

Auto-Reverse Magnetic Stirrers with Tachometer, HI 304N, HI 314N



When stirring a solution, to work with a constant speed (Revolutions Per Minute) is an important factor in ensuring that the best repeatability in tests and processes is achieved. Without a tachometer, there is no way of knowing the RPMs. HI 304N and HI 314N are heavy-duty stirrers with a built-in tachometer. It is often desirable to stir in two directions in order to achieve maximum homogeneity. An advanced circuit allows HI 304N and HI 314N to reverse the direction of the stir at a user selected interval. The interval can be adjusted from 30 seconds up to 3

minutes. In addition to precision speed control, a limiter will also assure that the maximum speed will never be exceeded (Speedsafe). Often, a sample is removed from the stirrer before the user reduces the speed with ordinary stirrers. This can 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, HI314N 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.
- **Auto-Reverse:** These stirrers will change direction at a user selected interval adjustable from 30 seconds to 3 minutes.
- **Automatic Feedback:** HI 314N 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 assures excellent protection from most harmful chemicals in labs and industry today.

HI 304N and HI 314N are supplied complete with a 50 mm (2 in) long (dia. 7 mm/0.3 in) Teflon® coated magnetic stir bar and instruction manual.

Specifications		
	HI 304N	HI 314N
Maximum Stirring Capacity	2.5 liters (0.66 gallons)	5 liters (1.3 gallons)
Speed Range:		
Min.	100 rpm	100 rpm
Max.	800 to 1000 rpm	800 to 1000 rpm
Tachometer	4-digit LCD	4-digit LCD
Auto-Feedback	Not applicable	Standard
Power Supply	HI304N/D: 220/240V, 50/60Hz HI304N/U: 110/115V, 50/60Hz	HI314N/D: 220/240 V, 50/60 Hz HI314N/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 8237.41	HI 304N/D Stainless Steel Cover, 220/240 V
CGS 8238.41	HI 304N/U Stainless Steel Cover, 110/115 V
CGS 8239.41	HI 314N/D Stainless Steel Cover, 220/240 V
CGS 8240.41	HI 314N/U Stainless Steel Cover, 110/115 V
CGS 8227.41	Standard Stir Bar, 10 pcs.