

TECHNICAL DATA SHEET

Levon™ HP100 Programmable Hotplate

7-inch touchscreen · auto-lift proximity baking · HP100-SE RT to 300°C or 400°C · HP100-PE vacuum and linear control



Levon™ HP100 Programmable Hotplate — Representative Configuration

The Levon™ HP100 Programmable Hotplate is a programmable hot plate with a 7-inch touchscreen, PLC control and an auto-lift function, offered as the HP100-SE (300°C / 400°C) and the HP100-PE. Image shown for reference (HP100-SE, 300°C); final configuration is confirmed in the quotation.

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SECTION I

Product Overview

Levon™ HP100 Programmable Hotplate is a programmable hot plate with a 7-inch full-color touchscreen and PLC control, a hard-anodized aluminum heating plate, an auto-lift function for proximity baking and a flush-mount design. It is offered as the HP100-SE (RT to 300°C or RT to 400°C) and the HP100-PE (RT to 300°C) with linear temperature control and vacuum adsorption.

All HP100 configurations measure 350 × 460 × 320 mm (W × D × H) and have 0.1°C temperature resolution. The HP100-SE has $\pm 0.2^\circ\text{C}$ temperature control accuracy, $\pm 1.5\%$ temperature uniformity, lift pins adjustable from 0 to 33 mm and a 1,400 W heating plate for substrates below 8 inches. The HP100-PE has a 220 × 220 mm heating plate, $\pm 0.2^\circ\text{C}$ temperature control accuracy, $\leq 1\%$ temperature uniformity (RT to 300°C), 100 recipes with up to 30 heating stages each, a settable linear heating rate of 0.5 to 10°C/min and a rear vacuum connection.

SECTION II

Core Advantages

- **Hard-anodized heating plate** Hard-anodized aluminum heating plate with corrosion resistance.
- **Flush-mount design** Height-reducible operation with a flush-mount design.
- **300°C or 400°C (HP100-SE)** HP100-SE for RT to 300°C (LVH100SE) or RT to 400°C (LVH100S4).
- **7-inch touchscreen with PLC** 7-inch full-color touchscreen operation with PLC control.
- **Auto-lift for proximity baking** Auto-lift function for proximity baking mode; lift pins adjustable from 0 to 33 mm (HP100-SE) or 0 to 30 mm (HP100-PE).
- **Linear control and vacuum (HP100-PE)** Linear temperature control (0.5 to 10°C/min) and vacuum adsorption on the HP100-PE.

SECTION III

Specifications

Technical data — HP100

Specifications	
Parameter	Specification
Brand	Levon™ by ACS Material
Product Name	Levon™ HP100 Programmable Hotplate
Models	HP100-SE / HP100-PE
SKU #	LVH100SE (HP100-SE, 300°C) / LVH100S4 (HP100-SE, 400°C) / LVH100PE (HP100-PE)
Product type	Programmable hotplate
Temperature resolution	0.1°C
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
Dimensions [W × D × H]	350 × 460 × 320 mm
Packing	Carton packaging
Warranty	1-year product warranty

Configurations — HP100-SE / HP100-PE

Configurations			
Parameter	HP100-SE (300°C)	HP100-SE (400°C)	HP100-PE
SKU #	LVH100SE	LVH100S4	LVH100PE
Temperature control range	RT to 300°C	RT to 400°C	RT to 300°C
Temperature control accuracy	$\pm 0.2^\circ\text{C}$	$\pm 0.2^\circ\text{C}$	$\pm 0.2^\circ\text{C}$
Temperature uniformity	$\pm 1.5\%$	$\pm 1.5\%$	$\leq 1\%$ (RT to 300°C)
Lift pin adjustment range	0–33 mm	0–33 mm	0–30 mm
Power	Heating plate 1,400 W; AC 200–240 V, single-phase (220 V model)	Heating plate 1,400 W; AC 200–240 V, single-phase (220 V model)	220 V, 2,800 W (110 V optional)

HP100-SE — additional specifications

HP100-SE	
Parameter	Specification
Maximum set time	999,999.9 s
Time resolution	0.1 s
Compatible substrates	Below 8 inches
Weight	25 kg

HP100-PE — additional specifications

HP100-PE	
Parameter	Specification
Control functions	Linear temperature control and vacuum adsorption
Heating plate	220 × 220 mm square
Lift pin height resolution	0.1 mm
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
Vacuum connection	Rear-panel outlet, 6 mm outer diameter
Vacuum input requirement	0.04–0.09 MPa

Scope of delivery

- **Standard configuration:** one HP100 main unit (HP100-SE 300°C, HP100-SE 400°C or HP100-PE, as ordered), carton packaging.
- **Configuration** — HP100-SE RT to 300°C = SKU LVH100SE; HP100-SE RT to 400°C = SKU LVH100S4; HP100-PE = SKU LVH100PE (vacuum supply provided by the user).

SECTION IV**Applications**

For programmable resist baking with touchscreen control, auto-lift proximity baking and a flush-mount option. The HP100 is designed for compact semiconductor research.

Product value: touchscreen-programmed baking with auto-lift proximity mode in three configurations: HP100-SE to 300°C or 400°C, and HP100-PE with vacuum adsorption and linear heating-rate control.

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