

## Our Most Popular Magnetic Mini-Stirrers

- **Compact size**
  - The compact size of these stirrers allow users to maximize bench space for efficiency and safety
- **Safety**
  - Speedsafe™ limits the maximum speed to 1000 rpm even if a load is suddenly removed
- **Built to last**
  - The ABS housing of HI190M and HI190 M-0 resists most harmful chemicals in the lab

The HI190M, HI190M-0 and HI200M 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 Hanna mini-stirrers, as the Speedsafe™ mechanism ensures that the maximum speed is never exceeded.

HI190M and HI190M-0 come supplied with an ABS cover that will resist the harmful effects of chemicals that are accidentally spilled.

HI200M has an AISI 316 stainless steel cover. This model is ideal for applications that create exothermic reactions.



AISI 316 Stainless Steel

**Speedsafe™**

ABS Plastic

Specifications	HI190M	HI190M-0	HI200M
Maximum Stirring Capacity	1 liter (0.26 gallons)	1 liter (0.26 gallons)	1 liter (0.26 gallons)
Min. Speed Range	100 rpm	100 rpm	100 rpm
Max. Speed Range	1000 rpm	1000 rpm	1000 rpm
Power Supply	110/115 VAC or 220/240 VAC, 50/60Hz	12 VDC	110/115 VAC or 230/240 VAC, 50/60Hz
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 max 95%	0 to 50°C (32 to 122°F); RH max 95%	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")	120 x 120 x 45 mm (4.8 x 4.8 x 1.8")	120 x 120 x 45 mm (4.8 x 4.8 x 1.8")
Weight	640 g (1.4 lbs.)	610 g (1.3 lbs.)	710 g (1.6 lbs.)
<b>Ordering Information</b>	<b>HI190M-1</b> (110/115 Vac), <b>HI190M-2</b> (230/240 Vac), <b>HI190M-0</b> (12 VDC), <b>HI200M-1</b> (110/115 Vac) and <b>HI200M-2</b> (230/240 Vac) mini-stirrers are supplied with micro stir bar and instructions.		
<b>Accessories</b>	<b>HI731319</b> Magnetic micro stir bar (10)		

HI181

# Compact Magnetic Mini-Stirrers

with Electrode Holder

- **Electrode holder**
  - The HI181 series features an electrode holder that fits into the base.
- **Round edge**
- **Dynamic design**
  - Easy to handle, these lightweight and compact stirrers need little room and are quickly recognizable on busy benches
- **Built to last**
  - Chemical resistant housing resists damage by accidental falls

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. Hanna HI181 series is compact, lightweight and inexpensive.

Often, in the lab, a sample is removed from a stirrer before reducing the speed. Normally, this would cause the motor to accelerate until it is destroyed. Hanna stirrers incorporate electronic controls that allow the user to regulate the speed with greater precision. In addition to speed control, the Speedsafe™ mechanism will assure that the maximum speed is never exceeded. HI181 mini-stirrers are available in eleven colors. The various colors can allow easy sample identification at a distance.

*Speedsafe™*



## 11 colors to choose from



HI181 - Black



HI181W - Arctic White



HI181F - Blue



HI181K - Orange



HI181J - Charcoal



HI181I - Ivory



HI181C - Glacier Blue



HI181A - Yellow



HI181M - Moss Green



HI181E - Green



HI181L - Lavender

### Specifications

### HI181

Maximum Stirring Capacity	1 liter (0.26 gallons)
Min. Speed Range	100 rpm
Max. Speed Range	1000 rpm
Power Supply	110/115 VAC or 220/240 VAC, 50/60 Hz
Installation Category	II
Cover Material	ABS plastic
Environment	0 to 50°C (32 to 122°F); RH max 95%
Dimensions	137 mm (dia) x 51 mm (h)
Weight	640 g (1.4 lbs.)

### Accessories

**HI731319** Magnetic micro stir bar (10)

### Ordering Information

All models include electrode holder, micro stir bar and instructions

<b>HI181-1</b>	Black mini-stirrer (115V)
<b>HI181-2</b>	Black mini-stirrer (230V)
<b>HI181W-1</b>	White mini-stirrer (115V)
<b>HI181W-2</b>	White mini-stirrer (230V)
<b>HI181F-1</b>	Blue mini-stirrer (115V)
<b>HI181F-2</b>	Blue mini-stirrer (230V)
<b>HI181F-3</b>	Blue mini-stirrer (AUS plug)
<b>HI181K-1</b>	Orange mini-stirrer (115V)
<b>HI181K-2</b>	Orange mini-stirrer (230V)
<b>HI181J-1</b>	Charcoal mini-stirrer (115V)
<b>HI181J-2</b>	Charcoal mini-stirrer (230V)
<b>HI181I-1</b>	Ivory mini-stirrer (115V)
<b>HI181I-2</b>	Ivory mini-stirrer (230V)
<b>HI181I/MB</b>	Ivory mini-stirrer (12 VDC)
<b>HI181C-1</b>	Glacier Blue mini-stirrer (115V)
<b>HI181C-2</b>	Glacier Blue mini-stirrer (230V)
<b>HI181A-1</b>	Yellow mini-stirrer (115V)
<b>HI181A-2</b>	Yellow mini-stirrer (230V)
<b>HI181M-1</b>	Moss Green mini-stirrer(115V)
<b>HI181M-2</b>	Moss Green mini-stirrer (230V)
<b>HI181E-1</b>	Green mini-stirrer(115V)
<b>HI181E-2</b>	Green mini-stirrer (230V)
<b>HI181L-1</b>	Lavender mini-stirrer(115V)
<b>HI181L-2</b>	Lavender mini-stirrer (230V)

HI180

# Compact Magnetic Mini-Stirrers



11 colors to choose from



HI180 - Black

HI180W - Arctic White

HI180F - Blue

HI180K - Orange



HI180J - Charcoal



HI180I - Ivory



HI180C - Glacier Blue



HI180A - Yellow



HI180M - Moss Green



HI180E - Green



HI180L - Lavender

## Specifications HI180

Maximum Stirring Capacity	1 liter (0.26 gallons)
Min. Speed Range	100 rpm
Max. Speed Range	1000 rpm
Power Supply	110/115 VAC or 220/240 VAC, 50/60 Hz
Installation Category	II
Cover Material	ABS plastic
Environment	0 to 50°C (32 to 122°F); RH max 95%
Dimensions	137 mm (dia) x 51 mm (h)
Weight	640 g (1.4 lbs.)
<b>Accessories</b>	<b>HI731319</b> Magnetic micro stir bar (10)

- Round edge
- Dynamic design
  - Easy to handle, these lightweight and compact stirrers need little room and are quickly recognizable on busy benches
- Built to last
  - Chemical resistant housing resists damage by accidental falls

Hanna HI180 series is compact, lightweight and inexpensive.

Often, in the lab, a sample is removed from a stirrer before reducing the speed. Normally, this would cause the motor to accelerate until it is destroyed. Hanna stirrers incorporate electronic controls that allow the user to regulate the speed with greater precision. In addition to speed control, the Speedsafe™ mechanism will assure that the maximum speed is never exceeded. HI180 mini-stirrers are available in eleven colors. The various colors can allow easy sample identification at a distance.

## Ordering Information

All models are supplied with micro stir bar and instructions

<b>HI180-1</b>	Black mini-stirrer (115V)
<b>HI180-2</b>	Black mini-stirrer (230V)
<b>HI180W-1</b>	White mini-stirrer (115V)
<b>HI180W-2</b>	White mini-stirrer (230V)
<b>HI180F-1</b>	Blue mini-stirrer (115V)
<b>HI180F-2</b>	Blue mini-stirrer (230V)
<b>HI180F-3</b>	Blue mini-stirrer (AUS plug)
<b>HI180K-1</b>	Orange mini-stirrer (115V)
<b>HI180K-2</b>	Orange mini-stirrer (230V)
<b>HI180J-1</b>	Charcoal mini-stirrer (115V)
<b>HI180J-2</b>	Charcoal mini-stirrer (230V)
<b>HI180I-1</b>	Ivory mini-stirrer (115V)
<b>HI180I-2</b>	Ivory mini-stirrer (230V)
<b>HI180I/MB</b>	Ivory mini-stirrer (12 VDC)
<b>HI180C-1</b>	Glacier Blue mini-stirrer (115V)
<b>HI180C-2</b>	Glacier Blue mini-stirrer (230V)
<b>HI180A-1</b>	Yellow mini-stirrer (115V)
<b>HI180A-2</b>	Yellow mini-stirrer (230V)
<b>HI180M-1</b>	Moss Green mini-stirrer (115V)
<b>HI180M-2</b>	Moss Green mini-stirrer (230V)
<b>HI180E-1</b>	Green mini-stirrer (115V)
<b>HI180E-2</b>	Green mini-stirrer (230V)
<b>HI180L-1</b>	Lavender mini-stirrer (115V)
<b>HI180L-2</b>	Lavender mini-stirrer (230V)