

# GUARDIAN™ 5000 SERIES

Hotplate Stirrers

## Competitive Comparison



7 × 7 in.



10 × 10 in.



Round

	OHAUS Guardian™ 5000	VWR	Corning	Corning	Thermo	Fisherbrand	IKA	Heidolph	Benchmark Scientific	Benchmark Scientific
Model	5000 Series	97042-642	6795-420D	6795-220	SP88857100	SP88850200	3581201	505-30000-00	H3770-HS	H4000-HS
Description	Hotplate-Stirrer e-G51HS07C 120V US	Advanced Hotplates, Stirrers & Hotplate-Stirrers	Corning® 5 × 7 in. Top PC-420D Stirring Hot Plate with Digital Displays	Corning® 4 × 5 in. Top PC-220 Analog Hot Plate/Stirrer	Thermo Scientific™ Cimarec+™ Stirring Hotplates	Fisherbrand IsoTemp	C-MAG 7 digital	MR Hei-Tec	Digital Hotplate & Stirrer	Analog Hotplate & Stirrer
Unit Type	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring
Control Type	Knob - Microprocessor	Microprocessor controlled with LED display for set-point temp only	Digital display with dials	Analog with dials	Digital display with dials	Digital display with dials	LED for temp, Speed 0-6 Scale with dials	Digital display with dial	Digital display for Temp with dials	Analog with dials
Programs	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	No	No
Top Dimensions	7 × 7, 10 × 10, 5.3 in. Round	7 × 7, 10 × 10 in.	5 × 7 in.	4 × 5 in.	7.25 × 7.25 in.	7.25 × 7.25 in.	180 × 180 mm	145 mm (5.65 in.)	7 × 7 in.	7.1 × 7.1 in.
Top Plate material	Ceramic (Square) Aluminum (Round)	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic-coated aluminum	white ceramic work surface	white ceramic work surface
Temperature Range	Ambient to 500C (Ceramic) Ambient to 380C (Aluminum)	Ambient +5°C to 500°C	Ambient +5 to 550°C	Ambient +5 to 550°C	RT to 540°C	RT to 40°C	50 to 500°C	20 to 300°C	Ambient +5 to 400°C	80 to 380°C
Temperature Stability (Plate)	+/-3% Plate, below 100C +/-2C (2 in. diameter center of top plate)	± 3%	Not advertised	Not advertised	Not advertised	Not advertised	+/- 5	+/- 1	+/- 1°C	n/a
Speed Range	60 to 1600 rpm	60 – 1600 rpm	60 – 1,150 rpm	60 – 1,100 rpm	50 – 1,500 rpm	50 – 1,500 rpm	100 – 1500 pm	100 – 1,400 rpm	150 – 1500 rpm	60 – 1500 rpm
Speed Stability	± 2%	± 2%	Not advertised	Not advertised	Not advertised	Not advertised	Not advertised	+/- 1%	Not advertised	n/a
Timer	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	no	no
Max Capacity, H <sub>2</sub> O	7 × 7 = 15L 10 × 10 = 18L Round = 20L	7 × 7 in. Units 2500mL 10 × 10 in. Units 6000mL	Not advertised	n/a	Not advertised	Not advertised	10L	20L	5L	Not advertised
Heater Wattage (7 × 7)	1080/1210W	1000W	698W	283W	1440 / 1560W	1440 / 1560W	1000W	800W	500W	500W
Footprint	7 × 7 = 12.2 × 8.8 × 4.8 10 × 10 = 16.3 × 11.3 × 4.8 Round = 10.5 × 6.8 × 5.0	7 × 7 Units 14.8 × 9.9 × 4.3 in. (37.6 × 25 × 10.9 cm) 10 × 10 Units 17.9 × 13 × 4.3 in. (45.5 × 33 × 10.9 cm)	4.25 × 7.75 × 11 in. (10.8 × 19.7 × 28 cm)	4.5 × 5.8 × 7.3 in. (112 × 147 × 185 mm)	13 × 8.2 × 3.8 in. (33 × 20.8 × 9.7 cm)	13 × 8.2 × 3.8 in. (33 × 20.8 × 9.7 cm)	220 × 335 × 105 mm	173 × 277 × 94 mm	7 × 11.5 × 4 in. (18 × 27.9 × 10.1 cm)	8.5 × 10 × 4.5 in. (20 × 23 × 11.5 cm)
Warranty	2 Years	5 years	2 years	2 years	3 years	3 years	2 years	3 years	2 years	2 years

# GUARDIAN™7000 SERIES

Hotplate Stirrers

## Competitive Comparison



	OHAUS Guardian™ 7000	VWR	Thermo	Fisherbrand	Thermo	Fisherbrand	IKA	IKA	VELP	Heidolph
Model	7000 Series	97042-714	88880005	11-676-262	S88857190	S28482	20002695	5020001	SB20510460	505-40000-00
Description	Hotplate-Stirrer e-G71HS10C 120V US	VWR® Professional Hot Plate Stirrers	Thermo Scientific™ RT2 Advanced Hotplate Stirrer	Fisherbrand™ Isotemp™ RT Advanced Hotplate Stirrer	SuperNuova Stirrers	IsoTemp Advanced	C-MAG HS 7 Control	RET control-visc	Arex 6 Digital Arex 6 Digital Pro with VTF AREX-6 Connect PRO w/ VTF and EVO	Hi-Connect
Unit Type	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating and Stirring	Heating, Stirring, Weighing	Heating and Stirring	Heating and Stirring
Control Type	Custom backlit LCD with knobs	Digital display with buttons	Digital display with dials	Digital display with dials	Digital display with dial	Digital display with dial	Digital display with dial	Digital display with dials	Digital display with dials	Digital display with dial and buttons
Programs	Programs loaded via USB Connection	n/a	n/a	n/a	Yes	Yes	No	Yes	No	Yes, external software
Top Dimensions	7 x 7, 10 x 10, 5.3 in. Round	7 x 7 in.	140 mm (5.5 in.)	140 mm (5.5 in.)	7.25 x 7.25 in.	7.25 x 7.25 in.	7.25 x 7.25 in.	Ø 135 mm	Ø 135 mm	145 mm
Top Plate material	Ceramic (Square) Aluminum (Round)	Ceramic	Ceramic-coated aluminum	Ceramic-coated aluminum	Ceramic	Ceramic	Ceramic	Ceramic-coated stainless steel	Ceramic-coated aluminum	Kera-Disk® (Silumin with ceramic coating)
Temperature Range	Ambient +5-500°C	Ambient +5-500°C	50° to 350°C	50° to 350°C	RT to 450°C	RT to 450°C	RT to 500°C	RT to 340°C	RT to 370°C	20 to 300°C
Temperature Stability	+/-1% Plate, below 100°C +/-1°C and +/-0.5% Probe, below 100°C +/-1°C	+/-1%	Not advertised	Not advertised	Not advertised	Not advertised	0.2 ±K	Not advertised	±0.5°C (VTF/VTFEVO) ± 1°C (Pt100)	±1 °C
Speed Range	60-1600 RPM	60-1600 rpm	30 to 2000 rpm	30 to 2000 rpm	50 to 1,500 rpm	50 to 1,500 rpm	50 to 1,500 rpm	50-1,700 rpm	30-1700 rpm	100 - 1,400 rpm
Speed Stability	+/-2%	+/- 2%	Not advertised	Not advertised	Not advertised	Not advertised	2 ±%	10 rpm	5 rpm	±2 %
Timer	1 minute – 99 hours, 59 minutes	1 sec to 160 hours	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max Capacity, H <sub>2</sub> O	7 x 7 = 15L 10 x 10 = 18L Round = 20L	2500mL	20L	20L	10L	10L	20L	20L	20L	20L
Heater Wattage (7/10)	1080/1210W	1000W	600W	600W	1480W / 1580W	1480W / 1580W	1020W	650W	630W	800W
Footprint	7 x 7 = 12.2 x 8.8 x 4.8 10 x 10 = 16.3 x 11.3 x 4.8 Round = 10.5 x 6.8 x 5.0	14.8 x 9.9 x 4.3 in. (37.6 x 25 x 10.9 cm)	11.42 x 6.34 x 3.94 in. (290 x 161 x 100 mm)	11.42 x 6.34 x 3.94 in. (290 x 161 x 100 mm)	8.2 W x 13 D x 3.8 in. H (20.8 x 33 x 9.7 cm)	8.2 W x 13 D x 3.8 in. H (20.8 x 33 x 9.7 cm)	220 x 88 x 354 mm	160 x 270 x 85 mm	6.5 x 4.1 x 11 in. (160 x 105 x 280 mm)	173 x 277 x 94 mm
Warranty	2 Years	5 years	2 years	2 years	3 years	1 year	Lifetime	3 years	3 years	3 years