

# SELECTION GUIDE

## Stirrers



**EXPLOSION PROOF!**



**CELLGRO—PRECISION STIRRING FOR UP TO FIVE VESSELS!**



**MULTI-MAGNESTIR—CONTINUOUS STIRRING OF MULTIPLE VESSELS!**



**MIRAK—MOST PRECISE STIRRING CONTROL!**

### EXPLOSION PROOF STIRRER

	Product Description	Top Plate Material	Stirring Surface Size Inches (cm)	Number of Stirring Positions	Page
<b>EXPLOSION PROOF!</b>	SAFE-T S10	Ceramic	10 (25.4) x 10 (25.4)	1	287

### ANALOG STIRRERS

<b>BEST SELLING DESIGN!</b>	Cimarec	Ceramic	4 (10.1) x 4 (10.1) 7 (17.7) x 7 (17.7) 12 (30.4) x 12 (30.4)	1	289
<b>GREAT FULL RANGE STIRRING!</b>	Nuova	Porcelain	7 (17.7) x 7 (17.7)	1	290
<b>ILLUMINATED TOP FOR OBSERVING TITRATION ENDPOINTS!</b>	Stir Light	Acrylic	7 (17.7) x 7 (17.7)		292
<b>ECONOMICAL STUDENT STIRRER!</b>	Student	Aluminum	4 (10.1) diameter	1	293
<b>POWERFUL LARGE VOLUME STIRRING!</b>	Maxi Stirrer	Stainless steel	14 (35.5) x 14 (35.5)	1	294
<b>MOST PRECISE STIRRING CONTROL!</b>	Mirak	Ceramic	7 (17.7) x 7 (17.7) 12 (30.4) x 12 (30.4)	1, 4	288
<b>ECONOMICAL DESIGN!</b>	Mistral Magne stirrers	Aluminum	4 (10) x 4 (10) 5.4 (14) x 3.4 (9) 8 (20) x 7 (18)	1	298
<b>LARGEST VOLUME STIRRER!</b>	MAXI-STIR	Stainless steel	18 (46) x 18 (46)	1	296

### CELLGRO STIRRER

<b>PRECISION STIRRING FOR UP TO FIVE VESSELS!</b>	CELLGRO	Acrylic	15.2 (38.7) x 15.2 (38.7)	5	291
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### DIGITAL STIRRER

<b>MOST PRECISE STIRRING CONTROL!</b>	Mirak	Ceramic	7 (17.7) x 7 (17.7) 12 (30.4) x 12 (30.4)	1, 4	288
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### MULTIPLE POSITION STIRRERS

<b>MULTIPLE STIRRING, INDIVIDUAL CONTROL!</b>	PMC500	Aluminum Ceramic Porcelain	10 (25.4) x 10 (25.4)	5, 9	295
<b>CONTINUOUS STIRRING OF MULTIPLE VESSELS!</b>	MULTI-MAGNESTIR	Aluminum	11 (28) x 10 (25) 18 (46) x 14 (36)	4, 6	297

Porcelain = Porcelain coated stainless steel.

All stirrers will accommodate non-magnetic metal vessels with thin-walled bottoms (< 0.12 in or 3 mm).

# Stirrers

EXPLOSION-PROOF SAFE-T S10

Thermolyne

Type S108500



## EXPLOSION PROOF!

- — Stirs viscous oils
- — UL listed for Class 1, Group C and D hazardous atmospheres
- — Large ceramic top plate

Includes  
FREE  
Stir Bar



## PRODUCT DESCRIPTION

- UL Listed for Class I, Group C and D hazardous atmospheres containing ethyl ether, ethylene, and mixtures such as gasoline, hexane, naphtha, benzene, butane, propane, ethanol, acetone, lacquers, natural gas, or vapors with ignition temperatures above 85°C.
- Safe in hazardous situations where Class I, Group C and D flammable gases or solvent vapors can produce explosive or ignitable mixtures.
- Stirring speeds from 60 to 1200 rpm, with precise, electronic stir control, within  $\pm 3$  rpm.
- Stir oils with a viscosity of 1200 centipoise at 400 rpm (@ 21.5°C).
- Large, ceramic top plate surface 10" x 10" (25.4 x 25.4 cm) allows for maximum sample capacity. Accommodates vessels with a capacity of 6 liters.
- High quality CE-marked unit has been specially designed to meet IEC1010 laboratory standard.
- Sturdy construction allows maximum load of 25 lb. (11.3 kg) on top plate.
- Corrosion-resistant powder coat painted stainless steel case is easily cleaned and maintained.
- Built-in 0.5" (1.3 cm) conduit attachment and 18.0" (45.7 cm) lead wire for UL required electrical hook-up. (Unit must be hardwired; plug not included).

## PRODUCT SPECIFICATIONS

Type	Top Plate Dimensions Inches (cm)		W	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D		W	H	D	
S108500	10 (25.4)	10 (25.4)	11.1 (28.3)	7.9 (20)	12.8 (32.4)	30 (13.6)	

## ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hz) Amps	Watts	Stirring Speed Range (rpm)	US List Price
S108525	120	0.5	60	60 - 1200	\$1924.00
S108520-33	240	0.5	120	60 - 1200	\$1924.00

-33 Models CE marked.

## APPLICATIONS

- Organic reactions: stir flammable solvents (Class I, Group C and D.)
- Quality control: test homogeneity or miscibility of oils, lacquers and polymers.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

# Stirrers

MIRAK® DIGITAL

Thermolyne

Mirak Stirrers



## MOST PRECISE STIRRING CONTROL!

- — Electronic stirring speed control
- — Digital display
- — Four position stirrer available

Includes  
FREE  
Stir bar



## PRODUCT DESCRIPTION

- Powerful motor and strong magnet provide exceptional stirring even with a solution that has a viscosity similar to cooking oil.
- All Mirak units are designed with a solid ceramic top for the most durable, easy-to-clean, corrosion-resistant top plate available.
- Stirring speed accuracy is  $\pm 4$  rpm.
- Reflective bright white color makes sample viewing easy.
- Digital display allows observation of stirring speed.
- Separate power switch turns unit OFF/ON without disturbing speed settings.
- Ring stand holder accommodates a standard .5" (1.27cm) diameter support rod to aid in securely positioning a thermometer.
- Your last setpoint is stored in memory and will appear on the display when the unit is switched on again.
- 7" x 7" (18 x 18 cm) stirrers accommodate 4 liter flasks and top plate loads of up to 25 lb. (11.4 kg).
- 12" x 12" (30 x 30 cm) single position stirrers accommodate 6 liter flasks and top plate loads of up to 30 lb. (13.6 kg).
- 12" x 12" (30 x 30 cm) four position stirrers accommodate four 1 liter flasks and top plate loads of up to 25 lb. (11.4 kg).

## APPLICATIONS

- Quality control of sample solubility in solution.
- Turbidity testing: maintain solution homogeneity.
- Polymer integrity tests/viscosity.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*

\*see inside front cover for details

## PRODUCT SPECIFICATIONS

Type	# of Stirrers	Top Plate Dimensions Inches (cm)		W	Overall Dimensions Inches (cm)	
		W	D		H	D
S72500	1	7 (18)	7 (18)	8.3 (21)	5.7 (14.6)	12.2 (31.1)
S72800	1	12 (30)	12 (30)	13.5 (34.3)	6.4 (16.4)	16.6 (42.2)
S73100	4	12 (30)	12 (30)	13.5 (34.3)	6.4 (16.4)	16.6 (42.2)

## ORDERING INFORMATION

Model #	Plug	Volts	Electrical (50/60 Hz) Amps	Watts	Stirring Speed Range (rpm)	Shipping Weight Lb. (kg)	US List Price
S72525	Standard 15-Amp	120	0.3	18.8	60-1200	11.2 (6.2)	\$693.00
S72520	Standard 15-AMP	240	0.1	19.4	60-1200	11.2 (6.2)	\$699.00
S72520-26	European	240	0.1	19.4	60-1200	11.2 (6.2)	\$693.00
S72835	Standard 15-Amp	120	0.3	22	60-1200	19.6 (10.0)	\$865.00
S72830	Standard 15-Amp	240	0.2	30	60-1200	19.6 (10.0)	\$873.00
S73130-26	European	240	0.2	30	60-1200	19.6 (10.0)	\$1221.00
S73135	Standard 15-Amp	120	0.3	22	60-1200	19.6 (10.0)	\$1221.00
S73130	Standard 15-Amp	240	0.2	30	60-1200	19.6 (10.0)	\$1233.00
S73130-26	European	240	0.2	30	60-1200	19.6 (10.0)	\$1233.00

# Stirrers

CIMAREC® CERAMIC TOP

Thermolyne

Cimarec Stirrers



### BEST SELLING DESIGN!

- — Durable ceramic top
- — Gentle or vigorous stirring
- — Integral ring-stand holder

Includes  
FREE  
Stir bar



## PRODUCT DESCRIPTION

- Solid ceramic top plate is easily cleaned, resistant to acid and alkali.
- Reflective bright white color enhances sample visibility.
- Top plate sizes to fit any requirement. Choose 4" x 4", 7" x 7" or 12" x 12" (10.1 x 10.1 cm, 17.7 x 17.7 cm, or 30.4 x 30.4 cm) stirring surfaces.
- Top side drip edge channels spilled liquid away from knobs and provides protection for inside components.
- Rugged cast aluminum bodies provide stability and durability.
- For safe operation, all models include a power indicator light that illuminates when power is applied to the control.
- Quiet stirring at a gentle 100 rpm as well as at a vigorous 1000 rpm operation.
- Strong magnetic coupling ensures that stir bar remains coupled with drive magnet, even in viscous solutions.
- An integral ring-stand holder on all models accommodates support stand and clamp.
- Accommodates sample weights to 25 lb. (11.3 kg) on 7" x 7" and 12" x 12" models, and 10 lb. (4.5 kg) on 4" x 4" models.

## PRODUCT SPECIFICATIONS

Type	Top Plate Dimensions Inches (cm)		W	Overall Dimensions Inches (cm)	
	W	D		H	D
S46400	4 (10.1)	4 (10.1)	4.75 (12)	4.25 (10.7)	5.25 (13.3)
S46700	7 (17.7)	7 (17.7)	7.68 (19.5)	4.5 (11.4)	8.5 (21.5)
S47000	12 (30.4)	12 (30.4)	12.88 (32.7)	5.5 (13.9)	13.8 (34.9)

## ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hz) Amps	Watts	Stirring Speed Range (rpm)	Shipping Weight Lb. (kg)	US List Price
S46415	120	0.23	20	100-1000	5.0 (2.2)	\$198.00
S46410	240	0.11	18	100-1000	5.0 (2.2)	\$198.00
S46410-33	230	0.11	18	100-1000	5.0 (2.2)	\$224.00
S46725	120	0.3	18	100-1000	8.1 (3.7)	\$211.00
S46720	240	0.1	11	100-1000	8.1 (3.7)	\$211.00
S46720-33	230	0.1	12	100-1000	8.1 (3.7)	\$236.00
S47035	120	0.4	31	100-1000	13.8 (6.2)	\$333.00
S47030	120	0.3	43	100-1000	13.8 (6.2)	\$333.00
S47030-33	230	0.25	43	100-1000	13.8 (6.2)	\$352.00

-33 models CE marked, Non-CE -26 Units with European cord set are available.

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Express Shipping  
Guaranteed!\*



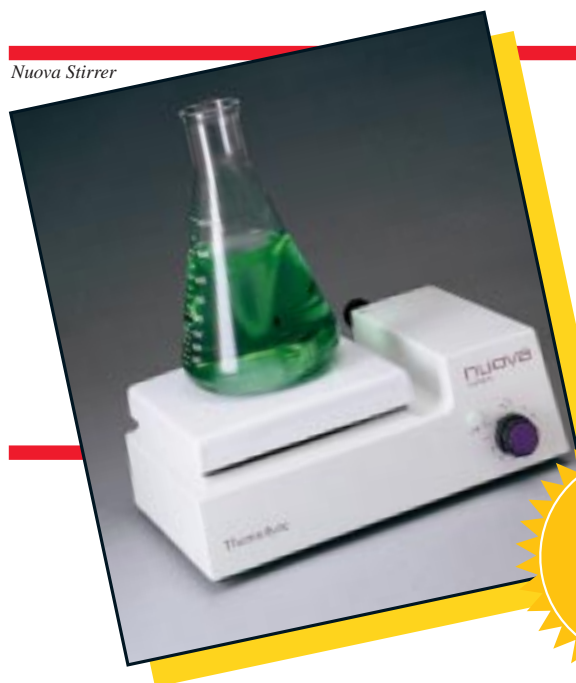
\*see inside front cover for details

# Stirrers

NUOVA™ PORCELAIN TOP

Thermolyne

Nuova Stirrer



## GREAT FULL-RANGE STIRRING!

- — Low profile
- — Excellent low speed stirring
- — Porcelain coated top plate for chemical resistance

Includes  
FREE  
Stir bar



## PRODUCT DESCRIPTION

- Die cast aluminum case provides durability and long life.
- Porcelain-coated stainless steel top gives you excellent corrosion resistance.
- One-inch (2.54 cm) long topside drip edge protects internal components in case of accidental spillage.
- Compact, low profile design fits on the most crowded lab bench.
- All units include an integral ring stand holder to accommodate a 0.5" (1.3 cm) diameter support rod.
- Accommodates up to 20 lb. (9.1 kg) loads
- Excellent slow speed stirring (100 rpm) achieved by turning control knob to speed setting "1."
- Strong magnetic coupling ensures that the magnetic stir bar remains locked with drive magnet, even in viscous solutions.

## APPLICATIONS

- General lab mixing.
- Titrations stirring.
- Preparing culture media.
- Slow speed stirring of culture media.

## PRODUCT SPECIFICATIONS

Type	Top Plate Dimensions Inches (cm)		W	Overall Dimensions Inches (cm)	
	W	D		H	D
S18500	7 (17.7)	7 (17.7)	11.8 (29.9)	4.5 (11.43)	8.6 (21.8)

## ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz) Amps	Watts	Stirring Speed Range (rpm)	Shipping Weight Lb. (kg)	US List Price
S18525*	120	0.3	18	100-1000	7.5 (3.4)	\$267.00
S18520*	240	0.1	11	100-1000	7.5 (3.4)	\$267.00
S18520-26	240	0.1	11	100-1000	7.5 (3.4)	\$267.00

-26 Models supplied with European cord set.

\*UL/CUL listed.

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Guaranteed!\*



\*see inside front cover for details

# Stirrers

## CELLGRO

Thermolyne



### PRECISION STIRRING FOR UP TO FIVE VESSELS!

- — Accommodates five 1000 ml vessels
- — Precise, controlled stirring
- — Components stay cool to prevent heat transfer to media

Includes Five FREE Stir bars

### PRODUCT DESCRIPTION

- Five position magnetic stirrer provides precise, controlled, gentle stirring required for optimum cell growth.
- Two models to choose from: The deluxe S45700 with programmable stirring from 1 to 100 minutes "ON" and 10 to 1000 minutes "OFF" plus, LCD read-out to monitor actual stirring speed and; the economical S45600 with synchronized stirring of five vessels.
- Both models will accommodate five -1000 ml beakers.
- Low-profile design; only 2.9" (7.4 cm) high to maximize valuable incubator space.
- Angled front panel allows easy operation and viewing of control panel.
- Soft Start/Soft Stop speed control permits a gradual change in speed of only 5.5 rpm to minimize cell trauma.
- Auxiliary receptacle at the rear of the stirrer allows you to operate four to six units using just one electrical outlet.
- State-of-the-art blending of electronics and mechanics ensures quiet, trouble-free, continuous operation.
- The -20°C to 60°C (-4°F to 140°F) ambient operating temperature range provides optimum performance, either on benchtop or in an incubator.
- Unique "drip protection" lip on stirrer surface protects internal components in case of accidental spillage.
- Components stay cool to ensure no heat is transferred to vessels or incubator.

### PRODUCT SPECIFICATIONS

Type	Top Plate Dimensions Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
S45600	15.25 (38.7)	15.25 (38.7)	15.25 (38.7)	2.9 (7.4)	17 (43.2)	16 (7.25)
S45700	15.25 (38.7)	15.25 (38.7)	15.25 (38.7)	2.9 (7.4)	17 (43.2)	16.25 (7.4)

### ORDERING INFORMATION

Model #	Electrical (50/60 Hz)			Max Humidity	Operating Amb Temp	Stirring Speed Range (rpm)	Accuracy	US List Price
	Volts	Amps	Watts					
<b>Economy Series</b>								
S45625	120	0.1	4	90%	-20-60°C (-4-140°F)	1-100	±3 rpm	\$915.00
S45620-26	240	0.1	4	90%	-20-60°C (-4-140°F)	1-100	±3 rpm	\$915.00
<b>Deluxe Series</b>								
S45725	120	0.1	4.3	90%	-20-60°C (-4-140°F)	1-100	±1 rpm	\$1304.00
S45720-26	240	0.1	4.3	90%	-20-60°C (-4-140°F)	1-100	±1 rpm	\$1304.00

-26 models supplied with European cord set.

### APPLICATIONS

- Designed for growing anchorage dependent cells on microcarriers.
- Traditional suspension methods.
- Other applications requiring slow, controlled stirring.

48 Hour or Sooner Express Shipping Guaranteed!\*

\*see inside front cover for details

# Stirrers

ALUMINUM TOP AND STIR LIGHT

Thermolyne



## ILLUMINATED TOP FOR OBSERVING TITRATION ENDPOINTS!

- — Stir Light is ideal for spotting titration endpoints
- — Fluorescent light keeps your vessel cool
- — Aluminum top stirrer accommodates 4 /vessels

Includes  
FREE  
Stir Bar

## PRODUCT DESCRIPTION

### Stir light (SL7200)

- Acrylic top plate is illuminated with cool fluorescent bulbs.
- Light and stirring functions can be used independently.
- Rugged cast aluminum body includes an integral ring stand holder.
- Perfect for titration.

### Stirrer (S7200)

- Aluminum top plate remains cool while stirring.
- Rugged cast aluminum body includes an integral ring stand holder.
- 7" x 7" top plate accommodates 4 /flasks.
- Top side drip edge channels spilled liquid away from components.

## APPLICATIONS

- Standard reagent mixing.
- Illuminate hard-to-see endpoints in titrations.
- Stir bacteriological cultures.
- Stir up to four liters of aqueous solutions.

## PRODUCT SPECIFICATIONS

Type	Top Plate Dimensions Inches (cm)		W	Overall Dimensions Inches (cm)	
	W	D		H	D
S7800	7 (17.7)	7 (17.7)	7.68 (19.5)	4.5 (11.4)	8.5 (21.5)
SL7200	7 (17.7)	7 (17.7)	7.68 (19.5)	4.5 (11.4)	8.5 (21.5)

## ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hz) Amps	Watts	Stirring Speed Range (rpm)	Shipping Weight Lb. (kg)	US List Price
S7225	120	0.3	18	100-1000	7.5 (3.4)	\$258.00
S7220	230	0.1	11	100-1000	7.5 (3.4)	\$258.00
SL7225	120	0.6	40	100-1000	8(3.6)	\$258.00
SL7220	230	0.3	40	100-1000	8(3.6)	\$258.00

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Express Shipping  
Guaranteed!\*



\*see inside front cover for details

# Stirrers

## STUDENT

**Thermolyne**



### ECONOMICAL STUDENT STIRRER!

- — Motor is designed for hours of continuous operation
- — Solid stainless steel case is impervious to spills
- — Adjustable stirring speed from 100-1000 rpm

Includes  
**FREE**  
Stir  
Bar

### PRODUCT DESCRIPTION

- Perforated enamel-finished steel case on Type S17400 provides cool operation.
- Strong magnetic coupling keeps stir bar synchronized.
- Stirring motor is designed for continuous hours of operation.
- Type S7800 features separate ON/OFF switch permitting starts and stops without changing the speed setting.
- Type S7800 also features a dovetail bracket for mounting on laboratory racks.

### APPLICATIONS

- General laboratory mixing of aqueous solutions.
- Titration stirring.
- Stirring of solutions when monitoring and/or adjusting solution pH (pH meter stations).
- Electrolysis experiments and potentiometric titrations.

### PRODUCT SPECIFICATIONS

Type	Top Plate Dimensions Inches (cm)	H	Overall Dimensions Inches (cm)	Shipping Weight Lb. (kg)
	Dia.		Dia.	
S7800	4 (10.1)	3 (7.6)	4.5 (11.43)	1.75 (0.79)
S17400	4 (10.1)	3 (7.6)	4 (10.1)	1.75 (0.79)

### ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz) Amps	Watts	Stirring Speed Range (rpm)	US List Price
S7805	120	0.15	18	100-1000	\$197.00
S17415	120	0.15	18	100-1000	\$160.00

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Guaranteed!\*



\*see inside front cover for details

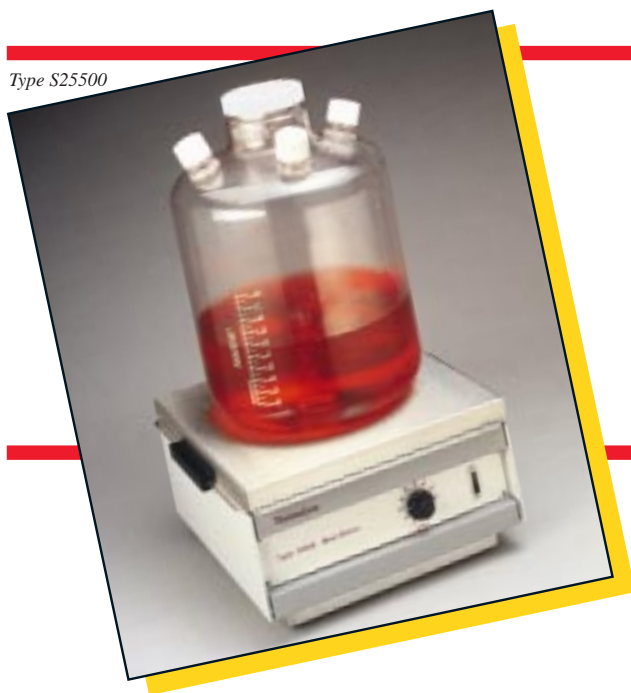


# Stirrers

## MAXI STIRRER

Thermolyne

Type S25500



### POWERFUL LARGE VOLUME STIRRING!

- — Ideal for stirring large volumes
- — 1/8 hp motor provides maximum torque
- — Powerful drive magnet accommodates 6" stir bars

### PRODUCT DESCRIPTION

- 196 square inches (1260 sq. cm) of stainless steel stirring surface accommodates up to 300 lb (136 kg) loads.
- Powerful 1/8 hp permanent split capacitor motor provides maximum torque, even when mixing viscous solutions (> 3,000 centipoise).
- Powerful 7.5" (19.1 cm) drive magnet accommodates 3" to 6" (7.6 to 15.2 cm) stir bars for stirring up to 35 gallons (132 liters) of aqueous solution.
- Optional 4.25" (10.8 cm) long by 1.06" (2.7 cm) diameter Teflon-coated stir bar can be ordered separately. (Part number MGX7.)

### APPLICATIONS

- Stirring viscous gels.
- Stirring large volumes of aqueous solutions.
- Stirring latex mixtures.
- Mixing polymers and starches.

### PRODUCT SPECIFICATIONS

Type	Top Plate Dimensions Inches (cm)		W	Overall Dimensions Inches (cm)	
	W	D		H	D
S25500	14 (35.5)	14 (35.5)	14.75 (37.4)	8 (20.3)	14.75 (37.4)

### ORDERING INFORMATION

Model #	Volts	Electrical Amps	Watts	Hertz	Stirring Speed Range (rpm)	Shipping Weight Lb. (kg)	US List Price
S25535	120	1.4	160	60	60-1050	48 (21.8)	\$1555.00
S25530	240	0.7	160	50/60	60-1050	48 (21.8)	\$1555.00

### ACCESSORIES

Part #	Description	Length Inches (cm)	Diameter Inches (cm)	US List Price
MGX7	Teflon-coated stir magnet	4.25 (10.8)	1.06 (2.7)	\$181.30

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Express Shipping  
Guaranteed!\*

\*see inside front cover for details

# Stirrers

## MULTI-POSITION

PMC

PMC 500P

### MULTIPLE STIRRING; INDIVIDUAL CONTROL!

- — 5 or 9 position models with individual control
- — Aluminum, ceramic and porcelain tops
- — 5 position model can stir five 800 ml beakers; 9 position model can stir nine 400 ml beakers

Includes  
FREE  
Stir bar

### ORDERING INFORMATION

Model #	Volts	Electrical		Stirring Speed Range (rpm)	# of Stirrers	Top Plate Dimensions Inches (cm)		Top Plate Material	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)	US List Price
		50/60 Hz Amps	Watts			W	D		W	H	D		
505A	120	2.2	263	100 - 1200	5	10 (25.4)	10 (25.4)	Aluminum	10.5 (26.7)	6.5 (16.5)	15 (38.1)	32 (14.5)	\$805.00
505P	120	2.2	263	100 - 1200	5	10 (25.4)	10 (25.4)	Porcelain	10.5 (26.7)	6.5 (16.5)	15 (38.1)	32 (14.5)	\$842.00
505C	120	2.2	263	100 - 1200	5	10 (25.4)	10 (25.4)	Ceramic	10.5 (26.7)	6.5 (16.5)	15 (38.1)	32 (14.5)	\$805.00
509A	120	3.9	470	100 - 1200	9	10 (25.4)	10 (25.4)	Aluminum	10.5 (26.7)	6.5 (16.5)	15 (38.1)	38 (17.2)	\$1130.00
509P	120	3.9	470	100 - 1200	9	10 (25.4)	10 (25.4)	Porcelain	10.5 (26.7)	6.5 (16.5)	15 (38.1)	38 (17.2)	\$1178.00
509C	120	3.9	470	100 - 1200	9	10 (25.4)	10 (25.4)	Ceramic	10.5 (26.7)	6.5 (16.5)	15 (38.1)	38 (17.2)	\$1130.00

### PRODUCT DESCRIPTION

- Easy-to-clean ceramic and porcelain-coated stainless steel tops are resistant to acid and alkali.
- Aluminum tops minimize heat transfer to sample from motor operation.
- Multi-sample processing: 5 and 9-position units have individual stir controls.
- Designed to stir aqueous and viscous solutions.
- 5 position model can stir five 800 ml beakers; 9 position model can stir nine 400 ml beakers.
- 10" x 10" top plates have a maximum load of 20 lb. (9.1kg).

### APPLICATIONS

- Multi-sample processing - stir up to nine solutions at once.
- Solubility/miscibility studies.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

# Stirrers

## LARGE VOLUME

Lab-Line

Model 1297



### LARGEST VOLUME STIRRER!

- — Ideal for large volume stirring applications
- — Microprocessor-based speed control
- ★ — 24 Month Warranty

### PRODUCT DESCRIPTION

- Stirring capacities up to 200 liters (53 gallon).
- Speed up to 2400 rpm (maximum speeds vary with fluid viscosity, vessel size and construction and stir bar size).
- LED speed display.
- Digital speed settings.
- Accommodates stir bars from 1.5" to 6" (4 to 15 cm), sold separately.
- Polished stainless steel construction resists corrosion.
- 18" x 18" (46 x 46 cm) top surface has ridged non-slip white rubber mat.
- Model 1297 is remote-controlled by a 10 ft. (3m) cable.

### APPLICATIONS

- Large volume solutions
- Viscous gels
- Latex mixtures
- Polymers
- Starches
- Molasses.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

### PRODUCT SPECIFICATIONS

Model #	W	Overall Dimensions Inches (cm)		Shipping Weight Lb. (kg)
		H	D	
1295	120	1.6	190	45 (20)
1295-1	18 (46)	10.25 (26)	18 (46)	45 (20)
1297	18 (46)	10.25 (26)	18 (46)	50 (23)
	8.4 (21)	Remote 4.4 (11)	5.5 (14)	
1297-1	18 (46)	10.25 (26)	18 (46)	50 (23)
	8.4 (21)	Remote 4.4 (11)	5.5 (14)	

### ORDERING INFORMATION

Model #	Volts	Electrical		US List Price
		50/60 HZ Amps	Watts	
1295	120	1.6	190	\$2673.00
1295-1	240	0.8	190	\$2688.00
1297	120	1.6	190	\$2855.00
1297-1	240	0.8	190	\$2870.00

Model 1295



# Stirrers

## MULTI-POSITION

Lab-Line

Model 1278



### CONTINUOUS STIRRING OF MULTIPLE VESSELS!

- — Simultaneous stirring of 1-6 vessels (up to 1 / flasks)
- — Designed for continuous operation
- — Efficient operation at laboratory ambient temperature, up to 40°C in an incubator
- ★ — 24 Month Warranty

### PRODUCT DESCRIPTION

- Magnetic coupling action provides light to vigorous stirring.
- Solid state speed control.
- Fan cooled motors give synchronous, uniform speeds.
- Sturdy metal housing has Neoprene™ feet for stability and bench top protection.
- Extended safety front also provides convenient storage of extra stirring bars.
- Separate power switch on six position models can be turned on or off without changing the stirring dial.
- Stirring speed range: 100-1200 rpm.

### APPLICATIONS

- Ideal for pharmaceutical, chemical, biological and industrial laboratories where long-term mixing of fluids is required.
- Biochemical analysis.
- Preparation of reagents.
- General stirring applications.

### PRODUCT SPECIFICATIONS

Model #	W	Overall Dimensions Inches (cm)		Shipping Weight Lb. (kg)
		H	D	
1262	11 (28)	6.9 (17)	10 (25)	21 (10)
1262-1	11 (28)	6.9 (17)	10 (25)	21 (10)
1278	18 (46)	7 (18)	14 (36)	36 (16)
1278-1	18 (46)	7 (18)	14 (36)	36 (16)

### ORDERING INFORMATION

Model #	Volts	Electrical Hertz	Watts	US List Price
1262	120	60	200	\$1035.00
1262-1	240	50	200	\$1071.00
1278	120	60	180	\$1300.00
1278-1	240	50	180	\$1336.00

Model 1262



48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



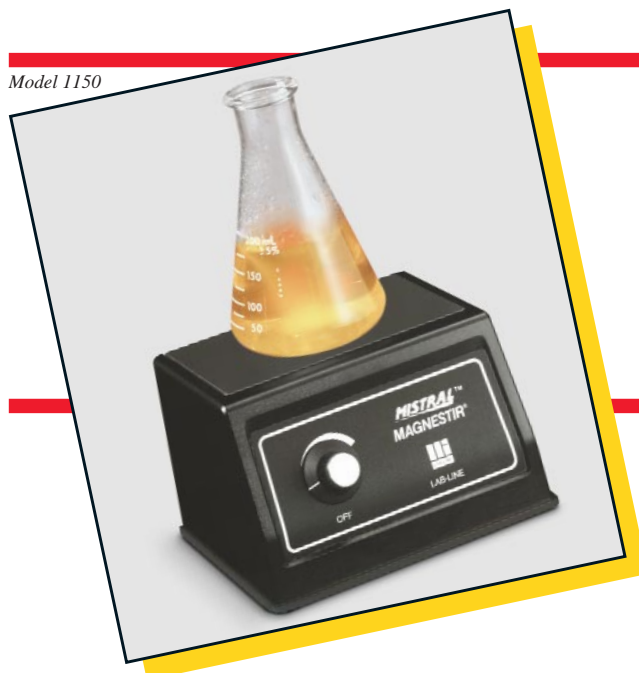
\*see inside front cover for details

# Stirrers

## SINGLE POSITION

Lab-Line

Model 1150



### ECONOMICAL DESIGN!

- — Ideal for stirring in open or closed systems
- — Conserves bench space
- ★ — 24 Month Warranty



### PRODUCT DESCRIPTION

- Variable speed heavy duty motors.
- Compact design conserves valuable bench top space.
- Up to 1 liter capacity
- Designed to protect internal components from spillage.
- Aluminum top minimizes heat transfer to sample from motor operation.

### APPLICATION

- General stirring.

Model 1170



Model 1250



### PRODUCT SPECIFICATIONS

Model #	Top Plate Dimensions Inches (cm)			Overall Dimensions Inches (cm)		Stirring Speed RPM*
	W	D	W	H	D	
1150	5.4 (14)	3.4 (9)	6.25 (16)	4 (10)	5.1 (13)	60-2250
1150-1	5.4 (14)	3.4 (9)	6.25 (16)	4 (10)	5.1 (13)	60-2250
1170	8 (20)	7 (18)	8.25 (21)	4.4 (12)	8.6 (22)	60-2250
1170-1	8 (20)	7 (18)	8.25 (21)	4.4 (12)	8.6 (22)	60-2250
1250	4 (10)	4 (10)	5 (13)	5 (13)	5 (13)	60-2250
1250-1	4 (10)	4 (10)	5 (13)	5 (13)	5 (13)	60-2250

\*Stirring speed will be affected by liquid viscosity, size or stirring bar used, vessel size and the thickness of the bottom of the vessel.

### ORDERING INFORMATION

Model #	Volts	Electrical Hz	Watts	Shipping Weight Lb. (kg)	US List Price
1150	120	60	96	6 (3)	\$208.00
1150-1*	240	50	96	6 (3)	\$224.00
1170	120	50/60	75	11 (5)	\$343.00
1170-1	240	50/60	75	11 (5)	\$359.00
1250	120	50/60	75	6 (3)	\$208.00
1250-1	240	50/60	75	6 (3)	\$224.00

\*CE Marked.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

# Stirrers

PERSONAL MINISTIRRER™

Thermolyne



- — Unique NEW stylish design
- — Economically priced
- — Powerful stirring up to 2000 rpm
- — Standard, digital and portable versions



## ORDERING INFORMATION

Model #	Description	Volts	Overall Dimensions Inches (cm)			Maximum Vessel Capacity (l)	Maximum Vessel Diameter (cm)	Speed Range rpm	Shipping Weight Lb. (kg)	US List Price
			W	H	D					
PS61013	Standard MiniStirrer	120	5.6 (14.3)	2.3 (6.6)	5.6 (14.3)	1	8.5	350-2000	19.03 (8.65)	\$103.00
PS61014	Digital MiniStirrer	120	5.6 (14.3)	2.3 (6.6)	5.6 (14.3)	1	8.5	350-2000	19.47 (8.85)	\$120.00
PS61033	Portable MiniStirrer	120	5.6 (14.3)	2.3 (6.6)	5.6 (14.3)	1	8.5	350-1400	21.06 (9.57)	\$147.00

## PRODUCT DESCRIPTION

### MiniStirrers

- Combine futuristic design with excellent value for money.
- Manufactured from a combination of tough Hytrel® bases and clear, chemically-resistant, Nylon® tops.
- Includes a bright power-on LED.
- Powerful enough to stir 1/ of liquid up to 2000 rpm.
- Digital version displays a precise readout of the actual speed in rpm making it ideal for defined standard operating procedures.
- Upon request your own logo or message may be added beneath the clear Nylon® top where it is both clearly visible yet protected. (Minimum order of 25 required.)

### Portable MiniStir

- Fitted with re-chargeable batteries and runs for up to 16 hours continuously.
- Ideal for use in field situations, fume hoods, glove boxes and incubators.
- All models come complete with instructions, stir bar and line adapter/charger.