Quick Guide to Turbo Vap® LV

Start/Pause (1)

» Press once to start evaporation.

» Press once to pause/resume evaporation.

The green LED indicates various states:

» Blinking with **Time** display blinking (4): Evaporator is paused. Press **Start/Pause** to resume or **Stop** (2) to abort.

» On: Evaporation in progress

» Off with **Time** display blinking (4): Evaporator is stopped and cannot resume. Press **Start/Pause** and begin with the time remaining on the pushwheel.

Stop (2)

» Press to stop evaporation.

» Press and hold when turning power on to display **Time** in hours instead of minutes (default).

Temperature Display (3)

Shows the current water bath temperature in °C. The display will blink if water bath temperature is 2° ≥ set temperature.

Temperature Pushwheel

Sets the water bath temperature.

Time Display (4)

» Displays "--" during power up or after power failure.

» Displays remaining evaporation time in minutes (default) or hours.

» If you need longer evaporation times, press the **Stop** button (2) while turning the power on – the **Time** display will read in hours (indicated by a decimal point) instead of minutes.

» Display blinks when evaporation is paused or stopped.

See the diagnostics section of the Operator's Manual for a display of fault conditions.

Time Pushwheel

Sets the duration for evaporation. Set to "0" for continuous operation.

Gas Pressure (5)

The gauge indicates pressure in psi. The gas pressure is controlled by the knob on the left side of the unit.

Tube Stations (6)

Press to select the row of tubes to the immediate right of the button. A yellow light indicates that the row is selected.
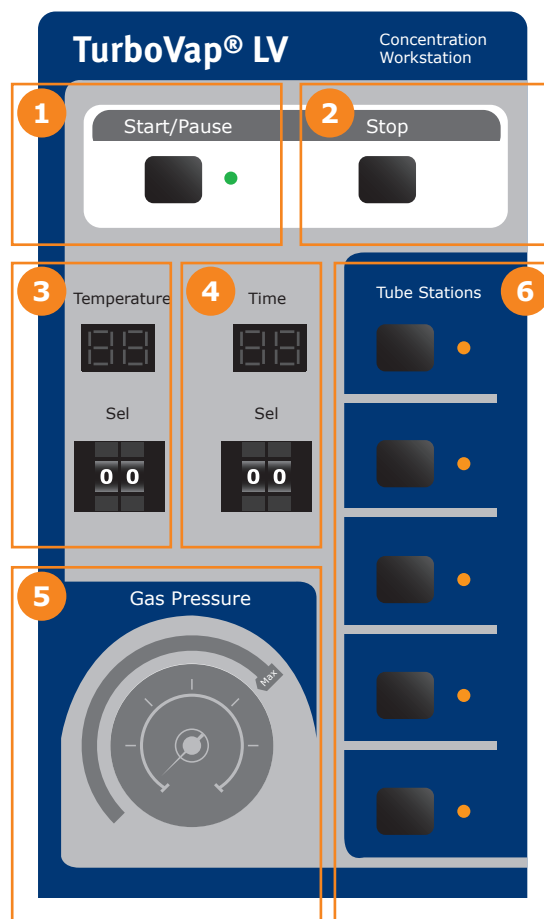

Figure 1. TurboVap® LV front panel.

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Daily Operation

Follow the steps below to operate the system. For more detailed instructions, see the Operator's Manual.

Prepare the Unit

The unit should always be turned on when a sample is inserted so the fan can remove exhaust.

1. Check the incoming gas supply for sufficient reserve.
2. Ensure that the water level in the bath is ≥ sample level.
3. Let the bath come to temperature. The display will stop blinking when the correct temperature is reached.
4. Check the gas pressure.
5. Open the cover and place the rack with sample tubes into the water bath. To minimize water evaporation, fill all unused positions with tubes and cover the gas nozzles.
6. Close the cover.

Start the Concentration Process

1. Set the evaporation **Time**.
2. Select the rows that contain sample tubes by pressing the corresponding **Tube Stations** button.
3. Press the **Start** button.

Stop the Concentration Process

» To pause evaporation (stop and continue) for all tubes, press **Start/Pause**. To continue operation, press **Start/Pause** again.

» To stop evaporation, press the **Stop** button.

» To stop the evaporation process for an individual row, press the corresponding **Tube Stations** button.

» Panel settings can be changed at any time.

Otherwise, when a cell reaches its a selected endpoint, its corresponding light blinks and the beeper sounds briefly every thirty seconds. Raise the cover to silence the beeper.

Remove the Sample

Quick removal of the completed tube is necessary, since:

» Highly volatile compounds can be lost if allowed to sit for an extended period of time.

» Steam from a water bath of over 50 °C can condense on the cover and possibly drip into sample tubes if they are left in place.

Remove the sample from the tube as recommended in the Operator's Manual: Slowly lift the rack of tubes out of the bath (using the handles), and slide to the right to drain. Once drained, remove the rack from the evaporator.

Shut Down

When the unit is no longer in use:

1. Leave the cover open to keep moisture from accumulating on the inside cover.
2. Clean the concentrator tubes.
3. Turn the power and gas supply off (optional).

Note: If the cover is opened while an operation is in progress. the evaporation pauses. Operation automatically resumes when the cover is closed.

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