

# **GUARDIAN**<sup>TM</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<sup>™</sup> 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<sup>™</sup> and SmartLink<sup>™</sup> Technologies Ensure Supervised Operation Protect your lab with SmartPresence<sup>™</sup> and SmartLink<sup>™</sup> technologies. These exclusive features automatically shut off the heater if no one is detected after a user set "time out" period has passed.

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

# **GUARDIAN™7000** Hotplate Stirrers

#### SmartHeat™

Safely control and monitor the maximum temperature preventing overheating of sensitive samples.

#### SmartLink™

If the \*\*Bluetooth® link is broken, the heating function will safely shut off. Ohaus Wireless Dongle Accessory is required.

#### SmartRate™

Enables to select fast or slow temperature and speed ramp rates for precise sample control.

> SmartHousing<sup>™</sup> Stays cool to the touch and is chemical-resistant.

OHAUS

SmartPresence™ Exclusive proximity sensor technology recognizes nearby users and safely turns off heating

function if none are detected.

## SafetyHeat™

Industry-leading internal protection system to assure safety in heating applications with dual monitoring of system health.

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	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 and In Use Cover (Included)				

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

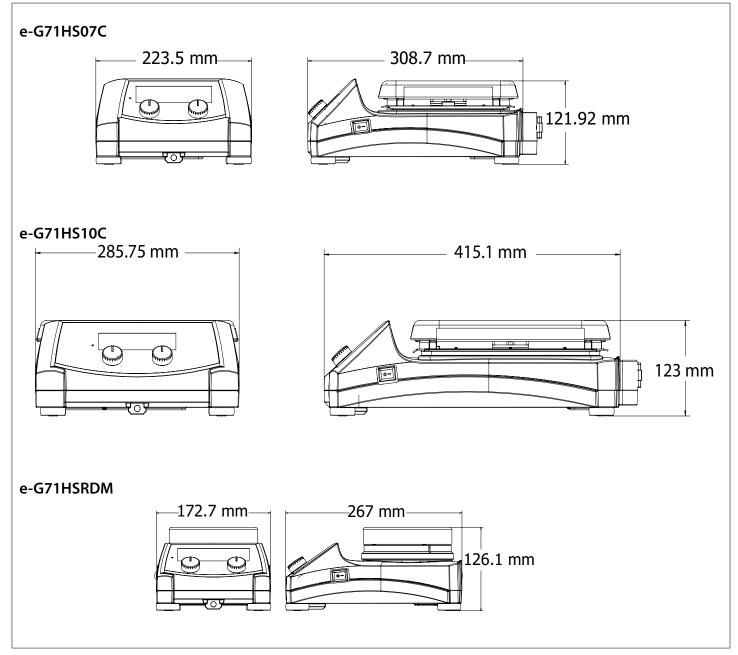
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# Accessories

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30400148         Spinbar, 3.8 cm PTFE         ●         ●         ●           30400149         Spinbar, 7 cm PTFE         ●         ●         ●         ●           30400150         Spinbar, 10 cm with Pivot Ring PTFE         ●         ●         ●         ●	30400146				
30400149Spinbar, 7 cm PTFE●●30400150Spinbar, 10 cm with Pivot Ring PTFE●●	30400147	Spinbar, 2.5 cm PTFE			
30400150 Spinbar, 10 cm with Pivot Ring PTFE	30400148	Spinbar, 3.8 cm PTFE	•	•	•
	30400149	Spinbar, 7 cm PTFE	•		•
*Wireless Dongle accessory required to enable SmartLink™ feature.			•	•	•

# **GUARDIAN™7000** Hotplate Stirrers

# **Outline Dimensions**



# **Other Features and Equipment**

Icons for SmartRate<sup>™</sup>, SmartHeat<sup>™</sup>, SmartPresence<sup>™</sup>, SmartLink<sup>™</sup>, green indicator lights when unit is heating and stirring, probe in use, USB port for Corporation 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 80776468\_D 20210414 © Copyright OHAUS (

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

SAP Literature #

