

Laboratory

# Hotplate Magnetic Stirrer



Hot Plate Magnetic Stirrer - Compact DH 2

Hot Plate Magnetic Stirrer - Core DH 7

**Hot Plate Magnetic Stirrer - Extended DH 10**

Mix Smarter | Heat Better

## Hotplate Magnetic Stirrer - Extended DH 10

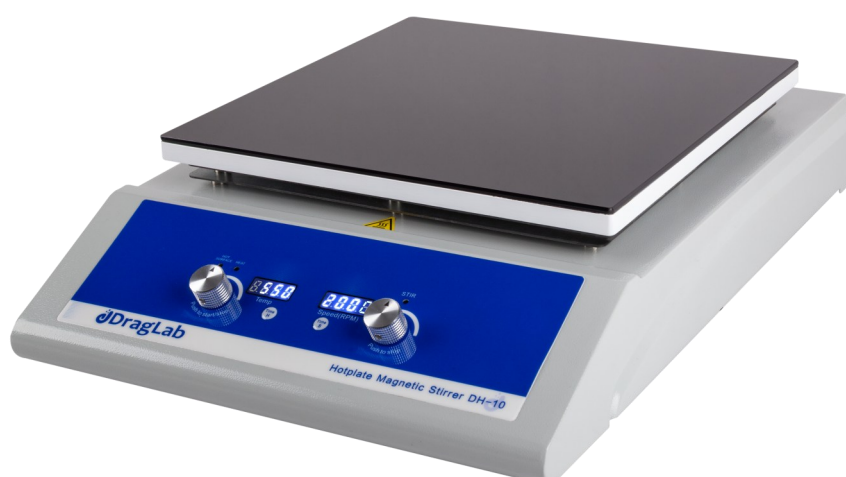
The DragLab DH 10 Hotplate Magnetic Stirrer delivers high-capacity, high-temperature heating with precise stirring control for demanding laboratory workflows. It offers elevated heating capabilities with accurate temperature control, and smooth stirring at various speeds, featuring a large working plate to deliver the appropriate heating and stirring power for your laboratory work. Ideal choice for handling your laboratory work with high accuracy and reliability.

### Advance, Accurate and Powerful

#### DragLab Hotplate Magnetic Stirrer

DH 10 model is a reliable high-capacity hotplate magnetic stirrer engineered for clinical, medical, and research laboratories. A digital LED control system allows programmable heating from 35 to 550 °C at 1500 W, along with smooth stirring from 150 to 2000 rpm suitable for vessels up to 20 L (H<sub>2</sub>O). An external connection PT1000 probe with easy calibration for the plate or solution ensure accurate, traceable temperature control with ±0.5 °C accuracy and a solution resolution of 0.1 °C.

The large 300 × 300 mm ceramic plate provides quick heating, strong chemical resistance, and simple cleaning. With safety features like HOT surface warning and overheat/medium detection to protect users and samples. The device is equipped with separate timers for heating and stirring ranging from 1 minute to 100 hours, IP21 protection rating, and an easy-to-use interface. These features make the DH 10 well-suited for various laboratory environments.



### Application:

- Clinical & diagnostic labs for buffer/media preparation, warming, and routine sample dissolution.
- Evaporation & distillation for steady heating with stirring to reduce bumping.
- Biotech & pharma labs for excipient dissolution, buffer/media prep, routine formulations.
- Environmental & food labs for extraction and sample prep with heated mixing.
- Education & QC for reliable, easy heating/stirring for daily protocols and training.
- Microbiology and culture-media melting and dissolution with uniform mixing.
- Chemistry labs for small-scale synthesis, extraction, and reaction support.
- Sample digestion and pretreatment for spectroscopic/chromatographic analysis.

## Hotplate Magnetic Stirrer - Extended DH 10



# Quality and Expertise



DragLab is certified to ISO 9001:2015, reflecting our unwavering commitment to quality and excellence. We continuously optimize our production processes, ensuring that every step is efficient and effective. Through ongoing development and innovation, we strive to meet and exceed industry standards. Our customer-centric approach prioritizes the needs and satisfaction of our clients, driving us to maintain rigorous quality assurance protocols. This dedication ensures that laboratory equipment manufactured by DragLab consistently meets the highest standards of quality and reliability.

DragLab Laboratory Devices are meticulously designed and manufactured from high-quality materials to meet the most rigorous requirements of our customers. Our commitment to excellence and innovation drives continuous development and improvement, informed by daily usage and ongoing technological advancements. 'Quality and Expertise' is not just about creating impressive product designs; it reflects our company's policy of prioritizing high preparedness and customer-centric service as our fundamental objective. This dedication extends to all DragLab products, which comply with current European standards and bear the CE mark.



## Hotplate Magnetic Stirrer - Extended DH 10

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### Features:

#### Display :

Advanced LED digital display, for plate temperature and speed controls.

#### Control System :

Digital control system for heating and stirring function; compatible connection with external PT1000 probe and calibration capability.

#### Temperature Control:

Adjustable from 35–550 °C with 1500 W for fast heat-up and stable control.

#### Adaptable Heating Control:

Plate Control for surface set-points or Solution Control using PT1000 to control liquid temperature.

#### Stirring Power:

Provides smooth magnetic stirring from 150 to 2000 rpm and manages up to 10 L with compatible stir bars.

#### Independent Timer function:

Built-in timers for Heating and for Stirring operate independently, each adjustable from 1 minute to 100 hours for method-driven workflows.

#### Large, High-performance Plate:

Equipped with a large Ceramic plate that provide high working area with excellent temperature and stirring control for heavy-duty protocols and excellent chemical/solvent resistance.

#### High Capacity stirring:

Wide 150-2000 rpm range with reliable magnetic coupling up to 20L (H<sub>2</sub>O). Compatible with 30-80 mm stirring bars.

#### Ergonomic Durable Design:

The square 300 X 300 mm, durable ceramic plate provides quick heat transfer, excellent chemical resistance, and easy cleaning.

#### Safety Features:

HOT surface warning and overheat/medium detection for safe, reliable operation.

#### User-friendly controls:

Positive-feedback knobs and clear numerals ensure quick adjustments and effortless readability under laboratory conditions.

#### Construction Material:

Rigid, corrosion-resistant housing designed for daily bench work with IP21 splash protection.

#### Warranty :

2 year warranty worldwide .

## Hotplate Magnetic Stirrer - Extended DH 10

### Technical Specifications:

#### Control technology

<b>Control System</b>	Digital control for heating, stirring and timer.
<b>Display</b>	LED digital display showing active Heating , Stirring status and timer function.
<b>Control panel</b>	Positive-feedback knobs with push to start/stop technology and independent timer buttons.
<b>Indicators</b>	LED Working (heat) indicator and (Hot Surface) indicator
<b>Timer</b>	Independent timers for heating and stirring ( 1 to 100 h)
<b>Operation Modes</b>	Adjustable Plate Temperature Control or Solution Temperature Control via PT1000 sensor
<b>Temperature range for plate</b>	35-550°C
<b>Temperature range for solution</b>	35.0-200.0°C
<b>Smooth magnetic stirring</b>	Adjustable from 150–2000 rpm
<b>Heating resolution of plate</b>	1.0 °C
<b>Heating resolution of solution</b>	0.1 °C when using the external PT1000 probe temperature stability: 1.0 °C
<b>heat control accuracy</b>	±0.5 °C with PT1000
<b>Calibration</b>	supported on external thermometer.

#### Standard equipment

<b>Plate diameter</b>	300 X 300 mm
<b>Plate material</b>	ceramic plate
<b>Number of stirring positions</b>	1
<b>Stirring volume</b>	20 Litre max. (H2O)
<b>Surface construction</b>	Hard ceramic surface is scratch-resistant and easy to wipe clean
<b>Outer casing</b>	Rigid, corrosion-resistant housing, Powder-coated with stoved enamel paint
<b>Stirring bars</b>	compatible 25–60 mm stir bars
<b>Dimensions</b>	330X460X110 mm
<b>Net weight</b>	7.5 KG
<b>Stirring quantity</b>	20L max. per stirring position (Water)
<b>External temperature sensor</b>	Connection for PT 1000

#### Safety and Compliance

<b>LED Indicators</b>	Integrated LED indicators for user safety
<b>HOT Warning</b>	HOT surface indicator remains illuminated while the plate is above a safe touch temperature to promote safe handling.
<b>Overheat and Medium detection</b>	Overheat warning in plate and medium detection are displayed as error codes for user safety.
<b>Smooth acceleration/ deceleration</b>	helps prevent splashing and stir-bar decoupling when starting, stopping, or changing speeds
<b>Compliance</b>	CE, IP21, DIN 60529, IEC 61010 61010-1

## Hotplate Magnetic Stirrer - Extended DH 10

### Technical Specifications:

#### Technical Data

<b>Voltage</b>	AC 190–240 V, 50/60 Hz
<b>Power Consumption</b>	1500 watt
<b>Protection class</b>	IP 21 according to DIN EN 60529
<b>Installation Environment</b>	Indoor use on a level, stable bench away from direct sunlight, drafts, and external heat sources. Use a fume hood when heating volatile or hazardous solvents.
<b>Operating Temp.</b>	10 °C – 40 °C
<b>Humidity (operation)</b>	30% – 80% RH (non-condensing)
<b>Air Pressure</b>	700 – 1060 hPa
<b>Storage Temp.</b>	10 °C – 40 °C (Ensure unobstructed air inlets/outlets on the chassis )

#### Accessories

<b>Standard Accessories</b>	Power cable User Manual Stirring Bars (3 sizes)
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#### Shipping information

<b>Customs tariff number</b>	84198990
<b>Dimensions approx. incl. carton</b>	520 (W) X 400(D) X 170 (H) mm
<b>Gross weight carton</b>	9.00 KG

### Order Information:

Description	Model	Article number
Hotplate Magnetic Stirrer - Large Plaet - 220 V, 50/60 Hz	DH 10	6010.000