

# The Port-a-Patch<sup>®</sup> NPC<sup>®</sup>-1 Perfusion System

nanji[on]

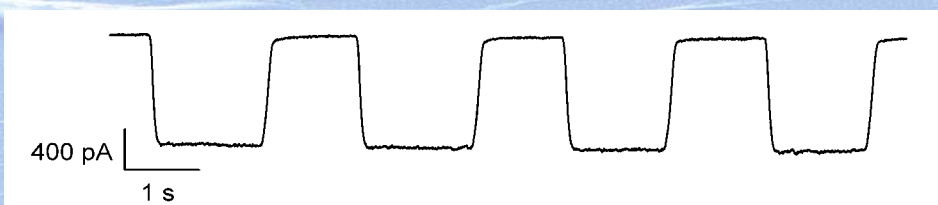
Nanon Technologies GmbH

## Perfusion Chamber

- fits all perfusion systems
- continuous flow
- easy add on

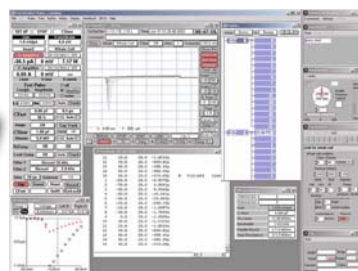


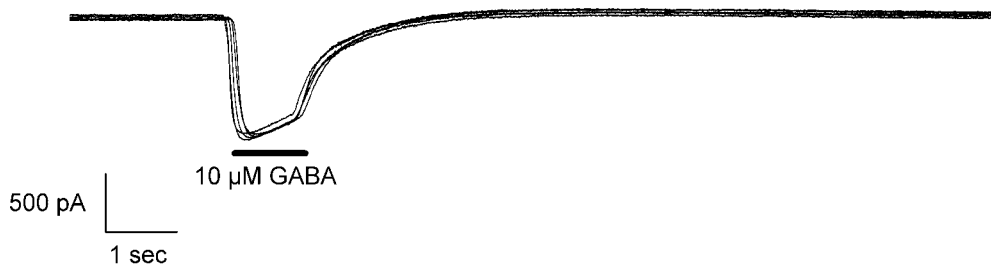
Temperature controller is available from Dagan Corporation (Heat Wave 30)



Repetitive solution exchange with the NPC<sup>®</sup>-1 perfusion chamber. High and low external potassium concentrations were applied to RBL cell expressing inward rectifying potassium channels. This figure shows that a steady state is reached in less than 200 ms.

The Port-a-Patch<sup>®</sup> is Nanions entry level device for automated electrophysiology.





Nanions perfusion system enables computer controlled solution changes. In the recording shown on the left 10  $\mu\text{M}$  GABA were applied for one second to HEK 293 cells expressing GABA<sub>A</sub> ( $\alpha_1$ ,  $\beta_2$ ,  $\gamma_2$ ) receptors. An overlay of 5 repeats is displayed.

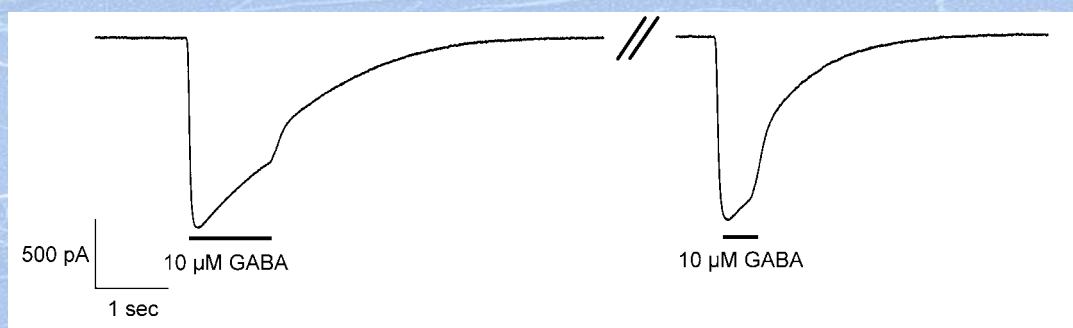


## Perfusion System

- software controlled
- stand alone solution
- suction pump included

Nanions perfusion system provides a fast and continuous perfusion. It allows accurate application of up to eight different compounds and solutions via the patch clamp software. PatchMaster by HEKA can be used to control the perfusion system without an additional interface.

10  $\mu\text{M}$  GABA were applied to HEK 293 cells expressing GABA<sub>A</sub> ( $\alpha_1$ ,  $\beta_2$ ,  $\gamma_2$ ) receptors. The first application of GABA lasted for 1.2 seconds, the second one for 500 ms. The data reveal nicely the different time constants of desensitization and wash out of GABA.



Smart tools for ion channel research

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