)	4.2 (11)	10 (25)	25 (11)	\$879.00

\*Without platform; Platform Dimensions: 16" x 14" (41 x 36 cm)



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\*see inside front cover for details

# Mixers / Shakers

ROTOMIX™ ORBITAL SHAKER - FIXED SPEED

**Thermolyne**

M48200 & M51300



## OUR VALUE PRICED ROTATOR!

- — Compact and affordable
- — Constant speed, continuous duty motor



## OPERATION

### Type M48200

- Provides a uniform fixed speed rotation platform for latex agglutination diagnostic testing and research mixing procedures.
- Compact 5" x 6" (12 x 15 cm) rubber platform accommodates printed well slides, flasks and small test tube racks.
- Constant-speed, continuous—duty motor is available at a constant 60 rpm or 100 rpm ( $\pm 5$  rpm), and a 0.8" (2 cm) diameter orbital motion.
- Maximum load: 3 lb.(1.4 kg).

### Type M51300

- Large 10" x 12" (32 x 27 cm) platform provides thorough and consistent 200 rpm ( $\pm 5$  rpm) test tube rack agitation of radioimmunoassay specimens. Also mixes blood culture bottles in a 37°C environment.
- Timing indicator with numerical indications at the half-hour and one-hour mark. Allows for precise setting of mixing procedures up to two hours.
- Unit can be used continuously when timing isn't necessary by setting timing indicator in the hold position.
- Maximum load: 10 lb.(4.5 kg).

## PRODUCT SPECIFICATIONS

Type	Mixing Surface	W	Overall Dimensions			Load Capacity	Shipping Weight
	Dimensions Inches (cm)		Inches (cm)	H	D		
M48200	5 (12.7) x 6 (15.2)	6.3 (15.8)	5.3 (13.3)	7.5 (19.0)	3 (1.4)	6.5 (2.9)	
M51300	12.6 (32) x 10.6 (27)	11.3 (6.8)	6.8 (17.1)	13.5 (34.2)	10 (4.5)	17.0 (7.7)	

## ORDERING INFORMATION

Model #	Volts	Electrical Amps	Hertz	Orbit Dia. Inches (mm)	Operating Speed (rpm)	US List Price
M48215	120	0.5	60	0.78 (20)	100 $\pm 5$	\$271.00
M48210-33	240	0.25	50	0.78 (20)	100 $\pm 5$	\$271.00
M48225	120	0.08	60	0.78 (20)	60 $\pm 5$	\$281.00
M48220-33	240	0.04	50	0.78 (20)	60 $\pm 5$	\$281.00
M51335	120	0.5	60	0.78 (20)	200 $\pm 5$	\$476.00
M51330-33	240	0.18	50	0.78 (20)	200 $\pm 5$	\$518.00

-33 Models CE marked

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\*see inside front cover for details

# Mixers / Shakers

## ORBITAL SHAKERS — VARIABLE SPEED

**Thermolyne**

Type M50800 & Type M71700



### OUR POPULAR VARIABLE SPEED MODELS!

- — All purpose mixers
- — May be used in non-condensing incubator
- — Reliable speed control



### PRODUCT DESCRIPTION

#### Type M50800

- Precise speed settings from 80—200 rpm ideal for diagnostic and critical research testing procedures.
- 8.8" x 8.8" (22 x 22 cm) platform accommodates electrophoresis gels, petri dishes, slides, microtiter plates, reaction trays, culture plates, flasks and test tube racks.
- Timing indicator with a range of 0–15 minutes signals test completion with a soft audible alarm.
- Ambient conditions from 4-56°C.

#### Type M71700

- Controlled, slow speed mixing action can be adjusted from 10–60 rpm  $\pm$ 5 rpm, in a uniform 0.8" (2 cm) diameter orbital motion.
- Precise speed control means you can set and forget it.
- 10" x 12" (32 x 27 cm) platform is autoclavable and can accommodate electrophoretic gel plates, petri dishes, printed well slides, microtiter plates, reaction trays, culture plates, flasks and test tube racks.
- Timing indicator with numerical indications at the half hour and one hour mark allows for precise setting of mixing procedure to up to two hours.
- Continuous mixer performance is achieved by setting the timing indicator in the hold position.
- Ambient conditions from 4-37°C.

### PRODUCT SPECIFICATIONS

Type	Mixing Surface Dimensions Inches (cm)		Overall Dimensions Inches (cm)			Load Capacity Lb. (kg)	Shipping Weight Lb. (kg)
	W	D	W	H	D		
M50800	8.8 (22.2)	8.8 (22.2)	9.6 (24.4)	4.3 (10.7)	10.8 (27.3)	5 (2.2)	12.0 (5.4)
M71700	12.6 (32)	10.6 (27)	11.3 (28.5)	6.8 (17.1)	13.5 (34.2)	5 (2.2)	17.0 (7.7)

### ORDERING INFORMATION

Model #	Volts	Electrical Amps	Hertz	Orbit Dia. Inches (mm)	Operating Speed (rpm)	US List Price
M50825	120	0.1	50/60	0.78 (20)	80-220 $\pm$ 12	\$652.00
M50820-33	240	0.05	50/60	0.78 (20)	80-220 $\pm$ 12	\$672.00
M71735	120	0.1	60	0.78 (20)	10-60 $\pm$ 5	\$748.00
M71730-33	240	0.05	50	0.78 (20)	10-60 $\pm$ 5	\$760.00

-33 Models CE marked

### APPLICATIONS

- Agitation of electrophoretic gels.
- Staining and destaining.
- Blotting membranes.
- Cell culture.

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\*see inside front cover for details

# Mixers / Shakers

## LAB ROTATORS

**Lab-Line**

Model 1314



### THREE PLATFORM SIZE OPTIONS!

- — Economical multi-purpose rotator
- — Holds many sizes and types of glassware
- — Variable speed control
- ★ — 24 Month Warranty



### PRODUCT DESCRIPTION

- Designed to provide long life and dependable service in a variety of applications, particularly microbiology, immunology and clinical usage.
- Designed for use from 4°C to 40°C
- Ideal for general rotation of many types and sizes of glassware including flasks, beakers, vials, petri dishes, titer plates, culture plates and slides.
- Variable speed from 40 to 220 rpm.
- 6" x 6" (15 x 15 cm), 9" x 9" (23 x 23 cm), and 12" x 12" (31 x 31 cm) platforms available, with non-slip surface mats.
- Adjustable speed models have solid state control, a 60 minute timer and accommodate loads up to 10 lb. (4.5 kg).
- Continuous-duty motor provides smooth, quiet rotation through a .75" (1.9 cm) orbit.
- Easy-to-clean white silicone platform mat can be autoclaved.

### PRODUCT SPECIFICATIONS

Type	Platform Dimensions Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
1304	6 (15)	6 (15)	8.6 (22)	4.4 (11)	10.3(26)	14 (16)
1304-1	6 (15)	6 (15)	8.6 (22)	4.4 (11)	10.3 (26)	14 (16)
1304-1CE	6 (15)	6 (15)	8.6 (22)	4.4 (11)	10.3 (26)	14 (16)
1309	9 (23)	9 (23)	10.6 (27)	4.4 (11)	12.4 (31)	16 (7)
1309-1	9 (23)	9 (23)	10.6 (27)	4.4 (11)	12.4 (31)	16 (7)
1309-1CE	9 (23)	9 (23)	10.6 (27)	4.4 (11)	12.4 (31)	16 (7)
1314	12 (30)	12 (30)	12.5 (32)	4.4 (11)	13.6 (35)	17(8)
1314-1	12 (30)	12 (30)	12.5 (32)	4.4 (11)	13.6 (35)	17 (8)
1314-1CE	12 (30)	12 (30)	12.5 (32)	4.4 (11)	13.6 (35)	17 (8)

### ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hz) Amps	Watts	Speed Range (rpm)	US List Price
1304	120	0.4	50	40-220	\$515.00
1304-1	240	0.2	50	40-220	\$572.00
1304-1CE	240	0.2	50	40-220	\$572.00
1309	120	0.4	50	40-220	\$634.00
1309-1	240	0.2	50	40-220	\$692.00
1309-1CE	240	0.2	50	40-220	\$692.00
1314	120	0.4	50	40-220	\$671.00
1314-1	240	0.2	50	40-220	\$733.00
1314-1CE	240	0.2	50	40-220	\$733.00

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\*see inside front cover for details

# Mixers / Shakers

VORTEX MAXI MIX® II

**Thermolyne**

Type M37600



## THE PREFERRED VORTEX MIXER!

- — Variable speed
- — Touch on mode
- — Single tube cup, multiple tube pad

## PRODUCT DESCRIPTION

- Soft foam rubber pad permits vortex mixing of 1–4 test tubes simultaneously. Excellent for mixing contents of small flasks with closed tops.
- Heavy duty cast metal base and suction cup feet provide greater stability to assure no movement or “walking” during mixing.
- Maxi Mix II comes complete with two mixing surfaces: a single-cup tube holder for mixing single tubes, and 3.5” (8.9 cm) diameter foam pad for mixing flasks or multiple tubes simultaneously.

## OPERATION

- Variable speed control allows adjustment of mixing action from 100 to 3000 rpm.
- Can be operated in continuous mode when mixing a quantity of tubes or flasks in sequence; intermittent mode is activated by touching the foam rubber pad or cup attachment with test tube.

## APPLICATIONS

- Mixing media in test tubes.
- Mixing cytogenetic suspensions in centrifuge tubes.
- Enzymatic and RIA assays.
- Vortexing cell suspensions.
- Vortexing drug extractions.
- Atomic absorption sample preparation.
- Nelson's assay for reducing sugars.

## PRODUCT SPECIFICATIONS

Type	Mixing Surface Dimensions Inches (cm)	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
		W	H	D	
M37600	3.5 (8.8)	4.5 (11.4)	6.0 (15.2)	7.0 (17.7)	8.0 (3.6)

## ORDERING INFORMATION

Model #	Electrical (50/60Hz)			Hertz	Operating Speed (rpm)	US List Price
	Volts	Amps	Watts			
M37615	120	0.52	62	50/60	100-3000	\$309.00
M37610-26	240	0.26	62	50	100-3000	\$309.00

-33 Models CE marked.

Single Cup Tube Holder



3.5" Diameter Foam Pad



# Mixers / Shakers

VORTEX MAXI MIX® I & PLUS

**Thermolyne**

M16700 & M63200



## OUR BEST VALUE VORTEX MIXER!

- — Excellent for mixing single tubes, multiple tubes and small flasks
- — Ensures fast, uniform mixing
- — Compact design



## PRODUCT DESCRIPTION

### Type M63200 Maxi Mix Plus

- Designed with a heavy cast aluminum body to provide optimum bench-top stability.
- The mixer has two modes of operation: Continuous operation when you need to mix a quantity of tubes in sequence; intermittent operation is activated by touching the cup attachment with a test tube.
- Equipped with a single tube mixing cup for single tube mixing and a soft foam pad and mixing platform for mixing 1 - 4 tubes simultaneously.

### Type M16700 Maxi Mix I

- The soft foam rubber pad permits vortex mixing of 1 - 4 test tubes simultaneously, depending on tube diameter. Excellent for mixing the contents of small flasks with closed tops.
- Convenient top-mounted push button on/off switch can be activated with either a finger or test tube.
- Vary vortex mixing by simply changing the pressure of the tube or flask against the foam pad.
- Clean, white durable plastic case is both acid and alkaline resistant.
- Special rubber feet prevent mixer from moving during operation.
- Supplied complete with one extra foam top (PT167X2), power cord, and plug.

**48 Hour or Sooner  
Express Shipping  
Guaranteed!\***

\*see inside front cover for details

## PRODUCT SPECIFICATIONS

Type	Mixing Surface Dimensions	W	Overall Dimensions		Shipping Weight
	Inches (cm)		Inches (cm)	D	
M16700	4.0 (10.1)	5.5(13.9)	4.2 (10.6)	5.5 (13.9)	3.5 (1.5)
M63200	1.0 (2.5)	8.0 (20.3)	6.3 (15.8)	5.0 (12.7)	8.0 (3.6)

## ORDERING INFORMATION

Model #	Volts	Electrical Amps	Hertz	Operating Speed (rpm)	US List Price
M16715	120	0.5	50/60	3000	\$237.00
M63215	120	0.33	50/60	3200	\$263.00
M63210-33	240	0.16	50	3200	\$314.00

-33 Models CE marked.

## APPLICATIONS

- Enzymatic and RIA assays.
- General test tube mixing.
- Biochemical assays.
- Vortexing cell suspensions.
- Mixing tissue samples.
- Viral dilutions preparations
- Precipitated Assays.



# Mixers/Shakers

MISTRAL SUPER MIXERS®

Lab-Line

Model 1190



## SMALL FOOTPRINT!

- — Solid state speed control
- — Use with all shapes of test tubes, beakers, flasks and other containers
- — Operating speed up to 3000 rpm
- ★ — 24 Month Warranty



## PRODUCT DESCRIPTION

- Ideal for mixing small volumes of liquids, preparing liquid emulsions, dissolving solids and mixing liquids of different densities.
- Can be used to perform enzymatic and RIA assays or biochemical assays, to vortex cell suspensions, mix tissue samples, and for general test tube mixing.
- Compact design conserves valuable bench top space.
- Neoprene mixing head can accommodate two or more tubes simultaneously, even square or odd shaped tubes and flasks.
- Smooth, stepless control from gentle to vigorous mixing action.
- Chemically-resistant, easy-to-clean body construction.
- Four non-skid rubber feet contribute to stability.
- Model 1190 has a pressure-activated mixing head (can also be set for continuous action).
- Model 1195 has an economically priced constant speed mixer with on/off motor switch.

## ORDERING INFORMATION

Model #	Electrical			Dimensions			Shipping Weight Lb. (kg)	US List Price
	Volts	Hz	Watts	W	H	D		
1190	120	60	96	6.25 (16)	4 (10)	5.1 (13)	9 (4)	\$328.00
1190-1	240	50	96	6.25 (16)	4 (10)	5.1 (13)	9 (4)	\$359.00
1190-1CE	240	50	96	6.25 (16)	4 (10)	5.1 (13)	9 (4)	\$359.00
1195	120	60	96	6.25 (16)	4 (10)	5.1 (13)	9 (4)	\$239.00
1195-1	240	50	96	6.25 (16)	4 (10)	5.1 (13)	9 (4)	\$260.00
1195-1CE	240	50	96	6.25 (16)	4 (10)	5.1 (13)	9 (4)	\$260.00

Model 1195



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# Mixers / Shakers

VORTEX MAXI MIX® III

**Thermolyne**

Type M65800 shown with PT500X6A



## A REAL WORKHORSE THAT LOOKS GOOD TOO!

- — Versatility Plus with four interchangeable accessories
- — Continuous, trouble-free shaking of loads up to 5 lb. (2.2 kg)

## PRODUCT SPECIFICATIONS



Type	Mixing Surface Dimensions Inches (cm)			Overall Dimensions Inches (cm)		Shipping Weight Lb. (kg)
	D	W	W	H	D	
M65800	5.5 (13.9)	6.3 (15.8)	6.5 (16.5)	5.1(13.0)	8.5 (21.5)	17.0 (7.7)

*Orbital Diameter .156" (4 mm)*

## PRODUCT DESCRIPTION

- The Maxi Mix III combines the strength of a heavy cast aluminum base with proven counterbalance system. Spring dampened feet eliminate creeping/walking of unit during large volume mixing.
- Supplied complete with one soft foam top (PT500X6A), a three-wire cord, and plug.

## OPERATION

- Four mixing and shaking accessories perform the function of four separate apparatus, saving valuable bench space in crowded labs and clinics.
- Precise matching of an electronic speed control to a high torque DC type motor provides versatile speed selection ranging from 100 to 2200 rpm.
- Lighted main power switch indicates mixer is operating.

## ORDERING INFORMATION

Model #	Volts	Electrical Amps	Watts	Operating Speed (rpm)	US List Price
M65825	120	0.4	108	100-2200	\$836.00
M65820-33	240	0.2	108	100-2200	\$899.00

-33 Models CE marked.

## ACCESSORIES

Model #	Description	Overall Dimensions Inches (cm)		US List Price
		W	D	
PT500X6A	Soft foam rubber top	5.5 (13.9)	6.3 (15.8)	\$56.00
PT500X7A	Utility tray	15.8 (40.1)	7.8 (19.8)	\$113.00
PT500X8A	Flask holder for four 250 ml flasks	—	—	\$188.00
PT500X9A	Universal holder	12 (30.5)	5.5 (13.9)	\$279.00

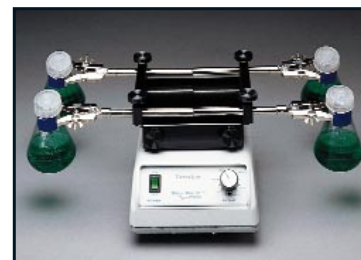
PT500X9A



PT500X7A



PT500X8A



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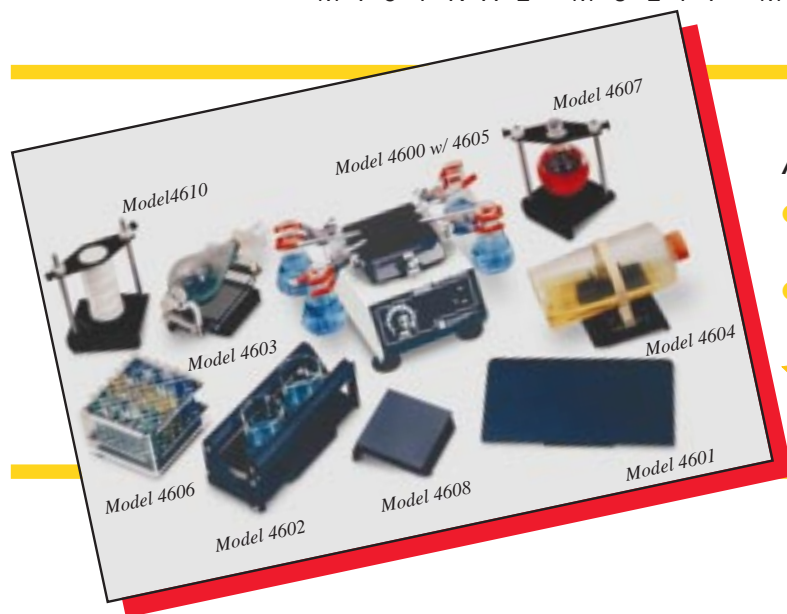


\*see inside front cover for details

# Mixers / Shakers

MISTRAL MULTI-MIXERS®

Lab-Line



## A MULTI-PURPOSE VORTEX MIXER!

- — Compact size conserves valuable bench top space
- — Speed is adjustable from 50 to 2400 rpm with 0.12" circular motion
- ★ — 24 Month Warranty



## PRODUCT DESCRIPTION

- Rugged steel body construction with powder coated finish.
- Mixer attachments are constructed of corrosion-resistant anodized aluminum and can be changed in seconds.

## OPERATION

- Eleven specialized, interchangeable attachments allow the versatile Mistral Multi-Mixer to perform a wide variety of mixing tasks.
- Counterbalanced drive mechanism with flexible suspension—mounted on rubber feet to increase stability.
- Heavy-duty DC motor.

## ORDERING INFORMATION

Model #	Volts	Hz	Watts	W	Dimensions Inches (cm)			Shipping Weight Lb. (kg)	US List Price
					H	D			
4600	120	50/60	120	8.1 (20.6)	7 (17.8)	10.5 (26.7)	22 (10)	\$718.00	
4600-1	240	50/60	120	8.1 (20.6)	7 (17.8)	10.5 (26.7)	22 (10)	\$775.00	
4600-1CE	240	50/60	120	8.1 (20.6)	7 (17.8)	10.5 (26.7)	22 (10)	\$775.00	

## ACCESSORIES

Model #		US List Price
4601	Utility Tray, 6.5" L x 12" W (16.5 x 30.5 cm) with rubber non-slip mat.	\$122.00
4602	Universal Holder Attachment for flask, beakers and bottles up to 500 ml capacity.	\$291.00
4603	Separatory Funnel Attachment for 1 funnel up to 500 ml capacity.	\$208.00
4604	Adjustable Bottle Holder Attachment, horizontally holds bottles up to 500 ml capacity.	\$208.00
4605	Four-Place Holder Attachment, tri-grip clamps hold round bottom flasks or bottles up to 250 ml capacity.	\$213.00
4606	Test Tube Holder Attachment holds 36, 13 ml test tubes.	\$168.00
4607	Round bottom Flask Holder Attachment, vertically holds 1 flask or bottle up to 500 ml capacity.	\$168.00
4608	Rubber Pad Attachment for hand-held test tubes 4.6" x 5.5 (11.7 x 14 cm)	\$52.00
4609	Holder Attachment holds Model 4610 Sieve Set.	\$234.00
4609-5	Holder Attachment holds Model 4610-5 Sieve Set.	\$244.00
4610	Sieve Set, 2" (5 cm) diameter, 4 stackable holders, #25, 35, 45, 60, 80, 120, 170 and 230 mesh screens.	\$317.00
4610-5	Sieve Set, 3" (7.6 cm) diameter, 4 stackable holders, #18, 35 and 120 mesh screens.	\$338.00
4611	Microtube platform holds 64, 0.5 ml and 81, 1.5 ml microtubes.	\$92.00
4612	Replacement Foam Pad for 4611 platform.	\$42.00

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*

\*see inside front cover for details

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Barnstead|Thermolyne

800-553-0039 or 319-556-2241

# Mixers/Shakers

MULTI-WRIST®

Lab-Line

Model 3589



## WHEN YOU NEED MAXIMUM MIXING RESULTS!

- — Gentle to vigorous agitation mimulates hand-mixing
- — Solid state speed control
- — Mechanical timer
- ★ — 24 Month Warranty



## PRODUCT DESCRIPTION

- Solid state speed control from 30 to 750 rpm.
- Circuit breaker mounted on front panel provides electronic protection.
- Mechanical timer can be set for continuous operation or in one minute increments up to an hour.
- Permanently sealed ball bearing drive never needs lubrication.
- Heavy cast iron base in powder coated steel housing eliminates creeping under all but the most extreme conditions.
- Heavy duty motor moves sidearms through 4° arc.
- Aluminum side arms (ordered separately) are held in place with set screws and accommodate vessels up to 50 mm in diameter.
- Operates in temperatures from 4°C to 40°C.
- Model 3589 is CSA certified.

## ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hz)		Dimensions Inches (cm)			Shipping Weight Lb. (kg)	US List Price
		Amps	Watts	W	H	D		
3589	120	0.6	65	11 (28)	10 (25)	15(38)	65 (29)	\$1378.00
3589-1	240	0.3	65	11 (28)	10 (25)	15(38)	65 (29)	\$1477.00
3589-1CE	240	0.3	65	11 (28)	10 (25)	15(38)	65 (29)	\$1477.00

## ACCESSORIES

Model #	Description	US List Price
3587-4	Set of 2—4 Position Side Arms; 8 Clamps Included Each Arm 9.75" (24.8 cm) long.	\$291.00
3589-5	Utility Tray	\$286.00
3587-8	Set of 2—4 Position Side Arms; 8 Clamps Included Each Arm 9.75" (24.8 cm) long.	\$504.00
3587-10	Alumaloy Tri-Grip Clamps (2/pkg.)	\$58.00

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\*see inside front cover for details

# Mixers / Shakers

VARIABLE SPEED EXTRACTION

**Lab-Line**

Model 6000



## OUR EXTRACTIONS SHAKER!

- — Continuous motion from 90° vertical to slightly beyond horizontal
- — Vessels are designed to vent automatically during mixing—prevents dangerous pressure build-up
- ★ — 24 Month Warranty

## PRODUCT DESCRIPTION

- Brushed stainless steel exterior construction for spill protection.
- Compact design fits under a ventilation hood.
- Additional accessory platforms are available to accommodate different solution volumes and vessels sizes.

## OPERATION

- Controlled, complete mixing of up to four specially designed extraction vessels.
- Variable rate from gentle to vigorous (1 to 30 cycles per minute).
- “Jog position” on power switch allows easy emptying of vessels.
- Built-in timer can be set for up to 30 minutes.
- Side-mounted controls allow speed adjustments while unit is running.

## ORDERING INFORMATION

Model #	Volts	Amps	Hz	Watts	W	Dimensions* Inches (cm)		Shipping Weight Lb. (kg)	US List Price
						H	L		
6000	120	0.5	60	60	19.5 (50)	23 (58)	14.1 (36)	60 (27)	\$2174.00
6000-1	240	0.3	50	60	19.5 (50)	23 (58)	14.1 (36)	60 (27)	\$2174.00

*Glassware and platforms sold separately*

*\*Height measured without extraction vessels.*

## ACCESSORIES

Model #	Capacity Vessel	Capacity Solution	Dimensions Inches (cm) Length x Dia.		Shipping Weight Lb. (kg)	US List Price
			L	D		
<b>Extraction Vessels</b>						
6099-1	1 /	500 ml	20.5 (51)	2.1 (6)	3 (1)	\$322.00
6099-2	2 /	1000 ml	21.25 (54)	3.9 (10)	4 (2)	\$374.00

### Accessory Platforms

Model #	Capacity*	Dimensions Inches (cm)			Shipping Weight Lb. (kg)	US List Price
		W	H	D		
6099-10	Four 1 /Ext.Vessels	18 (46)	3 (8)	6 (15)	6 (3)	\$133.00
6099-11	Four 2 /Ext.Vessels	18 (46)	4 (10)	6 (15)	7 (3)	\$133.00

*\*Platforms include clamps for vessels. Vessels sold separately.*

**48 Hour or Sooner  
Express Shipping  
Guaranteed!\***



*\*see inside front cover for details*