

TECHNICAL DATA SHEET

Levon™ HP100-SA/HP100-PA Nitrogen-Filled Programmable Hotplate

Nitrogen input 0.04–0.4 MPa · RT to 300°C · $\pm 0.2^{\circ}\text{C}$ accuracy · 7-inch touchscreen · auto-lift



Levon™ HP100-SA/HP100-PA Nitrogen-Filled Programmable Hotplate — Representative Configuration

The Levon™ HP100-SA/HP100-PA Nitrogen-Filled Programmable Hotplate is a programmable hot plate with nitrogen input, a 7-inch touchscreen and an auto-lift function, offered as the HP100-SA and the HP100-PA. Image shown for reference (HP100-SA); final configuration is confirmed in the quotation.

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SECTION I

Product Overview

Levon™ HP100-SA/HP100-PA Nitrogen-Filled Programmable Hotplate is a programmable hot plate with nitrogen input (0.04–0.4 MPa), a 7-inch full-color touchscreen with PLC control and an auto-lift function for proximity baking, controlling temperature from RT to 300°C with $\pm 0.2^\circ\text{C}$ accuracy and 0.1°C resolution. It is available in HP100-SA and HP100-PA configurations. The HP100-PA supports linear temperature control and vacuum adsorption.

Temperature uniformity is $\pm 1\%$ from RT to 200°C and $\pm 1.5\%$ from 200°C to 300°C, with 0.1 s time resolution and lift pins adjustable from 0 to 30 mm. Both configurations have a hard-anodized aluminum heating plate and a height-reducible, flush-mount design, and measure 350 × 500 × 320 mm (W × D × H). The HP100-PA supports 100 recipes with up to 30 heating stages each and a settable linear heating rate of 0.5 to 10°C/min.

SECTION II

Core Advantages

- **Hard-anodized heating plate** Hard-anodized aluminum heating plate with corrosion resistance.
- **7-inch touchscreen with PLC** 7-inch full-color touchscreen operation with PLC control.
- **Flush-mount design** Height-reducible operation with a flush-mount design.
- **Auto-lift for proximity baking** Auto-lift function for proximity baking mode; lift pins adjustable from 0 to 30 mm.
- **Nitrogen charging** Nitrogen charging as an additional customization function; nitrogen input requirement 0.04–0.4 MPa.
- **Linear control and vacuum (HP100-PA)** Linear temperature control (0.5 to 10°C/min) and vacuum adsorption on the HP100-PA.

SECTION III

Specifications

Technical data — HP100-SA

Specifications	
Parameter	Specification
Brand	Levon™ by ACS Material
Product Name	Levon™ HP100-SA/HP100-PA Nitrogen-Filled Programmable Hotplate
Models	HP100-SA / HP100-PA
SKU #	LVH1SA00 (HP100-SA) / LVH1PA00 (HP100-PA)
Product type	Nitrogen-filled programmable hotplate
Temperature control range	RT to 300°C
Temperature resolution	0.1°C
Temperature control accuracy	$\pm 0.2^\circ\text{C}$
Temperature uniformity	RT to 200°C: $\pm 1\%$; 200°C to 300°C: $\pm 1.5\%$
Time resolution	0.1 s
Lift pin adjustment range	0–30 mm
Nitrogen input requirement	0.04–0.4 MPa
Control	7-inch full-color touchscreen, PLC control
Heating plate material	Hard-anodized aluminum, corrosion-resistant
Lift function	Auto-lift function for proximity baking mode
Installation	Height-reducible operation with flush-mount design
Customization	Additional customization functions, such as nitrogen charging
Dimensions [W × D × H]	350 × 500 × 320 mm

Configurations — HP100-SA / HP100-PA

Configurations		
Parameter	HP100-SA	HP100-PA
SKU #	LVH1SA00	LVH1PA00

Configurations		
Parameter	HP100-SA	HP100-PA
Maximum set time	999,999.9 s	999,999 s
Packing	Carton packaging	Wooden case
Warranty / quality assurance	1-year product warranty	1-year product quality assurance

HP100-SA — additional specifications

HP100-SA	
Parameter	Specification
Weight	25 kg

HP100-PA — additional specifications

HP100-PA	
Parameter	Specification
Control functions	Linear temperature control and vacuum adsorption
Recipes	100 recipes, up to 30 heating stages each
Linear heating rate	0.5 to 10°C/min, settable
Lift pin use	Substrates larger than 40 mm in diameter; customizable for special requirements

Scope of delivery

- **Standard configuration:** one HP100-SA main unit (carton packaging) or one HP100-PA main unit (wooden case), as ordered.
- **Gas supply** — nitrogen provided by the user at 0.04–0.4 MPa; HP100-PA vacuum supply provided by the user.

SECTION IV

Applications

For programmable baking under nitrogen from RT to 300°C, with touchscreen control and auto-lift proximity baking. The HP100-SA is designed for compact semiconductor research.

Product value: touchscreen-programmed baking to 300°C with nitrogen input and auto-lift proximity mode; the HP100-PA provides vacuum adsorption and linear heating-rate control.

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