

## Magnetic Mini-Stirrers HI 190M, HI 190MB, HI 200M



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Common stirrers are manufactured with steel and aluminum components. These units are often too large and heavy to fit in the limited space of a laboratory. HI 190M, HI 190MB and HI 200M are compact and lightweight, so that lack of laboratory bench space is no longer a concern. These stirrers incorporate electronic controls that allow the user to regulate the speed with greater precision. Often, in the lab, a sample is removed from the stirrer before reducing the speed. This would cause the motor of conventional equipment to accelerate until

it is destroyed. This does not pose a problem with the Hanna mini-stirrers. In fact the internal Speedsafe mechanism will ensure that the maximum speed is never exceeded.

HI 190M and HI 190MB come supplied with an ABS cover that will resist the harmful effects of chemicals that are accidentally spilled. The ABS-covered mini-stirrer is available in two versions: HI 190M operating at 110 or 220 VAC and HI 190MB at 12 VDC. This provides you with the flexibility to choose between field and lab models, as well as being able to use the HI 190MB for applications where a low input voltage is a must.

HI 200M is supplied with an AISI 316 stainless steel cover. This model is ideal for applications that create exothermic reactions.

- **Compact Size:** HI 190M, HI 190MB and HI 200M are housed in compact housings 120 x 120 x 45 mm (4.8 x 4.8 x 1.8 in) that require less bench space.
- **Chemical Resistance:** The ABS housing of HI 190M and HI 190MB resists most harmful chemicals in the lab. This means accidental spills will not destroy the equipment.
- **Safety:** An internal, electronic speed control device will limit the maximum speed to 1,000 rpm, even if the load is suddenly removed.

HI 190M, HI 190MB and HI 200M are supplied complete with a 25 mm (1 in) long (dia. 7 mm/0.3 in) Teflon® coated magnetic stir bar and instruction manual.

### Specifications

	HI 190M	HI 190MB	HI 200M
Maximum Stirring Capacity	1 Liter (0.26 Gallons)	1 Liter (0.26 Gallons)	1 Liter (0.26 Gallons)
Speed Range:			
Minimum	100 rpm	100 rpm	100 rpm
Maximum	800 to 1,000 rpm	800 to 1,000 rpm	800 to 1,000 rpm
Power Supply	HI 190M/D: 220/240 V, 50/60 Hz HI 190M/U: 110/115 V, 50/60 Hz	12 VDC	HI 200M/D: 220/240 V, 50/60 Hz HI 200M/U: 110/115 V, 50/60 Hz
Installation Category	II	II	II
Cover Material	ABS Plastic	ABS Plastic	AISI 316 Stainless Steel
Environment	0° to 50°C (32° to 122°F); RH 95%	0° to 50°C (32° to 122°F); RH 95%	0° to 50°C (32° to 122°F); RH 95%
Dimensions	120 x 120 x 45 mm (4.8 x 4.8 x 1.8 in)	120 x 120 x 45 mm (4.8 x 4.8 x 1.8 in)	120 x 120 x 45 mm (4.8 x 4.8 x 1.8 in)
Weight	640 g (1.4 lbs)	610 g (1.3 lbs)	710 g (1.6 lbs)

Catalog No.	\$	Product
BS4 72-1973		HI 190M/D ABS Cover, 220/240 V
BS4 72-1972		HI 190M/U ABS Cover, 110/115 V
BS4 72-1974		HI 190MB ABS Cover, 12 VDC
BS4 72-1976		HI 200M/D Stainless Steel Cover, 220/240 V
BS4 72-1975		HI 200M/U Stainless Steel Cover, 110/115 V
BS4 72-1958		110 VAC, 12 VDC Adapter (HI 190MB Only)
BS4 72-1959		220 VAC, 12 VDC Adapter (HI 190MB Only)
BS4 72-1977		Micro stir Bar, 10 pcs.

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