



## PIP 6

### Temperature Controlled Pipette Puller





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HEKA is proud to introduce the new PIP 6 temperature controlled pipette puller. The PIP 6 has taken all of the exceptional features of its predecessor, the PIP 5, while providing additional improvements to further increase the reliability and reproducibility in the fabrication of micropipettes for nearly any use.



The precise temperature controlled heating filament of the PIP 6 provides excellent repeatability in pulling micropipettes. The temperature control works independently of the filament. It is not affected by the filaments condition, age, or make-up material. Therefore, settings do not have to be constantly corrected. This precise temperature control also assures that preset temperature settings are attained rapidly. This feature is especially important for the lower temperature settings of the second pull.

The PIP 6 pulls pipettes vertically to assure straight, concentric shapes. The pipettes are fabricated by a two-stage pull at two independently selectable temperature settings. Different spacer disks determine the individual pull length and allow for production of pipettes of different dimensions. Pipette glass diameters of 1.0 to 3.0 mm (thin as well as heavy walled) can be held and pulled. Large, as well as extremely fine tip pipettes can be fabricated. In addition, a new cover plate design allows capillaries up to 150 mm in length to be used. An adjustable pipette stop helps in centering the pipette when mounting in the puller bars. This feature allows equal length pipettes to be easily pulled.

Like all HEKA instruments, the PIP 6 is built for reliability and durability. The PIP 6 is CE-certified and is equipped with a cover plate safety switch to prevent filament heating when the cover panel is open. The PIP 6 has an efficient current circuit design which eliminates the need for a powered and noisy air ventilator for cooling. In addition, its compact space-saving design allows the PIP 6 to fit easily on any lab bench.

### *Main Features*

- Easy to use gravitational force two-stage vertical puller
- Temperature controlled heating filament
- Two independent temperature settings
- Filament temperature range: 300°C – 1900°C
- Variety of single and patch clamp micropipettes pulled with precise reproducibility
- Versatile two-stage pull for the production of a variety of pipette types
- Pipette length easily changed with supplied spacer disks
- Heating element adjustable in two directions
- Preset temperature rapidly attained especially with the second pull
- Economical current circuit design eliminates the need for a powered air ventilator for cooling
- Safety switch prevents filament heating when cover panel is open
- Cover panel minimizes heater temperature drifts caused by drafts
- Space-saving, compact bench-top design

### *Improvements in Comparison to PIP 5*

- Increased working distance for capillaries up to 150 mm in length
- Adjustable pipette stop allows fabrication of multiple pulled pipettes to exactly the same lengths
- Improved temperature control for attaining fast preset temperature response especially with the second pull
- Reduced weight

### *Technical Specifications*

**Filament temperature range:** 300°C – 1900°C

**Glass types:** Suitable for all types of soft and hard glass (except: Quartz glass) with an outer diameter of 1 to 3 mm and up to a length of 150 mm

**Dimensions:** (345 x 240 x 330) mm, (13.6 x 9.4 x 13.0) inches

**Weight:** 10 kg, 21.8 lbs

**Power requirements:** 90 - 254 VAC, 50/60 Hz, 410 Watts



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