



GUARDIAN™ 5000

Hotplate Stirrer Synthesis Kits & Accessories



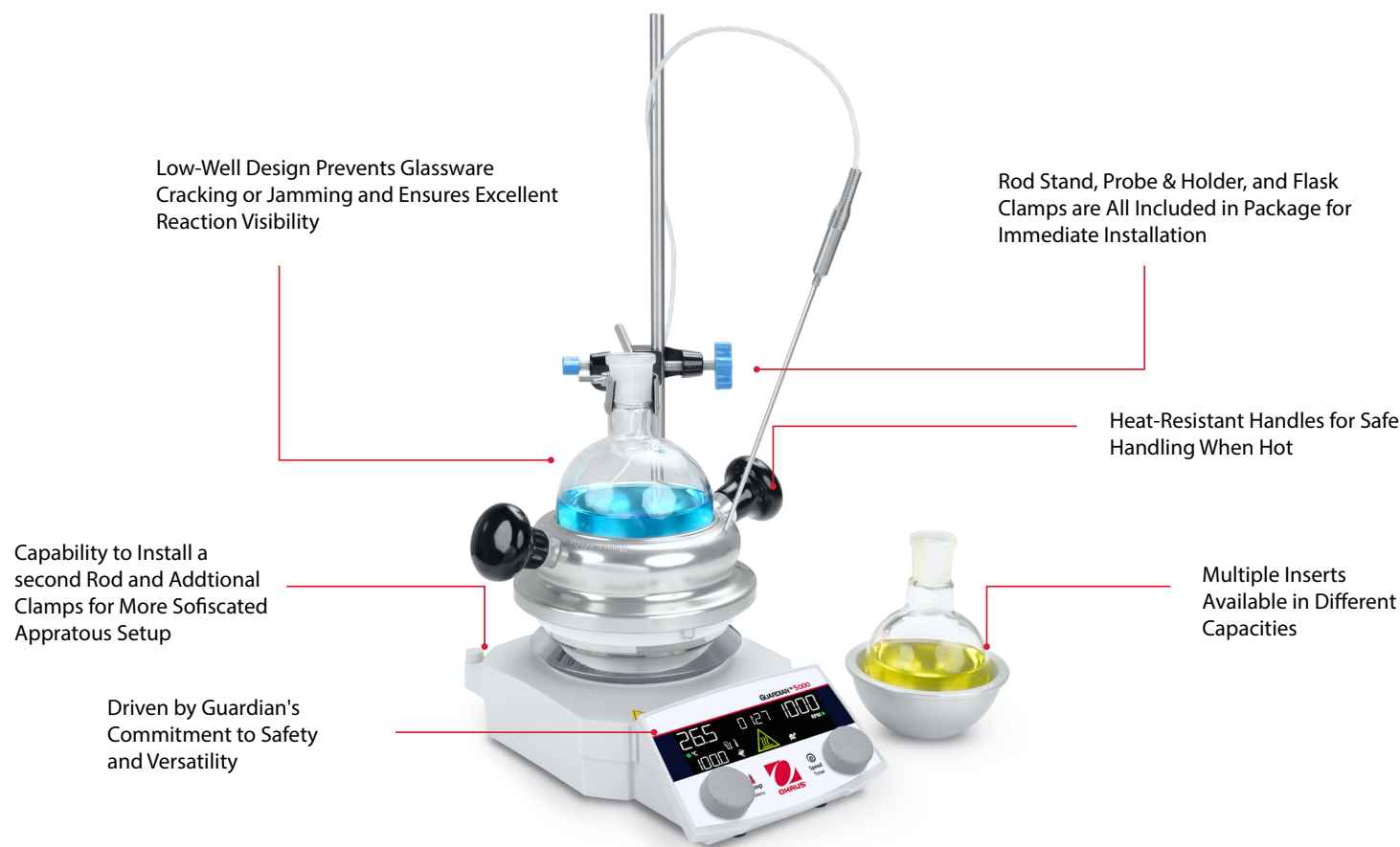
Safe, effortless, versatile, and green heating solutions for every round-bottom flask

The new Guardian™ 5000 synthesis kits are designed for safe, clean heating with standard round-bottom flasks. Our goal is to make it easier for chemists to assemble, replace, and maintain experimental setups. The range includes 3 basic kits, each featuring a Guardian™ 5000 hotplate stirrer and a base block compatible with 250 mL, 500 mL, or 1000 mL flasks. Additionally, 18 insert blocks accommodate smaller flasks down to 25 mL.

Unique Features:

- As a safer alternative to oil bath, the synthesis kits eliminate the risks of oil fires, spills, and toxic fume emissions. The base blocks include 2 heat-resistant handles for safe handling when hot.
- Compared to traditional heating mantles, the synthesis kits provide precise, uniform heating. Their low-well design prevents glassware cracking or jamming and ensures excellent reaction visibility.
- As flask sizes vary, the compact insert blocks help users save costs by avoiding multiple base blocks. Thanks to high-precision machining, inserting and removing them is as easy as building blocks.
- Benefit from a chemical and solvent-resistant anodized finish, the blocks are durable and easy to clean. No water waste since water baths are not used. Also, there is no need to dispose of used oil.

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Specifications

Guardian 5000 Synthesis Kit Model	e-G52HSRDA -K2A	e-G52HSRDA -K2B	e-G52HSRDA -K2C
Flask Capacity of Block Base within The Kit	250 mL	500 mL	1000 mL
Outer Diameter of Block Base with Handles	225 mm	245 mm	265 mm
Outer Diameter of Block Base without Handles	121.6 mm	141.4 mm	162.3 mm
Max. Flask Diameter	85.4 mm	105.5 mm	131.3 mm
Height of Block Base*	44.2 mm	54.6 mm	65.5 mm
Depth of Block Recess	36.8 mm	46.7 mm	62.2 mm
Flask Capacity of Optional Block Inserts	25, 50, 100 mL	25, 50, 100, 250 mL	25, 50, 100, 250, 500 mL
Block Material	6082 T651 Aluminum Alloy		
Block Weight	1.51 kg	2.05 kg	2.22 kg
Block Working Temperature Limit	300 °C		
Temperature Probe within The Kit	30500590 Stainless Steel Probe, PT1000 (Class A), -40 – 400 °C		
Probe Holder within The Kit	30973298 (a stand rod, a double clamp, and a probe holding arm)		
Flask Clamp within The Kit	Stainless Steel, Grip Range 9.5–50 mm, Arm Length 19 cm, Total Length 28 cm (and an attached double clamp)		
Temperature Range**	Ambient + 5 °C – 360 °C		
Temperature Increment & Readability	0.5 °C		
Heating Power	600 W at 120 V / 656 W at 230 V		
Speed Range	50 – 1800 rpm		
Electrical (50/60 Hz)	100 – 120 V, 8 A / 220 – 240 V, 4 A		

* The feet at the bottom of the block bases are not included.

** The set temperature range of the hotplate stirrer. Actual achievable maximum temperature is influenced by the application conditions.

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List of Optional Block Inserts Item Numbers

	Block Inserts	Fits Block Base of e-G52HSRDA -K2A	Fits Block Base of e-G52HSRDA -K2B	Fits Block Base of e-G52HSRDA -K2C
	for 25mL round bottom flask	31076344	31076439	31076445
	for 50mL round bottom flask	31076345	31076440	31076446
	for 50mL U.S. standard round bottom flask*	31076346	31076441	31076447
	for 100mL round bottom flask	31076347	31076442	31076448
	for 100mL U.S. standard round bottom flask*	31076438	31076443	31076449
	for 250mL round bottom flask		31076444	31076450
	for 500mL round bottom flask			31076451

* 50 mL and 100 mL round-bottom flasks in the US market may not conform to international standards, therefore, a different insert is required. Please check with your supplier for the flask standards.

Multi-Sample Reaction Station Accessories

	Item No.	Description	Item No.	Description
	30500570	Base Plate 135 mm	30500580	Sectional Block 25 mm Test Tubes
	30500571	Handles for Base Plate	30500581	Uni Block 12 mm Vials
	30500572	Sectional Block 12 mm Vials	30500582	Uni Block 15 mm vials
	30500573	Sectional Block 15 mm vials	30500583	Uni Block 17 mm Vials
	30500574	Sectional Block 17 mm Vials	30500584	Uni Block 21 mm Vials
	30500575	Sectional Block 21 mm Vials	30500585	Uni Block 28 mm Vials
	30500576	Sectional Block 28 mm Vials	30500586	Uni Block 12 mm Test Tubes
	30500577	Sectional Block 12 mm Test Tubes	30500587	Uni Block 16 mm Test Tubes
	30500578	Sectional Block 16 mm Test Tubes	30500588	Uni Block 20 mm Test Tubes
	30500579	Sectional Block 20 mm Test Tubes	30500589	Uni Block 25 mm Test Tubes

Probe Accessories

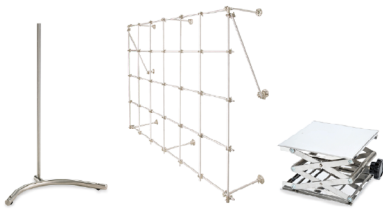
	Item No.	Description
	30973654	Probe PT100(A) -40~400C 25cm SS316/304
	30500590	Probe PT1000(A) -40~400C 20cm SS316/304 (included in the synthesis kits)
	30500592	Probe PT1000(A) -40~400C 25cm SS316/304
	30973655	Probe PT1000(A) -40~400C 25cm Hastelloy
	30500591	Probe PT1000(A) -40~200C 20cm PTFE
	30500593	Probe PT1000(A) -40~200C 25cm PTFE

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Multi-Sample Reaction Station Accessories

	Item No.	Description
	30983668	Support Rod S/S D13 x L450 mm THR.M10

Clamps and Lab Frames

			
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Installation Guide

Base



Insert



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

