

HI 190M • HI 190MB • HI 200M

Magnetic Stirrers

Magnetic Mini-Stirrers

Speedsafe

Features ...

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. The **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 220VAC and **HI 190MB** at 12VDC. 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.



... and Benefits

- Compact Size**

The housing for the **HI 190M**, **HI 190MB** and **HI 200M** are compact (120 x 120 x 45 mm) and require less bench space.

- Safety**

An internal, electronic speed control device will limit the maximum speed to 1000 rpm, even if the load is suddenly removed.

- Chemical Resistance**

The ABS housing of the **HI 190M** and **HI 190MB** resists most harmful chemicals in the lab saving your equipment from accidental spills.

Specifications	HI 190M	HI 190MB	HI 200M
Maximum Stirring Capacity		1 liter (0.26 gallons)	
Speed Range	Min. Max.	100 rpm 1000 rpm	
Power Supply	HI 190M/D: 220/240V, 50/60Hz HI 190M/U: 110/115V, 50/60Hz	12VDC	HI 200M/D: 220/240V, 50/60Hz HI 200M/U: 110/115V, 50/60Hz
Installation Category		II	
Cover Material	ABS plastic	ABS plastic	AISI 316 Stainless Steel
Environment	0 to 50°C (32 to 122°F); RH 95% non-condensing		
Dimensions	120 x 120 x 45 mm (4.8 x 4.8 x 1.8")		
Weight	640 g (1.4 lb.)	610 g (1.3 lb.)	710 g (1.6 lb.)

Ordering Information

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

Accessories

HI 710005 110VAC-12VDC adapter (**HI 190MB** only)
HI 710006 220VAC-12VDC adapter (**HI 190MB** only)
HI 731319 Micro stir bar (10 pcs)