

SC-H-III

AUTOMATED LARGE-FORMAT HOT PLATE

The SC-H-III is a high-temperature automated hot plate system featuring an expanded 300 mm × 300 mm heating area supporting wafers up to 12 inches. It incorporates an integrated motorized jacking substrate lift (0-30 mm), an adjustable nitrogen purging gas channel, and active vacuum evacuation lines for precise baking sequences.



AT A GLANCE

Heating Area **300 × 300 mm**

Max Temperature **500°C**

Lifting Range **0 - 30 mm**

Chamber Material **Stainless Steel**

System Weight **12 kg**

Large-Area Proximity Baking

Designed with an active heating stage measuring 300 mm × 300 mm to accommodate heavy plates and large semiconductor wafers up to 12 inches.

Motorized Pin Lift

Integrates a programmable motorized substrate jacking mechanism (0-30 mm range) supporting precise proximity height configurations.

Atmosphere Control Channels

Supports controlled atmosphere baking workflows with adjustable nitrogen gas purging lines and active vacuum evacuation lines.

Digital Interface Controls

Controlled via an integrated touchscreen interface supporting USB keyboard/mouse integration, formula storage, and recipe exports.

Technical Specifications

Process Capabilities & Thermal Performance	
Hot Plate Dimension	300 × 300 mm (12 inches)
Maximum Temperature	500 °C (continuously adjustable)
Constant Temp Fluctuation / Uniformity	±0.5 °C / ±0.5 °C (across highest temperature workspace)
Atmosphere Control	Supports nitrogen gas purging (0.2-0.8 MPa) and vacuum evacuation
Control System & Interface	
Human-Machine Interface (HMI)	8-Inch Touchscreen
Programming Function	10 segments, N groups of formulas (exportable via USB)
Lifting Range	0 - 30 mm (motorized lifting, arbitrarily positioned)
Peripheral Compatibility	Supports external mouse and keyboard connectivity
Power & Facilities	
Operating Voltage	AC 100-240V, single phase
Power Consumption	1 kW
Facilities & Mechanical Data	
Product Dimension (W×D×H)	420 mm × 560 mm × 360 mm
System Weight / Installation	12 kg / Horizontal desktop placement
Operating Environment	0 - 40 °C / < 85% RH
Warranty	1 Year

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