

### GUARDIAN<sup>™</sup>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.

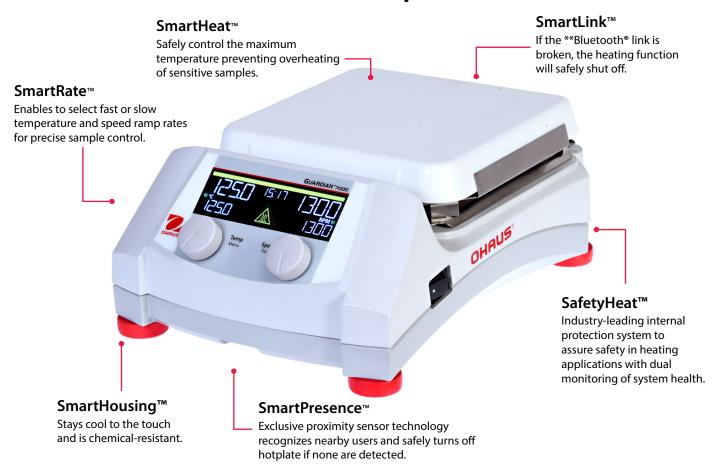
#### **Unique Features:**

- SmartPresence™ and SmartLink™ Technologies Ensure Supervised Operation
  Protect your lab with patented 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	7 x 7 in / 17.8 x 17.8 cm	10 x 10 in / 25.4 x 25.4 cm	5.3 in diameter / 13.5 cm		
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)	4.8 x 12.2 x 8.8 in 12.2 x 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, 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	41 °F – 104 °F, 80 % RH, non-condensing / 5 °C – 40 °C, 80 % RH, non-condensing				
Accessories	Temperature Probe and In Use Cover (Included)				

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

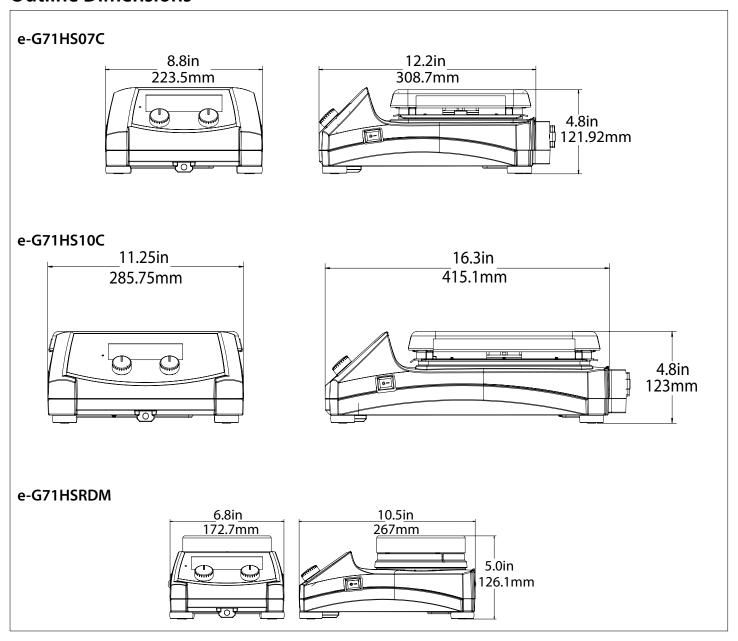
<sup>\*\*</sup>The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by OHAUS is under license.

# GUARDIAN<sup>TM</sup>7000 Hotplate Stirrers 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, 7" x 7"	•		
30500595	In Use Cover Guardian, 10" x 10"		•	
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	•		

## **GUARDIAN™7000** Hotplate Stirrers

#### **Outline Dimensions**



#### **Other Features and Equipment**

Icons for SmartRate™, SmartHeat™, SmartPresence™, SmartLink™, 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:** 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

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

