

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



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 ac-

celerate 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.

- **Compact Size:** HI 190M, HI 190MB and HI 200M are housed in compact housings 120 x 120 x 45 mm (4.7 x 4.7 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 1000 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:			
Min.	100 rpm	100 rpm	100 rpm
Max.	800 to 1000 rpm	800 to 1000 rpm	800 to 1000 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
CGS 8210.41	HI 190M/D ABS cover, 220/240 V
CGS 8211.41	HI 190M/U ABS cover, 110/115 V
CGS 8212.41	HI 190MB ABS cover, 12 VDC
CGS 8213.41	HI 200M/D Stainless steel cover, 220/240 V
CGS 8214.41	HI 200M/U Stainless steel cover, 110/115 V
CGS 8215.41	110 VAC - 12 VDC adapter
CGS 8216.41	220 VAC - 12 VDC adapter
CGS 8217.41	Micro stir bar, 10 pcs.