



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 instruments 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.

**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	110/115 Vac or 230/240 Vac, 50/60Hz	12 Vdc	110/115 Vac or 230/240 Vac, 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 max 95%	
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.)

**Accessories**

HI 710005	115 Vac-12 Vdc adapter (HI 190MB only)	HI 731319	Micro stir bar (10 pcs)
HI 710006	230 Vac-12 Vdc adapter (HI 190MB only)		

**Ordering Information**

- HI 190M-1 mini-stirrer with ABS cover, 110/115 Vac
- HI 190M-2 mini-stirrer with ABS cover, 230/240 Vac
- HI 190MB mini-stirrer with ABS cover, 12 Vdc
- HI 200M-1 stainless steel cover, 100/115 Vac
- HI 200M-2 stainless steel cover, 100/115 Vac

HI 190M, HI 190MB and HI 200M are supplied complete with micro stir bar and instructions.