

## Hotplate HP-401-Z

The SAWATEC HP-401-Z hotplate has been developed for standard soft bake and hard bake processes in lithography and similar applications. The multi-zone heating system (16 zones) ensures very high temperature distribution, which is adjustable for each zone.

The temperature range is designed as standard up to 300° C. The HP-401-Z offers very high uniformity and process repeatability and can be used for substrates up to 300mm.

The hotplate comes as standard with proximity pins and loading pins, allowing simultaneous processing of five substrates (up to 100mm).

Outstanding features of the hotplate are its robust design and ease of operation. The hotplate's modular design means that it can be used in a wide range of applications with high optional expandability (wet bench integration).



HP-401-Z

### FEATURES:

- ↗ Hotplate/Coolplate is divided into 16 zones
- ↗ Digital temperature controller with actual-and nominal value
- ↗ max. 20 segments per program
- ↗ Pneumatic lift of the lid
- ↗ Pneumatic driven loading as well as proximity pins
- ↗ Manual adjustable proximity pins between 0-1mm (0.1mm increments)
- ↗ Pin made of Inconell with ceramicball
- ↗ Pin-circle-diameter Ø45mm
- ↗ Internal height max. 23mm max.substrate thickness 20mm
- ↗ Max. substrate size 1x300mm or 5x100mm
- ↗ Substrate loading: manual
- ↗ Substrate fixation via vacuum
- ↗ Free programmable temp. ramp up with max. 10°C/min (25°-300°C)
- ↗ Free programmable temp. ramp down with max. 5°C/min (300°-40°C)

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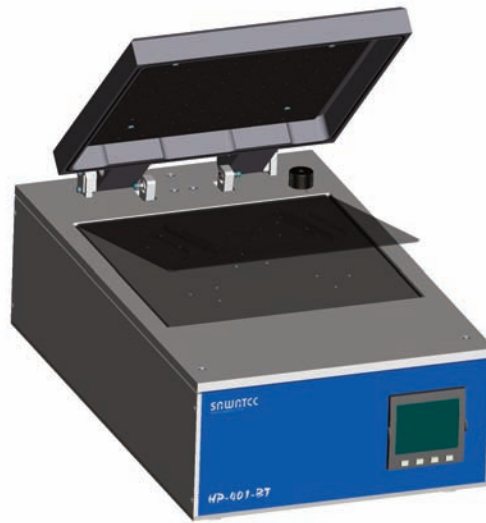
Pictures may show standards with options.

HP-401-2

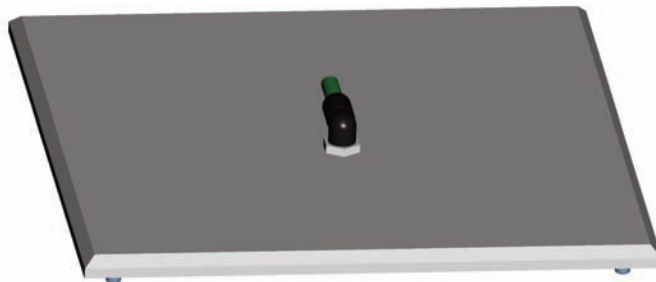
## OPTIONS

- ⇒ Nitrogen flush PLC controlled
  - N2-lid made anodised aluminium
  - N2 solenoid valve
- ⇒ Protection glass with pins
- ⇒ Nitrogen- and HMDS prime PLC controlled
  - N2-lid made anodised aluminium
  - N2 solenoid valve
  - HMDS solenoid valve

PROTECTION GLASS

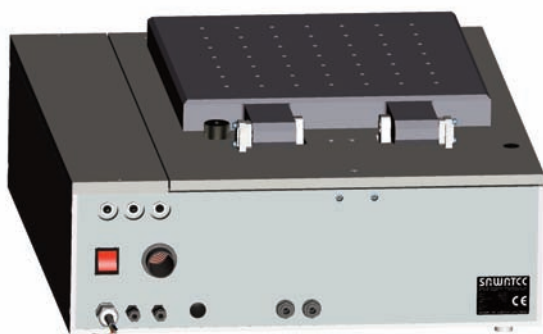


N2-LID



- ⇒ Temperature range: 25 - 300°C
- ⇒ Accuracy of temperature: +/-0,3°C per 100°C
- ⇒ Substrate loading: manual
- ⇒ Substrate fixation via vacuum
- ⇒ Max. substrate size 1x300mm or 5x100mm
- ⇒ Internal height max. 23mm: max. substrate thickness 20mm

- ⇒ 3x400 VAC 50/60Hz (8kW)
- ⇒ Technical vacuum, tube Ø6/4mm
- ⇒ Compressed air 4 bar, tube Ø6/4mm
- ⇒ Exhaust-connector Ø32mm
- ⇒ Cooling water 3l/min by 18°C
- ⇒ Cooling water In/Out, tube Ø8/6mm



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## PERFORMANCE

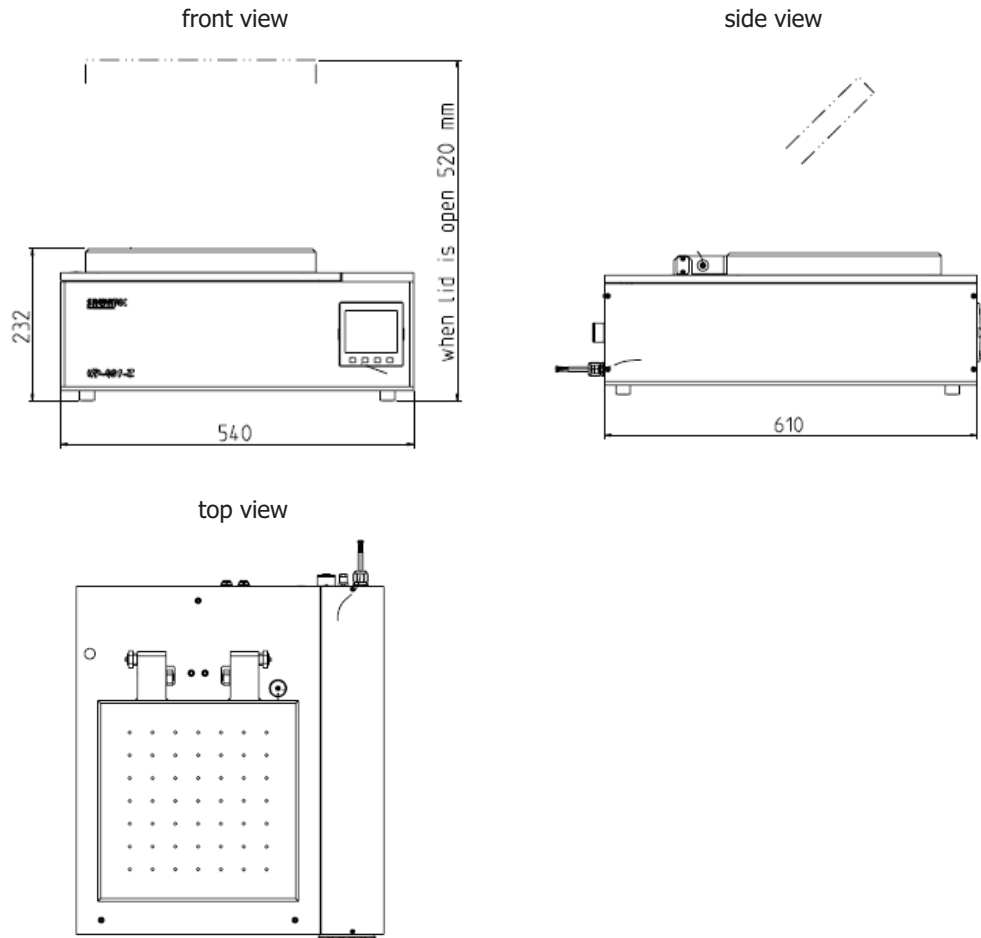
## REQUIRED MEDIA

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# HP-401-2

## VIEWS



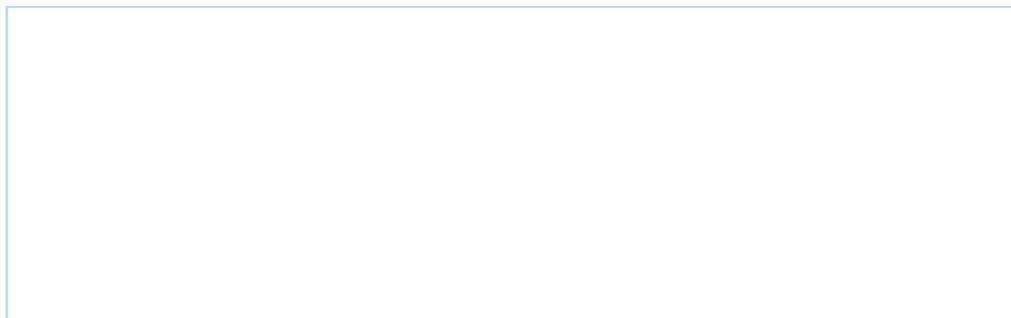
## DIMENSIONS

- ⇒ Size: 540x610x240mm (LxBxH)
- ⇒ Hotplate size: 320x320mm
- ⇒ Weight: approx. 55kg

## DESIGN

- ⇒ Housing: Anodised aluminium
- ⇒ Hotplate material: Anodised aluminium

## DEALER



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