

### Simple DO's & Dont's

**Do Not** place the head unit incorrectly. Ensure the measurements are displaced on the inside of the bath as depicted.

**Do Not** remove the sensor from within the bath. This ensures that the temperature is controlled at all times whilst the bath is on.

**Do** ensure the waterbath is on a level surfact at all times.

**Do Not** submerge the head unit in water within the bath at any time. If this happens turn off and unplug at the mains and do not re-use the unit until it has been inspected by Irwin Science Education.

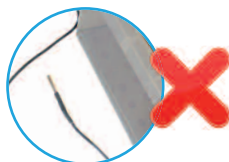
**Do Not** leave the waterbath unattended for long periods of time.



**CORRECT**



**INCORRECT**



**DO NOT** remove sensor from waterbath

### Specification

Class 1, Voltage 230/240V ac, Current 2.2A, Power 500W

### Electromagnetic Compatibility

The use of this apparatus outside the classroom, laboratory, study area or similar such place invalidates the conformity with the protection requirements of the Electromagnetic Conformity Directive (89/336/EEC) and could lead to prosecution.

The Irwin WB8 is a digitally controlled, 8 litre water bath with a rugged plastic case and digital temperature controller.

*All Irwin products are designed and tested for use in educational establishments only.*

Irwin Science Education Ltd - Tel 01376 340 506

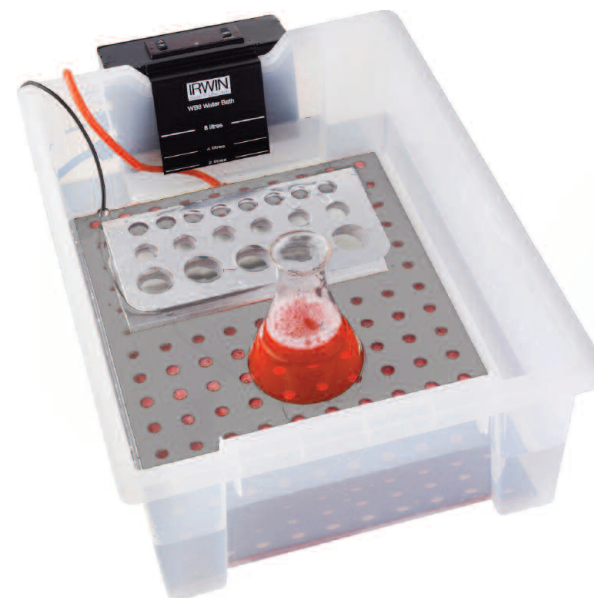
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**IRWIN**  
Science Education

# 60° WATER BATH OPERATING INSTRUCTIONS



### Overview

The Irwin water bath is specifically designed for School Science Departments. It is built around a GrateNells deep tray and so can be stored in a GrateNells trolley. Water capacity is from 2 to 8 litres. Because of the shallow profile of the heating element, 3 litres of water gives the equivalent depth to 8 litres in a Clifton Bath, thus it reaches temperature much faster. Digital temperature control will maintain the water temperature within 1 degree Centigrade with it's 500W silicone heating element, Particularly suitable for hard water areas as the element may be easily removed and cleaned Gives additional bench space in the prep room. Light and easy to carry.

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## Using the Irwin Waterbath

1. Unpack the unit and place on a flat, level surface.
2. Slip the control unit onto the end of the tray that has the deep depression so that the controller hangs on the outside of the tray.
3. Add 2-8 litres of tap water to the bath. Due to the low profile of the heater, usually 3-4 litres is sufficient. This is the equivalent of a normal 8-12 litre water bath. The speed at which the bath heats up will depend on the amount of water used. The temperature sensor is clipped to the steel base and it's position should not be changed. When used in this way the unit is protected against overheating when running dry. Caution. Do not plug in the water bath without first adding the water and ensuring the temperature sensor is submerged.
4. Plug into the mains. The controller should illuminate and display the water temperature.
5. Briefly press the SET button and then use the up down arrows to set the required temperature. Press SET again to load the temperature into the memory. Your water bath will now heat up to the required temperature and maintain it within 1°C.

Water loss by evaporation may be minimised by using the supplied Grathnell lid. We recommend that the lid be used when temperatures above 37°C are employed. Should you need to heat unusually tall glassware the lid may be cut to accommodate this.

For storage, thoroughly dry the bath, lift the controller from the tray rotate it 180° and slip it back on the tray such that the flat plate is to the outside of the tray. This allows the unit to be easily located within the storage trolley.

**N.B. WARNING! Do not set the maximum temperature above 60°C.** Doing so will invalidate your warranty and can be dangerous.



### Low level float switch

As a safety feature the waterbath is equipped with a low level water sensor. In the event of the water becoming too low within the waterbath the error message 'LL' will appear within the LED display on the control unit. To remove the message and to continue using your waterbath please add water to the desired level.

## Using the Hidden Menu

The hidden menu may be accessed by pressing and holding the SET button down for 10 seconds. The LED display will show E1. Briefly press SET and toggle through the menu options using the up/down keys to change settings. Once you have made changes, leave the unit for about 6 seconds to exit to the menu to resume normal operation.



The Irwin waterbath head unit showing the maximum temperature limit setting.

Code	Function	Set range	Default
E1	Lower setpoint limit	-20° - set temp	10°C
E2	Maximum temperature limitset	temp - 280°C	60°C
E3	Temperature Hysteresis	1 - 100°C	1°C
E4	Comp start delay time	0 - 10 min	0 min
E5	Cold room sensor correction	-50 - 50°C	0°C
C/F	Celcius/Farenheit		°C

**The default column shows the settings as set by our factory. The only one that you should alter in normal use is E2, which sets the maximum available temperature.**

### Parameters Unlocking

In normal operating, press the down button for 6 seconds to lock the parameters if OFF displayed or, to unlock, if ON is displayed. Parameters can be displayed only and can not be modified if locked, but adjustment of the set temperature is active (factory default is ON).

### Don't Panic!

If you cannot alter any of the hidden menu parameters, and setting the parameters unlocking does not work, then perform a manufacturer's reset (this is different from a factory reset). Proceed as follows:

1. Press the down arrow for 1 second
2. Whilst continuing to hold down the down arrow, press the up arrow for 6 seconds - the display will flash.
3. Release the button and wait for 10 seconds to leave the menu.
4. Set the defaults for E1 - E5 as above.

**Please Note.** When the unit is heating up a small wavy line image is displayed.