

# Hot Plates

DIGITAL AND PROGRAMMABLE 700 SERIES

PMC

## PRODUCT SPECIFICATIONS

Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
W	D	W	H	D	
<b>7" x 7" Digital and Programmable Hot Plate Models</b>					
7 (17.7)	7 (17.7)	8 (20.3)	5 (12.7)	10 (25.4)	10 (4.5)
<b>10" x 10" Digital and Programmable Hot Plate Models</b>					
10 (25.4)	10 (25.4)	10.5 (26.7)	6.5 (16.5)	16 (18.5)	30 (13.6)

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range		Heating Surface Material	US List Price
	Volts	Amps	Watts	°C	°F		
<b>7" x 7" Digital and Programmable Hot Plate Models</b>							
722A	120	7.3	876	38-371	100-700	Aluminum	\$742.00
722P	120	7.3	876	38-371	100-700	Porcelain	\$776.00
732A	120	7.3	876	38-371	100-700	Aluminum	\$870.00
732P	120	7.3	876	38-371	100-700	Porcelain	\$907.00
<b>10" x 10" Digital and Programmable Hot Plate Models</b>							
720A	120	11.4	1378	38-325	104-698	Aluminum	\$1123.00
720P	120	11.4	1378	38-325	100-617	Porcelain	\$1177.00
730A	120	11.4	1378	38-325	104-698	Aluminum	\$1307.00
730P	120	11.4	1378	38-325	100-617	Porcelain	\$1307.00

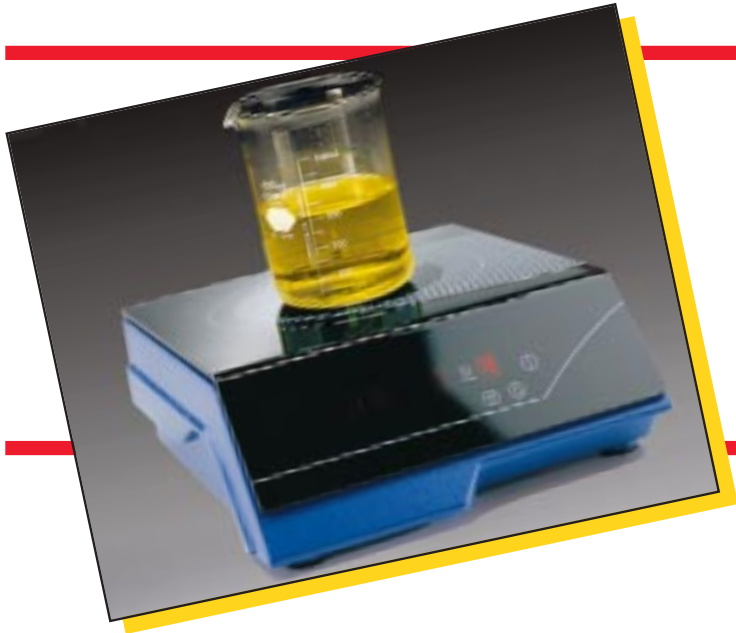
## ACCESSORIES

Model #	Description	US List Price
710-0201	Immersion Probe, 6 in. (15 cm) S.S., Platinum RTD	\$121.00
710-0202	Surface Temperature Probe, Platinum RTD	\$390.00
710-0203	Immersion Probe, 6 in. Chemically Resistant Glass, Platinum RTD	\$171.00
710-0204	Immersion Probe, 10 in. Stainless Steel, Platinum RTD	\$134.00
710-0205	Immersion Probe, 6 in. Solid Teflon, Platinum RTD, Chemical Resistant up to 300°C	\$171.00
710-5001	Probe Readout Calibration Kit (High and Low Temperature Resistors)	\$78.00

# Hot Plates

GLASS CERAMIC TOP

Thermolyne/Schott



## OUR FASTEST HEATING HOT PLATE!

- — Infrared heating elements heat fast
- — Unique glass ceramic top
- — Hermetically sealed case



## PRODUCT DESCRIPTION

- These hot plates are designed for quick and safe heating.
- Infrared heating elements can be adjusted to 9 levels with a touch panel.
- The HP117425 and HP117420-33 models boil 1 L of water in 10 minutes—the HP117525 and HP117520-33 models in 7 minutes!
- The smooth, level, glass-ceramic top plate has excellent chemical resistance and heat transfer properties. It can withstand a 700°C temperature shock!
- A nonflammable Duroplast case is hermetically sealed to protect internal components.

## SAFETY

- An over temperature protection device prevents temperature runaway.
- A residual heat indicator alerts the user to a hot surface.

## PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm) Diameter	Overall Dimensions Inches (cm)			Shipping Weight Lb. (Kg)
		W	H	D	
HP117425	6.5 (16.5)	11.6 (29.5)	4.3 (11)	15.5 (39.5)	7.9 (3.6)
HP117420-33	6.5 (16.5)	11.6 (29.5)	4.3 (11)	15.5 (39.5)	7.9 (3.6)
HP117525	7.9 (20)	11.6 (29.5)	4.3 (11)	15.5 (39.5)	7.9 (3.6)
HP117520-33	7.9 (20)	11.6 (29.5)	4.3 (11)	15.5 (39.5)	7.9 (3.6)

*-33 models are CE marked*

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz) Volts	Maximum Operating Temp		US List Price
		°C	°F	
HP117425	120	600	1112	\$525.00
HP117420-33	230	600	1112	\$525.00
HP117525	120	600	1112	\$585.00
HP117520-33	230	600	1112	\$585.00

*-33 models are CE marked*

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

# Stirring Hot Plates

EXPLOSION-PROOF SAFE-T SHP 9

Thermolyne

Type SP87300



Includes  
FREE  
Stirbar!

## EXPLOSION PROOF!

- — UL listed explosion proof
- — Thermostatic control
- — Over-temperature safety control



## PRODUCT DESCRIPTION

- UL Listed for Class I, Group C and D hazardous atmospheres containing ethylene, and mixtures such as gasoline, naphtha, benzene, butane, propane, ethanol, acetone, lacquers, natural gas, or other vapors with ignition temperatures above 280°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, aluminum top plate surface 9.1" x 9.1" (23.2 cm x 23.2 cm) allows for maximum sample capacity. The cast-aluminum top plate provides efficient heat transfer and excellent temperature uniformity. Uniformity of top plate at 70°C (158°F) is  $\pm 2^\circ\text{C}$  ( $\pm 4^\circ\text{F}$ ).
- Electronic temperature control: temperature range from 38°C to 220°C; 100°F to 428°F.
- Precise electronic heat control maintains temperature stability within  $\pm 2^\circ\text{C}$  ( $\pm 4^\circ\text{F}$ ).
- Automatic over temperature safety switch cuts power to unit if top plate temperature exceeds 280°C.
- High quality CE-marked unit has been specially designed to meet IEC1010 laboratory standard.
- Sturdy construction allows maximum load capacity, 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)
- Optional dial thermometer, with 0°C to 300°C range, fits directly into top plate and measures surface temperature.
- Accommodates a metal vessel.

## PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (Kg)
	W	D	W	H	D	
SP87300	9.1 (23.2)	9.1 (23.2)	10 (25.4)	8.1 (20.8)	12.8 (32.4)	35 (15.9)

## ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz)		Operating Temp Range		Stirring Speed Range (RPM)	US List Price
		Amps	Watts	°C	°F		
SP87325	120	8.9	1070	38-220	100-428	60-1200	\$2075.00
SP87320-33	240	4.5	1070	38-220	100-428	60-1200	\$2075.00

-33 Model CE marked

## ACCESSORIES

Model #	Description	US List Price
MEX126	Dial Thermometer	\$81.65

## APPLICATION

- Heat and stir flammable chemicals or solvents (Class I, Group C & D)
- Heat-treat and uniformly mix coatings
- Silicon wafer etching
- Quality control - test viscosities of oils (petroleum-base) and water/organic content analysis

# Stirring Hot Plates

MIRAK<sup>®</sup> DIGITAL

Thermolyne

Mirak Stirring Hot Plates



## MOST PRECISE TEMPERATURE AND STIRRING CONTROL!

- — Control solution temperature
- — Safely heat metal vessels
- — Stir viscous solutions

Includes  
FREE  
Stirbar!



## PRODUCT DESCRIPTION

- Solid state electronic feedback control constantly monitors and adapts to sudden changes in ambient or sample temperature, preventing boil-overs, ruined samples, and lost time.
- Reliable electronic control maintains the stability of the top plate center or sample temperature. Use Mirak units to heat metal vessels and sandbaths without damaging ceramic tops.
- The motors in the Mirak stirring hot plates produce maximum stirring torque which, when combined with a powerful magnet, provide exceptional magnetic coupling with a stir bar—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.
- Mirak's solid ceramic top remains perfectly flat to ensure maximum heat transfer.
- Reflective bright white color makes sample viewing easy.
- If maintaining a precise solution temperature is important, insert the accessory type K immersion probe into any Mirak stirring hot plate to control sample solution temperature.
- Digital display for quick, simultaneous observation of temperature and stirring speed.
- Separate power switch turns unit off/on without disturbing temperature and speed settings.
- Ring stand holder accommodates a standard 1/2" (1.27cm) diameter support rod to aid in securely positioning the temperature probe.
- Your last set point is stored in memory and will always appear on the display when the unit is switched on again.
- 7" x 7" (18 x 18 cm) stirring hot plates accommodate up to 4 liters in volume and top plate loads of up to 25 lb. (11.4 kg).
- 12" x 12" (30 x 30 cm) stirring hot plates accommodate up to 6 liters in volume and top plate loads of up to 30 lb. (13.6 kg).
- 12" x 12" (30 x 30 cm) four-place stirring hot plates accommodate four 1 liter flasks and top plate loads of up to 30 Lb. (13.6 kg).

## APPLICATION

- Preparation of temperature sensitive media or solutions
- Food analysis - digestions, % solids determination, titrations
- Organic synthesis/research
- Viscosity/solidification point testing



Because the advanced electronic control in the MIRAK is capable of precisely regulating the top plate temperature, metal vessels and sand baths may be safely heated without damaging the ceramic top.



Dual digital displays allow you to observe your temperature and stirring speed simultaneously.



A separate power switch turns the unit off or on without disturbing your temperature and speed settings.

# Stirring Hot Plates

MIRAK<sup>®</sup> DIGITAL

Thermolyne

Temperature may be controlled at the top plate by an internal sensor, or controlled from your sample by simply plugging in the probe accessory.



A clear plastic cover protects dial plate from spills and is removable for easy cleaning.



Ring-stand holder accommodates a standard 1/2" (1.27 cm) diameter support rod.



48 Hour or Sooner  
Express Shipping



\*see inside front cover for details

## ORDERING INFORMATION

Model #	Cord Set	Electrical (50/60 Hertz)			Operating Temp Range		Stirring Speed Range RPM	Shipping Weight Lb. (kg)	US List Price
		Volts	Amps	Watts	°C	°F			
<b>All 7" x 3 7/8" (18 x 18 cm) Top Plate Models—Overall Dimensions 8.3" (21 cm) x 5.7" (14.6 cm) x 12.2" (31.1 cm)</b>									
SP72725	Standard 15-Amp	120	9.5	1119	40–540	104–1004	60–1200	12.3 (6.6)	\$909.00
SP72720	Standard 15-Amp	240	4.7	1119	40–540	104–1004	60–1200	12.3 (6.6)	\$909.00
SP72720-26	European	240	4.7	1119	40–540	104–1004	60–1200	12.3 (6.6)	\$909.00
<b>12" x 12" (30 x 30 cm) Top Plate Single-Place Models—Overall Dimensions 13.5" (34.3 cm) x 6.4" (16.4 cm) x 16.6" (42.2 cm)</b>									
SP73035	20-Amp	120	13.8	1642	40–370	104–698	60–1200	23.2 (11.6)	\$1276.00
SP73035-60	Standard 15-Amp	120	13.8	1642	40–370	104–698	60–1200	23.2 (11.6)	\$1276.00
SP73030	Standard 15-Amp	240	12	3130	40–540	104–1004	60–1200	23.2 (11.6)	\$1276.00
SP73030-26	European	240	12	3130	40–540	104–1004	60–1200	23.2 (11.6)	\$1276.00
SP73038	20-Amp	208	14.1	2926	40–540	104–1004	60–1200	23.2 (11.6)	\$1276.00
<b>12 x 12" (30 x 30 cm) Top Plate Four-Place Models—Overall Dimensions 13.5" (34.3 cm) x 6.4" (16.4 cm) x 16.6" (42.2 cm)</b>									
SP73235	20-Amp	120	15	1720	40–370	104–698	60–1200	25.7 (11.7)	\$1635.00
SP73235-60	Standard 15-Amp	120	15	1720	40–370	104–698	60–1200	25.7 (11.7)	\$1635.00
SP73230	Standard 15-Amp	240	12	3175	40–540	104–1004	60–1200	25.7 (11.7)	\$1635.00
SP73230-26	European	240	12	3175	40–540	104–1004	60–1200	25.7 (11.7)	\$1635.00
SP73238	20-Amp	208	14.5	2972	40–540	104–1004	60–1200	25.7 (11.7)	\$1635.00
SP73238-60	Standard 15-Amp	208	14.5	2972	40–540	104–1004	60–1200	25.7 (11.7)	\$1635.00

\* All models are CSA-approved except SP73035-60 and SP73235-60.

-26 Models supplied with European cord set.1167.00832.00

## ACCESSORIES

Model #	Description	US List Price
TC732X1	General purpose immersion probe with 6" (15.24 cm) long stainless-steel sheath	\$107.95
TC732X2	General purpose immersion probe with 10" (25.40 cm) long stainless-steel sheath	\$107.95
TC727X2	Chemically-resistant immersion probe with 7" (17.78 cm) long teflon sheath (rated for solution temperatures up to 300°C)	\$142.75

NOTE: A 20 amp cord set is required on the CSA-approved models of the 12" x 12" (30 x 30 cm) 120 volt Mirak stirring hot plates (SP73035 and SP73235). This 20 amp cord set can only be plugged into a non-standard 20 amp, 120 volt receptacle.

# Stirring Hot Plates

CIMAREC® CERAMIC TOP

Thermolyne

Cimarec Stirring Hot Plates



## BEST SELLING AND MOST VERSATILE!

- — Powerful heating
- — Gentle or vigorous stirring
- — Exceptional durability

Includes  
FREE  
Stirbar!



## PRODUCT DESCRIPTION

- Solid ceramic top plate is easily cleaned, resistant to acid and alkali, and remains flat at high temperatures to ensure maximum heat transfer.
- Cimarec's reflective bright white color enhances sample visibility.
- Choose 4" x 4", 7" x 7" or 12" x 12" heating surfaces.
- Rugged cast aluminum bodies provide stability and durability.
- Infinite temperature selection is provided by a percentage input controller.
- Strong magnetic coupling ensures that stir bar remains locked with drive magnet, even in viscous solutions.
- Accommodates sample weight to 25 Lb. (11.4 kg) on the 7" x 7" and 12" x 12 models, and 10 Lb. (4.5 kg) on 4" x 4" models.
- Integral ring stand holder accommodates 0.5" (1.3 cm) diameter support rod.
- Not recommended for heating metal vessels or sand baths.

## SAFETY

- Cimarec models include a power indicator light that illuminates when power is applied to the control.

## OPERATION

- Excellent for bringing aqueous solutions to rapid boil. Units reach maximum temperature of 538°C in eight minutes.
- Boil 600 ml of H<sub>2</sub>O in a 1 liter flask in approximately 12-18 minutes.\*
- Quiet stirring at a gentle 100 rpm as well as at a vigorous 1000 rpm operation.

\*Exact time depends on hot plate model.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

## ORDERING INFORMATION

Model #	Cord Set	Electrical (50/60 Hertz) Volts Amps Watts	Operating Temp Range °C °F	Stirring Speed RPM	Shipping Weight Lb. (kg)	US List Price
<b>Cimarec 4" x 4" (10.1 x 10.1 cm) Heating Surface Overall Dimensions 4.75" (12.0 cm) x 4.25" (10.7 cm) x 5.25" (13.3cm)</b>						
SP46615	15 Amp	120 3.3 395	150-538 300-1000	100-1000	5.3 (2.3)	\$305.00
SP46610	15 Amp	240 1.6 393	150-538 300-1000	100-1000	5.3 (2.3)	\$305.00
SP46610-33	European	230 1.6 360	150-538 300-1000	100-1000	5.3 (2.3)	\$328.00
<b>Cimarec 7" x 7" (17.7 x 17.7 cm) Heating Surface Overall Dimensions 7.68" (19.5 cm) x 4.5" (11.4 cm) x 8.5" (21.5 cm)</b>						
SP46925	15 Amp	120 9.3 1118	150-538 300-1000	100-1000	7.8 (3.5)	\$334.00
SP46920	15 Amp	240 4.7 1111	150-538 300-1000	100-1000	7.8 (3.5)	\$334.00
SP46920-33	European	230 4.5 1035	150-538 300-1000	100-1000	7.8 (3.5)	\$356.00
<b>Cimarec 12" x 12" (30.4 x 30.4 cm) Heating Surface Overall Dimensions 12.88" (32.7 cm) x 5.5" (13.9 cm) x 13.8" (34.9 cm)</b>						
SP47235 <sup>1</sup>	20 Amp	120 13.7 1650	120-370 250-700	100-1000	14.5 (6.5)	\$439.00
SP47235-60 <sup>2</sup>	15 Amp	120 13.7 1650	120-370 250-700	100-1000	14.5 (6.5)	\$439.00
SP47230	15 Amp	240 12 3155	150-538 300-1000	100-1000	14.5 (6.5)	\$439.00
SP47230-33	European	230 12.5 2879	150-538 300-1000	100-1000	14.5 (6.5)	\$453.00

Note: -33 models are CE marked. Non-CE-26 units with European cord set are available.

<sup>1</sup> Non-standard 20 amp cord set. CSA marked.

<sup>2</sup> Standard 15 amp cord set. Not CSA marked.

## APPLICATION

- 4" x 4" models are excellent for microscale chemistry.
- General lab heating & stirring.
- Sample drying.
- Media preparation.
- General microbiological applications.

# Stirring Hot Plates

CIMAREC® REMOTE-CONTROLLED CERAMIC TOP

Thermolyne

Cimarec Remote Control  
Stirring Hot Plates



## RUGGED REMOTE CONTROLLED UNIT!

- — Control up to 6 feet away
- — Quick connect remote controls



## PRODUCT SPECIFICATIONS

Model #	Cord Set	Electrical (50/60 Hertz)			Operating Temp Range		Stirring Speed Range (RPM)	US List Price
		Volts	Amps	Watts	°C	°F		
RHP46925	15 Amp	120	9.2	1100	150-538	300-1000	100-1000	\$592.00

## ORDERING INFORMATION

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Control Box Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	W	H	D	
RHP46900	7.0 (17.7)	7.0 (17.7)	7.68 (19.5)	4.5 (11.4)	8.5 (21.5)	6.69 (16.9)	5.0 (12.7)	4.72 (11.9)	7.75 (3.5)

## PRODUCT DESCRIPTION

- Cimarec remote control units offer the same rugged construction as our standard Cimarec models.
- Unique mounting bracket on control box allows controls to be mounted topside or from underneath the box at a 45° or 90° angle.
- Not recommended for heating metal vessels.
- Accommodates up to 25 lb. (1.3 kg) loads.

## OPERATION

- Excellent for bringing aqueous solutions to a rapid boil. Reach maximum temperature of 538°C (1000°F) in eight minutes. Boil 600 ml of H<sub>2</sub>O in a 1 liter flask in approximately 12 minutes.
- Quiet stirring at a gentle 100 rpm, as well as at a vigorous 1000 rpm.
- Strong magnetic coupling ensures that stir bar remains coupled with drive magnet, even in viscous solutions.

## SAFETY

- For safety, all units include an indicator light signaling that power is being applied to the control.

- For fume hood and other applications which require remote control.
- Remote controls can be located up to six feet away from stirring hot plate units. A quick disconnect on the control box power cord allows easy routing through small openings.

## APPLICATION

- General fume hood applications.
- Environmental chambers and glove boxes.

Cimarec Remote Control Hot Plate



# Stirring Hot Plates

NUOVA™ PORCELAIN TOP

Thermolyne

Nuova Stirring Hot Plate



Includes  
FREE  
Stirbar!

## EXCEPTIONAL LOW END TEMPERATURE CONTROL!

- — Corrosion resistant top
- — Excellent full range stirring
- — Low profile



## 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
- Recommended for use with glass vessels only.

## TEMPERATURE CONTROL

- Demand-type thermostatic temperature control senses top plate temperature, providing excellent temperature stability:  $\pm 5.0^{\circ}\text{C}$  ( $9^{\circ}\text{F}$ ) at  $371^{\circ}\text{C}$  ( $700^{\circ}\text{F}$ )
- Embedded heating elements transfer heat evenly to the top plate, supplying uniform temperature across top plate surface.
- Low temperature control as low as  $38^{\circ}\text{C}$  ( $100^{\circ}\text{F}$ ) makes the Nuova hot plate the perfect choice for warming applications.

## STIRRING CONTROL

- 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 aqueous solutions.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

## PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
SP18400	7.0 (17.7)	7.0 (17.7)	11.8 (29.9)	4.5 (11.43)	8.6 (21.8)	9.25 (23.4)

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range		Stirring Speed Range (RPM)	US List Price
	Volts	Amps	Watt	$^{\circ}\text{C}$	$^{\circ}\text{F}$		
SP18425*	120	7.3	858	38-371	100-700	100-1000	\$407.00
SP18420*	240	3.6	851	38-371	100-700	100-1000	\$407.00
SP18420-26	240	3.6	851	38-371	100-700	100-1000	\$407.00

*-26 Models supplied with European cord set.*

*\*UL/CUL Listed.*

## APPLICATION

- General reagent heating.
- Digestions.
- Evaporation of liquid.
- Sample drying.
- Heating TLC plates.
- General lab mixing.
- Titrations stirring.
- Preparing culture media.
- Acid/base titrations requiring constant temperature.
- Slow speed stirring of culture media.



# Stirring Hot Plates

ALUMINUM TOP STIRRING HOT PLATES

Thermolyne

Type SPA1000



Includes  
FREE  
Stirbar!

## POWERFUL STIRRING AND UNIFORM HEATING!

- — Low temperature control
- — Uniform, stable heating
- — 100 to 1000 rpm stirring versatility

## PRODUCT DESCRIPTION

- Thermostatic control senses the temperature of the aluminum top plate to provide excellent temperature stability.
- Maintains temperature stability of  $\pm 3^{\circ}\text{C}$  ( $\pm 5^{\circ}\text{F}$ ).
- Provides reliable control at low temperatures for warming applications and quick heat-up for bringing aqueous solutions to a boil in 15-18 minutes.
- Automatically adjusts to maintain set temperature.
- Embedded heating elements transfer heat evenly to the aluminum top plate.
- Temperature uniformity at max. temperature is  $\pm 8^{\circ}\text{C}$  ( $\pm 14^{\circ}\text{F}$ ).
- Durable top plate stands up well to rugged use.
- Direct drive motor and exceptional magnetic coupling between the drive magnet and stir bar enables you to stir solutions of various viscosities.
- Excellent stirring speed control at any velocity from 100-1000 rpm.
- Top side drip edge channels spilled liquid away from knobs and provides protection for inside components.
- For your safety, all units include a power indicator light and grounded three-wire cord plug.
- An integral ring-stand holder on all models accommodates support stand and clamp.
- Not recommended for use with metal vessels or sand baths.
- Accommodates up to 25 Lb. (1.3 kg) loads.

## APPLICATION

- Warming/mixing applications - gels, pastes, and adhesives
- General heating and stirring of aqueous solutions.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

## PRODUCT SPECIFICATIONS



Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
SPA1000	7 (17.7)	7 (17.7)	9(22.9)	5 (12.7)	9.6 (24.4)	9 (4.1)

## ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz) Amps	Watts	Operating Temp Range		US List Price
				$^{\circ}\text{C}$	$^{\circ}\text{F}$	
SPA1025B	120	7.0	858	40-370	104-700	\$434.00
SPA1020B	230	3.6	851	40-370	104-700	\$434.00

## ACCESSORIES

Model #	Description	Price
SH1070X2	Workstation	\$86.00

Workstation Accessory for 7"x7" (10.1cm x 10.1cm) Cimarec and aluminum top models. Perfect for pH meter stations.

NOTE: Vessel/load capacity on top plate is not increased by workstation surface.



# Stirring Hot Plates

ALUMINUM TOP

**Thermolyne**

Type SP10100



## ECONOMICAL STUDENT UNIT!

- — Excellent low temperature control
- — Ideal for small volume applications



## PRODUCT DESCRIPTION

- Cast aluminum top provides maximum heat transfer and excellent uniformity of top plate temperature.
- A bimetallic control maintains the temperature stability of the top plate to within  $\pm 2.7^{\circ}\text{C}$  ( $5.0^{\circ}\text{F}$ ) over the operating range of the unit.
- Perforated stainless steel case assures cool bench top surface.
- Cycle light indicates when power is being supplied to heating elements, and cycles when set temperature is reached.
- Strong magnetic coupling ensures that stir bar stays coupled with drive magnet.
- Recommended for use with glass vessels only.
- Type SP10100 will accommodate up to 2 Lb. (1 kg) loads.

## APPLICATION

- Standard reagent mixing and heating.
- Preparing culture media.
- Evaporation and distillation procedures.
- Titrations requiring heating and stirring of solution.

## PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
SP10100	3.5 (8.9)	3.5 (8.9)	3.75 (9.5)	4.25 (10.7)	4.25 (10.7)	2.5 (1.1)

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range		Stirring Speed Range (RPM)	US List Price
	Volts	Amps	Watts	$^{\circ}\text{C}$	$^{\circ}\text{F}$		
SP10105B	120	2.5	300	38–260	100–500	100–1000	\$337.00

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

# Stirring Hot Plates

MULTIPLE STIRRING HOT PLATES

PMC

PMC 526C



Includes  
FREE  
Stirbar!

## A WIDE RANGE OF MULTIPLE STIRRING CONFIGURATIONS!

- — Aluminum, ceramic, or porcelain heating surfaces
- — Several stirring options

## PRODUCT DESCRIPTION

- Four and six place units have individual tops and controls. Five and nine place units have a single top plate with individual stir controls.
- Designed to stir aqueous and viscous (e.g. glycerine) solutions.
- Solid, white ceramic tops heat up fast, remain flat at maximum temperatures and are resistant to acid and alkali.
- Porcelain-coated stainless steel top plates heat up more slowly, are designed for low temperature applications and are chemically resistant.
- Units are built from durable cast aluminum cases and painted with chemically resistant paint.
- Five and nine place units hold five 800 ml and nine 400 ml beakers, respectively.
- Weight limits: 20 lb. (9.1 kg) on the 10" x 10" models and 10 lb. (4.5 kg) on the 4" x 4" models.
- Not recommended for use with metal vessels.

## OPERATION

- Aluminum tops heat up quickly and uniformly. Great for low temperature applications.
- Heat control has a power indicator light to help the operator assess the on/off status of the unit at a glance.
- Percentage input control provides infinite temperature settings.

## PRODUCT SPECIFICATIONS

Model #	Heating Surface Inches (cm)		Heating Surface Material	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D		W	H	D	
524A	4 (10.1)	4 (10.1)	Aluminum	10.5 (26.7)	6.5 (16.5)	15 (38.1)	35 (15.9)
524C	4 (10.1)	4 (10.1)	Ceramic	10.5 (26.7)	6.5 (16.5)	15 (38.1)	35 (15.9)
525A	10 (25.4)	10 (25.4)	Aluminum	10.5 (26.7)	6.5 (16.5)	15 (38.1)	33 (15)
525P	10 (25.4)	10 (25.4)	Porcelain	10.5 (26.7)	6.5 (16.5)	15 (38.1)	33 (15)
525C	10 (25.4)	10 (25.4)	Ceramic	10.5 (26.7)	6.5 (16.5)	15 (38.1)	33 (15)
526A	4 (10.1)	4 (10.1)	Aluminum	28 (71.1)	5.6 (14.2)	8 (20.3)	45 (20.4)
526C	4 (10.1)	4 (10.1)	Ceramic	28 (71.1)	5.6 (14.2)	8 (20.3)	45 (20.4)
529A	10 (25.4)	10 (25.4)	Aluminum	10.5 (26.7)	6.5 (16.5)	15 (38.1)	39 (17.7)
529P	10 (25.4)	10 (25.4)	Porcelain	10.5 (26.7)	6.5 (16.5)	15 (38.1)	39 (17.7)
529C	10 (25.4)	10 (25.4)	Ceramic	10.5 (26.7)	6.5 (16.5)	15 (38.1)	39 (17.7)

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range		Stirring Speed RPM	# of Stirrers	US List Price
	Volts	Amps	Watts	°C	°F			
524A	120	10.4	1252	75 - 400	167 - 752	100 - 1200	4*	\$1112.00
524C	120	10.4	1252	100 - 500	212 - 932	100 - 1200	4*	\$1112.00
525A	120	12.7	1527	75 - 400	167 - 752	100 - 1200	5	\$993.00
525P	120	12.7	1527	50 - 350	122 - 662	100 - 1200	5	\$1040.00
525C	120	12.7	1527	100 - 400	212 - 752	100 - 1200	5	\$993.00
526A	120	18.5	2229	75 - 400	167 - 752	100 - 1200	6*	\$2685.00
526C	120	18.5	2229	100 - 500	212 - 932	100 - 1200	6*	\$2703.00
529A	120	13.6	1640	75 - 400	167 - 752	100 - 1200	9	\$1257.00
529P	120	13.6	1640	50 - 350	122 - 662	100 - 1200	9	\$1322.00
529C	120	13.6	1640	100 - 400	212 - 752	100 - 1200	9	\$1257.00

\*Individual Stirrer Tops  
230V models available, add "-2" to above model number

48 Hour or Sooner  
Express Shipping  
Guaranteed!\* 

\*see inside front cover for details

# Stirring Hot Plates

## DIGITAL & PROGRAMMABLE 700 SERIES

PMC

PMC 721P



Includes  
FREE  
Stirbar!

### DIGITAL AND PROGRAMMABLE!

- — Top plate or immersion probe temperature control
- — Multiple stirring models available
- — Program your procedures

## PRODUCT DESCRIPTION

### PMC DATAPLATE® 720 and 730 Series Digital Stirring Hot Plates

- Digital display of all parameters .
- Temperature can be displayed in °C or °F.
- Microprocessor controlled (closed-loop) accurate temperature monitoring. Temperature can be controlled at the top plate surface (RTD sensor built into top plate) or within the sample (RTD immersion probe).
- Stirring controlled (closed loop) by microprocessor. Speed is controlled to ± 20 rpm. Actual (rpm) displayed to the nearest 10 rpm.
- Digital countdown timer and audible alarm.
- Plate "HOT" Indicator flashes red when top plate surface is above 50°C (122°F).
- Temperature ramping - rate can be set from 1°C/hr to 555°C/hr or 1°F/hr to 999°F/hr.
- AUTO-OFF control sets all parameters to zero at the end of a timed period.
- Single keystroke "HEATER OFF" function key.

### Only The PMC DATAPLATE® 730 Series Units Offer:

- Programming - A single program of up to 75 steps (temperature ramps or dwells and stirring speeds) can be stored in memory.
- Program memory battery back-up. Program is not lost by turning unit off.
- "HOLD" key to retain target temperature in memory if a power failure occurs.
- Aluminum top plates heat quickly and uniformly.
- Porcelain-coated stainless steel top plates heat-up more slowly than aluminum tops, but are more chemically resistant than aluminum tops.
- Select either 1, 5, or 9-position stirring models. All stir positions operate at the same speed.
- Five and nine-position models accommodate 5-800 ml and 9-400 ml beakers, respectively.
- An integral ring stand holder on 7" x 7" (17.7 x 17.7 cm) models accommodates a 0.5" (1.3 cm) support rod.
- Gross weight of items placed on top of all 700 Series digital hot plates should not exceed 20 Lb. (9.1 kg).
- Not recommended for use with metal vessels.

## APPLICATION

- Viscosity studies - up to nine samples may be processed at once
- Digestions or incubations - program heating/stirring procedures for "hands-off", reproducible operation
- Solubility studies

# Stirring Hot Plates

## DIGITAL & PROGRAMMABLE 700 SERIES

PMC

### PRODUCT SPECIFICATIONS

Model #	Heating Surface Inches (cm)		Heating Surface Material	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D		W	H	D	
<b>Digital Stirring Hot Plates</b>							
721A	7 (17.7)	7 (17.7)	Aluminum	8 (20.3)	4.5 (11.4)	10 (25.4)	15 (6.8)
721P	7 (17.7)	7 (17.7)	Porcelain	8 (20.3)	4.5 (11.4)	10 (25.4)	15 (6.8)
725C	10 (25.4)	10 (25.4)	Ceramic	10.5 (26.7)	6.5 (16.5)	16 (18.5)	37 (16.8)
725P	10 (25.4)	10 (25.4)	Porcelain	10.5 (26.7)	6.5 (16.5)	16 (18.5)	37 (16.8)
729P	10 (25.4)	10 (25.4)	Porcelain	10.5 (26.7)	6.5 (16.5)	16 (18.5)	44 (20)

### Programmable, Digital Stirring Hot Plates

731A	7 (17.7)	7 (17.7)	Aluminum	8 (20.3)	4.5 (11.4)	10 (25.4)	15 (6.8)
731P	7 (17.7)	7 (17.7)	Porcelain	8 (20.3)	4.5 (11.4)	10 (25.4)	15 (6.8)
735C	10 (25.4)	10 (25.4)	Ceramic	10.5 (26.7)	6.5 (16.5)	16 (18.5)	37 (16.8)
735P	10 (25.4)	10 (25.4)	Porcelain	10.5 (26.7)	6.5 (16.5)	16 (18.5)	37 (16.8)
739P	10 (25.4)	10 (25.4)	Porcelain	10.5 (26.7)	6.5 (16.5)	16 (18.5)	44 (20)

### ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz)		Operating Temp Range		Stirring Speed RPM	# of Stirrers	US List Price
		Amps	Watts	°C	°F			
<b>Digital Stirring Hot Plates</b>								
721A	120	7.3	876	38-371	100-700	100 - 1200	1	\$802.00
721P	120	7.3	876	38-371	100-700	100 - 1200	1	\$842.00
725C	120	13.1	1577	40-370	104-698	100 - 1200	5	\$1832.00
725P	120	13.1	1577	38-325	100-617	100 - 1200	5	\$1844.00
729P	120	14	1690	38-325	100-617	100 - 1200	9	\$2188.00

### Programmable, Digital Stirring Hot Plates

731A	120	7.3	876	38-371	100-700	100 - 1200	1	\$967.00
731P	120	7.3	876	38-371	100-700	100 - 1200	1	\$1012.00
735C	120	14.5	1450	40-370	104-698	100 - 1200	5	\$1963.00
735P	120	14.5	1450	38-325	100-617	100 - 1200	5	\$2063.00
739P	120	15.5	1550	38-325	100-617	100 - 1200	9	\$2223.00

### ACCESSORIES

Model #	Description	US List Price
710-0201	Immersion Probe, 6 in. (15 cm) S.S., Platinum RTD	\$121.00
710-0202	Surface Temperature Probe, Platinum RTD	\$390.00
710-0203	Immersion Probe, 6 in. Chemically Resistant Glass, Platinum RTD	\$171.00
710-0204	Immersion Probe, 10 in. Stainless Steel, Platinum RTD	\$134.00
710-0205	Immersion Probe, 6 in. Solid Teflon, Platinum RTD, Chemical Resistant up to 300°C	\$171.00
710-5001	Probe Readout Calibration Kit (High and Low Temperature Resistors)	\$78.00

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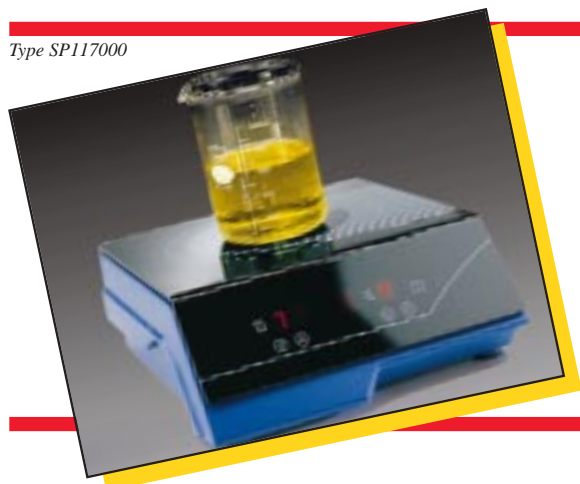
\*see inside front cover for details

# Stirring Hot Plates

GLASS CERAMIC TOP

Thermolyne/Schott

Type SP117000



## UNIQUE GLASS CERAMIC DESIGN!

- — Unique glass ceramic top is durable and easily cleaned
- — Convenient touch panel control
- — Over temperature protection



## PRODUCT DESCRIPTION

- Designed for safely heating and stirring with easy clean-up.
- Stirring motor and heating elements can be adjusted to 9 levels with touch panel.
- The SP117725 and SP11720-33 models have a larger heating area and faster heat-up time than the other models.
- Smooth, level, glass-ceramic top plate has excellent chemical resistance and heat transfer properties. It can withstand a 700°C temperature shock!
- The nonflammable Duroplast case is hermetically sealed to protect internal components.

## SAFETY

- Prevent temperature runaway with an over temperature protection device.
- A residual heat indicator alerts the user to a hot surface.

## PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (Kg)
	W	D	W	H	D	
SP117625	5.7 (14.5)	5.7 (14.5)	11.6 (29.5)	4.3 (11)	15.5 (39.5)	10.8 (4.9)
SP117620-33	5.7 (14.5)	5.7 (14.5)	11.6 (29.5)	4.3 (11)	15.5 (39.5)	10.8 (4.9)
SP117725	7.3 (18.5)	5.7 (14.5)	11.6 (29.5)	4.3 (11)	15.5 (39.5)	10.8 (4.9)
SP117720-33	7.3 (18.5)	5.7 (14.5)	11.6 (29.5)	4.3 (11)	15.5 (39.5)	10.8 (4.9)

## ORDERING INFORMATION

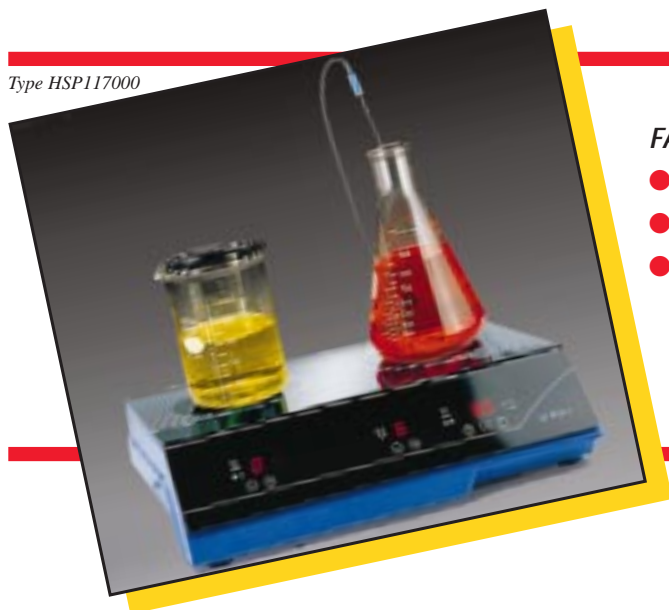
Model #	Electrical (50/60 Hertz) Volts	Maximum Operating Temp °C	Maximum Operating Temp °F	Stirring Speed Range RPM	US List Price
	SP117625	120	500	932	
SP117620-33	230	500	932	100-1000	\$695.00
SP117725	120	500	932	100-1000	\$745.00
SP117720-33	230	500	932	100-1000	\$745.00

# Stirring Hot Plates

GLASS CERAMIC TOP

Thermolyne/Schott

Type HSP117000



## FAST HEATING, SLOW STIRRING, EASY CLEANING!

- — Infrared heater for fast heat-up
- — Stirring hot plate is housed in the same unit
- — Monitor solution temperature with a probe



## PRODUCT DESCRIPTION

- A fast heating infrared hot plate and a stirring hot plate (foil elements) combined under an easily cleaned glass ceramic top plate! Pre-heat things on the high powered heating area, then change to the stirring hot plate area and slowly stir until the reaction is complete.
- HSP117935 and HSP117930-33 feature an immersion probe to monitor solution temperature. The probe can be used from 95-390°F (35-199°C) with  $\pm 5^\circ\text{C}$  stability.
- Stirring speed and temperature can be adjusted with a convenient touch panel.
- Smooth, level, glass-ceramic top plate has excellent chemical resistance and heat transfer properties. It can withstand a 700°C temperature shock!
- The nonflammable Duroplast case is hermetically sealed to protect internal components.

## SAFETY

- Prevent temperature runaway with an over temperature protection device.
- A residual heat indicator alerts the user to a hot surface.

## PRODUCT SPECIFICATIONS

Type	Infrared Heating Surface Inches (cm) Diameter	Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
		W	H	D	
HSP117835	6.5 (16.5)	17.5 (44.5)	4.3 (11)	15.5 (39.5)	13.7 (6.2)
HSP117830-33	6.5 (16.5)	17.5 (44.5)	4.3 (11)	15.5 (39.5)	13.7 (6.2)
HSP117935	6.5 (16.5)	17.5 (44.5)	4.3 (11)	15.5 (39.5)	13.7 (6.2)
HSP117930-33	6.5 (16.5)	17.5 (44.5)	4.3 (11)	15.5 (39.5)	13.7 (6.2)

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz) Volts	Maximum Operating Temp		Stirring Speed Range RPM	US List Price
		$^\circ\text{C}$	$^\circ\text{F}$		
HSP117835	120	600 and 500	1112 and 932	100-1000	\$970.00
HSP117830-33	230	600 and 500	1112 and 932	100-1000	\$970.00
HSP117935	120	600 and 500	1112 and 932	100-1000	\$1050.00
HSP117930-33	230	600 and 500	1112 and 932	100-1000	\$1050.00

# Stirring Hot Plates

P M C M E G A - M I X

PMC

PMC Mega Mix II



## LARGEST CAPACITY!

- — Heat & stir up to 45 liters
- — Tackle viscous solutions

## PRODUCT DESCRIPTION

- Solid, white ceramic tops heat up fast, remain flat at maximum temperatures and are resistant to acid and alkali. Ceramic top hot plates are perfect for bringing aqueous solutions to a rapid boil.
- Aluminum tops heat-up quickly and uniformly.
- Porcelain-coated stainless steel top plates heat-up more slowly and are designed for low temperature applications. The white porcelain coating enhances sample visibility and is more chemical resistant than aluminum.

### Mega Mix I Stirring Hot Plates

- Heavy duty motor and magnet assembly (u-shaped magnet) accommodates 3" (7.6 cm) stir bars for stirring up to 10 liters of aqueous solutions.
- Stirs low viscosity solutions (<500 centipoise).
- 10" x 10" (25.4 cm x 25.4 cm) top plate surface will support up to 20 Lb. (9.1 kg) loads.
- Not recommended for use with metal vessels.

### Mega Mix II Stirring Hot Plates

- Powerful 1/8 hp motor and 6" (15.2 cm) bar magnet assembly accommodates from 3" to 6" (7.6 cm to 15.2 cm) stir bars for stirring up to 45 liters (12 gallons) of aqueous solution.
- Excellent magnetic coupling even when stirring viscous solutions (up to 3,500 centipoise) at room temperature.
- 18" x 18" (45.7 cm x 45.7 cm) top plate will support up to 110 lb. (50 kg) loads.
- Accommodates stainless steel vessels.

## APPLICATION

- Buffer preparation - heat and stir large volumes (up to 45 liters) of aqueous solutions
- Microbiological media preparation - heat and stir viscous substances (gelatins, syrups, etc.)
- Polymer Research (latex, starches, etc.)

## PRODUCT SPECIFICATIONS

Type	Heating and Stirring Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
<b>Mega-Mix I Stirring Hot Plates</b>						
520	10 (25.4)	10 (25.4)	10.5 (26.7)	7.1 (18.1)	15 (38.1)	27 (12.2)
<b>Mega-Mix II Stirring Hot Plates</b>						
530	18 (45.7)	18 (45.7)	18.4 (46.7)	7.1 (18.1)	18.4 (46.7)	55 (24.9)

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)		Operating Temp Range	Stirring Speed Range RPM	Heating Surface Material	US List Price
	Volts	Amps Watts				
<b>Mega-Mix I Stirring Hot Plates</b>						
522A	120	11.7 1415	75-400	167-752	100-1200	Aluminum \$782.00
522P	120	11.7 1415	50-350	122-662	100-1200	Porcelain \$818.00
522C	120	11.7 1415	100-400	212-752	100-1200	Ceramic \$782.00
<b>Mega-Mix II Stirring Hot Plates</b>						
532C-2*	230	13.7 3320	50-400	302-752	60-250	Ceramic \$2179.00
532C-3	220-240	13.8 3330	50-400	302-752	60-250	Ceramic \$2179.00

\*CE marked



48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details



# Stirring Hot Plates

ALUMINUM TOP

Lab-Line

Model 1179



## VERSATILE ALUMINUM TOPS!

- — Designed for continuous use, to handle fluids of varying viscosities in up to 1 l capacity
- — Pilot light for convenience and safety
- — Multiple stirring option
- ★ — 24 Month Warranty

## PRODUCT DESCRIPTION

- Lab-Line's Pyro-Magnestir® are available in 5 models to accommodate most laboratory applications requiring mixing and temperature control.
- Aluminum tops provide uniform heat transfer to samples.
- Models 1179 and 1266 heat and stir flasks up to 1 l.
- Model 1263 simultaneously stirs and heats up to four 1 l/flasks.
- Model 1268 simultaneously stirs and heats up to six 1 l/flasks.
- Model 1287 provides independent stirring control for up to six 1 l/flasks.

## PRODUCT SPECIFICATIONS



Model #	Platform Dimensions Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
1179	7 (18)	8 (20)	8.25 (21)	5 (13)	8.625 (22)	11 (5)
1179-1	7 (18)	8 (20)	8.25 (21)	5 (13)	8.625 (22)	11 (5)
1263	10 (25)	10 (25)	11 (28)	7.125 (18)	10 (25)	23 (10)
1263-1	10 (25)	10 (25)	11 (28)	7.125 (18)	10 (25)	23 (10)
1266	6 (15)	6 (15)	7.5 (19)	4.75 (12)	6 (15)	7 (3)
1266-1	6 (15)	6 (15)	7.5 (19)	4.75 (12)	6 (15)	7 (3)
1268	12 (30)	18 (46)	18 (46)	7.5 (19)	14 (36)	42 (19)
1268-1	12 (30)	18 (46)	18 (46)	7.5 (19)	14 (36)	42 (19)
1287	12 (30)	18 (46)	18 (46)	7.5 (19)	14 (36)	40 (18)
1287-1	12 (30)	18 (46)	18 (46)	7.5 (19)	14 (36)	40 (18)

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)		Operating Temp Range		Stirring Speed Range RPM	US List Price
	Volts	Watts	°C	°F		
1179	120	575	371	700	60-1650	\$452.00
1179-1	240	575	371	700	60-1650	\$473.00
1263	120	700	320	608	100-1650	\$1336.00
1263-1	240	700	320	608	100-1650	\$1508.00
1266	120	500	382	720	100-1650	\$385.00
1266-1	240	500	382	720	100-1650	\$437.00
1268	120	2200	320	608	100-1200	\$2158.00
1268-1	240	2200	320	608	100-1200	\$2205.00
1287	120	2200	371	700	60-1200	\$2262.00
1287-1	240	2200	371	700	60-1200	\$2278.00

Models 1179 and 1266 are UL listed.  
CE models available.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details