USA Dry Bath Incubator

Instruction Manual



Designed, Engineered &
Assembled Proudly in USA

Introduction

The LW Scientific Dry Bath Incubator is designed to be used for a broad range of applications. Stable temperatures and even heating make this two block unit perfect for use in clinical, biological, and even industrial lab settings. The 12v electronics make it portable when the optional battery cords are purchased – perfect for use by medical and veterinary professionals in the field. Economical and dependable, the LW Scientific Dry Bath Incubator offers users the choice to mix and match two popular standard heat blocks, while numerous other block configurations are available. Plus, the LWS Dry Bath Incubator will accommodate many other common brands of heat blocks.

Notes for Safe Use

- Do not operate unit in or near water or other liquids.
- Unplug unit before cleaning or repairing.
- Do not use if electrical cord is damaged.

Note: All hard surfaces of the dry bath incubator may be cleaned with common laboratory disinfectants.
Only the heat blocks are autoclavable.

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Unpacking & Set Up

1. Carefully unpack the dry bath incubator and included power adapter, saving packing materials in the unlikely event you need to return the item. Immediately contact your distributor if you detect any damage. If you need to return the dry bath to LW Scientific, please use the original packing material.
2. Place dry bath on a flat, stable surface away from the edges. Ensure that the controls are set in the "OFF" position.
3. Connect the included power adapter to the dry bath, attach the included line cord, and then plug it into a properly grounded electrical outlet. (Use only the supplied power adapter and plug.)
4. Congratulations! You are now ready to use your LW Scientific Dry Bath Incubator.
5. The dry bath includes 1 lift rod to make it easier to change the blocks.

Caution: As with any temperature controlled equipment, take care not to touch the blocks while the equipment is in use. Hot surfaces, especially on the block, can cause serious injury or burns.

Do not put water or liquids into the dry bath well.

LW Scientific is not responsible for any injury caused by misuse or abuse of this equipment.

PID Controller

All programming functions of the PID controller have been preset by LW Scientific, and the temperature has been preset to 98.6°F (37°C). There are many complicated programming functions built into the PID controller, which should not be altered by the customer. The only two functions that may need to be adjusted by the customer are "Set Temperature" and "Change from Fahrenheit to Celsius" as described below. For any questions about altering other programming, please contact the LW Scientific technical support department at 800-726-7345 (770-270-1394).

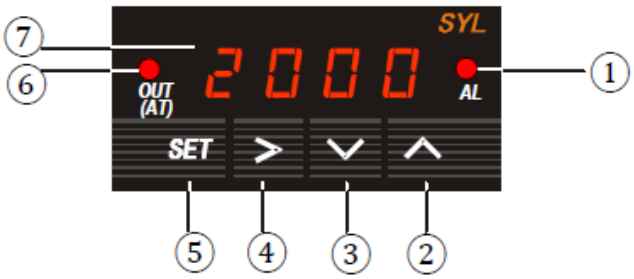

Figure 1. Front panel

1. AL- Relay output indicator
2. Value increment / Select next parameter
3. Value decrement / Select previous parameter
4. Auto tuning / Digit shift
5. Set / Confirm
6. Will not illuminate
7. The temperature of the blocks (Process Value, or PV) is displayed during operation. The target temperature (Set value or SV) is displayed when flashing by pressing the V or ∧ key once.

Operation

1. Insert the desired heat blocks into the recessed area on the top of the dry bath.
2. Turn on the lighted Power Switch.
3. Set Temperature: (recommended maximum set temperature not to exceed: 150°F)
    - **A** Press V or Λ once to display set temp. Display will blink.
    - **B** Press V or Λ again to increase or decrease set value.
    - **C** Wait 8 seconds and the new set value will take effect and the display will stop blinking.
    - **D** **To Change from Fahrenheit to Celsius**: **Warning – if you are changing from F to C, lower the temperature setting to 37°C FIRST so the unit doesn't try to achieve 98.6 C**
        - **i** Press SET. The display will show "0000."
        - **ii** Press the > button to select digits, then press the Λ button to change display to program function "0089."
        - **iii** Press SET again. The display will show "Inty."
        - **iv** Press the down arrow V twice until you see "C or F."
        - **v** Press SET again. The display will show either "0" or "1."
        - **vi** Press the Λ button and choose "0" for Celsius or "1" for Fahrenheit.
        - **vii** Press SET again.
        - **viii** Press the Λ button until you see "End."
        - **ix** Press SET again.
4. Once you have set the desired temperature, insert your specimen tubes into the chambers in the heat blocks.
5. Use the provided lift rod or allow blocks to cool before changing or removing from the dry bath.
6. Never insert any items other than test tubes into the heat blocks.

Specifications

Temperature range:	Ambient +2°F up to 150°F
Accuracy:	+/- 0.3°F
Power:	Auto-switching CE/cUL approved power adapter
Output:	12vDC/8amp
Input:	100-240VAC 50/60Hz
Preset at:	98.6°F (37°C)
Display:	LED digital display
Capacity:	2 blocks

Bath Dimensions:	
Width:	7.5 in (19 cm)
Depth:	7.5 in (19.5 cm)
Height:	4 in (10.7cm)
Weight:	2.35 lbs (1 kg)

Block Dimensions:	
Width:	3.7 in (9.5 cm)
Depth:	3 in (7.5 cm)
Height:	2 in (5 cm)
Weight:	1.5 lbs (.7 kg)

Portable Accessories

12v Cigarette Plug Cord
PTA-ADCL-10DC

Battery Clamps for Cigarette Plug
PTA-ADBA-12V7

Warning: The Dry Bath should be set to a normal body temperature under normal operating conditions. Any temperature setting greater than 110°C might cause a personal burn injury.

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