

GUARDIAN™

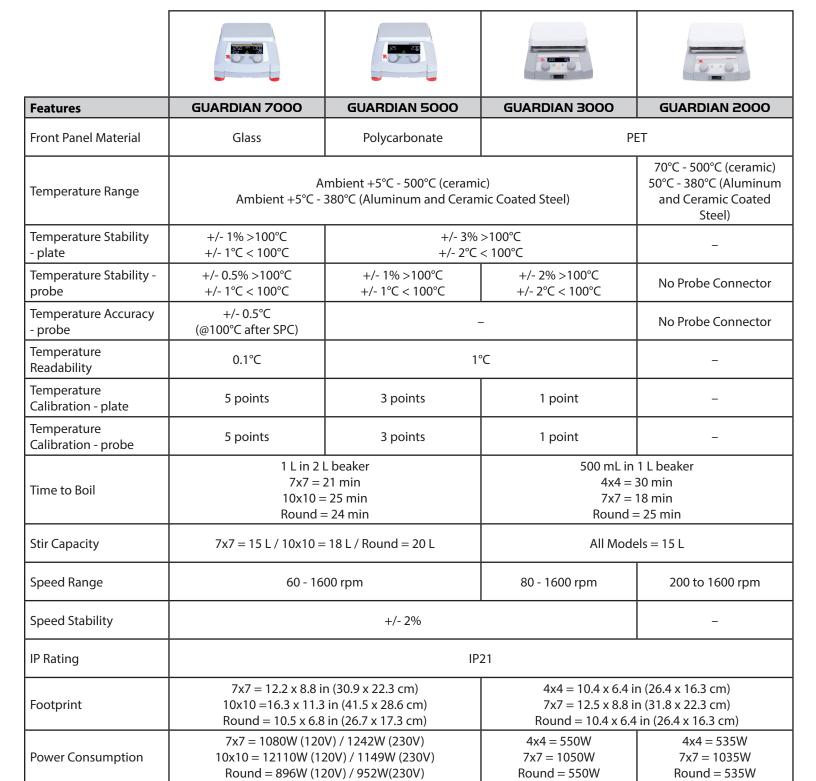
Hotplates & Stirrers Comparison Guide



The Guardian Hotplates & Stirrers Comparison Guide gives you an in-depth look into the differences between the 4 levels of the Guardian series. Use both the chart and frequently asked questions to find which Guardian works best for your lab.

GUARDIAN[™]Comparison Chart

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Features	GUARDIAN 7000	GUARDIAN 5000	GUARDIAN 3000	GUARDIAN 2000
Functions	Hotplate-Stirrer	Hotplate-Stirrer Hotplate Stirrer	Hotplate-Stirrer	Hotplate-Stirrer Hotplate Stirrer
Top Plate Dimensions	7x7 inch (17.8 x 17.8 cm) 10x10 inch (25.4 x 25.4 cm) Round 5.3 inch diameter (13.5 cm)		4x4 inch (10.2 x 10.2 cm) 7x7 inch (17.8 x 17.8 cm) Round 5.3 inch diameter (13.5 cm)	
Top Plate Material	Ceramic = 7x7 and 10x10 Aluminum = Round	Ceramic = 7x7 and 10x10 Resin = 7x7 Stirrer Aluminum = Round	Ceramic = 4x4 and 7x7 Ceramic Coated Steel = Round	Ceramic = 4x4 and 7x7 Resin = 4x4 and 7x7 Stirrer Ceramic Coated Steel = Round
Housing	SmartHousing™ Painted A		lluminum	
Control		Digital/Microprocessor		Analog
Hot Top Indicator	Triangle and Progress Bar	Triangle Only		
SmartLink™	Yes	_		
SmartPresence™	Yes	-		
SmartRate™	Yes - Temperature and Speed	-		
SmartHeat™	Yes	-		
SafetyHeat™	Yes		-	
Programmability	Yes		-	
LCD - Display	4.3 x 1.3 in (10.9 x 3.3 cm)		2.9 x 0.8 in (7.4 x 2.0 cm)	No Display
LCD - Timer	Yes		-	
LCD - Temperature	Set and Actual	Toggle to see Set and Actual		No Display
LCD - Speed	Set and Actual	Set		No Display



GUARDIAN™ Frequently Asked Questions

What is the difference between digital/microprocessor control vs. analog control?

- The Guardian 3000, 5000, 7000 models feature digital control where the microprocessor
 continuously monitors the heating and stirring functions to ensure consistent, accurate,
 repeatable results. The digital control of the heating models also allows these units
 to be used with the optional temperature probes to directly control the
 temperature of the sample.
- The economical Guardian 2000 models have simple, reliable analog control systems for heating and stirring. The position of the knob is controlling the power to the heater (temperature) and to the motor (speed) of the unit. By turning the knobs, the end user is adjusting the power to increase or decrease the temperature and speed to suit their application. Guardian 2000 analog models are intended for basic heating and stirring applications. If precise temperature and speed settings are required, we recommend a digital Guardian 3000, 5000 or 7000 model.

What type of Guardian top plate material best suits the lab? Ceramic, ceramic coated steel, aluminum, or resin

- Ceramic, ceramic-coated steel, aluminum and resin top plates are all suitable for lab use and each material has its benefits.
- Ceramic top plates are chemical-resistant and safer if working with corrosive chemicals that
 may splash onto the plate surface. They can withstand higher temperatures up to 500 °C and
 can be wiped clean.
- The white surface of a ceramic or ceramic-coated steel top plate is preferable for quantitative chemical analysis or other work where clear visibility of the sample color is required. The edges of a ceramic top plate may not be as hot as the center. This may not be suitable if uniform heating over the entire plate surface is needed for the application.
- Aluminum top plates offer more uniform temperature over the entire heating surface, and will
 not crack or chip, and will withstand accidental handling. Ceramic-coated steel also provides
 more uniform temperature across the heating surface with a white surface to easily view the
 sample. These materials have a lower maximum temperature than the full ceramic top plates.
- The durable, chemical-resistant resin top plate on stir only models provides a bright white surface for clear visibility. This long-lasting resin material will not chip or crack if mishandled.













GUARDIAN 7000

GUARDIAN 5000

GUARDIAN 3000

GUARDIAN 2000

OHAUS Corporation

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



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