

# SELECTION GUIDE

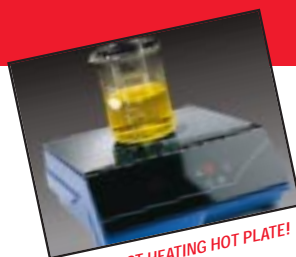
## Hot Plates



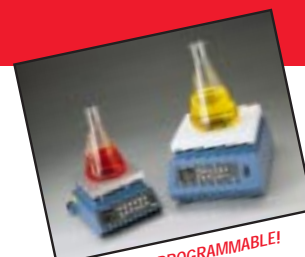
**BEST SELLING AND MOST VERSATILE!**



**SAFE AND ECONOMICAL!**



**OUR FASTEST HEATING HOT PLATE!**



**DIGITAL AND PROGRAMMABLE!**

### ANALOG HOT PLATES

	Product	Top Plate Material	For Use With Metal Vessels	Heating Surface Inches (cm)	Page
<b>BEST SELLING AND MOST VERSATILE!</b>	Cimarec Ceramic Top	Ceramic	No	4 x 4 (10.1 x 10.1) 7 x 7 (17.7 x 17.7) 12 x 12 (30.4 x 30.4)	132
<b>GREAT LOW END TEMPERATURE CONTROL!</b>	Nuova Porcelain Top	Porcelain	No	7 x 7 (17.7 x 17.7)	134
<b>UNIFORM HEATING AT A REASONABLE PRICE!</b>	Type HPA1900	Aluminum	No	6.2 x 6.2 (15.8 x 15.8)	136
<b>SAFE AND ECONOMICAL!</b>	Type 1180	Aluminum	No	8 x 7 (20 x 18)	137
<b>UNIFORM HEATING AND RUGGED CONSTRUCTION!</b>	Type HP88700	Aluminum	No	7 x 7 (17.7 x 17.7)	138
<b>INDUSTRIAL STRENGTH!</b>	Type HP2600	Cast Iron	Yes	9 x 9 (22.9 x 22.9)	139
<b>LARGE SURFACE FOR LARGE LOADS!</b>	Type HP2200	Aluminum	No	12 x 12 (30.4 x 30.4) 12 x 24 (30.4 x 60.9)	140
<b>ECONOMICAL FIXED TEMPERATURE!</b>	Type HP15500	Stainless Steel	No	4.0 (10.1) Dia.	142
<b>ECONOMICAL ADJUSTABLE TEMPERATURE!</b>	Type HP2300	Aluminum	No	3.56 (9.0) dia.	143

### DIGITAL HOT PLATES

<b>MOST PRECISE TEMPERATURE CONTROL!</b>	Mirak Digital	Ceramic	Yes	7 x 7 (17.7 x 17.7) 12 x 12 (30.4 x 30.4)	130-131
<b>DIGITAL AND PROGRAMMABLE!</b>	700 Series	Aluminum Porcelain	No	7 x 7 (17.7 x 17.7) 10 x 10 (25.4 x 25.4)	144-145
<b>OUR FASTEST HEATING HOT PLATE!</b>	Type HP117000	Glass Ceramic	Yes	6.5 (16.5) dia. 7.9 (20) dia.	146

### EXPLOSION PROOF HOT PLATES

<b>EXPLOSION PROOF!</b>	Safe-T HP6	Aluminum	Yes	6 x 6 (15.5 x 15.5)	135
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### REMOTE CONTROL HOT PLATES

<b>REMOTE CONTROLLED FOR GENERAL LAB USE!</b>	Cimarec Remote-Controlled	Ceramic	No	7 x 7 (17.7 x 17.7)	133
<b>UNIFORM HEATING AT A REASONABLE PRICE!</b>	Type RC1900	Cast Iron	No	6.2 x 6.2 (15.8 x 15.8)	136
<b>INDUSTRIAL STRENGTH!</b>	Type RC2600	Cast Iron	Yes	9 x 9 (22.9 x 22.9)	139
<b>REMOTE OPERATION FOR MULTIPLE VESSELS!</b>	Type RC2200	Porcelain	No	12 x 12 (30.4 x 30.4) 12 x 24 (30.4 x 60.9)	141

# SELECTION GUIDE

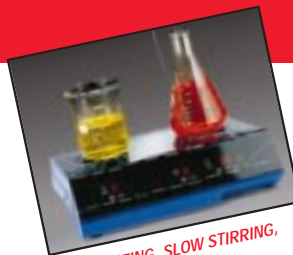
## *Stirring Hot Plates*



**MOST PRECISE TEMPERATURE AND STIRRING CONTROL!**



**A WIDE RANGE OF MULTIPLE STIRRING CONFIGURATIONS!**



**FAST HEATING, SLOW STIRRING, EASY CLEANING!**



**LARGEST CAPACITY!**

### ANALOG STIRRING HOT PLATES

	Product	Top Plate Material	For Use With Metal Vessels	Heating Surface Inches (cm)	Page
<b>BEST SELLING AND MOST VERSATILE!</b>	Cimarec Ceramic Top	Ceramic	No	4 x 4 (10.1 x 10.1) 7 x 7 (17.7 x 17.7) 12 x 12 (30.4 x 30.4)	150
<b>EXCEPTIONAL LOW END TEMPERATURE CONTROL!</b>	Nuova Porcelain Top	Porcelain	No	7 x 7 (18.1 x 18.1)	152
<b>POWERFUL STIRRING AND UNIFORM HEATING!</b>	Type SPA1000	Aluminum	No	7.1 x 7.1 (17.7 x 17.7)	153
<b>ECONOMICAL STUDENT UNIT!</b>	Type SP10100	Aluminum	No	3.5 x 3.5 (8.9 x 8.9)	154
<b>A WIDE RANGE OF MULTIPLE STIRRING CONFIGURATIONS!</b>	Multiple Stirring Hot Plates	Aluminum Ceramic Porcelain	No	4 x 4 (10.1 x 10.1)  10 x 10 (25.4 x 25.4)	155
<b>UNIQUE GLASS CERAMIC DESIGN!</b>	Type SP117000	Glass Ceramic	Yes	5.7 x 5.7 (14.5 x 14.5) 7.3 x 5.7 (18.5 x 14.5)	158
<b>FAST HEATING, SLOW STIRRING, EASY CLEANING!</b>	Type HSP117000	Glass Ceramic	Yes	6.5 (16.5) dia.	159
<b>LARGEST CAPACITY!</b>	Mega Mix I & II	Aluminum Ceramic Porcelain	Yes	18 x 18 (45.7 x 45.7) 10 x 10 (25.4 x 25.4)	160
<b>VERSATILE ALUMINUM TOPS!</b>	1179 1263 1266 1268 1287	Aluminum Aluminum Aluminum Aluminum Aluminum	No	7 x 8 (18 x 20) 10 x 10 (25 x 25) 6 x 6 (15 x 15) 12 x 18 (30 x 46) 12 x 18 (30 x 46)	161

### DIGITAL STIRRING HOT PLATES

<b>MOST PRECISE TEMPERATURE AND STIRRING CONTROL!</b>	Mirak Digital	Ceramic	Yes	7 x 7 (17.7 x 17.7) 12 x 12 (30.4 x 30.4)	148-149
<b>DIGITAL AND PROGRAMMABLE!</b>	700 Series	Aluminum Porcelain Ceramic	No	7 x 7 (17.7 x 17.7) 10 x 10 (25.4 x 25.4)	156-157

### EXPLOSION PROOF STIRRING HOT PLATES

<b>EXPLOSION PROOF!</b>	Safe-T SHP9	Aluminum	Yes	9.1 x 9.1 (23.2 x 23.2)	147
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### REMOTE CONTROL STIRRING HOT PLATES

<b>RUGGED REMOTE CONTROLLED UNIT!</b>	Cimarec Remote-Controlled	Ceramic	No	7 x 7 (17.7 x 17.7)	151
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# Hot Plates

MIRAK® DIGITAL

Thermolyne

Mirak Hot Plates



## **MOST PRECISE TEMPERATURE CONTROL!**

- — Solid state electronic feedback control
- — Control solution temperature with a probe
- — Safely heat metal vessels



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.



Heating control knob allows you to quickly and accurately dial in a precise temperature setting. The MIRAK will not heat until you press the knob to initiate operation.



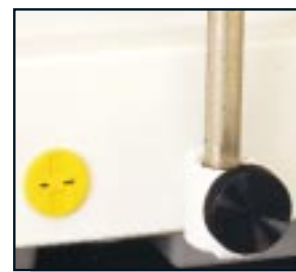
A separate power switch turns the unit off or on without disturbing your temperature setting.



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

# Hot Plates

## MIRAK® DIGITAL

Thermolyne



### ORDERING INFORMATION

7" x 7" (18 x 18 cm) Heating Surface  
Overall Dimensions 8.3" (21.0 cm) x 5.7" (14.6 cm) x 12.2" (31.1 cm)

Model #	Cord Set	Electrical (50/60 Hertz)			Operating Temp Range		Stirring Speed Range	Shipping Weight Lb. (kg)	US List Price
		Volts	Amps	Watts	°C	°F			
HP72625	Standard 15-Amp	120	9.2	1100	40-540	104-1004	N/A	10.4 (5.8)	\$676.00
HP72620	Standard 15-Amp	240	4.6	1100	40-540	104-1004	N/A	10.4 (5.8)	\$676.00
HP72620-26	European	240	4.6	1100	40-540	104-1004	N/A	10.4 (5.8)	\$676.00

*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 hot plate (HP72935). This 20 amp cord set can only be plugged into a non-standard 20 amp, 120 volt receptacle. A 12" x 12" (30 x 30 cm) 120 volt Mirak hot plate (HP72935-60) is available with a standard 15 amp, 120 volt cord set. This model is not CSA-approved.*

12" x 12" (30 x 30 cm) Heating Surface  
Overall Dimensions 12.3" (31.4 cm) x 6.7" (17.1 cm) x 16.6" (42.2 cm)

HP72935	20-Amp	120	13.5	1620	40-370	104-698	N/A	20.1 (10.2)	\$837.00
HP72935-60	Standard 15-Amp	120	13.5	1620	40-370	104-698	N/A	20.1 (10.2)	\$837.00
HP72930	Standard 15-Amp	240	12	3100	40-540	104-1004	N/A	20.1 (10.2)	\$837.00
HP72930-26	European	240	12	3100	40-540	104-1004	N/A	20.1 (10.2)	\$837.00
HP72938	20-Amp	208	13.9	2900	40-540	104-1004	N/A	20.1 (10.2)	\$837.00

All models are CSA-approved except HP72935-60.

### 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 temperature stability of the top plate center or sample. Use Mirak units to heat metal vessels and sandbaths without damaging ceramic tops.
- 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, utilize the accessory type K isolated immersion probe with any Mirak hot plate to control sample solution temperature.
- Digital display for quick and easy observation.
- Separate power switch turns unit off/on without disturbing temperature .
- 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.
- 7x7" (18 x 18 cm) hot plates accommodate flasks 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) hot plates accommodate flasks up to 6 liters in volume and top plate loads of up to 30 lb. (13.6 kg).

### ACCESSORIES

Model #	Descriptions	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

### APPLICATION

- Gel time tests— melt heat sensitive products.
- Viscosity tests.
- Quality control of acid digestions.
- Curing of adhesives—metal fixtures will not damage ceramic top.
- Hybridizations—in situ slides.



\*see inside front cover for details

# Hot Plates

CIMAREC® CERAMIC TOP

Thermolyne

Cimarec Hot Plates



## BEST SELLING AND MOST VERSATILE!

- — Powerful heating
- — Ceramic top
- — Exceptional durability



## ORDERING INFORMATION

Model #	Cord Set	Electrical (50/60 Hertz)			Operating Temp Range		Shipping Weight	US List Price
		Volts	Amps	Watts	°C	°F	Lb. (kg)	
<b>4" x 4" (10.1 x 10.1 cm) Heating Surface</b>								
Overall Dimensions 4.75" (12.0 cm) x 4.25" (10.7 cm) x 5.25" (13.3cm)								
HP46515	15 Amp	120	3.1	375	150-538	300-1000	3.75 (1.7)	\$156.00
HP46510	15 Amp	240	1.6	375	150-538	300-1000	3.75 (1.7)	\$156.00
HP46510-33	European	230	1.5	345	150-538	300-1000	3.75 (1.7)	\$196.00
-33 models are CE marked. Non-CE -26 models with European cord set available.								
<b>7" x 7" (17.7 x 17.7 cm) Heating Surface</b>								
Overall Dimensions 7.7" (19.5 cm) x 4.5" (11.4 cm) x 8.5" (21.5cm)								
HP46825	15 Amp	120	9.2	1100	150-538	300-1000	6.3 (2.8)	\$177.00
HP46820	15 Amp	240	4.6	1100	150-538	300-1000	6.3 (2.8)	\$177.00
HP46820-33	European	230	4.4	1014	150-538	300-1000	6.3 (2.8)	\$206.00
-33 models are CE marked. Non-CE -26 models with European cord set available.								
<b>12" x 12" (30.4 x 30.4 cm) Heating Surface</b>								
Overall Dimensions 12.9" (32.7 cm) x 5.5" (13.9 cm) x 13.8" (34.9 cm)								
HP47135	20 Amp	120	13.5	1620	120-370	250-700	12.8 (5.7)	\$312.00
HP47135-60	15 Amp	120	13.5	1620	120-370	250-700	12.8 (5.7)	\$312.00
HP47130	15 Amp	240	12.0	3100	150-538	300-1000	12.8 (5.7)	\$312.00
HP47130-33	European	230	12.2	2829	150-538	300-1000	12.8 (5.7)	\$327.00
-33 models are CE marked. Non-CE -26 models with European cord set available.								

## 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.
- Integral ring-stand holder accommodates 0.5" (1.3 cm) diameter support rod.
- Rugged cast aluminum bodies provide stability and durability.
- For safe operation, Cimarec models include a power indicator light that illuminates when power is applied to the control.
- 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. (Exact time depends on hot plate model.)
- Infinite temperature selection is provided by a percentage input controller.
- Accommodates sample weights 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.
- Not recommended for heating metal vessels or sand baths.

## APPLICATION

- 4" x 4" models are excellent for microscale chemistry.
- General lab heating.
- Sample drying.



\*see inside front cover for details

# Hot Plates

CIMAREC® REMOTE-CONTROLLED

Thermolyne

Cimarec Remote Control Hot Plate



REMOTE CONTROLLED FOR GENERAL LAB USE!

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



## 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	
RHP46800	7.0 (17.7)	7.0 (17.7)	7.7 (19.5)	4.5 (11.4)	8.5 (21.5)	6.7 (16.9)	5.0 (12.7)	4.7 (11.9)	6.3 (2.8)

## PRODUCT DESCRIPTION

- Cimarec remote control units offer the same rugged construction as our Cimarec models.
- For safety, Cimarec remote-controlled hot plate models include a power indicator light signaling that power is being applied to the control.
- Accommodates a fume hood when applications require remote control.
- Remote controls can be located up to six feet away from hot plate units. A quick disconnect on control box power cord allows easy routing through small openings.
- Unique mounting bracket on control box allows controls to be mounted on topside or underneath a surface at a 45° or 90° angle.
- Excellent for bringing aqueous solutions to a rapid boil. Reach maximum temperature of 538°C (1000°F) in eight minutes. Boiling time: 12 minutes for 600 ml of H<sub>2</sub>O in a 1 liter flask.
- Infinite temperature selection provided by a percentage input controller.
- Temperature stability is ±5°C (9°F) throughout the operating temperature range.
- Not recommended for heating metal vessels.

## APPLICATION

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

## PRODUCT SPECIFICATION

Model #	Cord Set	Volts	Electrical	Watts	Operating Temp Range		US List Price
			(50/60 Hertz) Amps		°C	°F	
RHP46825	15 Amp	120	9.2	1100	150-538	300-1000	\$382.00

Cimarec Remote Control Hot Plate



# Hot Plates

NUOVA™ PORCELAIN TOP

Thermolyne

Nuova Hot Plates



## GREAT LOW-END TEMPERATURE CONTROL!

- — Corrosion resistant heating surface
- — 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.

## OPERATION

- 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 to the top plate, supplying uniformity across the top plate surface of  $\pm 18^{\circ}\text{C}$  ( $32^{\circ}\text{F}$ ) or better at  $100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ ).
- Low temperature control:  $38^{\circ}\text{C}$  ( $100^{\circ}\text{F}$ ) makes the Nuova hot plate the perfect choice for warming applications.

## APPLICATION

- General reagent heating.
- Digestions.
- Evaporation of liquid.
- Sample drying.
- Heating TLC plates.



\*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	
HP18300	7.0 (17.7)	7.0 (17.7)	11.8 (29.9)	4.5 (11.43)	8.6 (21.8)	7.5 (3.4)

## ORDERING INFORMATION

Model #	Volts	Electrical		Operating Temp Range		US List Price
		Amps	Watts	$^{\circ}\text{C}$	$^{\circ}\text{F}$	
HP18325*	120	7	840	38-371	100-700	\$237.00
HP18320*	240	3.5	840	38-371	100-700	\$237.00
HP18320-26	240	3.5	840	38-371	100-700	\$237.00

\* Models are UL/CUL listed.  
-26 model supplied with European cord set.

# Hot Plates

## EXPLOSION-PROOF SAFE-T HP 6

Thermolyne

Explosion Proof Hot Plate



### EXPLOSION PROOF!

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



### PRODUCT DESCRIPTION

- UL listed explosion-proof for Class I, Group C and D atmospheres. Contact Barnstead I Thermolyne customer service department for a complete list of applicable atmospheres, 1-800-553-0039.
- Thermostatic safety is set at 243°C for added secondary protection.
- Thermostatic temperature control senses hot plate temperature and maintains heat stability within  $\pm 5.5^{\circ}\text{C}$  ( $9.9^{\circ}\text{F}$ ).
- Optional dial thermometer, MEX126, to monitor surface temperature.
- Corrosion resistant steel case is easily cleaned and maintained.
- Cast aluminum top plate provides maximum heat transfer for excellent temperature uniformity ( $\pm 6.5^{\circ}\text{C}$  or  $11.7^{\circ}\text{F}$ ).
- Accommodates up to 25 lb (11.3 kg) loads.
- Sealed aluminum housing contains and protects controls from explosive atmospheres.
- Accommodates metal vessels/containers.

### APPLICATION

- Recrystallizations utilizing hazardous organic solvents
- Dry/heat-treat silicon wafers
- Turn your type OV10600 hot plate oven into an explosion-proof oven. Features a 216 cubic-inch (3511.8 cubic cm) aluminum heating chamber; ideal for drying, baking, pretreating, and curing applications.

48 Hour or Sooner  
Express Shipping **RUSH**

\*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	
HP11500	6.13 (15.6)	6.13 (15.6)	7 (17.8)	3.25 (8.3)	7.63 (19.4)	9.5 (4)

### ACCESSORIES

### ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz)		Operating Temp Range		US List Price
		Amps	Watts	$^{\circ}\text{C}$	$^{\circ}\text{F}$	
HP11515B	120	5	600	38-220	100-428	\$697.00

### ACCESSORIES

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

Optional dial thermometer used to monitor top plate temperature on explosion-proof hot plate. 1.0" (2.5 cm) dia. face, .250" (.635 cm) diameter stem x 2.5" (6.4 cm) length. 0-300°C scale range.

Unit includes 1/2-inch (1.3 cm) conduit and 18-inch (45.7 cm) lead wire for electrical hook-up as per UL requirements.



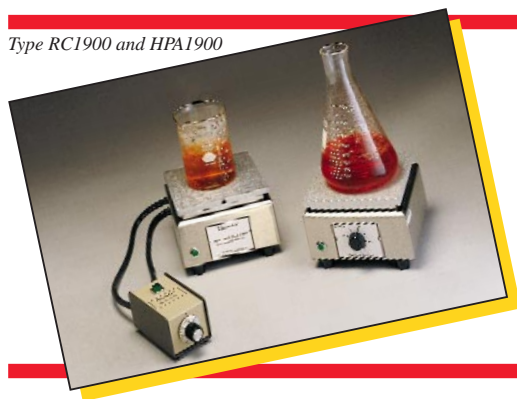


# Hot Plates

ALUMINUM AND CAST IRON TOPS

Thermolyne

Type RC1900 and HPA1900



## UNIFORM HEATING AT A REASONABLE PRICE!

- — Aluminum top for uniform temperature control
- — Cast iron top remote control for caustic reagent fume hood use

## PRODUCT DESCRIPTION

Standard HPA1900 models offer:

- Thermostatic temperature control senses top plate temperature to provide excellent stability of top plate temperature to  $\pm 3^{\circ}\text{C}$  ( $5.3^{\circ}\text{F}$ ) over temperature range.
- Embedded heating elements transfer heat evenly to top plate.
- Aluminum top plate maintains uniform temperature across top plate surface ( $\pm 2.4^{\circ}\text{C}$  at  $100^{\circ}\text{C}$ ) and offers low temperature ( $38^{\circ}\text{C}$ ) control.
- For safety, cycle light indicates when power is being supplied to the heating element.
- Glass vessels are recommended for use on aluminum top HPA1900.

Remote control RC1900 models offer:

- Cast iron top plate permits use at higher temperatures,  $480^{\circ}\text{C}$  maximum. Even when pitted by corrosion, the thick cast iron top provides years of durable use.
- Temperature stability of top plate to  $\pm 4^{\circ}\text{C}$  ( $7.2^{\circ}\text{F}$ ) over temperature range.
- Designed for use in fume hood and other hostile environments where the operator and temperature control need to be isolated. Temperature control can be placed up to 5 feet (1.5 meters) from hot plate.
- Cast iron top plate can be used to heat glass or metal vessels.
- Infinite temperature selection is provided by a percentage input controller.
- Thermometer well provided in top plate accommodates optional thermometer (Part No. MEX140) for monitoring top plate temperature.
- All models designed with stainless steel case for corrosion resistance and strength.
- Both models accommodate up to 20 lb (9 kg).

## APPLICATION

- Digestions
- Heat Aqueous Reagents
- Semiconductor baking
- Turn your HPA1900 or RC1900 into a hot plate utility oven.



\*see inside front cover for details



## PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)			Overall Dimensions Inches (cm)		Shipping Weight Lb. (kg)
	W	H	D	W	D	
HPA1900	6.25 (15.9)	6.25 (15.9)	6.63 (16.8)	4.38 (11.1)	7.63 (19.4)	5.0 (2.2)
RC1900	6.25 (15.9)	6.25 (15.9)	6.63 (16.8)	4.38 (11.1)	7.25 (18.4)	10.0 (4.5)

## ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range		US List Price
	Volts	Amps	Watts	$^{\circ}\text{C}$	$^{\circ}\text{F}$	
HPA1915B*	120	6.2	750	38-371	100-700	\$196.00
HPA1915B-13**	120	6.2	750	38-371	100-700	\$196.00
HPA1910M*	240	3.3	750	38-371	100-700	\$196.00
HPA1910M-26	240	3.3	750	38-371	100-700	\$196.00
RC1915	120	6.25	750	150-482	300-900	\$382.00
RC1910	240	3.13	750	150-482	300-900	\$382.00

-26 Models supplied with European cord set.

\* This model UL listed.

\*\* This model CSA listed.

Turn your HPA1900 or RC1900 into an economical hot plate utility oven. Thermolyne's Type 10600 Hot Plate Oven provides a 216-cubic-in (3512 cubic cm), aluminum heating chamber. Ideal for drying, baking, pretreating and curing applications.



# Hot Plates

ALUMINUM TOP

Lab-Line

Model 1180



## SAFE AND ECONOMICAL!

● — Adjustable temperatures up to 382 °C

★ — 24 Month Warranty



## PRODUCT DESCRIPTION

- Ideal for general lab heating, sample drying, heating TLC plates and liquid evaporation.
- Heats beakers and flasks up to 1 L capacity.
- Pilot light alerts user when unit is heating.
- Compact design conserves valuable bench top space.
- Aluminum top provides rapid heat transfer and excellent uniformity.
- Durable cold-rolled steel body construction.

## PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	H	W	H	D	
1180	8 (20)	7 (18)	8.25(21)	4.625 (12)	8.625 (22)	8 (4)

## ORDERING INFORMATION

Model	Volts	Electrical (50/60 Hertz) Watts	Maximum Operating Temp		US List Price
			°C	°F	
1180	120	500	382	720	\$229.00
1180-1	240	500	382	720	\$328.00

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details

# Hot Plates

ALUMINUM TOP

**Thermolyne**

Type HP88700



## UNIFORM HEATING AND RUGGED CONSTRUCTION!

- — Low temperature control
- — Uniform heating

## 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 maximum temperature is  $\pm 8^{\circ}\text{C}$  ( $\pm 14^{\circ}\text{F}$ ).
- Durable top plate stands up well to rugged use.
- 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 (11.3 kg) loads.

## APPLICATION

- Warming/curing applications - pastes, adhesives, and solder.
- General heating of aqueous solutions.

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.

## PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
HP88700	7 (17.7)	7 (17.7)	9(22.9)	5 (12.7)	9.6 (24.4)	7.1 (3.2)

## ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz)		Operating Temp Range		US List Price
		Amps	Watts	$^{\circ}\text{C}$	$^{\circ}\text{F}$	
HP88725	120	7.0	840	40-370	104-698	\$239.00
HP88720-26	230	3.6	851	40-370	104-698	\$239.00

*-26 Models Supplied with European cord set.*

## ACCESSORIES

Model #	Description	Price
SH1070X2	Workstation	\$86.00

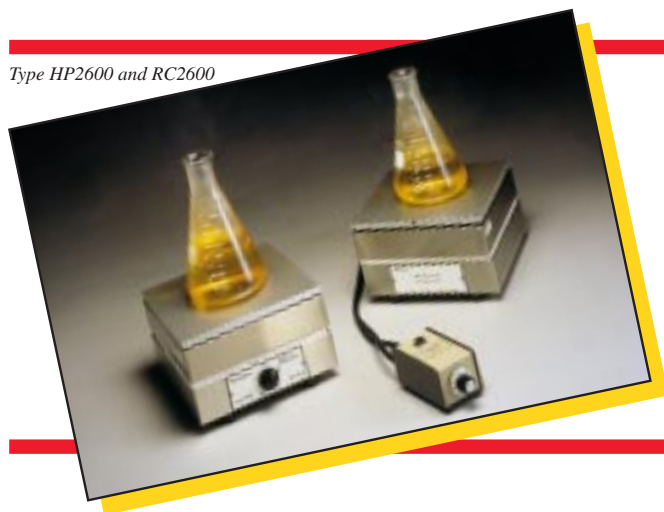


# Hot Plates

## CAST IRON TOP

Thermolyne

Type HP2600 and RC2600



### INDUSTRIAL STRENGTH!

- — Standard or remote control
- — Cast iron accommodates metal vessels

### PRODUCT DESCRIPTION

- Stainless-steel case for structural strength to support heavy loads of up to 25 lb. (11.3 kg).
- All models supplied with three-wire cord and plug.
- A choice of standard built-in or remote control models.
- Cast-iron top resists physical abuse, most corrosives and thermal shock.
- Embedded heating elements transfer heat across the entire top plate surface.
- Temperature uniformity at 150°C (300°F):  $\pm 10^{\circ}\text{C}$  ( $\pm 18^{\circ}\text{F}$ ).
- Temperature stability at 150°C (300°F):  $\pm 1^{\circ}\text{C}$  ( $\pm 1.8^{\circ}\text{F}$ ).
- Maximum operating temperature of 482°C (900°F).
- Up to 1080 watts of heating power to handle large scale heating requirements.

#### Standard HP2600 units offer:

- Four position temperature switch for low, medium low, medium and high settings.

#### Remote control RC2600 units offer:

- Five feet of extension cord allows control to be placed outside of corrosive fumehood environments.
- Infinite adjustable temperature control supplies power to the heating elements a certain percentage of time, depending on the dial setting.
- Top plate has thermometer well to accommodate optional thermometer.

### APPLICATION

- Acid or base digestions—use glass or metal vessels
- Evaporation of large volumes of aqueous solutions.

48 Hour or Sooner  
Express Shipping **RUSH**

\*see inside front cover for details

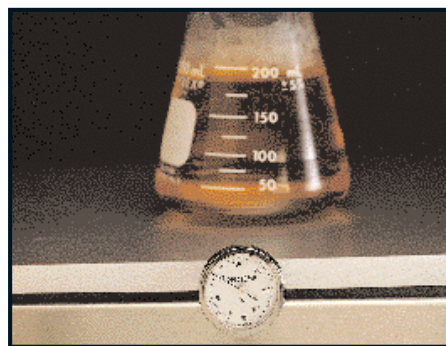
### PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
HP2600	9.0 (22.9)	9.0 (22.9)	9.0 (22.9)	6.25 (15.87)	10.0 (25.4)	17.0 (7.7)
RC2600	9.0 (22.9)	9.0 (22.9)	9.0 (22.9)	6.25 (15.87)	10.0 (25.4)	18.0 (8.2)

### ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range		US List Price
	Volts	Amps	Watts	$^{\circ}\text{C}$	$^{\circ}\text{F}$	
HP2625R	120	9.0	1080	218-482	425-900	\$462.00
HP2620R	240	4.5	1080	218-482	425-900	\$462.00
RC2625R	120	9.0	1080	100-482	212-900	\$585.00
RC2620R	240	4.5	1080	100-482	212-900	\$585.00

Optional Dial thermometer: Used to monitor top plate temperature on remote control hot plates Type 1900 and 2600. 1.688" (4.287cm) dia. face, .250" (.635cm) dia. stem x 2.5" (6.4cm) long. 100-500°C (200-1000°F) scale range. Part number: MEX140.



# Hot Plates

## ALUMINUM TOP

Thermolyne

Type HPA 2240 and HPA22300



### LARGE SURFACE FOR LARGE LOADS!

- — Large heating surface
- — Excellent temperature control
- — Up to 40 lb. (18.2 kg) loads



### PRODUCT DESCRIPTION

- Aluminum top plate outperforms other materials; provides superior temperature uniformity and stability.
 

Uniformity at 100°C (212°F):	Stability at 100°C (212°F):
HPA2235M ±4.0°C (7.2°F)	HPA2235M ±3.0°C (5.4°F)
HPA2245M ±10.0°C (18.0°F)	HPA2245M ±3.5°C (6.3°F)
- Thermostatic temperature control 'senses' and maintains hot plate temperature, provides excellent stability.
- Solid state relay and electronically controlled circuitry in 12 x 24" (30.5 x 60.9 cm) hot plate ensures safety and reliability for your high wattage applications.
- Embedded heating elements transfer heat evenly to top plate, provides uniform temperature.
- Cycle light indicates when power is being supplied to heating element.
- Stainless steel case provides optimal strength for heavy loads.
- 12 x 24" (30.5 x 60.9 cm) hot plate case is painted with epoxy paint for increased chemical resistance in corrosive environments.
- High wattage input is ideal for sizable heating tasks.
- Large 12 x 12" (30.5 x 30.5 cm) and 12 x 24" (30.5 x 60.9 cm) top plate surfaces accommodate up to 40 lb (18.2 kg) loads.
- Recommended for use with glass vessels only.

### PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
<b>12" x 12" (30.5 cm x 30.5 cm) Heating Surface</b>						
HP2200	12 (30.5)	12 (30.5)	12 (30.5)	6.13 (15.6)	13 (33)	21 (9.5)
<b>12" x 24" (30.5 cm x 60.9 cm) Heating Surface</b>						
HP2200	24 (60.9)	12 (30.5)	24 (60.9)	6.25 (15.9)	13.75 (34.9)	43 (19.5)

NOTE: 12" X 24" (30.5 cm x 60.9 cm) top plate models not supplied with cord and plug due to high-wattage consumption requirements; must be connected through electrical conduit fittings.

### ORDERING INFORMATION

Model #	Electrical (50/60 Hertz)			Operating Temp Range		US List Price
	Volts	Amps	Watts	°C	°F	
HPA2235M*	120	13.3	1600	38-371	100-700	\$580.00
HPA2238M	208	7.7	1600	38-371	100-700	\$580.00
HPA2230M*	240	6.7	1600	38-371	100-700	\$580.00
HPA2230M-26	240	6.7	1600	38-371	100-700	\$580.00
HPA2245M*	120	26.6	3200	38-371	100-700	\$826.00
HPA2248M	208	15.4	3200	38-371	100-700	\$826.00
HPA2240M*	240	13.3	3200	38-371	100-700	\$826.00

\* UL and CSA listed, -26 Models Supplied with European cord set.

### APPLICATION

- Acid/Base digestions - trace metal analysis, etc.
- Sample drying.
- General reagent heating.
- Heating TLC plates.
- Evaporations.

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Express Shipping  
Guaranteed!\*

\*see inside front cover for details

# Hot Plates

## REMOTE CONTROL

Thermolyne

Type RC2240 and RC2230



### REMOTE OPERATION OF MULTIPLE VESSELS!

- — Process large volumes with uniform heating
- — Isolation of control allows operation in hostile environments

### PRODUCT DESCRIPTION

- Top plate is porcelain coated stainless steel, offers chemical and stain resistance .
- Temperature stability of the RC2200 units is  $\pm 5^{\circ}\text{C}$  ( $9^{\circ}\text{F}$ ) over the operating temperature range.
- Embedded heating elements evenly transfer heat to the top plate for maximum temperature uniformity (within  $\pm 10^{\circ}\text{C}$  ( $18^{\circ}\text{F}$ ) at  $150^{\circ}\text{C}$  ( $300^{\circ}\text{F}$ )).
- Line cord from the hot plate to remote control is protected by chemically resistant cover; control can be placed up to five feet (1.5 meters) away from unit.
- Stainless steel case offers maximum resistance to corrosion.
- Power light indicates when control is operating.
- Unit includes a five foot (1.5 meters) long three-wire cord, and plug.
- Infinite temperature selection is provided by a percentage input controller.
- Large 12" x 12" (30.5 cm x 30.5 cm) and 12" x 24" (30.5 cm x 60.9 cm) top plate surfaces accommodate up to 40 lb (18.1 kg) loads.
- Recommended for use with glass vessels only.

### APPLICATION

- Multiple sample digestions—acidic or basic aqueous solutions.
- Large scale evaporation or concentration of aqueous solutions.

### PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm)		Overall Dimensions Inches (cm)			Shipping Weight Lb. (kg)
	W	D	W	H	D	
12" x 12" (30.5 cm x 30.5 cm) Heating Surface						
RC2200	12 (30.5)	12 (30.5)	12 (30.5)	6.13 (15.5)	12 (30.5)	24.5 (11.1)
12" x 24" (30.5 cm x 60.9 cm) Heating Surface						
RC2200	24 (60.9)	12 (30.5)	24 (60.9)	6.13 (15.5)	12 (30.5)	47.5 (21.5)

### ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz)		Operating Temp Range		US List Price
		Amps	Watts	$^{\circ}\text{C}$	$^{\circ}\text{F}$	
RC2235	120	13.3	1600	150–371	300–700	\$801.00
RC2230	240	6.7	1600	150–371	300–700	\$801.00
RC2240	240	13.3	3200	150–371	300–700	\$1051.00

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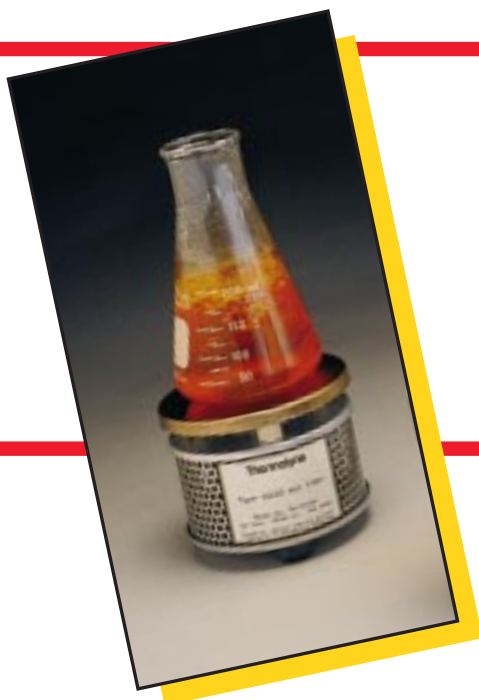
\*see inside front cover for details

# Hot Plates

## STUDENT

Thermolyne

Type HP15500



### ECONOMICAL FIXED TEMPERATURE!

- — Compact design
- — Quick heat up
- — Economical



### PRODUCT DESCRIPTION

- Low profile and small diameter heating surface combines to give you lots of heat in a very small footprint. Maximum temperature—399°C (750°F).
- Perforated stainless steel case allows air to circulate to protect controls and counter top from excess heat.
- Thermostatic control is preset at 399°C (750°F) and stainless steel top heats to maximum temperature in just eight minutes!
- Ideal for quick sample testing.
- Recommended for use with glass vessels.

### APPLICATION

- General laboratory heating of aqueous solutions.
- Sample drying.
- Evaporation of aqueous solutions.
- Acid/base micro-digestions.

### PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm) Diameter	Overall Dimensions Inches (cm)		Shipping Weight Lb. (kg)
		H	D	
HP15500	4.0 (10.10)	3.13 (7.9)	4.0 (10.1)	1.75 (.79)

### ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz) Amps	Watts	Maximum Operating Temp		US List Price
				°C	°F	
HP15515B*	120	2.5	330	399	750	\$101.00
HP15510B	240	1.25	330	399	750	\$101.00

\* This model UL listed.

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Express Shipping  
Guaranteed!\*

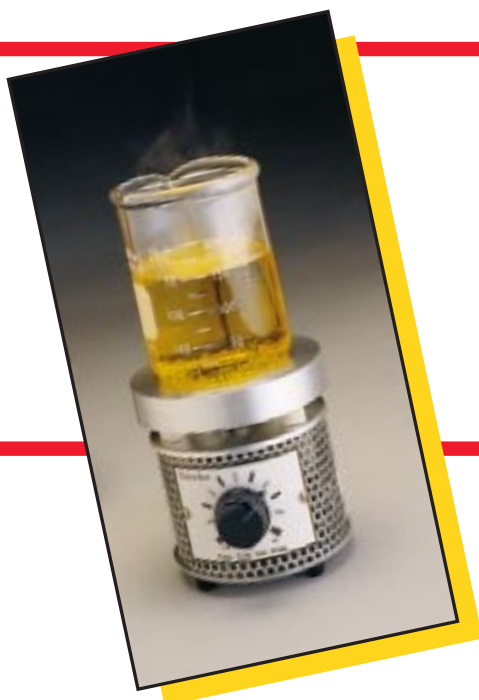
\*see inside front cover for details

# Hot Plates

## STUDENT

**Thermolyne**

Type HP2300



### ECONOMICAL ADJUSTABLE TEMPERATURE!

- — Compact design
- — Quick heat up
- — Economical



### PRODUCT DESCRIPTION

- Low profile and small diameter heating surface combines to give you lots of heat in a very small footprint. Maximum temperature—371°C (700°F).
- Perforated stainless steel case allows air to circulate to protect controls and counter top from excess heat.
- The infinitely-adjustable thermostatic temperature control senses the temperature of the cast aluminum top plate, providing excellent stability of the top plate temperature and your sample.
- Ideal for quick sample testing—hot plate reaches 260°C (500°F) in just 4 1/2 minutes.
- Recommended for use with glass vessels.

### APPLICATION

- General laboratory heating of aqueous solutions.
- Sample drying.
- Evaporation of aqueous solutions.
- Acid/base micro-digestions.

### PRODUCT SPECIFICATIONS

Type	Heating Surface Inches (cm) Diameter	Overall Dimensions Inches (cm)		Shipping Weight Lb. (kg)
		H	D	
HP2300	3.56 (9.0)	3.75 (9.5)	4.5 (11.4)	2.0 (.90)

### ORDERING INFORMATION

Model #	Volts	Electrical (50/60 Hertz) Amps	Watts	Operating Temp Range		US List Price
				°C	°F	
HP2305B*	120	2.7	325	38–371	100–700	\$153.00
HP2310B	240	1.4	325	38–371	100–700	\$153.00

\* This model UL listed.

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details



# Hot Plates

DIGITAL AND PROGRAMMABLE 700 SERIES

PMC

Model 722A and 720C



## DIGITAL AND PROGRAMMABLE!

- — Microprocessor closed-loop control
- — Regulate sample temperature with an accessory immersion probe
- — Programmability

## PRODUCT DESCRIPTION

- A microprocessor to regulate key process parameters - heating and ramp cycle timing. The 730 series hot plates are fully programmable. The 720 series hot plates are simple, direct entry, non-programmable models. The 720 series models allow the operator to set one temperature and one timed period.
- PMC 720 and 730 series digital hot plates are available with aluminum and porcelain-coated stainless steel top plates. 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.
- Choose from two top plate sizes - 7" x 7" (17.7 x 17.7 cm) or 10" x 10" (25.4 x 25.4 cm).
- 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.

## PMC DATAPLATE® 720 and 730 Series Digital Hot Plates offer:

- Digital display of all parameters for easy operation. 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).
- 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 offer:

- Programming - A single program of up to 75 steps (temperature ramps or dwells) 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.

## APPLICATION

- Digestions - controlled, time-dependent procedures for heat sensitive biologicals
- Enzymatic/kinetic studies
- Solubility studies

48 Hour or Sooner  
Express Shipping  
Guaranteed!\*



\*see inside front cover for details