



Models pictured:

Ready Warm Wall Incubator &
Warming Station



Safety

Caution: Read and follow the operating instructions fully before use.



Warning: Surface can become hot during use.

• The Ready Warm should be set to a normal body temperature under normal operating conditions. The Ready Warm should not be set at a temperature above 122° degrees F (50° C). If the Ready Warm is set to a higher temperature, there could be a risk of personal burn injury.

- Do not leave the unit unattended for extended periods. Regularly monitor the incubator when in use.
- Connect only to a power supply that provides a safety ground terminal.
- Ensure that the power switch is easily accessible during use.
- To avoid injury, do not check temperature by touch. Use the temperature display or a thermometer.
- Do not block or restrict ventilation slots.
- If liquid is spilled inside the unit, disconnect it from the power supply and have it checked by a competent person.
- It is the user's responsibility to carry out the appropriate decontamination if hazardous material is spilled on or inside the equipment.

Unpacking & Set Up

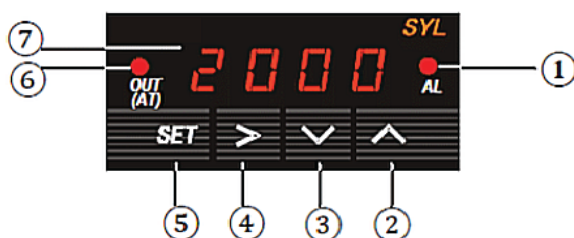
- 1 Carefully unpack the Ready Warm and included power adapter, saving packing materials in the unlikely event you need to return the item. Immediately contact your distributor if you detect any damage. If you need to return the Ready Warm to LW Scientific, please use the original packing material.
- 2 Place Ready Warm on a flat, stable surface away from the edges. Ensure that the power switch is set in the "OFF" position.
- 3 Connect the included power adapter to the Ready Warm, attach the provided line cord, and then plug it into a properly grounded electrical outlet. (Use only the supplied power adapter and plug.)



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

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

Panel Description



- 1 AL - This visual alarm alerts when the actual internal temperature exceeds set temperature
- 2 Value increment / Select next parameter
- 3 Value decrement / Select previous parameter
- 4 Shift digit place / Long press to begin automatic tuning
- 5 Set / Confirm
- 6 Indicates output power to heating element when illuminated
- 7 The temperature of the stage (Process Value, or PV) is displayed during operation. The target temperature (Set value or SV) is displayed, flashing, by pressing the v or ^ key once. The display will revert back to the actual temperature after 8 seconds of no input.

Quick Start Guide

The Ready Warm ships from the manufacturer preset to 100°F (37.8°C).

- 1 Turn on the red main power switch located on the top of the unit. When the Ready Warm is first powered on, the unit will show the temperature as read by the built-in temperature sensor. Additionally, the unit will immediately begin running to reach the preset temperature.
- 2 Press ^ once and the display will show the preset temperature. The factory preset is set at 100°F. After 8 seconds without any input, the display will revert back to the temperature as read by the built-in temperature sensor.
- 3 The Ready Warm will stabilize at 100°F within 45 minutes.

Operation

This unit comes pre-programmed and calibrated, so it is ready for immediate use. LW Scientific has preset all the programming functions of the PID Controller.

The only three settings that may need to be adjusted are: 'Set Temperature', 'Change from °F to °C', 'Temperature Offset'.

To turn on the incubator, switch the power switch located on the front top face to the ON position. Allow the incubator to reach the set temperature and stabilize. After approximately 45 minutes, the unit is ready for use.

Using the PID Temperature Controller

This incubator has been calibrated for accuracy and the unit has been shipped from LW Scientific set to 100 degrees Fahrenheit. The PID Temperature controller will be illuminated when the power is turned on to the incubator. Once turned on, the PID will show the actual temperature of the interior of the incubator, and the temperature will gradually increase until it reaches the preset temperature.

When switching between Fahrenheit and Celsius, the set temperature value will not automatically adjust. To avoid abnormal operating temperatures when switching from Fahrenheit to Celsius, you should first adjust the set temperature to the desired value in Celsius, and then change the Display Unit to Celsius. This will ensure the unit operates at the correct temperature after switching the temperature scale.

Change from Fahrenheit to Celsius

If the units need to be changed to Celsius, access the PROGRAM MODE on the PID controller.

Press SET
Enter code 0089 and press SET
Press "v" until the display reads "CorF"
Press SET and use "^" until the display reads "0", for Celsius
Press SET, then use "^" until the display reads "END"
Press SET to exit.

Change Set Temperature

Press ^ or v once to display Set Temperature. The display will blink.
Press ^ or v again to increase or decrease the Set Temperature value.
Wait 8 seconds and the new Set Temperature value will take effect and stop blinking.
Allow the incubator to reach the set temperature value and stabilize, around 45 minutes.

Change Temperature Offset

The temperature offset will not normally need adjustment; however, if the incubator needs an offset to correct for differences between the displayed temperature and the actual temperature of the unit, the Temperature Offset may be changed. If the offset needs to be changed, access the programming mode on the PID controller.

Press SET
Enter code 0089 and press SET
Press "v" until the display reads "Psb"
Press SET and use "^" or "v" to enter the desired offset value

Example: If the unit displays 100°F, inputting an offset of -10 will make the controller display 90°F.

Conversely, inputting an offset of 10 will make the controller display 110°F. After adjusting the offset, the controller will drive the unit to stabilize at the new value. For negative offset values, shift to the leftmost place value using ">" and use "v" until "-" is on the display.

Press SET, and then "^" until the display reads "END"
Press SET to exit

Code		Description	Setting Range	Default
inty	Inty	Input Sensor Type	Do not change from default value	P10 0
End	End	Exit		
CorF	CorF	Display Unit	0: °C 1: °F	1
rd	rd	Control Function	Do not change from default value	0
PSb	PSb	Input Offset	-100~100(deg)	0
Hy	Hy	Hysteresis Band	Do not change from default value	3
outy	outy	Control Output Mode	Do not change from default value	2



WARNING: Never set Temperature Value above 122°F.

Installation

To begin the wall installation, pick a suitable location close to a power outlet. Once you have a location, set the height you want the unit mounted at (typically eye level), then using a level and the wall mount you can mark the location of the mounting holes. If mounting to a stud, use the two central mounting holes. If mounting through drywall only, mark the 4 outer holes and use the wall anchors. If using the anchors, you will need a 3/8" drill bit appropriate for the wall material to drill the holes for the anchors. Reference figure 1 for details.

Figure 1

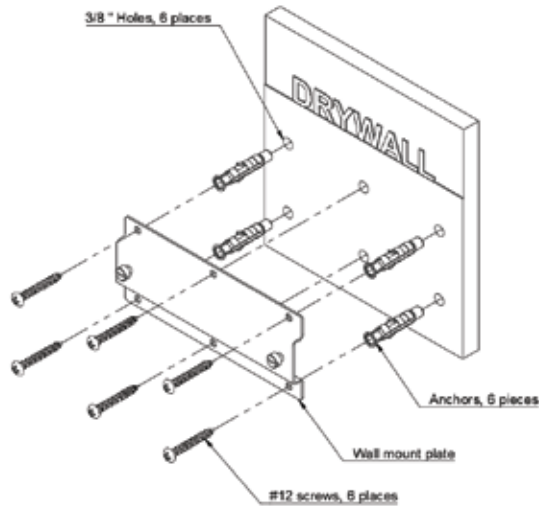
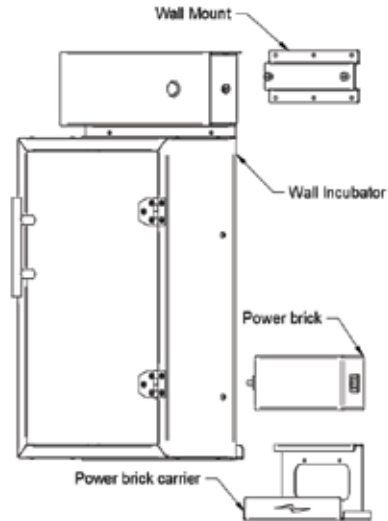


Figure 2



Once you have the wall mount installed, you can hang the Ready Warm Wall Incubator on the wall mount. There are two keyhole slots on the rear that will fit over the wall mount shoulder bolts. Next slide the power brick carrier onto the bottom of the Wall Incubator unit by hooking it over the lower lip and allowing it to hang. The power brick sits in the retainer to alleviate stress on the power connections. **DO NOT HANG POWER BRICK FROM POWER JACK.**

Additional mounting holes are located on the power brick carrier. Installing the bottom screws will lock the Ready Warm in place and prevent it from moving while operating the door, or accidentally being removed from the wall mount. These lower screws must be removed before the Ready Warm can be removed from the wall.

Specifications

Power:

Input: 100-240V, 50/60Hz
Output: 24VDC

Weight and Dimensions:

Weight: 21.5lbs

Exterior:

Height: 26in (660.4mm)
Width: 12in (304.8mm)
Depth: 7.5in (190.5mm)

Interior:

Height: 16.5in (419.1mm)
Width: 12in (304.8mm)
Depth: 4.5in (114.3mm)