

Temperature Control Unit

Basin Refill

THE BASIN REFILL TOOL

During long-lasting DanioVision experiments, evaporation of water out of the basin could be an issue. You can compensate for evaporation by refilling the basin without opening the DanioVision Observation Chamber (DVOC-0040).

The **Basin Refill Tool** (DVBR-0010) allows you to refill the basin without opening the DanioVision Chamber during an experiment. It is provided standard with the DanioVision Temperature Control Unit (DVTCU).



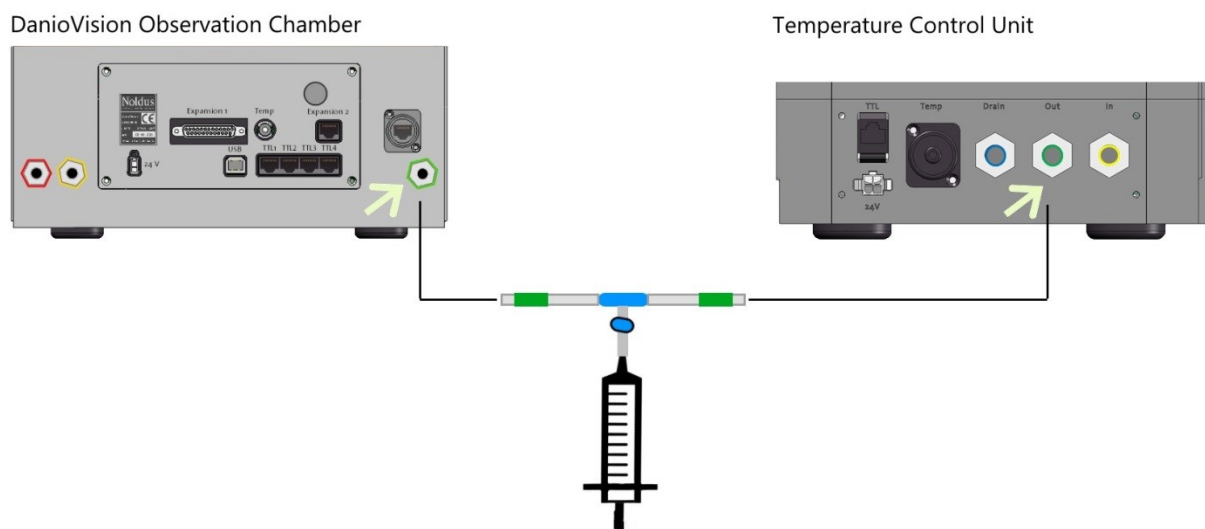
It is possible to fill/refill the basin directly (see Chapters 3 and 4 in the **Temperature Control Unit – DanioVision User Manual**). However this is not practical when an experiment is running.

Only use the Basin Refill tool in combination with the DanioVision Temperature Control Unit (DVTCU).

SETTING UP THE BASIN REFILL TOOL

You must install the Basin Refill Tool before starting the experiment.

1. Make sure your DanioVision basin is empty. To do so, follow the instructions in the Section Draining the DanioVision system in Chapter 4 of the **Temperature Control Unit – DanioVision User Manual**.
2. Disconnect the tube marked in green between the DanioVision Chamber and the TCU (when applicable).
3. Connect the ends of the tubes of the Basin Refill Tool to the corresponding green-marked inlets at the back of the DanioVision Observation Chamber and the Temperature Control Unit:



4. Make sure the faucet is closed (**Off** position).
5. Fill the syringe with basin liquid, and connect it to the short faucet tube.
6. Fill the basin circuit (see Chapter 3 of the **Temperature Control Unit – DanioVision User Manual**).

Tip: While the basin circuit is being filled, insert a few ml liquid out of the syringe in order to prevent air bubbles from getting into the circuit.

7. Start the experiment as usual.

HOW TO USE THE BASIN REFILL

How much liquid to insert via the syringe depends on the level of evaporation and the duration of the experiment. Add liquid into the basin circuit whenever needed.

During refill, do not switch off the Temperature Control Unit!

1. Open the faucet (**On** position).
2. Make sure you can see the overflow outlet of the DanioVision Chamber (red marked tube).
3. Gently push the syringe to insert liquid.
4. Carefully watch the overflow tube. Whenever the liquid comes, **stop** pushing the syringe.

Notes

- Overflow is a good indication for a 100% filled basin, however it may lag on filling.
- The DVTCU will, whenever occur, compensate any temperature fluctuation due the refill. However, make sure that the liquid temperature in the syringe is not too far from the desired basin temperature.

To refill the syringe:

1. Make sure the faucet is closed (**Off** position).
2. Disconnect the syringe.
3. Fill the syringe with basin liquid.
4. Make sure no air is present in the syringe.
5. Connect the syringe back to the faucet tube.

FOR MORE INFORMATION

For more extensive information on the DanioVision Temperature Control Unit, see the **Temperature Control Unit – DanioVision User Manual**, which you can find on our web site www.noldus.com/downloads.