

# VWR Hotplate Stirrers

INDUSTRY LEADING  
SAFETY FEATURES

WORLD CLASS TEMPERATURE  
CAPABILITIES WITH  
POWERFUL STIRRING

BEST-IN CLASS EXCLUSIVE  
5 YEAR WARRANTY



## VWR® Hotplate/Stirrer selection guide

### How to select a hotplate/stirrer

Review the following points to help you select the appropriate hotplate/stirrer for your unique application

#### 1. CONTROL TYPES:

Both Advanced and Professional units offer a closed-loop PID microprocessor for both temperature and speed control. This control type offers electronic feedback for control of both temperature and speed producing greater accuracy and ease-in-use for reproducing your results. Microprocessor controls automatically stabilizes the top plate for temperature and or stirring speeds by regulating for variations in the system with reference to the original set point. Professional units include a built-in timer, allowing for greater independence. Also included with the Professional-series Hotplate Stirrers is an external stainless steel temperature probe. The probe guarantees the utmost in sample temperature monitoring and control, delivering  $\pm 1\%$  temperature stability.

The Basic Mini and Dyla Series offers an open-loop speed control and mechanical thermostat that is not designed for exact regulation over speed or temperature. When precision is not needed these units offer an economical and reliable alternative.

#### 2. TEMPERATURE NEEDS:

Temperature uniformity refers to the consistency of the temperature across the top plate. Each top plate material has its pros and cons. Ceramic top plates are more chemical resistant, heat up very quickly, and are easy to clean. The white reflective surface aids in viewing the sample. However, ceramic tops are subject to thermal shock. Heating of metallic vessels should be avoided. The edges of a ceramic top plate may not be as hot as the center where the heating element is located. Aluminum top plates offer a more uniform heating surface, will not crack or chip but are more susceptible to corrosion and more difficult to clean.

#### 3. SAMPLE SIZE:

The size or volume of your sample is another important factor to consider when selecting a hotplate or stirrer. Always consider the largest sample that you may be working with and look for one that can handle that capacity. The capacities listed are based on water. A viscous sample will weigh more than water.

#### 4. VISCOSITY:

Sample viscosity plays a role in selecting a stirrer. The magnetic coupling strength is a factor in determining which size stirrer to choose. The right drive-magnet and stir bar combination is needed to efficiently stir the sample. Variables such as sample size or weight and top plate size dictate which stirrer will work best. The stir bar size and shape, the distance between the drive magnet and the stir bar, vessel shape and size, speed and viscosity also must be considered. The more viscous the sample, the greater magnetic coupling strength needed.

## VWR PROFESSIONAL HOTPLATE-STIRRERS.

Designed for applications requiring exceptional accuracy, stability, and repeatability, VWR Professional hotplate-stirrers are equipped with superior heating and mixing capabilities. With temperature ranges up to 500°C and stirring speeds reaching 1600rpm, the hotplate-stirrers are equipped to handle any research, academic and industrial application. Available in two sizes.

- Excellent temperature uniformity and powerful stirring
- Easy to read, large LCD displays temperatures, speed and timer settings
- Cool touch, chemical-resistant housing
- Includes a PT1000 RTD temperature probe
- Best-in-class, exclusive 5-Year warranty
- Industry leading safety features
- Available with a NIST Traceable, ISO/IEC 17025 Accredited Calibration Certificate from Troemner
- Manufactured in the USA

### OPERATING FEATURES

**MICROPROCESSOR CONTROL:** A closed-loop PID microprocessor for both temperature and speed control. This control type offers electronic feedback for control of both temperature and speed producing greater accuracy and ease-in-use for reproducing your results. Microprocessor controls automatically stabilizes the top plate for temperature and or stirring speeds by regulating for variations in the system with reference to the original set point. Precise speed control provides consistent stirring at all speeds. Powerful continuous-duty motor delivers dependable and reliable stirring. Display will show last used settings, even after power has been turned off. Enhanced electronics regulate the heating and will bring samples to the desired temperature quickly and efficiently.

**LARGE DIGITAL DISPLAY:** The easy to use and easy to read front panel includes two intuitive dial knobs to navigate the settings and menu options. The LCD always displays both set and actual temperature / speed, and timer information for convenient monitoring.

**LOW PROFILE DESIGN:** The low-profile design occupies minimal bench space, and fits into fume hoods. Spill-resistant design channels fluids away from internal components

**BUILT IN SUPPORT ROD HOLDER:** The rear housing of the hot plate features an off-centered, built-in support rod holder with locking knob and accepts a variety of accessories. Includes support rod plug to help keep clean when not in use.

**CERAMIC TOP PLATE:** White, reflective ceramic tops are chemical-resistant and easy to clean.

**TIMER AND AUDIBLE ALARM:** A timer displays elapsed time or when programmed to a user-defined limit, will shut off unit when time reaches zero. An alarm will sound when time reaches zero or when unit reaches set-point temperature.

**RTD PROBE:** Professional models include an 8" (20cm), PT1000 stainless steel RTD probe, which ensures precise temperature control of the sample.

**TEMPERATURE CALIBRATION:** Three, user defined temperature calibration set points for allowing probe and plate calibrations to an external temperature device.

### SAFETY FEATURES

Hot plates are equipped with a variety of innovative safety features designed to facilitate efficient operation and workplace safety.

**OVER HEAT PROTECTION:** Units are equipped with an industry-leading early detection system that utilizes two independent safety controls to continuously monitor the electronics and shut off heating before an over-temperature condition occurs.

**COOL TOUCH HOUSING:** Unit housing is constructed of a heat and chemical-resistant polymer that remains cool to the touch throughout use.

**SPILL RESISTANT DESIGN:** Housing channels fluids away from internal components in the event of a spill. Additional protection is available with the optional In-Use Cover.

**TEMPERATURE LIMIT FEATURE:** A maximum temperature limiting function ensures the plate temperature will not exceed a user defined limit, allowing for control of samples with sensitive flash points.

**HOT TOP INDICATOR:** A large 13mm, hot top warning light is illuminated when the heat is turned on. This hot top warning light remains lit until the top plate is below 40°C, even when unit is turned off.

**STIR PROTECTION:** If stirrer motor stops or fails, unit will automatically shut down heater. If using the temperature probe, in the event that the probe disengages from the sample, the heater will automatically shut off.

**SPEED RAMPING FEATURE:** Motor slowly increases speed for improved safety and enhanced coupling. Avoids splashing, improves spin bar control, and provides excellent low-end speed control.

### OPERATING CONDITIONS

Unit can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 80% relative humidity, non-condensing. Not recommended for use in vacuum or low-pressure environments.

### ORDERING INFORMATION

Units include a 234 cm (92") detachable, 3-wire cord and plug, and a 3.8 cm (1.5") PTFE coated stir bar. Professional units are supplied with an 8" (20.3cm) RTD probe. 230V, 50/60Hz models include a Euro and UK style plug and CH adapter.

### CERTIFICATIONS

RoHS certified. TÜV listed. CE marked. Calibrated Hotplates include a Troemner ISO/IEC Accredited Calibration Certificate traceable to NIST. The ISO/IEC 17025 Accredited Calibration Certificate includes multiple data points within the temperature and speed ranges and time function with the associated uncertainties. Troemner is accredited by NVLAP under Laboratory Code 105013-0 to perform ISO/IEC 17025 calibrations.

**Product Safety:** TÜV SÜD certified to CAN/CSA C22.2 61010-1; CAN/CSA C22.2 61010-2-010; CAN/CSA C22.2 61010-2-051; UL 61010-1; UL 61010-2-010; UL 61010-2-051

**Electromagnetic Compatibility:** Canada ICES-003 Class A; FCC Part 15 Class A

Compliance Mark: TÜV SÜD

Replacement probes, In-Use Covers, and vessel clamps are available, see accessories on page 6.



76447-026 with optional 11301-110 support rod kit

76447-046

Specifications

Top Plate Dimensions	
7 X 7"	7 x 7" (17.8 x 17.8 cm)
10 X 10"	10 x 10" (25.4 x 25.4 cm)
Operating Specifications	
Temperature Range	Ambient +5°C to 500°C
Temperature Stability of Top Plate+	± 1% > 100°C, ± 1°C ≤ 100°C
Temperature Stability with temperature probe++	± 0.5 % > 100°C, ± 1°C ≤ 100°C
Speed Range	60 to 1600 rpm
Speed Stability	± 2%
Timer	1 minute – 99 hours, 59 minutes
Maximum Capacity	
7 X 7"	10 L
10 X 10"	13 L
Overall Dimensions	
7 X 7"	12.2 x 8.8 x 4.8" (30.7 x 22.4 x 12.2 cm)
10 X 10"	16.3 x 11.25 x 4.8" (42.2 x 28.6 x 12.2 cm)
Ship Weight	
7 X 7"	7.8 lbs (3.5 kg)
10 X 10"	12.6 lbs (5.7 kg)

Note: + 2" diameter center of top plate  
 ++ 800 mL of water in 1 L flask and 50°C, 23°C ambient, 8" (20 cm) SS probe

Description	Top Plate Material	Electrical	Cat. No.
<b>Hotplate/Stirrer Accessories Temperature Probes</b>			
8" (20.3 cm) Stainless Steel PT1000 Probe			97042-770
8" (20.3 cm) PTFE PT1000 Probe			97042-772
10" (25.4 cm) Stainless Steel PT1000 Probe			97042-774
10" (25.4 cm) PTFE PT1000 Probe			97042-776
Replacement Probe Kit with 8" (20.3cm) Stainless Steel PT1000 Probe, 18" (45.7CM) Stainless steel support rod, Hook connector, Thermometer clamp, and 3-Prong swivel clamp			97042-778

Description	Top Plate Material	Electrical	Cat. No.
<b>VWR Professional Hotplate-Stirrers</b>			
7 X 7" Hotplate-Stirrer	Ceramic	120 volts : 10.0 amps: 1200 watts	76447-040
7 X 7" Hotplate-Stirrer	Ceramic	230 volts : 6.0 amps: 1380 watts	76447-046
7 X 7" Hotplate-Stirrer with NIST Traceable Certificate	Ceramic	120 volts : 10.0 amps: 1200 watts	76447-048
7 X 7" Hotplate-Stirrer with NIST Traceable Certificate	Ceramic	230 volts : 6.0 amps: 1380 watts	76447-042
10 X 10" Hotplate-Stirrer	Ceramic	120 volts : 11.2 amps: 1344 watts	76447-026
10 X 10" Hotplate-Stirrer	Ceramic	230 volts : 7.0 amps: 1610 watts	76447-020
10 X 10" Hotplate-Stirrer with NIST Traceable Certificate	Ceramic	120 volts : 11.2 amps: 1344 watts	76447-028
10 X 10" Hotplate-Stirrer with NIST Traceable Certificate	Ceramic	230 volts : 7.0 amps: 1610 watts	76447-022

See Page 6 for Accessories

## HOTPLATES, STIRRERS, & HOTPLATE-STIRRERS

Advanced hotplates, stirrers, and hotplate-stirrers are designed to deliver accurate and repeatable results in all research, academic, and industrial applications. With temperature ranges up to 500°C and stirring speeds reaching 1600rpm, the VWR hotplate-stirrers provides proper mixing and superior temperature control. Available in three sized and two top plate materials.

- Excellent temperature uniformity and powerful stirring
- Easy to read, large LCD displays temperatures and speeds
- Industry leading safety features
- Cool touch, chemical-resistant housing
- Best-in-class, exclusive 5-Year warranty
- Manufactured in the USA

### OPERATING FEATURES

**MICROPROCESSOR CONTROL:** A closed-loop PID microprocessor for both temperature and speed control. This control type offers electronic feedback for control of both temperature and speed producing greater accuracy and ease-in-use for reproducing your results. Microprocessor controls automatically stabilizes the top plate for temperature and or stirring speeds by regulating for variations in the system with reference to the original set point. Precise speed control provides consistent stirring at all speeds. Powerful continuous-duty motor delivers dependable and reliable stirring. Display will show last used settings, even after power has been turned off. Enhanced electronics regulate the heating and will bring samples to the desired temperature quickly and efficiently.

**LARGE DIGITAL DISPLAY:** The easy to use and easy to read front panel includes two intuitive dial knobs to navigate the settings and menu options. The LCD displays temperature / speed and toggles between actual and set readings.

**LOW PROFILE DESIGN:** The low-profile design occupies minimal bench space, and fits into fume hoods. Spill-resistant design channels fluids away from internal components

**BUILT IN SUPPORT ROD HOLDER:** The rear housing of the hot plate features an off-centered, built-in support rod holder with locking knob and accepts a variety of accessories. Includes support rod plug to help keep clean when not in use.

**CERAMIC OR ALUMINUM TOP PLATE:** Ceramic tops feature a chemical-resistant, reflective white top plate surface that is easy to clean. Durable aluminum tops will not crack or chip, and offer a more uniform heating surface.

**TEMPERATURE CALIBRATION:** A user defined temperature calibration set point for allowing probe and plate calibrations to an external temperature device.

### SAFETY FEATURES

Hot plates are equipped with a variety of innovative safety features designed to facilitate efficient operation and workplace safety.

**OVER HEAT PROTECTION:** Units are equipped with an industry-leading early detection system that utilizes two independent safety controls to continuously monitor the electronics and shut off heating before an over-temperature condition occurs.

**COOL TOUCH HOUSING:** Unit housing is constructed of a heat and chemical-resistant polymer that remains cool to the touch throughout use.



76647-044

**SPILL RESISTANT DESIGN:** Housing channels fluids away from internal components in the event of a spill. Additional protection is available with the optional In-Use Cover.

**HOT TOP INDICATOR:** A large 13mm, hot top warning light is illuminated when the heat is turned on. This hot top warning light remains lit until the top plate is below 40°C, even when unit is turned off.

**STIR PROTECTION:** If stirrer motor stops or fails, unit will automatically shut down heater. If using the optional temperature probe, in the event that the probe disengages from the sample, the heater will automatically shut off. (hotplate-stirrer models)

**SPEED RAMPING FEATURE:** Motor slowly increases speed for improved safety and enhanced coupling. Avoids splashing, improves spin bar control, and provides excellent low-end speed control.

### OPERATING CONDITIONS:

Unit can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 80% relative humidity, non-condensing. Not recommended for use in vacuum or low-pressure environments.

### ORDERING INFORMATION

Units include a 234 cm (92") detachable, 3-wire cord and plug. Hotplates and hotplate-stirrers include a 3.8 cm (1.5") PTFE coated stir bar. 230V, 50/60Hz models include a Euro and UK style cord and plug and a CH adapter.

RoHS certified. TUV listed. CE marked.

**Product Safety:** TÜV SÜD certified to CAN/CSA C22.2 61010-1; CAN/CSA C22.2 61010- 2-010; CAN/CSA C22.2 61010-2-051; UL 61010-1; UL 61010-2-010; UL 61010-2-051

Electromagnetic Compatibility: Canada ICES-003 Class A; FCC Part 15 Class A

Compliance Mark: TÜV SÜD

Probes sold separately, see accessories on page 6





76447-024

76447-032

76447-056

**Specifications**

Top Plate Dimensions	
7 X 7"	7 x 7" (17.8 x 17.8 cm)
10 X 10"	10 x 10" (25.4 x 25.4 cm)
Round Top	5.3" Diameter (135mm)
Operating Specifications	
Temperature Range – Ceramic	Ambient +5°C to 500°C
Temperature Range – Aluminum 7 x 7"	Ambient +5°C to 340°C
Temperature Range – Aluminum Round Top	Ambient +5°C to 380°C
Temperature Stability of Top Plate+	± 3% > 100°C, ± 2% ≤ 100°C
Temperature Stability with Temperature Probe++	± 1% > 100°C, ± 1°C ≤ 100°C
Speed Range	60 to 1600 rpm
Speed Stability	± 2%
Maximum Capacity	
7 X 7"	10 L
10 X 10"	13 L
Round Top	10L
Overall Dimensions	
7 X 7"	12.2 x 8.8 x 4.8" (30.7 x 22.4 x 12.2 cm)
10 X 10"	16.3 x 11.25 x 4.8" (42.2 x 28.6 x 12.2 cm)
Round Top	10.5 x 6.8 x 5" (26.7 x 17.3 x 12.7 cm)
Ship Weight	
7 X 7"	7.8 lbs (3.5 kg)
10 X 10"	12.6 lbs (5.7 kg)
Round Top	5.1 lbs (2.3 kg)

Note: + 2" diameter center of top plate  
 ++ 800 mL of water in 1 L flask and 50°C, 23°C ambient, 8" (20 cm) stainless steel probe

Description	Top Plate Material	Electrical	Cat. No
<b>VWR Advanced Hotplates</b>			
7 X 7" Hotplate	Ceramic	120 volts : 10.0 amps: 1200 watts	<b>76447-036</b>
7 X 7" Hotplate	Ceramic	230 volts : 6.0 amps: 1380 watts	<b>76447-034</b>
<b>VWR Advanced Stirrers</b>			
7 X 7" Stirrer	Ceramic	120 volts : 1.0 amps: 120 watts	<b>76447-052</b>
7 X 7" Stirrer	Ceramic	230 volts : 0.5 amps: 115 watts	<b>76447-050</b>
<b>VWR Advanced Hotplate-Stirrers</b>			
7 X 7" Hotplate-Stirrer	Ceramic	120 volts : 10.0 amps: 1200 watts	<b>76447-044</b>
7 X 7" Hotplate-Stirrer	Ceramic	230 volts : 6.0 amps: 1380 watts	<b>76447-038</b>
7 X 7" Hotplate-Stirrer	Aluminum	120 volts : 10.0 amps: 1200 watts	<b>76447-032</b>
7 X 7" Hotplate-Stirrer	Aluminum	230 volts : 6.0 amps: 1380 watts	<b>76447-030</b>
Round Top Hotplate-Stirrer	Aluminum	120 volts : 8.3 amps: 996 watts	<b>76447-056</b>
Round Top Hotplate-Stirrer	Aluminum	230 volts : 4.6 amps: 1058 watts	<b>76447-054</b>
10 X 10" Hotplate-Stirrer	Ceramic	120 volts : 11.2 amps: 1344 watts	<b>76447-024</b>
10 X 10" Hotplate-Stirrer	Ceramic	230 volts : 7.0 amps: 1610 watts	<b>76447-018</b>



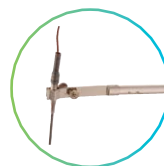
**HOTPLATE-STIRRER ACCESSORIES**

Hotplate-Stirrer Accessories Temperature Probes	Cat. No
8" (20.3 cm) Stainless Steel PT1000 Probe	<b>97042-770</b>
8" (20.3 cm) PTFE PT1000 Probe	<b>97042-772</b>
10" (25.4 cm) Stainless Steel PT1000 Probe	<b>97042-774</b>
10" (25.4 cm) PTFE PT1000 Probe	<b>97042-776</b>
Replacement Probe Kit with 8" (20.3cm) Stainless Steel PT1000 Probe	<b>97042-778</b>
In Use Cover 7x7	<b>76458-334</b>
In Use Cover 10x10	<b>76458-332</b>
In Use Cover Round	<b>76458-336</b>
Vessel Clamp	<b>76458-338</b>

Replacement probe kit includes 8" (20.3cm) stainless steel PT 1000 RTD temperature probe, 18" (45.7cm) stainless steel support rod, hook connector, temperature/thermometer probe extension clamp, and 3-prong swivel clamp.



Support Rod and Clamp Kit includes:



Extension Clamp 3-Prong Swivel Clamp Hook Connector

**VWR® SUPPORT ROD AND CLAMP KIT**

Designed for holding temperature probes, thermometers or other glass tubes. Includes an 18" (45.7cm) stainless steel support rod, thermometer/temperature-probe extension clamp, 3-prong medium swivel clamp, and hook connector.

Recommended for all hotplates or hotplate stirrers.

Description	Cat. No.
Support Rod and Clamp Kit	<b>11301-110</b>

VWR® ROUND TOP HOTPLATE STIRRER ACCESSORIES

REACTION STATION BLOCKS

- Heat and stir a variety of samples simultaneously on one hotplate
- Uni and sectional blocks accommodate 9 different sample sizes
- Anodized aluminum with close block to tube contact ensures optimal transfer of heat

The VWR Multi-Sample Reaction Station enables heating and stirring of one size or up to five multiple sample sizes, all on one unit. The base plate has a centrally located threaded opening to accommodate a 0.5" (13mm) diameter support rod. Blocks are made of anodized aluminum to provide superior temperature stability and heat transfer. Each block has a thermometer well for measuring temperature. Base plate is designed to fit VWR Round Top Hotplate-Stirrers or other 5.3" (135mm) diameter top models. Safety handles are available to aid in the safe removal of the blocks or base plate.



UNI-BLOCKS

Test Tubes

Sample Type	No. of Wells	Well Diameter	Well Depth	Cat. No.
12 mm Tube	40	12.7 mm	45.7 mm	89171-904
16 mm Tube	32	17.5 mm	45.7 mm	89171-906
20 mm Tube	32	20.5 mm	45.7mm	89171-908
25 mm Tube	24	25.4 mm	41.9mm	89171-910



Vials

Sample Type	No. of Wells	Well Diameter	Well Depth	Cat. No.
12mm Vial (2mL)	40	12.7 mm	16.8 mm	89171-894
15mm Vial (1 dram)	40	15.5 mm	16.8 mm	89171-896
17mm Vial (2 dram)	32	17.8 mm	16.8 mm	89171-898
21mm Vial (4 dram)	24	21.5 mm	16.8 mm	89171-900
28mm Vial	16	28.8 mm	16.8 mm	89171-902

SECTIONAL BLOCKS

Test Tubes

Sample Type	No. of Wells	Well Diameter	Well Depth	Cat. No.
12 mm Tube	9	12.7 mm	45.7 mm	89171-886
16 mm Tube	8	17.5 mm	45.7 mm	89171-888
20 mm Tube	6	20.5 mm	45.7mm	89171-890
25 mm Tube	5	25.4 mm	41.9mm	89171-892



Vials

Sample Type	No. of Wells	Well Diameter	Well Depth	Cat. No.
12mm Vial (2mL)	9	12.7 mm	16.8 mm	89171-876
15mm Vial (1 dram)	10	15.5 mm	16.8 mm	89171-878
17mm Vial (2 dram)	7	17.8 mm	16.8 mm	89171-880
21mm Vial (4 dram)	5	21.5 mm	16.8 mm	89171-882
28mm Vial	3	28.8 mm	16.8 mm	89171-884



Other Accessories

Accessory	Cat. No
Base Plate for 5.3" (135mm Diameter Top Plates)	89171-872
Safety Handles (set of 2)	89171-874



## VWR® BASIC MINI HOTPLATES, STIRRERS & HOTPLATE STIRRERS



- Ergonomic look and feel
- Hotplates & Hotplate Stirrers boil 300 mL of water in 16 minutes
- Ideal for educational labs
- Built in support rod holder

VWR® Basic Mini Hotplates, Stirrers, and Hotplate Stirrers are rugged, compact units that heat and stir up to 1000mL of liquid. Durable, cast aluminum top plate will not crack or chip, and provides an even heating surface. Bi-metallic thermostat offers reliable temperature control. Powerful heater reaches maximum temperature in only minutes. Powerful motor and magnet deliver reliable and consistent stirring. Compact design saves bench space. Built-in support rod holder with locking knob accepts optional Support Rod and Clamp Kit.

Basic Mini Fixed Temperature Hotplate features an illuminated rocker switch to activate the preset fixed temperature of 375°C.

Basic Mini Auto-Stirrer is automatically activated by the minimum weight of a flask or beaker and will stop stirring when mixing vessel is removed.

### OPERATING FEATURES:

**Adjustment knobs:** Basic speed and temperature control-knob with dial markings from 1 to 10.

### OPERATING CONDITIONS:

Units can be run in conditions from 5 to 40°C (41 to 104°F), 20% to 85% relative humidity, non-condensing.

### APPLICATIONS:

Academia, Basic Chemistry



### ORDERING INFORMATION

Units include a 72" (183cm), 3-wire cord and plug (230-volt units are supplied with Euro-type plug). Stirrers and Hotplate Stirrers are supplied with a 1.5" (3.8cm) PTFE-coated stir bar. Five-year limited warranty on parts and labor.

#### Specifications

Temperature Range	to 375°C *
Speed Range	100 to 1200 rpm
Maximum Capacity (H <sub>2</sub> O)	1000 mL
Top Plate Dimensions	5 x 5" (12.7 x 12.7 cm)
Overall Dimensions (L x W x H)	7.9 x 6 x 4.9" (20.1 x 15.2 x 12.4 cm)
Ship Weight	4 lbs (1.8 kg)

\* Fixed Temperature Hotplate has a fixed temperature of 375°C.

Description	Electrical (50/60 Hz)	Cat. No.
<b>VWR® Basic Mini Hotplates</b>		
Basic Mini Hotplate	120V   6 amps   565 watts	10153-300
Basic Mini Hotplate	230V   2.5 amps   430 watts	10153-302
Basic Mini Fixed Temperature Hotplate	120V   6 amps   565 watts	10153-312
<b>VWR® Basic Mini Stirrers</b>		
Basic Mini Stirrer	120V   0.5 amps   20 watts	10153-304
Basic Mini Auto-Stirrer	120V   0.5 amps   20 watts	10153-314
Basic Mini Auto-Stirrer	230V   0.25 amps   20 watts	10153-316
<b>VWR® Basic Mini Hotplate Stirrers</b>		
Basic Mini Hotplate Stirrer	120V   6 amps   565 watts	10153-308
Basic Mini Hotplate Stirrer	230V   2.5 amps   430 watts	10153-310

## VWR® DYLA SERIES



- Large 6.5" diameter cast aluminum top plate
- Built-in support rod holder

The economical and durable VWR® Dyla Series hotplate, stirrer and hotplate stirrers are ideal for general heating and stirring. Large 6.5" (16.5cm) diameter cast aluminum top plate provides a stable platform for large vessels. Even heating surface is capable of boiling water or stirring up to 1500mL of water with ease. Electronic speed control and bi-metallic thermostat delivers reliable and repeatable temperature and speed control. Powerful heater reaches maximum temperature in only minutes. Large magnet provides strong magnetic coupling to the spin bar. Indicator lights illuminate when the heater is turned on. Built-in support rod holder with locking knob accepts optional Support Rod and Clamp Kit.

### ORDERING INFORMATION

Stirrers and hotplate stirrers are supplied with a 1.5" (3.8cm) PTFE-coated stir bar. Five-year limited warranty on parts and labor.



12620-970

#### Specifications

Temperature Range	to 400°C
Speed Range	100 to 1200 rpm
Maximum Capacity (H <sub>2</sub> O)	1500 mL
Top Plate Material	Aluminum
Top Plate Dimensions (diameter)	6.5" (16.5 cm)
Overall Dimensions (L x W x H)	8.75 x 8 x 4.75" (22.2 x 20.3 x 12.1 cm)
Ship Weight	4.6 lbs (2.1 kg)

Description	Electrical (50/60 Hz)	Cat. No.
Dylatherm® Hotplate	120V   10 amps   575 watts	12620-978
Dylatherm® Hotplate	230V   5 amps   575 watts	12620-980
Dylastir® Stirrer	120V   0.5 amps   20 watts	12620-974
Dylastir® Stirrer	230V   0.25 amps   20 watts	12620-976
Dyla-Dual® Hotplate Stirrer	120V   10 amps   575 watts	12620-970
Dyla-Dual® Hotplate Stirrer	230V   5 amps   575 watts	12620-972

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