# Hotplate Magnetic Stirrer

## Hotplate Magnetic Stirrer







# Hotplate Magnetic Stirrer LHST-A10

Hotplate Magnetic Stirrer LHST-A10 is a table top device with a speed range of 100 to 2000 rpm, temperature range of 0 to 380°C and can stir liquid volume up to 5000 ml. Simultaneous heating and stirring, enclosed heating plate, fast warm-up, stepless heating power and stirring speed, large plate size etc. are some of the characteristic feature which ensures precise control of temperature along with stable rotation. It is used in scientific research labs, university labs etc.

## Features:

- Leakage proof exterior
- Simultaneous heating and stirring function
- Flame protected heating plate
- Rapid warming and highly durable plate
- Stepless adjustable heating and stirring
- Aluminium body which is sprayed externally
- Regulation of speed done by an efficient motor
- PTFE stirring bar
- Continuous operation possible

## Applications:

It is used to mix components and obtain a homogenous mixture. Various experiments in chemistry and biology require it to process samples.

## Specifications:

| Model no. | LD-LHST-A10 |
|---|---|
| **Speed** | 100 to 2000 rpm |
| **Net weight** | 2.2 kg |
| **Plate Load** | 10 kg |
| **Motor Power** | 20 W |
| **Gross Weight** | 3.4 kg |
| **Power Supply** | 110 V or 220 V , 50/60 Hz |
| **Setting Mode** | Scale |
| **Heating Power** | 0.5 kW |
| **Maximum Volume** | 5000 ml |
| **Plate Dimension** | 170×170 mm |
| **Minimum Revolution** | 100 rpm |
| **Maximum Temperature** | 380°C |

| | |
|---|---|
| **Packing Dimension (W×L×H)** | 280×210×220 mm |
| **Exterior Dimension (W×L×H)** | 265×185×190 mm |

# Hotplate Magnetic Stirrer LHST-A11

Hotplate Magnetic Stirrer LHST-A11 is a table top device with a speed range of 100 to 2000 rpm, temperature range of 0 to 380°C and can stir liquid volume up to 2000 ml. Simultaneous heating and stirring, enclosed heating plate, fast warm-up, stepless heating power and stirring speed, large plate size etc. are some of the characteristic feature which ensures precise control of temperature along with stable rotation. It is used in scientific research labs, university labs etc.

## Features:

- Leakage proof exterior
- Simultaneous heating and stirring function
- Flame protected heating plate
- Rapid warming and highly durable plate
- Stepless adjustable heating and stirring
- Aluminium body which is sprayed externally
- Regulation of speed done by an efficient motor
- PTFE stirring bar
- Continuous operation possible

## Applications:

It is used to mix components and obtain a homogenous mixture. Various experiments in chemistry and biology require it to process samples.

## Specifications:

| Model no. | LD-LHST-A11 |
|---|---|
| **Speed** | 100 to 2000 rpm |
| **Net weight** | 1.9 kg |
| **Plate Load** | 3 kg |
| **Motor Power** | 10 W |
| **Gross Weight** | 3 kg |
| **Power Supply** | 110 V or 220 V , 50/60 Hz |
| **Setting Mode** | Scale |
| **Heating Power** | 0.18 kW |
| **Maximum Volume** | 2000 ml |
| **Plate Dimension** | 120×120 mm |
| **Minimum Revolution** | 100 rpm |
| **Maximum Temperature** | 380°C |

| | |
|---|---|
| **Packing Dimension (W×L×H)** | 250×180×120 mm |
| **Exterior Dimension (W×L×H)** | 200×120×90 mm |

# Hot plate Magnetic Stirrer LHMS-A13

Hot plate Magnetic Stirrer LHMS-A13 designed with Digital + Heating + Stirring mode of operation, 350°C maximum temperature, and 200 to 2000 rpm speed range. Features dual sensor model design, where PT100 sensor used, for controlling heating liquid temperature, and K model sensor used to control hot plate temperature. Heating & Stirring is proceeded simultaneously. LCD Screen Display shows temperature, rotational speed, and time simultaneously. It offers one key to shift inside and outside sensor, for easy, precise operation, and a speed switch to start and stop stirring at any time.

## Features:

- Mode of operation - Digital + Heating + Stirring
- Speed range - 200 rpm to 2000 rpm
- Maximum temperature 350°C
- Continuous work mode, Simultaneous heating and stirring
- Enclosed hot plate with flame protection, fast warm-up and durable
- Step less adjustable heating power and stirring speed
- Hotplate Magnetic Stirrer comes with the adjustable PT100 sensor rack and stainless steel rods
- Dual Sensor Outer PT100 sensor for inner heating liquid temperature control
- K Model sensor to control hot plate temperature
- LCD Screen Display shows temperature, rotational speed, time simultaneously
- Speed switch to start and stop stirring at any time
- One key to shift inside and outside sensor, for easy operation

## Applications:

Used to mix component, for liquid mixing, in chemical synthesis, physical and chemical analysis, bio- pharmaceuticals etc.

## Specifications:

| Model no. | LD-LHMS-A13 |
|---|---|
| **Mode** | Digital + Heating + Stirring |
| **Speed** | 200 rpm to 2000 rpm |
| **Timer** | Yes (Timing function: 0-9999 min) |
| **Sensor** | PT100 |
| **Voltage** | 110 V 50 Hz 220 V 60 Hz |
| **Stir bar** | PTFE |
| **Net weight** | 5 kg |
| **Plate load** | 10 kg |
| **Plate size** | 190 × 190 mm |

| | |
|---|---|
| **Temperature** | 350°C |
| **Driving mode** | Motor |
| **Gross weight** | 6 kg |
| **Setting mode** | Digital |
| **Working time** | Continuous |
| **Heating plate** | SS with Ceramic coating |
| **Maximum volume** | 5000 ml |
| **Minimum revolution** | 200 rpm |
| **Operation function** | Yes |
| **Setting display mode** | Digital |
| **Exterior dimensions ( W × L × H )** | 320 × 190 × 125 mm |
| **Packaging dimensions ( W × L × H )** | 390 × 240 × 230 mm |

# Hotplate Magnetic Stirrer LHST-A22

Hotplate Magnetic Stirrer LD-LHST-A22 is a table top device with 20 L maximum capacity and temperature range from 5 to 40˚C. This Hotplate is designed with glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer. Features dual digital LCD display for clear view of temperature and speed of hot plate. It speed ranges from 200 to 1500 rpm and offers 1000 W heating power. Design with PT 1000 temperature sensor and brushless DC motor and, the work plate temperature is optimized up to 550°C.

## Features:

- Designed with dual LCD display for precise monitoring of speed and temperature
- Magnetic hotplate stirrer maximum capacity of liquid is 20 L
- Maximum heating plate temperature is 550˚C
- Material used glass ceramic work plate provides excellent chemical resistant performance and most efficient heat transfer
- Offers external temperature control is possible by connecting the temperature sensor (PT1000) with an accuracy at ±0.2°C
- Digital speed controlling, maximum speed at 1500 rpm
- Brushless DC motor is maintenance free enables more stirring power
- Offers two rotating knobs enable easy adjustment of speed and temperature
- The “HOT” warning will flash when the work plate temperature is above 50°C even when the hotplate is turned off
- Built-in PID controller ensures safe heating of the medium with overheating protection
- Equipped with remote function provides PC control and data transmission

## Applications:

Hotplate Magnetic Stirrer used in chemical synthesis, physical and chemical analysis, bio-pharmaceuticals, etc.

## Specifications:

| Model no. | LD-LHST-A22 |
|---|---|
| **Weight** | 5.3 kg |
| **Humidity** | 80 % RH |
| **Dimension** | 215 × 360 × 112 mm |
| **Motor type** | Brushless DC motor |
| **Resolution** | ±1 rpm |
| **Hot warning** | 50°C |
| **Speed range** | 100 to 1500 rpm |
| **Power supply** | 110 to 240V, 50/60 Hz |
| **Speed display** | LCD |
| **Data connector** | RS232 |

| | |
|---|---|
| **Heating output** | 1000 W |
| **Protection class** | IP21 |
| **Power consumption** | 1050 W |
| **Temperature range** | 5 to 40˚C |
| **Motor rating input** | 18 W |
| **Stirring positions** | 1 |
| **Motor rating output** | 10 W |
| **Temperature display** | LCD |
| **Work plate material** | Glass ceramic coating |
| **Work plate Dimension** | 184 × 184 mm (7 inch) |
| **Max. stirring quantity** | 20 L H2O |
| **Overheating protection** | 580˚C |
| **Max. magnetic bar length** | 80 mm |
| **Heating temperature range** | Room temp. -550˚C, increment 1°C |
| **External temperature sensor** | PT 1000 (accuracy ±0.2°C) |
| **Temperature control accuracy** | ±1°C (100°C) ±1 % (>100°C) |
| **Temperature display accuracy** | ±0.1˚C |

# Hotplate Magnetic Stirrer LHST-A20

Hotplate Magnetic Stirrer LD-LHST-A20 is a compact, tabletop device having magnetic stirrer with heating function, offers rotating speed of 100 to 1200 rpm. Designed with round glass ceramic top plate and octahedral stir bar provides maximum set temperature of 450˚ C. With USB port interface and timer, memory function for stirring speed and setting temperature, and high safety protection, this device offers 20 L of capacity. Equipped with advanced microprocessor controlling system with 2 PID parameters set, infrared heating element, PT100 temperature sensor and PT100 sensor holder provides quick heating with stable temperature. LCD digital display with knob control, corrosion resistant sealed casing with isolated critical parts design and drainage above control boards ensures convenient and hassle-free usage.

## Features:

- Advanced microprocessor controlling system with PID parameters set, PT100 temperature sensor and PT100 sensor holder
- Octahedral Stir Bar for efficient stirring
- Accurate solution temperature in general range
- Bright and clear LCD digital display with memory of the last working parameters
- Ceramic glass top plate with infrared heating element
- Sealed outer shell and isolated critical parts design with drainage above control board
- Knob control with high safety protection
- Memory function for stirring speed and setting temperature
- Corrosion and chemical resistant
- Rapid heating speed with safety temperature protection system
- USB interface with communication
- Reliable, stable and hermetically sealed guarantees long, hassle free and convenient usage

## Applications:

Hotplate magnetic stirrers are used for organic synthesis, extraction, analysis of oil products, pH-measurements, dialysis, soil suspending, preparing buffer solutions etc. across the field of chemical engineering, microbiology, pharmaceuticals, geology, scientific research, biotechnology, biochemistry etc.

## Specifications:

| Model no. | LD-LHST-A20 |
|---|---|
| **Drain** | Yes (above control board) |
| **Motor** | NA |
| **Timer** | 1 to 1999/min; continuous |
| **Weight** | 7.5 kg |
| **Display** | LCD digital display |
| **Sealing** | Hermetically sealed from above |

| | |
|---|---|
| **Capacity** | 20 L |
| **Stir bar** | Octahedral stir bar |
| **Controller** | Microprocessor |
| **Motor power** | NA |
| **Power supply** | 220 to 240 V/50 to 60 Hz |
| **Control panel** | Rotating knobs |
| **PID parameters** | 2 sets |
| **Heating element** | Infrared heating element |
| **Memory function** | Stirring speed and setting temperature |
| **Top plate shape** | Round |
| **Heating capacity** | 800 W |
| **Safety temperature** | 50 to 500° C (adjustable) |
| **Temperature sensor** | PT100 with PT100 sensor holder |
| **Top plate material** | Glass ceramic |
| **Chemical resistance** | Yes |
| **Corrosion resistance** | Yes |
| **Dimensions (W×D×H)** | 430×310×430 mm |
| **Stirring speed range** | 100 to 1200 rpm |
| **Top plate dimensions** | Φ135 mm |
| **Safety Protection system** | Overheating, Flashing high temperature indicator, warning for hurt by touch |
| **High temperature protection** | 50℃ ( Factory set value 50℃ ,10 to 50℃ adjustable) |
| **Interface and communication** | USB; USB (COM) |
| **Temperature stability (with PT100)** | ±2° C |
| **Maximum set temperature (Hot plate)** | 450° C (continuous) |
| **Maximum set temperature (with PT100)** | 300° C |

# Hotplate Magnetic Stirrer LHST-A21

Hotplate Magnetic Stirrer LD-LHST-A21 is a compact, tabletop device having magnetic stirrer with heating function, offers rotating speed of 100 to 1500 rpm. Designed with round glass ceramic top plate and octahedral stir bar provides maximum set temperature of 450˚ C. With USB port interface and timer, memory function for stirring speed and setting temperature, and high safety protection this device offers 20 L of capacity. Equipped with advanced microprocessor controlling system with 3 PID parameters set, infrared heating element, PT100 temperature sensor and PT100 sensor holder provides quick heating with stable temperature. LCD digital display with knob control, corrosion resistant sealed casing with isolated critical parts design and drainage above control boards ensures convenient and hassle-free usage.

## Features:

- Advanced microprocessor controlling system with PID parameters set, PT100 temperature sensor and PT100 sensor holder
- Octahedral Stir Bar for efficient stirring
- Accurate solution temperature in general range
- Bright and clear LCD digital display with memory of the last working parameters
- Ceramic glass top plate with infrared heating element
- Sealed outer shell and isolated critical parts design with drainage above control board
- Knob control with high safety protection
- Memory function for stirring speed and setting temperature
- Corrosion and chemical resistant
- Rapid heating speed with safety temperature protection system
- USB interface with communication
- Reliable, stable and hermetically sealed guarantees long, hassle free and convenient usage

## Applications:

Hotplate magnetic stirrers are used for organic synthesis, extraction, analysis of oil products, pH-measurements, dialysis, soil suspending, preparing buffer solutions etc. across the field of chemical engineering, microbiology, pharmaceuticals, geology, scientific research, biotechnology, biochemistry etc.

## Specifications:

| Model no. | LD-LHST-A21 |
|---|---|
| **Drain** | Yes (above control board) |
| **Motor** | DC brushless motor |
| **Timer** | 1 to 1999/min; continuous |
| **Weight** | 8 kg |
| **Display** | LCD digital display |
| **Sealing** | Hermetically sealed from above |

| | |
|---|---|
| **Capacity** | 20 L |
| **Stir bar** | Octahedral stir bar |
| **Controller** | Microprocessor |
| **Motor power** | 12 W |
| **Power supply** | 221 to 240 V/50 to 60 Hz |
| **Control panel** | Rotating knobs |
| **PID parameters** | 3 sets |
| **Heating element** | Infrared heating element |
| **Memory function** | Stirring speed and setting temperature |
| **Top plate shape** | Round |
| **Heating capacity** | 800 W |
| **Safety temperature** | 50 to 500 °C (adjustable) |
| **Temperature sensor** | PT100 with PT100 sensor holder |
| **Top plate material** | Glass ceramic |
| **Chemical resistance** | Yes |
| **Corrosion resistance** | Yes |
| **Dimensions (W×D×H)** | 460×340×240 cm |
| **Stirring speed range** | 100 to 1500 rpm |
| **Top plate dimensions** | Φ135 mm |
| **Safety Protection system** | Overheating, Flashing high temperature indicator, warning for hurt by touch |
| **High temperature protection** | 10° to 50 °C (adjustable) |
| **Interface and communication** | USB; USB (COM) |
| **Temperature stability (with PT100)** | ±2 °C |
| **Maximum set temperature (Hot plate)** | 450 °C (continuous) |
| **Maximum set temperature (with PT100)** | 300 °C |

# Hotplate Magnetic Stirrer LHST-A23

LD-LHST-A23 is a reliable and efficient hotplate magnetic stirrer designed for precise laboratory mixing and heating. Featuring a robust glass ceramic work surface, this unit offers excellent resistance to corrosion and high thermal conductivity for efficient energy transfer. With LCD digital display it ensures clear visualization of temperature and stirring speed, making it an ideal tool for accurate and safe experimental workflows.

## Features:

- Equipped with a brushless DC motor for quiet, maintenance-free operation
- Includes digital speed control up to 1500 rpm for precise stirring
- Offers dual LCD display for clear speed and temperature monitoring
- Supports external temperature control via temperature sensor
- Integrated with HOT warning indicator when surface exceeds 50°C, even when off
- Designed with IP21-rated enclosure for basic protection from dust and condensation

## Applications:

Hotplate magnetic stirrers are used for organic synthesis, extraction, analysis of oil products, pH-measurements, dialysis, soil suspending, preparing buffer solutions etc. across the field of chemical engineering, microbiology, pharmaceuticals, geology, scientific research etc.

## Specifications:

| Model no. | LD-LHST-A23 |
|---|---|
| **Power** | 1050 W |
| **Weight** | 5.3 kg |
| **Capacity** | 20 L |
| **Speed Range** | 100 - 1500 rpm, resolution ±1 rpm |
| **Power Supply** | 100-120 / 200-240 V; 50/60 Hz |
| **Data Connector** | RS232 |
| **Heating Output** | 1000 W |
| **Protection Class** | IP21 |
| **Max. Magnetic Bar** | 80 mm |
| **Motor Rating Input** | 18 W |
| **Motor Rating Output** | 10 W |
| **Warning Temperature** | 50 °C |
| **Dimension (W x D x H)** | 215×360×112 mm |
| **Overheating Protection** | 580 °C |

| | |
|---|---|
| **Heating Temperature Range** | RT~550 °C, increment 1 °C |
| **Temperature Sensor Accuracy** | PT1000 (accuracy ±0.2) |
| **Temperature Control Accuracy** | ±1 °C (<100 °C), ±1% (>100 °C) |
| **Temperature Display Accuracy** | ±0.1 °C |
| **Work Plate Dimension (W x D)** | 184 x 184 mm (7 inch) |
| **Permissible ambient temperature and humidity** | 5-40 °C, 80% RH |

# Hotplate Magnetic Stirrer LHST-A12

Hot Plate Magnetic Stirrer LD-LHST-A12 can efficiently stir up to 5 L of liquid with a speed range of 0 to 1600 rpm. It simultaneously allows heating of the liquid up to 380℃. The stirrer has a strong magnetic field to keep the magnetic stirring bar intact. Its ceramic panel offers excellent chemical resistance, allowing for safe and even heating of liquids. Our stirrer provides efficient stirring and heating of large liquid solutions.

## Features:

- Temperature knob and speed knob control
- High temperature range
- Wide speed range
- Over temperature protection function
- Durable design

## Applications:

Our Hot Plate Magnetic Stirrer LD-LHST-A12 is ideal for research labs, pharmaceutical industries, and educational institutes.

## Specifications:

| Model no. | LD-LHST-A12 |
|---|---|
| **Speed** | 0 to 1600 rpm |
| **Plate Size** | 190 × 190 mm |
| **Gross Weight** | 5.2 Kg |
| **Maximum Volume** | 5 L |
| **Plate Material** | Ceramic |
| **Temperature Range** | Room temperature to 380℃ |