

XH-1003 Lighted Tissue Floating Bath 28156 and 28156-230

Operation Manual





WARNING: If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

DISCLAIMER:

Ignorance of the warnings contained in this manual, that is, use of the 28156 and the 28156-230 Lighted Tissue Floating Bath in a manner that exceeds the given warnings, is an action that falls outside the specifications for the use of the equipment. In such a case, the distributor and manufacturer disclaim any and all liability (whether based in contract tort, strict liability, or otherwise), for any damages whatsoever, including direct, incidental, consequential, loss of business profits, or special damages, resulting from the misuse of these products, even if the distributor/manufacturer has been advised of the possibility of such damages.

XH-1003 Lighted Tissue Floating Bath

Prod. No. 28156 and 28156-230 Operation Manual

Table of Contents

IMPORTANT SAFETY INSTRUCTIONS	2
SPECIFICATIONS	3
UNPACKING the XH-1003 Lighted Tissue Floating Bath	4
SET UP of the XH-1003 Lighted Tissue Floating Bath	5
OPERATION	6
TROUBLESHOOTING.....	7
ERROR CODES.....	7



IMPORTANT SAFETY INSTRUCTIONS

1. Never leave the heater on and unattended.
2. Never leave the heater on without any water in the glass tray. This can damage the probe and the equipment.
3. Initial heating can fluctuate. A constant temperature will eventually settle in.
4. When using the equipment, fill with warm water if level drops below 1"(25mm) from the rim of the glass tray due to evaporation.
5. Frequently stirring water can help keep temperatures consistent throughout the water bath.

Recognize this symbol as a SAFETY message indicating risk of **danger**.



Recognize this symbol as a SAFETY message indicating risk of **electrocution**.



WARNING! Having water near or in contact with the power supply may cause electrical shock. To prevent fire or shock hazard, do not expose electrical unit to moisture.



WARNING! No user-serviceable parts inside. Refer servicing to qualified service personnel.

INTRODUCTION

XH-1003 Lighted Tissue Floating Bath

To ensure safety and obtain optimum performance and to familiarize yourself fully with the use of this equipment, we recommend that you review this manual thoroughly before operating the equipment. Retain this instruction manual in an easily accessible place near the work desk for future reference.

SPECIFICATIONS

Outside size:	14" (L) x 14" (W) x 4-1/2" (H) (355 x 355 x 114mm)
Glass tray interior size:	10" (L) x 6-1/2" (W) x 2" (H) (254 x 165 x 51mm)
Voltage:	115V / 60Hz or 230V / 50Hz
Temperature:	Room temp to 70°C, ± 2°C (158°F, ± 3.5°F)
Precision:	0.1°C (0.2°F)
Power:	450W
Default setting:	65°C (149°F)
Net weight:	19 lbs. 8.6kg.
Recommended relative humidity:	<80%
Fuse Requirement:	10A / 250V

UNPACKING the XH-1003 Lighted Tissue Floating Bath

Inspect the **XH-1003 Lighted Tissue Floating Bath** for any damage. If there is any damage present, immediately notify Ted Pella Inc. (Phone: 800-237-3526; Fax: 530-243-3761) and the appropriate commercial carrier. Please retain the shipping container and all contents including the packaging material. Do not discard anything. Notify our Customer Service Department of the problem and supply us with the following information from the Packing Slip:

- a) Ted Pella, Inc. Packing Slip Order Number.
- b) Your Purchase Order Number.
- c) Your Customer Code Number.
- d) Catalog Product Number and quantities of the damaged items.
- e) A short description of the damage.

Immediately contact the carrier and arrange for an inspection ("request an inspection"). After the inspection is completed, please request and obtain a copy of the damage report from the carrier company's inspector or representative.

Do not return damaged shipments until a claim has been filed, the inspection is complete and the report has been received by you.

Obtain an RMA number from our Customer Service Department, who will assist you with return/replacement details.

Please fill out the warranty card and return it to us.

SET UP of the XH-1003 Lighted Tissue Floating Bath

- (1) Remove the machine from the box and place the equipment on a safe stable location near an electrical outlet (115V unless made for 230V). Keep all original packaging in storage.
- (2) Remove the glass tray and look for any visible damage to the machine, glass tray or its contents. Please use the instructions above for handling issues regarding shipping damage.
- (3) Flip metal thermostat sensor up (out of the way) and insert the glass tray into the proper position in the middle of the machine.
- (4) Flip the thermostat sensor down into place inside the glass tray. If this is not done, the bath will not heat.
- (5) Fill the glass tray with DI or Distilled water to the point that the sensor is submerged and at least 25mm (1") from the top of the glass tray. (**Figure 1**)



WARNING! Never leave heater on without water in the glass tray. If the water level falls below the probe, the controller will stop heating and the probe could be damaged.

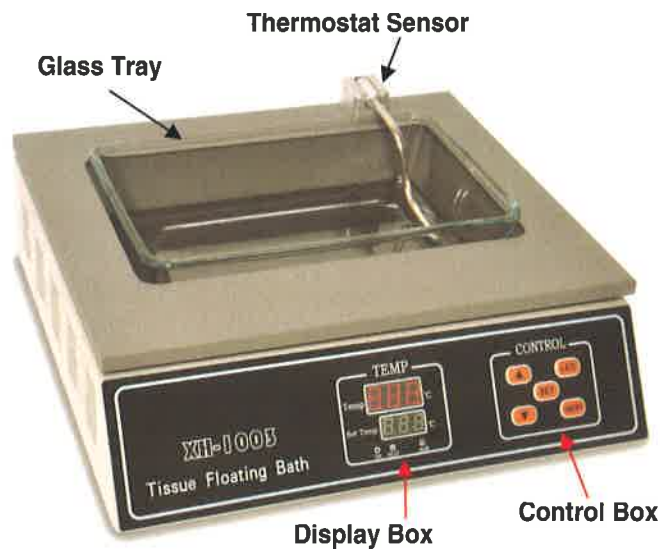


Figure 1

OPERATION



WARNING! - Having water near or in contact with power supply may cause electrical shock and may also cause damage to the machine.

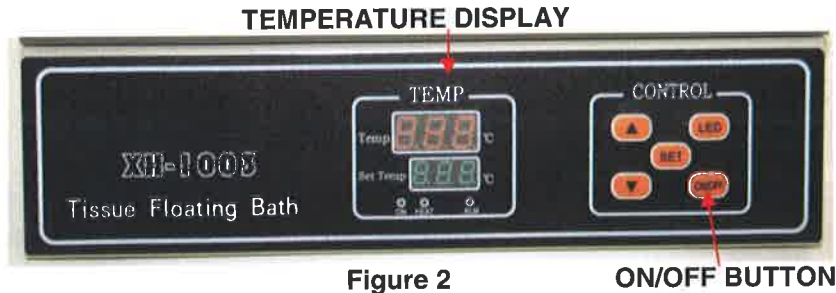


Figure 2

ON/OFF BUTTON

1. Insert the power cord into the back of the unit. Plug the cord into the electrical outlet. Flip the switch to the "on" position on the back of the unit near the power outlet.
2. In the "Control" box portion of the front panel press the "ON / OFF" button. (Figure 2).
3. The "Temperature Display" box will light up and indicate the actual temperature (upper display) and the set temperature (lower display).
4. To adjust the "Set Temp", push the "Set" button in the "Control" display. In the "Temp" display the top (larger) display will read "SP". Using the up and down arrows in the "Control" display, adjust the temperature to your desired setting. Allow ample time for the tissue-floating bath to warm up. The temperature range is from room temperature to 70°C. Once the tissue-floating bath reaches your predetermined set temperature, the heat indicator light will turn off indicating that the heater is off and is holding at that temperature.
5. To adjust the length of time you want the unit to be operating, press the "Set" button again and the top (larger) box will read "ST" (looks like "sr" in the display box). You can now use the up or down arrow and set the unit to run for a specific amount of time or turn this setting to "0" to run continuously.

NOTE: Timer range is 0 – 120 minutes. Setting timer to 000 will run the unit continuously.

6. Press the "Set" button again to return to the main display showing the Actual and Set temperatures.
7. To turn the LED lights on for the water bath, push the "LED" button in the "Control" section.
8. Before using the unit, please check the temperature with a thermometer to make sure that your water is not above the appropriate melting point of your paraffin. (Your paraffin package should indicate melting point of the paraffin you are using.)

MAINTENANCE

- 1) Unplug the machine when not in use
- 2) Use only **DI** or distilled water.
- 3) Wipe base with damp cloth regularly, but do not attempt to service the machine.

TROUBLESHOOTING

- 1) Unit does not turn on:
 - a) Make sure the power cord is plugged into the back and into the power outlet.
 - b) Make sure the switch in the back is in the "on" position before pressing the "on/off" button on the front of the water bath.
 - c) Replace fuse. Use a screw driver to open the fuse box, which is located in the outlet cover.
- 2) Unit heats up and continues to heat up and then alarm sounds - Recalibrate with the below instructions.
 - a) Fill the water to 25mm (1") from top with cold or room temperature water.
 - b) Insert a lab thermometer into the cold water to get the current temperature.
 - c) Turn the lighted tissue floating bath on.
 - d) Set the "Set Temp" of the lighted tissue floating bath to 30 degrees C above the reading of your inserted lab thermometer temperature. Example: if the thermometer reads 20°C, set the unit to 50°C.
 - e) Recalibrate by holding the "Down Arrow" until the "on" light begins to flash. It will take several seconds for the light to begin flashing.
 - f) Leave water bath alone for 2 hours as recalibration process occurs. During this time do not add to or stir the water.

ERROR CODES

An error condition exists when the beeper sounds the alarm and the display flashes an error code. The error code indicates one of the specific problems below:

E0—Sensor not detected or sensor failure from the general system.

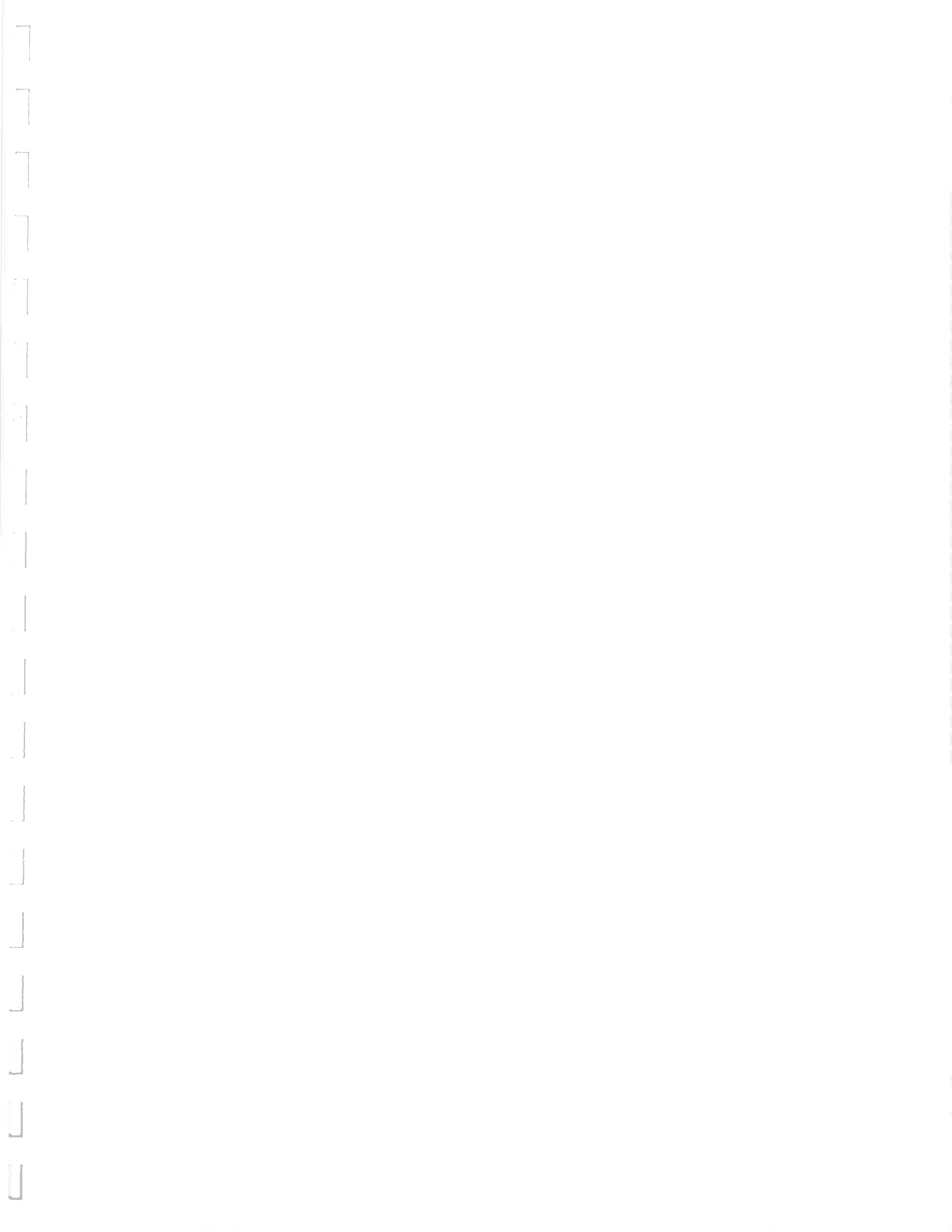
E1—The actual temperature of the bath is greater than 10°C over the set temperature.

E2—No increase detected in bath temperature with bath heater on. Possibilities are

- a) Temperature probe not placed in the water
- b) Magnetic detector failure
- c) Heater may be damaged.

Consumables/Accessories:

Microscope slides	Product # 260440	Pkg/144
Slide holder strip	Product #2236	ea
Slide holder	Product # 2235	Pkg/6
Drain Rack	Product # 22530-10 through 22530-14	Case/10





4595 Mountain Lakes Blvd, Redding, CA 96003-1448 U.S.A.
P. O. Box 492477, Redding, CA 96049-2477
Telephone: 530-243-2200 800-237-3526 (U.S.A. or Canada)
Fax: 530-243-3761 Email: sales@tedpella.com Web Site: <http://www.tedpella.com>

©Ted Pella, Inc., April 19, 2012. Printed in U.S.A.

PELCO is a registered trademark,
Part No. 28156-1