

# GUARDIAN™5000

**Hotplate Stirrers** 



## Reliable Hotplate Stirrers with Exceptional Safety Features for Everyday Use

OHAUS Guardian 5000™ Hotplates Stirrers are designed for safety and simplicity in all research, academia and industrial applications. The design ensures proper mixing and temperature control of the top plate or your sample when using the optional temperature probe. Heating models include a Single Point Calibration feature for multiple setpoints. Select from five models with three plate sizes for your everyday heating and stirring applications.

### **Unique Features:**

- SafetyHeat™ System Protects the Lab
- An industry-leading early detection system that uses two independent safety controls to continuously monitor the electronics and shut off heating before an overtemperature condition occurs.
- Powerful, Consistent Stirring Performance
- Precise stirring from 60 to 1600 rpm is made possible by the design of a powerful motor, strong magnet and software controlled ramp rate, ensuring secure magnetic coupling for viscous applications.
- Easy to Read LCD Display With Everything You Need to Know

  The bright LCD display includes large temperature and speed settings, intuitive icons and
  a prominent hot top indicator all designed to quickly and easily monitor performance from
  across the lab.
- Designed for Durability and Reliability with the Exclusive SmartHousing™

  The SmartHousing™ is chemical resistant with an innovative, easy-to-clean design that channels spills away from internal components and the angled control panel.

# **GUARDIAN**<sup>™</sup>**5000** Hotplate Stirrers



Model	e-G51ST07R	e-G51HP07C	e-G51HS07C	e-G51HS10C	e-G51HSRDM			
Function	Stirring	Heating	Heating and Stirring					
Top Plate Size		7 x 7 in		10 x 10 in	5.3 in diameter			
	17.8	8 x 17.8 cm		25.4 x 25.4 cm	13.5 cm diameter			
Speed Range	60 rpm to 1600 rpm		60 rpm to 1600 rpm					
Speed Stability	+/-2 %		+/-2 %					
Temperature Range		А	Ambient + 5 °C – 500 °C Ambient + 5 °C – 380 °C					
Temperature Stability*		+/-3 % Plate, below 100 °C +/-2 °C and +/-1 % Probe, below 100 °C +/-1 °C						
Temperature Calibration		3 Plate and 3 Probe						
Control	Digital							
Display	Backlit LCD for Speed	Backlit LCD for Temperature	Backlit LCD for Temperature and Speed					
Capacity	эрсси	15 L		18 L	20 L			
Top Plate Material	Resin		Ceram		Aluminum			
Dimensions (H x L x W)		12.2 x 8.8 in 30.9 x 22.3 cm		4.8 x 16.3 x 11.3 in 12.2 x 41.5 x 28.6 cm	5.0 x 10.5 x 6.8 in 12.6 x 26.7 x 17.3 cm			
Net Weight	5.7	lb. / 2.6 kg		11.5 lb. / 5.2 kg	5.7 lb. / 2.6 kg			
Power	120V, 1.0A, 50/60Hz 230V, 0.5A, 50/60Hz	120V, 10A, 50/60Hz 230V, 6.0A, 50/60Hz		120V, 11.2A, 50/60Hz 230V, 7A, 50/60Hz	120V, 8.3A, 50/60Hz 230V, 4.6A, 50/60Hz			
Power Consumption	108W (120V) 104W (230V)	1080W (120V) 1242 (230V)		1210W (120V) 1449W (230V)	896W (120V) 952W (230V)			
Working Environment	41 °F – 104 °F, 80 % RH, non-condensing / 5 °C – 40 °C, 80 % RH, non-condensing							

<sup>\*</sup> Conditions permitting. Variations in temperature measurement process, vessel, ambient and sample will impact actual performance.

# **GUARDIAN**<sup>TM</sup>**5000** Hotplate Stirrers Accessories

Item No.	Description	e-G51ST07R	e-G51HP07C	e-G51HS07C	e-G51HS10C	e-G51HSRDM
30500570	Base Plate, 135 mm					•
30500571	Handles for Base Plate					
30500572	Sectional Block, 12 mm Vials					•
30500573	Sectional Block, 15 mm Vials					•
30500574	Sectional Block, 17 mm Vials					
30500575	Sectional Block, 21 mm Vials					
30500576	Sectional Block, 28 mm Vials					
30500577	Sectional Block, 12 mm Test Tubes					
30500578	Sectional Block, 16 mm Test Tubes					
30500579	Sectional Block, 20 mm Test Tubes					
30500580	Sectional Block, 25 mm Test Tubes					
30500581	Uni Block, 12 mm Vials					
30500582	Uni Block, 15 mm Vials					
30500583	Uni Block, 17 mm Vials					
30500584	Uni Block, 21 mm Vials					•
30500585	Uni Block, 28 mm Vials					•
30500586	Uni Block, 12 mm Test Tubes					•
30500587	Uni Block, 16 mm Test Tubes					•
30500588	Uni Block, 20 mm Test Tubes					•
30500589	Uni Block, 25 mm Test Tubes					•
30392233*	Clamp, Specialty, Rod, CLS-RODS					•
30500590	Temperature Probe, 20 cm S/S					•
30500591	Temperature Probe, 20 cm PTFE					•
30500592	Temperature Probe, 25 cm S/S		•			•
30500593	Temperature Probe, 25 cm PTFE					
30500594	In Use Cover Guardian, 7" x 7"					
30500595	In Use Cover Guardian, 10" x 10"					
30500596	In Use Cover Guardian, Round					
30500597	Vessel Clamp					
30500598	Stir Bar Retriever					
30392314	Clamp, Specialty, Column, CLS-COLMNSS					
30392315	Clamp, Specialty, Column, CLS-COLMNSM					
30392316	Clamp, Specialty, Column, CLS-COLMNSL					
30392317	Clamp, Specialty, Column, CLS-COLMNSX					
30392318	Clamp, Specialty, Nester, CLS-NESTXS					
30400145	Ultra Flex Support Kit					
30400146	Support Rod And Clamp Kit					
30400147	Spinbar, 2.5 cm PTFE					•
30400148	Spinbar, 3.8 cm PTFE					
30400149	Spinbar, 7 cm PTFE					•
30400150	Spinbar, 10 cm with Pivot Ring PTFE					

## **GUARDIAN**<sup>™</sup>**5000** Hotplate Stirrers

#### **Outline Dimensions**

## e-G51ST07R, e-G51HP07C and e-G51HS07C 8.8 in 12.2 in 223.5 mm 308.7 mm 4.8 in 121.92 mm e-G51HS10C 11.25 in 16.3 in 415.1 mm 285.75 mm 4.8 in 123 mm e-G51HSRDM 6.8 in 10.5 in 172.7 mm 267 mm 5.0 in 126.1 mm

## Other Features and Equipment

Green indicator lights when unit is heating and stirring, probe in use icon, Single Point Calibration icon, probe connection, IP21 Ingress Protection, polycarbonate front panel, control knobs, On/Off switch for heater disconnect, built-in support rod holder, audible alarm

## **Compliance**

- Product Safety: TÜV SÜD certified to CAN/CSA C22.2 61010-1; CAN/CSA C22.2 61010-2-010; CAN/CSA C22.2 61010-2-051; UL 61010-1; UL 61010-2-010; UL 61010-2-051
- Electromagnetic Compatibility: Canada ICES-003 Class A; FCC Part 15 Class A
- Compliance Mark: TÜV SÜD

The management system governing the manufacture of this product is ISO 9001:2015 certified.

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