



STANDARD OPERATING PROCEDURE

Updated: 01-02-2022 Valid upto 01-08-2022

ROTARYFLASH EVAPORATOR

FUNCTION: To separate the solvent from the crude extract.

Standard Operating Procedure

- Remove the round bottom flask from the base of the condenser, directly above the hot bath. Inspect the flask to ensure it is clean.
- Load your sample into the cleaned round bottom flask.
- Attach the round bottom flask to the condenser. If need be, use vacuum grease to create a vacuum seal between the condenser and the round bottom flask. Be sure to use a clamp to secure the round bottom flask to the condenser.
- Inspect the collection flask located to the left of the hot bath, and below the condenser. Make sure the flask is clean before use.
- Make sure the tubing is securely connected to the back of the chiller and the condenser.
- Turn on the chiller using the power switch. The condenser should fill with water, if not already full. The chiller is normally set to 20 °C. If you need to change this temperature, use the controls located on the front of the chiller.
- Make sure the vacuum pump located next to the rotary evaporator is connected to the condenser. Make sure the release valve at the top of the condenser is turned to the closed position. Turn on the vacuum.
- Fill the hot bath with enough water for the round bottom flask to sit in.
- Switch on the main switch of RV10 and HB10 which is on the right hand side of user.
- Check the lifting operation by pressing the arrow keys which are on the left side. Lower the round bottom flask into the hot bath.



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- Set the desired RPM by rotating the rotary knob clockwise to increase, anticlockwise to decrease which is given for the RPM control which is towards the left side of RV10 user.
- Maximum RPM can be set up to 280 rpm and 200 rpm in interval option. Check Timer option by pressing timer touch button. The timing option has to display on the screen i.e., from 0 to 199 minutes. Check the interval option by pressing 'Int' button.
- To Start/Stop, press the rotary knob which is on the left hand side of the user.
- Set the desired temperature by rotating the rotary knob clockwise to increase, anticlockwise to decrease which is given for the temperature control which is towards the right side of HB 10 user.
- Check safe temperature of HB 10 by setting from 50°C to the maximum temperature of 190°C by turning the rotary knob head given on the right side of HB 10 user.
- After setting the desired temperature press the rotary knob for switching on the heater.
- If the process was successful, the higher boiling point substance will be left in the original round bottom flask, and the lower boiling point substance will be collected in the collection flask.
- Press the power button to turn the rotary evaporator off. If the entire system was lowered in step 11, the system will raise to its original height.
- Turn off the hot bath.
- Turn off the chiller using the power switch.
- Turn off the vacuum pump.
- Slowly vent the system by turning the release valve at the top of the condenser to the open position.



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- Make sure the round bottom flask is cool before removing it from the condenser. Remove your product from the round bottom flask and clean the flask.
- Remove the collection flask from the condenser setup. Remove your product from the collection flask and clean the flask.
- Replace the collection flask and the round bottom flask for the next user.

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