

SERVICE NOTE

MFK1: Cleaning the Up/Down mechanism

Before you start

The Up / Down mechanism gets dirty after some time of use. It is heavily loaded especially during the high / low temperature measurement, when the number of up / down cycles is significantly greater than during the anisotropy measurement.

The dust and the small flakes of the Teflon spacer accumulate on the inner surface of the plastic tube, which consequently causes creation of the scratches on the inner surface of the tube. All the deposits also increase the friction in the system.

The Up/Down Mechanism must be cleaned if it makes suspicious noise or if the time of movement UP is longer than 3.6 seconds.

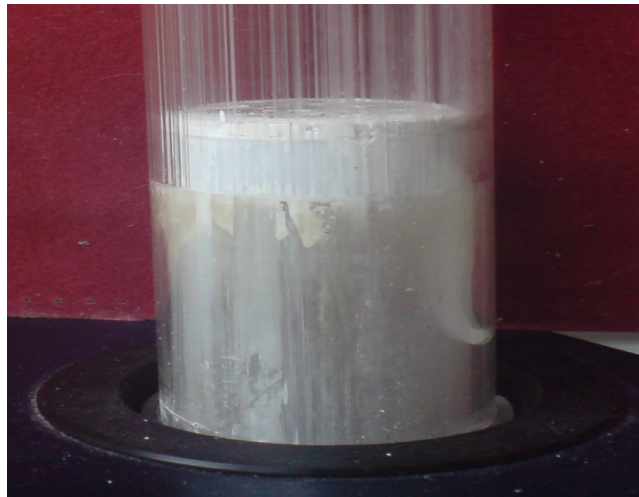


Figure 1: Dirty Up/Down

STEP 1

- Switch the device ON and run the software SAFYR6. From upper main menu select *Execute > Auxiliary commands*.
- Move with the holder down and up using buttons in Auxiliary screen. The execution time of "Up" movement must be less than 3.6 sec. If not, clean the Up/Down mechanism following next step.

STEP 2

- Move the Up / Down mechanism to „down“ position using the button in Auxiliary screen.
- Loosen a little bit the screw marked by red circle in Figure 2 (left) and the arm of the holder. Use the proper size of screwdriver.
- Unscrew the screw marked by red circle in Figure 2 (right) and remove the plastic washer. Remember a correct position of the teflon ring, marked by red arrow.
- Remove the white teflon ring. Apply some tension on the tube with your fingers in the place of the ring and push the button "UP". Teflon ring should move together with the tube.
- Move the Up/Down mechanism to „down“ position again.

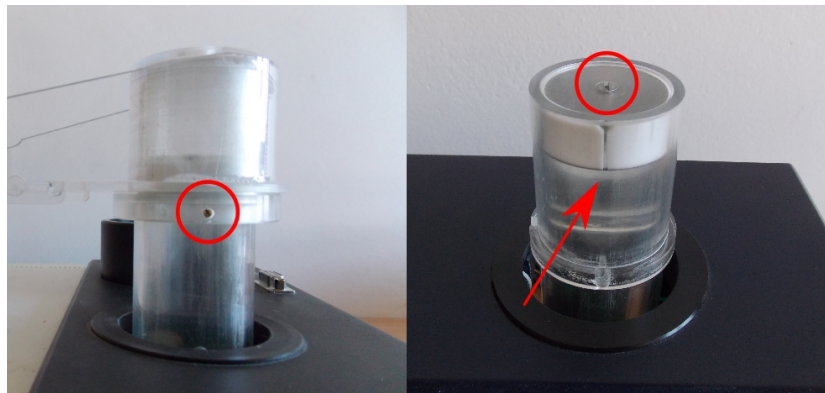


Figure 2

- Prepare a cleaning paper strips with the shape shown in Figure 3. Paper strip of trapezoid shape, about 30 cm in length, with bases 5 cm and 2 cm, thickness of about 0.1 mm (standard office paper).

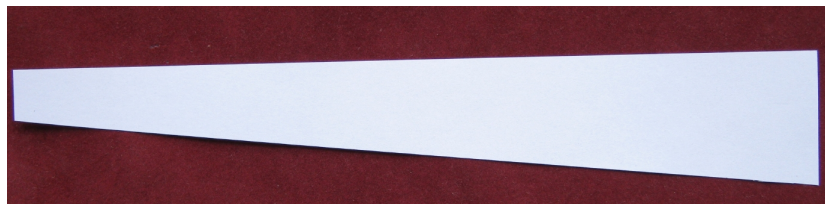


Figure 3

- Clean the space between outer tube and inner cylinder using the paper strips. Move with the paper along the surface of the inner cylinder and simultaneously (a little bit) move it up and down, as you can see in Figure 4.

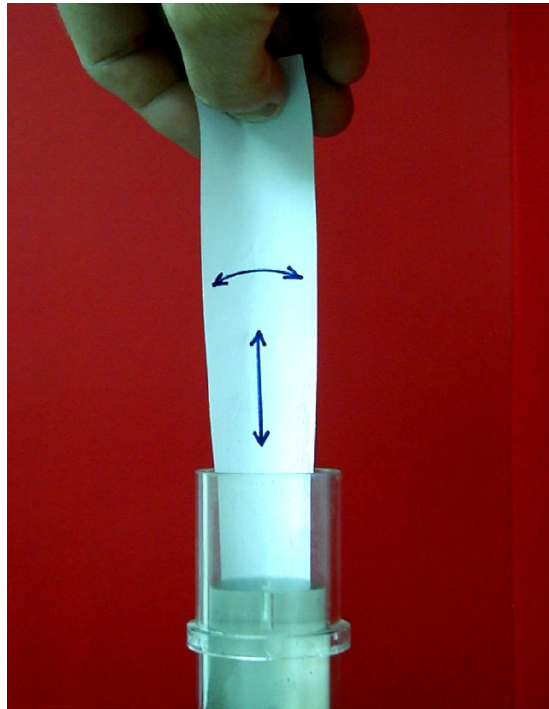


Figure 4

- **Do not lubricate the inner cylinder by any lubricant.**
- **Do not use alcohol for cleaning.** It may damage the plastic cylinder-tube due to evaporated heat.
- Wash the teflon ring in water, dry it and reinstall it into the cylinder in correct angular position.
- Insert the washer and tighten it gently by the fixing screw. Mount the arm of the holder and fix it gently again by the small screw.
- Check the execution time of the mechanism in movement "Up" (less that 3.6 sec).
- In case the cleaning does not fix the problem, please contact Agico for further steps.