



# **HOTPLATE MAGNETIC STIRRER LHST-A20 AND LHST-A21**

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## **Hotplate Magnetic Stirrer LHST-A20**

Hotplate Magnetic Stirrer 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.

## **Hotplate Magnetic Stirrer LHST-A21**

Hotplate Magnetic Stirrer 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.

## SPECIFICATION

Model	LHST-A20	LHST-A21
Capacity	20 L	
Top plate shape	Round	
Top plate material	Glass ceramic	
Top plate dimensions	Φ135 mm	
High temperature protection	50°C ( Factory set value 50°C ,10 to 50°C adjustable)	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 1200 rpm	100 to 1500 rpm
Timer	1 to 1999/min; continuous	
Stir bar	Octahedral stir bar	
Motor	NA	DC brushless motor
Heating element	Infrared heating element	
Motor power	NA	12 W
Heating capacity	800 W	
Display	LCD digital display	
Controller	Microprocessor	
PID parameters	2 sets	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)	430×310×430 mm	460×340×240 cm
Weight	7.5 kg	8 kg

## STANDARD ACCESSORIES

Accessories no.	Accessories name
1	Octahedral stir bar
2	PT100 Temperature sensor (Length: 170 mm; Diameter: 4 mm; Material: Stainless steel)
3	Holder and clamp for PT100 temperature sensor