

LABNET INTERNATIONAL, INC.

# ACCUPLATE™

HOTPLATES, STIRRERS  
AND HOTPLATE STIRRERS

**Labnet**  
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- Precise liquid temperatures and stirring speeds
- Digital display and safety indicators
- Angled front panel and large knobs
- Optional external temperature controller





# ACCUPATE™

## HOTPLATES, STIRRERS AND HOTPLATE STIRRERS

Labnet's AccuPlate digital hot plates and stirrers are versatile, powerful and easy to use. Every unit is built for consistent performance and long term reliability. With 3 models to choose from, there is an AccuPlate to meet you lab's needs.

### Ceramic Advantage

Each AccuPlate is equipped with a Pyroceram® ceramic top plate which offers significant advantages over comparable metal topped units. This ceramic material is extremely durable, easy to clean and is highly resistant to chemical attack. In addition, ceramic plates can reach higher temperatures (rated to 550°C) than metal topped units and the white color makes it easy to view color changes in applications such as titrations.

### Temperature Control

The AccuPlate Hotplate and Hotplate Stirrer models incorporate a powerful heating element positioned directly beneath the ceramic top plate. This provides optimal heat transfer to the plate and sample while minimizing heat transfer to the electronics and housing. Temperature is set using the large control knob and easy to read LED display. An optional temperature probe allows closed-loop temperature control for enhanced temperature accuracy. Accuracy is within  $\pm 2^{\circ}\text{C}$  of the set temperature (when using the optional temperature probe).



### Stirring Performance

The AccuPlate Stirrer and Hotplate Stirrer utilize a powerful motor drive system paired with strong permanent magnets to ensure a consistent connection to the stir bar. The stirring speed is accurate to within  $\pm 5\%$  of the set speed. The control software is designed to minimize stir bar decoupling by regulating the acceleration rate of the motor. This allows for a range of sample viscosities to be stirred.

### Intelligent Design

Bright LED displays for speed and temperature are easy to read and large control knobs make parameter setting simple. The angled faceplate makes the display easier to read and prevents liquids from damaging the electronics. A durable cast aluminum housing incorporates a channel to direct liquids to the sides of the unit in the event of an accidental spill. The raised underside of the unit is vented to keep the internal components cool, even during extended operation.

### Safety Features

The AccuPlate Hotplate and Hotplate Stirrer models feature a bright red "Hot Top" indicator to alert users that the ceramic top is too hot to touch – even if the heater is off, the light will remain on until the top has cooled sufficiently to handle. The software also incorporates a number of error codes to detect a range of abnormal performance conditions. In the event of an atypical operating condition (i.e running the unit without proper ventilation), the AccuPlate will shut down for safety. A thermal fuse is also incorporated into the electronics to prevent over-heating in the event of a problem with the primary temperature controller.



## Specifications and Ordering Information

|                                   | AccuPlate Hotplate                        | AccuPlate Stirrer                         | AccuPlate Hotplate Stirrer                |
|-----------------------------------|---|---|---|
| <b>Catalog No.</b>                | D0400 / D0400-230V                        | D0410 / D0410-230V                        | D0420 / D0420-230V                        |
| <b>Temperature Range</b>          | 5° - 550°C<br>(41°-1022°F)                | N/A                                       | 5° - 550°C<br>(41°-1022°F)                |
| <b>Temperature Accuracy</b>       | ±2°C                                      | N/A                                       | ±2°C                                      |
| <b>Speed Range</b>                | N/A                                       | 60-1150RPM                                | 60-1150-RPM                               |
| <b>Speed Accuracy</b>             | N/A                                       | ±5%                                       | ±5%                                       |
| <b>Top Plate Material</b>         | Ceramic                                   | Ceramic                                   | Ceramic                                   |
| <b>Top Plate Size</b>             | 12.7 x 17.8cm<br>(5" x 7")                | 12.7 x 17.8cm<br>(5" x 7")                | 12.7 x 17.8cm<br>(5" x 7")                |
| <b>Product Dimensions (WxDxH)</b> | 7.75 x 11 x 4.25"<br>(19.7 x 28 x 10.8cm) | 7.75 x 11 x 4.25"<br>(19.7 x 28 x 10.8cm) | 7.75 x 11 x 4.25"<br>(19.7 x 28 x 10.8cm) |
| <b>Weight</b>                     | 2.7kg (6.0lbs.)                           | 3.2kg (7.0lbs.)                           | 3.2kg (7.0lbs.)                           |
| <b>Electrical</b>                 | 120 or 230V, 50/60Hz                      | 120 or 230V, 50/60Hz                      | 120 or 230V, 50/60Hz                      |

### ORDERING INFORMATION

#### Catalog No. Description

|            |  |
|------------|--|
| D0400      | AccuPlate Hotplate, 5"x7" Ceramic top, 120V, US Cord                 |
| D0400-230V | AccuPlate Hotplate, 5"x7" Ceramic top, 230V, EU and UK Cords         |
| D0410      | AccuPlate Stirrer, 5"x7" Ceramic top, 120V, US Cord                  |
| D0410-230V | AccuPlate Stirrer, 5"x7" Ceramic top, 230V, EU and UK Cords          |
| D0420      | AccuPlate Hotplate Stirrer, 5"x7" Ceramic top, 120V, US Cord         |
| D0420-230V | AccuPlate Hotplate Stirrer, 5"x7" Ceramic top, 230V, EU and UK Cords |
| D0461      | Kit includes D0462, D0466 and Stir Bar retriever                     |
| D0462      | External Temperature Probe (for D0400 and D0420)                     |
| D0463      | PTFE coated magnetic stir bar (1 x 2.5cm)                            |
| D0464      | Boss Head clamp – for holding D0465 at a 90° angle from D0466        |
| D0465      | Temperature probe (D0462) holding rod                                |
| D0466      | Vertical Support Rod (two 22.8cm rods which can be connected)        |

