

Quick Guide to Turbo Vap® II

Endpoint Selections (1)

Choose between four concentration modes:

- » **Time:** Concentrate for the time specified by the **Endpoint Time** setting on the panel. (3)
- » **Sensor:** Concentrate to an end volume (0.5 or 0.75 mL depending on the style of concentrator tube).
- » **Sensor and Time:** Concentrate past the 0.5 or 0.75 mL setting by the amount of time specified by the **Endpoint Time** setting. (3)
- » **Manual:** Manually control the concentration with the **Start/Stop** button for individual cells. (4)

See pages 3–4 of the Operator's Manual for more information.

Bath Temperature (2)

Set water bath temperature using the pushwheel. Must be less than 60° C if sensors are installed. The display blinks if temperature deviates ± 2 °C from 60 °C.

Endpoint Time (3)

Use this to set the time for either the **Time** or **Sensor and Time** endpoint selections. (1)

Cell Selections (4)

Start or stop the concentrator cell. The lights indicate the status of the cell.

- » On: concentrating
- » Off: not concentrating
- » Blinking: endpoint reached

Displayed Conditions (5)

Action (Selected)	Condition	Value	Description
All			Display cycles through pressure, temperature, and time.
Pressure	##	Pi	Pressure in psi.
	#. #	br	Pressure in bars (alternates).
Temperature	##	°C	Temperature in degrees centigrade.
Time Elapsed	# =	##	Tube position number and time in minutes.
		SE	Display during sensor portion of Sensor and Time concentration.
			If time exceeds 99 minutes.
		≡	If concentration stopped or not started.
Diagnostics			Varies, see Section 8 of the Operator's Manual.

Table 1. Select and view the current status of a particular condition.

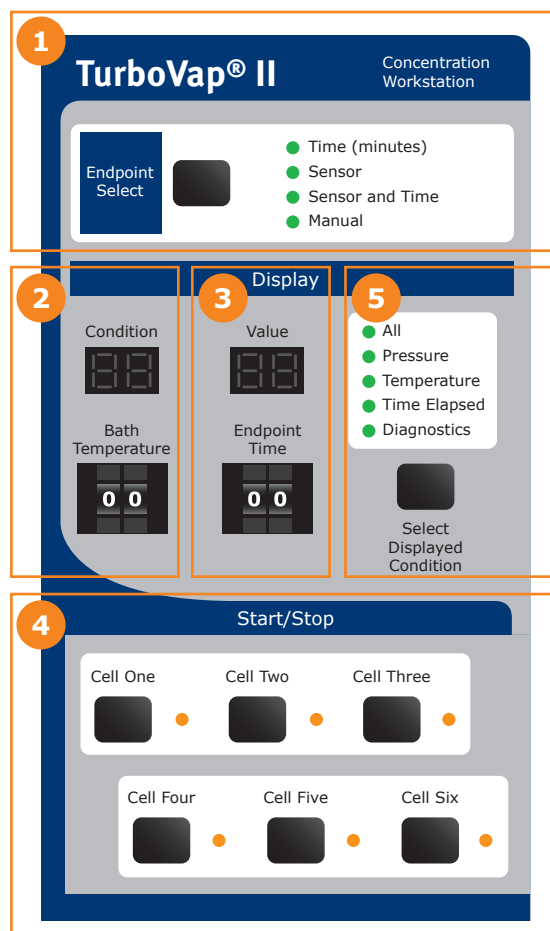


Figure 1. TurboVap® II front panel.

Daily Operation

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

Prepare the Unit (page 4.1)

1. Connect the gas supply.
2. Confirm that the rack matches the glassware used.
3. Ensure that the water level in the bath is above the sample level.
4. Close the cover, turn unit on and set **Bath Temperature**.
5. Select the **Temperature** display.
6. Let the bath reach the set temperature. The display will stop blinking when correct temperature is reached.
7. Prepare the glassware with sample.
8. Open the cover and place the glassware in the water bath.
9. Close the cover.

To minimize bath water evaporation, cover any unused positions with a plastic closure.

Start the Concentration Process (page 4.2)

1. Press **Endpoint Select** until the desired mode is selected.
2. If applicable, set the **Endpoint Time**.
3. Press **Select Displayed Conditions** until **Pressure** is selected. Pull out the regulator knob, adjust the gas pressure, and push the knob back in.
4. Press the **Start/Stop** button for each cell position used.

Stop the Concentration Process (page 4.3)

- » To pause concentration for all glassware, raise the cover. To continue, lower the cover.
- » To stop the concentration for an individual cell (i.e. to switch operation modes), press the **Start/Stop** key for the corresponding cell. Caution: This will reset the **Time Elapsed**.

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

Rapid beeping during concentration indicates low gas pressure. Check your gas supply.

Remove the Sample (page 4.4)

Remove the completed glassware quickly, 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.

Shut Down (page 4.5)

When the unit is no longer in use:

- » Replace the plastic closure in each cell position.
- » Leave the cover open to keep moisture from accumulating on the inside cover.
- » Clean the glassware.
- » Turn the power and gas supply off (optional).

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