

# Hotplate Magnetic Stirrer

The hotplate stirrer (or hot plate stirrer or hot plate magnetic stirrer) is used for mixing and heating aqueous solutions for a great variety of chemical reactions such as synthesis. VELP hotplate stirrers are available in various models and combinations in both analog and digital configurations.

A hotplate magnetic stirrer works by using a rotating magnetic field to stir a liquid in a container. The hot plate heats the liquid to the desired temperature, while the stirrer ensures that the temperature is even throughout the solution.

**Safety:** Wear appropriate personal protective equipment (PPE), including lab coats, safety goggles, and gloves.

**Ventilation:** Work in a well-ventilated area or inside a fume hood when dealing with hazardous chemicals.

**Emergency shutdown:** Familiarize yourself with the emergency shutdown procedures for both the hotplate and the stirrer.

**Don't leave it unattended:** Don't let the vessel boil dry.

**Don't touch it:** Don't touch the heating surface, or other parts of the unit except the control knobs.

**Avoid spills:** Avoid spilling liquid on the base as it will damage the unit.

**Don't use near flammable vapors:** Avoid using the unit near flammable vapors or to heat flammable liquid.

**A hotplate magnetic stirrer is a laboratory tool used to mix and heat liquids for a variety of scientific applications, including:**

**Chemical reactions:** Used to mix and heat solutions for chemical reactions, such as synthesis

**Cell culture:** Used to mix and heat liquids for cell culture

**Microbiology:** Used to mix and heat liquids for microbiology

**Dissolving solids:** Used to dissolve solids

**Mixing reagents:** Used to mix reagents

**Preparing samples:** Used to prepare samples for analysis

## Features of LS-HS-2H/3H:

- Cast Aluminum/ Ss304 with surface spraying plate.
- Max. Temp.: 380°C, max. speed: 2000rpm.
- Heating and stirring can proceed simultaneously.
- Heating power and stirring speed is steplessly adjusted.

## Features of LS-HS-4H/4HC:

- Ceramic plate / SS 304.
- PT 100 sensor is standard for LS-HS-4H.
- With the adjustable rack and stirrer bar.
- Max. Temp.: 380°C, max. speed: 2000rpm.
- Heating and stirring can proceed simultaneously.
- Heating power and stirring speed is steplessly adjusted.
- Enclosed hot plate with flame protection, fast warm-up and durability.

## Specification :

Model	LS-HS-2H	LS-HS-3H	LS-HS-4H	LS-HS-4HC
Work Plate Size	120*120mm	170*170mm	190*190mm	
Plate Load(kg)	3	10		
Work Plate Material	Cast Aluminum with surface spraying		Ceramic	
Max. Stirring Capacity	2L	5L		
Speed Range	100~2000rpm		200~2000rpm	
Heating Temp	380°C			350 °C
Power Consumption	180W	500W	600W	
Power Supply	AC110/220V±10%, 50/60HZ			
Standard Accessory	Adjustable rack, stirrer bar; PT100 sensor (only for LS-HS-4HC)			
External Size(W*D*H) mm	200*120*90	265*185*190	320*190*125	
Package Size(W*D*H) mm	250*180*120	280*210*220	390*240*230	
Net Weight(kg)	1.9	2.2	5	
Gross Weight(kg)	3	3.4	6	

