

Two Speed Magnetic Stirrers with Tachometer, HI 303N, HI 313N



QC stations and labs must be able to repeat tests and processes. In order to do this, the specifications must be clear at all times. When stirring a solution, the RPMs are a very crucial factor. Without a tachometer, there is no way of knowing the exact RPMs and therefore no way of repeating the process.

HI 303N and HI313N solve this problem by incorporating an LCD tachometer. These stirrers also allow precise stirring repeatability by using two separate ranges.

In each range, the speed can be fine tuned for exacting accuracy. This assures maximum repeatability in experiments and processing for laboratory as well as production use.

In addition to the tachometer and speed control, a limiter will assure that the maximum speed will never be exceeded. Often, a sample is removed from the stirrer before reducing the speed (Speedsafe). This may cause the motor to accelerate until it is destroyed. Hanna stirrers incorporate a VCO device that will stop the motor from accelerating as soon as the load is removed.

In addition to these features, HI 313N also has an automatic feedback feature. The motor is electronically controlled to maintain the chosen speed as the load changes. If the viscosity or the level (fluid weight) increases or decreases, the circuitry will adjust the output power.

- **Built-in Tachometer:** An LCD displays the RPMs in the range of 0 to 1000. For safety purposes, an internal, electronic speed control device will limit the maximum speed to 1000 RPMs, even if the load is suddenly removed.
- **Dual-Range:** These stirrers have two complete ranges for extreme accuracy and process control.
- **Automatic Feedback:** HI 313N includes an exclusive device that will maintain a constant speed as the load varies (due to increased or decreased viscosity or volume).
- **Chemical Resistance:** The AISI 316 stainless steel cover offers excellent resistance to most of the harmful chemicals used in industry and laboratories today.

Specifications		
	HI 303N	HI 313N
Maximum Stirring Capacity	2.5 liters (0.66 gallons)	5 liters (1.3 gallons)
Speed Range:		
Low	100 to 500 rpm	100 to 500 rpm
High	100 to 1000 rpm	100 to 1000 rpm
Tachometer	0 to 1000 rpm	
Auto-Feedback	Not applicable	Standard
Power Supply	HI303N/D: 220/240 V, 50/60 Hz HI303N/U: 110/115 V, 50/60 Hz	HI313N/D: 220/240 V, 50/60 Hz HI313N/U: 110/115 V, 50/60 Hz
Installation Category	II	II
Cover Material	AISI 316 Stainless Steel	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%
Dimensions	180 x 180 x 70 mm (7.1 x 7.1 x 2.8 in)	180 x 180 x 70 mm (7.1 x 7.1 x 2.8 in)
Weight	1.6 kg (3.6 lbs)	1.6 kg (3.6 lbs)

Catalog No.	Product
CGS 8233.41	HI 303N/D Stainless Steel Cover, 220/240V
CGS 8234.41	HI 303N/U Stainless Steel Cover, 110/115V
CGS 8235.41	HI 313N/D Stainless Steel Cover, 220/240V
CGS 8236.41	HI 313N/U Stainless Steel Cover, 110/115V
CGS 8232.41	Standard Stir Bar, 10 pcs.