

# Water Bath Instructions

LVDALAB's water baths are beautiful, finely crafted, and made of sturdy materials. The inner tank and heating element are made of 304 stainless steel. They offer precise temperature control and are available with optional timer and dry-boil prevention features.

## Instructions

When using the water bath, place it on a stable, dry surface. Do not plug it in yet. Always fill the water bath with clean water, ensuring it is at least a few centimeters above the heating element. Also, be sure to monitor the water level and keep the heating element submerged. If it's exposed, it will burn out.

After adding water, secure the shelf and container. Then, set the temperature or time.

## Unscheduled Model

Meter Description: PV is the current temperature, SV is the desired set temperature. SET is the setting key, followed by the shift key, minus, and plus keys. Press SET (**remember not to hold it down. If you do, do not press another key before pressing SET again to return**). SV (the lower row of data) will flash. Press the shift key to adjust to the desired digit. For example, if you want to set the temperature to 80 degrees, move to the tens place, press plus or minus to adjust to 8, then move to the ones place and adjust to 0. Finally, press SET to return.

## Timed Model

The temperature setting method for the meter is the same as for the unscheduled model and will not be explained here.

**To set the time:** Press SET once (**do not hold down**). The set temperature will appear. If the setting is incorrect, adjust it. If it's not needed, press SET again. The set time will appear. The time unit is minutes. For example, if you set it to 90, it will be 90 minutes. If you don't need the time, set it to 0000.

This timer is used to set the temperature to 80 degrees Celsius and then 90 minutes. The meter will start counting when it first reaches 80 degrees Celsius and will stop heating after 90 minutes. If you do not set the timer, set it to 0000, the meter will continue heating and you will need to manually turn it off.

## Temperature Compensation Function

1. Press and hold the SET button until AL1 appears, then release it. Then press the SET button once. The code above will change.
2. Continue to press the SET button until the code above changes to SC. Change the value below. If the actual temperature is lower, decrease it by the desired value. If it is higher, increase it.

3. After making changes, press SET to save, then press and hold SET to return to the normal screen.



## Introduction to dry-heat prevention.

The principle of dry-heat prevention is similar to a float. If the water level is insufficient and does not reach the point indicated by the arrow, the float will not touch the heating element, the heater will not be powered, and the device will not heat up. Once the water level is sufficient and the device has been used for a while, the float will drop and the float will no longer contact the spring, preventing heating. This maintains the heater element's power.



Multiple specifications - electric constant temperature water bath								
Model	DXY— 2L	DXY— 5L	DXY— 7L	DXY— 10L	DXY-12 L	DXY— 20L	DXY— 30L	DXY— 40L
Inner Chamber	110*16 5 Height	132*20 5 Height	152*24 6 Height	168*26 6 Height	178*28 6 Height	235*35 0 Height	245*40 0 Height	275*44 5 Height

<b>Dimensions (mm) Height * Diameter</b>	*	*	*	*	*	*	*	*
	Diameter	Diameter	Diameter	Diameter	Diameter	Diameter	Diameter	Diameter
<b>External Dimensions (mm) (Length * Width * Height)</b>	266*212*155	337*276*190	383*323*212	400*338*227	420*361*238	495*420*355	540*460*340	590*600*400
<b>Heating Tube Diameter</b>	115mm	150mm	190mm	220mm	220mm	275mm	310mm	350mm
<b>Heating Power</b>	300W	300W	600W	800W	1000W	1500W	2200W	3000W
<b>Timer Function</b>	None	Optional 9999 minutes				9999 minutes		
<b>Temperature Control Range</b>	±1°C	Room temperature +5-100°C						
<b>Temperature Control Accuracy</b>	±0.5°C							
<b>Dry-Boil Prevention</b>	None							
<b>Material</b>	Stainless steel liner							

				
<b>Model</b>	DXY-1 (single hole)	DXY-2 (double hole)	DXY-4 (four holes)	DXY-6 (six holes)
<b>Inner Tank Dimensions (mm)</b>	151*137*147	298*151*147	326*298*147	497*300*147
<b>External Dimensions (mm) (L*W*H)</b>	180*165*260	330*182*260	358*327*260	530*327*260
<b>Heating Power</b>	300W	800W	1000W	1500W
<b>Temperature Control Range</b>	Room temperature +5°C - 100°C			
<b>Temperature Control Accuracy</b>	±0.5°C			
<b>Timer</b>	999 minutes optional			
<b>Anti-Dry Boil</b>	Optional			
<b>Material</b>	Stainless steel inner tank			

**Note:** This is the basic model. You can choose a timer, a dry-dry feature, or both.

For a timer, add the suffix "T," for a dry-dry feature, add "F," or for both, add "TF."

(The parameters of the all-stainless steel model are the same, except that the shell is also made of 304 stainless steel)

## Precautions

1. Always pay attention to the water level and avoid dry heating. Dry heating, when the heating element is red hot, can damage the instrument and potentially cause a fire.
2. Place the water bath in a dry, safe environment on a stable surface.
3. Keep circuit boards and other items away from the water bath.
4. Avoid moving the instrument when it is hot to avoid burns.
5. Ensure adequate ventilation and pay attention to the characteristics and safe temperature requirements of the sample you are heating.
6. Be aware of the hazards of strong acids and bases to yourself and avoid corrosion to the instrument.