



# Hotplate Magnetic Stirrer LD-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
Capacity	20 L
Top plate shape	Round
Top plate material	Glass ceramic
Top plate dimensions	Φ135 mm
High temperature protection	10 to 50° C (adjustable)
Maximum set temperature (Hot plate)	450 °C (continuous)
Maximum set temperature (with PT100)	300 °C
Safety temperature	50 to 500 °C (adjustable)
Temperature stability (with PT100)	±2 °C
Stirring speed range	100 to 1500 rpm
Timer	1 to 1999/min; continuous
Stir bar	Octahedral stir bar
Motor	DC brushless motor
Heating element	Infrared heating element
Motor power	12 W
Heating capacity	800 W
Display	LCD digital display
Controller	Microprocessor
PID parameters	3 sets
Temperature sensor	PT100 with PT100 sensor holder
Control panel	Rotating knobs
Memory function	Stirring speed and setting temperature
Safety Protection system	Overheating, Flashing high temperature indicator, warning for hurt by touch
Sealing	Hermetically sealed from above
Corrosion resistance	Yes
Chemical resistance	Yes
Drain	Yes (above control board)
Interface and communication	USB; USB (COM)

Power supply	220 to 240 V/50 to 60 Hz
Dimensions (W×D×H)	460×340×240 mm
Weight	8 kg

### **Standard Accessories**

- Octahedral stir bar
- PT100 Temperature sensor (Length: 170 mm; Diameter: 4 mm; Material: Stainless steel)
- Holder and clamp for PT100 temperature sensor