



PATHOLOGICAL ANATOMY

TISSUE WATER BATHS



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Tissue Water Bath

Model YR449

Technical Characteristics:

- ✓ Temperature Range: continuously adjusted in a range of RT to 90 °C and maintained automatically
- ✓ Temperature Control Precision: $\pm 1^{\circ}\text{C}$;
- ✓ Dimensions of Water Bath Dish: 240×180×50mm(W×D×H)
- ✓ Working Voltage: AC 220V $\pm 10\%$ 50Hz (standard model) AC 110V $\pm 10\%$ 60Hz
- ✓ Power: 200W
- ✓ Dimensions: 360×350×120mm (W×D×H)
- ✓ Net Weight: 5kg

The cooling process is an essential step in every histology lab, because it is a fundamental procedure in order to make good quality paraffin blocks cutting. It is almost impossible to make good cuts without doing the cooling process. By using the cooling plates to cool off the paraffin blocks, it creates a drastic improvement and it makes the cutting a lot easier. These facts speed up the process and helps to save time for the lab operators.

An interesting fact about this process is that the cold wax allows the operator to make thinner sections, which you will get by providing support for harder elements within the tissue specimen. Maybe you are wondering why does cooling the paraffin blocks makes the process easier. Well, it turns out that when a small amount of moisture from the melting ice penetrates the block makes the tissue a lot easier to cut.

Paraffin wax cuts are a very delicate area in a histology lab. Most specialists recommend adjusting the right temperature from the cooling plates, in order to cool the paraffin blocks, so that they do not get any cracks in the cutting process. When a paraffin block is completely cracked, it becomes a useless sample.

The cooling plate model we are presenting to you is the YR440, which is a cryo-plate adopted with a new-type inverter compressor, making the tissue paraffin blocks to cool off quickly. This model has a Teflon plating, which ensures easy cleaning, so that you do not have to worry

about that. We mentioned above that it is safer if you can freely adjust your cooling plate's temperature, and this model provides you with that option. The cooling plate we are offering you has this option available to avoid the tissue wax from not cooling enough or frost splitting. In addition, you can use the YR446 model's cryo-plate separately.

About this model's technical specification, you should know that the temperature setting is RT $\sim -20^{\circ}\text{C}$. It has a time delay's protection requirement. In addition, the plate's dimension is 320 mm x 300 mm. The voltage required to use this cooling plate is AC220V 50Hz AC110V 60Hz. This model's power is 300W. Finally, its overall dimensions are 590 mm x 345 mm x 385 mm (WxDxH) and this cooling plate weights 27Kg.

Product Name : YR449 Water Bath

Product Categories : Water Bath&Slide Dryer

Features:

- ✓ Quick heating, long lifespan and energy saving, due to the use of a new-type heating element;
- ✓ Both actual and preset temperatures are displayed;
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system;
- ✓ Special black surface material characterized by its strong resistance to abrasion and corrosion.



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Tissue Water Bath

Model YR450

Technical Characteristics:

- ✓ Dimensions of bath bowl: 260×220×65mm(W×D×H).
- ✓ Temperature Range: 0 - 99°C.
- ✓ Working Voltage: AC220V±10% 50Hz (standard model), AC110V±10% 60Hz.
- ✓ Power: 400W.
- ✓ Dimensions: 425×350×130mm (W×D×H).
- ✓ Net weight: 8kg.

There are some essential steps in a histology lab. The sectioning process is one of the most important ones, because this procedure has to be very precise and the blocks you are cutting into, must not be cracked in any way. When you begin the sectioning process, the first thing you do is to cool off the paraffin blocks in order to make the right cut. Then you place those blocks in the water bath and set it to the desired temperature, being a fundamental step in the entire procedure.

Water baths are a very common item in any kind of microbiological laboratories. This type of equipment is a container that is capable to hold heated water in order to incubate samples in water in a constant temperature for a long period. Water baths usually has an interface that allows the user to set the right temperature in order to achieve the wanted results. This model is not the exception. Among its uses, you can find warming of reagents, melting of substrates or incubation of cell cultures.

There are some recommendations when it comes to the use of water baths. First, experts do not recommend using the water bath with moisture sensitive or pyrophoric reactions. Second, you have to

constantly monitor the water level and only use distilled water; the reason is that you do not want any salts depositing on the heater. In addition, if your application involves liquids that give off fumes, we recommend you to operate the water bath in a fume hood or in a well-ventilated area. Moreover, you can raise the temperature to 90 °C or higher once a week for half an hour to decontaminate the device. Finally, we also recommend setting the water bath on a steady surface away from flammable materials.

This water bath model YR450, has a working voltage of AC220V±10% 50Hz (standard model), AC110V±10% 60Hz. Its power requirement is 400 W. The bath bowl's dimensions are 260 mm × 220 mm × 65 mm (W×D×H). Remember that you can set the temperature, and in the case of this water bath, the temperature range is 0 to 99 degrees Celsius. Finally, its general dimensions are 425 mm × 350 mm × 130 mm (W×D×H) and its net weight is 8 Kg.

Product Name: YR450 Water Bath.

Product Categories: Water Bath&Slide Dryer.



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Tissue Water Bath

Model YR451

Technical Specifications:

- ✓ Dimensions of bath bowl: 350mm×220mm×45mm
- ✓ Temperature range: 0 - 85°C
- ✓ Temperature Control Precision: ±1°C
- ✓ Working Voltage: AC 220V±10% 50Hz (standard model); AC110V±10% 60Hz
- ✓ Power: 400W
- ✓ Dimensions: 515×420×150mm (W×D×H)
- ✓ Net weight: 9 kg

This model also has a DC low-voltage illuminating system and a removable transparent heating dish, with easy operation and convenient observation. Its new heating mechanism using a new-type high-thermal-conductivity heating element provides even and quick heating. In addition, the roast machine stalls is PID-controlled and it has triple temperature controls. Moreover, this model is long lifespan, safe, reliable and energy saving. Another great feature is that the temperature is precisely and reliably measured by temperature-sensing integrated blocks, and all settings are automatically stored in the system. The surface of the temperature-controlling probes is made with special black material to enable strong resistance to abrasion and corrosion, fast conductivity, and real-time measurement. Finally, it has automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system.

Features:

- ✓ Pure-green digital display for real-time direct
- ✓ monitoring of heating temperature, clear and
- ✓ easy to operate; all parameters including preset
- ✓ temperatures, working temperatures, and
- ✓ wording status are real-time displayed;

- ✓ Temperature is automatically program-controlled by single-chip microprocessors made in USA;
- ✓ This device featured with multiple functions and its easy setting operation can meet the needs of different users as much as possible;
- ✓ DC low-voltage illuminating system and removable transparent heating dish: easy operation and convenient observation;
- ✓ New heating mechanism using a new-type high-thermal-conductivity heating element provides even and quick heating
- ✓ PID-controlled
- ✓ Triple temperature controls
- ✓ Long lifespan, safe, reliable and energy-saving
- ✓ Temperature is precisely and reliably measured by temperature-sensing integrated blocks made in USA, and all settings are automatically stored in the system;
- ✓ The surface of the temperature-controlling probes is made with special black material to enable strong resistance to abrasion and corrosion, fast conductivity, and real-time measurement;
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system.



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Tissue Water Bath

Model YR452

Technical Specifications:

- ✓ Temperature Range: RT - 75°C
- ✓ Temperature Control Precision: $\pm 1^\circ\text{C}$
- ✓ Port for real-time online temperature recording (optional)
- ✓ Dimensions of Water Bath Dish: 350×220×45mm(W×D×H)
- ✓ Dimensions of Drying Station: 330mm×90mm
- ✓ Working Voltage: AC220V $\pm 10\%$ 50Hz (standard model); AC110V $\pm 10\%$ 60Hz
- ✓ Power: 500W
- ✓ Dimensions: 515×420×160mm (W×D×H)
- ✓ Weight: 9kg

Features:

- ✓ Pure-green digital display for real-time direct monitoring of heating temperature, clear and easy to operate; all parameters including preset temperatures, working temperatures, and working status are real-time displayed.
- ✓ Temperature is automatically program-controlled by single-chip microprocessors.
- ✓ This device featured with multiple functions and its easy setting operation can meet the needs of different users as much as possible.
- ✓ DC low-voltage illuminating system and removable transparent heating dish: easy operation and convenient observation.
- ✓ New heating mechanism using a new-type high-thermal-conductivity heating element provides even and quick heating.
- ✓ PID-controlled.
- ✓ Triple temperature controls.
- ✓ long lifespan, safe, reliable and energy-saving.
- ✓ Temperature is precisely and reliably measured by temperature-sensing integrated blocks, and all settings are automatically stored in the system.
- ✓ The surface of the temperature-controlling probes is made with special black material to enable strong resistance to abrasion and corrosion, fast conductivity, and real-time measurement.
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system.
- ✓ Temperatures for floating and drying slides are individually controlled.

This model also has a DC low-voltage illuminating system and a removable transparent heating dish, with easy operation and convenient observation. Its new heating mechanism using a new-type high-thermal-conductivity heating element provides even and quick heating. In addition, the floatation workstation is PID-controlled and it has triple temperature controls. Moreover, this model is long lifespan, safe, reliable and energy saving. Another great feature is that the temperature is precisely and reliably measured by temperature-sensing integrated blocks, and all settings are automatically stored in the system. The surface of the temperature-controlling probes is made with special black material to enable strong resistance to abrasion and corrosion, fast conductivity, and real-time measurement. Finally, it has automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system.



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Flotation Water Bath (Water Bath/slide dryer)

Model YR457

Features

- ✓ Pure-green digital screen for real-time monitoring of heating temperature, direct and clear, easy to operate; all parameters including preset temperatures, working temperatures, and working status are real-time displayed;
- ✓ Temperature is automatically program-controlled by single-chip microprocessors
- ✓ This device features multiple functions and its easy setting operation can meet the needs of different users;
- ✓ DC low-voltage illuminating system and removable transparent heating dish: easy operation and convenient observation;
- ✓ New heating mechanism using a new-type high-thermal-conductivity heating element provides even and quick heating: PID-controlled, Triple temperature controls, long lifespan, safe, reliable and energy-saving
- ✓ Temperature is precisely measured by temperature-sensing integrated blocks made in USA, and all settings are automatically stored in the system;
- ✓ Special temperature-control and monitoring system characterized by strong resistance to abrasion and corrosion to ensure temperature precise;
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system;
- ✓ Temperatures for floating and drying slides are individually controlled

Technical Characteristics:

- ✓ Temperature range of water bath: RT - 70°C; automatically maintained
- ✓ Temperature range of slide dryer: RT - 100°C; automatically maintained
- ✓ Automatic memory and restoration functions: After startup, all preset temperature data are automatically stored in the system.
- ✓ Temperature Control Precision: $\pm 2^{\circ}\text{C}$
- ✓ Dimensions of water bath dish: 210×170×60mm(W×D×H)
- ✓ Dimensions of drying station(50pcs slides): 250×108mm(W×D×H)
- ✓ Working Voltage: AC 220V $\pm 10\%$ 50Hz (standard model); AC110V $\pm 10\%$ 60Hz
- ✓ Power: 400W
- ✓ Dimensions: 460×310×135 mm (W×D×H)
- ✓ Net weight: 6kg



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refrigerator is a device that is one of the most common pieces of equipment used in laboratories. It is a controlled environment (refrigerated space), various fluids and substances

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What is the importance of the laboratory refrigerator?

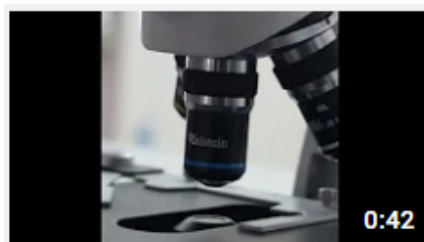
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