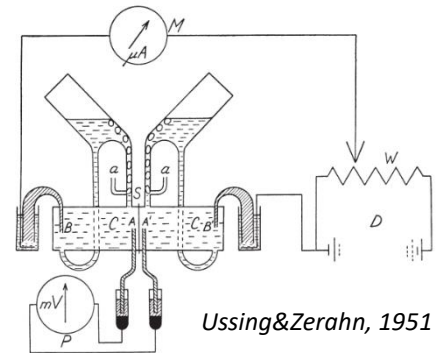
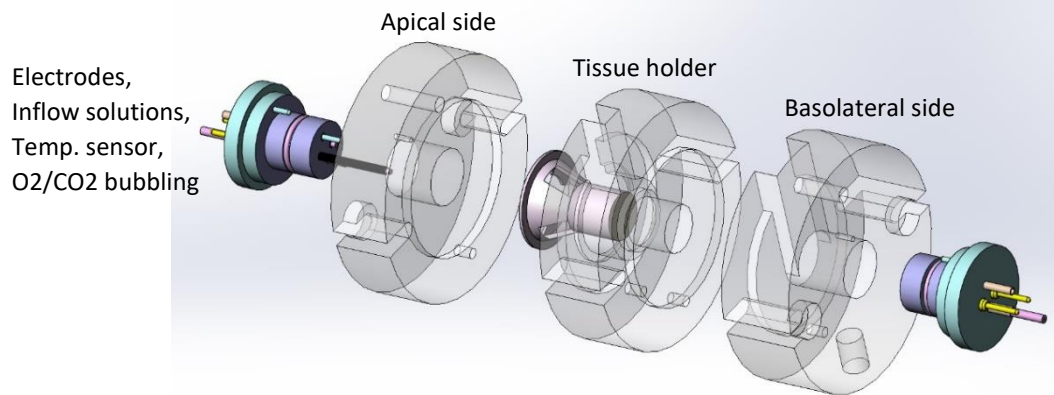


Ussing chamber

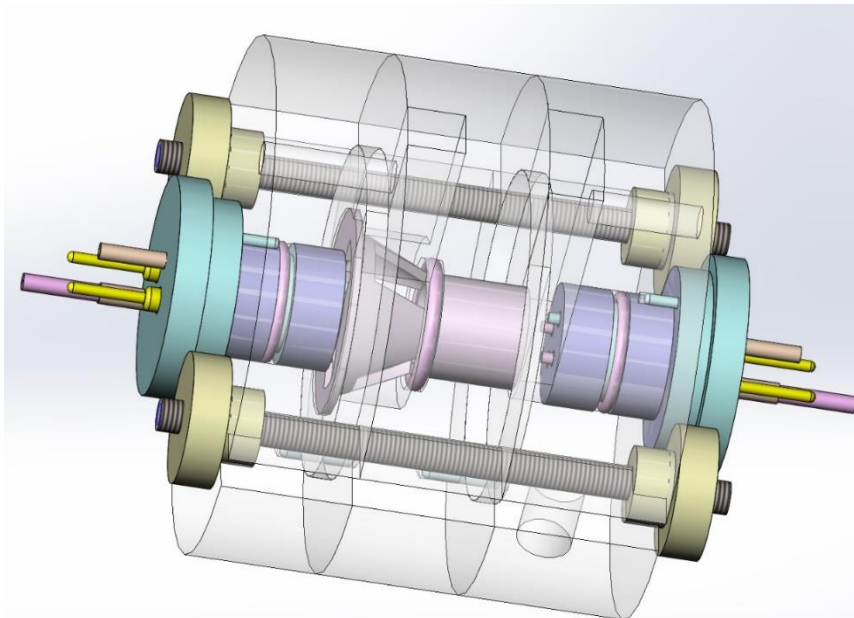
- For use of Costar 6.5 mm transwell filters.
- Continuous perfusion by gravity. Suction pump required.
- Small volume:
 - BL side: 0.26 mL
 - AP side: 1.88 mL
- Heated by air circulation (see below for enclosure).
- Inlet tube for bubbling O_2/CO_2 .



OPEN VIEW



CLOSED VIEW



The chamber is placed in a heated holder. See below.

Note that different versions of the middle part can be provided. These can hold different holders for cells, as for instance Costar snapwells and holders that carry a biopsy.

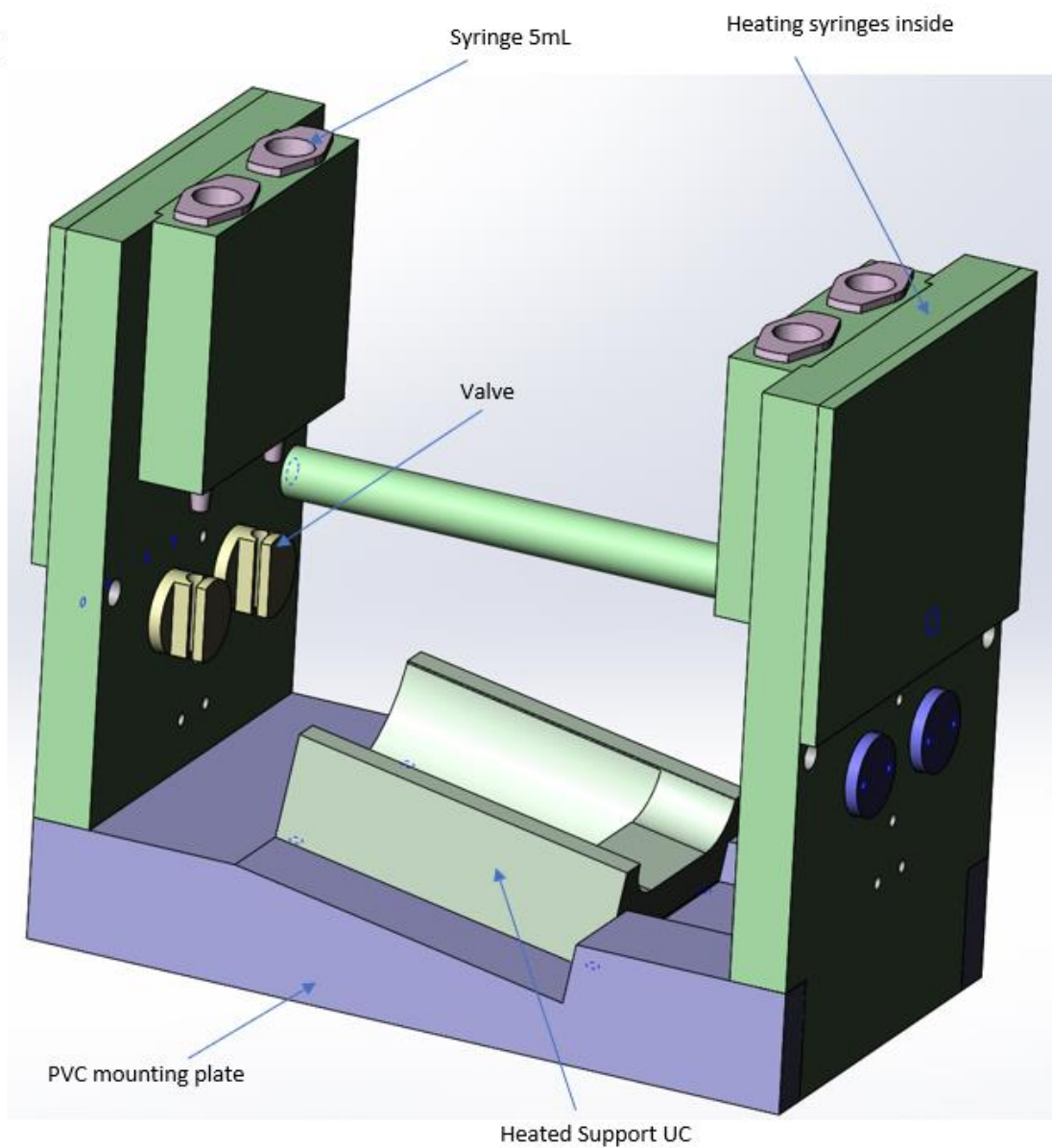
Heating: 1 – In Aluminum holder (Green) mounted on a PVC (Blue) support.

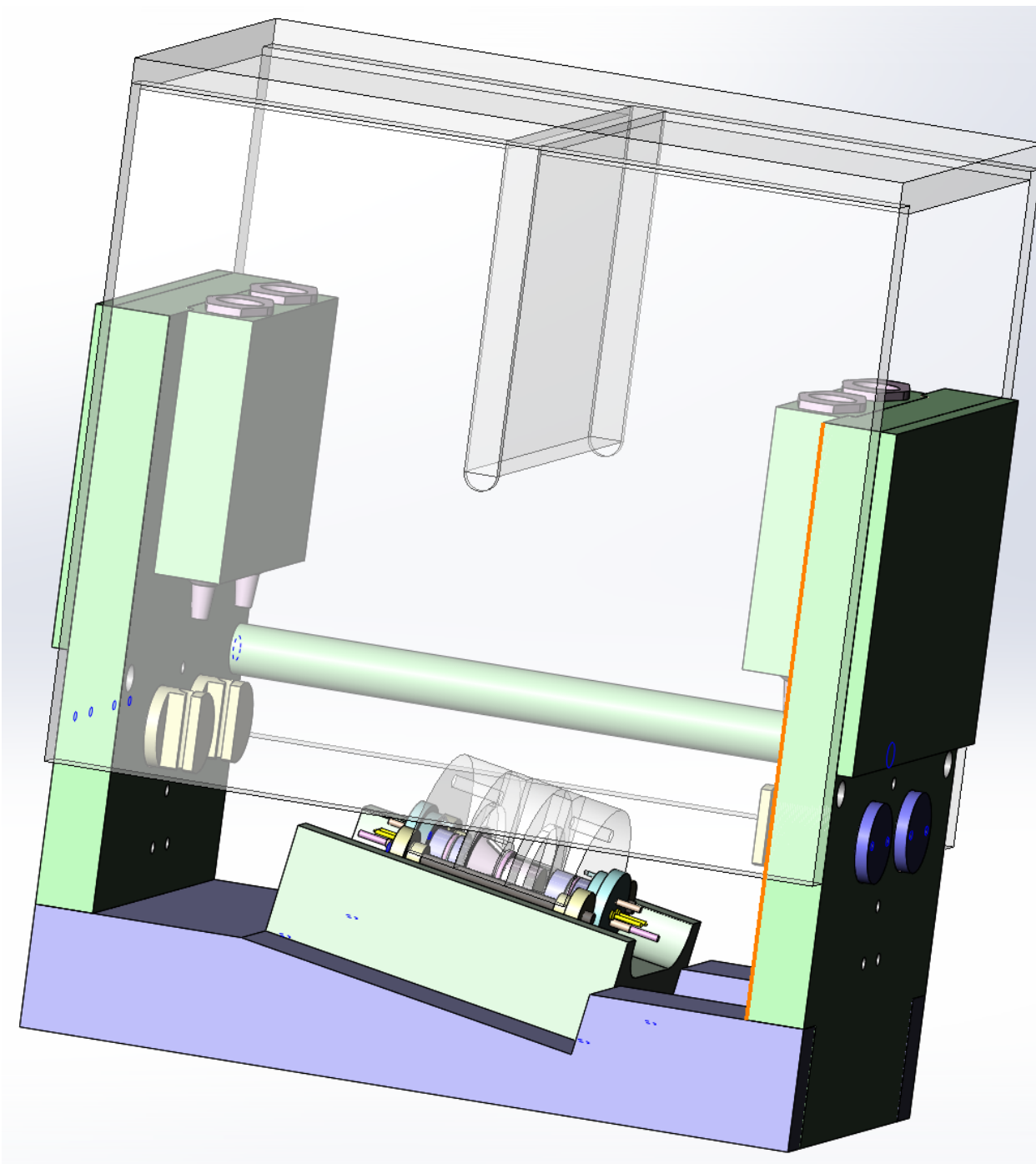
2 – In the right and left part that carries 5 mL syringes for perfusion of the chamber.

Temperature controllers are used to monitor heating.

Perfusion solution: - heated in syringes in stop flow.

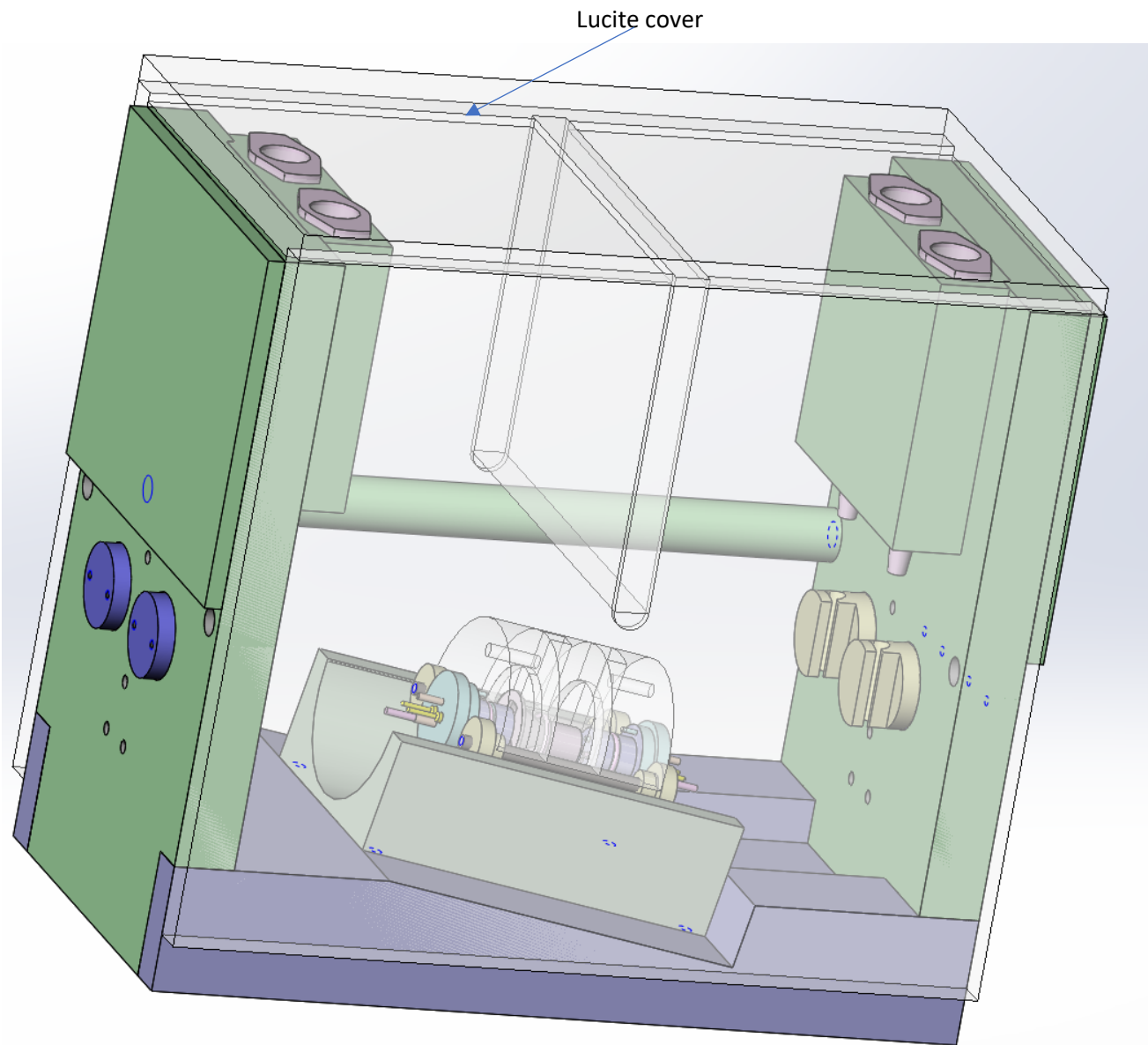
- Flow is controlled by electrically controlled valves.





DIMENSIONS (Closed setup): H: 175 mm; W: 188 mm; D: 100 mm.

View of the complete setup.



Recording of transepithelial parameters is done with an electronic device (*EP Design BVBA*) that can operate in current as well as voltage clamp mode. Transepithelial open circuit voltage (PD), resistance (RT) and short-circuit current can be recorded. Data are stored on a Windows operated PC that displays graphs of the recorded data.

Designed by WVD at EP Design BVBA. Contact wvd@ep-devices.com