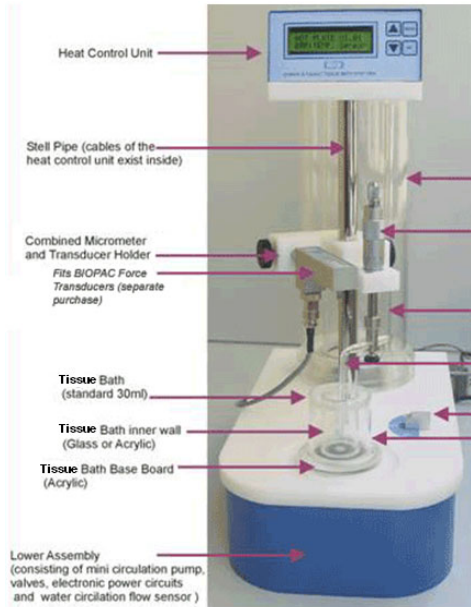
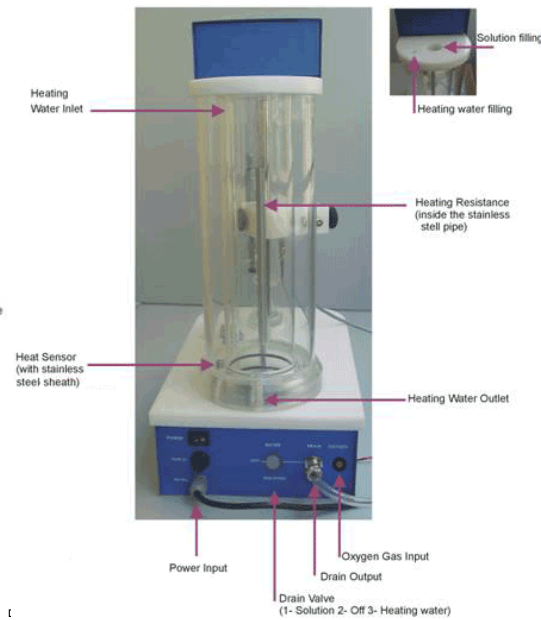


ITBS100 INTEGRATED TISSUE BATH STATION



Front of the ITBS100



Back of the ITBS100

The Integrated Tissue Bath and Heater System is a modular, durable solution for the lab. Features include:

- Jacketed bath and reservoir in a range of volumes
- Integrated, programmable heating circulator
- 500 ml/min circulation flow
- Movable micrometer-transducer assembly
- User-friendly display and controls
- One-switch control of fill and drain cycle
- Microprocessor control
- Low-level alarm for water temperature
- Acrylic, robust bath
- Small dimensions, lightweight

SPECIFICATIONS

- 1 x Bath —20 ml or 30 ml
- 1 x Reservoir—800 ml
- 1 x Integrated heater—1,600 ml volume, programmable temp. 20° - 44° C
- 1 x Circulator pump—15 W; 500 ml/min
- 1 x Micrometer-transducer assembly

- 2 x Triangle Tissue Clip—stainless steel; reorder as RXCLIP-TRI
- 2 x Tissue Clip—stainless steel; reorder as RXCLIP
- 1 x Tissue Holder—stainless steel; reorder as RXHOLDER-S
- 1 x 3-way rotary valve
- 1 x Power Supply—110 V/60 Hz or 220 V/50 Hz

BIOPAC Tissue Bath Systems utilize technology from **COMMAT Ltd.** Pharmacology, Physiology and Biophysics Instrumentation (Turkey).

ITBS100 SETUP INSTRUCTIONS

1. Connect the hoses.
 - a. Drain hose to the back panel DRAIN port and into a receptacle for the drained fluid (bucket, lab sink, etc.)—drain end should be lower than tissue bath station.
 - b. Oxygen hose from the OXYGEN valve to an oxygen source.
2. Turn the back panel dial (WATER—OFF—SOLUTION) to OFF.



3. Fill the reservoirs.



- a. Use the funnel to fill the reservoir heating jacket—smaller holes on the top of the reservoir—with water.
 - Water level must be above the indicator post that hangs down from the top.
 - The unit won't start if water drops below the indicator. The system alarm will sound and the heater will shut off.
- b. Use the funnel to fill the reservoir—larger holes on the top of the reservoir—with Krebs's solution.

4. Toggle the POWER switch on the back panel to ON.

- The power indicator light under the reservoir should flash **red**.

5. Set the heating temperature.



- a. Press MENU on the Heat Control Unit to display the heating temperature (the solution will be maintained at this temperature).
- b. Use the arrow keys to set to 37.5.
- c. Press OK.

6. Wait for the water to heat—display will change from HEATING to READY.

7. Check the water temp with a thermometer and, if necessary, set a temperature offset.

- a. Press MENU on the Heat Control Unit to display Set Offset.
- b. Use the up and down arrows to adjust the temperature (cold = +, hot = -).
- c. Press OK.
- d. Wait for the temperature to adjust to the desired heating temperature.

8. Fill the tissue bath.



- a. Turn the bath valve to FILL and watch the level rise—there is no auto OFF.
 - The reservoir will be depleted to fill the tissue bath.
 - The bath fills and drains from the bottom of the bath.
- b. When the desired level is reached, turn the bath valve to OFF.

After the experiment:

1. Toggle the POWER switch on the back panel to OFF.

2. Drain the tissue bath.



- a. Turn the bath valve to DRAIN.

3. Drain the reservoirs.



- a. Turn the back panel dial to WATER to drain the water.
- b. Turn the back panel dial to SOLUTION to drain the Krebs's.
- c. If necessary, tilt the station to completely drain it.

NOTE: ITBS100 Integrated Tissue Bath & Heater System was discontinued in 2013 and replaced by modular TISSUEBATH Stations (-1, -2, -4, or -8) and heating water CIRCULATOR.