

## **GUARDIAN™7000**

**Hotplate Stirrers** 



## Durable Hotplate Stirrers with Superior Safety Features and Intelligent Performance

OHAUS Guardian 7000 Hotplate Stirrers are designed with outstanding safety features and superior heating and mixing performance. The SmartHousing™ is chemical resistant with an innovative, easy-to-clean design that channels spills away from internal components and the angled glass control panel. The bright LCD display includes intuitive icons, temperature, speed and time settings - all designed to monitor performance from across the lab.

#### **Unique Features:**

- SmartPresence™ and SmartLink™ Technologies Ensure Supervised Operation
  Protect your lab with SmartPresence™ and SmartLink™ technologies. These exclusive features automatically shut off the heater if no one is detected after a user set "time out" period has passed.
- 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.
- Customized Performance for Precise Applications

  SmartHeat™ allows you to set the maximum temperature of the unit and SmartRate™ enables fast or slow temperature and speed ramp rates. The programming feature allows storage of 5 multi-step programs.

# **GUARDIAN™7000** Hotplate Stirrers



Model	e-G71HS07C	e-G71HS10C	e-G71HSRDM			
Function		Heating and Stirring				
Top Plate Size	17.8 x 17.8 cm	25.4 x 25.4 cm	13.5 cm diameter			
Speed Range		60 rpm to 1600 rpm				
Speed Stability	+/- 2 %					
Temperature Range	Ambient + 5	Ambient + 5 °C − 380 °C				
Temperature Stability*	+/- 1 % Plate, below 100 °C +/-1 °C and +/- 0.5 % Probe, below 100 °C +/-1 °C					
Temperature Accuracy*	Plate +/- 5 °C (after Single Point Calibration) and Probe +/- 0.5 °C (after Single Point Calibration)					
Temperature Calibration	Five Plate and Five Probe					
Timer	1 minute to 99 hours and 59 minutes					
Control	Digital					
Display	Custom Backlit LCD					
Communication	USB					
Capacity	15 L	18 L	20 L			
Top Plate Material	Ceramic		Aluminum			
Dimensions (H x L x W)	12.2 x 30.9 x 22.3 cm	12.2 x 41.5 x 28.6 cm	12.6 x 26.7 x 17.3 cm			
Net Weight	2.6 kg	5.2 kg	2.6 kg			
Power	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	1080 W (120V) 1242W (230V)	1210 W (120V) 1449 (230V)	896 W (120V) 952 (230V)			
Working Environment	5 °C – 40 °C, 80 % RH, non-condensing					
Accessories	Temperature Probe (Included)					

 $<sup>{\</sup>color{blue}^*} \textbf{ Conditions permitting. Variations in temperature measurement process, vessel, ambient and sample will impact actual performance.}\\$ 

<sup>\*\*</sup>The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by OHAUS is under license.

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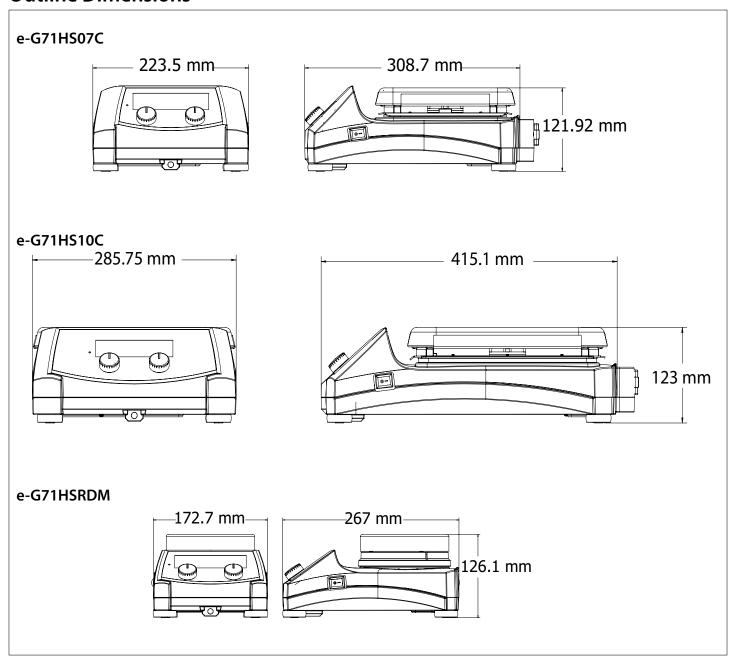
### **Accessories**

Item No.	Description	e-G71HS07C	e-G71HS10C	e-G71HSRDM
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, 17.8 x 17.8 cm	•		
30500595	In Use Cover Guardian, 25.4 x 25.4 cm		•	
30500596	In Use Cover Guardian, Round			•
30500597	Vessel Clamp	•	•	•
30500598	Stir Bar Retriever	•	•	•
30412537	Wireless Dongle MTICWD-200*	•	•	•
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	•	•	•

<sup>\*</sup>Wireless Dongle accessory required to enable SmartLink™ feature.

## GUARDIAN<sup>TM</sup>7000 Hotplate Stirrers

#### **Outline Dimensions**



### **Other Features and Equipment**

Icons for SmartRate<sup>™</sup>, SmartPresence<sup>™</sup>, SmartLink<sup>™</sup>, green indicator lights when unit is heating and stirring, probe in use, USB port for programming of repeat applications, IP21 Ingress Protection, probe connection, hardened glass front panel, control knobs, On/Off switch for heater disconnect, built-in support rod holder, easy-to-clean ceramic or aluminum tops

### **Compliance**

- Product Safety: IEC/EN 61010-1; IEC/EN 61010-2-010; IEC/EN 61010-2-051
- Electromagnetic Compatibility: IEC/EN 61326-1 Class A, Basic Environments
- Compliance Marks: CE; RCM; TÜV SÜD; WEEE

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\*ISO 9001:2015

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