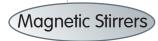
# HI 190M • HI 190MB • HI 200M



# Magnetic Mini-Stirrers

## 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 ministirrer 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.		100 rpm	
	Max.		1000 rpm	
Power Supply		HI 190M/D: 220/240V, 50/60Hz	12VDC	HI 200M/D: 220/240V, 50/60Hz
		HI 190M/U: 110/115V, 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.

HI 190M/D ABS cover, 220/240V HI 190M/U ABS cover, 110/115V

HI 190MB ABS cover, 12VDC

HI 200M/D Stainless steel cover, 220/240V HI 200M/U Stainless steel cover, 110/115V

