



RCPN

Standard operating procedure of Rotary evaporator

Objective: These instructions describes the usage, maintenance and Rotary evaporator system which is kept in Nano-biomaterial laboratory.

Scope: This device is applicable for evaporation and solvent extraction of samples, and should not be used for irrelevant cases.

Responsibility: Laboratory assistance is responsible for the accuracy of the device and should be reported to him/her in case of problems.

Materials and equipment: This device needs to connect to a vacuum pump and water tap also two flasks are required to work with this device.

Guidelines for use:

- 1 – Pick up the Water bath pot then fill it with distilled water for about $\frac{2}{3}$ of its volume.
- 2 - Connect the vacuum pump hosepipe to a tap - like tongue/port located in the upper part of the condenser.
- 3 - The water related hosepipe which is attached to the condenser also attach to water tap.
This hosepipe is located at the bottom of the condenser and connected to its inner spiral circulation.
- 4 - Put the end of the third hosepipe in the sink.
5. For flask contained sample settling, push down and move to the right the knob/handhold of the device which is in front of the pot, as far as come to appropriate height.
- 6 - By the usage of device knob, connect the flask which containing sample to condenser nozzle located in the top of the pot.
- 7 - Push down device knob and move to the left until about half of the flask enter in the water.
- 8 - Ensure that the solvent receiving flask is connected.
9. Press the green buttons of the device and adjust the temperature and round by turning the corresponding screw.
- 10 - Close the condenser tap and put it in a vertical position.
- 11 - Open the vacuum pump.



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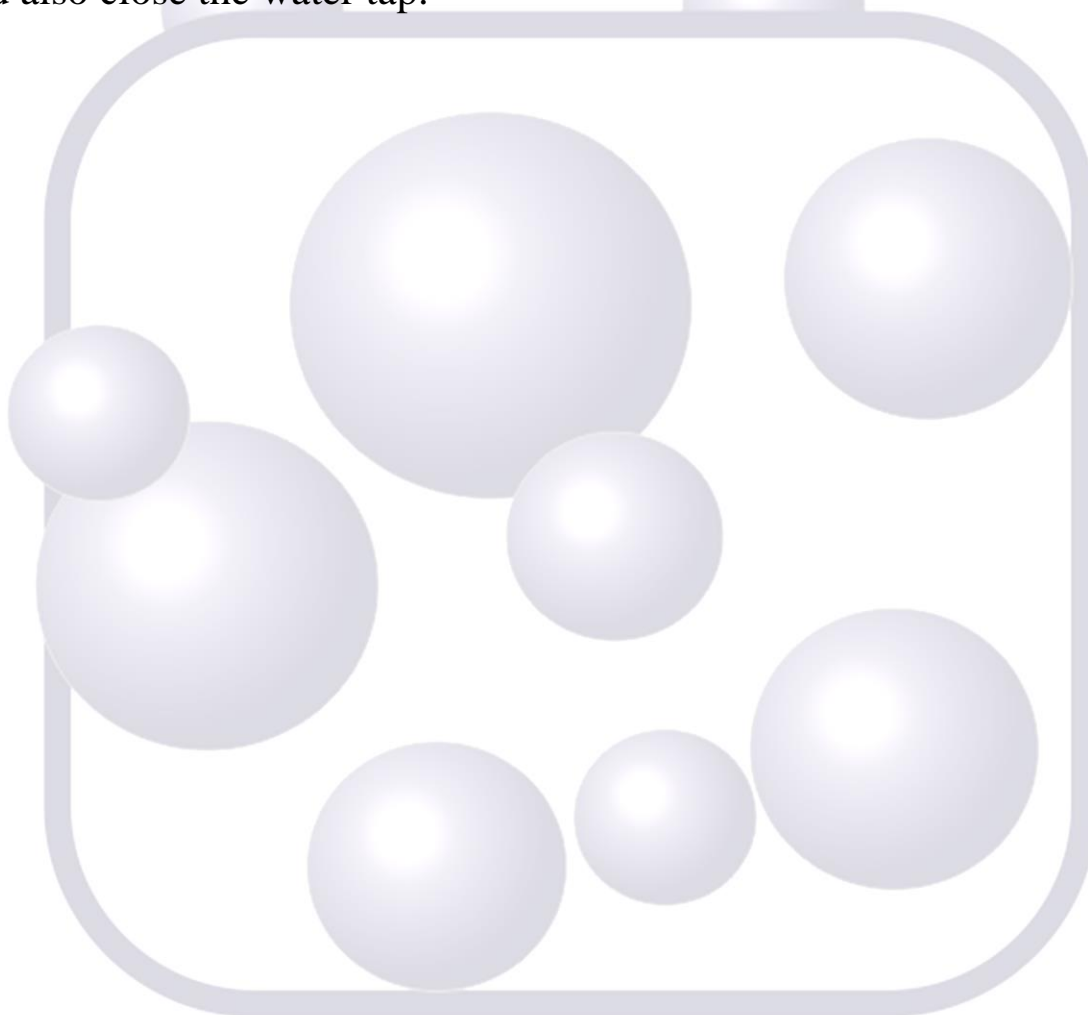
12 - Open water tap until water circulates inside the spiral pipes in condenser.

Warning and safety precautions:

If the sample is boiling, immediately turn the condense tap in a horizontal position to get open after boiling get stopped turn back to vertical mode.

Maintenance:

After completing the process, turn off the device and the vacuum pump and also close the water tap.



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